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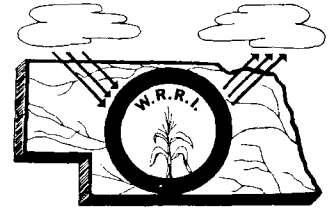
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WATER RESOURCES NEWS

NEBRASKA WATER RESOURCES RESEARCH INSTITUTE
212 AGRICULTURAL ENGINEERING BUILDING

THE UNIVERSITY OF NEBRASKA
LINCOLN, NEBRASKA 68503



Volume 1 Number 6

October, 1969

F.Y. 1971 BASIC ALLOTMENT PROJECT DEADLINE

The Nebraska Water Resources Research Institute is now prepared to receive basic allotment proposals under the Title I program for fiscal year 1971. The deadline for submitting such proposals to the Institute is December 15, 1969. Complete information on the preparation of proposals is available from the Institute Director's office.

It is suggested that all prospective principal investigators contact the Institute Director for a preliminary discussion of their proposed research before actually writing the proposal. This will eliminate many bottlenecks and will speed the procedure considerably.

DATA BANK ADVISORY COMMITTEE APPOINTED

BY GOVERNOR TIEMANN

Governor Norbert T. Tiemann announced the following appointments to the Technical Advisory Committee to the Natural Resources Data Bank. LB-384, enacted by the 1969 Legislature, authorized the Nebraska Soil and Water Conservation Commission to establish, maintain, and administer such a data bank and further authorized the Governor to establish the Technical Advisory Committee.

Appointed to the Committee, effective December 25, 1969, to serve at the pleasure of the Governor, were:

Doug Bereuter, State Planning Director
for the State of Nebraska

Dan Jones, Jr., Director of the Department
of Water Resources for the State of Nebraska

Vince Dreeszen, Director
Conservation and Survey Division
University of Nebraska
Nebraska Hall
Lincoln, Nebraska 68508

Dr. Warren Viessman, Jr., Director
Nebraska Water Resources Research Institute
212 Ag Engineering Building
University of Nebraska East Campus
Lincoln, Nebraska 68503

T. A. Filipi
Environmental Health Services
Department of Health for the State of Nebraska

M. O. Steen, Director
Nebraska State Game and Parks Commission

Robert McManus, Director
Department of Administrative Services for
the State of Nebraska

Mr. Paul Harley
Missouri River Basin Planning Officer
U. S. Department of the Interior
P. O. Box 428
Omaha, Nebraska 68101

Mr. Keith Myers
State Conservationist
Soil Conservation Service
134 South 12th Street
Lincoln, Nebraska 68508

Mr. Charles Cocks
U. S. Army Corps of Engineers
P. O. Box 103 - Downtown Station
Omaha, Nebraska 68101

NATIONAL SYMPOSIUM ON DATA AND INSTRUMENTATION

FOR WATER QUALITY MANAGEMENT

The American Water Resource Association is one of 16 co-sponsors for a National Symposium on Data and instrumentation for Water Quality Management to be held at the University of Wisconsin, Madison, July 21-23, 1970. The program chairman is Irving Grossman, New York State Department of Health, Division of Pure Waters, 84 Holland Avenue, Albany, New York 12208.

FUND CUTBACK ON WATER PROJECTS

The 75 percent cutback in Federal construction programs plus other cutbacks in water resource programs are coming under fire from Congress and state and local officials. For example, Sen. Stuart Symington (Missouri) indicated that projects under way may come to a standstill when present contracts expire. The House Appropriations Committee stated that "The budget for Fiscal Year 1970 submitted for the construction program of water resource agencies reflects drastic reductions totalling about \$200 million from the appropriations level for Fiscal Year 1969. The Committee fully appreciates the need to hold such expenditures to a minimum to combat inflation. However, extensive testimony received by the Committee makes it clearly evident that some adjustment in the estimate is essential to avoid costly delays in construction.

FUNDING FOR CORPS OF ENGINEERS PROGRAMS

Brig. Gen. Richard H. Groves, deputy director for civil works of the Corps of Engineers, recently advised the Mo-Ark Basins Flood Control and Conservation Association in Kansas City, that water resource proponents must remain alert or they may lose funds that they have at this time. He also indicated that a quick end to the war would not necessarily lead to a major increase in the level of Federal funding for water resource development. This is because new demands for Federal funds are competing for the priorities ranking with older programs.

WATER AND LAND RESOURCES STUDY COMMITTEE

A legislation study committee on water and land resources has been formed. The committee includes Senators: Burbach, (Chairman), Kremer, Kokes, Johnson, Syas, Kennedy, Wiltse, and Nore.

MATCHING GRANT PROGRAM FOR F.Y. 1971

A total of eight new matching grant proposals are currently being prepared for submission to the Office of Water Resources Research. An announcement on the nature of those will be included in the next issue of the newsletter.

1970 SUMMER INSTITUTE ON WATER RESOURCES

The N.W.R.R.I. is planning to sponsor a two week summer institute (July 26 - Aug. 7, 1970) on "Applied Mathematical Programming Techniques in Water Resources." The program should be complete by Jan. 1, 1970 and will be published in the newsletter. For advance information, call ext. 3307.

RESEARCH REVIEW

Project Title: "Eutrophication of Small Reservoirs in the Great Plains
Principal Investigators: Dr. Mark J. Hammer
Dr. Gary L. Hergenrader
Dates: June 1969 to June 1972

Very little is known about eutrophication in small reservoirs and virtually nothing is known about eutrophication of Nebraska's waters. Several reservoirs constructed in the vicinity of Lincoln, Nebraska are already showing symptoms of advanced eutrophication and their recreational benefits are already reduced. Although these reservoirs were constructed primarily for flood control, others are being funded by the United States Congress with monetary benefits being attributed to water-based recreation. More information is needed on eutrophication in small reservoirs to use as a basis for judgement in evaluating the potential uses of these waters.

Specifically, the objectives of the proposed research are as follows:

1. To determine the present trophic condition in selected reservoirs in the Salt Valley Watershed by monitoring several biological and physio-chemical parameters; to determine the rate of eutrophication in these reservoirs by observing changes in the above parameters over a three year period; and to evaluate the future usefulness of these reservoirs for recreation.

2. To identify sources of nutrient input into these reservoirs, both agricultural and domestic.

3. Based on the data collected from these studies, to evaluate preventive and remedial measures to improve water quality and retard the rate of eutrophication.

Efforts during the remainder of calendar year 1969 will be centered on monitoring the variables of interest at the Salt Valley reservoirs and preliminary data analyses.

NEW PUBLICATIONS RECEIVED BY THE INSTITUTE

(A list of all water resources publications held by the Institute is available upon request. Any publication may be borrowed for a two week period upon request.)

- 1) "The Identification and Critical Analysis of Selected Literature Dealing with the Recreational Aspects of Water Resources Use, Planning, and Development," by R.B. Ditton, University of Illinois, June 1969.
- 2) "A Plan for a Comprehensive Water Resources Research Information Exchange System," by H.O. Banks and C.G. Wolfe, San Francisco, California, August 1969, (also condensed version).
- 3) "Second Report of the Texas Water Development Board, Covering the Biennium Sept. 1, 1966 through Aug. 31, 1968," by M. Cox, Chrm, Texas Water Development Board.
- 4) "Technical Publications, Source Control of Water Treatment Waste Solids," by D.D. Adrian and J.H. Nebiker, University of Massachusetts, Research Report No. 3 for the Federal Water Pollution Control Administration, March 1969.
- 5) "Source Control of Water Treatment Waste Solids," by D.D. Adrian and J.H. Nebiker, University of Massachusetts, Progress Report for Federal Water Pollution Control Administration, March 1969.
- 6) "Pollution Charges, Waste Assimilative Capacity Investment, and Water Quality: The Public Costs of a Public Good," by J.H. Boyd, Ohio State University, January 1969.
- 7) "Complete Catalog of Current Publications in Anthropology, Biology, Chemistry, Engineering, Mathematics, Physics," Allyn and Bacon, Inc., Boston, 1969.
- 8) "Water Use in Tennessee," Part B, Industrial Water Use, by J.M. Wilson, H.B. Nichols, and A.M.F. Johnson, Nashville, Tennessee, 1969.
- 9) "Residual Nitrate Nitrogen in Fertilized Deep Loess-Derived Soils," (reprint) by G.M. Herron, G.L. Termann, A.F. Dreier, and R.A. Olson.
- 10) "Controlling Losses of Fertilizer Nitrogen From Soils," (reprint) by R.A. Olson, K.D. Frank, and A.F. Dreier, Vol. IV.
- 11) "Impedance to Infiltration by Pressure Build-Up Ahead of the Wetting Front," (a reprint from JGR) by D.D. Adrian and J.B. Franzini, Vol. 71, No. 24, December 15, 1966.
- 12) "Economic Effects of the Platte River Project," Special Summary Report for Omaha and Lincoln, Nebraska Chambers of Commerce, April 30, 1969.
- 13) "Seminar - Modifying the Soil and Water Environment for Approaching the Agricultural Potential of the Great Plains," Kansas State University, Vol. 1, March 17-19, 1969.

- 14) "Texas Water Development Board Publications Catalog," Austin, Texas, August 1969.
- 15) "Stochastic Models for Biochemical Oxygen Demand and Dissolved Oxygen in Estuaries," by S.W. Custer and R.G. Krutchkoff, Virginia, February 1969.
- 16) "Eutrophication Program - Abstracts," University of Wisconsin, September 1969.
- 17) "Selected Water Resources Abstracts," Vol. 2, No. 19, October 1969.
- 18) "Workshop on Water Resource Problems and Research Needs Related to Agriculture in the Coastal Plains of North Carolina," Kinston, North Carolina, March 14, 1969.
- 19) "Reservoir Temperature Stratification," The Hydrologic Engineering Center, Corps of Engineers, September 1969.

NEWSLETTER ITEMS

Newsletter items and inquiries should be sent to:
Dr. Warren Viessman, Jr., Director, N.W.R.R.I., 212 Agricultural Engineering Building, East Campus, Lincoln, Nebraska.