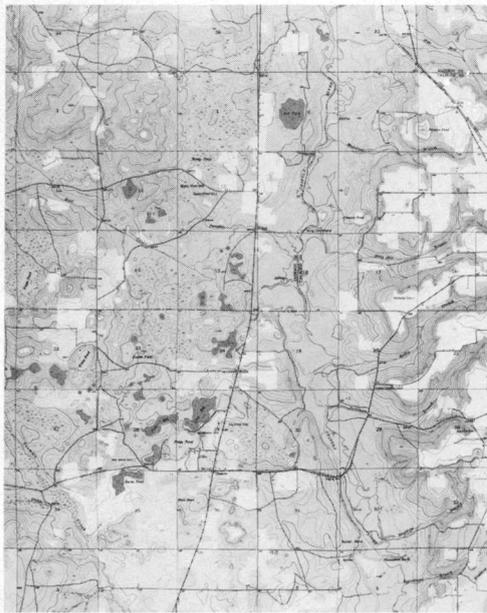


How To Order Maps on Microfilm

U.S. Department of the Interior
Geological Survey
National Cartographic
Information Center (NCIC)

Map on microfilm



The files of the U.S. Geological Survey contain copies of virtually all the topographic maps of the United States published by the Survey in standard series since 1884. To ensure the preservation of this information and to make its wide distribution more practicable, the collection has been copied on 35-mm microfilm. Copies of these microfilm rolls are now available to the public.

Organization

The collection comprises over 120,000 maps, including some 15-minute quadrangle maps compiled by the U.S. Army Corps of Engineers, National Parks and Monument maps, River Survey maps, and selected Federal Highway Administration county planning maps. The collection will continue to grow as other types of maps are added.

The rolls of USGS microfilm are divided chronologically into three subsets:

- Maps published from about 1884 through December 1972—"A" series
- Maps published from January 1973 through September 1977—"B" series
- Maps published from October 1977 through September 1979—"C" series

Additional update subsets will be prepared annually and designated as "D," "E," etc. series.

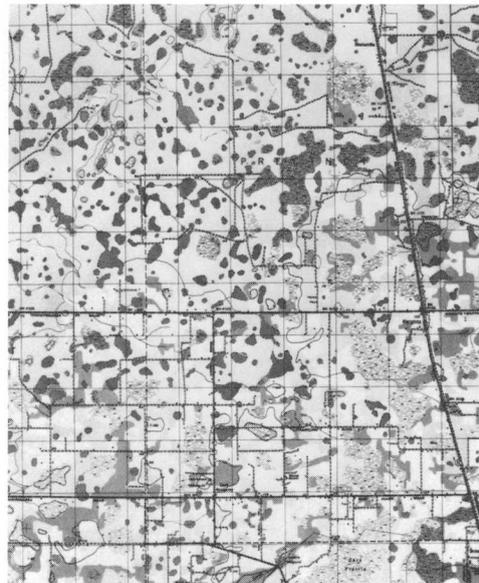
Within each subset in the A and B series, the rolls are organized by State with no more than one State per roll. In the C series it may take more than one roll to cover a State. The maps of each State are filed alphabetically by quadrangle name (or, for the Federal Highway Administration maps, by county name). More than one map may appear in a single frame, depending on the size of the original map.

Each map copy retains the publication and legend information of the original. In addition, each map image contains an identifying strip that notes the State or States covered; an acronym indicating the Federal agency that produced the original map; and a roll-frame identification number.

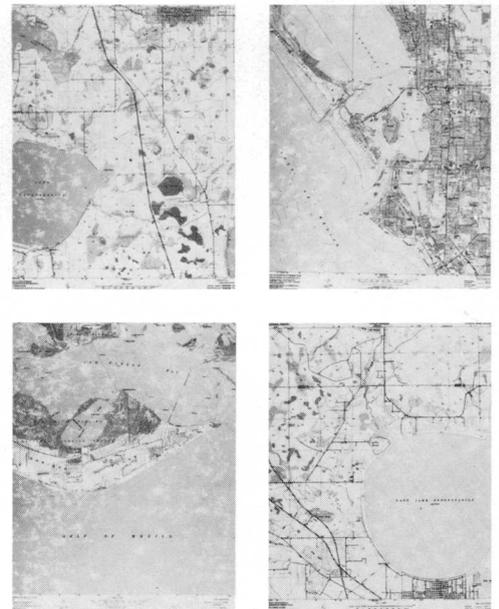
Film Specifications

The original film used to photograph the maps is a medium-contrast, panchromatic, unsprocketed 35-mm microfilm with a fine-grained antihalation undercoat. The emulsion is silver halide. There are roughly 500 frames to each 100-foot roll.

Most of the maps are filmed at a reduction factor of 20×; however, some of the large-size and small-size maps are filmed at other reduction ratios. The images of maps so treated bear a note of the reduction factor employed.



Maps on microfilm



Products Available

Paper copies of the index to the microfilm rolls, sorted alphabetically by State, are available.

Black-and-white paper prints of individual frames may be ordered. These "blowback" reproductions are nearly true scale and of reasonable legibility, but they are subject to fading.

Microfilm roll copies of the file rolls may also be ordered. The film types in which they are available, and the relative merits of each are summarized below.

Film Attribute	Silver		Diazo
	positive	negative	negative
Copy Generation	second	second	third
Resolution	no significant loss		slight loss
Print Quality	(none available)	excellent	fair
Resistance to Wear	—scratches easily—		durable
Life Expectancy	—excellent—		good
Storage Required	temperature and humidity controls recommended		dark
Cost	\$20	\$20	\$10

A Word of Caution

Most microfilm reader-printers employ an electrostatic copying process, which yields good results with black-and-white linework materials. The map images in this collection will not reproduce well unless a continuous-tone (photographic) copying process is used. Many of the original maps contain large tinted areas; these tend to be printed in shades of gray by electrostatic printers, and other information within the shaded area may be hidden.

Ordering Information

You can order maps on roll microfilm directly from the National Cartographic Information Center headquarters. Please allow several weeks for delivery.

Fill out the order form below and send it to the U.S. Geological Survey. Prepayment is required with a check or money order payable to the Geological Survey.

Sample packets of microfilm are available for your inspection without charge.

Roll Microfilm Order Form

Name: _____

Address _____

Telephone (res): _____

(day): _____

Company: _____

Type of map (USGS quadrangle, Corps of Engineers, National Park Service, River Survey, Federal Highway Administration): _____

State(s): _____

Series (A, B, or C): _____

Emulsion (silver positive, \$20; silver negative, \$20; diazo negative, \$10): _____

Amount of Payment Included: _____

Mail to:
 National Cartographic Information Center
 U.S. Geological Survey
 507 National Center
 Reston, Virginia 22092
 Telephone: 703/860-6045