SOIL CONSERVATION SERVICE

REGION EIGHT - NAVAJO DISTRICT

Inventory of Surveys and Studies Needed by the
Office of Land Use Coordination

CONSERVATION SURVEYS

The general purpose of surveys conducted by the Division of Soils in the Navajo District is to evaluate the soils on the basis of their usefulness to the people deriving their livelihood from the products of the soil, and to formulate therefrom land use recommendations.

A. PRELIMINARY CONSERVATION SURVEYS OR SURVEYS AND STUDIES NECESSARY TO THE PREPARATION OF LAND USE PLANS:

1 and 2. These surveys have been conducted in the Ignacio Area, Colorado, and in the Navajo Indian Reservation for the purpose of obtaining very general information relative to erosion conditions, land use, topography, cultural and physio-graphic features, soils and the location and extent of actual or potential cultivated lands.

3. The information shown does not conform to the standards for conservation surveys in that soil types are not mapped. Instead, a generalized soil textural map is made to show only the texture of the top soil and the subsoil as sand, sandy loam, loam, clay loam, or clay. The surveys on areas intthe navajo Reservation (E-E-1. (14) and A-E-1 (8) further deviate from the present standards for conservation surveys in that they were surveyed in 1935 before the later standards were formulated.

4. Costs per square mile of early field work are not available, but they were higher than those of the present reconnaissance conservation survey.

5. Not applicable as no maps are published.

6. This type of survey was made in cooperation with other branches of the Soil Conservation Service, namely, Agronomy, Range, Engineering, Biology, Sociology and Forestry.

WR 13250

CV-6417-201 NN005162

The Agronomist and soils man cooperated most closely with the Engineer in locating farms and spreading areas, and making recommendations for them. Virtually no effort to evaluate the grazing land soils with respect to their capacity to produce grazing was made.

B. RECONNAISSANCE CONSERVATION SURVEYS: (Called Detailed Reconnaissance conservation surveys.

1. These surveys have been made on most of the Navajo Indian Reservation and will cover all of it by the end of the fiscal year. They are shown in blue as overlapping a preliminary study as on Land Management Unit No. 14.

They are for the purpose of furnishing all information regarding wind and water erosion, land use, slopes, soil types, and cultural and physiographic features required to make a satisfactory general land use plan and to locate all areas having sufficient qualifications to warrant detailed survey to determine their irrigability or value as spreading areas.

2. The soils are mapped by types on a reconnaissance basis in which the following textural classes are grouped; (1) all sands, (2) all sandy loams, (3) loam and silt loam, (4) all clay loams, and (5) all clays.

The areas delineated on the maps, in addition to furnishing the above information, are further classified according to their potential productivity as grassland, their apparent silt-producing character, and their run-off producing qualities. Certain likely areas are further classified according to their adaptability to irrigation.

In addition to this, the reconnaissance survey furnishes certain information regarding the value of the soils for construction purposes, and their water-holding capacity, etc.

3. All these evaluations are made, taking into consideration such factors as the character of the soil type, the slope and erosion conditions, vegetal cover and laboratory analyses. It must be remembered, however, that the application of those factors is generalized to some extent just as the soil textural classes are. Except for these generalizations, the Detailed Reconnaissance Conservation Survey" conforms to the Procedure for Making Soil Conservation Surveys, outline No. 4.

4. The approximate cost per square mile of reconnaissance

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CV-6417-201 NN005163

Survey for the fiscal year 1936- 1937 is:

Field Work ----------$ 0.960
Compilation ---------- .512

5. Not Applicable.

6. Close cooperative relations were maintained with all other divisions of the Soil Conservation Service.

C. DETAILED CONSERVATION SURVEYS:

1. These surveys are made for the purpose of supplying information required to develop detailed land use plans for demonstration areas, irrigation projects and cooperative agreements.

2. With the exception of some of the surveys made in or before 1935, they show all information required by present standards for conservation surveys; and they show it in great detail as compared to the generalized information shown by the reconnaissance conservation survey.

3. Soil nomenclature conforms with that used by the Bureau of Chemistry and Soils, and the accuracy of delineation is comparable to that used by the Bureau for planetable and aerial photographic surveys.

Those areas surveyed prior to and during the early part of 1935 were detailed soil surveys only, not conservation surveys Following is a list of areas mapped by such a survey:

A-I-1	A-I-7	A-I-13
A-I-3	A-I-8	A-I-22
A-I-4	A-I-9	N-I-2
A-I-5	A-I-10	N-I-3
A-I-6	A-I-11	N-I-8

4. The approximate cost per square mile of field work during the fiscal year 1936-1937 was $ 43.04 and for compilation over the same period was $ 27.58. The use of aerial photographs has undoubtedly lowered the cost of field work recently.

5. Not applicable.

6. Cooperation with other agencies in making detailed conservation surveys on the Navajo Indian Reservation is confined principally to using available base maps prepared by engineers at N-I-7 and A-I-2. Outside the Reservation, the various members engaged in preparing land use plans for cooperative agreements work to gether as much as possible, particularly when actually formulating the land use plan.

WR 13252

CV-6417-201 NN005164

ADDENDA

1. Certain detailed conservation survey serial numbers are followed by (s), and others either by (c) or no letter. The (s) signifies that the survey is a soil survey only. All other detail surveys are conservation surveys.

2. Information regarding "alkali" in soils is secured in all "K" and "I" surveys.

ERRATA

1. In numerous write-ups the word triangular appears under IV D. It is a typographic error and should read triangulation.

WR 13253

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 mpa 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 (Detailed Reconnaissance surveys)
Intensive	I (Detailed Conservation Surveys.)

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.

WR 13254

CONSERVATION SURVEYS

- ARIZONA -

A-P-1. (PRELIMINARY STUDIES - NAVAJO RESERVATION)

I. Compilation scale: 1" = 1 mile.

II. Not applicable.

III. Source of base maps: Aerial Mosaics.

IV. Accuracy of base maps: Regional office.

V. Not applicable.

VI. Information shown by study: Prominent geographic features; principal cultural features (telephone lines, roads, trading posts, fields, etc.); potential arable areas; potential spreading areas; highly generalized delineation of erosion conditions, major soil types in land management unit 8, major land use classes, and slope classes.

VII. Will not be completed as preliminary studies.

VIII-X. Publication not planned.

XI. No cooperating agencies.

A-R-1. (RECONNAISSANCE CONSERVATION SURVEYS -NAVAJO RESERVATION)

I. Compilation scale: 1" = 1 mile.

II. Not applicable.

III. Source of base maps; aerial mosaic.

IV.

IV. Accuracy of base maps: Regional office.

V. Not applicable.

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1 Will be completed as reconnaissance conservation surveys - not as preliminary studies.

WR 13255

CV-6417-201 NN005167

VI. Information shown:

1. Wind and water erosion.

2. Land use.

3. Slope classes.

4. Soil Type.

5. Range land soil group.

6. Agricultural land soil group classification on areas of favorably situated soil areas.

7. Principal cultural and physiographic features

8. Silt-producing and runoff producing classification.

9. Characteristics of soil types as per Bureau of Chemistry and Soils standards for a reconnaissance survey.

10. Dispersion of clay fraction and evaluation of soil types suitability for use in earth structures.

11. Location of critical areas recommended for treatment.

12. Areas worthy of detailed surveys: for irrigation for waterspreading.
Amount of detail: less than that required by detailed conservation surveys. Areas somewhat generalized (See introductory paragraph on these surveys). Valley soils mapped in greater detail than upland soils, but rarely is an area less than one section in extent mapped.

Extent of detail: about 98 percent of all cultural and physiographic features are mapped. the entire accessible area is covered by the survey.

VII. Completion of field work: by June 30,1938.

VIII-I. No Publication planned.

XI. No cooperation with other agencies.

WR 13256

CV-6417-201 NN005168

CONSERVATION SURVEYS

ARIZONA

A-I-1. (Detailed Conservation Survey-
Kayenta Demonstration Area)

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base map: Planetable sheets.

IV. Accuracy of base map:

A. Accuracy in geographical position of any clearly identifiable plotted point, in decimal parts of an inch, measured at compilation scale.

(1) Average error of position of all points: .1.
(2) Maximum error of position of any point : .4.

B. Relative error in distance between any two identifiable plotted points, in decimal parts of an inch. measured at compilation scale.

(1) Points 1/2" apart on map.

(a) Average: .1
(b) Maximum: .2

(2) Points 2" apart on map.

(a) Average .1
(b) Maximum .2

(3) Points 10" apart on map.

(a) Average .1
(b) Maximum .4

C. Method by which map compiled.

(a) Graphic intersection.
(b) Chained traverse.
(c) Pace traverse.

WR 13257

D. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of traverses per planetable sheet: 2.

(2) Number of square miles per control points 1 1/2.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown by survey or study:

A. Soil type, alkali, cultural features, physiographic features, all mapped in great detail.

B. This survey differs from the standard conservation survey in that the other factors mapped in accordance with Outline #4 are not shown.

VII. Date, or estimated future date, of completion of field work or collection of information and compilation: unknown

VIII. Date, or estimated future date, of publication: unknown.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable:

XI. Cooperation: None.

A-I-2. (DETAILED CONSERVATION SURVEY - Kayenta Farms)

I. Compilation scale of survey: 1" = 400'

II. Not published.

III. Source of base map: U.S.I.S. Engineering map.

IV. Accuracy of base map.

A. (see A-I-1)
B. (see A-I-1)
C. (A-I-1).

WR 13258

D. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of points or traverses per plan-table sheet: 1.

(2) Number of square miles per control point: 1. approximate distribution of traverses: perimeter.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map. in decimal parts of an inch, measured at compilation scale: .2.

VI. (see A-I-1).

VII. Date of completion: December, 1937.

VIII. Date of publication: not planned.

IX. Type of publication: npt planned.

X. Extent to which publications available and now abtainable: not published.

XI. Cooperation: none.

A-I-3/ (Detailed Conservation Survey -Ganado Demonstration Area)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: planetable survey.

IV. Accuracy of base map:

A. Accuracy in geographical position of any clearly identifiable plotted point, in decimal parts of an inch, measured at compilation scale.

(1) Average error of position of all points: .2
(2) Maximum error of position of any point: .4

B. Relative error in distance between any two identifiable plotted points, in decimal parts of an inch, measured at compilation scale.

WR 13253

(1) Points 1/2" apart on map.

(a) average: .15
(b) Maximum: .3

(2) Points 2" apart on map.

(a) Average: .15
(b) Maximum: .3

(3) Points 10" apart on map.

(a) Average: .2
(b) Maximum: .4

C. Method by which map compiled.

(1) Plane table.

(a) Grpahic intersection.

(b) Chained traverse.

(c) Paced traverse.

2. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of points or traverses per planetable sheet: 4

(2) Number of square miles per control points: 2, approximate distribution of traverses: planimeter and reading.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scales, .2

VI. (see A-I-1)

VII. Date of completion, October, 1934

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable not published.

WR 13260

XI. Coopera tionb None.

A-I-4. (Detailed Conservation Survey-
Navajo Canyon Demonstration Area)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base maps. Planetable survey.

IV. Accuracy of base maps.

A. (see A-I-1).
B. (see A-I-1).
C. (see A-I-1).
D. Is area completely controlled by third order triangualtion or traverse? No.

(1) Number of points or traverses per planetable sheets 1.
(2) Number of square miles: 1 1/2, approximate distribution of traverses: center.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. (see A-I-1).

VII. Da te of completion, August, 1935

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: none.

WR 13261

A-I-5. (8) (DETAILED CONSERVATION SURVEY-STEAMBOAT CANYON, D. A.)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: Plane table survey.

IV. Accuracy of base map: See A-I-3.

D. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of points or traverse per plane table sheet: 3.

(2) Number of square miles per control point: 1, approximate distribution of traverse: perimeter and center.

V. Accuracy in location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale 0.2

VI. Information shown: See A-I-1.

VII. Date of completion: October, 1934

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

A-I-6. (C) (DETAILED CONSERVATION SURVEY-PINTO CANYON, D.A.)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: Plane table survey.

WR 13262

IV. Accuracy of base map:

A. See A-1-3

B. See A-1-3

C. See A-1-3

D. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of points or traverse per plane table sheet: 1.

(2) Number of square miles per point: 1.5, approximate distribution of traverse: Central.

V. Accuracy in location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2.

VI. Information shown by survey:

A. Erosion classes, land use, slope class, soil type, and all physiological and cultural features mapped and all physical features to meet requirements of standard Outline No. 4. Detailed information regarding suitability of soils for use in earth structures is also given.

B. These surveys are in great detail as compared to the reconnaissance surveys.

VII. Date of compilation: June, 1935

VIII. Date of publication: Not planned.

IX. Type of publication Not planned.

X. Extent to which publications available and now obtainable: Not published.

XI. Cooperation: None.

A-1-7. (8) (DETAILED CONSERVATION SURVEY- KLAGETON, D.A.)

I. Compilation scale of survey: 4" = 1 mile.

WR 13263

II. Not published.

III. Source of base map: plane table survey.

IV. Accuracy of base map:

A. See A-1-3.

B. See A-1-3

C. See A-1-3

D. Is area completely controlled by third order triangulation or traverse ? No

(1) Number of points or traverses per plane table sheet: 4.

(2) Number of square miles per control point: 1.5, approximate distribution of traverses: perimeter, 2 in center.

V. Accuracy in location of plotted survey information:

A. Accuracy in relation of nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: See A-1-1.

VII. Date of compilation: July, 1935

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable: Not published.

XI. Cooperation: None.

X. Cooperation: None.

A-1-8. (8) (DETAILED CONSERVATION SURVEY-MOHAVE, B. A.)

I. Compilation scale of survey: 4" = 1 mi.

II. Not published.

WR 13264

III. Source of base map: plane table survey.

IV. Accuracy of base map:

a. See A-I-8

b. See A-I-8

c. See A-I-8

d. Is area completely controlled by third order triangulation or traverse? No

(1) Number of points or traverses per plane table sheet: 1.

(2) Number of square miles per control point: 2, approximate distribution of traverses: perimeter and center.

V. Accuracy in location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.4.

VI. Information shown: See A-I-1.

VII. Date of compilation: indefinite.

VIII. Date or estimated future date, of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable not published.

XI. Cooperation: none.

A-I-9 (8) (DETAILED CONSERVATION SURVEY-GOVT, D. A.)

I. Compilation scale of survey: 1" = 2200'.

II. Not published.

III. Source of base map: plane table survey.

IV. Accuracy of base map:

WR 13265

A. See A-I-3

B. See A-I-3.

C. See A-I-3/

D. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of points or traverses per plane table sheet: 3.

(2) Number of square miles per control points 0.5 approximate distribution of traverses, Perimeter and center.

V. Accuracy of location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.2

VI. Information shown See A-I-1

VII. Date of compilation: indefinite.

VIII. Date, or estimated future date, of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable Not published.

XI. Cooperation: None.

A-I-10 (S) (DETAILED CONSERVATION SURVEY-DINNEHOTSO AREA)

I. Compilation scale of survey: 4"= 1 mile.

II. Not published.

III. Source of base map: Plane table survey.

IV. Accuracy of base map:

A. See A-III

B. See A-I-1

WR. 13266

C. See A-I-1

D. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of points or traverses per plane table sheet 3.

(2) Number of square miles per control point: 1, approximate distribution of traverses: center and sides.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.1.

VI. Information shown: See A-I-1

VII. Date of compilation: 1935

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

A-I-11 (C) (DETAILED CONSERVATION SURVEY-CHINLI AREA)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map Plane table survey.

IV. Accuracy of base map:

A. See A-I-1

B. See A-I-1

C. See A-I-1

WR 13267

D. Is area completely controlled by third order triangulation or traverse? No

(1) Number of points or traverses per plane table sheet: 1.

(2) Number of square miles per control point: 2. approximate distribution of traverses: Central with offsets.

V. Accuracy in location of plotted survey information:

A.

Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.2

VI. Information shown: See A-I-6

VII. Date of compilation: January 1, 1936

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable Not published.

XI. Cooperation: None.

A-I-12. (C) (DETAILED CONSERVATION SURVEY-POLARI LAKES AREA)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base maps: plane table survey.

IV. Accuracy of base maps:

A. See A-I-3

B. See A-I-3

C. See A-I-3

D. Is area completely controlled by third order triangulation or traverse? No

(1) Number of points or traverses per plane table sheet: 2

(2) Number of square miles per control point: 2. approximate distribution of traverses: perimeter.

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C. See A-I-1

D. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of points or traverses per plane table sheet 3.

(2) Number of square miles per control point: 1, approximate distribution of traverses: center and sides.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.1.

VI. Information shown: See A-I-1

VII. Date of compilation: 1935

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

A-I-11 (C) (DETAILED CONSERVATION SURVEY-CHINLI AREA)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map Plane table survey.

IV. Accuracy of base map:

A. See A-I-1

B. See A-I-1

C. See A-I-1

WR 13267

D. Is area completely controlled by third order triangulation or traverse? No

(1) Number of points or traverses per plane table sheet: 1.

(2) Number of square miles per control point: 2. approximate distribution of traverses: Central with offsets.

V. Accuracy in location of plotted survey information:

A.

Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.2

VI. Information shown: See A-I-6

VII. Date of compilation: January 1, 1936

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable Not published.

XI. Cooperation: None.

A-I-12. (C) (DETAILED CONSERVATION SURVEY-POLARI LAKES AREA)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: plane table survey.

IV. Accuracy of base maps:

A. See A-I-3

B. See A-I-3

C. See A-I-3

D. Is area completely controlled by third order triangulation or traverse? No

(1) Number of points or traverses per plane table sheet: 2

(2) Number of square miles per control point: 2, approximate distribution of traverses: perimeter.

WR 13268

V. Accuracy on location of plotted information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale 0.2

VI. Information shown See A-I-6

VII. Date of compilation: June, 1936

VIII. Date of publication: Not planned.

IX. Type of publication Not planned.

X. Cooperation. None.

A-I-13. (S) (DETAILED CONSERVATION SURVEY-NAVAJO CENTRAL AGENCY AREA) 31½ percent of area encircled 2500 acres surveyed.

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: Plane table survey.

IV. Accuracy of base map:

A. See A-I-1

B. See A-I-1

C. See A-I-1

D. Is area completely controlled by third order triangulation or traverse? No

(1) Number of points or traverses per plane table sheet: 3

(2) Number of square miles per control points: 0.33, approximate distribution of traverses: Perimeter and center.

V. Accuracy in location of plotted survey information:

A Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale 0.2.

WR 13269

VI. Information shown: See A-I-1.

VII. Date of compilation: October, 1935

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Cooperation: None.

A-I-14. (C) (DETAILED CONSERVATION SURVEY-ROCK POINT AREA)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: plane table survey.

IV. Accuracy of base map:

A. See A-I-3

B. See A-I-3

C. See A-I-3

D. Is area completely covered by third order triangulation or traverse? No.

(1) Number of points or traverses per plane table sheet: 2

(2) Number of square miles per control point: 1, approximate distribution of traverses: perimeter.

V. Accuracy in location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measure at compilation scale: 0.2

VI. Information shown: See A-I-6

VII. Date of compilation: June, 1936

WR 13270

VIII. Date of publication: Not planned

IX. Type of publication: Not planned.

X. Cooperation: None.

A-I-15. (D) (DETAILED CONSERVATION SURVEY-LUKACHUKAI AREA)
27.0 per cent of area encircled 528 acres surveyed.

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: Plane table survey.

IV. Accuracy of base map:

A. See A-I-1.

B. See A-I-1

C. See A-I-1

D. Is area completely controlled by third order triangulation or traverse? No

(1) Number of points or traverses per plane table sheet: 6

(2) Number of square miles per control point: 0.5, approximate distribution of traverses: Center and intersecting.

V. Accuracy in location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.2

VI. Information shown: See A-I-6

VII. Date of compilation: June, 1936

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

WR 13271

X. Extent to which publications available and now obtainable; Not published.

XI. Cooperation: None.

A-I-16 (C) (DETAILED CONSERVATION SURVEY-WAZLIKI AREA)
62 percent of area encircled 135½ acres surveyed.

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: Aerial contacts.

IV. Accuracy of base map: See Regional Memorandum.

A. See Regional Memorandum

B. " " "

C. See Method by which compiled: Aerial photographs.

(1) Type of photographs: Contact prints.

(2) Scale: 2" = 1 mile (Approximately)

V. Accuracy of location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.2

VI. Information shown: See A-I-6

VII. Date of completion of compilation: October, 1936

VIII. Date of publica tion: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publica tions available and now obtainable not published.

XI. Cooperation: None.

WR 13272

A-1-17. (C) (DETAILED CONSERVATION SURVEY-TSAILEE AREA)

I. Compilation scale of survey: 2" =1 mile (Approximately)
II. Not published.

III. Source of base map: Aerial contacts.

IV. Accuracy of base map:

A. See Regional Memorandum

B. " " "

C. Method by which map compiled: Aerial photographs.

(1) Type of photograph: Contact print.

(2) Scale: 2" = 1 mile (Approximately)

V. Accuracy in location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.2

VI. Information shown: See A-I-6

VII. Date of completion of compilation: September, 1936

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned

X. Extent to which publications available and now obtainable: Not published.

XI. Cooperation: None.

WR 13273

A-I-18. (C) (DETAILED CONSERVATION SURVEY-WHEAT FIELDS AREA)

I. Compilation scale of survey: 2" = 1 mile (approximately)

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps:

A. See Regional Memorandum

B. " " "

C. Method by which map compiled:

Aerial photographs

(a) Type of photograph contact, 4 couple.

(B) Scale, 2" = 1 mile. (approximately)

D. Is area completely controlled by third order triangulation or traverse? No.

V. Accuracy in location of plotted survey information: Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale, .2

VI. Information shown: (see A-I-6)

VII. Date of completion of compilation: Sept. 1936

VIII. Date, or estimated future date, of publication: not planned.

IX. Type of publication: Not planned.

X. Extent to which publication available and now on not published.

XI. Cooperation: None.

A-I-19 (C) (DETAILED CONSERVATION SURVEY-CONCHO AREA)

I. Compilation scale of survey: 4" = 1 mile.

WR 13274

II. Not published.

III. Source of base map: planetable survey.

IV. Accuracy of base maps:

A. (See A-I-1)

B. (See A-I-1)

C (See A-I-1)

D. Is area completely controlled by third order triangulation or traverse? No.

(1) Number of points or traverses per planetable sheet. 4

(2) Number of square miles per control point 5, approximate distribution of traverses, perimeter and 2 center.

V. Accuracy in location of plotted survey information:

Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale. .2

VI. Information shown: See A-I-6

VII. Date of completion of compilation: Feb. 1956

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

A-I-20. (C) (DETAILED CONSERVATION SURVEY-MALKER CREEK AREA)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps:

A. (See Regional Memorandum)

B. (See Regional Memorandum

WR 13275

C. Method by which map compiled: Aerial photographs.

(1) Type of photograph, Contact, 4 couple.

(2) Scale: 2" = 1 mile (approximately)

D. Is area completely controlled by third order triangulation or traverse? No.

V. Accuracy in location of survey information:

Accuracy in relation to nearest plotted point in base map, in decimal parts of an inch, measured at compilation of scale, of

VI. Information shown: See A-1-6

VII. Date of completion of compila tion: July, 1936

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable not published.

XI. Cooperation: None.

A-1-21. (C) (DETAILED CONSERVATION SURVEY-DOHEY PARK, FLAGSTAFF AREA)
25 percent of area encircled 500 acres surveyed.

I. Compilation scale of survey: 2" = 1 mile.

II. Not published

III. Source of base maps: aerial contacts.

IV. Accuracy of base maps:

A. See Regional Memorandum

B. " " "

C. Method by which map compiled: aerial photographs.

(1) Type of photograph: contact print

(2) Scale: 2" = 1 mile. (approximately)

WR 13276

D. Is area completely controlled by third order triangulation or traverse? No

V. Accuracy in location of plotted survey information.

Accuracy in relation to nearest plotted point on the base map, in decimal parts of and inch, measured at compilation scale, 12"

VI. Information shown: See A-I-6

VII. Date of completion of compilation: indefinite.

VIII. Date of publication: Not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

A-I-22. (S) (DETAILED CONSERVATION SURVEY-FRAZIER D. A. SUB AREA #2) 32 percent of area encircled. 640 acres surveyed.

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base maps: plane table survey.

IV. Accuracy of base maps:

A. See A-I-3

B. See A-I-3

C. See A-I-3

D. Is area completely controlled by third order triangulation or traverse? No

(1) Number of points or traverse per plane table sheet: .2.

WR 13277

(2) Number of square miles per control point = 2.
approximate distribution of traverses = perimeter.

V. Accuracy in location of plotted survey information:

Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale = .2"

VI. Information shown: See A-I-1.

VII. Date of completion of compilation: March 1935

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable not published.

XI. Cooperation: None.

A-I-23. (C) (DETAILED CONSERVATION SURVEY-LAND LOCK CROSSING AREA)
84 percent of area encircled 1640 acres surveyed.

I. Compilation scale of survey = 2" = 1 mile.

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps: See Regional Memorandum.

A. See Regional Memorandum.

B. " " "

C. Method by which map compiled: Aerial photographs

(1) Type of photograph Contact prints.

(2) Scale 2" = 1 mile (approximately.)

WR 13278

D. Is area completely controlled by third order triangulation or traverse? No.

V. Accuracy in location of plotted survey informations.

Accuracy in relation to nearest plotted point on base map in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: See A-I-6

VII. Date of completion, June 1936

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

A-I-24. (DETAILED CONSERVAITON SURVEY-LOWER MOENCOPI AREA)

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base maps: U.S.I.S. Irrigation.

IV. Accuracy of base maps:

A. Not Known

B " "

C. " "

D. Is area completely controlled by third order triangulation or traverse? No.

V. Accuracy in location of plotted survey information:

Accuracy in relation to nearest plotted point on base map in decimal parts of an inch, measured at compilation scale .2"

VI. Information shown: See A-I-6

VII. Date of completion: 1936

WR 13279

VIII. Date of Publication: Not planned.

IX. Type of publication; not planned.

X. Extent to which publications available and now obtainable not published.

XI. Cooperation: None.

A-I-25. (C) (DETAILED CONSERVATION SURVEY OAK SPRINGS AREA) 35 percent of area encircled 1080 acres surveyed.

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps:

A. See Regional Memo.

B " " "

C. Method by which map compiled: Aerial photographs

(1) Type of photograph: Contact prints.

(2) Scale 2" = 1 mile (approx.)

D. Is area completely controlled by third order triangulation or traverse? No.

V. Accuracy in location of plotted survey information: Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale, .2".

VI. Information shown: See A-I-6.

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication: " "

X. Extent to which publications available and now obtainable not published.

XI. Cooperation: None.

WR 13280

A-I-26. (C) (DETAILED CONSERVAITON SURVEY DENNEBITO AREA)
88 percent of area encircled.
1790 acres surveyed.

I. Compilation scale of surv , 2"= 1 mile.

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps: See Regional Memorandum.

A. 4 See Regional Memorandum.)

B. " " "

C. Method by which map compiled: Aerial Photographs

1. Type of photograph: Contact Prints.

2. Scale: 2"= 1 mile (approx.)

V. Accuracy in location of plotted survey information.

a. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: See A-I-6

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication: " "

X. Extent to which publications available and now obtainable not published.

XI. Cooperation: None.

A-I-27 (C) (DETAILED CONSERVATION SURVEY, RED LAKE AREA)
36 percent of area encircled.
2465 acres surveyed.

WR 13281

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps:

A. See Regional Memo.

B. " " "

C. Method by which map compiled: Aerial photographs.

1. Type of photograph: Contact prints.

2. Scale: 2" = 1 mile (approx.)

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2"

VI. Information shown. See A-I-6

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication: " "

X. Extent to which publications available and now obtainable Not published.

XI. Cooperation: None.

A-I-28. (C) (DETAILED CONSERVATION SURVEY WOOD SAMARITAN MISSION)

6 percent of area encircled.
120 acres surveyed.

I. Compilation scale of survey: 1" = 400 feet.

II. Not published.

III. Source of base maps: Plane table survey.

WR 13282

IV. Accuracy of base maps:

A. See A-I-1.

B. See A-I-1

C. See A-I-1

D. Is area completely controlled by third order triangulation or traverse? No.

1. Number of points or traverses per plane table sheet: 1

2. Number of square miles per control point and approximate distribution of traverses: 1/4.

V. Accuracy in location of plotted survey information

a. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2".

VI. Information shown: See A-I-6.

VII. Date of completion: 1937

VIII. Date of publication: not planned.

IX. Type of publication. Not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

WR 13283

A-I-29. (DETAILED CONSERVATION SURVEY UPPER ROCK POINT AREA)

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base maps: Aerial contact.

IV. Accuracy of base maps:

A. See Regional Memorandum

B. " " "

C. Method by which map compiled: Aerial photographs

1. Type of photograph: contact prints.
2. Scale 2" = 1 mile (approx)

D. Is area completely controlled by third order triangulation or traverse? No.

V. Accuracy in location of plotted survey information:

Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale .2"

VI. Information shown: See A-I-6.

VII. Date of completion 1936

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publication available and now obtainable: Not published.

XI. Cooperation: none.

A-I-30. (DETAILED CONSERVATION SURVEY ROUND ROCK AREA).

I. Compilation scale of survey: 2"= 1 mile.

WR 13284

II. Not published.

III. Source of base maps: Aerial contact.

IV. Accuracy of base maps:

A. See Regional Memorandum

B. " " "

C. Method by which map compiled: Aerial photographs

1 Type of photograph: contact prints.

2 Scale 2" = 1 mile (approx.)

D. Is area completely controlled by third order triangulation or traverse? No.

V. Accuracy in location of plotted survey information:

Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2"

VI. Information shown: See A-I-6.

VII. Date of completion June, 1936

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: none.

A-I-31. (DETAILED CONSERVATION SURVEY WEPO AREA.)

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps:

A. See Regional Memorandum.

B. " " "

WR 13285

C. Method by which map compiled: Aerial photographs

1 Type of photograph: contact prints.

2 Scale 2" = 1 mile (approx.)

V. Accuracy in location of plotted survey information:

Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale, .2"

VI. Information shown: See A-I-6

VII. Date of completion: 1937

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable not published.

XI. Cooperation: None.

A-I-32. (DETAILED CONSERVATION SURVEY RED MESA AREA).

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base maps: plane table survey.

IV. Accuracy of base maps:

A. See A-I-3

B. See A-I-3.

C. See A-I-3.

D. Is area completely controlled by third order triangulation or traverse? No.

1. Number of points or traverses per plane table sheet: 3.

WR 13286

(2) Number of square miles per control point and approximate distribution of traverses. 4.

V. Accuracy in location of plotted survey information:

Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale. .2

VI. Information shown: See A-I-6

VII. Date of completion 1936

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable not published.

XI. Cooperation: None.

WR 13287

CONSERVATION SURVEYS

NEW MEXICO

N-P-1. (PRELIMINARY STUDIES—NAVAJO RESERVATION).

I. Compilation scale 1" = 1 mile.

II. Not applicable.

III. Source of base maps: Aerial mosaics.

IV. Accuracy of base maps: Regional office.

V. Not applicable

VI. Information shown by study:

Prominent geographic features.

Principal cultural features (telephone lines, roads, trading posts, fields, etc.)

Potential arable areas.

Highly generalized delineation of erosion conditions.

Major soil types in L. M. U. & M, major land use classes. and slope classes.

VII. Will not be completed as preliminary studies.

VIII. *

IX. *— Publication not planned.

X. *

XI. Agencies cooperating: None.

* Will be completed as reconnaissance conservation surveys- not as preliminary studies.

WR 13288

CONSERVATION SURVEYS

NEW MEXICO

N-E-1 (RECONNAISSANCE CONSERVATION SURVEYS NAVAJO RESERVETION)

I. Compilation scales: 1" = 1 mile.

II. Not applicable

III. Source of base maps: Aerial Mosaic

IV. Accuracy of base maps: Regional office.

V. Not applicable.

VI. Information shown:

1. Wind and water erosion.

2. Land use.

3. Slope classes.

4. Soil type

5. Range land soil group

6. Agricultural land soil group classification on areas of favorably situated soil areas.

7. Principal cultural and physiographic features.

8. Silt-producing and run off producing classification.

9. Charzoteristics of soil types approximately as per Bureau of Chemistry and Soils Standards for a reconnaissance survey.

10. Dispersion of clay fraction and evaluation of soil types suitability for use in earth structures.

11. Location of critical areas recommended for treatment.

12. Areas worth of detailed surveys:

* 624,288 acres will be surveyed in L.M.U. 14.

WR 13289

A. For irrigation

B. For water-spreading.

Amount of detail, less than that required by detailed conservation surveys. Areas somewhat generalized (See introductory paragraph on these surveys). Valley soils mapped in greater detail than upland soils, but rarely is an area less than one section in extent mapped.

Extent of detail: About 50 percent of all cultural and physiographic features are mapped. The entire accessible area is c covered by the survey.

VII. Completion of field work and compilation planned by end of of fiscal year.

VIII. No publication planned.

IX. " " "

X. " " "

XI. None.

WR 13290

N-E- 1 (RECONNAISSANCE CONSERVATION SURVEYS FARMINGTON)
and
N-E- 2 (RECONNAISSANCE CONSERVETION SURVEYS AZTEC)

I. Compilation scale of survey: 2" = 1 mile.

II. Not applicable

III. Source of base maps: Aerial survey, 1937, using G.L.O. corners and surveyed land lines for controls.

IV. Accuracy of base maps: (See Regional Memorandum)

C. Method by which map compiled

Aerial photograph

a. Type of photograph: Contact prints, 1937

b. Scale: Approximately 2" = 1 mile

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.1

VI. Information furnished:

VII. Date of completion: May, 1938

VIII.
... Refer to N-E-1, Navajo reservation.
XI.

WR 13291

CONSERVATION SURVEYS

NEW MEXICO

N-I-1 (DETAILED CONSERVATION SURVEY MEXICAN SPRINGS)

I. Compilation scale of survey, 2" = 1 mile.

II. Not published

III. Source of base maps: Aerial mosaic.

IV. Accuracy of base maps:

A.

....See Regional memorandum.

B.

C. Method by which map compiled.

Aerial photographs.

a. Type of photograph: Aerial mosaic.

b. Scale: 2" = 1 mile.

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown by survey:

A. Erosion classes, land use, slope class, soil type and all physiological and cultural features mapped to meet requirements of standard Outline # 4. Detailed information regarding suitability of the soils for use in earth structures is also given.

B. These surveys are in great detail as compared with those made on Reconnaissance surveys.

VII. Date of completion: November, 1937

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

WR 13292

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

N-I-2. (DETAILED CONSERVATION SURVEY SHIPROCK NURSERY)

35 percent of area encircled, 700 acres surveyed.

I. Compilation scale of survey: 1" = 1000'

II. Not published

III. Source of base maps: plane table survey

IV. Accuracy of base maps:

A. Accuracy in geographical position of any clearly identifiable plotted point, in decimal parts of an inch, measured at compilation scale.

1. Average error of position of all points .1

2. Maximum error of position of any point .4

B. Relative error in distance between any two identifiable plotted points, in decimal parts of an inch, measured at compilation scale.

1. Points 1/2" apart on map

A. Average .1
B. Maximum .2

2. Points 2" apart on map

A. Average .1

B. Maximum .2

3 Points 10" apart on map

A. Average .1

B. Maximum .4

WR 13293

C. Method by which map compiled.

1. Plane table

a Graphic intersection
b Chained traverse.
c. Paced traverse.

D. Is area completely controlled by third order triangular or traversed? No.

1 Number of points or traverses per plane table sheet: 2
2 Number of square miles per control point: 1/2
approximate distribution of traverses: center.

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 2

VI. Information shown: See N-I-1

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

N-I-3 (S) (DETAILED CONSERVATION SURVEY-CHUSKA)

655 percent of area encircled
1280 acres surveyed.

I. Compilation scale of survey: 1" = 1000'

II. Not published

III. Source of base maps: plane table survey.

WR 13294

IV. Accuracy of base maps;

(See N-I-2)

V. Accuracy in location of plotted survey information

A Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown by survey or study.

A. Soil type, alkali, cultural features, physiographic features, all mapped in great detail.

B. This survey differs from the standard Conservation survey in that the other factors mapped in accordance with outline # 4 are not shown.

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

N-1-4. (DETAILED CONSERVATION SURVEY AZTEC AREA)

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps: See Regional Memorandum

A. Method by which map compiled

a. Type of photograph: Aerial contact
b. Scale: 2" = 1 mile (approximately)

WR 13295

V. Accuracy in location of plotted survey information

A. accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown:

(See N-I-1)

VII. Date of completion: 1938

VIII. Date, or estimated future date, of publication, Not planned.

IX. Type of publication: not planned.

X. Extent towhich publications available and now obtainable not published.

XI. Cooperation: None.

N-I-5. (DETAILED CONSERVATION SURVEY FRUITLAND IRRIGATION PROJECT)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base map: Plane table survey

IV. Accuracy of base maps:

See N-I-2

A. Is area completely controlled by third order triangular or traverse? no.

1. Number of points or traverses per plane table sheet: 2

2. Number of square miles per control point: 1/2 and approximate distribution of traverses: Perimeter.

V. Accuracy in location of plotted survey information

A Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

WR 13296

VI. Information shown:

(See N-I-1)

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication: Not planned.

X. Extent to which publication available and now obtainable, not published.

XI. Cooperation: None.

N-I-6. (DETAILED CONSERVATION SURVEY FARMINGTON RESERVOIR AREA)

27 percent of area encircled 604 acres surveyed.

I. Compilation scale of survey: 1" = 400'

II. Not published

III. Source of base maps: SCS Engineering Map;

IV. Accuracy of base maps: (See N-I-2)

IV. Accuracy in location of plotted survey information:

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown:

(See N-I-1)

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication : Not planned.

X. Extent to which publication available and now obtainable not published.

XI. Cooperation: None.

WR 13297

N-I-7. (DETAILED CONSERVATION SURVEY NASCHITI)

15 percent of area encircled 307 acres surveyed

I. Compilation scale of survey: 2" = 1 Mile.

II. Not published.

III. Source of base maps: Aerial contacts

IV. Accuracy of base maps: See Regional memorandum

A. Method by which map compiled

Aerial photographs

a Type of photograph: Aerial contacts

b. Scale: 2" = 1 mile (approximately)

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: (See N-I-1)

VII. Date of completion: 1937

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and how obtainable: not published.

XI. Cooperation: None.

N-I-8. (DETAILED CONSERVATION SURVEY-FT. WINGATE SUB-AREA 4)

10 percent of area encircled 200 acres surveyed.

I. Compilation scale of survey: 1" = 300'

WR 13298

II. Not published.

III. Source of base maps: SCS Engineering map plane table

IV. Accuracy of base maps: (See N-I-2)

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: (See N-I-1)

VII. Date of completion: 1937

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

N-I-9 (DETAILED CONSERVATION SURVEY - MORMON FLAT)

4 percent of area encircled 78 acres surveyed.

I. Compilation scale of survey: 2" = 1 mile

II. Not published

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps: See Regional Memorandum

C. Method by which map compiled.

Aerial photographs

a Type of photograph: Contact prints
b Scale: 2" = 1 mile (approximately)

WR 13299

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: (See N-I-1)

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication: not planned.

X. Cooperation: None.

N-I-10. (DETAILED CONSERVATION SURVEY TOTHLAKAI AREA)

44 percent of area encircled 857 acres surveyed.

I. Compilation scale of survey: 2" = 1 mile

II. Not published

III. Source of base maps: Aerial contacts

IV. Accuracy of base maps: See Regional Memorandum

C. Method by which map compiled

Aerial photograph:

a Type of photograph; Contact prints

b. Scale: 2" = 1 mile (approximately)

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: (See N-I-1)

WR 13300

VII. Date of completion: 1936

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: none.

N-I-11 (DETAILED CONSERVATION SURVEY RED LAKE)

64 percent of area encircled 1258 acres surveyed.

I. Compilation scale of survey: 2" = 1 mile.

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps: See Regional Memorandum

C. Method by which map compiled.

Aerial photographs

a Type of photograph, Contact prints
b Scale: 2" = 1 mile (approximately)

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: (See NOI-1)

VII. Date of completion: 1936

VIII. Date of publication: Not planned.

IX. Type of publication: " "

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

WR 13301

N-I-12 (DETAILED CONSERVATION SURVEY FARMINGTON AREA)

I. Compilation scale of survey: 2" = 1 mile

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps: See Regional Memorandum

C. Method by which map compiled.

Aerial photographs: Contact prints.

a Type of photograph: Contact prints.
b Scale: 2" = 1 mile (approximately)

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: (See N-I-1)

VII. Date of completion: 1937

VIII. Date of publication: Not planned.

IX. Type of publication: " "

X. Extent to which publications available and now obtainable: Not published.

XI. Cooperation: None.

N-I-13 (DETAILED CONSERVATION SURVEY FARMINGTON)

Numbers I to XI inclusive same as N-I-12

N-I-14 (DETAILED CONSERVATION SURVEY CLARK FARM)

I. Compilation scale of survey: 2" = 1 mile.

WR 13302

II. Not published.

III. Source of base maps: Aerial contacts.

IV. Accuracy of base maps: See Regional memorandum

C. Method by which map compiled

Aerial photographs

a Type of photograph: contact prints.

b Scale: 2" = 1 mile (approximately)

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown: (See N-I-1)

VII. Date of completion: 1937

VIII. Date of publication: not planned.

IX. Type of publication: " "

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation: None.

N-I-15. (DETAILED CONSERVATION SURVEY MARIANA LAKE.)

I. Compilation scale of survey: 4" = 1 mile.

II. Not published.

III. Source of base maps: Plane table survey

IV. Accuracy of base maps: (See N-I-2)

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

WR 13303

VI. Information shown: (See N-I-1)

VII. Date of completion: 1905

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. Extent to which publications available and now obtainable: Not published.

XI. Cooperation: None.

WR 13304

CONSERVATION SURVEYS

COLORADO

C-E-O (ECONNAISSANCE SURVEY (PRELIMINARY) IGNACIO AREA)

I. Compilation scale: 1" = 1 mile.

II. No maps published.

III. Source of base maps: U.S.G.S. quadrangle

IV. Accuracy of base maps:

A.

B.

C. Method by which map compiled.

a Contours and cultural topographic features
b Odometer (Speedometer)
c Pacing

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 10"

VI. Information shown:

This survey is general in nature, Major delineations of erosion conditions, land use, slope groups and soil textural classes not soil types were made. Each area was given a run-off and silt-producing grade and general observations concerning drainage, alkali, and other pertinent items were made and reported. Fences and roads were located on the base maps.

VII. Field work and compilation were completed August, 1937

VIII. No publication planned.

WR 13305

IX. No publication planned

X. No publication Planned.

XI. No cooperating agencies on survey.

C-E-1 (RECONNAISSANCE CONSERVATION SURVEY - DRY CREEK AREA, BAYFIELD)
C-E-2 " " " South Cortez Area }
C-E-3 " " " North " " }

C-E-1 (East) Bayfield Area, National Forest (Most portion C-E-1)

I. Compilation scale 1" = 1 mile.

II. No maps published.

III. Source of base maps: U.S.G.S. quadrangel

IV. Accuracy of base maps:

A.
B.
C. Method by which map compiled.

a. Contours and cultural topographic features
b. Odometer (Speedometer)
c Pacing

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .10"

VI. Information shown:

This survey is like that conducted in C-E-0 in scope, but will differ from that one in that major soil types will be delineated, instead of arbitrary soil textural classes.

WR 13306

VII. Field work and compilation were completed January, 1938

VIII. Date of publication: Unknown.

IX. None.

X. No Publications available

XI. No cooperative agencies.

C-E-1 (West) (RECONNAISSANCE CONSERVATION SURVEY DRY CREEK) AREA, BAYFIELD.

About 19,000 acres.

I. Compilation scale: 2" = 1 mile.

II. Not published.

III. Source of base maps: Aerial survey 1937

IV. Accuracy of base maps:

A. See Regional memorandum

B. " " "

C. Method by which map compiled:

Aerial photographs, commercial contact prints
Scale: 2" = 1 mile.

V. Accuracy in location of plotted survey information

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: 0.05"

VI. Information furnished: (refer to C-E-1, East)

VII. Date of completion of field work: June, 1938

VIII. Date of publication: Unknown.

IX. Type of publication: Not planned.

WR 13307

X. No publications:

XI. No Cooperating agencies.

C-E-2 (RECONNAISSANCE CONSERVATION SURVEY SOUTH CORTEZ AREA)

Approximately 55,000 acres.

I. Compilation scale: 2" = 1 mile.

II. Not published

III. Source of base maps: Aerial surveys, 1937

IV.
.-- Inclusive. (refer to C-E-1, West)
X.

C-E-3 (RECONNAISSANCE CONSERVATION SURVEY NORTH CORTEZ AREA)

Approximate area 13,000 acres.

Numbers 1 to XI, inclusive, Same as C-E-2.

WR 13308

C-R-1 (DETAILED CONSERVATION SURVEY FARM, SOUTHWEST OF FT. LEWIS COLLEGE)

75 percent of area shown.

I. Compilation scale of survey: 1" = 660'

II. Not published :

III. Source of base maps: plane table survey, using G.L.O. corners and surveyed land lines for control.

IV. Accuracy of base maps:

A. Accuracy in geographical position of any clearly identifiable plotted point, in decimal parts of an inch, measured at compilation scale.

1. Average error of position of all points .05"

2. Maximum error of position of any point .10"

B. Relative error in distance between any two identifiable plotted points, in decimal parts of an inch, measured at compilation scale:

1. Points 1/2" apart on map

a. Average .05"
b. Maximum .10"

2. Points 2" apart on map

a. Average .05"
b. Maximum .10"

3. Points 10" apart on map

a. Average .05"
b. Maximum .10"

C. Method by which map compiled.

1 Plane table

Graphic intersection
Odometer traverse (Speedometer)
Paced traverse.

WR 13309

D. Is area completely controlled by third order triangular or traverse? No.

(1) Number of traverses per plane table sheet: 6
(2) Number of square miles per control point: 1/3
approximate distribution of traverses, center and perimeter.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .10"

VI. Information shown:

A. Wind and water erosion classes, land use, slope groups, soil type, all significant cultural features (dwellings or other structures, roads, railroads, telephone lines, etc.) and all significant physiographic features (drainages, escarpment, etc.).

B. All features are shown in detail.

VII. Date, or estimated future date, of completion: 1937

VIII. Date of publication: not planned.

IX. Type of publication: Not planned.

X. Extent to which publication available is not published.

XI. No cooperation.

C.B. 2 (DETAILED CONSERVATION SURVEY RIDGEN BASIN)

I. Compilation scale of survey: 1" = 660'

II. Not published.

III. Source of base maps: Aerial survey and G.L.O. Corners for control.

IV. Accuracy of base maps:

A. Accuracy in geographical position of any clearly identifiable plotted point, in decimal parts of an inch, measured at compilation scale:
1 Average error of position of all points: .05"

WR 13310

2. Maximum error of position of any point: .10"

B. Relative error in distance between any two identifiable plotted points, in decimal parts of an inch, measured at compilation scale.

1 Points 1/2" apart on map

a Average .05"
b Maximum .10"

2 Points 2" apart on map

a Average .05"
b Maximum .10"

3 Points 10" apart on map

a Average .05"
b Maximum .10"

C. Method by which map compiled

Aerial photographs, flown by Regional office
Scale: 1"=1/2" = mile.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .1"

VI. See C-I-1

VII. Date of completion of field work: July, 1937

VIII. Date of publication: unknown.

IX. Type of publication: not planned.

X. Extent to which publication available and now obtainable: none.

XI. No cooperating agencies.

WR 13311

C-1-3 (DETAILED CONSERVATION SURVEY WILSON GULCH AREA, DURANGO)

I. Compilation scale of survey: 1" = 660'

II. Not published.

III. Source of base map: Plane table survey, using G.L.O. corners and surveyed land lines for control.

IV. Accuracy of base maps:

A. Accuracy in geographical position of any clearly identifiable plotted point, in decimal parts of an inch, measured at compilation scale.

1. Average error of position of all points: .05"

2. Maximum error of position of any point: .10"

B. Relative error in distance between any two identifiable plotted points, in decimal parts of an inch, measured at compilation scale.

1. Points 1/2" apart on map

a. Average .05"
b. Maximum .10"

2. Points 2" apart on map

a. Average .05"
b. Maximum .10"

3. Points 10" apart on map

a. Average .05"
b. Maximum .10"

C. Method by which map compiled

1. Plane table

Graphic intersection
Odometer traverse
Paced traverse.

D. Is area completely controlled by third order triangulation or traverse? No.

1 Number of points or traverses per plane table sheet: 6

WR 13312

2. Number of square miles per control point: 1/2
approximate distribution of traverses:

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .10"

VI. See C-I-1

VII. Date of completion: December, 1936

VIII. Date of publication: not planned.

IX. Type of publication " "

X. Extent to which publications available: none.

XI. No cooperating agencies.

C-I-4 (DETAILED CONSERVATION SURVEY DURANDO RECREATIONAL PARK)

I. Compilation scale of survey: 1" = 660'

II. Not published.

III. Source of base maps: plane table survey.

IV. Accuracy of base maps: Refer to C-I-1

A.

B.

C. Method by which map compiled.

1. Plane table

Graphic intersection
Paced traverse

D. Is area completely controlled by third order triangulation or traverse? no.

WR 13313

(1) Number of points or traverses per plane table sheet: 6

(2) Number of square miles per control point and approximate distribution of traverses: 1/3

V. Accuracy in location of plotted survey information

Refer to C-I-1

VI. Refer to C-I-1

VII. Date of completion: August, 1937

VIII. Date of publication: Not planned.

IX. Type of publication: Not planned.

X. No publication available.

XI. No cooperating agencies.

C-I-5 (DETAILED CONSERVATION SURVEY FARM NEAR BAYFIELD)

I. Compilation scale of survey: 1" = 660'

II. Not published.

III. Source of base maps: plane table survey

IV. Accuracy of base maps:

Refer to C-I-1

C. Method by which map compiled

1 Plane table.

Graphic intersection
Odometer traverse
Paced traverse

D. Is area completely controlled by third order triangulation or traverse? No.

1 Number of points or traverses per plane table sheet: 6

WR 13314

2 Number of square miles per control point: 1/3

V. Accuracy in location of plotted survey information.

Refer to C-I-1

VI. Refer to C-I-1

VII. Date of completion: September, 1937

VIII. Date of publication: Not planned.

IX. Type of publication; " "

X. No publication.

XI. No cooperating agencies.

C-I-6 (DETAILED CONSERVATION SURVEY IGNACIO)

I. Compilation scale of survey: 1" = 660

II. Not published.

III. Source of base maps: Plane table survey using G.L.O. corners and surveyed land lines for controls.

IV. Accuracy of base maps: Refer to C-I -1

C. Method by which map compiled

1 Plane table

Graphic intersection.
Odometer traverse
Paced traverse

D. Is area completely controlled by third order triangulation or traverse? No.

1. Number of [illegible] traverses per plane. table sheet [illegible]

2. Number of square miles per control point: 1/3

V. Accuracy in location of plotted survey information:

Refer to C-I-1

WR 13315

VI. Refer to C-I-1

VII. Date of completion: July, 1937

VIII. Date of publication: Not planned.

IX. Type of publication: " "

X. No publication:

XI. No cooperating agencies.

C-I-7 (DETAILED CONSERVATION SURVEY BONNAD AREA)

I. Compilation scale of survey: 1" = 660:

II. Not published.

III. Source of base maps: Aerial survey, G.L.O. Corners and surveyed land lines for control.

IV. Accuracy of base maps: Refer to Regional Memorandum

C. Method by which map compiled

2 Type of photograph: Aerial photographs

a Type of photograph: 10" contact.
b Scale; 2" = 1 mile, approximately
c Radial control plot used.

V. Accuracy in location of plotted survey information;

Refer to C-I-2

VI. Refer to C-I-1

VII. Date of completion: to be completed June, 1938

VIII. Date of publication: Not planned.

IX. Type of publication: " "

X. No publications

XI. No cooperating agencies.

WR 13316

CONSERVATION SURVEYS

UTAH

U-P-1 (PRELIMINARY STUDIES NAVAJO RESERVATION)

I. Compilation scale 1" = 1 mile.

II. Not applicable

III. Source of base maps: Aerial mosaics.

IV. Accuracy of base maps: Regional office.

V. Not applicable

VI. Information shown by study:

Prominent geographic features

Principal cultural features (teltphone lines, roads, trading posts, fields, etc.)

Potential arable areas

Potential spreading area

Highly generalized delineation of erosion conditions, major soil types in L.M.U. # 8, major land use classes, and slope classes.

VII. Will not be completed as preliminary studies.

VIII.

IX. Publication not planned.

X.

XI. Agencies cooperating None.

Will be completed as reconnaissance conservation surveys- not as preliminary studies.

WR 13317

CONSERVATION SURVEYS

UTAH

U-E-1 (RECONNAISSANCE CONSERVATION SURVEYS NAVAJO RESERVATION)

I. Compilation scale ; 1" = 1 mile.

II. Not applicable

III. Source of base maps: Aerial mosaic

IV. Accuracy of base maps: Regional office.

V. Not applicable.

VI. Information shown:

1. Wind and water erosion.
2. Land use.
3. Slope classes.
4. Soil type.
5. Range land soil group
6. Agricultural land soil group classification on areas of favorably situated soil areas.
7. Principal cultural and physiographic features.
8. Silt-producing and run-off producing classification.
9. Characteistics of soil types approximately as per bureau of Chemistry and Soils Standards for a reconnaissance survey.
10. Dispersion of clay fraction and evaluation of soil types, suitability for use in earth structures.
11. Location of critical areas recommended for treatment.

An area of 442, 357 acres in R.M.U. 8 will be surveyed by U.E.I, by the end of the fiscal year.

WR 13318

12. Areas worthy of detailed surveys:

For irrigation.

For water-spreading.

Amount of detail: Less than that required by detailed conservation surveys. Areas somewhat generalized (See introductory paragraph on these surveys). Alloy soils mapped in greater detail than upland soils, but rarely is an area less than one section in extent mapped.

Extent of detail: About 50 percent of all cultural land and physiographic features are mapped. The entire accessible area is covered by the survey.

VII. Completion of field work and compilation planned by end of fiscal year.

VIII. No publications planned

IX. " " "

X. " " "

XI. None.

WR 13319

CONSERVATION SURVEYS

UTAH

U-I-1 (DETAILED CONSERVATION SURVEY RED MESA AREA)

75 percent of area in this state 5580 acres surveyed.

I. Compilation scale of survey: 1" = 660'

II. Not published.

III. Source of base maps: Plane table survey

IV. Accuracy of base maps:

A. Accuracy in geographical position of any clearly identifiable plotted point, in decimal parts of an inch, measured at compilation scale.

1. Average error of position of all points .1

2 Maximum error of position of any point .4

B. Relative error in distance between any two identifiable plotted points, in decimal parts of an inch, measured at compilation scale.

1 Points 1/2" apart on map

a. Average .1
b. Maximum .2

2 Points 2" apart on map.

a. Average .1
b. Maximum .2

3 Points 10" apart on map

a. Average .1
b. Maximum .4

C. Method by which map compiled.

1 Plane table.

WR 13320

CONSERVATION SURVEYS

UTAH

U-I-1 (DETAILED CONSERVATION SURVEY RED MESA AREA)

75 percent of area in this state 5580 acres surveyed.

I. Compilation scale of survey: 1" = 660'

II. Not published.

III. Source of base maps: Plane table survey

IV. Accuracy of base maps:

A. Accuracy in geographical position of any clearly identifiable plotted point, in decimal parts of an inch, measured at compilation scale.

1. Average error of position of all points .1

2 Maximum error of position of any point .4

B. Relative error in distance between any two identifiable plotted points, in decimal parts of an inch, measured at compilation scale.

1 Points 1/2" apart on map

a. Average .1
b. Maximum .2

2 Points 2" apart on map.

a. Average .1
b. Maximum .2

3 Points 10" apart on map

a. Average .1
b. Maximum .4

C. Method by which map compiled.

1 Plane table.

WR 13320

Graphic intersection

Odometer traverse

Paced traverse

D. Area not completely controlled by third order triangular or traverse.

1. Number of points or traverses per plane table sheet: 2

2. Number of square miles per control point: 1/2

approximate distribution of traverses: Center.

V. Accuracy in location of plotted survey information.

A. Accuracy in relation to nearest plotted point on base map, in decimal parts of an inch, measured at compilation scale: .2

VI. Information shown:

A. Wind and water erosion classes, land use, slope groups, soil type, all significant cultural features (dwellings or other structures, roads, railroads, telephone lines, etc.) and all significant physiographic features (drainage, escarpments, etc.)

B. All features are shown in detail.

VII. Date of completion: 1936

VIII. Date of publication: not planned.

IX. Type of publication " "

X. Extent to which publications available and now obtainable: not published.

XI. Cooperation None.

WR 13321