

Water and Range Resources and Economic Development of the West

Report No. 9

Economic Analysis of Multiple Use The Arizona Watershed Program —A Case Study of Multiple Use

Conference Proceedings

**Committee on the Economics of Water Resources Development
and**

**Committee on the Economics of Range Use and Development
of the**

Western Agricultural Economics Research Council

Tucson, Arizona

January 23 and 24, 1961

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Each of the departments of agricultural economics represented on the Committee on the Economics of Water Resources Development and the Committee on the Economics of Range Use and Development, has a limited supply of additional copies. This report may be obtained by writing to one of the western agricultural economics departments, or to John O. Gerald, Secretary of Western Agricultural Economics Research Council, 211 Post Office Building, Berkeley 1, California

FOREWORD

Over the past 10 years the Committee on the Economics of Water Resources Development and the Committee on the Economics of Range Use and Development, of the Western Agricultural Economics Research Council, has devoted a series of meetings to the discussion of the policies and problems associated with economic development of water and range resources. This report is a joint report of the Water and Range committees, and is listed as No. 9 in the series of proceedings publications of the Water Resources Committee. Other reports of the Water Committee are as follows:

- Report No. 0 Direct and Indirect Benefits, December 1951
- Report No. 1 Research Needs and Problems, March 1953
- Report No. 2 Institutions and Policies, June 1954
- Report No. 3 Benefits -- Cost Analysis, December 1954
- Report No. 4 Impact and Measurement; Organizational Integration; Small Watershed Development; and Desert Land Development, June 1955
- Report No. 5 Ground Water Economics and the Law, December 1956
- Report No. 6 Small Watershed Development -- Rehabilitation and Reorganization of Irrigation Projects, November 1957
- Report No. 7 Rehabilitation and Reorganization of Irrigation Projects: Evaluation Methodology of the Upper Colorado River Development; Alternative Water Uses, November 1958
- Report No. 8 Political and Economic Problems in Budget Allocation; Development Planning; Impact of Resources Development

Reports released by the Range Resources Committee are as follows:

- Report No. 1 A Methodological Anthology, 1957
- Report No. 2 Economics of Range and Multiple Land Use, 1959

The major functions of the two committees are: (1) to review the economic problems connected with water and range resources development, the research being done and further research needed, (2) to isolate problem areas and develop proposals for regional research projects as needed, and encourage the implementation of cooperative research by appropriate means other than by regional research funds, (3) to improve the quality of regional research through promotion of workshops and seminars on research methods and techniques, and (4) report annually to the Western Agricultural Economics Research Council on research problems, going research, and needed research.

In 1960 the Council's two committees decided that problems should be investigated in the economic analysis of multiple use of water and range resources. The members of the Committee recognized that multiple use concepts were common to both water and range development. The committees felt that a joint meeting of the two committees would be the most promising and efficient way of attacking these problems.

A joint Program Committee was appointed to arrange the program, consisting of:

Glen Fulcher, Chairman, Range and Water Committees; Douglas Caton and James Gray, Range Committee; Helmer Holje and Stephen Smith, Water Committee.

In January, 1961, the committees met at Tucson, Arizona. This Report contains the major papers and discussions of papers which were presented at the Tucson meeting. Payment of travel expenses for the Committee members, guest speakers and consultants was made possible by a generous grant given to the Council and Committee by the Farm Foundation. Reproduction costs associated with this report were paid by funds contributed by the Agricultural Experiment Stations of the eleven western states and various subsections of the U. S. D. A. Special credit goes to the members of the Program Committee for their efforts in the development of the program and for making arrangements for the meeting.

Glen Fulcher, Chairman
Committee on the Economics of
Range Use and Development

Owen L. Brough, Jr., Chairman
Committee on the Economics of
Water Resources Development

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