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SMALL WATERSHEDS

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PREFACE

This bibliography was compiled and annotated by Nellie G. Larson, Division of Bibliography, Library. The list was begun by Don E. Burris, Farm Economics Research Division, Agricultural Research Service; and his contribution is gratefully acknowledged.

The bibliography is, in general, limited to the administrative, legal, and economic aspects of watershed development with particular emphasis on the Watershed Protection and Flood Prevention Act, Public Law 566, as amended. Its purpose is to furnish a guide to pertinent literature for personnel of local, State, and Federal agencies and others working in the educational, action, and research phases of small watershed programs.

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SOURCES CONSULTED

Indexes and Abstracting Journals

Agricultural Index, Sept. 1951-1956
Bibliography of Agriculture, 1950-1956
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Journal of Soil and Water Conservation,
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Bibliographies

U. S. Agricultural Research Serv., Farm
Economics Research Div. Selected refer-
ences on watershed development: State-local
organization and finance, Preliminary list.
1956. 4 p.

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SMALL WATERSHEDS
A Selected List of References

Compiled by Nellie G. Larson

WATERSHED DEVELOPMENT,
GENERAL

- ALLEN, C. S. A water facilities program for the 31 Eastern States. Washington, U. S. Farmers Home Administration, 1955. 10 p. A282.9 A15
Talk before the Southeast Section of the American Society of Agricultural Engineers, Louisville, Ky., Feb. 7, 1955.
On the loan program of the Farmers Home Administration as related to water facilities.
- AMERICAN SOCIETY OF PLANNING OFFICIALS. Planning problems of small watersheds. Amer. Soc. Planning Off. Conf. Proc. 1948: 84-100. 98.59 C76
Contents: Small stream planning and development through cooperative action - Federal, State, local, by J. A. Short, p. 84-85; Problems involved in comprehensive programs of small stream planning and development, by J. H. Jones, p. 85-86; Small stream improvement programs under the compact method, by E. R. Cotton, p. 87-89; Economics of small watershed development, by P. E. Middleton, p. 89-91; Plans and problems of organizing and financing a valley planning association or commission by R. A. Harrier, p. 91-95; Summary of what is now being done in the United States by interested agencies and organizations, by G. H. Gibson, p. 95-97; The need for small streams institute - independent or affiliated, by C. M. Hoff, p. 97-99; Reporter's summary, by G. H. Gibson, p. 99-100.
- BENNETT, H. [H.] The complete watershed program in flood control. Soil Conserv. 17: 75-82. Nov. 1951. 1.6 So3S
Address at Newspaper Editors' Flood Control Meeting, Lincoln, Nebr. Aug. 11, 1951.
Joint efforts of the Army Engineers with the Soil Conservation Service in 11 watersheds illustrate cooperation in land treatment, upstream engineering, and downstream engineering. The Salt-Wahoo Watershed Association is an illustration of cooperation of local groups with Federal agencies.
- BENNETT, H. H. Soil conservation and floods. Amer. Acad. Polit. and Social Sci. Ann. 281: 181-188. May 1952. 280.9 Am34
Points to cooperative efforts and results in flood control on the Salt-Wahoo, the little Sioux, and the Washita watershed.
- BERRY, H. D. Watershed development helps curb floods. Milestones Conn. Agr. and Home Econ. 2(4): 5-6. Mar. 1956. 100 C76M
The Connecticut Legislature appropriated half a million dollars in 1955 for small watershed development work.
- BROWN, C. B. Conservation begins on the watersheds. U. S. D. A. Ybk. Agr. 1955: 161-165. 1 Ag84Y
History of watershed conservation legislation in the United States. Provisions of 1954 laws for small watersheds are summarized.
- BROWN, C. B. [S]peeches and statements on the flood prevention and watershed programs of the U. S. Department of Agriculture, delivered before various organizations⁷ Washington, U. S. Soil Conservation Service, 1952-1957. v. p. 1.96 Ad6Br
Presented on: Nov. 12, 1951; May 28-29, Sept. 29-30, Oct. 12-14, Dec. 15-17, 1952; Feb. 24, Nov. 17, 1954; Sept. 12, Dec. 14, 1955; Jan. 20, Jan. 25, Mar. 16, Nov. 13-14, Nov. 29-30, 1956; Jan. 14-15, Jan. 17-18, 1957.
On opportunities under Public Law 566, history of watershed legislation, the pilot watershed program, flood prevention, and community watershed planning.
- BROWNING, B. Saving a billion dollars by planning for the wise use of our resources. Land & Water 11(4): 10-12. Winter 1956. 279.8 L222
The 1956 Hugh H. Bennett Award Lecture.
States that solution of Ohio water problems must be on a watershed basis, that erosion, flood, and pollution control as well as recreational development must be part of the plan, that water problem must be solved jointly by Federal, State and local agencies, and that immediate plans must be made for maximum utilization of rainfall (including small dams).
- CARYL, N. R. The small watershed approach to our flood problem. N. Y. State Ranger Sch. Alumni News 1954: 20-24. 99.9 N487
Includes discussion of Public Law 566.
- FORD, E. C. The development of Agriculture's program of water conservation (little dams). Washington, U. S. Soil Conservation Service, 1955. 6 p. A292.9 F75
Paper presented at 85th annual meeting of American Fishery Society, Augusta, Ga., Sept. 15, 1955.
Discussion of the pilot projects and the Watershed Protection and Flood Prevention Act.
- FORMAN, J., and FINK, O. E., comps. and eds. Water and man; a study in ecology. Columbus, Ohio, Friends of the Land, 1950. 407 p., illus. 292 F76
Presented at 8th annual Conference on Conservation, Nutrition and Health by Friends of the Land.
"How Green is our Valley", the work of the Brandywine Valley Association, by R. G. Struble, p. 187-194; The Story of Friends of the Land is closely linked to the Muskingum Conservancy, p. 197-211; The Muskingum Watershed Conservancy District, by B. C. Browning, p. 213-221; What industry is doing about land and water, by W. C. Gumbel, p. 243-250.
- FRANCIS, C. J. Progress in watershed operations. Assoc. West. State Engin. Proc. 28: 1-9. 1956. 290.9 As76
Presented at 28th annual convention, Denver, Sept. 26, 1955. Summary of work.

- under the pilot program and under Public Law 566; largely technical.
- Also issued by U. S. Soil Conservation Service, 1955. 16 p. A56.9 F84
- FROST, S. L. Ohio's water crusaders. *Amer. Forests* 62(6): 10-16. June 1956. 99.8 F762
- Statewide interest in watershed planning, sponsored by the Ohio Forestry Association resulted in organization of Muskingum and Miami Conservancy Districts.
- GAYLE, H. K. The watershed protection and flood prevention program of the U. S. Dept. of Agriculture. (Abs.) *Assoc. South. Agr. Workers. Proc.* 52: 192-193. 1955. 4 C82
- Includes Public Law 566.
- GHORMLEY, C. E. Watershed protection. *Ohio Water Clinic*, 3d, *Proc.* 1954. *Ohio State Engin. Expt. Sta. Spec. Rpt.*, Aug. 1954, p. 97-102. 292.9 Oh35
- Stresses the need for local action and initiative.
- GRAY, A. J. Planning for local flood damage prevention. *Amer. Inst. Planners, J.* 22(1): 11-16. Winter 1956. Princeton U. Libr.
- Based on experience in the Tennessee Valley. Flood plains along the main streams of rivers and even the smallest tributaries, are needed by the rivers in flood. Use of such areas for other purposes requires standards of occupancy related to hazards inherent in such locations. There has been growing acceptance of the "flood-way" concept in land-use plans and in zoning proposals. For every community in which protective schemes are economically feasible, 20 others exist in which protective works are not presently justified.
- GUMBEL, W. C. Industry's stake in conservation. *J. Soil & Water Conserv.* 9: 230-235. Sept. 1954. 56.8 J822
- Industry can support the conservation movement, including watershed development, by: 1, Advertising and publicity; 2, Conservation contests; 3, General conservation education; 4, Field days and tours; 5, Promotional activities; 6, Treatment of company-owned land.
- HANNAH, H. W. Federal aid in the establishment of soil conservation measures and facilities for farm water storage and utilization. *Ill. Farm Econ.* 222: 1568-1571. Apr. 1955. 275.28 II5
- Explains the 1954 amendments to a 1937 Federal law providing loans.
- HOPE, C. R. Expanded opportunities for watershed development. *J. Soil & Water Conserv.* 11(6): 271-277. Nov. 1956. 56.8 J822
- Address at annual meeting of Soil Conservation Society of America, Tulsa, Okla., Oct. 16, 1956.
- Discusses need for a watershed and conservation program, legislation since 1936 to support it, and some opposition the program faces.
- HOPE, C. R. Hold that water! *Tex. Game & Fish* 13(5): 12-13, 26-28. May 1955. 410 T312
- Delivered at Friends of the Land Watershed Conference, Topeka, Kans., Mar. 24, 1954.
- Includes discussion of the pilot projects.
- HOPE, C. R. The progress of the small watershed program. *Land & Water* 11(4): 15-16. Winter 1956. 279.8 L222
- Reviews legislation from 1936 through 1956.
- HOPE, C. R. We are making progress in soil and water conservation. *Land & Water* 1(1): 30-33. Spring 1955.
- The Hugh H. Bennett 1954 Lecture delivered at Camp Muskingum, at the annual meeting of Friends of the Land.
- Includes provisions of the Watershed Protection and Flood Control Act.
- HOYT, W. G., and LANGBEIN, W. B. Flood management through zoning, insurance, and forecasting. In *U. S. Commission on Organization of the Executive Branch of the Government. Task force report on water resources and power*, v. 3, p. 1249-1273. Washington, 1955. 173 Or3Ta
- The hazards of flood-plain occupancy should be recognized, actions necessary to lessen the hazard are discussed.
- Based largely on the chapter Man's Adaptation to Floods, in their book, *Floods*, p. 91-137, Princeton U. Press, 1955. 290 H85
- LEOPOLD, L. B., and MADDOCK, T. The flood control controversy: big dams, little dams, and land management. New York, Ronald Press, 1954. 278 p. 290 L55
- Proposals for upstream work, p. 184-214, deals with costs and benefits. The Nepper watershed, a tributary of the Little Sioux basin, Iowa, is used as an illustration.
- Problems connected with upstream programs, p. 215-226, attempts to summarize the upstream program - its basic purposes, general methodology, and over-all results.
- A comparison of the program of downstream flood control by the Corps of Engineers with the upstream flood control projects of the Department of Agriculture.
- MCCONNELL, R. A. Let's have flood control and conservation.
- Capper's Farmer* 64(7): 24-25, 59-61. July 1953. 6 M693
- Stresses need for a comprehensive national program with legislation to enable formation of interstate agencies to plan and coordinate State and local projects. Experience in Kansas and Nebraska is cited.
- MEADE, M. The Missouri River Basin proposals for development. *Kans. U. Bur. Govt. Res. Citizen's Pam. Ser.* 11, 69 p. 1952. 290 M462M
- The Watershed management plan, p. 43-63, explains the Department of Agriculture's Young Plan for flood control and soil and water conservation in the entire Missouri Basin. Discusses the Miami Conservancy District as a pattern for local action, and the Muskingum Conservancy District as a pattern for local-State-Federal action.
- MORGAN, R. J. Pressure politics and resources administration. *J. Polit.* 18: 59-60. Feb. 1956. 280.8 J827
- The story of the Salt-Wahoo flood control project and its relation to the Watershed Protection and Flood Prevention Act of 1954 is used to illustrate obstacles to overcome in making legislative and administrative decisions. The writer states

that Public Law 566 is another demonstration of apparent incapacity of both Congress and the Executive Branch to deal with the problem of fashioning a comprehensive program of water resources conservation and development.

MUEHLBEIER, J. How do watersheds actually work? *Land Impr.* 2(1): 16-17, 20-21. Jan. 1955. 282. 8 L224

Operation of the soil conservation districts, pilot watershed projects, and provisions of the Hope-Aiken Act. Discusses need for funds, power to tax, and need for review by States.

NATIONAL WATERSHED CONGRESS, 1st, 1954. /Proceedings/ Washington, 1954. 175 p. 292.9 N212

The following Committee reports and ensuing discussions are of interest: I. Elements of a sound national land and water policy (E. H. Taylor, Chairman) p. 3-15; II. Review of existing and needed Federal legislation (C. Guess, Chairman) p. 16-26; III. Basic approach to State legislation for watershed development (O. Liebers, Chairman) p. 28-44; IV. Development of adequate State agencies (O. W. Chinn, Chairman) p. 44-56; V. Federal appropriations (Mrs. W. K. Jackson, Chairman) p. 57-73; VI. Federal, State and local cost-sharing in watershed development and protection (R. W. Smith, Chairman) p. 88-105; VII. Principles of Federal inter-agency coordination (G. Eason, Chairman) p. 105-119; VIII. Local administrative techniques (W. Gumbel, Chairman) p. 120-134; IX. Promoting public understanding (D. Payton, Chairman) p. 136-149; X. Organization of watershed associations (C. Hoff, Chairman) p. 149-163.

Includes Remarks by E. T. Benson, p. 74-80; Remarks by D. McKay, p. 80-83; Remarks by R. T. Stevens, p. 83-86.

NATIONAL WATERSHED CONGRESS, 2d, 1955. Proceedings. Washington, 1955. 189 p. 292.9 N212

Contents: Getting the most out of a watershed program, by F. C. Lindsay, p. 5-10; Getting the maximum soil and water conservation under watershed protection programs, by A. D. Holmes, p. 10-11; Providing for the maximum forest and range protection and management in a watershed program, by H. G. Wilm, p. 12-15; Providing for the maximum agricultural water supply in the West, by W. E. Silverwood, p. 23-26; Providing for the maximum agricultural water supply in the East, by H. N. Young, p. 27-29; Getting the most out of a watershed program for flood protection, by N. H. Fuqua, p. 37-39.

The following Committee reports, and ensuing discussion, are of interest: II. Federal watershed action - present position and future needs (G. Zimmerman, Chairman) p. 40-88; III. State responsibilities now and tomorrow concerning activities under the Watershed Protection and Flood Prevention Act (R. Crosby, Chairman) p. 95-143; IV. The watershed movement; present position and future needs - local (W. T. Wallis, Vice-Chairman) p. 144-186.

These reports and discussions contain many statements and opinions relating to operations under Public Law 566, including cost-sharing,

State legislation, State-local-Federal cooperation, lack of basic data, information and education needs, and district organization.

NATIONAL WATERSHED CONGRESS, 3d, 1956. Proceedings. Lincoln, Nebr., 1956. 158 p. 292.9 N212

Partial contents: The Salt-Wahoo watershed - its problems and how they are being solved, p. 84-111, a panel discussion by R. B. Crosby, Chairman, H. G. Bobst, G. E. Galloway, H. L. Rood, R. J. Morgan, M. O. Steen, R. Harlan, and P. Hurley.

Summaries Committee proposals for sponsoring organizations, p. 138-146, includes statements and questions relating to sizes of total program, technical questions, and responsibilities that are State, local, Federal, private, or inter-governmental.

OGROSKY, H. O. Water management in agricultural watersheds. *Ohio Water Clinic*, 2nd, Proc. 1953. *Ohio, State U. Engin. Expt. Sta. Spec. Rpt.* Nov. 1953, p. 94-99. 292.9 Oh35

Washita River watershed program is included.

OHIO FORESTRY ASSOCIATION. How to develop watersheds. Columbus, Ohio, 1955. 35 p., illus. 292 Oh342

A handbook to help in diagnosing watershed problems, and in organizing, financing, surveying, and planning watershed programs.

OHIO FORESTRY ASSOCIATION. OHIO CONSERVATION PLAN COMMITTEE. Valleys of opportunity; the watershed conservation plan for Ohio. Columbus, Ohio, 1955. 64 p. maps, illus. 292 Oh34V

Overall, basic information, pictorially and statistically presented, on all the watersheds of Ohio. Five broad recommendations for teamwork directed toward complete watershed programs are given, as well as 20 other detailed recommendations. This book is condensed from the 204 pages found in the complete report of the Committee and its Task Forces.

OHIO FORESTRY ASSOCIATION. OHIO CONSERVATION PLAN COMMITTEE. A watershed conservation plan for Ohio. Columbus, Ohio, 1955. 24 p. 292 Oh34C

Appendix contains Summaries of Task Force Recommendations, one of which is the Farm Water Task Force.

ORGANIZING a watershed management program. *Land & Water* 1(1): 22-29. Spring 1955. 279.8 L222

The section on education and salesmanship has followed closely the paper read at the National Watershed Conference in Dec. 1954, by Dwight Payton.

Stresses the educational program through mediums of publicity and speakers from many groups and organizations. Includes water rights, bylaws, and action programs. Details relating to specific procedures, media, and methods are given.

PARKS, W. R. Soil conservation districts in action. Ames, Iowa State College Press, 1952. 242 p. illus. 56.7 P23

The first 15 years of experience in the operation of soil conservation districts are presented

- as a case study in inter-governmental relations and of the problems and potentialities of lay farmer participation in agricultural administration.
- PERSON, H. T. Small watershed development. *Gt. Plains Agr. Council Proc.* 1954: 96-100, 282.9 G7992
Presented Aug. 4, 1953, at Fort Collins, Colo.
General discussion stating what small watershed development can and cannot do. Examples are given of accomplishment through local action, as in the Miami Conservancy District, through joint local, State, and Federal action, as in the Muskingum Conservancy District, and through local interest development, as in the Salt-Wahoo Association.
- PETERSON, E. T. Big dam foolishness; the problem of modern flood control and water storage. *New York, Devin-Adair*, 1954, 224 p. 290 P44
Introduction by P. B. Sears.
"This book, frankly, is controversial and somewhat iconoclastic." - Foreword.
Advocates upstream flood control as opposed to big dams. Ch. 13, The Washita program; agricultural flood control in action, deals with a project in which many local groups participated.
- RESOURCES FOR THE FUTURE, INC. The nation looks at its resources; report of the Mid-Century Conference on Resources for the Future, Washington, D. C., Dec. 2, 3, 4, 1953. Washington, 1954, 418 p. 279.9 M 584N
Small watershed programs, p. 117-123.
- SILER, R. W., JR. Flood problems and their solution through urban planning programs. *Tenn. State Planning Comm. P. 262*, 48 p. Nashville, 1955.
Local planning programs are studied as a means of meeting the problems of local floods by alternative methods, i. e. other than construction of dikes and protective works. Considers zoning and subdivision regulation as proper exercises of police power in controlling the use of land in flood plains.
Includes a comprehensive flood-damage-prevention program for urban areas.
- STEELE, H. A. Recent activities in water resource development in the United States. Washington, U. S. Agricultural Research Service, Production Economics Research Branch, 1956. 15 p. A281.9 St3
Address before the Subcommittee on Land and Water Use of the European Committee on Agriculture, Food and Agriculture Organization of the United Nations, Lisbon, Portugal, Feb. 21, 1956.
Overall survey including State and local organizations to cooperate under Public Law 566.
- STRUBLE, R. G., and CROFT, A. R. Watershed resource management. *J. Soil & Water Conserv.* 11: 121-124, May 1956. 56.8 J822
Several typical watershed programs, from the very small to the very large are described to suggest guiding principles in management.
Reprinted in: Soil Conservation Society of America, "Our Watershed Resources". 1956. 28 p. 292 So32
- THREINEN, C. W. Watershed responsibility. *Wis. Conserv. B.* 16(12): 16-18, Dec. 1951. 279.8 W752
Landowners can make or break conservation.
- U. S. COMMISSION ON ORGANIZATION OF THE EXECUTIVE BRANCH OF THE GOVERNMENT. Task force report on water resources and power. Washington, 1955. 3 v. 173 Or3Ta
Partial contents (Vol. 2): Report of Task group on flood control, W. W. Horner, Chairman, p. 719-842; Background of present Federal policy and program, p. 731-741 [contains a history of legislation pertaining to flood control]; Present Federal flood control program, p. 769-788 [reviews flood control work of U. S. Department of Agriculture, lists the 11 projects authorized by the Flood Control Act of 1944, and discusses the demonstration program in watershed protection]; Appraisal of the program of the Department of Agriculture, p. 821-828.
Partial contents (Vol. 3): Flood management through zoning, insurance, and forecasting, by W. G. Hoyt and W. B. Langbein, p. 1249-1273; Reliability of estimates of agricultural damages from floods, by F. A. Clarenbach, p. 1275-1298; Patterns of Federal-non-Federal partnership in water resource development, by N. W. Page, p. 1581-1682; Chronological resume of legislation Jan. 1, 1950 to Aug. 20, 1954, by J. B. O'Brien, Jr., p. 1729-1772.
- U. S. DEPT. OF AGRICULTURE. OFFICE OF THE SECRETARY. Background information regarding watershed programs of the USDA. Washington, June 1952. 6 p. 1.91 A2B12 1952a
Surveys, land treatment, watercourse structures.
- U. S. MISSOURI BASIN SURVEY COMMISSION. Missouri: land and water. Report. Washington, 1953. 295 p. 173 M694M
Partial contents: Costs and benefits from improvements on 12 minor watersheds of the Little Sioux River in Iowa, p. 95; Plans for the Salt-Wahoo Basin, p. 132-136; Watershed management and land conservation, p. 169-171; Difficulty in developing small projects, p. 186-189; Financial responsibility, p. 234-236; Federal organization for resources development, p. 239-246; State and local governments in resource development, p. 247-263.
- U. S. NATIONAL RESOURCES PLANNING BOARD. Manual on the planning of small water projects. 82d Cong., 2d sess., H. Doc. 408, 191 p. 1952. 148 11614
Legal, economic and financial considerations, p. 15-44; Flood protection, p. 91-100; Soil conservation and water flow retardation, p. 162-169.
- VOELKER, S. W., and MUEHLBEIR, J. Institutional arrangements for watershed programs. *J. Farm Econ.* 36: 1184-1196. Dec. 1954. 280.8 J822
Discussion, by G. E. Young, p. 1197-1199.
Delivered at annual meeting of American Farm Economics Association, Pennsylvania State University, Aug. 24, 1954.
Deals with background of watershed programs, including summary of provisions of Public Law 566, 83d Congress, organizational aspects, such

- as information and education, planning and surveys, construction and installation of structures, operation and maintenance of structures, financing, regulatory functions and coordination of effort, types of local organizations on existing watershed projects, need for additional enabling legislation, enabling legislation for watershed districts, and State-district relations in watershed programs.
- WARD, H. Soil conservation and small watersheds. (Abs.) Assoc. South. Agr. Workers. Proc. 52: 193. 1955. 4 C82
 Speaker feels that costs of the Small Watershed program should be borne by the Federal Government, as floods are a Federal problem.
- WILLIAMS, D. A. Small watershed protection and land use. Amer. Forests 61: 36-39, 42-44, 46. Nov. 1955. 99.8 F762
 Traces progress in small-watershed control since 1935, including the pilot watershed projects, and the Watershed Protection and Flood Prevention Act of 1954. Reviews provisions of this law and progress made since its passage.
- WILM, H. G. Foresters in the watershed movement. Amer. Forests 61: 28-20, 47, 50. Feb. 1955. 99.8 F762
 Critical of foresters lack of participation in the National Watershed Congress in Dec. 1954. Includes quotations from Public Law 566 with comments that most of the small watersheds selected demonstrate agricultural rather than forest problems.
- #### PILOT WATERSHED PROGRAM
- BIRD, J. They tamed their floods; six years ago, Nebraska's Upper Salt Creek went on a rampage that cost \$12,000,000: here's how the residents of the area have made sure it won't happen again. Sat. Eve. Post 228(48): 36, 143-144, 146. May 26, 1956. 110 Sa8
 How the Salt-Wahoo watershed was organized and the pilot watersheds project was begun.
- CULPEPPER, W. S., and IRWIN, K.
 The watershed protection program for the East Branch of the South Fork of Blackwater River in Missouri. Mo. Basin Inter-Agency Comt. Minutes Mtg. 71(App. H), 7 p. Jan. 27, 1954. 173 M69
 Talk at Jefferson City, Mo.
- ENGSTROM, H. E. The watershed protection program of U. S. D. A. Mo. Basin Inter-Agency Comt. Minutes Mtg. 70(App. E), 5 p. Dec. 3, 1953. 173 M69
 Talk at Topeka, Kans. Topics discussed are: History of the program, the pilot projects, local responsibility and participation, and what Soil Conservation Service will do to assist local agencies.
- FORD, E. C. The small watershed gets attention. Soil Conserv. 18: 106-114, map, illus. Dec. 1953. 1.6 So3S
 "Watershed Protection" included in the Department of Agriculture appropriation for fiscal year ending June 30, 1954 is the basis for the 65 demonstration or pilot projects for watershed protection to be set up in cooperation with local organizations.
- GRANT, J. Salem pilot watershed. Soil Conserv. 21: 131, 138-140. Jan. 1956. 1.6 So3S
 Accomplishments in this West Virginia watershed through a partnership between local, State, and Federal agencies.
- HOW THEY ORGANIZED a watershed demonstration [in Kansas]; Land Impr. Oct. 1954: 22-23, 282. 8 L224
 The Little Delaware-Mission Creek watershed demonstration is believed to be the first organized in one of the 62 pilot watersheds. It got a lot of publicity and several thousand people attended.
- LOYD, G. F. Watershed protection projects. Better Farming for Better Living, Spring 1955: 12. 6 B464
 Brief information on two small pilot watersheds, the Upper Hocking in Ohio and the Indian Creek in Nebraska.
- MCKEEVER, I. The road to conservation; the Corey Creek watershed. Pa. Game News 26(1): 17-22, illus. Jan. 1955. 412.9 P38Pe
 The Corey Creek watershed in Tioga County, Pa., was one of the pilot projects. Tells of cooperation by many local agencies.
- SAUER, E. L., and HENNEBERRY, W. H. Current watershed programs in Illinois. Ill. Farm Econ. 222: 1563-1567. Apr. 1955. 275.28 IL5
 Evaluation and progress on 3 pilot watershed projects in Illinois, Hadley Creek, Money Creek, and Old Tom Creek.
- SMALL-WATERSHED PROTECTION: Pilot western projects show how new program works. Farm Mngt. 4(4): 14-16, 18. Apr. 1955. 281.8 F2225
 Provisions of Public Law 566 are summarized, and two pilot watershed projects in California - Calleguas Creek and Walnut Creek - are briefly described.
- SMITH, G. R. The watershed protection program in Kansas. Mo. Basin Inter-Agency Comt. Minutes Mtg. 70(App. F), 6 p. Dec. 3, 1953. 173 M69
 Talk at Topeka, Kans. The Snipe Creek watershed is described as being representative of the six pilot projects in Kansas. Appendix G contains a talk by P. A. Prell, "The Snipe Creek Watershed," 5 p.
- THORNTON, D. The pilot watershed project at field level. (Abs.) Assoc. South. Agr. Workers. Proc. 52: 196-197. 1955. 4 C82
 The North Fork Broad River watershed in Georgia, comprising 40,000 acres, is about one-half in forest land.
- #### PUBLIC LAW 566, GENERAL
- BENSON, E. T. An effective watershed program. Soil Conserv. 20: 158-162. Feb. 1955. 1.6 So3S
 Address before the National Watershed Congress, Washington, D. C., Dec. 6, 1954.
 Objectives and work of the U. S. Department of Agriculture under Public Law 566 and the Water Facilities Act.
 Also issued by U. S. Dept. of Agriculture, 10 p. 1954. 1.91 A2B44.
- BROWN, C. B. Watershed protection and flood prevention assistance by the Department of Agriculture. Mo. Basin Inter-Agency Comt.

- Minutes Mtg. 84(App. B), 6 p. Dec. 14, 1955. 173 M69
Talk at Sioux City, Iowa. Historical, but chiefly concerned with provisions of Public Law 566.
- BROWN, C. B. Watershed work of the Department of Agriculture. Arkansas-White-Red Basins Inter-Agency Comt. Minutes Mtg. 7(App. D), 16 p. Oct. 8, 1956. 290.9 Ar42
Address at Committee Meeting, Sequoyah State Park, Okla., Sept. 12, 1956.
Extensive discussion of Public Law 566, including its amendments.
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- MORGAN, R. J. A new voice in government: The watershed district. State Govt. 26(12): 288-290, 293. Dec. 1953. 280, 8 St2
Enabling legislation for the creation of watershed districts was enacted by the Nebraska Legislature in 1953. Tells why the Act was favored, describes the characteristics of the districts and boards to be created under it, and points to some of the problems involved in their development.
- MUEHLBEIER, J. Organizing for watershed development. So. Dak. Agr. Expt. Sta. 133, 24 p. Ref. Jan. 1957. (Gt. Plains Agr. Council Pub. 17) 100 So82
Discusses functions that local sponsoring organizations may need to perform and powers they may need, development of enabling legislation for watershed districts, making and approval of plans, appraisal of benefits, and State and local participation. Includes a list of recent State enabling acts, and references on watershed development.
- OTTE, R. C. Local resource protection and development districts. Statutory functions and powers as related to the Watershed Protection and Flood Prevention Act. U. S. Agr. Res. Serv. ARS 43-48, 12 p. Apr. 1957. A281.9 R313A
A summary of 48 separate State summaries made by the Office of the General Counsel of the U. S. Department of Agriculture for the Soil Conservation Service. "Its purpose is to provide an informational overview of the types, functions, and powers of 'land and water resource' districts possible under general enabling acts of the States. The overview and analysis provide also some of the basic information necessary for evaluating the strengths and weaknesses of these districts as potential collaborators in a local-State-Federal watershed program." - p. 3
- SANDALS, K. M., and ADAMS, L. M. Progress in State legislation relating to the Watershed Protection and Flood Prevention Act, as amended.

U. S. Soil Conserv. Serv. SCS-TP 126, 8 p. map. Rev. Jan. 1957. 1.96 Ad6TP

Summaries of certain provisions of the new State laws and some of the reasons for their passage are contained in this report. Twenty-six States passed legislation during the 1955 and 1956 sessions to enable State and local agencies to cooperate with the Secretary of Agriculture under Public Laws 566 and 1018.

Summarized in "Water Laws", in Soil Conserv. 21(6): 124-125. Jan. 1956. 1.6 So3S

SMITH, R. L. Districts affecting water use and control. Iowa Law Rev. 41: 181-197. Winter 1956. Libr. Cong.

On the history and legislative basis for "Districts" and possible future trends in development under the multiple-purpose concept. Concludes that the problems of cost-allocation and cost sharing by individuals and levels of government will present the stiffest challenge for future collective action.

LOCAL-STATE-FEDERAL COOPERATION

COMMONWEALTH CLUB OF CALIFORNIA. SECTION ON WATER PROBLEMS. Water development-Federal, State, local fields? Commonwealth Club. Calif. Trans. 46: 1-24. Sept. 24, 1951. 280.9 C732

Sinclair O. Harper, Chairman.

Reports on planning, financing, construction, and management, chiefly as related to California. Recommendations favor less Federal authority.

Discussion by C. H. Lee and P. S. Taylor, p. 17-24.

DUSENBERRY, H. L. State and Federal programs which provide aid in water control and development. Mont. State Col. Ext. Serv. Folder 36, 24 p. [1955]. 275.29 M76F01

One of the 6 programs outlined is the "Watershed Protection and Flood Prevention Law 566."

FARB, P. A flood prevention plan: Federal-city-rural program makes rains behave, stops erosion, damage to communities, loss of water supply. Natl. Munic. Rev. 45(5): 214-217, 249. May 1956. 280.8 N21

Upstream flood prevention under the pilot program and Public Law 566. City-farmer associations show the way in cooperation.

Also in Read, Digest 68(410): 135-138. June 1956. 110 R22

HUDSON, H. E., and STALL, J. B. The watershed - using it as a basis for soil and water conservation; getting the facts through surveys and investigations. J. Soil & Water Conserv. 7: 11-15. Jan. 1952. 56.8 J822

Presented at 6th annual meeting of Soil Conservation Society of America, Memphis, Nov. 12-14, 1951.

Illinois' experience is cited to show that local, State, and Federal agencies can collaborate in programs of collecting data on land and water resources and human activities in a watershed.

HUFFMAN, R. E. Sharing the financial responsibility. U. S. D. A. Ybk. Agr. 1955: 677-681. 1 Ag84Y

Local, State, and Federal cost sharing problems in irrigation, drainage, flood control, and on small watersheds.

MCCONNELL, R. A. The requirements of partnership in conservation. I-II. J. Soil & Water Conserv. 9(1-2): 11-14, 77-81. Jan.-Mar. 1954. 56.8 J822

Presented at 8th annual meeting of Soil Conservation Society of America, Nov. 7, 1953.

Experience in establishing the Salt-Wahoo Watershed Association in Nebraska and in obtaining State legislation to enable the formation of watershed districts.

Pt. 2, The Federal Partner in Watershed Conservation, tells of efforts to achieve coordination among Federal agencies in conservation work, and leadership in the pilot watershed program.

MCMURRY, C. R. Local and State planning for soil conservation and watershed development. Mo. Basin Inter-Agency Comt. Minutes Mtg. 72(App. B), 6 p., Mar. 31, 1954. 173 Mo69

MORGAN, R. J. The States and watershed development. State Govt. 29: 12-16. Jan. 1956. 280.8 St2

Surveys key problems of intergovernmental relations and action in watershed programs as experienced in Nebraska.

OTTE, R. C. The small watershed program in Wisconsin. Madison, 1956. 173 p. Thesis (Ph. D.) - University of Wisconsin. Abstract in Diss. Abs. 16(11): 2045-2046. Nov. 1956. 241.8 M58

Objectives were to determine "(1) what has been done in watershed programs in Wisconsin without aid under Public Law 566; (2) what has been done in response to that Act; and (3) how these programs can be made more effective and better adapted to the needs of local groups."

PAGE, N. W. Patterns of Federal-non-Federal partnership in water resource development. In U. S. Commission on Organization of the Executive Branch of the Government. Task force report on water resources and power, v. 3, p. 1581-1682. Washington, 1955. 173 Or3Ta

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PETERS, R. W. Water management and the conservancy district. Ohio Water Clinic, 2d, Proc. 1953. Ohio, State U. Engin. Expt. Sta. Spec. Rpt. Nov. 1953, p. 1-6. 292.9 Oh35

Includes discussion of Ohio Conservancy Act, and of Federal, State and local cooperation in flood control.

STAFFORD, I. B., and HYATT, O. Program for small watersheds. I-II. N. Y. State Conserv. 8(4): 27-28; 9(1): 2-5. Feb./Mar., Aug./Sept. 1954. 279.8 N48

Pt. 1 is by I. B. Stafford, and Pt. 2, by O. Hyatt.

Four streams in New York were selected to show what intensified land treatment and modest structures can do in preventing floods and other water troubles. Pt. 2 tells how the program is carried out by State and local groups with Federal assistance.

For Pt. 3, SEE Metcalf, G. R.

STEELE, H. A., and REGAN, M. M.

Organization and administrative arrangements for an effective water policy. *J. Farm Econ.* 37: 886-896. Dec. 1955. 280.8 J822

Discussion by W. H. Pine, p. 901-903.

Integration of powers at the local, river-basin, and national levels is essential as the foundation for effective organizational arrangements.

U. S. PRESIDENT'S ADVISORY COMMITTEE ON WATER RESOURCES POLICY. Water resources policy. Report. Jan. 17, 1956. 84th Cong. 2d sess., H. Doc. 315, 35 p. 1956. 148

Signed by the Secretaries of Agriculture, Defense, and Interior.

Federal, State, and local relationships with reference to the use and control of water, p. 20-23. Participation in costs, p. 29-35.

YOUNG, G. E. Principles and procedures governing the development of watershed protection and flood prevention projects. *Mo. Basin Inter-Agency Comt. Minutes Mtg.* 88(App. D), 9 p. June 19, 1956. 173 M69

Talk at Billings, Mont.

Deals with cooperation between State, local and Federal agencies, and with benefits and costs.

LOCAL ORGANIZATION AND FINANCING

BARKLEY, J. R. Conservancy district organization and operation in the State of Colorado. *Mo. Basin Inter-Agency Comt. Minutes Mtg.* 83(App. E), 10 p. Nov. 2, 1955. 173 M69

Talk at Minot, No. Dak. Includes discussion of finance.

FROST, S. L. Ohio's conservancy districts. *Ohio Forestry Association*, Columbus, 1956. 27 p. Ref. 292 Oh3420

Under the Ohio Conservancy District Law of 1914, (amended in 1937 and 1947) 26 districts have been organized and 5 dissolved. The districts are listed and described and the writer tells of their purposes, sizes, organization, finance, legal problems, citizen education and support, and how they qualify as administering agencies under Public Law 566.

HUTCHINS, W. A., SELBY, H. E., and VOELKER, S. W. Irrigation-enterprise organizations, U.S.D.A. C. 934, 107 p. Ref. 1953. 1 AG84C

Discusses organizational procedure, powers, capital and financing, management, taxation, inclusion and exclusion of land, supervision and regulation, advantages and disadvantages of various types, adaptability, and success or failure of irrigation enterprises.

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MUEHLBEIER, J. Watershed districts for local participation in resource programs. *Mo. Basin Inter-Agency Comt. Minutes Mtg.* 62(App. H), 6 p. Jan. 28, 1953. 173 M69

Talk at Sioux City, Iowa. Discusses the purposes, creation, and powers of districts.

NIEDERFRANK, E. J., and TASCHER, W. R.

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