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Montana Bird Distribution

Revised by: *Dwight Bergeron Cedron Jones David L. Genter Daniel Sullivan*

Fourth Edition January 1992

> Montana Natural Heritage Program Special Publication No. 2

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Montana Natural Heritage Program

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P. D. SKAAR'S

MONTANA BIRD DISTRIBUTION

Fourth Edition

Revised By:

Dwight Bergeron 800 Glendale Helena, MT 59601

Cedron Jones 940 Wilder Avenue Helena, MT 59601

David L. Genter 1515 East Sixth Avenue Helena, MT 59620

Daniel Sullivan 851 Silverette Helena, MT 59601

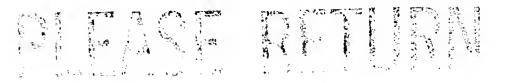
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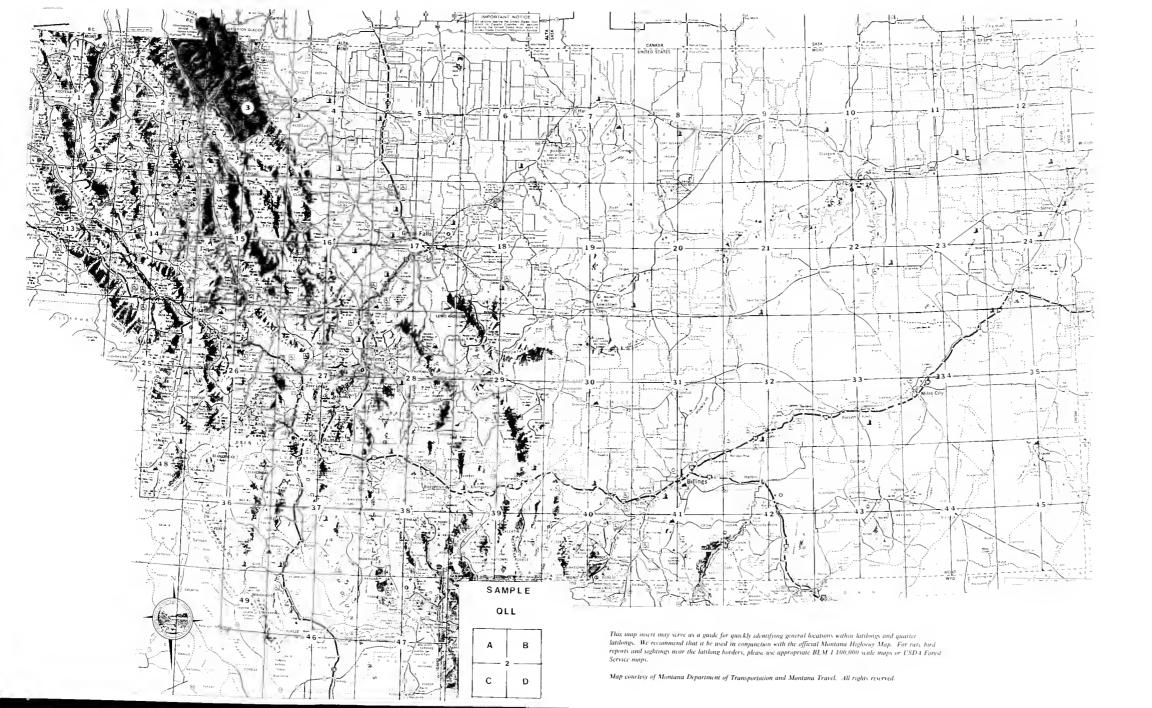
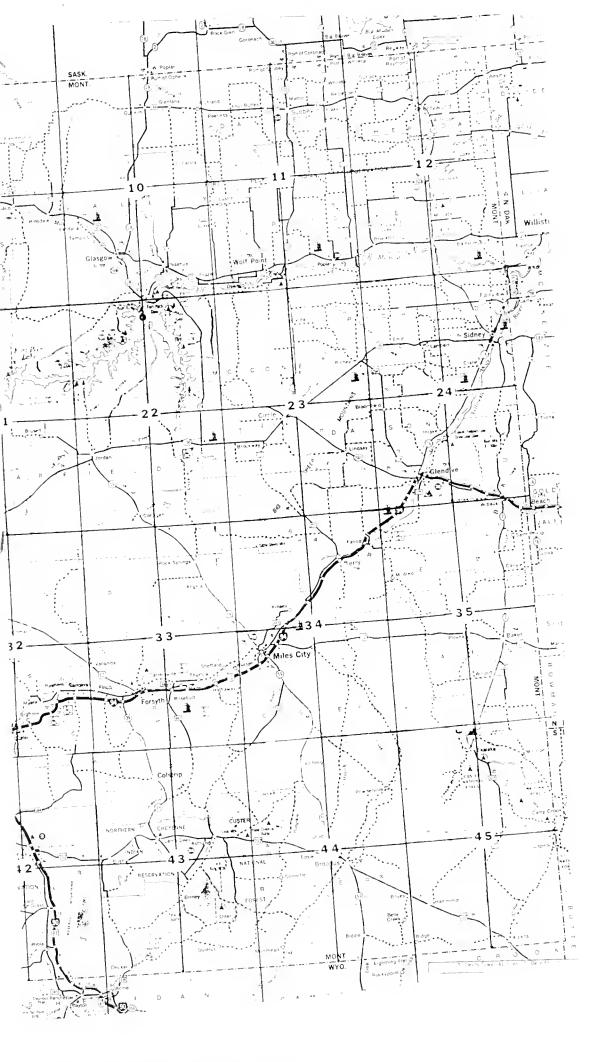


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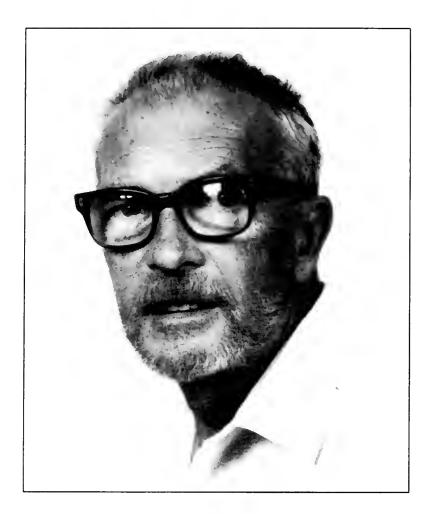
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BIOGRAPHICAL NOTE

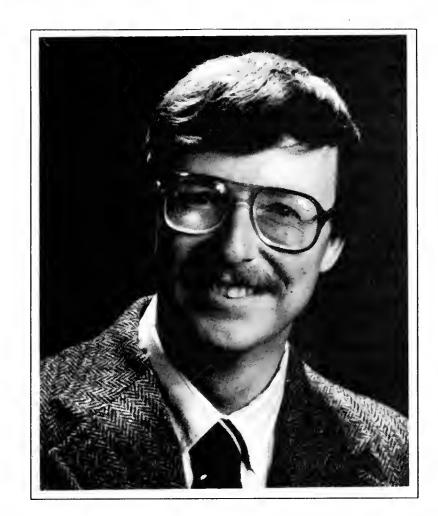




No one person has done more to further the study of Montana birds than Dave Skaar (1923-1983). Dr. Skaar came to Montana in 1957 to join the faculty of Montana State College (now MSU). He was widely respected as a microbial geneticist at that time, and during his career he wrote extensively in that field. He also founded and directed the Genetics Institute at MSU, and served for four years as editor of the Proceedings of the Montana Academy of Sciences. Dave's involvement in the study of Montana bird distribution made him well-known and respected throughout the state. His enthusiasm was contagious, and his patience and modesty were exemplary. He was not one to discourage or belittle the amateur and his words were always encouraging, never demeaning.

Dave pioneered the "latilong" concept in distributional studies. His definitive *Birds of the Bozeman Latilong* was published in 1969 and was a model regional bird account. In 1975, Dave published the first edition of *Montana Bird Distribution*. The impact of this book was tremendous. It motivated and mobilized amateurs and professionals across the state, and resulted in careful ornithological scrutiny of vast areas of Montana that had never before been studied. The Fourth Edition of *Montana Bird Distribution* is one of Dave's ongoing legacies. Future editions will continue as a direct result of Dr. Skaar's inspiration and visionary efforts.

DEDICATION



Larry Steven Thompson

Larry Thompson (1949-1988) was born in Kalispell and dedicated his life to the exploration and study of Montana's rich natural heritage. Larry attended Montana State University and received a Masters Degree from Washington State University, completing a thesis on the biogeographical relationships of bird populations found on Montana's prairie mountain ranges. For 12 years, beginning in the mid-1970s, Larry worked at the Montana Department of Natural Resources and Conservation, involved in the oversight of facility siting. In 1985, Larry became the first manager of the Natural Resources.

Accomplished as he was in his work, it seemed to be his time away from work that touched the most people. He wrote extensively, publishing scientific and popular articles, including one of the Montana Geographic Series, *Montana Explorers*. He co-authored the Third Edition of *Montana Bird Distribution*. He was a natural musician and a gifted artist. (Some of his drawings illustrate this edition.) Above all, Larry was a naturalist. He was interested in, curious about and saw beauty in everything -- big, small, obscure, animal, plant or rock -- it didn't matter. No one could be around Larry without seeing the world differently and having a new appreciation for things commonly passed by. As a person and a naturalist, Larry's contributions to the quality of life and the knowledge and conservation of Montana's natural resources were remarkable. We respectfully, and with great affection, dedicate this edition to him.

PREFACE

The Fourth Edition of P. D. Skaar's *Montana Bird Distribution* is the latest in a series of contributions to Montana ornithology. It was Dr. Skaar who pioneered the use of latilongs as a mapping unit for bird distribution and biogeographical studies. Since the publication of Skaar's first edition (1975), several other states and vertebrate groups have been mapped using the latilong system. In this edition we have begun recording bird distribution in quarter latilong units in an attempt to more accurately display each species' spatial distribution.

This edition begins an effort to provide a visual display of current bird distribution in Montana. It is a transition from previous editions, where all distribution data from the earliest recorded sightings to the most current were represented, to subsequent editions, where only data since the last edition will be represented. We believe this will document changes in bird distribution, drawing attention to contractions or expansions which, we hope, will result in efforts to determine the cause for these changes.

Although historical data will not be displayed in future editions, these data will not be lost. Presently, all data represented in previous editions as well as this edition have been entered into a computer database. These records contain more data than is represented by the symbol on the distribution maps and often include multiple sightings per latilong. The bird distribution database contains over 25,000 individual records. It is housed and maintained at the Natural Heritage Program in Helena and will be updated continuously as additional data are received. The database will be available for use by anyone interested in the distribution of Montana birds.

We plan to publish the Fifth Edition in 1995 with subsequent editions every 5 years thereafter. The success of this effort, however, will depend on the dedication of the birding public, amateur and professional, in submitting observations. We are no longer interested **only** in new latilong records and rare sightings. It is critical that contributors record and report sightings on **all species** for the appropriate quarter latilongs during each revision period.

These changes are not cast in concrete. We want to know what you think of them, and so we have included a Response Form at the back of the book. Please tear it out, fill it in and return it to us.

A few people, with some time and a little money, compiled this publication. In a greater sense, this is a product of hundreds, perhaps thousands, of individuals who made an effort and took the time to write down their observations and report them. These are people who see the beauty, grace, and diversity of birds, but understand that the conservation of bird populations and the environment upon which they depend requires awareness and knowledge. This publication is a tribute to those contributors and our thanks are extended to them.

Helena, Mont. January, 1992

ACKNOWLEDGEMENTS

Dozens of contributors submitted the thousands of recent records to make this update possible. We are most grateful to those contributors who provided recent sightings (see p.108). Centrum data are from the Third Edition. The U.S. Fish and Wildlife Service's Breeding Bird Survey and the databases of the Montana Natural Heritage Program provided additional sources of information.

A steering committee was responsible for the overall production and fundraising for this Fourth Edition. Members include Janet Ellis, David Genter, George Holton, Cedron Jones, Deborah Richie, and Dan Sullivan, all of Helena. Dwight Bergeron was employed to compile data and assist in production. Special thanks to Dwight, Cedron, and Dan for their long and dedicated efforts in data entry, troubleshooting, and keeping things moving.

A verification committee was established to review rare bird sightings and provide advice and comment on a number of issues in the production of this edition. The verification committee is comprised of Chuck Carlson (Chair, Ft. Peck), Helen Carlson (Billings), Dan Casey (Kalispell), Dr. Bob Eng (Bozeman), Bebe FitzGerald (Billings), Harriet Marble (Chester), Terry McEneaney (Gardiner), Fritz Prellwitz (Malta), and Dr. Phil Wright (Missoula). We thank them for their continuing efforts and dedication to a better understanding of Montana birds.

Jim Senkler ably provided us with the design and programming of the database. We thank the Natural Resource Information System and the Montana State Library for staff time and computers. Don Skaar and Dennis Flath provided access to many post-Third Edition records and commented on the draft. Dan Sullivan obtained and compiled the data from the Breeding Bird Surveys. Margaret Beer provided technical support and tolerance for Dwight and Cedron to be on her computers and in her space for much of the past 6 months. Several individuals provided helpful suggestions and advice in planning and review of the project including Kristi DuBois, Shannon Heath, Sue Jackson, Cary Lund, and Don Stoecker. We thank them all.

Financial support for the project came with the cooperation of the following individuals and organizations: Montana Department of Fish, Wildlife and Parks (Dennis Flath & Deborah Richie), USDI Bureau of Land Management (Bob Haburchak), USDA Forest Service (Alan Christensen and Bill Ruediger), Stillwater Mining (Bruce Gilbert), Western Energy Co. (Bruce Waage), WESTECH (Dean Culwell and Pat Farmer), Last Chance Audubon (Helena), Yellowstone Valley Audubon (Billings), Bitterroot Audubon (Hamilton), Five Valleys Audubon (Missoula), William and Lee Ballard, the Montana Audubon Council, and Michael T. Schwitters.

Introduction

Birders in Montana have recorded the presence of 357 species over the past four decades. There are 259 species that regularly breed in the state. The total number of wintering species is 177. An additional 12 species are of hypothetical occurrence (see p.112), including several species that are expanding their ranges and will likely make their way into a future edition of the *Montana Bird Distribution*.

Physiography of Montana

Montana is characterized by 3 physiographic divisions: the Rocky Mountains of the western third, dominated by high rugged mountain ranges dissected with broad valleys; the central plains where island mountain ranges rise out of the grassy plains; and the eastern half in the Northern Great Plains with rolling grass-covered plains carved by major rivers.

Vastly different climate and vegetation occur in Montana. Continental air masses with cold, dry winters and hot summers dominate most of the state. Northwest Montana is more influenced by Pacific moist air with moderate temperatures. The plains range between -40°F(-40°C) and over 100°F (38°C), with annual precipitation between 8 inches (20 cm) and 15 inches (40 cm). Droughts can be frequent and severe. The Rocky Mountains are somewhat cooler and more moist. Annual precipitation generally increases with elevation, much of it as snow.

These factors, combined with Montana's geographic position among the Great Basin, Great Plains, and Northern Rockies, contribute to the great diversity and abundance of birds in our state. Land-use practices have also changed the abundance and distribution of our avifauna. Some species (such as the starling) tend to thrive in human-altered landscapes, expanding their range and numbers. Other species (such as the piping plover) require specialized natural habitat and may become increasingly rare or threatened by habitat changes or encroachment of competitors.

As we view the distribution of Montana birds over time, we will undoubtedly witness the introduction and expansion of some species and the continued decline of others, particularly those that are more specialized. Montana is a large, sparsely-populated state. It is difficult to conceive of high-intensity efforts to atlas birds as in other states. Until the financial and human resources become available, the application of coarsescale distribution units such as latilongs will continue to be the most feasible. By refining our efforts to the quarter latilong, we will be recording the dynamic phenomena of statewide bird distribution to the best of our current abilities. As additional data are recorded by quarter latilong, we expect this effort to more effectively project species' distribution.

Latilongs as Mapping Units

Latilongs are rectangular units formed by successive parallels of latitude and meridians of longitude, each at one degree intervals (see map on back cover). They form a grid pattern across Montana that includes all or parts of 49 latilongs. The average dimensions of each latilong are 47 miles (76 km) wide and 69 miles (111 km)

long. This represents an average area of 3200 sq. miles (8436 sq. km) per latilong. Latilongs along the Canadian border are 5.4 percent smaller than those along the Wyoming border.

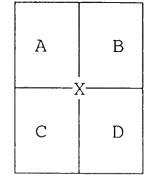
These nearly-uniform units form a global grid across middle latitudes that provide conformity between states and nations. The U.S. Fish and Wildlife Service's Breeding Bird Survey is based on this latilong grid. So successful was Skaar's early use of the latilong as a biogeographic aid (Skaar 1969, 1980), that several neighboring states have used latilongs for mapping bird distribution (Stephens and Sturts 1991; Kingery 1987; Oakleaf et al. 1982) and other vertebrate groups (Thompson 1982; Findholt et al. 1981).

The map on the back cover depicts the 49 latilongs and 185 quarter latilongs in Montana. This includes L48 and L49 which cover small portions of southwest Montana previously excluded from the first three editions. Also enclosed in this edition is a latilong map that has been superimposed over a state highway map. This is an extra aid that will permit accurate location of the quarter latilong (QLL) where an observation is made. For finer resolution when sightings are near boundaries and for reporting rare birds, please refer to the Forest Service, BLM, and USGS topographic maps to accurately determine the correct QLL location.

Quarter Latilongs

The most obvious change from the Third Edition is the use of quarter latilongs (QLL). QLL units are created by dividing each latilong unit into four quarters at the 30 minute degree mark between each degree of latitude and longitude. Each QLL cell retains the number of the latilong cell with the addition of a letter (A,B,C, or D) ordered left to right (Fig. 1). Thus, latilong 25 is now broken into 4 QLLs: 25A, 25B, 25C, 25D (see p.7). Each of the latilongs has the Third Edition data listed in the center (Example "X" Fig. 1). All of the new (post-Third Edition) data are presented in the quarter latilong positions.

Figure 1. Quarter Latilong Letter Code Sequence.



We recognize that the maps displayed in this edition are "busy" and may be confusing at first glance. However, a sufficient amount of new data did not exist to adequately represent the distribution of most birds in Montana. The Third Edition data are retained in the center of the latilong so that there is continuity between the old and new formats. In the Fifth Edition (1995) only the quarter latilong values, based on data submitted since Third Edition data, will be displayed. In the past, contributors have focused on the rare species and new latilong records. Conversion to quarter latilongs and a commitment to continually update *Montana Bird Distribution* (MBD) requires a fundamental change in the way Montana birders list and submit their observations. For the effort to succeed, all species, common and rare alike, must be recorded for each QLL during each revision period.

Taxonomic changes and subspecies

All species names and taxonomic revisions follow the American Ornithologist's Union (AOU) Checklist of North American Birds, 6th edition (AOU 1983), as amended by the 35th through the 38th supplements (AOU 1985, 1987, 1989, 1991). The AOU has made several taxonomic revisions since the MBD Third Edition. These changes are reflected in the species lists and maps, where appropriate.

In consultation with the verification committee, we identified 5 species for which enhanced data collection for subspecies distribution is warranted. In some cases this is to provide better information for future taxonomic assignments. In others, it is simply of interest to maintain the geographic distinctions between taxa. The species names and maps do not display these subspecific ranges, but we are recording and maintaining records in the databases at the subspecific level. We request that contributors submit records for these species at the subspecies level, whenever possible.

Species for which information is kept on subspecies, races, or forms include:

Northern Flicker	Northern Oriole
Red-shafted Flicker	Bullock's Oriole
Yellow-shafted Flicker	Baltimore Oriole
Yellow-rumped Warbler	Rosy Finch
Audubon's Warbler	Gray-crowned Rosy Finch
Myrtle Warbler	Gray-headed (Hepburns's) Rosy Finch
Dark-eyed Junco	Black Rosy Finch
Slate-colored Junco	
Montana ("Oregon Junco")	
Pink-sided Junco	
White-winged Junco	
Gray-headed Junco	

Other Changes

The first arrival dates for species were not included. There was no additional information to update the Third Edition. We have the capacity to record and manage information on arrival and departure dates for all species. We need several contributors to record and submit this information from various regions in the state. Please contact the editors at the Montana Natural Heritage Program for further information.

We have eliminated the "S" and "s" symbols for species documented by a specimen or photograph. Specimen data and photograph records will be entered into the database. Files for photographs, slides, or copies have been established. Dr. P. L. Wright of the verification committee will compile a list of specimens, including the vertebrate collections where they are stored. This list will be available and updated as additions to the collections occur.

The symbols "?" (questionable sightings) and "I" (uncertain latilong location) found in the Third Edition are not used in this edition. The steering and verification committees will not accept records in these categories so the designations are dropped from this and future editions.

Evaluation of Records

A verification committee was established in June 1991. The committee established rules for conducting business and evaluating records. Criteria for suitable documentation were reviewed and a voting procedure established. The verification committee is responsible for accepting records of rare birds (less than 20 sightings) and sightings of birds outside their normal range. Contributors with observations in these categories are asked to submit a rare bird report describing their sighting (Appendix E). No rare or out-of-range records will be accepted without committee approval.

Species with Special Status

Any special status for each species is indicated by the letters and symbols which follow the common and scientific name.

n = Rare birds (fewer than 20 verified sightings) are identified by the letter "n" followed by the number of sightings. The most recent sighting is listed with location and date.

TES We have identified those species that are considered threatened, endangered, or sensitive in Montana or throughout their range by the symbol **TES**. Species assigned to this category are any one of the following: federally recognized endangered, threatened, or candidate species for listing under the Endangered Species Act; U.S. Forest Service sensitive species, as assigned by the Regional Forester; or species of special concern, as recognized by the Montana Natural Heritage Program and Montana Department of Fish, Wildlife, and Parks. A list of species in each of these categories is found in Appendix A. It is important to note that all of these lists are subject to change. For current information, contact one of the local offices of the US Fish & Wildlife Service; Montana Department of Fish, Wildlife, and Parks; US Forest Service; or Montana Natural Heritage Program.

SI Another group of species was identified as being poorly known in the state or as having unique breeding habits that warrant further study. There is a need for additional information on the distribution, breeding habits, and status of these "species needing additional information," or SI.

Contributors submitting sightings of TES and SI species are requested to submit detailed information. This information should include the date of observation, specific location, number of individuals, and details on nesting, if observed. This is an

important aspect of maintaining statewide information on species that are either more vulnerable, less visible, or experiencing range or population decline. Rare bird sightings are requested to be submitted on the rare bird report form (Appendix E).

Neotropical Migratory Species

There are many birds that breed or migrate through Montana and spend their winter in the "neotropics" (Central and South America). Recent evidence suggests that populations of some of these bird species may be declining. Thus, in 1990 the National Fish and Wildlife Foundation proposed a major initiative for the conservation of migratory land birds that breed in North America and winter in neotropical countries. Several major federal land management agencies, conservation groups, state fish and wildlife agencies, and academics have joined to develop the Neotropical Migratory Bird Program. This collaborative effort attempts to determine the causes for declines in our migratory bird populations. Part of this effort involves identification of species vulnerable to declines from either of the two primary causes suggested: fragmentation of breeding ground habitat in the U.S. and Canada, and loss of wintering habitat in Mexico, Central and South America, and the Caribbean.

A major initiative for research, monitoring, and management of migratory landbirds, has been established at the national and local levels. We have listed the Neotropical Migratory Bird species known to occur in Montana (Appendix B). The species included in the program are both long- and short-distance migrants. Wintering zones for species are identified and nicely handled in the "Conservation" subheading of <u>The Birder's Handbook</u> (Ehrlich et al. 1988). Additional information and activities are being developed by the local Montana Steering Committee of the Neotropical Migratory Bird Program, including a handbook, monitoring activities, study of habitat relationships, and international partnerships. For additional information on local activities, contact the Neotropical Migratory Bird Program Coordinator, Wildlife and Fisheries, U.S. Forest Service Northern Region, P.O. Box 7669, Missoula, MT 59807.

How to read maps and interpret symbols

Each species is listed by common and scientific name in taxonomic order. Order and family names are inserted to aid in grouping the species. A common name is placed in the top outside margin of each right hand page for the predominant group of species found on that page.

Information on the species' status is provided on the lines beneath some of the names. Symbols and their definitions are explained below. Further information is provided on page 4. See Appendix A (p.109) for a list of species.

- n= Number of documented records (for species with fewer than 20 verified records).
- TES Species considered threatened, endangered, or sensitive.
- SI Additional information requested for these species.
- introduced Not native to North America or a native North American species transplanted to Montana.

The distribution maps are shaped in the general outline of Montana. Each rectangular block represents one latilong. Each symbol within the block represents the highest documented status for the species in each latilong or quarter latilong. All of the Third Edition data are presented in the center of the latilong block. The quarter latilong data are presented in the corners of the latilong block and represent observations submitted since 1985. The symbols used are as follows (see p.113, Appendix D, for complete definitions):

- B Direct evidence of breeding (nest or dependent young observed).
- b Indirect or circumstantial evidence of breeding.
- t Observed, no evidence of breeding.
- Absent or no observations submitted.

The winter distribution of species is recorded between December 15 and February 15. Winter maps display data in latilong blocks only. However, post-Third Edition data are recorded by QLL in the database. The symbols and their definitions are:

- W Overwintering. Regular sightings during the winter period.
- w Overwintering not yet documented, but species observed at least once between Dec. 15 and Feb. 15.
- Absent or no verified winter records submitted.

Example: In the map below, Third Edition data show a verified sighting of an American Flamingo in Latilong 25 by the presence of a "t" in the center of latilong block number 25. There is a "t" in the "A" quarter of the latilong block meaning that a sighting also occurred since 1985. Only 2 sightings have been recorded (n=2). The most recent sighting was in 1988 near Florence along the Bitterroot River. As designated by the symbol, "SI", more detailed information is requested if there are further sightings. In this case, because there are fewer than 20 sightings, verification by the verification committee is required before the report will be accepted. A rare bird report should be submitted. The winter map lists no winter (Dec 15 - Feb 15) sightings.

American Flamingo

Gardenus effigis QLL 25A; April 1, 1988 Bitterroot River, Florence n=2; SI

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Submission of New Records

Contributors are asked to submit records in one of two formats.

1. Quarter Latilong Bird Lists: This is a list of bird species observed within a quarter latilong (QLL). If there were several birding trips within a single QLL the sightings from each trip should be summarized into a single master list for that QLL. For each species recorded, list the highest status observed ("B" greater than "b" greater than "t") and then the most recent observation date. Make one list per QLL in taxonomic (Field Guide) order. For full-page form, see p.115.

In areas where you live or that you frequent each year we would like a single master QLL list annually. If the status is listed as "B", briefly state the criteria used (i.e., nest, dependent young, etc.). A brief location description is requested (i.e., Bean Lake, Long Pine Hills, Chinook, Hwy 200, 10 miles west of Simms, etc.).

2. Single Observations (rare, out of range, and SI species)

These sightings require thorough, detailed descriptions. It will be best to use the Rare Bird Report Form found in Appendix E, however, any report format with sufficient information will do. Fill in the information only for items that you actually observed. Do not fill in items you felt you should have seen but did not. It is the exception where all possible criteria are seen. Complete the report as soon as possible following the observation while your impressions are fresh. Please submit any drawings or photographs; they will become part of the permanent record unless return is requested. All rare and out-of-range sightings are submitted to the verification committee. They can only judge your sighting based on your report. "It looked just like the picture in the book" won't pass.

Please submit individual records and individual QLL lists as soon after the observations as possible. For QLLs that you visit more than once, send in a master QLL list annually. New records will be added to the Montana Bird Distribution database on a regular schedule. This will allow for periodic updates and queries on species or selected geographic areas. It will also greatly facilitate producing the next edition.

We plan development of a computer software program that will permit data entry of field sightings by observers with access to personal computers. This will permit observers to send in their observations via diskette. Use of this method of recordkeeping will significantly reduce data entry time at the central database. We intend to design the program so that observers will be able to access and display their own data. All observers with access to personal computers are encouraged to use this method when it becomes available.

Mail all records to:

Montana Bird Distribution Update Montana Natural Heritage Program 1515 East Sixth Avenue Helena, MT 59620

GAVIIFORMES 🔳 Gaviidae

Loons

Red-throated Loon

Gavia stellata QLL 10D; May, 1991; Ft. Peck n=7

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Pacific Loon

Gavia pacifica

(formerly combined with Arctic Loon) LL 3; Sept. 25, 1976; Lake McDonald n=2

Common Loon

Gavia immer TES

Yellow-billed Loon

Gavia adamsii QLL 17D; Jan. 5, 1987; Giant Springs, Great Falls n=1

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PODICIPEDIFORMES Podicipedidae

Pied-billed Grebe Podilymbus podiceps	В	B b	b b B	B b	В	B b	В	b B	B B	B t	В	в
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Horned Grebe		P	t b	_ _		+	h			D		

Horned Grebe Podiceps auritus

www----wW--w--------------- -

Red-necked Grebe Podiceps grisegena

Www------w--------------- -

Eared Grebe

-WW-------w--w------------WW-----

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Podiceps nigricollis

В	B t	B B	b	-	t	b	t	В	B t	t	В
t t	B t	b	b B bt	В	-	t	ť	t	t t	t	-
	t	t t	t	t	t	t	t	b	t	t	đ
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t	b B b	B B bt	tB B bB	t	-	-	-	-	t -	-	-
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t	B b	B B	B B	В	Ъ	В	В	B t	t B	В	t t
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		B b	b	b b	t t	В	t	-	t	В	В
			В	B B B							

Western Grebe Aechmophorus occidentalis

	B t	B b	t t t	В	t t	t t	t	b	В	t t	-	В
	b	b B b	Ъ	B B	t	t	Ь	В	Ь	t t	t	t
		t	t t	t t	t B t t	B t t	t	t	b	-	t	b t
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Cla	rk's	Grebe	

Aechmophorus clarkii (formerly combined with Western Grebe) QLL 38A; Aug., 1991; Harrison Lake n=16

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■ PELECANIFORMES ■ Pelecanidae

American White Pelican

Pelecanus erythrorhynchos TES

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Phalacrocoracidae

Double-crested Cormorant

Phalacrocorax auritus
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	B t B	-	t t	t B B B	t t	t	t t	t B B	В	В	t t
-		-	В	B t	t t	в Ь	t B B	t	B B	t	B t
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CICONIIFORMES Ardeidae

American Bittern

Botaurus lentiginosus

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Least Bittern

Ixobrychus exilis LL 10; June 3, 1976; Ft. Peck n=3

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Great Blue Heron

Ardea herodias SI

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	B B B	t B	tt B BB	BB BB	B B b	В	B B t	B B B	B B B	B B B	В
	В	t t b	BB B b	B t B	tt B Bt	t B B t	В В В	t B	t B tt	В	В
			b B	B B B							

Great Egret Casmerodius albus

QLL 25B; June 4, 1987; Lee Metcalf NWR n=18

Snowy Egret Egretta thula

Little Blue Heron

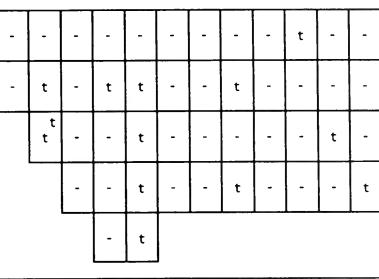
Egretta caerulea

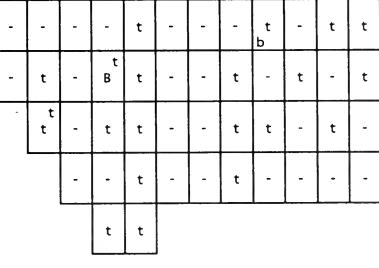
LL 8; July 28, 1983; North of the Little Rocky Mountains n=3

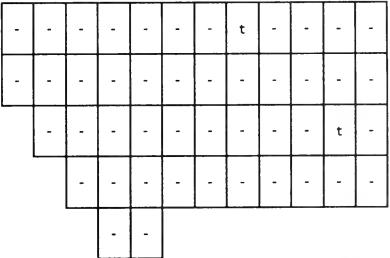
Cattle Egret

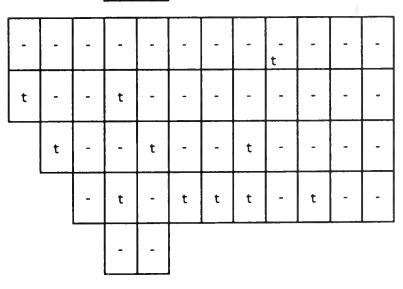
Bubulcus ibis QLL 9C; June 29, 1988; near Bowdoin NWR n=13

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Green-backed Heron

Butorides striatus

QLL 17B; May 22, 1985; Benton Lake NWR QLL 9C; May 23, 1985; Bowdoin NWR n=9

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Black-crowned Night-heron

Nycticorax nycticorax SI

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			b	B B							

Yellow-crowned Night-heron

Nyctanassa violaceus LL 29; Sept. 26, 1976; Cottonwood Reservoir n=2

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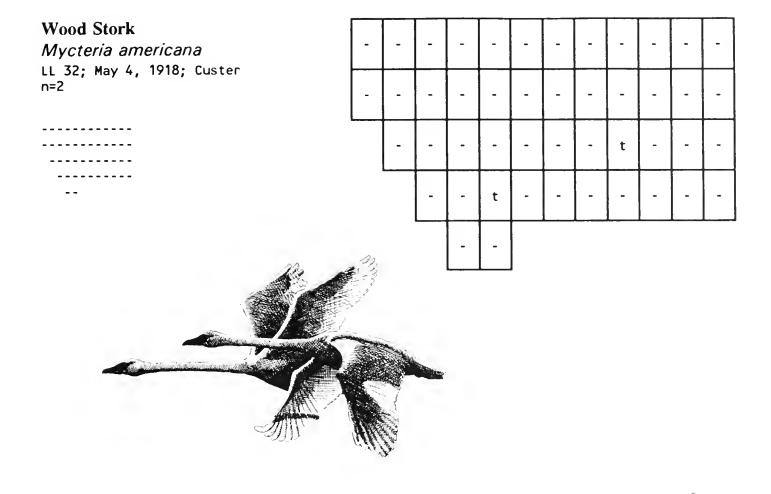
Threskiornithidae

White-faced Ibis

Plegadis chihi TES

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Swans



■ ANSERIFORMES ■ Anatidae

Tundra Swan

Cygnus columbianus

Trumpeter Swan

Cygnus buccinator TES

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		-	t	t	t	t	t	- t	t	-	-
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			B B	B B B							

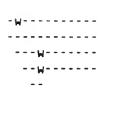
Mute Swan

Cygnus olor

SI (introduced)

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Greater	White-fronted	Goose
Anser a	lbifrons	



Snow Goose Chen caerulescens

Ross' Goose Chen rossii

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Brant

Branta bernicla LL 33; No location n=7

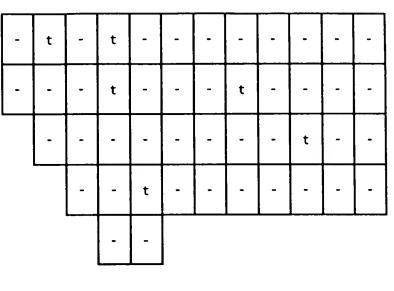
Canada Goose Branta canadensis

Wood Duck

Aix sponsa

Green-winged Teal Anas crecca

WW-----W---WW-WWWW-----WWWWW--------WW-W----WW



B B B b	B B B	tB B bB	ь В	b B B	tt B bt	в b	B B b B	BB B B	B B B B	В	В
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	t B B	B B	bb B tB	b B B B	B B	B t	B t	В	B b	b B	В
		t b t	b B	BB B t	B B B	b B	B B	в	B	b B	в b b
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b	t B t	b B B	B B b b	B B	ь ь	В	B b	Ь	t B	B b	В
	B B	В	b B t	t B t	b	b	В	t	Ь	Ъ	B b
		t t b	В	b B	B b B	В	В	t	t	В	b
			b	B B B							

American Black Duck

Anas rubripes

----W--W---------W-----

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Mallard Anas platyrhynchos

WWWWWWWWWW WWWWWWWWW -WWWWWWWW WW

Northern Pintail Anas acuta

WW-----WW---W-wwww----WWWW------WWW-WW----W

Garganey

Anas querquedula QLL 14D; April 4, 1991; Charlo n=2

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b		В	В	В	В	В	В	В	В	В	В	В
		tЬ	ЬB	ΒВ				b	b	b	b	b
		t	ΒB	bВ	b			В	b		b	
		В	В	В	В	В	В	В	В	В	В	В
		В		bВ	Βt	tΒ	t t	tΒ		b		b
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Blue-winged Teal Anas discors

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Cinnamon Teal Anas cyanoptera

. -w----w--W----------- -

Northern Shoveler Anas clypeata

ww-----W----w--W-------Ww-w----- W

Gadwall Anas strepera

WW-----ww--Ww--W-w----W--W-------WW-WW----W

		В	b	b	b b		В	ΒB	В		b
В	В	b	В	b	В	В	В	В	В	В	В
b	В	В	В	b	b	b	В	ΒB	Βt		
	В	В	bВ	В			В	ΒB	b b		
t	В	В	В	В	b	В	В	В	В	В	В
	b	t	bЬ				b		b	b	b
		b	bb	b			В	b			
	В	В	В	В	b	b	В	В	В	В	В
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		t t		b			b	b		b	
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Eurasian Wigeon

Anas penelope

----W------

American Wigeon

Anas americana

Www-w---Ww--Ww--wW-----WW-W----ww---WW-wW----W

Canvasback Aythya valisineria

Redhead Aythya americana

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			b B	B B B							

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Ring-necked Duck

Aythya collaris

Www-----Ww--w-----W--w------w------w

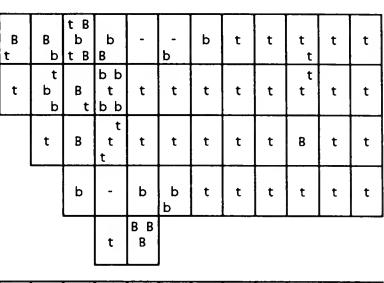
Greater Scaup

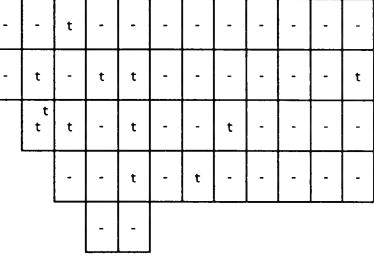
Aythya marila

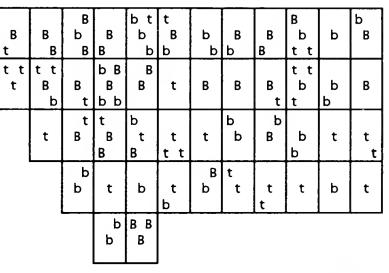
Lesser Scaup Aythya affinis

Harlequin Duck

Histrionicus histrionicus TES







B B b	B B b	B b B B B	b B	-	-	-	-	- t	t	-	-
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Oldsquaw

Oldsquaw Clangula hyemalis	-	t t	-	-	-	-	-	-	t	- t	-	t
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Black Scoter

Melanitta nigra LL 17; Nov. 2 1979; Benton Lake n=4

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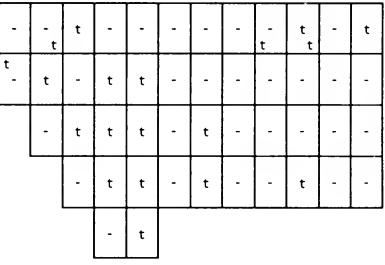
Surf Scoter Melanitta perspicillata

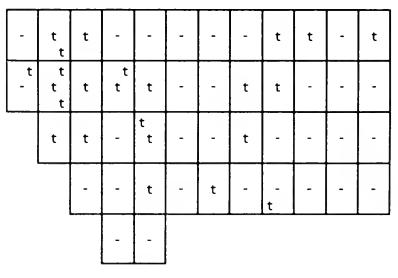
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White-winged Scoter Melanitta fusca

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Common Goldeneye Bucephala clangula

- MMMMMM - MM-M MMMMM- MM-M MMMM- - - MMMM - MMMMMMM - -MM

Barrow's Goldeneye Bucephala islandica

WWw-W---wW---W--W-w-----WW-W---------WW-WWW-wW

Bufflehead

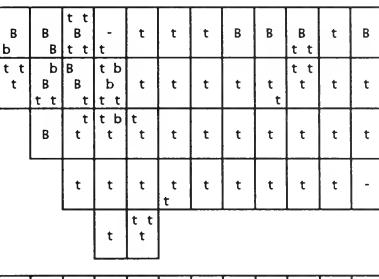
Bucephala albeola

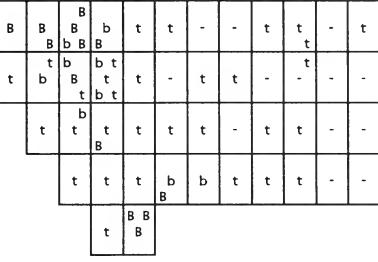
WW------WW--W-W-----W--W-------WW-W-----WW

Hooded Merganser

Lophodytes cucullatus

WWw-----w---Ww--W-w-----WW-w--------wW-w-----W





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В	B B	t B	- t	t	-	-	t	t	t t	-	t
t	В	B t	t t t	t	-	t	t	t	t -	t	t
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Common Merganser Mergus merganser

WWw-WW--WW--WWw-WWW--w-w WW-W---WWWW --WWWWWW----

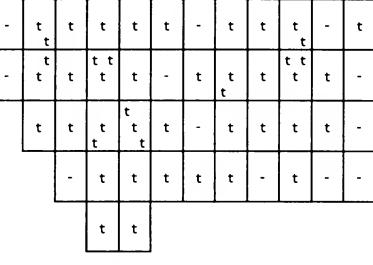
Red-breasted Merganser *Mergus serrator*

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WW	
WW-W	

Ruddy Duck Oxyura jamaicensis

Ww------W--W----w--------WW------

B B b b	tB B B	bB B BB	B B	b B	в	t	t	в	B B	Ь	t
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	BB	ЬВ В	tb B t	b B B t t	В	В	t	В	В	t	t
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			t	B B B							



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		-	Ь	B B							

☐ FALCONIFORMES **■** Cathartidae

Turkey Vulture Cathartes aura

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		tt b	b	b b	t b	t b t	t b Bt	b t	t B t	Ь	t B B B
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Accipitridae

Hawks

Osprey	
Pandion	haliaetus

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Bald Eagle	
Haliaeetus	leucocephalus
TES	

Northern Harrier

Circus cyaneus

Sharp-shinned Hawk

Accipiter striatus

WWWW------WWW-w-w----WWWw----ww--WWW-W-w----w

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в	B B B B	BB B tB	bt B b	t	•	t	В	В	B B b	-	t
	B B B	t B B	t B B	Ь В В В В	t	t	t	t	-	t	-
		b B	в	B B B	t b b	в	В	b t	в	-	t -
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B B B B	BB BB	BB B Bb	ь Б	t	t	t	- tt	tt t tt	B t	b	t
B B t	BB BB BB	B B B	t B B	B B	B t	t	В	b	tt B	t	В
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			р	tt b							

Cooper's Hawk Accipiter cooperii

WWW------Www---wwWw----w-w --Ww-W-w-w-

Northern Goshawk

Accipiter gentilis TES

WWW----WWW---WWWW-ww----WWWWW-w-www -WWWww-W---W

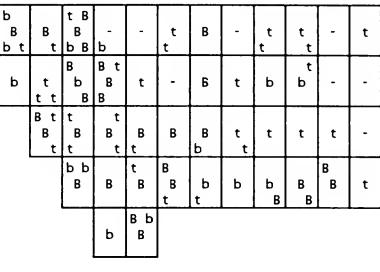
Red-shouldered Hawk

Buteo lineatus LL 3; Sept. 13, 1965; West Glacier n=2

Broad-winged Hawk Buteo platypterus



В	t B t	tb B tB	ь Б	b	t t	-	t	t t	t t	t	t
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Hawks

Swainson's Hawk

Buteo swainsoni

Red-tailed Hawk *Buteo jamaicensis*

WW-----w--WWwww-w---w W--W--ww-ww WWWwwWWW---w

Ferruginous Hawk

Buteo regalis TES

Rough-legged Hawk

Buteo lagopus

b	B b	t B	b B t	b B	B B b	в В	t B	B	B B t b	B b	t b
b	t b B	В	bB B t	B B	t B	В	B t	В	t B B t	B t	b t
	t	t B	b t	B t	B B	ь b	B B	В	b	t B	B t
		B b b	В	b B	b	b	B b	tt B B	b	t b t	B tt
			B B	b B							

bt B bt	B b B	bB B BB	b B B	b B B	ь b	а а	t	В	b t t	ь Ь	В
в	tB B bB	Bt B tt	bB B bb	В	b	в	B t	в b	tt B b	В	B t
	b B B	BB B tB	bt B bt	BB B bb	B t B	b bB	B B t B	t B	B B	t B	B t
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		t t t	t	t	t	t	t	t	t	t	t
			t	t							

Golden Eagle Aquila chrysaetos

	Falconi	dae
Ar	nerican	Kestrel

Falco sparverius

WW-----w--WW-www------W-www-wwww---Ww-W-W-w---

Merlin

Falco columbarius

Peregrine Falcon

Falco peregrinus

WW---W-WWW---W--W-WW-W-W--W-WW-W---WWW-W----

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	B	tb B t	bt B B	Bt B B	B t b	B bt	B B t	t B	B B	В	В
		bB b	b B	B B	bB B B	t B t B	B b	B B	t B	t B	B t
			b B	Bb B							

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	В	В	В	В	В	В	В	b	b	b	В
	В	t	В	b t	tΒ	Βt	tΒ	t	В		b
		ΒB	b	b t	ΒB	t t	t t	t t	t t	t t	b
		В	В	В	В	Ь	В	В	В	В	В
			t	t	В	t b	b		bЬ	b t	t b
			В	ΒB							
			В	В							

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Gyrfalcon Falco rusticolus

Prairie Falcon

Falco mexicanus

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			b B	B B							

□ GALLIFORMES ■ Phasianidae

Gray Partridge Perdix perdix

(introduced)

Chukar Alectoris chukar (introduced)

-W------W---------W-W-----

B b	م م	b b Bt	b B b	B B b	B b	bB B	BB B B	B bb	В	b B
B B t	-	bB B b	B B	b B	в	в b	B B	bb B	b	b
B B	B B	t B B	t B t	В	B B	B B t	Ь	В	b B	B b
	Ь	В	B B	t B b	B b t	b B	В	В	В	B b
		В	В							
	b B t B	B b b b B - t B B B B B B B	B b b B b B t B - B t b B b B b b B b b B b b B b b B b b b	B b b B b b B t B - B B B - B B t - B B B B C C B B B B B B B C B B B C B B B C B B B C B B B C B B B C B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B <	B b B B b b B b B - B B B - B B C - B B B - B B B B C C B B C C B B C C B B C C B B C C B B C C B B C C B B C C B B C C B C C C B C C C B C C C B C C C B C C C C C C C C C C C	B b B B B b b B b B B - B B B B - B B B B - B B B B - B B B B B C C C B B C C C B B C C C B B C C C B B C C C B B C C C B B C C C B C C C C B C C C C B C C C C B C C C C C C C C C C C C C C C C C C C C C C C C C C C C C	B b B	B b b B	B b b B	B b b B

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Ring-necked Pheasant

Phasianus colchicus (introduced)

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b	B B	b	B bt	b B b	B bb	B	b B bB	BB BB	B B B B	В	b B
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		b -	B b	B B	B	b B	bb B	b B	b B bb	b B b	B b
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Spruce Grouse

Dendragapus canadensis

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WWWw-	-	-	-	-	-	-	-
WW	-	-	-	-	-	-	-
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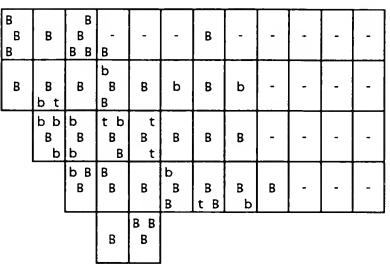
Blue Grouse Dendragapus obscurus

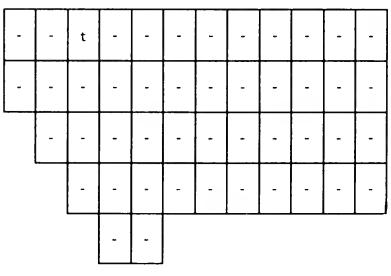
WWW--W----WWW-WWW----WW-WWW------WW------W

Willow Ptarmigan

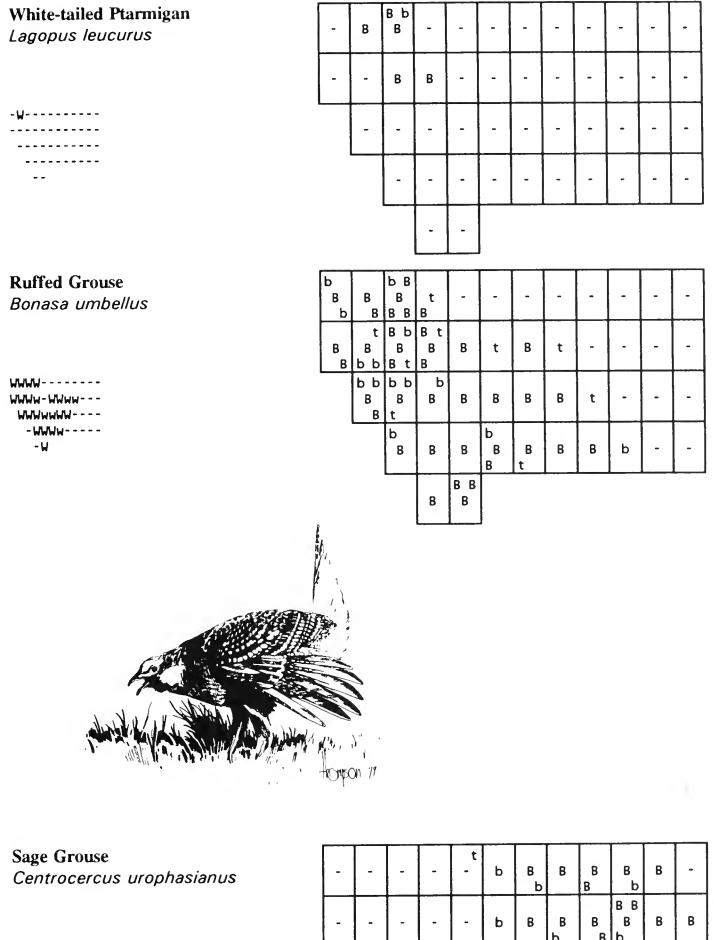
Lagopus lagopus LL 3; Feb. 21, 1914; Midvale n=1

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		B B	В	-	-	-	-	-	-	-	-
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Grouse



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Greater Prairie-chicken

Tympanuchus cupido LL 12; Medicine Lake; (MT Outdoors 11:25) n=1

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Sharp-tailed Grouse

Tympanuchus phasianellus

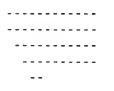
- W-WWWWWWW - W- WWWWWWW - - WWWWWWW - - WWWWWWW

Wild Turkey Meleagris gallopavo (introduced)

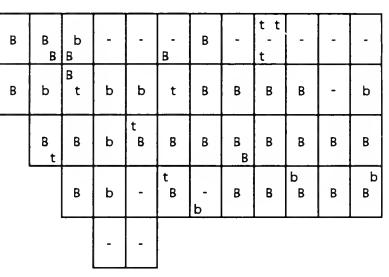
WW----WWWW--w W--WWWWWWW ---W-WWWWWW ---

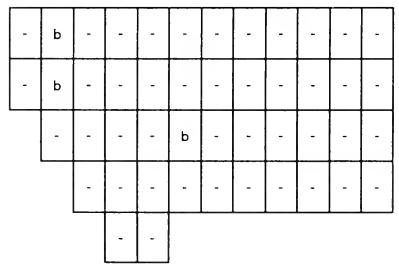
Northern Bobwhite

Colinus virginianus LL 2; Feb., 1982; Big Fork n=9 (introduced)



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В	В	В		b				ΒB			b
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GRUIFORMES Rallidae

Rails

Yellow Rail

Coturnicops noveboracensis
QLL 14B; Sept. 30, 1984;
East Bay, Flathead Lake
n=3

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Virginia Rail Rallus limicola

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Sora Porzana carolina

W-------W--W----

Common Moorhen

Gallinula chloropus LL 15; May 2, 1972; Seeley Lake n=1

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			а а	Ь							

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American Coot Fulica americana

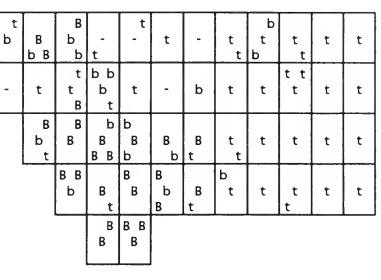
WWW
WWW-W
W-wW
WW-W

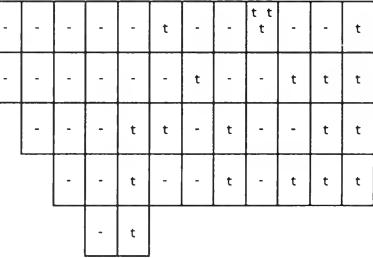
Sandhill Crane Grus canadensis

Whooping Crane

Grus americana TES

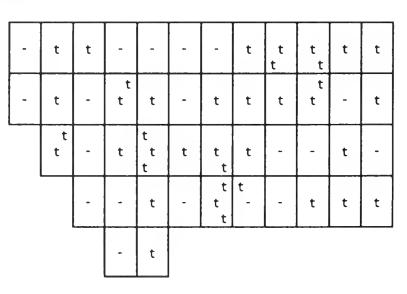
		В	b	b	В						
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	b	bВ	Вb				b	t	t	Ь	
	t	t b	t	b				b			
	В	В	В	В	В	Ь	В	В	Ь	b	В
	В		t	Ьt	t t	b t	t				b
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		b	В	В	В	В	В	В	В	В	В
					В						Ь
			b	BB							
			b	В							





CHARADRIIFORMES Charadriidae

Black-bellied Plover Pluvialis squatarola



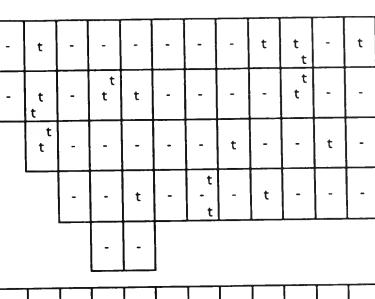
Lesser Golden-plover Pluvialis dominica

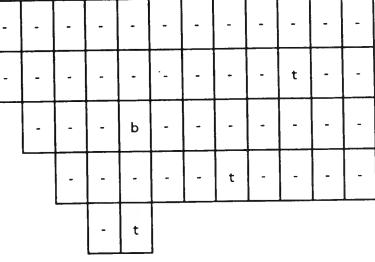
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Snowy Plover Charadrius alexandrinus LL 41; Sept. 5, 1982; Broadview n=4 TES

Semipalmated Plover Charadrius semipalmatus

Piping Plover *Charadrius melodus* TES





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Killdeer

Charadrius vociferus

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Mountain	Plover

Charadrius montanus TES

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Recurvirostridae

Black-necked Stilt

Himantopus mexicanus

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American Avocet

Recurvirostra americana

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Greater Yellowlegs Tringa melanoleuca

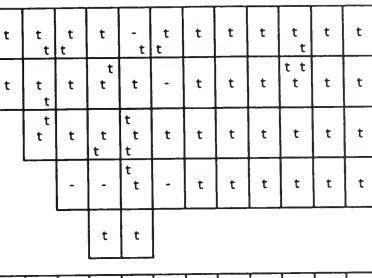
Lesser Yellowlegs Tringa flavipes

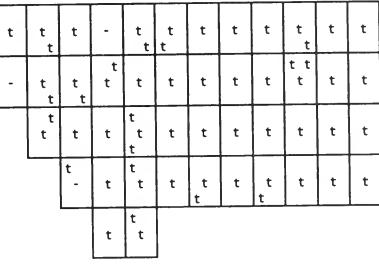
Solitary Sandpiper Tringa solitaria

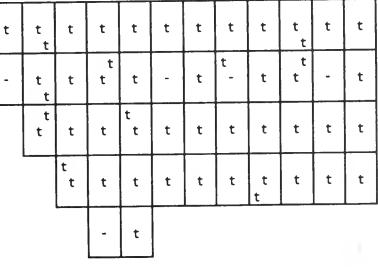
Willet

Catoptrophorus semipalmatus

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Spotted Sandpiper

Actitis macularia

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Upland Sandpiper Bartramia longicauda

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Whimbrel Numenius phaeopus

Long-billed Curlew Numenius americanus

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Sandpipers

Hudsonian Godwit

Limosa haemastica QLL 9C; April 29, 1991; Bowdoin NWR n=11

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Marbled Godwit

Limosa fedoa

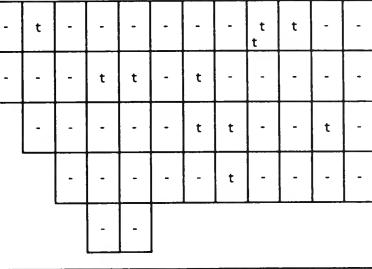
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Ruddy Turnstone

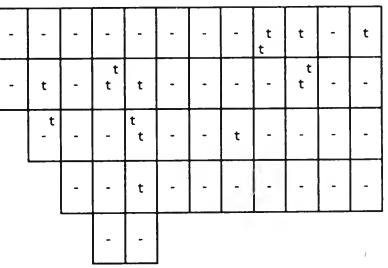
Arenaria interpres

Black Turnstone

Arenaria melanocephala LL 3; Aug. 28, 1957; Lake McDonald n=1



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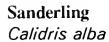
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Red Knot

Calidris canutus QLL 9C; May 13, 1988; Bowdoin NWR n=17

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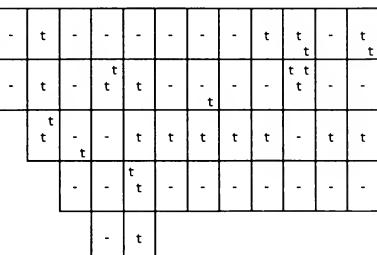
Semipalmated Sandpiper Calidris pusilla

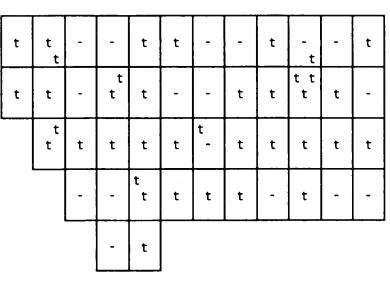
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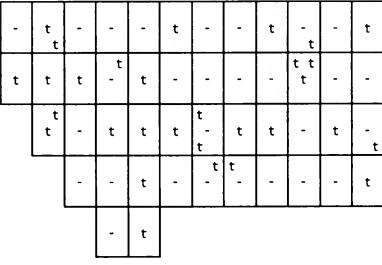
Western Sandpiper

Calidris mauri

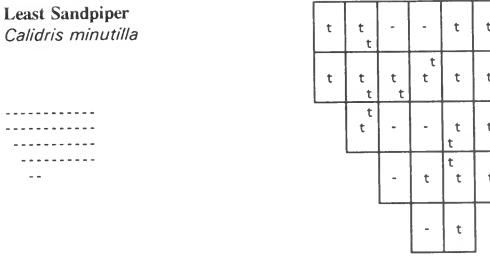


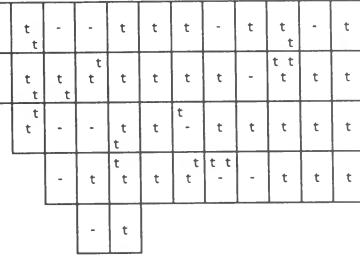






Sandpipers





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White-rumped Sandpiper

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Calidris fuscicollis QLL 2A; July 29, 1985; Dry Lake, Fortine n=14 _____ ----

Baird's Sandpiper

Calidris bairdii

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Pectoral Sandpiper Calidris melanotos

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Dunlin

Calidris alpina

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Curlew Sandpiper

Calidris ferruginea LL 17; May 14, 1972; Benton Lake n=1

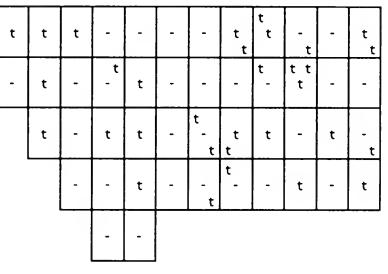
Stilt Sandpiper Calidris himantopus

Buff-breasted Sandpiper

Tryngites subruficollis LL 14; Fall, 1982; Pablo Reservoir n=8

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Short-billed Dowitcher

Limnodromus griseus QLL 25B; July 23, 1988; south of Frenchtown n=19

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Long-billed Dowitcher Limnodromus scolopaceus

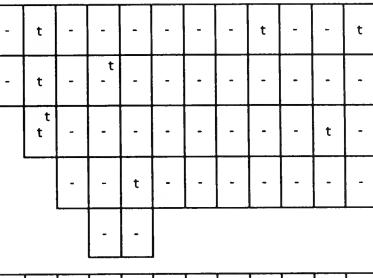
Common Snipe

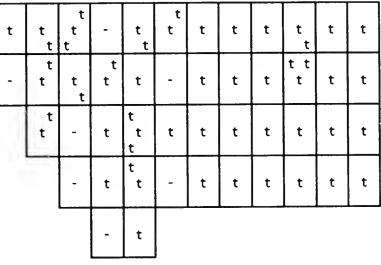
Gallinago gallinago

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American Woodcock

Scolopax minor LL 14; Oct. 1, 1983; Ninemile Creek n=2





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Wilson's Phalarope

Phalaropus tricolor

Red-necked Phalarope

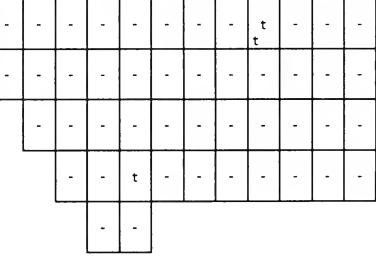
Phalaropus lobatus

Red Phalarope

Phalaropus fulicaria QLL 9C; July 24, 1984; Bowdoin NWR n=6

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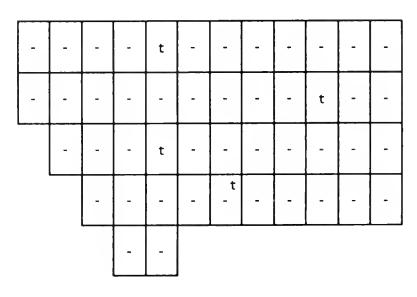
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🔳 Laridae

Pomarine Jaeger

Stercorarius pomarinus QLL 40B; June 28, 1990; Halfbreed NWR n=4



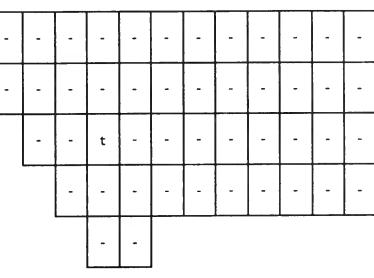
Parasitic Jaeger Stercorarius parasiticus	-	- t	-	-	-	-	-	+	-	-	-	-
QLL 2D; Nov. 15, 1987; near Somers n=13	-	-	•	t	t	-	-	-	-	-	-	-
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Long-tailed Jaeger Stercorarius longicaudus	-	-	-	-	-	-	-	-	-	-	-	-
QLL 14B; Sept. 30, 1988; Flathead Lake southwest of Wildhorse Island n=6	-	t t	-	-	t	-	-	-	-	-	-	-
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Laughing	Gull
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Larus atricilla LL 27; May 27, 1980; Warm Springs n=1

Franklin's Gull

Larus pipixcan sı



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Bonaparte's Gull

Larus philadelphia

Mew Gull

Larus canus LL 10; Oct. 26, 1977; Ft. Peck n=1

Ring-billed Gull

Larus delawarensis SI

California Gull

Larus californicus SI

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Larus argentatus	
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Herring Gull

Thayer's Gull

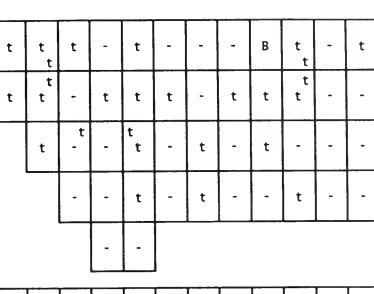
Larus thayeri QLL 10D; Nov. 16, 1991; Ft. Peck n=3

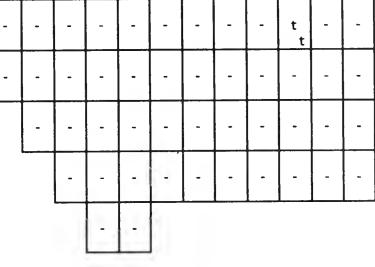
Iceland Gull

Larus glaucoides LL 10; Dec. 14, 1979; Ft. Peck n=2

Glaucous Gull

Larus hyperboreus LL 10; Jan., 1984; Ft. Peck n=11





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Glaucous-winged Gull

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Larus glaucescens QLL 14B; Jan. 26, 1991; Polson n=2

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Great Black-backed Gull

Larus marinus QLL 10D; Feb. 21, 1987; Missouri River below Ft. Peck power plant n=2

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Black-legged	Kittiwake
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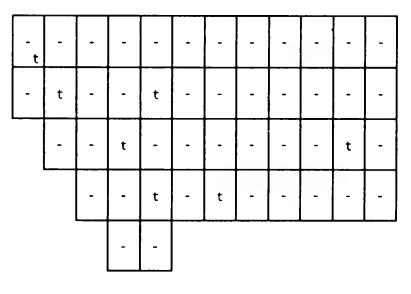
Rissa tridactyla QLL 28A; Nov. 23, 1990; Canyon Ferry Dam n=4

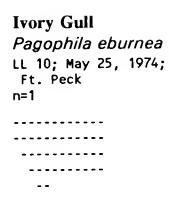
Sabine's Gull

Xema sabini QLL 1D; Sept. 17, 1985; Libby Dam n=10

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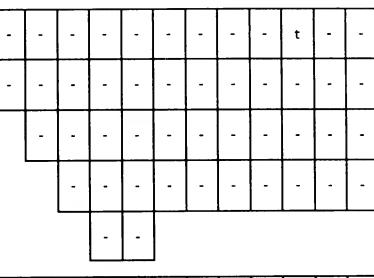
Caspian Tern

Sterna caspia ^{SI}

Common Tern

Sterna hirundo si

Forster's Tern Sterna forsteri



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Least Tern Sterna antillarum QLL 43A; June 5, 1991; Castle Rock, Colstrip n=8 TES

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Black Tern Chlidonias niger

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Alcidae

Marbled Murrelet

Brachyramphus marmoratus QLL 15C; June 26, 1985; North end of Seeley Lake n=1 TES

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Ancient Murrelet

Synthliboramphus antiquus LL 10; Dec. 10, 1979; Ft. Peck n=5

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COLUMBIFORMES Columbidae

Doves

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Columba livia	b	B	b	Ь ВЬ	В	В ВЬ	В	Ь	b	В	В	В
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Band-tailed Pigeon												
Columba fasciata	t	t	t	-	-	t	-	-	-	-	-	-
QLL 15A; Sept. 25, 1991;	- H	<u> </u>	-				<u> </u>			<u> </u>		
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White-winged Dove												
Zenaida asiatica	-	-	-	-	-	-	-	-	-	-	-	-
LL 17; June 27, 1979;	<u> </u>											
Benton Lake NWR												
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Mourning Dove

Zenaida macroura

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□ CUCULIFORMES ■ Cuculidae

Black-billed Cuckoo

Coccyzus erythropthalmus

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Yellow-billed Cuckoo Coccyzus americanus

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STRIGIFORMES **Tytonidae**

Common Barn-owl

Tyto alba

QLL 26A; July 7, 1991; Rattlesnake drainage north of Missoula n=10

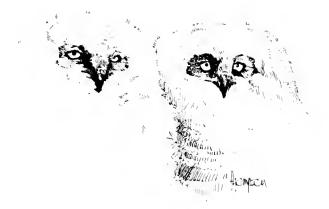
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Strigidae Flammulated Owl

Otus flammeolus QLL 25D; July 29, 1991; Blodgett Canyon n=9 TES

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Eastern Screech-owl

Otus asio QLL 41B; Dec. 12, 1988; Yellowstone River north of Huntley n=13 SI

Western Screech-owl

Otus kennicottii si

Great Horned Owl

Bubo virginianus

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Snowy Owl Nyctea scandiaca

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Northern Hawk-owl

Surnia ulula LL 14; Dec. 20, 1981; Pablo Reservoir n=12

Northern Pygmy-owl

Glaucidium gnoma

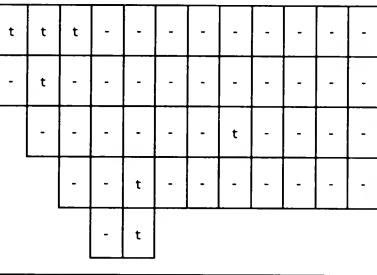
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Burrowing Owl

Spectyto cunicularia (formerly genus Athene) TES

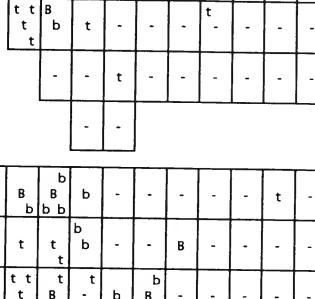
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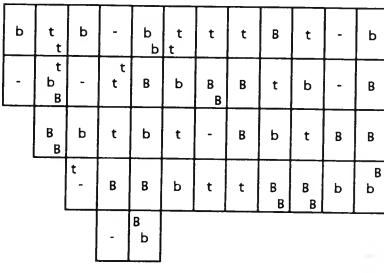
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Barred Owl

Strix varia

WW----www----------------- -

Great Gray Owl Strix nebulosa TES

WWW--------W-------W--w-------W------ -

Long-eared Owl Asio otus

ww---W--W--w -W-w------W-W----w---Ww-WWWw-- -

Short-eared Owl Asio flammeus

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Boreal Owl Aegolius funereus TES

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Northern Saw-whet Owl Aegolius acadicus	Bt	B t	b b b	-	-	- t	-	-	t t	t	-	-
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CAPRIMULGIFORMES Caprimulgidae

Common Nighthawk

Chordeiles minor

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Whip-poor-will

Caprimulgus vociferus QLL 1D; June 28, 1990; Libby Dam n=1
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■ APODIFORMES ■ Apodidae

Black Swift Cypseloides niger

Chimney Swift

Chaetura pelagica

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Vaux's Swift Chaetura vauxi

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White-throated Swift Aeronautes saxatalis

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Trochilidae

Ruby-throated Hummingbird

Archilochus colubris QLL 15B; June 10, 1988; Webb Lake (Spotted Bear River) n=7

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Black-chinned Hummingbird Archilochus alexandri



Anna's Hummingbird

Calypte anna LL 41; Jan. 23, 1983; Billings n=5

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Calliope Hummingbird Stellula calliope	B B b	B b	bb B bb	b	-	-	-	-	-
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Broad-tailed Hummingbird Selasphorus platycercus	-	t	ь	-	-	-	-	-	-
LL 13; May 19, 1981; St. Regis n=10	t	-	-	-	-	-	-	-	-

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Rufous Hummingbird

Selasphorus rufus

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CORACIIFORMES Alcedinidae

Belted Kingfisher Ceryle alcyon

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■ PICIFORMES ■ Picidae

Lewis' Woodpecker

Melanerpes lewis

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WW
WW-w

B b	B b	в	-	-	Ь	Ь	-	-	-	-	-
b	b B bt	В	t B	t	b	t	b t	-	-	-	-
	B B	B	tt B t	t b	Ь	t	t t	t	Ь	-	-
		t b	Ь	В	Ь	B	В	B	B B	-	B b
			-	t b							

Red-headed Woodpecker

Melanerpes erythrocephalus

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-	t	t	-	t	t b	В	Ь	B B	B B	Ь	в
-	t	b	t	t	-	B B	B B	B t	t	Ь	в
	-	-	t	t t	Ь	Ь	b b t B	b B	В	В	в b
		-	-	t	t	ß	В	b b t	t B	Ь	b B b
			-	t							

Red-bellied Woodpecker

Melanerpes carolinus LL 10; Dec. 1, 1981; Ft. Peck n=1

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Red-naped Sapsucker

Sphyrapicus nuchalis (formerly combined with Yellow-bellied Sapsucker)

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в bb	BB	Ь	ь b	Ь	-	в	t -	t	-	Ō	-
b B	B b B	Bt B Bb	B B	-	b B	В	t t	-	-	-	t
	B B b	ь В Ь	b B bt	в bb	B	В	t	-	-	-	-
		bt b	B	B	B B	В	Ъ	В	Ь	-	- -
			Ь	B B B							

Woodpeckers

Williamson's Sapsucker Sphyrapicus thyroideus

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Downy Woodpecker

Picoides pubescens

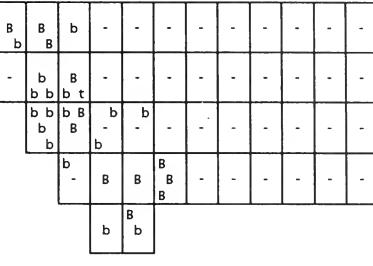
WWWWWWWWW WWWWWWW WWWWWWWW WWWW-WWWW -W

Hairy Woodpecker

Picoides villosus

White-headed Woodpecker

Picoides albolarvatus QLL 1B; March 23, 1991; Parsnip Overlook Trail southwest of Eureka n=6



						-					
b b	B b	b B b b	ь b	Ь	Ь	ь b	t	b	B b	b	b
b B	B t	Bt B bt	ь в ь	t	р Р	В	t	t	t	Ъ	b
	B b B B	t t B	tb b t	р р р	в	В	b b tb	t	Ь	b	b
		t -	В	В	B B t	b B t	bb B	b	а а а	р р	b
			-	B b							

b B bb	B b	tb B bb	ь b	Ь	Ь	в	t	b	B	t	b
B B	B b B	Bt B bt	B B b	t	b	b	Ь	b	t t	t	Ъ
	B b B B	BB B B	b B bt	t B b	В	B b	t	t	р	Ь	В
		bb B	В	b B	B B B	B b	ь	b	B bb	Ь	b B
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Three-toed Woodpecker

Picoides tridactylus

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			-	В -							
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Black-backed Woodpecker

Picoides arcticus

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Northern Flicker

Colaptes auratus SI

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Pileated Woodpecker Dryocopus pileatus

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WWW	-	-	-	•	-	-	-	
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р В Р	B B	bb B bb		t	E t	B	в Ь	В	B b	Ъ	B B	В	В
t B b	ь В ЬЬ	Bb Bbt		ь 3 ь	Ŀ	>	р Ф	В	8 B	а а	tt b	Ь	Bb
	B B B	b B B B t	6	b 3 B	B B B	с С	B b	B bt	bt B tB	ь В	д Д	b B	B
		bb B		3 Ь	B E t		B B B t	b B t	bb B	b B	В В Ь Ь	b B	ь В р
				b	B	B							

b b bb	b B t b	b B bb	-	-	-	-	-	-	-	-	-
b B	B b B	B B B t	Ь	-	•	•	-	-	•	-	-
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■ PASSERIFORMES ■ Tyrannidae

Olive-sided Flycatcher

Contopus borealis

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Western Wood-pewee Contopus sordidulus

Eastern Wood-pewee

Contopus virens LL 8; June 6, 1970; Dodson n=2

Alder Flycatcher

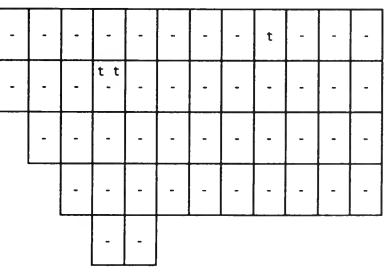
Empidonax alnorum QLL 16A; Sept. 11, 1991; Pine Butte Swamp n=3

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b b	b t	bb B bb	-	-	-	-	-	-	-	-	-
b b	b b t b	b B b	b b b	Ь	b	- t	- t	-	-	-	-
	bb b t	b B	b b b	b	b b	t	t	t	-	t	- t
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			b	b b							

B b	B B	ь В ЬЬ	ь b	В	b B	B b	B b	b	B b	b	b
р Р	B B b b	Bt b b	bb B bb	b B	b	В	B B	b b	t b b	b	b
-	tb B b	b B B	b B	р р р р	Bb	ь Б	ь	Ь	B b	b	b
		р р	в b	b B	b B t	ь в ь	р Р Р	b B bb	р р	b B	b b
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Willow Flycatcher

Empidonax traillii

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Least Flycatcher Empidonax minimus

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Hammond's Flycatcher Empidonax hammondii

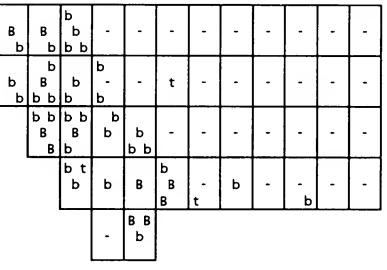
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Dusky Flycatcher Empidonax oberholseri

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	bb B	b B	ь В	موم	B b	ь -	t	Ь	t	t	-
		р Р	а а	р Р	b В b	-	Ь	•	- Ь	-	t
			Ь	BB b							

t b	b b	р - р	- b	Ь	b	- Ь	t	t	b b	Ь	В
-	р Р	b	bb B b	Ь	р Р	В	В Ь	•	t t t	Ь	b b
	B B	Ь	, Ч	а а	а а	σσ	b	Ь	t	þ	Ь
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в b	вь	b b bb	Ь	ь	-	ъ	Ь	-	-	-	-
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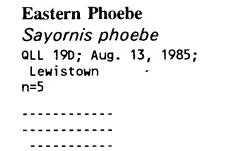
Flycatchers

Cordilleran Flycatcher

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Empidonax occidentalis (formerly Western Flycatcher)

Bb	م م	b B	-	В	-	Bb	-	1	-	-	-
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	b B	b B	t	b	-	-	t	-	-	-	-
		-	-	b	t b b	bb t t	b	-	-	-	-
			b	bb t							
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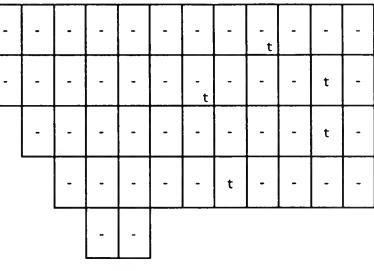
Say's Phoebe

Sayornis saya

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Ash-throated Flycatcher

Myiarchus cinerascens LL 27; Aug., 1978; Helena n=9



t b	t b	b t B	B B	b b	B B b	в b	bb t b	b B	b t b	b	b B
t	b B	Ъ	bb B	B B	b	В	B b	ь b	tt b b	В	b
	b	В	В	t B	t	t B	B B t b	а С	d d	b B	Bb
		-	В	В	t	b B t	b B	b B	tb B bb	b B t	в b b
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Great Crested Flycatcher

Myiarchus crinitus LL 45; June 12, 1972; Hammond n=2

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Cassin's Kingbird

Tyrannus vociferans si

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Western Kingbird

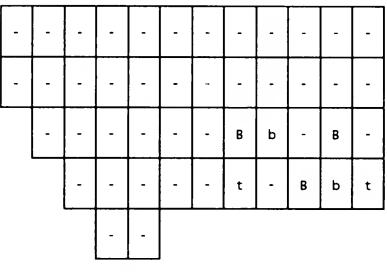
Tyrannus verticalis

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Eastern Kingbird Tyrannus tyrannus

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в b	Bt	р р	б С С	b B	В Вb	в b	р Р	B B	b B B	B b	b B
В	B B t	Ъ	t B b b	B B	р В	В	в b	م م	tt B b	B	в
	B t	В	م م	t B b	Ь	Ь	B B tt	ן ק	в b	ь В	в b
		р Р	а а	b B	b t	b B t	b B	b B	tb B bb	а а	ь b
			t	t t b							

в	в	b B	b b	b B	в	В	b b	В	в	в	b B
b	В	ťЬ	bt	Ū	вb	Ъ	b	В	ΒВ	b	
	tΒ	t	bВ	В	b		b		t t		b
b	В	В	В	В	В	В	В	b	В	В	В
	bt	t	bb				b	b	Ь	Ъ	b
		t	b	bЬ			В	Ь		Ь	
	В	В	В	В	В	Ь	В	В	В	В	В
	В		В	b	b	b	t		b		b
		В		В	bЬ	b	b	b	tЬ	b	b
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			b		t	b		b	Ьb	b	tЬ
			Ь	t t B		·					
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Swallows

Scissor-tailed Flycatcher

Tyrannus forficatus QLL 48B; June 10, 1986; Conner n=6

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Alaudidae

- -

Horned Lark Eremophila alpestris

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📕 Hirundinidae

Purple Martin

Progne subis LL 10; May 10, 1982; Ft. Peck n=18

Tree Swallow Tachycineta bicolor

		b	b b	b			b				b
b	t	В	b	В	В	В	В	В	В	В	В
	t	b	b t		Вb	b	b	В	tb	b	
	b		bЬ	В	b				ΒB		
t	b	b	В	В	b	В	В	В	В	В	В
	t	t	b				b	b	b	b	b
			tЬ	b			В	b		b	
	В	В	В	В	В	В	В	b	В	b	В
	t	b		b t	В	В	t		b		b
				b		В	b	b	tb	b	t b
		В	В	В	В	Ь	В	В	b	b	В
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BB	tB B bt	B B B B	bB B bb	t B	t B	В	b B t	b b	t t	Ь	t
	t B B	t B	b B B	b B bt	B t B	B b	b t	t	b t	В	t b
		B t B	B t	B B	B B B t	b B bB	tB B b	b	t B B	t b	b
		.	b B	BB B							

Violet-green Swallow Tachycineta thalassina

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			-	-								

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вд	B B	Ь Ь В Ь В	- b	в	t	Ь	-	t	BB	Ь	-
Bb	tb B bt	B t B t B	bt B b	B b	Ь	B	В b	ь b	t	-	t
	t B B	tt B	b b t B	b B b	В	Ь	b t	•	b	Ь	-
		tb b	b B	b B	b B B t	t B b	В	Ь	в bb	В	b b
			р Р	BB b							

Northern Rough-winged Swallow Stelgidopteryx serripennis

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		Ь	Bt	B B	b B B t	t b	t B	Ь	t b b	Ь	b t
			b b	BB b							

Bank	Swallow	
Rinar	ia rinaria	

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Riparia riparia

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Cliff Swallow Hirundo pyrrhonota

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B b	B B	ь В t b	ь Б	b B	в b	В	ь	B B	B B	В	В
B b	t B	В	ь ь ь ь	b	Ь	В	Ь	b	t b t	B	B
	B B	t B t	b B	B b	b t B	- В	-	В	В	t B	B t
		-	B	B B	B B t	В	В	Ь	t b	t b	- t
			B B	B B							

Bb	B B	ЫВ В В В	B B B D	b B B	B B	B b	t b b	B B	B B	В	b B
В	t B B t B	B t B	Ь В В Ь Ь	B B	B B	В	b B t	Ь В	t B b	B t	B t
	t B t	t B	b B	b B Bt	B B	B B	B B	t B	Bt	t B	B b
		ВЬ В	Bt	B t B	Bt B b	t B b	t B B	tt B	tt B Bb	tt B tt	B t t
			B B	BB B							

Barn Swallow Hirundo rustica

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b		tΒ	В	В			В				b
В	В	В	b	В	В	В	b	В	В	В	В
b	8	ΒB	В		Вb	b	b	В	В	b	
	tΒ	В	ΒB	В	t				ΒB		
В	В	В	В	В	Ь	В	В	b	В	В	B
В	b	t t	bЬ				b	В	В	t	t
	t	t t	b	b			В	t		t	
	В	В	В	В	В	В	В	В	В	В	В
	В	b	В	b b	tΒ	В			t		b
		Вb		Вb	Βt	t	t	t t	t t	t	
		В	В	В	В	В	В	b	В	В	В
	i		t		В	b	b		Вb	bτ	tЬ
			B	ΒB							
			В	В							

Corvidae

Gray Jay Perisoreus canadensis

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WWW-----WWW--W-----WWW------W-WW-W------W

Steller's Jay Cyanocitta stelleri

WWW-----WWW-----WWWw------WWWwW-----w

Blue Jay Cyanocitta cristata

WWW--ww-WW---WWWw-W----W W-WW---www--WWw-W----

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b B b	b t	Bb B bb	-	-	-	-	-	t	-	-	-
Ь	tb B tb	Bt b tt	b B B	Ь	Ь	t	•	-	•	-	-
	BB b t	bb B tt	Ь	ь Р	b	Ь	-	-	-	-	-
		bb b	В	В	b B	t t	Ь	-	-	-	-
			t	B b							

р Р	t b t	Ь	-	-	-	-	-	-	-	-	-
Ь	B t b	Bt b b	в b	Ь	-	-	-	-	-	-	-
	bb B b	ь b	р Д	Ь	b	t	Ь	t	-	-	-
		b b b	Ь	b B	b B	b	t	1	-	-	-
			t	B b							

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-	t	t	t t	b t	•	t	-	t	t	-	b
	t t t	t t	t t t	t t	t	-	-	b	Ь	t	t
		-	t	t	t t t	t	t	-	-	Ь	B b
			t	t							

Pinyon Jay *Gymnorhinus cyanocephalus*

t	t	-	-	-	-	t	-	-	t	-	-
-	-	-	•	t	t	Ь	Ъ	р Д	Ь	-	Ь
	t	t	t t	t B b	t	Ъ	Ь	Ь	b	t	t
		t -	t	b B B	B B	ь Ь	B b	t	В	Ь	Ь
			-	-							

Clark's Nutcracker Nucifraga columbiana

WWWW-WW----WWWW-WWWW---WWWW-w---W WWWWWW---W

-----WW----WWWW-WWWWW WWWW-WWWWW

- -

Black-billed Magpie

Pica pica

American Crow Corvus brachyrhynchos

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Chickadees

Common Raven

Corvus corax

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Paridae

Black-capped Chickadee Parus atricapillus

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Mountain Chickadee Parus gambeli

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Boreal Chickadee

Parus hudsonicus

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Chestnut-backed Chickadee

Parus rufescens

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Sittidae

Red-breasted Nuthatch

Sitta canadensis

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White-breasted Nuthatch Sitta carolinensis

Pygmy Nuthatch

Sitta pygmaea

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Brown Creeper Certhia americana

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Troglodytidae

Rock Wren

Salpinctes obsoletus

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Canyon Wren Catherpes mexicanus

House Wren Troglodytes aedon

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Winter Wren Troglodytes troglodytes

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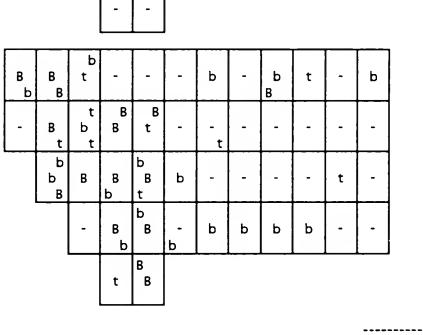
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Sedge Wren

bluge men
Cistothorus platensis
LL 12; June 26, 1981;
Medicine Lake
n=6

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Marsh Wren Cistothorus palustris



Cinclidae

American Dipper Cinclus mexicanus

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Golden-crowned Kinglet Regulus satrapa

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Ruby-crowned Kinglet

Regulus calendula

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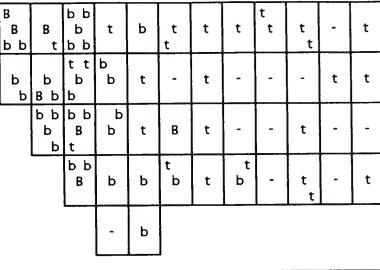
Blue-gray Gnatcatcher

Polioptila caerulea LL 10; Oct. 9, 1977; Ft. Peck n=1

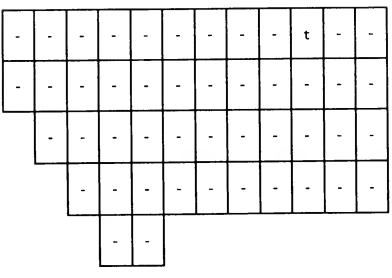
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Eastern Bluebird

Sialia sialis QLL 43A; July, 1991; Lame Deer n=18



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Western Bluebird

Sialia mexicana

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Mountain Bluebird

Sialia currucoides

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Townsend's Solitaire Myadestes townsendi

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Veery Catharus fuscescens

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Thrushes

Gray-cheeked Thrush

Catharus minimus LL 12; May 16, 1983; Medicine Lake n=16

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Swainson's Thrush Catharus ustulatus

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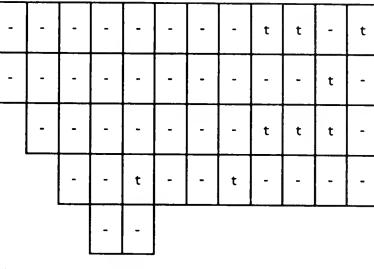
Hermit Thrush

Catharus guttatus

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Wood Thrush

Hylocichla mustelina LL 43; May 2, 1981; Birney n=5



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American Robin Turdus migratorius

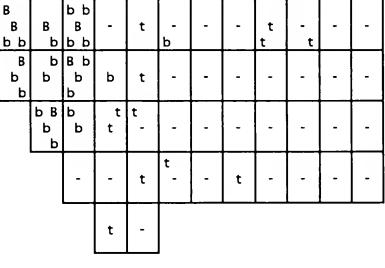
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Varied Thrush

Ixoreus naevius

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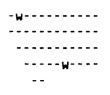
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Mimidae

Gray Catbird

Dumetella carolinensis



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Northern Mockingbird

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Thrashers, Pipits

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Sage Thrasher Oreoscoptes montanus

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Brown Thrasher

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Toxostoma rufum

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Motacillidae

American Pipit Anthus rubescens (formerly Water Pipit)

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Sprague's Pipit Anthus spragueii

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Bohemian Waxwing

Bombycilla garrulus

Cedar Waxwing Bombycilla cedrorum

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📕 Laniidae

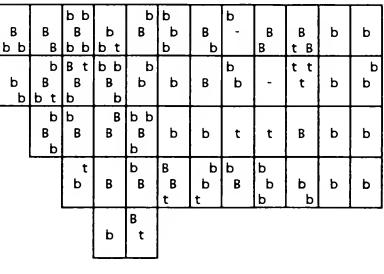
Northern Shrike

Lanius excubitor

Loggerhead Shrike

Lanius Iudovicianus TES

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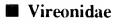
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Waxwings, Shrikes, Vireos

European Starling

Sturnus vulgaris (introduced)



Solitary Vireo Vireo solitarius

Warbling Vireo Vireo gilvus

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Philadelphia Vireo

Vireo philadelphicus QLL 10D; July 30, 1984; Kiwanis Park below Ft. Peck dam n=3

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Red-eyed Vireo

Vireo olivaceus

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Emberizidae

Tennessee Warbler Vermivora peregrina

Orange-crowned Warbler Vermivora celata

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Nashville Warbler Vermivora ruficapilla

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Northern Parula

Parula americana QLL 25A; June 28, 1988; West of Lolo n=4

Yellow Warbler Dendroica petechia

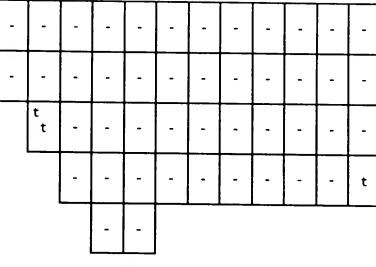
Chestnut-sided Warbler

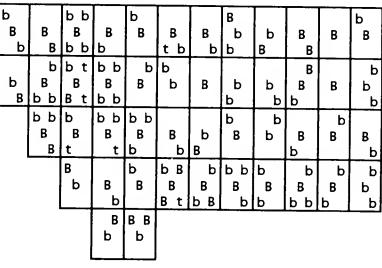
Dendroica pensylvanica QLL 12B; Aug. 16, 1990; Westby n=7

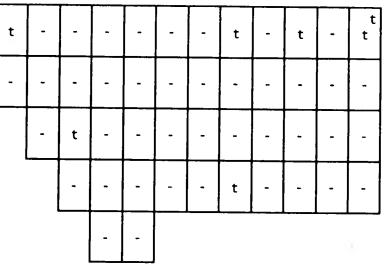
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Magnolia Warbler

Dendroica magnolia LL 10; May 17, 1981; Ft. Peck n=12







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Cape May Warbler

Dendroica tigrina QLL 12B; Aug. 3, 1990; Westby n=5

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Black-throated Blue Warbler

Dendroica caerulescens LL 41; Sept. 23, 1980; Billings n=3

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Yellow-rumped Warbler Dendroica coronata SI

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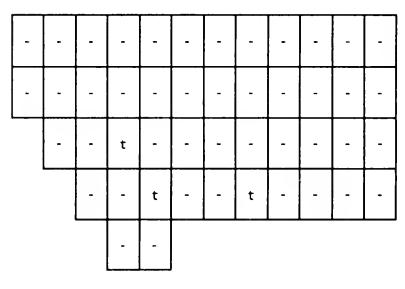
Black-throated Gray Warbler

Dendroica nigrescens LL 27; March 25, 1983; Helena n=3

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Warblers

Townsend's Warbler Dendroica townsendi

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Black-throated Green Warbler

Dendroica virens LL 38; May 17, 1981; Bozeman n=5

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Blackburnian Warbler

Dendroica fusca QLL 9C; May 23, 1991; Bowdoin NWR n=7

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Yellow-throated Warbler

Dendroica dominica LL 41; Dec. 20, 1981; Billings n=1

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Pine Warbler

Dendroica pinus aLL 12B; Aug. 15, 1990; Westby n=3

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Prairie Warbler

Dendroica discolor LL 10; Sept. 5, 1973; Ft. Peck n=1

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Palm Warbler

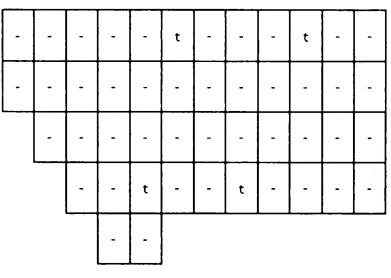
Dendroica palmarum QLL 12B; Sept. 30, 1990; Westby n=15

Bay-breasted Warbler

Dendroica castanea LL 41; April 29, 1981 n=5

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Warblers

Blackpoll Warbler

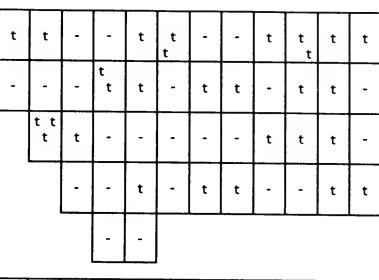
Dendroica striata

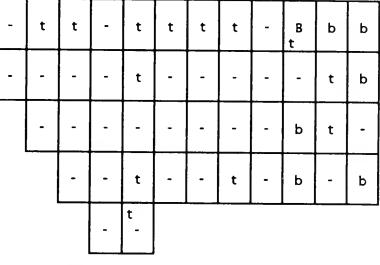
Black-and-white Warbler Mniotilta varia

American Redstart

Setophaga ruticilla

Ovenbird Seiurus aurocapillus





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Northern Waterthrush

Seiurus noveboracensis

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Kentucky Warbler

Oporornis formosus LL 10; Oct. 19, 1979; Ft. Peck n=1

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Connecticut Warbler

Oporornis agilis QLL 12B; September 5, 1990 ; Westby n=3

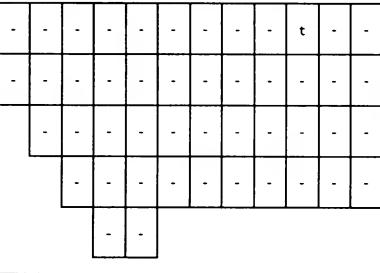
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Mourning Warbler

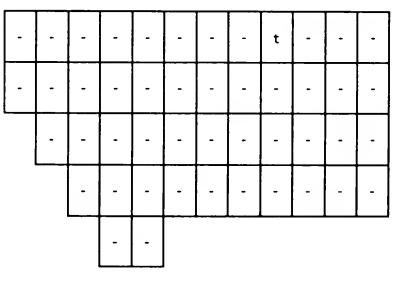
Oporornis philadelphia LL 9; June 9, 1969; Bowdoin NWR n=1

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MacGillivray's Warbler Oporornis tolmiei

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Common Yellowthroat Geothlypis trichas

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Wilson's Warbler Wilsonia pusilla

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Canada Warbler

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Yellow-breasted Chat

Icteria virens

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Summer Tanager

Piranga rubra LL 41; Nov. 18, 1981; Billings n=1

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Scarlet Tanager

Piranga olivacea QLL 3C; July 16, 1991; Emery Bay, Hungry Horse Reservoir n=6

Western Tanager

Piranga ludoviciana

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Tanagers, Grosbeaks

Rose-breasted Grosbeak Pheucticus Iudovicianus

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Black-headed Grosbeak Pheucticus melanocephalus

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Blue Grosbeak

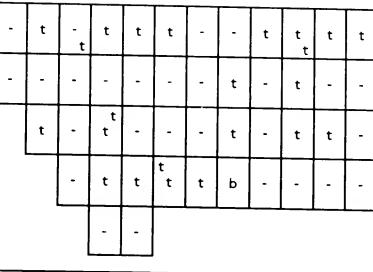
Guiraca caerulea LL 41; 1975 n=3

Lazuli Bunting

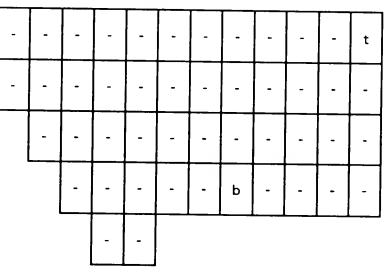
Passerina amoena

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			-	B b							



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Indigo Bunting

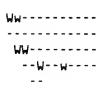
Passerina cyanea

Dickcissel

Spiza americana n=14 TES

Green-tailed Towhee *Pipilo chlorurus*

Rufous-sided Towhee Pipilo erythrophthalmus



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American Tree Sparrow Spizella arborea

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Chipping Sparrow Spizella passerina

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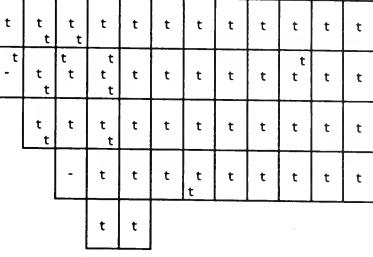
Clay-colored Sparrow Spizella pallida

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Brewer's Sparrow

Spizella breweri

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Field Sparrow

Spizella pusilla

Vesper	Spa	rrow
Pooece	etes	gramineus



Lark Sparrow Chondestes grammacus

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Black-throated Sparrow

Amphispiza bilineata LL 25; May 21, 1975; Missoula n=2

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Sage Sparrow
Amphispiza belli
LL 35; June, 1984; Fallon County
n=10 TES

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Calamospiza melanocorys

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Savannah Sparrow Passerculus sandwichensis

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Baird's Sparrow Ammodramus bairdii

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Grasshopper Sparrow

Grasshopper Sparrow Ammodramus savannarum	Ь	t	b b	ь -	-	Ь	B	b b	ь b	Bt	ь b	b b
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e Conte's Sparrow		Ь										

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Le Conte's Sparrow

Ammodramus leconteii QLL 28A; Oct. 6, 1990; Lake Helena n=17 TES -----. ---------

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Sharp-tailed Sparrow

Ammodramus caudacutus LL 12; Sept., 1943; Medicine Lake n=2 --------------

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Fox Sparrow Passerella iliaca

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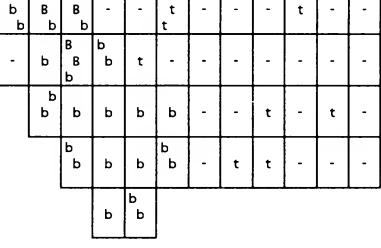
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Song Sparrow Melospiza melodia

Lincoln's Sparrow Melospiza lincolnii

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Swamp Sparrow

Melospiza georgiana LL 41; Oct. 24, 1981 n=8

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White-throated Sparrow

Zonotrichia albicollis

WW------W-----WWw------WW-W----

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b B	b B bb	bt B Bb	b b b b b	В	b B	В	b b	t b	t t t	b	b b
	bb B B	bb B tt	b B bb	b B bt	b b	ь Ь	Ь Ь	Ь	b	b b	Ь
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Golden-crowned Sparrow

Zonotrichia atricapilla QLL 9C; May 13, 1988; Bowdoin NWR n=4

White-crowned Sparrow Zonotrichia leucophrys

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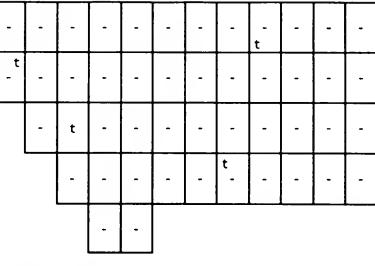
Harris' Sparrow Zonotrichia querula

WW---W--W -WW---W WWWW----Ww--WWW-W----

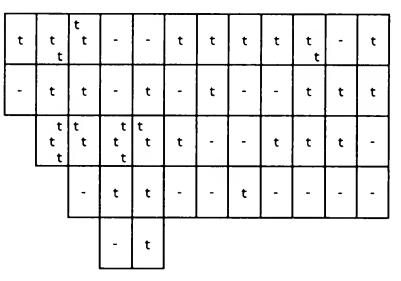
Dark-eyed Junco

Junco hyemalis ^{SI}

WWW-W---WW-W WWW-w-W---w WWWW--wWWW--WWW-W-W-W -W



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	b t	b	b b t	t b	В	В	t	t	t	t	t
		bt B	В	Ь В	bb B B	В	t b	t	t	t	t
			р Р	B B							



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B b b	b B bB	Bb B bt	bt B b	В	b	В	b	t	t t	t	t
	BB B B	bB B Bt	b B bb	tb B b	В	В	Ь	t	b	Ь	t
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Longspurs

McCown's Longspur

MaCours's Longenum		.		r								
McCown's Longspur Calcarius mccownii	-	-	Ь	b b	b b	B B b	Ь	b b	B	B	Ь	Ь
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Lapland Longspur Calcarius lapponicus	-	t t	t	-	t	t	t	-	- t	t t t	t	t
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Smith's Longspur			<u> </u>									
Calcarius pictus LL 44; Sept. 15, 1977;	-	-	-	-	-	-	-	-	-	-	-	-
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Chestnut-collared Longspur

Calcarius ornatus

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Snow Bunting *Plectrophenax nivalis*

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Bobolink

Dolichonyx oryzivorus

Red-winged Blackbird

Agelaius phoeniceus

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Western Meadowlark Sturnella neglecta

WW--W---WW---W--W-----W--W-W-WWWW -WWW-W-----W

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Yellow-headed Blackbird

Xanthocephalus xanthocephalus

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Rusty Blackbird

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Euphagus carolinus

Brewer's Blackbird

Euphagus cyanocephalus

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Common Grackle

Quiscalus quiscula

											
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	b B B	tb B b	tb B tt	bb B bt	B B	ь b	B B	ь b	р р	b b	b b
		B b	B b	bb B	BB B B	tb B	bt B	bt B	tb B bb	tb B bt	b t b
			b b	BB b							

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Brown-headed Cowbird *Molothrus ater*

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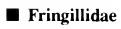
Orchard Oriole

lcterus spurius

Northern Oriole

Icterus galbula

SI

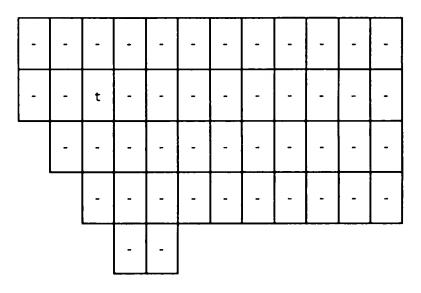


Brambling

Fringilla montifringilla LL 15; Dec. 3, 1978; Swan lake n=1

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Orioles, Finches

Rosy Finch

Leucosticte arctoa si

Pine Grosbeak

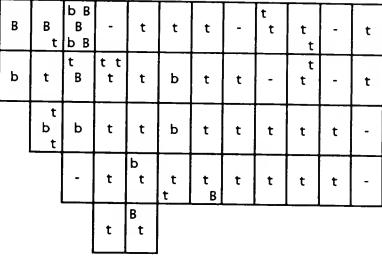
Pinicola enucleator

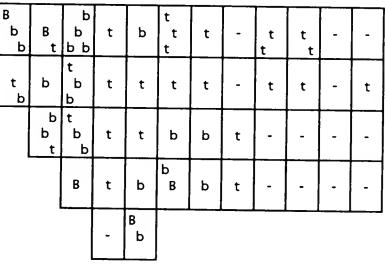
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Purple Finch Carpodacus purpureus

Cassin's Finch Carpodacus cassinii

WWW----W---WWW-----WWW---------WW-W-W---w





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House Finch Carpodacus mexicanus

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Red Crossbill

Loxia curvirostra

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White-winged Crossbill

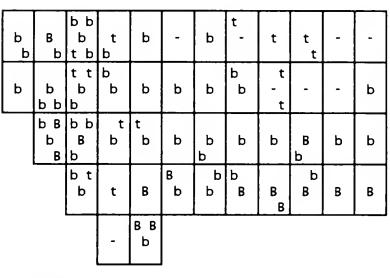
Loxia leucoptera

Common Redpoll

Carduelis flammea

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Hoary Redpoll Carduelis hornemanni

Pine Siskin Carduelis pinus

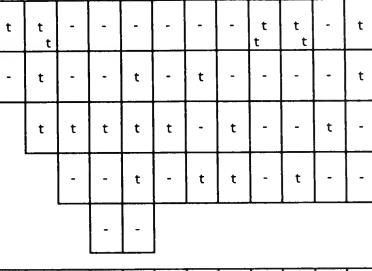
American Goldfinch Carduelis tristis

WW-----Www-w-----Wwww------wWW-W----

Evening Grosbeak

Coccothraustes vespertinus

WWW-WWW-WW-W WWW-WWW-W---WWWW-W-w--w -wWW-W-Ww---



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House Sparrow

Passer domesticus (introduced)

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Contributors to the Fourth Edition

More than 1000 Records:

Daniel Casey, Daniel Sullivan

501 - 1000 Records:

Lou Bruno, Charles M. Carlson, David Genter, Harriet M. Marble, Terry McEneaney

101 - 500 Records:

Dwight Bergeron, Marcy M. Bishop, Clifford V. Davis, Kristi Dubois, Robert L. Eng, G. J. Frazier, S. J. Gniadek, W. Edward Harper, John Hartman, Sally Hejl, C. J. Hoff, George Holton, Judy Hoy, Elly G. Jones, Larry Malone, D. L. Martin, Fritz Prellwitz, Montana Natural Heritage Program, Sue Reel, W. P. Roney, Michael T. Schwitters, Don Skaar, D. Tribby, S. D. Weller, J. Young, Mike Young.

1 - 100 Records:

Peter Achuff, Connie Akers, Kathleen Anderson, Margaret Anderson, Paul Anderson, June Ash, Maria Ash, Rod Ash, Alice Austin, Art Aylesworth, Beth Baker, Tim Baker, Janissa Balcomb, Lee Ballard, Jim Barnum, Dale Becker, Benton Lake NWR staff, Arnold Bolle, Gordon Browder, James Brown, T. S. Burns, Tom Butts, Charles Campbell, Marion Campbell, Suzi Campbell, Joel Carlson, Lynn Clark, Jane Collins, Bob Daniels, Jerome DeSanto, Claude Demarest, Dave Dickson, Jeffery E. Dobb, Sr., Pat Dolan, Anne Dueker, Joseph Engler, David Ewer, Bebe FitzGerald, Dennis Flath, Roger Fliger, S. R. Flores, Betsy Follman, Christian Frazza, Sid Frisell, Bill Good, Deb Goslin, Harvey Hackett, David Hamilton, Denise Hamilton, D. Hanson, Tom Harris, Barb Hazlewood, Rob Hazlewood, D. Heide, J. Heide, Paul Hendricks, Cal Henry, Willis Heron, K. L. Hicks, Bobby Hoe, John Hofflund, Denver Holt, Martin Holt, Mary Holt, Bob Hoy, Peter Hunt, Dick Hutto, Jaimie Ingold, Warren Iverson, Sue Jackson, Ron Jenkins, Sara J. Johnson, Cedron Jones, Thomas S. Jones, Connie Kay, W. Kerling, Jill King, Craig Knowles, Thomas Komberec, B. Krepps, M. E. Krook, Bob Krumm, Douglas Laye, Rose Leach, K. Leichter, Tom Lemke, Cary Lund, Jeff Marks, Charles Marlen, Stephen Martin, L. McEvoy, K. McLaughlin, C. D. Mitchell, Gerald Mueller, Norma H. Nixon, Larry Nordell, Ted J. Nordhagen, Bart O'Gara, Chris Paige, R. L. Pearson, J. H. Phelps, Sandy Pletchet, T. Prellwitz, J. Regan, Katherine Roberts, James Rogers, A. Roogaard, Vicki Roth, Bill Ruediger, Dave Shea, G. Sipe, Jean E. Smith, Kalmar R. Stevenson, Don Stoecker, J. M. Story, Karen L. Stutzman, Marjorie Swanson, Jon Swenson, Maureen Theilerr, B. Thompson, Gordon Thompson, William L. Thompson, R. A. Thorbert, Dorinda Trautman, Dave Trochlell, S. Turman, Jamie Turner, Steven Turner, Bob Twist, Virginia Vincent, J. D. Waldo, Robert Wallace, Byron Weber, Winton Weydemeyer, Carl Wolf, Dave Worthington, Philip L. Wright, Anne Zimmermann.

Appendix A. List of Threatened, Endangered, and Sensitive Species (TES) and species requiring Supplemental Information (SI)

TES

Common Loon American White Pelican White-faced Ibis Trumpeter Swan Harlequin Duck Bald Eagle Northern Goshawk Ferruginous Hawk Peregrine Falcon Whooping Crane Snowy Plover Piping Plover Mountain Plover Least Tern Flammulated Owl Burrowing Owl Great Gray Owl Boreal Owl Black-backed Woodpecker Dickcissel Sage Sparrow Le Conte's Sparrow

SI

Double-crested Cormorant* Great Blue Heron Black-crowned Night Heron* Mute Swan Franklin's Gull Ring-billed Gull California Gull Caspian Tern' Common Tern' Forster's Tern Eastern Screech-owl Western Screech-owl Northern Flicker⁺ Cassin's Kingbird Yellow-rumped Warbler⁺ Dark-eyed Junco⁺ Northern Oriole⁺ Rosy Finch⁺

TES - Threatened, Endangered or Sensitive species. Please provide information on precise location, numbers of individuals, date of observation and details on nesting, if any.

SI - Species poorly known; little information on habitat preferences; questions on distribution; *subspecies distribution requested; *nesting colonies. Please provide date of observation, information on precise location, habitat, nesting details, if any.

Appendix B. Neotropical Migratory Bird Species in Montana

Killdeer Mountain Plover Marbled Godwit Long-billed Curlew Willet Spotted Sandpiper **Upland Sandpiper** Turkey Vulture Golden Eagle Northern Harrier Sharp-shinned Hawk Cooper's Hawk Northern Goshawk Broad-winged Hawk **Red-tailed Hawk** Swainson's Hawk Ferruginous Hawk Osprey American Kestrel Merlin Prairie Falcon Peregrine Falcon Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Short-eared Owl Long-eared Owl Flammulated Owl Burrowing Owl **Common Poorwill** Common Nighthawk Black Swift Chimney Swift Vaux's Swift White-throated Swift Black-chinned Hummingbird Ruby-throated Hummingbird Calliope Hummingbird Broad-tailed Hummingbird **Rufous Hummingbird** Belted Kinafisher Lewis' Woodpecker Williamson's Sapsucker Yellow-bellied Sapsucker Red-naped Sapsucker Eastern Kingbird Cassin's Kingbird

Western Kingbird Great Crested Flycatcher Olive-sided Flycatcher Eastern Wood-Pewee Eastern Phoebe Say's Phoebe Hammond's Flycatcher Dusky Flycatcher Least Flycatcher Willow Flycatcher Cordilleran Flycatcher Horned Lark Tree Swallow **Purple Martin** Violet-green Swallow Northern Rough-winged Swallow **Bank Swallow** Cliff Swallow **Barn Swallow** Brown Creeper House Wren Marsh Wren Sedge Wren Rock Wren **Ruby-crowned Kinglet** Eastern Bluebird Western Bluebird Mountain Bluebird Townsend's Solitaire Veery Swainson's Thrush Hermit Thrush American Robin Loggerhead Shrike Northern Mockingbird Gray Catbird Sage Thrasher Sprague's Pipit Water Pipit Cedar Waxwing Yellow-throated Vireo Bell's Vireo Solitary Vireo **Red-eved Vireo** Warbling Vireo Tennessee Warbler Orange-crowned Warbler

Nashville Warbler Black-and-white Warbler Yellow-rumped Warbler Townsend's Warbler Yellow Warbler MacGillivray's Warbler Wilson's Warbler Ovenbird Northern Waterthrush Common Yellowthroat American Redstart Yellow-breasted Chat **Rose-breasted Grosbeak** Black-headed Grosbeak Lazuli Bunting Indigo Bunting Dickcissel **Rufous-sided Towhee** Green-tailed Towhee Grasshopper Sparrow Baird's Sparrow Vesper Sparrow Savannah Sparrow Lark Sparrow Sage Sparrow **Chipping Sparrow** Clay-colored Sparrow Brewer's Sparrow Dark-eyed Junco White-crowned Sparrow Fox Sparrow Song Sparrow Swamp Sparrow Lincoln's Sparrow Chestnut-collared Longspur McCown's Longspur Lark Bunting Bobolink Western Meadowlark **Red-winged Blackbird** Yellow-headed Blackbird Brewer's Blackbird **Orchard Oriole** Northern Oriole Western Tanager Scarlet Tanager Pine Siskin American Goldfinch Cassin's Finch

Appendix C. Hypothetical Species List

Some of these sighting are very old and probably should not be considered as species likely to be found in Montana. They have been carried over from the Third Edition pending further review by the editors and the verification committee. The newer records have not been reviewed by the verification committee and may be incorporated into the Fifth Edition.

Common Eider. L24: 1907. Eskimo Curlew. L12: 1858, 1862, 1973. Spotted Owl. L2: 1927. L3: 1959, 1976. 'Yellow-bellied Sapsucker. QLL 3C: 1991. Bewick's Wren. L15: 1973. L25: 1973. Phainopepla. L3 Bell's Vireo. L12: 1858. Blue-winged Warbler. L41: 1984. Virginia's Warbler. L37: 1976. 'Painted Redstart. QLL 25A: 1987. 'Cardinal. QLL 42C: 1987. Painted Bunting. L43: 1978.

^{*}new since the Third Edition

Appendix D. Breeding Status Code Definitions

B Use of the "B" to designate breeding requires "hard evidence." A "B" can be hard to get. Do not assume breeding simply by presence or behavior. Use the "B" only if one of the following criteria are met.

1. Occupied nest. Adults entering or leaving nest site in circumstances indicating an occupied nest (includes high nests or nest-holes, the contents of which cannot be seen) or adult incubating or brooding.

2. Recently fledged young (of altricial species) incapable of sustained flight, or downy young (of precocial species) restricted to the natal area by dependence on adults or limited mobility.

3. Attending young; adult carrying food or fecal sac for young, or feeding recently fledged young.

4. Used nest or eggshells found (Caution: identification must be convincing if such records are to be accepted).

5. Nest with egg(s) which can be clearly identified. The presence of cowbird eggs or young is confirmation of breeding for both cowbird and host species.

6. Nest with young, seen or heard, which can be clearly identified.

b Breeding is supported by circumstantial evidence.

1. Singing males, pairs or territorial birds observed in suitable nesting habitat during the species' breeding season.

- 2. Courtship behavior or copulation.
- 3. Adults visiting a probable nest site.

4. Agitation behavior, distraction display, injury feigning, or anxiety calls from an adult.

5. Nest building.

6. Physiological evidence of breeding (brood patch or eggs in oviduct) based on bird in hand.

- t No evidence of breeding. Transients; migrants; or mobile, wide ranging species that exhibit no breeding behavior at the time of observation.
- No records

Appendix E. Rare Bird Rep (For Species Annotat	
Species:	Observer's Name:
Date Observed:	Address:
Reporter's Name:	
Date Written: Other Observers:	Telephone No:
QLL: Nearest Town/Landmar Specific Location:	
TownshipRangeSection Describe the Habitat:	
Plumage(Circle) Sex M Adult Immature F Subadult Juvenal United in the second secon	k tting Scope Unaided Eye ration of Observation: ? Where and when:

This Report was Written: ___ During or right after observation ____ From memory ___hrs/__days later.

Describe the bird you observed. Record only field marks and behaviors you actually saw. State size (compared to similar size common bird). Record relevant information such as color, body shape, bill, legs, voice, behavior, no. of individuals, sex. Use back of form if more space is needed. Please include any photos or drawings. Print or type clearly.

Send your report to: Montana Bird Distribution Update Natural Heritage Program 1515 East Sixth Avenue Helena, MT 59620

4th Ed 1992

Quarter Latilong (QLL) Recording Sheet Appendix F.

PH:	Location												
	Date						. 0						
Address	Status(B,b,t, <u>W</u> ,w)												
Q11Name	Common Name												

INDEX

The last word of the common name is indexed for species found in this book. Several topics and subjects have been included from the text.

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NOTES

---- Response Form ----

Please tear out, complete, and return to: Montana Bird Distribution c/o Montana Natural Heritage Program 1515 E. 6th Ave. Helena, MT 59620

FORMAT

1. Are the maps in this book intelligible and useful?

- 2. Please indicate which format you would prefer for the next edition of this book:
 - a. whole latilong records only (no quarters)
 - b. same as this book
 - c. quarter latilong records only (no centers)
 - d. other:

3. Do you have any comments or suggestions regarding the maps of winter records?

4. Do you have any comments or suggestions regarding the overall size and format of the maps and of the whole book?

DATA

- 5. Please indicate what kind of data you would prefer for the next edition of this book:
 - a. cumulative records of observations through time, as in the first three editions
 - b. only those observations reported since the previous edition (as discussed in the text)
 - c. other:

6. Would you recommend any additions to or deletions from the current set of "observation types" (B,b,t,w,W)?

7. Are there other kinds of data that you'd like to see in the next edition (e.g., spring arrivals, fall departures, abundance, habitats)? If yes, please describe.

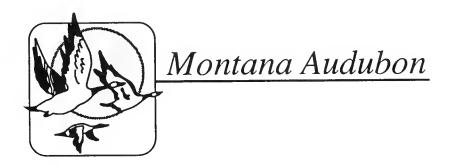
GENERAL

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- 8. How often do you think this book should be updated?
- 9. Would you prefer a fancier book (e.g., photos, graphics, nicer design, nicer paper)?
- 10. What can we do or provide to help you send us more data?
- 11. How could we improve the text in the book to make it more understandable or useful to you?

12. Anything else?

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