

WATER RESOURCE

WR 13390

SOIL CONSERVATION SERVICE.

Region Eight-Navajo District.

**Inventory of Surveys and Studies Needed by the
Office of Land use Coordinations.**

Survey of Water Resources for Agricultural Development.

General Statement.

1. General purpose of the Surveys.

These surveys are made to determine the water resources on the Navajo Reservation and adjoining territory in their relation to possible future agricultural expansion.

2. Information shown by Surveys.

As the subject indicates, these surveys show (1) the location and quantity of water available for the Navajo land (2) the location and extent of agricultural land on which this water may be used.

3. Standards Used.

These surveys and studies are rough approximations of the water resources based on information derived from previous miscellaneous surveys dating back several decades and subject to a wide variety of standards of accuracy, and on more recent reconnaissance and detailed surveys also of varying standards. Scale of detailed surveys 1" = 100' and 1" = 200'

4. Cost.

It is impossible to give an accurate unit cost of these surveys because of the varying nature of the different studies made. Some of the recent reconnaissance surveys have cost less than one dollar per square mile.

5. Cost of publishing Maps.

No maps have been published on these surveys.

6. General cooperative relations with other agencies.

There has been no direct cooperation with other agencies in these surveys. However, other agencies, the Indian in particular, have made available their surveys and investigations covering this subject.

SERIAL NUMBERS EMPLOYED IN DESCRIBING SPECIFIC AREAS

In this report serial numbers have been applied to each area surveyed. These numbers correspond to the numbers shown on the map overlays prepared to accompany the report.

The four States have been assigned a letter, thus:

Arizona.	A.
New Mexico	N.
Colorado	C.
Utah.	U.

The next letter in the serial number indicates the type of survey, as.

Preliminary	P.
Extensive	E/
Intensive.	I.

The area covered is then given a number, starting with one (1)

Example: A-E-1 is Extensive Survey in Arizona of Area No. 1, which is Navajo Reservation.

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WATER RESOURCES SURVEY

ARIZONA.

4-5-1 (EXTENSIVE SURVEY NAVAJO RESERVATION.)

- I. Compilation Scale: 1" = 1 mile.
- II. Publication Scale: Not published.
- III. Source of Base Map: Aerial photographs.
- IV. Accuracy of Base Map: Regional Office.
- V. Accuracy of location of plotted information: .1 inch for boundary lines.
- VI. The survey and study shows drainage basin divides with watershed areas, indicates water expectancy by drainage basin, and shows general location and approximate areas of agricultural land on which the water may be applied.
- VII. Date of completion: June 30, 1938
- VIII. Not known.
- IX. " "
- X. Not published.
- XI. The Indian Service is cooperating in this work by furnishing engineering assistance at different times and in making available all information on the subject on file in the Indian Service Office.

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WATER RESOURCES SURVEY

- ARIZONA -

A-1-1. (INTENSIVE SURVEYS NAVAJO RESERVATION)

- I. Compilation scale of surveys: from 1" = 1 mile, to detailed surveys of scale, 1" = 100'
- II. Published Scale: Not published.
- III. Source of Base map: Aerial mosaic 1" = 1 mile.
- IV. Accuracy of Base Map: To be supplied by Region
- V. Accuracy of location of plotted information: .1 inch
- VI. Information shown by survey: The available water supply in terms of its annual expectancy, dependability, seasonal flow, the need and possibility of storage, duty of water, extent, location and acreage of agricultural land.
- VII. Estimated Date of Completion: June 30, 1938
- VIII. Date of Publication: Not known.
- IX. Type of publication: " "
- X. Publication not available.
- XI. Agencies cooperating: The Indian Irrigation Service cooperated to the extent of 50 percent of the field work and compilation.

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WATER RESOURCES SURVEYS.

NEW MEXICO.

M-5-1 (EXTENSIVE SURVEY HAVAJO RESERVATION.)

- I. Compilation Scale: 1" = 1 mile.
- II. Publication Scale: Not published.
- III. Source of Base Map: Aerial photographs.
- IV. Accuracy of Base Map: Regional office.
- V. Accuracy of location of plotted information: 0.1 inch for boundary lines.
- VI. The survey and study shows drainage basin divides with watershed areas, indicates water expectancy by drainage basins, and shows general location and approximate areas of agricultural land on which the water may be applied.
- VII. Date of completion: June 30, 1938
- VIII. Not known.
- IX. " "
- X. Not published.
- XI. The Indian Service is cooperating in this work by furnishing engineering assistance at different times and in making available all information on the subject on file in the Indian Service Office.

WR 13395

WATER RESOURCE SURVEY
IN RELATION TO
AGRICULTURAL DEVELOPMENT
NEW MEXICO.

N-1-1 (INTENSIVE SURVEY NAVAJO RESERVATION)

- I. Compilation Scale of Surveys: 1" = 1 mile to detailed surveys of scale: 1" = 1000'
- II. Published Scale: Not published.
- III. Source of Base Map: Aerial mosaics 1" = 1 mile.
- IV. Accuracy of Base Map: Totals supplied by region
- V. Accuracy of location of plotted information: .1 inch.
- VI. Information shown by survey: The available water supply in terms of its annual expectancy, dependability, seasonal flow, the need and possibility of storage; duty of water; extent, location and acreage of agricultural land.
- VII. Estimated date of completion: June 30, 1938
- VIII. Date of publication. Not known.
- IX. Type of publication " "
- X. Publication not available.
- XI. Agencies cooperating: The Indian Irrigation Service Cooperated to the amount of 50 percent of the field work and compilation.

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WATER RESOURCES SURVEYS

UTAH.

U-5-1. (EXTENSIVE SURVEY NAVAJO RESERVATION)

- I. Compilation scale: 1" = 1 mile.
- II. Publication scale: not published.
- III. Source of Base Map; Aerial Photographs.
- IV. Accuracy of Base Map: Regional Office.
- V. Accuracy of location of plotted information: 1/8 inch for boundary lines.
- VI. The survey and study shows drainage basin divides with watershed areas, indicates water expectancy by drainage basins, and shows general location and approximate areas of agricultural land on which the water may be applied.
- VII. Date of Completion: June 30, 1953
- VIII. Not known.
- IX. " "
- X. Not published.
- XI. The Indian Service is cooperating in this work by furnishing engineering assistance at different times and in making available all information on the subject on file in the Indian Service Office.

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WATER RESOURCES SURVEY
IN RELATION TO
AGRICULTURAL DEVELOPMENT
UTAH.

U-1-1. (INTENSIVE SURVEY NAVAJO RESERVATION)

- I. Compilation Scale of Surveys: 1" = 1 mile, to detailed surveys of scale: 1" = 100'
- II. Published Scale: Not published.
- III. Source of Base Map: Aerial mosaics 1" = 1 mile.
- IV. Accuracy of Base Map: To be supplied by Region.
- V. Accuracy of location of plotted information: .1. inch.
- VI. Information shown by Survey: The available water supply in terms of its annual expectancy, dependability, seasonal flow; the need and possibility of storage, duty of water extent, location and acreage of agricultural land.
- VII. Estimated Date of Completion: June 30, 1938
- VIII. Date of publication: Not known.
- IX. Type of publication: " "
- X. Publication not available.
- XI. Agencies cooperating: The Indian Irrigation Service cooperated to the extent of 50 percent of the field work and compilation.

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