

REGIONAL INSTRUCTIONS SUPPLEMENTING WASHINGTON MEMORANDUM  
"PROCEDURE FOR FURNISHING INVENTORY OF SURVEYS AND STUDIES NEEDED  
BY THE OFFICE OF LAND USE COORDINATION.

The purpose of this statement is to assist in interpreting the Washington memorandum relative to procedure for furnishing inventory of surveys and studies needed by the office of Land Use Coordination and to provide a standard procedure in the Region. It is suggested that where possible each district or project prepare, using a state U.S.G.S. map as a base, the following maps covering areas surveyed or to be surveyed during this fiscal year:

1. A map indicating areas covered to date or to be covered this fiscal year by preliminary, extensive, and intensive range surveys.

The following color scheme should be used:

Yellow for preliminary surveys.

Light green for extensive surveys.

Red for intensive surveys.

2. A map indicating areas covered to date or to be covered this fiscal year by reconnaissance or detailed conservation surveys. The following color scheme should be used:

Light green for reconnaissance.

Red for detailed surveys.

3. A map indicating areas covered to date or to be covered this fiscal year by surveys and studies necessary to the preparation of plans of conservation operations on farm or range lands, or by surveys and studies necessary to the preparation of land use plans, as on the Navajo Indian Reservation. The following color scheme should be used:

Red for surveys necessary to prepare plans of conservation operations.

Light green for surveys necessary to prepare land management plans, as on the Reservation.

WR 13206

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The following color scheme should be used:

Yellow for preliminary surveys.

Light green for extensive surveys.

Red for intensive surveys.

2. A map indicating areas covered to date or to be covered this fiscal year by reconnaissance or detailed conservation surveys. The following color scheme should be used:

Light green for reconnaissance.

Red for detailed surveys.

3. A map indicating areas covered to date or to be covered this fiscal year by surveys and studies necessary to the preparation of plans of conservation operations on farm or range lands, or by surveys and studies necessary to the preparation of land use plans, as on the Navajo Indian Reservation. The following color scheme should be used:

Red for surveys necessary to prepare plans of conservation operations.

Light green for surveys necessary to prepare land management plans, as on the Reservation.

WR 13206

4. A map indicating areas covered to date or to be covered this fiscal year by extensive or intensive human dependency surveys. The following color scheme should be used:

Light green for extensive surveys

Red for intensive surveys.

5. A map indicating areas covered to date or to be covered this fiscal year by extensive and intensive timber and wild life surveys. The following color schemes should be used:

Light green for extensive timber surveys

Red for intensive timber surveys

Yellow for extensive wild life surveys

Light brown for intensive wild life surveys

Where the surveys overlap, sky blue for extensive and dark blue for intensive surveys should be used.

It is understood that in the preparation of all of the above maps it will be necessary to estimate the areas to be covered in future surveys or studies.

The status of all surveys and studies is to indicate by cross-hatching. In general, it is not believed necessary to report publication completed on any of our surveys as requested under A on the first page of the Washington memorandum. It will be necessary to indicate the status requested under B, C, D, and E. B. should be indicated by horizontal hatching, C. by vertical hatching, D. by diagonal hatching ( upper right to lower left ) and E by diagonal hatching ( upper left to lower right).

In case of small, scattered units too small to plot accurately, it may be advisable to include these within one boundary, indicating the percentage of the area enclosed which has been surveyed or will be surveyed.

WR 13207

Mr. Semple of the Washington office has suggested that the county or counties selected by Western Range Survey, in which we have or will take a part, be indicated on the range survey map

Maps indicating areas covered by aerial surveys and watershed surveys and studies will be prepared in the regional office.

If sufficient state maps are not available, it is suggested that paper tracing overlays be made and forwarded to the regional office.

A separate set of consecutive numbers, starting with 1 (one) should be used for each intensity of surveys and each study. Each survey or study area is to be given a number, but if several small areas within a sub-project can be described as one area, there appears to be no reason for not assigning the same serial number to each small area.

A separate notebook will be prepared for each type of survey, such as range, conservation, human dependency, etc. The introductory statement should cover the desired information as it applies to the surveys of your district or project.

under IV, Accuracy of base map (if not compiled from other maps), the regional office will supply the necessary information as to the accuracy of the Aerial surveys throughout the Region. If you know of other surveys and studies in your district or project which you believe should be covered under the Washington memorandum, prepare a miscellaneous map indicating the areas covered and write a brief narrative report of each area.

While in Washington, Mr. Matthews will attempt to clarify all

WR 13208

questionable points and to secure a short extension of time.

Rugh G. Calkins  
Regional Conservator.

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PROCEDURE FOR FURNISHING INVENTORY OF SURVEYS AND STUDIES  
NEEDED BY THE OFFICE OF LAND USE COORDINATION.

In order that needed information may be furnished in a uniform manner, it is requested that the following procedure be adhered to:

Preparation of Index Map of Each Survey or study.

Please prepare a set of State maps on the U.S. Geological Survey base, scale of 1:500,000, showing accurately the location and boundaries of the areas covered by each type of survey. (The Texas map is temporarily out of print, but copies will be available by the end of September). In the case of types of surveys or studies which are entirely bounded by county lines, small State maps measuring 8" x 10 $\frac{1}{2}$ " may be used instead of U.S.G.S. 1:500,000 base maps (The proper State maps may be obtained from the Office of Land Use Coordination). Depending upon the complication of the material, all of the different types of surveys made by your Bureau may be shown on a single set of maps, with the surveys differentiated from one another by the use of colors; or a separate set of maps may be prepared for each type of survey.

In indicating each type of survey or study on the maps, the status of the survey should be shown by various types of hachures according to the following legend:

- A. Field work or collection of information, compilation and publication completed.
- B. Field work or collection of information and compilation completed, but no publication
- C. Field work or collection of information and compilation under way.
- D. Field work or collection of information under way, compilation not yet started.
- E. Proposed surveys or studies, approved by the Department and to be completed with funds now available.

WR 13209

In the event that several different types of surveys or studies are shown on a single set of maps, they should be distinguished from one another by the use of separate colors, and also by changing the direction of the hachures so that where two or more surveys overlap, the extent of the overlapping can be readily determined.

Written Description of each Survey or Study

In addition to maps showing the location and status of each survey or study, there should be furnished a written statement giving pertinent information with respect to each area surveyed or studied. For this purpose, a separate loose-leaf notebook should be prepared for each of the different types of surveys or studies involved. This notebook (cloth covered, letter size, 3-ring binder, side opening) should be subdivided by States through the use of index pages.

General Introductory Statement in Front of Each Notebook.

In front of each notebook should be a concise introductory statement discussing the general scope and purpose of the category of surveys or studies listed therein. This discussion should briefly take up each of the following items.

1. General purpose of the surveys or studies
2. Information shown by surveys or studies.
3. Standards used (accuracy, nomenclature, etc.)
4. Approximate cost per square mile of field work and compilation at various customary scales (if applicable)
5. Approximate cost per square mile of publishing maps at various customary scales by methods of reproduction customarily used (if applicable)
6. General cooperative relations with other agencies in making of surveys or studies.

SPECIFIC STATEMENT ABOUT EACH AREA SURVEYED OR STUDIED.

For each category of survey or study, the areas covered within each State should be given a serial number. A separate set of serial numbers should be used for each type of survey or study and each State. Each survey or study area shown on the map should have lettered thereon in the same color, its serial number. This number, in turn should be duplicated in the loose-leaf notebook under the proper State heading. Under the duplicate number in the note book should be shown the following information.

- I. Compilation scale of survey or study (if in map form)  
1" = 1 mile.
- II. Published scale of survey or study (if in map form)

WR 13210

III. Source of base map - Aerial

IV. Accuracy of base map (if not compiled from other maps) Regional office.

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) Maximum error of position of any point

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
- b Maximum

2. Points  $2''$  apart on map

- a Average
- b Maximum

3. Points  $10''$  apart on map

- a Average
- b Maximum

C. Method by which map compiled.

1. Plane table

- a Graphic intersection
- b Chained traverse
- c Odometer traverse
- d Faced traverse

2. Aerial photographs

- a Type of photograph (size, focal length, no. lenses)
- b Scale
- c Radial control plot used
- d Other methods used

WR 13211

D. Is area completely controlled by third order triangulation or traverse?

1. Number of points or traverses per plane table sheet.
2. Number of square miles per control point and 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.

VI. Information shown by survey or study, extent and amount of detail

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

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

IX. Type of publication.

X. Extent to which publications available and how obtained.

XI. Agencies cooperating on survey and approximated percentage division of cost as between cooperative agencies.

In submitting the material requested in this memorandum the information shown on the maps should be accurately and carefully drawn insofar as the exact location of the boundaries of survey areas is concerned. On 1:500,000 scale maps, lettering, coloring and hatching, need be done only with sufficient care to make the maps readable because it will probably be necessary to revise these maps, and carefully redraft the information on cloth-mounted, folded maps to be kept in books, after the office of land use coordination has had an opportunity to analyze the information submitted by the various bureaus.

WR 13212