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Item ID Number 02992 ☐ **Not Scanned**

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Report/Article Title An Introduction to the Literature of the Effects of Biocides on Wildlife and Fish: A Select Bibliography

Journal/Book Title

Year 1964

Month/Day September

Color ☐

Number of Images 31

Description Notes Note on cover of typescript: "This is the last copy". "(Copies of this Bibliography may be obtained from: The Department of Biology, University of Alberta at Calgary, Calgary, Alberta, Canada.)"

AN INTRODUCTION TO THE LITERATURE OF
THE EFFECTS OF BIOCIDES ON WILDLIFE AND FISH:

A Select Bibliography

September, 1964

This is the last copy.
(Copies of this Bibliography may be obtained from: The
Department of Biology, University of Alberta at Calgary,
Calgary, Alberta, Canada.)

Introduction.

Toxic chemicals (commonly called pesticides, insecticides or, more recently and broadly, biocides) are now widely used in Canada in attempts to control insects which prevent the achievement of maximum production in agriculture or that are damaging to forest trees. This compilation is a Select Bibliography of publications reporting the effects that these chemicals are having upon populations of wild animals, particularly fish and birds.

It is intended chiefly to be of assistance to wildlife and fishery biologists, who may not have appreciated the extent of the studies already published, but it should also be of interest to many members of the Canadian general public. To a considerable extent the reader will be able to assess for himself, while glancing down the list of titles, the extent of the effects that toxic chemicals have already been shown to have upon fish and wildlife. It is hoped that the Bibliography will enable the person who wishes to study the problem further to obtain the original reports through his local departmental or public library, or through the nearest university library, and that he will then be able to read the detailed facts for himself.

Most of the research reports so far published have emanated from the United States and Great Britain. Only a few estimates have so far been made in Canada and only a small amount of research is currently being done here, though more is anticipated in the near future. It is very necessary that the existing lack of knowledge of the residues load being carried by the environment (soil and water) and by the living creatures of this country be remedied immediately. The establishment of the National Biocide Residues Registry by the Canadian Wildlife Service in Ottawa will be a major contribution to improved communication between scientists in the fields of agriculture, forestry, health, fisheries and wildlife. It may also result in an improved public understanding of, and responsibility towards, the hazard now existing for human, as well as animal, life.

It was decided, with regret, to omit references to the literature from countries other than Canada, Great Britain and the United States for lack of space. An index, or list of contents, follows on the next page. In the case of the Canadian provinces the provisional titles of some research in progress or not yet published, or of papers of which the references have not been fully ascertained, are included, the titles being in square brackets. For the information quoted on these titles I am indebted to Dr. John L. George of the United States and Dr. F. Graham Cooch of the Canadian Wildlife Service.

Abbreviations:---

WR	<u>Wildlife Review</u> (U.S. Fish & Wildlife Service, Patuxent Wildlife Research Center, Laurel, Maryland).
JWM	<u>Journal of Wildlife Management</u> (The Wildlife Society).
TNAWC	<u>Transactions, North American Wildlife Conferences</u> (The Wildlife Society).
TAFS	<u>Transactions, American Fisheries Society.</u>
PACSEAGFC	<u>Proceedings, Annual Conferences South Eastern Association of Game & Fish Commissioners.</u>
USFWS	U.S. Fish & Wildlife Service.
USDA	U.S. Department of Agriculture.
USPHS	U.S. Public Health Service.
CSWFB	Canadian Society of Wildlife & Fishery Biologists.

[At the right hand end of the last line of many citations may be found a bracket-enclosed cross-reference to a brief abstract of the paper which may be located in Wildlife Review, Ibis, Auk, Pesticide Progress (see page 2), or etc. E.g.: (WR 87: 15)]

Also available:

out of print.

[This, 57 page, compilation—quotations from the published literature, and covering acute poisoning, and chronic effects; pollution of the soil and natural waters; controls, legislation and research; resistance integrated control and biological control—is also available from the same address: The Department of Biology, University of Alberta at Calgary, Calgary, Alberta].

A. MAJOR SURVEYS OF THE TOXICITY OF PESTICIDES

(All Countries).

1956. Effects of Modern Insecticides on Mammals, Birds and Insects. Proceedings and Papers, 5th Technical Meeting, International Union for the Protection of Nature, Copenhagen, 1954: pp. 86-170 (Present Address: International Union for the Conservation of Nature, Morges, Switzerland). (WR 87:15)
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1960. George, J.L. Some Primary and Secondary Effects of Herbicides on Wildlife. In: Herbicides and their Use in Forestry. Pennsylvania State University, Forestry Symposium: 40-73. (WR 107:9)
1960. Hayes, W.J. Pesticides in Relation to Public Health. Annual Review of Entomology 5: 379-404.
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- 1962) — Carson, Rachel. Silent Spring. Boston: Houghton Mifflin Co. (1962);
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[Sections include: Effects on Wildlife; Effects on Sport Fisheries; Effects on Commercial Fisheries; Recommendations for Minimizing Dangers of Pesticides to Fish and Wildlife].
(WR 106:7)
1962. RESIDUE REVIEWS. New York: Academic Press (4 volumes so far published).
1963. Hayes, W.J. Clinical Handbook on Economic Poisons. U.S.Public Health Service Publication No. 476 (144 pp.). Washington: Government Printing Office. *Issue*
1963. Pesticide-Wildlife Studies: A Review of Fish and Wildlife Service Investigations during 1961 and 1962. U.S.Fish & Wildlife Service, Circular 167. (109 pp.).
[Sections include: Commercial Fisheries Investigations; Sport Fishery Investigations; Wildlife Studies, Denver Wildlife Research Center; Wildlife Studies, Patuxent Wildlife Research Center; Pesticide-Wildlife Studies by State, Provincial, or University Personnel, and by Cooperative Wildlife Research Units; Recommendations for Minimizing Dangers of Pest Control and Pesticides to Fish and Wildlife].
(WR 111:5)
(The Recommendations listed are reprinted in PESTICIDE PROGRESS (Ottawa) 1(5):161-165).
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B. REPORTS OF THE EFFECTS OF BIOCIDES UPON FISH & WILDLIFE.

1. CANADA.General:

[See also Papers by B.P.Beirne, A.W.A.Brown and A.D.Pickett under individual Provinces and under the Section on Insect Resistance, Biological Control etc. (Section C)]

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Nova Scotia:

[Other papers by A.D. Pickett on Biological Control may be found in the sections Canada: General and Insect Resistance, Biological Control etc.]

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[It is curious that almost nothing has been published independently, i.e. outside of more general reports, on the effects of biocides on ducks, geese, swans, shorebirds and other waterfowl. These groups demand immediate study. Canadian examples are mentioned in Pesticide-Wildlife Studies (1963) on p. 2, and in Charnetski (1964) on p. 5 of this compilation]

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Birds of Prey:

[The literature on the effects of biocides on Birds of Prey is even more extensive for Great Britain (pp. 10-11) and for Europe (see especially the Dutch item below) than it is for North America, where it is of a scattered nature and is devoted almost exclusively to the decline of the Bald Eagle. The significance of the decline in Birds of Prey and of the high infertility, abnormal behaviour and high residue levels in Birds of Prey cannot be over-emphasised. It indicates what is happening at the end of one major Food-Chain. The Dutch reference follows:--

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(The entire issue of June 1963 of Het Vogeljaar is devoted to the decrease of Birds of Prey. See item B 52 (on p. 21) of "The Widespread Pollution..... An Introduction to the Subject through Direct Quotations from Published Reports" (Myres, 1964), the companion to this Bibliography)].

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In addition to this, references to effects of biocides on mammals do occur both in the General Reviews and General Effects sections and also in other sections where the main noticeable effect was on some other group, e.g. birds. In general it seems that mammals are more resistant to the effects of biocides, but so long as a certain dosage or residue is affecting another group than the mammals the effects on the former must be considered serious enough in themselves to warrant action.]

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