INDEX TO MAPS OF FLOOD-PRONE AREAS IN INIIIANA
PREPARED BY THE U.S. GEOLOGICAL SURVEY

By William G. Weist, Jr.
U.S. GEOLOGICAL SURVEY

Water-Resources Investigations 48-74

UNITED STATES DEPARTMENT OF THE INTERIOR<br>Rogers C. B. Morton, Secretary<br>GEOLOGICAL SURVEY<br>V. E. McKelvey, Director

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For additional information write to:
District Chief
U.S. Geological Survey, WRD
1819 N. Meridian Street
Indianapolis, Indiana 46202
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# Index to Maps of Flood-Prone Areas in Indiana <br> Prepared by the Geological Survey 

by William G. Weist, Jr.

## ABSTRACT

A listing of flood maps for Indiana prepared by the U.S. Geological Survey through 1974 is presented by county. The list provides information on the type of flooding depicted and the reliability of the delineation.

The list was prepared from a computer file, and an available program allows retrieval of data by land-line location, State and county, and Standard Metropolitan Statistical Area (SMSA). The file will be continuously updated.

The U.S. Geological Survey has been preparing maps of flood-prone areas in Indiana since 1968. As of July 1974, 487 maps had been prepared. This report provides an index to these maps and a description of how maps may be obtained.

The computer file from which the map index was prepared contains three types of data for each map: location, type of information shown on the map, and the reliability of this information.

Map location is given by: county, name of standard mapping quadrangle in which flood area lies, and latitude-longitude of the southeast corner of the quadrangle. If the map covers part of several counties, the map information is listed for each county. The index does not identify Standard Metropolitan Statistical Areas, which also may be retrieved from the computer file. Names of flooded streams are not included in the file.

Flood maps present information on the areal extent of inundation by one or more selected floods. The index shows whether the inundated area of the map represents an experienced event of special significance or a theoretical flood having some design importance, such as the 100-year flood.

Reliability of flood boundary delineation varies between maps, depending on availability of data and on the analytical effort in map preparation. Some maps are prepared from data obtained within the flood area, from detailed field surveys, and from complex hydrologic and hydraulic analyses; these maps have the highest degree of reliability. Other maps are prepared quickly from readily available data but without detailed field information; only a reconnaissance level of reliability is provided in these maps. The degree of reliability for each map is indicated in the index.

The Indiana district office has also prepared descriptive pamphlets showing flood-prone areas in the following cities:

| Alexandria | Greenwood <br> Attica <br> Auburn <br> Aurora <br> Cambridge City |
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| Clinton | Hammond and Munster |
| Connersville | Highland, Hammond, and <br> Griffith <br> Corydon |
| Decatur | Madison |
| Franklin | Nashville |
| Fredericksburg | Noblesville |
| Gary | North Manchester |
| Gary and Gary East | Plymouth |
| Gary and Griffith | Portland |
| Greenfield | Salem |
| Greenwood | Spencer |

Inquiries about most of the flood maps and the pamphlets may be made to:

District Chief
U.S. Geological Survey

1819 N. Meridian Street
Indianapolis, Indiana 46202

Some of the maps along the State boundaries were prepared by adjacent districts. Inquiries about maps covering these quadrangles:

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Beecher East Dyer
Bismark Humrick
Calumet City Illiana Heights
Carmi Lake Calumet
Danville NE Mount Carmel
Danville SE
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should be addressed to:
District Chief
U.S. Geological Survey
P. O. Box 1026

Champaign, Illinois 61820
For maps covering:

| Butler East | Fort Recovery |
| :--- | :--- |
| College Corner | Reily |
| Fairhaven | Whitewater |

write to:

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District Chief
U.S. Geological Survey
9 7 5 \text { West Third Avenue}
Columbus, Ohio 43212
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And for maps covering:

| Bethlehem | Owensboro East |
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| Carrollton | Owensboro West |
| Cloverport | Reed |
| Henderson | Rock Haven |
| Hooven | Uniontown |
| Fort Knox | Vevay South |
| LaGrange | Wabash Island |
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write to:

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District Chief
U.S. Geological Survey
Room 572, Federal Building
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Louisville, Kentucky 40202
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The land-line location of a mapped flood area is referred to the standard Geological Survey quadrangle (nominally $7-1 / 2$ or $15-m i n u t e ~ q u a d) ~ i n ~$ which this area lies. The land-line identification includes the mapping scale and latitude and longitude of the southeast corner of the quadrangle, as well as the quadrangle name. If the flood area lies in part of several quadrangles, the name, latitude-longitude, and scale of each quadrangle is listed in the computer file and in the index.

The type of flood information available within the quadrangle area is described either by: the year in which the mapped area was flooded, 1937, for instance, or the frequency at which the delineated area is expected to be flooded, expressed as a recurrence interval in years (100-year, for example).

The reliability of each flood map is given as (1) RECON (reconnaissance), meaning area of inundation was approximately delineated without field surveys and (or) detailed hydraulic and hydrologic analyses; (2) STANDARD, meaning delineation of flood area was based on field surveys and detailed hydraulic and hydrologic analyses; or (3) HIGH, meaning flood area defined by detailed surveys and analyses supported by observed flood information within or immediately adjacent to reach.

If more than one flood map is available for a quadrangle, then the type of information and reliability of each map is shown in the index. If more than one flood area was shown in a map sheet (two historic floods, for instance) the type of information and reliability for each area may or may not be listed in the index: if the areas were non-contiguous and for different events all type and reliability information are listed; if the areas superpose over virtually the same reach then only type and reliability for the maximum event are listed.

A computer program, developed by T. A. Wilson, U.S. Geological Survey, provides options for printing indices listing all flood maps available for a State, county, or SMSA; the list may be optionally limited to information pertaining to $7-1 / 2$ or 15 -minute quadrangles, as well. Another option will list the flood-map information available for a particular quadrangle.

Inquiries about use of the retrieval system should be directed to Chief Hydrologist, U.S. Geological Survey, National Center, Reston, Va. 22092.

Computer programs have been provided to enter information into the file as new maps beccme available.




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