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ANNOTATED LIST OF LARGE PRAIRIE WETLANDS

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Canadian Wildlife Service

March, 1967

*This report is for use of the Canadian Wildlife Service and cooperating agencies as a compilation of timely information. The data are subject to revision; therefore, to avoid misunderstandings they should not be widely quoted.

Acknowledgements

The assistance of R. T. Sterling, biologist with Ducks Unlimited (Canada) at Saskatoon, is gratefully acknowledged. Information on wetlands on several map sheets, collected under his direction, was provided for inclusion in this report.

Introduction

There is a tendency to deal with waterfowl habitat management problems on a "piecemeal" basis. Changes in each habitat for waterfowl as a result of the hydrologic cycle, ecological succession and human activities should be evaluated in relation to all waterfowl habitats. Presently this is impossible as the location and relative value of all waterfowl habitats are not known. Systematic surveys of waterfowl habitats, such as the National Land Capability Inventory, are in progress. Unfortunately, until complete information is available there is a tendency to give waterfowl habitat management problems only "first aid" treatment. For example, the waterfowl habitats in the vicinity of Minnedosa, Manitoba are well known from many studies. Adverse effects of farming practices on waterfowl habitats may be cited as a problem there, and remedial programs initiated. Habitats possibly more valuable in the vicinity of Melfort, Saskatchewan or Viking, Alberta may be more drastically changed by the same farming practices but may be ignored because relative information is lacking.

There is thus need for information on relative value of all waterfowl habitats to provide perspective for immediate waterfowl management problems and for intermediate-term planning of waterfowl habitat management programs. It is assumed that long-term planning of waterfowl habitat management will be based on relative value of waterfowl habitats on land units as small as a quarter section which will eventually be available from surveys in progress. Ultimately these values should be

comparable within the framework of a management unit which may include all of North America, and for some species parts of Asia and South America. Presumably this task of providing comparable information will be accomplished by evaluating small physical units of land, aggregating those small units into larger ecological units, and then into political units until the continental level is reached. In this process of forming management units of various scales, ecological and political boundaries will not coincide frequently. The agricultural region of the Prairie Provinces referred to in this report consists of several ecological and political units, but it was considered a convenient place to start.

As wetlands must first be identified to evaluate and compare them, this report presents a list of wetlands, 640 acres or larger, which occur within the agricultural region of the Prairie Provinces. The list was prepared to begin a systematic accumulation of information so that evaluations of waterfowl habitat may be made within management units on a national scale. The data by which the relative value of wetlands may be judged are not complete, but the report is presented in this form as the list itself is timely information, and the blanks in the annotated remarks serve to emphasize gaps in knowledge judged to be needed for management of specific waterfowl habitats.

Procedures

Maps of scale 1:250,000 (Figure 1), when available, were scanned systematically by C. Jorgenson, S.P. Pryor, and S. Woynarski of the Canadian Wildlife Service. The wetlands were listed in order of their

occurrence from the southeast corner of each map. Space for abbreviated notes on use of the wetlands by migratory birds and other wildlife, the present management of the area, and its estimated acreage follow the name and location of the wetlands. Only wetlands in the 640-acres or greater size class shown on a particular map sheet appear on a page. The pages are numbered to refer to a particular map sheet and to allow for following pages listing wetlands of smaller size classes within the area covered.

Map sheets of scale 1:250,000 are not printed for the entire agricultural region of the prairies. When the desired maps were not available maps of scale 1:190,080 or 1:50,000 were used. The maps used and the basic information used in mapping are referred to. Acreage was estimated by comparison of wetlands boundaries shown on the maps with ruled grids.

Proposed measure of relative value: wildlife use

In the wildlife use table, column D refers to ducks of all species; G to geese of all species; C to sandhill cranes; O to other migratory birds including coots, rails, snipe, plus all species not hunted, and R refers to resident game including furbearers, big game mammals and game birds. The row SM refers to use in spring migration; AM refers to use in autumn migration, and row B refers to breeding use which would include use for moulting by migratory birds and, of course, year-round use by resident animals. Numerals within the table refer to numbers of animals and indicate rank in importance on a logarithmic scale. The numeral 1 for

example refers to 10 animals and includes use within the range from 1 to 50 animals; 2 refers to use by 100 animals and includes use within the range from 51 to 509 animals; 3 refers to use by 1,000 animals and includes use within the range from 510 to 5,099 animals. The maximum rank anticipated within a row and column would be 5, referring to 100,000 animals and a range from 51,000 to 500,000. Zero of course refers to no use, and a blank indicates lack of knowledge.

Theoretically at least, the sum of ranks within the table would provide an estimate of the overall rank in importance for the wetland with a range of ranks from 0 to a likely maximum of 65. This system assumes all animals and all uses are equal. For example, the occurrence of 10 whooping cranes in spring migration would appear as 1 in column 0, row SM. A wetland in which 10 muskrats occurred would be indicated by 1 in column R, row B. If no other animals occurred in either wetland, each would have an overall rank of 1. This limitation in ranking may be more apparent than real as it is unlikely that a wetland would be used by only one kind of animal. Thus wetlands which are valuable because of use by rare animals are also likely to be valuable because of use by larger numbers of other animals. Other factors which affect decisions on waterfowl habitat management programs such as accessibility of habitat for human use can easily be considered separately and superimposed upon the rank of a particular wetland.

Proposed measure of relative value: management

Present and past, but not potential, management of the wetlands was referred to when known. The symbols used are explained below.

Where possible the recorded symbols refer to presence (x) or absence (o) of a management condition.

<u>Symbols</u>	<u>Meaning</u>
D	wetland contains man-made developments such as drains, ditches, dikes, dams
I	wetland is intermittent; that is, if the wetland is ever completely dry, or if the wetland is less than four feet deep
CD	crop damage by migratory birds occurs within two miles, or by any other wildlife occurs within one-half mile of the wetland
H	hunting for migratory birds occurs within two miles, or for any other wildlife within one-half mile of the wetland
WR	water-based recreation including use by swimmers, boaters, fishermen, water-skiers, picnickers, campers or cottagers occurs on the wetland or land adjacent or both
A	agricultural use, including haying, grazing, or cultivation when dry, occurs on the wetland
S	wetland is a legally-described sanctuary or game preserve, or has legal limits on shooting within specified distances from water
O	some part of the wetland is owned by the Crown either in right of Canada or of a province

Discussion

Preliminary appraisal of wetlands which come to the attention of administrators as problems might be made from an annotated list such as the one put forward in this report. The information used to compare relative value of wetlands is not presented in sufficient detail for the management or research scientist. However, ranking the importance of wetlands on the basis of numbers and kinds of wildlife using them seems a logical basis for comparison. Information on the major factors affecting habitat management on a particular wetland would also be available from the annotated lists.

It is strongly recommended that similar annotated lists of wetlands be prepared for other political and ecological units of Canada. Annotated lists of wetlands are comparable to the annotated lists of plants and animals which are prepared for various areas of the country. It would be most effective from the viewpoint of the administrator's immediate needs if the lists were comprehensive of a particular size class such as all wetlands 640 acres or larger, and referring to extensive geographic areas such as a province, rather than a documentation of all wetlands of all size classes within a restricted geographic area. For information on a restricted geographic area the administrator can usually refer to appropriate topographic and other maps or aerial photographs. However there is presently no way that all large scale maps of an extensive geographic area such as a province or several provinces can be compared at once.

It is further suggested that additional annotated lists referring to the agricultural region of the Prairie Provinces be made of smaller size classes of wetlands. The size class categories of wetlands should be in a descending geometric progression which conforms to land units, such as 640 acres or larger, then wetlands 639 acres to 320 acres in size, then wetlands 319 acres to 160 acres in size and so on. The justification for such an approach is that some habitat management problems are identified with particular large wetlands. As wetlands decrease in size, so that they are totally within a land unit such as a quarter section, then the habitat management problem is likely to be referred to by the land unit or units involved.



Figure 1. Index to 1:250,000 scale maps used for inventory of wetlands 640 acres or larger.

62E.1

Map reference Weyburn 62E, 1:250,000, excluding Moose Mountain Provincial Park and I.R.# 70, photogrammetric 1948 & 1949.

Name	Wildlife use						Management							
	T	R	M	D	G	C	O	R	D	I	CD	H	WRA	S
Moose Mountain	11	8	2	B										
				AM										
				SM										
Gooseberry Lake	11	9	2	B									x	
				AM										
				SM										
No Name	10	11	2	B										
				AM										
				SM										
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Map reference Virden 62F, 1:250,000, excluding Turtle Mountain Forest Reserve, photogrammetric 1957-1964.

Map reference Brandon 62G, 1:250,000, photogrammetric 1958-1963

Map reference Winnipeg 62H, 1:250,000, excluding Sandilands Forest Reserve, no photogrammetric date, produced 1953.

Name	Wildlife use						Management								
	T	R	M	D	G	C	O	R	D	I	CD	H	WR	A	S
No Lakes				B											
				AM											
				SM											
				B											
				AM											
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Map reference Selkirk 62I, 1:250,000, excluding Lake Winnipeg and
I.R.#'s 3 & 4, photogrammetric 1948 & 1949.

Map reference Selkirk 62I.

Map reference Selkirk 621.3

Map reference Selkirk 62I

Map reference Neepawa 62J, 1:250,000, excluding Riding Mountain

National Park and Lake Manitoba, photogrammetric 1957-1963.

Map reference Neepawa 62J.

Map reference Riding Mountain 62K, 1:250,000, excluding Riding Mountain National Park, photogrammetric 1951-1963.

Map reference Riding Mountain 62K.

* Surveyed by Ducks Unlimited, do not appear on map 62K.

Map reference Not published 62L, sources of information - Qu'Appelle #120, 1:190,080, and Saskatchewan South Sheet, 1:760,320, excluding I.R.#'s 71,72,73,74,76,78,79, 81, and 82. Qu'Appelle reprinted 1950, and Sask. South Sheet produced 1963.

Map reference Not Published 62L.

* Surveyed by Ducks Unlimited, do not appear on map 62L.

Map reference Not Published 62L.

Map reference Yorkton 62M, 1:250,000, excluding Good Spirit Lake Provincial Park and I.R.#'s 65, 84, 89, photogrammetric 1963.

Map reference Yorkton 62M.

Map reference Yorkton 62M.

* Surveyed by Ducks Unlimited, do not appear on map 62M.

Name	Wildlife use					Management									
	T	R	M	D	G	C	O	R	D	I	CD	H	WRA	S	O
Sakwasew Lake (Mink)	33	10	2	B	2				Bb						
				AM											
				SM											
Fishing Lake	33	11	2	B	2				A						
				AM					8,000						
				SM					acres						
Foam Lake	31	12	2	B	2				x Cb						
				AM					1,500						
				SM					acres						
Little Quill Lake	33	13	2	B	2				Bb						
				AM					48,700						
				SM					acres						
Madderford Marsh	23	3	2	B	1				Bb						
				AM					4,540						
				SM					acres						
Rokeby Marsh	24	3	2	B	1	x			Ba						
				AM					1,332						
				SM			x		acres						
Horse Lake	27	12	2	B	2				A						
				AM					1,000						
				SM					acres						

Map reference Yorkton 62M.

Map reference Duck Mountain 62N, 1:250,000, excluding Duck Mountain Provincial Parks, photogrammetric 1957-1964.

Map reference Swan Lake 63C, 1:250,000, excluding Lake Winnipegosis
and I.R.#'s 65A, B,C,D,F & 66A, No photogrammetric date, produced 1960

Map reference Swan Lake 63C.

Map reference Hudson Bay 63D, 1:250,000, excluding Greenwater Lake Provincial Park, Northern Provincial Forest and Porcupine Provincial Forest, photogrammetric 1961.

Map reference Hudson Bay 63D.

Map reference Hudson Bay 63D.

Name	Wildlife use								Management						
	T	R	M	D	G	C	O	R	D	I	CD	H	WRA	S	O
No Name	1	3	9	2	B	1									
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Map reference Pasquia Hills 63E, 1:250,000, excluding Northern Provincial Forest, photogrammetric 1945 & 1946.

Map reference Foremost 72E, 1:250,000, excluding Cypress Hills

Provincial Park, photogrammetric 1950.

Map reference Foremost 72E.

Map reference Cypress 72F, 1:250,000, excluding Cypress Hills

Provincial Park, photogrammetric 1945 & 1946.

Map reference Cypress 72F.

Map reference Wood Mountain 72G, 1:250,000, photogrammetric 1962 & 1963.

Map reference Wood Mountain 72G.

Map reference Willow Bunch Lake 72H, 1:250,000, photogrammetric
1948 & 1949.

Map reference Willow Bunch Lake 72H.

Map reference Willow Bunch Lake 72H.

Map reference Regina 72I, 1:250,000, photogrammetric 1946, 1947 & 1949.

Excluding I.R.#'s 75, 75A, 79 & 80.

Name	T	R	M	Wildlife use					Management							
				D	G	C	O	R	D	I	CD	H	WRA	S	O	
Egg Lake	19	15	2	B	1					Cb						
	AM															
	SM									850						
Last Mountain Lake	21	21	2	B	3					A				P		
	AM															
	SM									55,040						
Buffalo Pound Lake	18	25	2	B	2					Ba						
	AM															
	SM									6,600						
Frederick Lake	12	28	2	B	4					Bb						
	AM															
	SM									1,200						
Old Wives Lake	12	28	2	B									x			
	AM															
	SM									81,600						
* Wascana Creek	15	18	2	B	2					Bb						
	AM															
	SM									1,000						
* Valeport Marsh	20	21	2	B	2					Cb						
	AM															
	SM									4,240						

Map reference Regina 721.

* Surveyed by Ducks Unlimited, do not appear on map 721.

Name	T	R	M	Wildlife use					Management							
				D	G	C	O	R	D	I	CD	H	WRA	S	O	
No Name	13	21	2	B	3					Cb						
				AM												
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Map reference Swift Current 72J, 1:250,000, photogrammetric 1956 & 1963

Map reference Swift Current 72J.

Map reference Prelate 72K, 1:250,000, no photogrammetric date,
compiled 1963.

Map reference Prelate 72K.

Map reference Prelate 72K.

Map reference Medicine Hat 72L, 1:250,000, excluding Suffield Military Reserve, no photogrammetric date, produced 1958.

Map reference Medicine Hat 72L.

Map reference Medicine Hat 72L.

Map reference Oyen 72M, 1:250,000, photogrammetric 1951

72M.2

Map reference Oyen 72M.

Map reference Oyen 72M.

Map reference Kindersley 72N, 1:250,000, no photogrammetric date,
compiled 1963.

Map reference Kindersley 72N.

Map reference Kindersley 72N.

Map reference

Kindersley 72N.

Name	T	R	M	Wildlife use					Management						
				D	G	C	O	R	D	I	CD	H	WRA	S	O
Street Lake	33	24	3	B	3				Bb						
	AM														
	SM								800	acres					
No Name	32	24	3	B	2				Cb						
	AM														
	SM								1,280	acres					
No Name	32	24	3	B					x						
	AM														
	SM								640	acres					
Teo Lake	28	24	3	B	1				Cb					x	
	AM														
	SM								1,410	acres					
Teo Lake	30	24	3	B					x						
	AM														
	SM								840	acres					
Dewar Lake	30	26	3	B	1				Bb					x	
	AM														
	SM								800	acres					
No Name	27	27	3	B											
	AM														
	SM								2,200	acres					

Map reference Kindersley 72N.

* Surveyed by Ducks Unlimited, do not appear on map 72N.

Map reference Rosetown 720, 1:250,000, excluding Dundurn Military Reserve, Pike Lake Provincial Park and I.R.# 94, photogrammetric 1959-1963.

Map reference Rosetown 720

Map reference Rosetown 720.

* Surveyed by Ducks Unlimited, do not appear on map 720

Name	T	R	M	Wildlife use					Management							
				D	G	C	O	R	D	I	CD	H	WR	A	S	O
No Name	27	14	3	B	2					Ca						
	AM															
	SM									4,500	acres					
McClean Lake	34	14	3	B	3					Cb						
	AM															
	SM									1,600	acres					
*	Brightwater Marsh	32	4	3	B	1				x	D	x	x		I	
	AM	x				x										
	SM	x								3,200	acres					
*	Torry Slough	31	13	3	B	2				x	Bb					
	AM															
	SM									900	acres					
*	No Name	34	3	3	B	4				Bb						
	AM															
	SM									640	acres					
*	No Name	28	15	3	B	2				Ca						
	AM															
	SM									2,000	acres					
*	No Name	29	13	3	B	2				D						
	AM															
	SM									1,980	acres					

Map reference Wynyard 72P, 1:250,000, excluding I.R.#'s 85, 86, 87, 88,
no photogrammetric date, compiled 1960.

Map reference Wynyard 72P.

* Surveyed by Ducks Unlimited, do not appear on map 72P.

Map reference Wynard 72P.

Map reference Melfort 73A, 1:250,000, excluding I.R.#'s 91 and 95,
photogrammetric 1961, 1963.

Map reference Melfort 73A.

* Surveyed by Ducks Unlimited, do not appear on map 73A

Map reference

Melfort 73A.

Map reference Saskatoon 73B, 1:250,000, excluding I.R.#'s 96, 97 & 102, photogrammetric 1958 and 1961.

Map reference Saskatoon 73B

Map reference Saskatoon 73B.

Map reference Saskatoon 73B.

Map reference North Battleford 73C, 1:250,000, excluding Keppel Forest Reserve, Manito Forest Reserve, and I.R.#'s 108, 109, 110, 111, 113, 114, 116. photogrammetric 1961 and 1963

Map reference North Battleford 73C.

Map reference Wainwright 73D, 1:250,000, excluding Camp Wainwright,
photogrammetric 1947.

Map reference Wainwright 73D.

Map reference Wainwright 73D.

Map reference Vermilion 73E, 1:250,000, excluding I.R.#'s 121,122 and 125, no photogrammetric date, produced 1959.

Map reference Vermilion 73E.

Map reference Vermilion 73E.

Map reference St. Walburg 73F, 1:250,000, excluding I.R.#'s 112E, 112B, 112F, 115B, 115C, 115D, 119, 120, 129, 159, 161, no photogrammetric date, produced 1959.

Map reference St. Walburg 73F.

Map reference St. Walburg 73F.

Map reference St. Walburg 73F.

Map reference Shellbrook 73G, 1:250,000, excluding Prince Albert National Park and I.R.#'s 101, 101A, 102, 103, 104, 106B, 106C, 117, 118, 118A and 191, no photogrammetric date, produced 1958

Map reference Shellbrook 73G.

Map reference Shellbrook 73G.

Map reference Shellbrook 73G.

Map reference Prince Albert 73H, 1:253,440, excluding Fort a La Corne Provincial Forest, Nisbet Provincial Forest, Emma Lake Provincial Forest, and I.R.#'s 94A, 99, 100, 101, 106A, no photogrammetric date, produced 1933.

Map reference Prince Albert 73H.

Map reference Green Lake 73J, 1:250,000, excluding Prince Albert National Park, photogrammetric 1961.

Name	T	R	M	Wildlife use					Management					 				
				D	G	C	O	R	D	I	C	D	H	W	R	A	S	O
Weyakin Lake	63	1	3	B														
				AM														
				SM														
Cheeyas Lake	62	1	3	B														
				AM														
				SM														
Home Hay Lake	62	2	3	B														
				AM														
				SM														
Elaine Lake	63	3	3	B														
				AM														
				SM														
Emmeline Lake	69	3	3	B											x			
part on 73J				AM														
				SM														
Little Emmeline Lake	69	4	3	B														
part of 73J				AM														
				SM														
Swan Lakes	67	4	3	B											x			
				AM														
				SM														

6,280 acres

4,920 acres

1,920 acres

1,320 acres

760 acres

8,920 acres

Map reference Green Lake 73J.

Map reference Waterhen River 73K, 1:250,000, excluding Meadow Lake Provincial Park and I.R.#'s 105, 105A, 124, 129, 129A, 129B, 130 161 and 161A, photogrammetric 1946-1948.

Map reference Waterhen River 73K.

Map reference Sand River 73L, 1:250,000, excluding I.R.#'s 122, 123
125, 125A, 128, 131, 149A, 149B and 167, photogrammetric 1948-1949.

Map reference Sand River 73L.

Map reference 73L. Sand River.

Map reference Lethbridge 82H, 1:250,000, excluding Waterton Lakes National Parks and I.R.#'s 147 and 148, photogrammetric 1938 and 1945.

Map reference Lethbridge 82H.

Map reference Gleichen 82I, 1:250,000, excluding I.R.# 146, no photogrammetric date, produced 1959.

Map reference Gleichen 821.

Map reference Kananaskis Lakes 82J, 1:250,000, photogrammetric 1947 & 1956.

Map reference Calgary 820, 1:250,000, excluding Banff National Park and Stony I.R., no photogrammetric date, compiled 1954.

Map reference Drumheller 82P, 1:250,000, photogrammetric 1945 and 1948

Map reference Drumheller 82P.

Map reference Red Deer 83A, 1:250,000, excluding I.R.#'s 137, 138 and 139, no photogrammetric date, produced 1958.

Map reference Red Deer 83A.

Map reference Red Deer 83A.

Map reference Rocky Mountain House, 83B, 1:250,000, excluding
Crimson Lake Provincial Park and I.R.#'s 202 & 203, no photogrammetric
date, compiled 1960.

Map reference Edson 83F, 1:250,000, excluding Jasper National Park,
no photogrammetric date, compiled 1960.

Map reference Wabamun Lake 83G, 1:250,000, excluding I.R.#'s 133 and 133A, no photogrammetric date, produced 1956.

Map reference Wabamun Lake 83G.

Map reference Edmonton 83H, 1:250,000, excluding Elk Island National Park, and I.R.#'s 134 and 135, photogrammetric 1947.

Map reference Edmonton 83H.

Map reference

Edmonton 83H.

Map reference Tawatinaw 83I, 1:250,000, photogrammetric 1950.

Map reference Tawatinaw 83I.

Map reference Tawatinaw 83I.

Map reference Tawatinaw 831.

Map reference Tawatinaw 831.

Map reference Whitecourt 83J, 1:250,000, no photogrammetric date,
compiled 1960.

Map reference Iosegun Lake 83K, 1:250,000, no photogrammetric date,
compiled 1962.

Map reference Ioseguh Lake 83K.

Map reference Grand Prairie 83M, 1:250,000, excluding I.R.# 152B,
photogrammetric 1951-1962.

Name	T	R	M	Wildlife use					Management						
				D	G	C	O	R	D	I	CD	H	WR	A	S
Clairmont Lake	73	5	6	B											
				AM											
				SM											
Bear Lake	72	7	6	B											
				AM											
				SM											
Saskatoon Lake	72	7	6	B											
				AM											
				SM											
La Glace Lake	73	8	6	B											
				AM											
				SM											
Wilkin Lake	72	9	6	B											
				AM											
				SM											
Sinclair Lake	74	12	6	B											
				AM											
				SM											
Updike Lake	74	12	6	B											
				AM											
				SM											

1,560 acres

7,240 acres

1,720 acres

1,560 acres

920 acres

680 acres

680 acres

Map reference Winagami 83N, 1:250,000, excluding I.R.#'s 150A & 154,
no photogrammetric date, compiled 1950.

Map reference Winagami 83N.

Map reference Lesser Slave Lake 830, 1:250,000, excluding Lesser Slave Forest Reserve and I.R.#'s 150E, 150F, 150G, 150H, 155 & 155A, photogrammetric 1948-1949.

Map reference Lesser Slave Lake 830.

Map reference Lesser Slave Lake 830.

Map reference Peace River 84C, 1:250,000, excluding I.R.# 115A,
no photogrammetric date, compiled 1962.

Map reference Peace River 84C.

Map reference Clear Hills 84D, 1:250,000, no photogrammetric date,
produced 1957.