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A SELECTED BIBLIOGRAPHY OF THE LIFE REQUIREMENTS OF COLONIAL NE--ETC(U)
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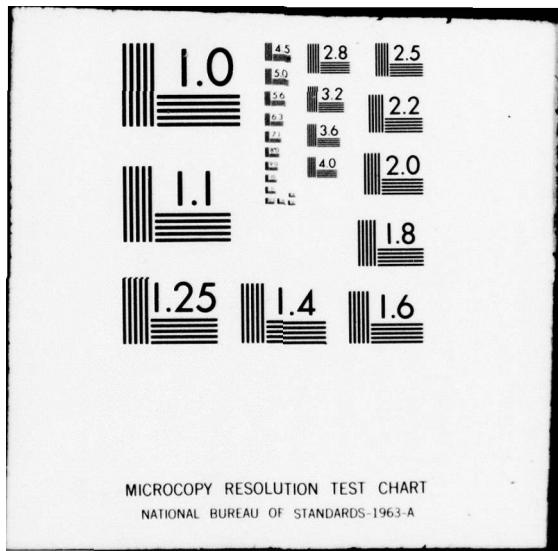
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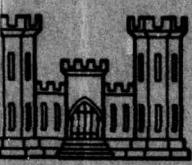
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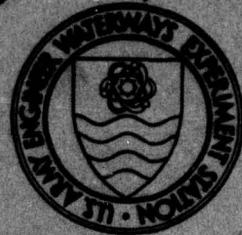


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DREDGED MATERIAL RESEARCH PROGRAM



MISCELLANEOUS PAPER D-78-5

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A SELECTED BIBLIOGRAPHY OF THE LIFE REQUIREMENTS OF COLONIAL NESTING WATERBIRDS AND THEIR RELATIONSHIP TO DREDGED MATERIAL ISLANDS

by

12 Mary C. Landin

Environmental Laboratory

U. S. Army Engineer Waterways Experiment Station
P. O. Box 631, Vicksburg, Miss. 39180

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58 p.

11 Sept. 29, 1978
Final Report

Approved For Public Release; Distribution Unlimited

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WES-MP-D-78-5

Prepared for Office, Chief of Engineers, U. S. Army
Washington, D. C. 20314

Under DMRP Work Unit No. 4F04

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DEPARTMENT OF THE ARMY
WATERWAYS EXPERIMENT STATION, CORPS OF ENGINEERS
P. O. BOX 631
VICKSBURG, MISSISSIPPI 39180

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31 October 1978

SUBJECT: Transmittal of Miscellaneous Paper D-78-5

TO: All Report Recipients

1. The report transmitted herewith represents the results of one of a series of research efforts (work units) undertaken as part of Task 4F (Island Habitat Development) of the Corps of Engineers' Dredged Material Research Program (DMRP). Task 4F was part of the Habitat Development Project of the DMRP and had as its objective investigating, evaluating, and testing methodologies for habitat creation and management on dredged material islands.
2. Island habitat development has been studied by the DMRP throughout the United States through an evaluation of vegetation succession and animal use of existing dredged material islands. The most significant wildlife aspect of these islands is their use by colonial nesting sea and wading birds (such as gulls, terns, egrets, herons, ibises, and pelicans). This wildlife resource, although generally inadvertently created, presents a significant opportunity for habitat management and development which is consonant with continued dredged material disposal.
3. This report (Work Unit 4F04) presents an extensive bibliography of pertinent research on the life requirements of colonial nesting waterbirds in the United States and their relationship to dredged material islands. Additionally, selected references regarding vegetation and soils on dredged material islands are presented.
4. The bibliography supplements a series of research efforts produced by the DMRP under Task 4F. A national perspective is presented in Technical Report DS-78-18, entitled "Development and Management of Avian Habitat on Dredged Material Islands" (4F03), which synthesizes island habitat research in New Jersey (4F01D), the Great Lakes (4F01A), North Carolina (4F02), Florida (4F01C), Texas (4F01B), the Pacific Northwest (4F01E), and the Upper Mississippi River (4F01F).

A handwritten signature in black ink, appearing to read "John L. Cannon".
JOHN L. CANNON
Colonel, Corps of Engineers
Commander and Director

Unclassified

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20. ABSTRACT (Continued).

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- States are included. This report provides the reader access to little-known sources and gives localized data on waterbird species that are not otherwise readily available. References from years 1844 to 1978 are included.



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PREFACE

This report was written as part of Task 4F, entitled "Island Habitat Development," of the Habitat Development Project (HDP), Dredged Material Research Program (DMRP), for the Office, Chief of Engineers, at the U. S. Army Engineer Waterways Experiment Station (WES), Vicksburg, Mississippi.

Manager of Task 4F was Ms. Mary C. Landin, who prepared this report. Work progressed under the general supervision of Dr. H. K. Smith, Manager of the HDP, Dr. Roger T. Saucier, Special Assistant for the DMRP, and Dr. John Harrison, Chief, Environmental Laboratory.

Commander and Director of WES during the preparation of this report was Colonel John L. Cannon, CE. Technical Director was Mr. F. R. Brown.

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A SELECTED BIBLIOGRAPHY OF THE LIFE REQUIREMENTS OF
COLONIAL NESTING WATERBIRDS AND THEIR RELATIONSHIP
TO DREDGED MATERIAL ISLANDS

PART I: INTRODUCTION

1. Colonial nesting waterbirds are recognized as a unique group of nongame migratory species that have definite and often limiting habitat requirements. Historically, populations of the colonial waterbirds covered in this report numbered in the tens of millions, existing throughout swamps, marshes, lake and river systems, and coastal areas. In south Florida alone, waterbird populations have declined from 2,500,000 in 1870 to 1,500,000 in 1935, 300,000 in 1960, and finally to 150,000 in 1974 (Crowder 1974). Initial population declines resulted primarily from shooting the birds to obtain feathers for the millinery trade. Declines of the past 60 years have been the result of man's destruction of their feeding and nesting habitats. In recent years this decline has been slowed and stabilized somewhat, but some species are still experiencing habitat loss and will continue to do so unless steps are taken to prevent further inroads by man. Adult population levels of these species in the United States are presently estimated at no more than 5,000,000, even though these species are now protected by Federal law.

2. A research effort was undertaken as Task 4F, Island Habitat Development, of the Dredged Material Research Program, sponsored by the Office, Chief of Engineers, and conducted by the U. S. Army Engineer Waterways Experiment Station, to determine the use of dredged material islands by colonial waterbirds. An estimated 2,000,000 of these birds were found to be nesting annually on these islands, and in some regions, waterbirds have been nesting on dredged material islands for as long as 50 years (Anderson 1978, Mills 1934). Several of these species are endangered, threatened, or rare throughout large parts of their ranges. A report has been prepared that synthesizes this research and sets forth guidelines for developing and managing dredged material islands

(Soots and Landin 1978). The reader is referred to that report for detailed habitat requirements and management techniques.

3. This document is a companion report to Soots and Landin (1978). It presents bibliographies of pertinent research on the life requirements of colonial waterbirds in the United States and their relationship to dredged material islands (and man-made sites) in Corps-maintained waterways. Selected references from Canada, Europe, and Africa that pertain to related or U. S.-introduced waterbird species are listed as well.

4. Sources (total of 181) of these references are from the journals, publishers, institutions, agencies, and environmental publications that are listed in Table 1. The compiled references provide the reader with guidance to little-known sources and give localized data on waterbird species that are not otherwise readily available. References from years 1844 to 1978 are included.

Table 1
Sources of Bibliographical References
in the Report

Alabama Birdlife	Country Life in America
American Association for the Advancement of Science	Cranbrook Institute of Science
American Birds	Davenport Public Museum
American Journal of Botany	Delaware Valley Ornithological Club
American Midland Naturalist	Denver Wildlife Research Center
American Ornithologists' Union	Dover Reprint Publishers
Animal Behavior	EBBA News
Auburn University	Duke University
Audubon Field Notes	Ecological Monographs
Audubon Magazine	Ecology
Audubon Research Reports	Everett Community College
Auk	Evolution
Avian Diseases	Flicker
Behavior	Florida Academy of Science
Biological Conservation	Florida Field Naturalist
Bird-Banding	Florida Institute of Oceanography
Bird-Lore	Florida Naturalist
Bird Study	Florida Science
Blue Jay	Florida State Museum
Boston Society of Natural History	Geographic Review
Botanical Society of Edinburgh	Great Lakes Basin Commission
British Birds	Gulf South Research Institute
British Columbia Provincial Museum	Hillsborough Community College
Bureau of Sport Fisheries and Wildlife	Houston Geological Society
California Department of Fish and Game	Ibis
Campbell College	Immerson Science
Canadian Field-Naturalist	Inland Bird-Banding News
Canadian Wildlife Service	Institute of Marine Science
Cassinia	Iowa Bird Life
Central Michigan University	Iowa State University
Chat	International Ornithologists Congress
Chicago Ornithological Society	Jack-Pine Warbler
Coastal Zone Management Journal	J. Elisha Mitchell Scientific Society
Coastal Zone Resources Corporation	Kingbird
College of William and Mary	Linnaean Society
Colonial Waterbird Group	Loon
Colorado-Wyoming Academy of Science	Louisiana Conservation
Condor	Louisiana State University
Cornell University	Luther College
	Massachusetts Audubon Newsletter
	Memoir

(Continued)

Table 1 (Continued)

Michigan State University	Miami Geological Society
Migrant	St. Louis Webster Grove Nature
Minnesota Academy of Sciences	Study Society
National Aeronautics and Space	Science
Administration	Seattle Audubon Society
National Audubon Society	Smithsonian Institution
National Forest and Wildlife	Southeastern Game and Fish Com-
Laboratory	mission Conferences
National Park Service	Southern Weed Scientific Society
National Technical Information	Southwest Naturalist
Service	Stanford University
Nature	Tennessee Academy of Science
New College	Texas A&I University
New Jersey Audubon	Texas A&M University
New Jersey Birds	Texas Annual Fish-Eating Bird
New Jersey Department of Natural	Surveys
Resources	Texas Department of Highway and
New Jersey Nature News	Public Transportation
New Jersey Outdoors	Texas Department of Parks and
New Jersey State Museum	Wildlife
North American Wildlife and Natural	Texas Ornithological Society
Resources Conferences	Texas Resource Foundation
North Carolina Sea Grant Program	The Coastal Society
North Carolina State University	The Marine Newsletter
North Carolina Wildlife	The Wildlife Society
North Carolina Wildlife Resource	The Veliger
Commission	Tortugas Laboratory
Northwest Science	University of Florida
Nuttall Ornithological Club	University of Maryland
Ohio State University	University of Miami
Okamakierie	University of Michigan Zoology
Oologist	Museum
Oregon Institute of Marine Biology	University of Minnesota
Oregon State University	University of North Carolina
Oriole	University of Oregon
Ornis Fennica	University of Southern Florida
Ornis Scandinavia	University of Tennessee
Ornithologist and Oologist	University of Texas
Ostrich	University of Utah
Passenger Pigeon	University of Washington
Patuxent Wildlife Research Center	University of Wisconsin
Philadelphia Academy of Science	Upper Mississippi River Conserva-
Popular Science	tion Committee
Princeton University	Urner Ornithological Club
Raven	U. S. Air Force Office of Scien-
Rutgers University	tific Research

(Continued)

Table 1 (Concluded)

U. S. Army Engineer District, Detroit	U. S. Environmental Science Service Administration
U. S. Army Engineer District, Galveston	U. S. Fish and Wildlife Service
U. S. Army Engineer District, Philadelphia	U. S. Forest Service Annual Non- Game Symposiums
U. S. Army Engineer District, St. Louis	U. S. National Marine Fisheries Service
U. S. Army Engineer District, St. Paul	Washington Department of Ecology
U. S. Army Engineer District, Seattle	Washington Wildlife
U. S. Army Engineer District, Wilmington	Webster Birds
U. S. Army Engineer North Central Division, Chicago	Western Birds
U. S. Army Engineer Waterways Experiment Station	Wilson Bulletin
U. S. Department of Agriculture	Wisconsin Department of Natural Resources
	Wisconsin National History Society
	Wisconsin Society for Ornithology

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PART III: VEGETATION, SOILS, AND ENVIRONMENTAL
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Landin, Mary C

A selected bibliography of the life requirements of colonial nesting waterbirds and their relationship to dredged material islands / by Mary C. Landin. Vicksburg, Miss. : U. S. Waterways Experiment Station ; Springfield, Va. : available from National Technical Information Service, 1978.

52 p. : 27 cm. (Miscellaneous paper - U. S. Army Engineer Waterways Experiment Station ; D-78-5)

Prepared for Office, Chief of Engineers, U. S. Army, Washington, D. C., under DMRP Work Unit No. 4F04.

Literature cited: p. 52.

1. Birds -- Bibliography.
 2. Colonial birds -- Bibliography.
 3. Dredged material -- Bibliography.
 4. Environmental effects -- Bibliography.
 5. Islands (Landforms).
 6. Vegetation -- Bibliography.
 7. Waterbirds -- Bibliography.
- I. United States. Army. Corps of Engineers. II. Series: United States. Waterways Experiment Station, Vicksburg, Miss. Miscellaneous paper ; D-78-5.

TA7.W34m no.D-78-5