

Indiana University



1970

An Atlas of INDIANA

Robert C. Kingsbury

GEOGRAPHY
AND MAP
LIBRARY
INDIANA
UNIVERSITY

Dept. of Geography
Indiana University

An Atlas of

INDIANA

by

Robert C. Kingsbury

WITH CONTRIBUTIONS FROM:

John M. Hollingsworth

William Ciz

Joyce Fox

Phani Deka

Dan Graef

Dan Duill

James Sanford

Philip Terman

and others

Copyright 1970 by Robert C. Kingsbury

All rights reserved

Printed in the United States of America

Library of Congress Card Number 74-653653

OCCASIONAL PUBLICATION NO. 5

Department of Geography

Indiana University

Bloomington, Indiana

Price: \$2.00

All orders for this publication should be addressed to:

**Secretary,
Department of Geography
Kirkwood Hall
Indiana University
Bloomington, Indiana 47401**

**Prepayment required for personal orders. Make check or money order
payable to: Indiana University Foundation, Geographical Monograph Series**

FOREWORD

This small thematic atlas of the state of Indiana is offered by the Department of Geography as a contribution to the University's Sesquicentennial celebration of 1970. It attempts to present a broad coverage of both natural conditions and human activities on a state-wide basis.

Some 109 maps are presented in this atlas. While the majority are original maps which have not been published before, some of the maps have been printed previously. Included are some revised adaptations of maps which appeared originally in An Atlas of Southern Indiana, Occasional Publication No. 3, Department of Geography, Indiana University, 1966. (This atlas is now out-of-print.) A few others are copies of existing maps prepared by Bureau of the Census, Department of Commerce (U.S.), Geological Survey, Department of Interior (U.S.), and Geological Survey, Department of Natural Resources (Indiana). Complete explanation will be found under "About the Cartography" on pages 86-87, and a listing of major statistical and cartographic sources for all maps starts on page 88.

A small atlas of this type necessarily includes only a small selected group of maps. Obviously, a large number of other maps could have been included or could have been substituted for those included here. The final map selection was based upon presenting subjects of the greatest potential interest to the widest possible audience. Only the user can say whether or not a wise selection of maps has been made.

A relatively unique feature of this atlas is the inclusion of computer-generated cartography. A few maps were compiled by computer and then hand drafted, but most of the computer maps are presented just as produced by the printer. I am indebted to the personnel of the Research Computing Center, Indiana University, and to Professor Jerome Clemens of the Department of Geography for their considerable assistance in this computer cartography. Further explanation on these computer maps is included also under "About the Cartography".

Appreciation must be expressed to numerous other people for helping with the compilation of this atlas. Special thanks are due John M. Hollingsworth, Staff Cartographer, Department of Geography, who drafted the maps on pages 76-79, originally devised the computer maps on pages 24-27, and provided other valuable assistance in the production of this atlas. Phani Deka, a graduate student in geography, aided by preparing some of the map type. Several students in cartography courses prepared maps for this atlas. These contributors and the page numbers on which their maps appear:

William P. Ciz -- 80, 81, 82
Dan Dull -- 65 (sweet corn)
Joyce Fox -- 70, 71, 72 (distribution maps only)
Dan Graef -- 65 (popcorn), 69 (tobacco)
James F. Sanford -- 7, 13, 18, 20, 21, 29, 41
Philip R. Terman -- 12, 16, 17, 22, 23, 30, 31

If this atlas proves of use, we would like to compile a revised edition once the statistical materials of the 1970 Census of Population become available. At that time, we want to correct any errors on the existing maps. Thus, all information on corrections needed as well as suggestions for map additions or deletions are solicited from users of this atlas.

Robert C. Kingsbury
Associate Professor of Geography

CONTENTS

	<u>page number</u>
1. The State	
Indian Treaties	7
Counties, 1816	8
Counties and Evolution of County Seats	9
Counties and Townships	10
Higher Education	11
2. The Physical Landscape	
Generalized Topography	12
Soils	13
Physiographic Regions	14
Physiographic Diagram	15
Glacial Geology	16
Bedrock Geology	17
Drainage	18
Water Resources: Major Reservoirs	
River Discharge	
Average Annual Runoff	
Ground Water	19
Natural Vegetation	20
Employees in Mineral Industries, 1963	21
Mineral Resources (Sand and Gravel, Crushed Stone, others)	22
Mineral Resources: Coal	
Oil and Gas	
Dimension Limestone	23
Average Annual Temperature	24
Average January Temperature	25
Average July Temperature	25
Average Annual Precipitation	26
Average January Precipitation	27
Average July Precipitation	27
Average Annual Snowfall	28
Length of the Growing Season	28
3. Population Characteristics	
Settlements with a Population of 1,000--25,000, 1960	29
Population Distribution, 1860	30
Population Distribution, 1960	31
Population Density, 1960: Version #1	
Version #2	32
Population Density, 1960: Version #3	33
Population Change, 1860-1960	34
Population Change: 1950-1960	
1960-1966	35

Rural Farm Population, 1960	36
Rural Non-Farm Population, 1960	36
Urban Population, 1960	37
Non-White Population, 1960	37
16 and 17 Year Olds in School, 1960	38
Population with a High School Education, 1960	38
Personal Income, 1959	39
Family Income, 1959	40

4. Cities, Trade, & Industries

Major Urban Areas, 1960	41
Foreign Country and Region Names Used for Indiana Cities and Towns	42
Urban Population Change, 1910-1960	43
All Businesses, 1967	44
Service Trades, 1967	45
Wholesale Trade: Employees, 1967 Sales, 1963	46
Retail Trade: Employees, 1967 Sales, 1963	47
Manufacturing Industries, 1967	48
Value Added by Manufacturing, 1963	49
Food Industries, 1967	50
Lumber, Furniture, and Other Wood Products Industries, 1967	51
Stone, Clay, and Glass Industries, 1967	52
Rubber and Plastic Products Industries, 1967	53
Primary Metal Industries, 1967	54
Fabricated Metal Products Industries, 1967	55
Electrical Machinery Industries, 1967	56
Non-Electrical Machinery Industries, 1967	57
Chemical Industries, 1967	58
Transportation Equipment Industries, 1967	59

5. Farming & Agricultural Products

Types of Farming	60
Land in Farms, 1964	60
Average Size of Farms, 1964	61
Farm Land Values, 1964	61
All Cropland, 1964	62
Harvested Cropland, 1964	62
Pastured Cropland, 1964	63
Field Tractors, 1964	63
Corn: As a Percent of all Cropland, 1964 Acreage, 1964	64
Sweet Corn Acreage, 1964	65
Popcorn Acreage, 1964	65

Wheat: As a Percent of all Cropland, 1964

Acreage, 1964	66
Soybeans: As a Percent of all Cropland, 1964 Acreage, 1964	67
Oats: As a Percent of all Cropland, 1964 Acreage, 1964	68

Tree Fruits, Nuts, and Grapes Acreage, 1964	69
Vegetable Acreage, 1964	69
Tobacco Acreage, 1964	69
Hogs and Pigs: Number per 1,000 Acres of Cropland, 1964 Distribution, 1964	70
Cattle and Calves: Number per 1,000 Acres of Cropland, 1964 Distribution, 1964	71
Sheep and Lambs: Number per 1,000 Acres of Cropland, 1964 Distribution, 1964	72
Value of All Agricultural Products Sold, 1964	73

6. Transportation & Recreation

Early Routes of Transportation	74
Railroads, Passenger Traffic Flow: 1869 1969	75
Railroads, 1880	76
Railroads, 1969	77
Electric Interurban Railroads	78
Other Proposed Electric Interurban Railroads, 1890-1915	79
Interstate Highway Routes, 1969	80
State and National Highways, 1969	81
Scheduled Airline Flights, 1969	82
State Parks and Other Recreational and Cultural Attractions	83
State Forests	84
The Lincoln Hills	84
Hoosier National Forest	85
ABOUT THE CARTOGRAPHY	86
MAJOR MAP AND STATISTICAL DATA SOURCES	88

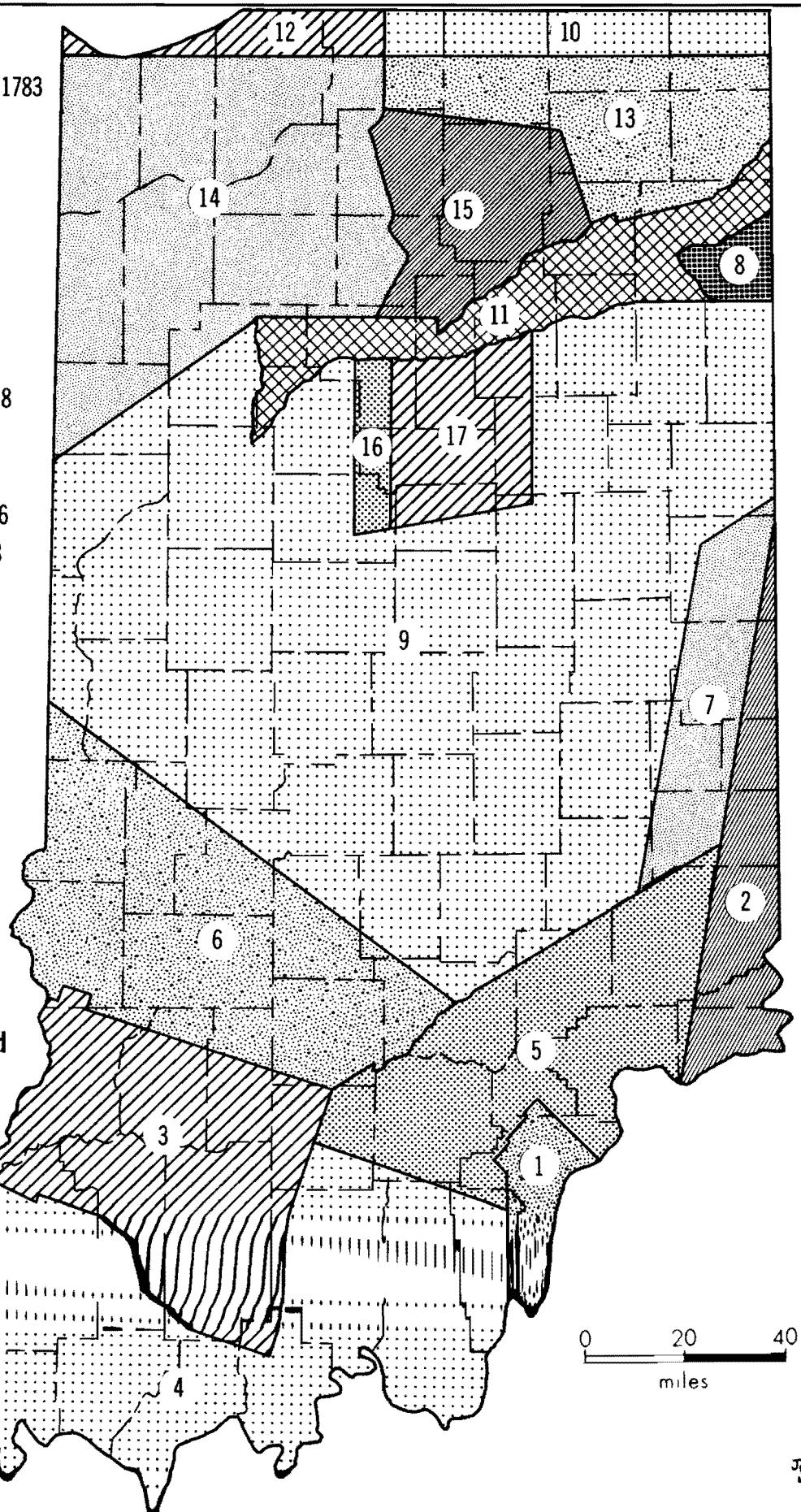
I. THE STATE

1. G. R. Clark's Grant, 1783
2. Greenville, 1795
3. Fort Wayne, 1803
4. Vincennes, 1804
5. Grouseland, 1805
6. Fort Wayne, 1809
7. Fort Wayne, 1809
8. Maumee, 1817
9. New Purchase, 1818
10. Chicago, 1821
11. Mississinewa, 1826
12. Mississinewa, 1826
13. Carey Mission, 1828
14. Tippecanoe, 1832
15. Tippecanoe, 1832
16. Wabash, 1834
17. Wabash, 1840

INDIAN TREATIES

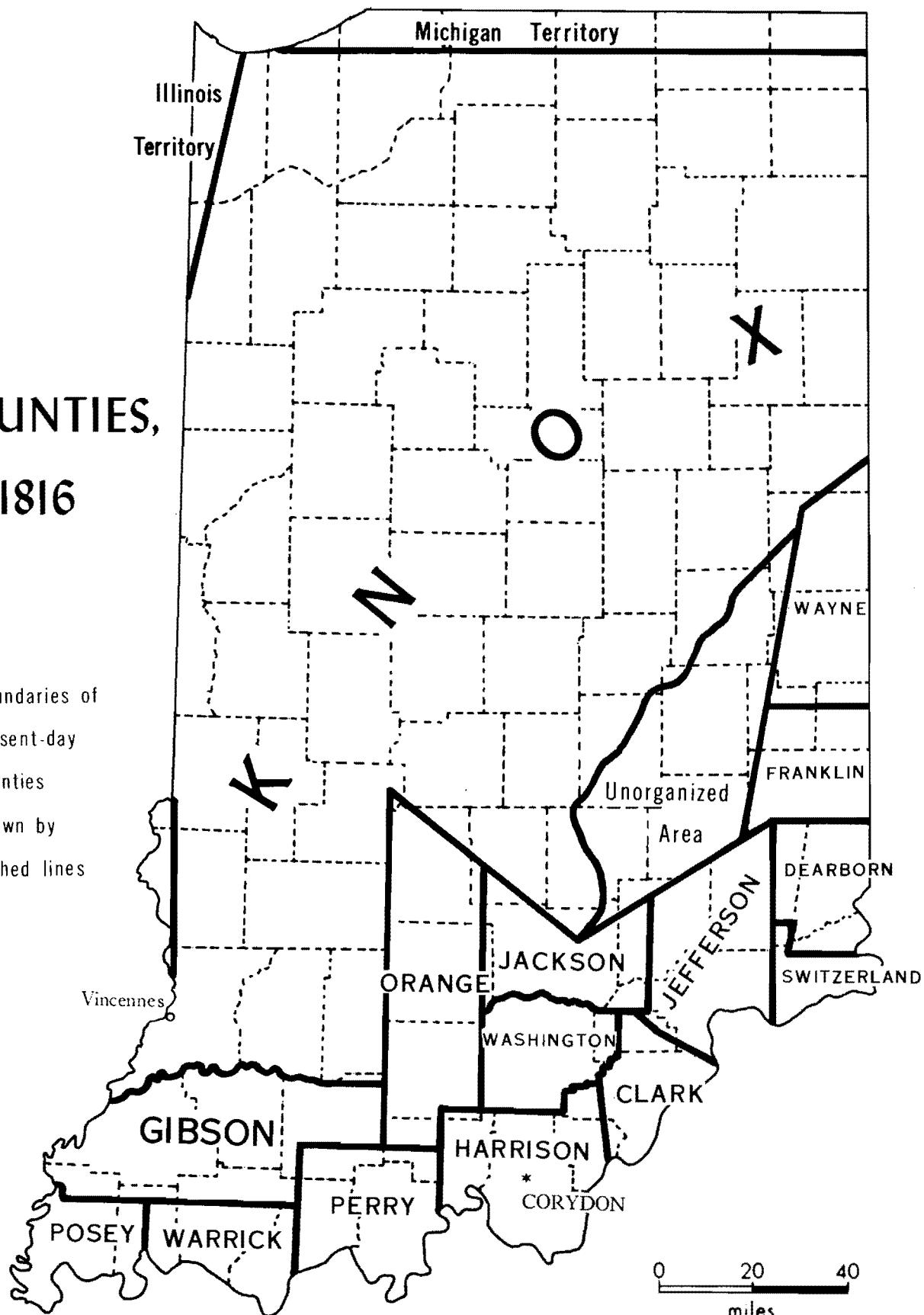
Which Opened Land
To Settlers

Boundaries of
present-day
counties
shown by
dashed lines



COUNTIES, 1816

Boundaries of
present-day
counties
shown by
dashed lines



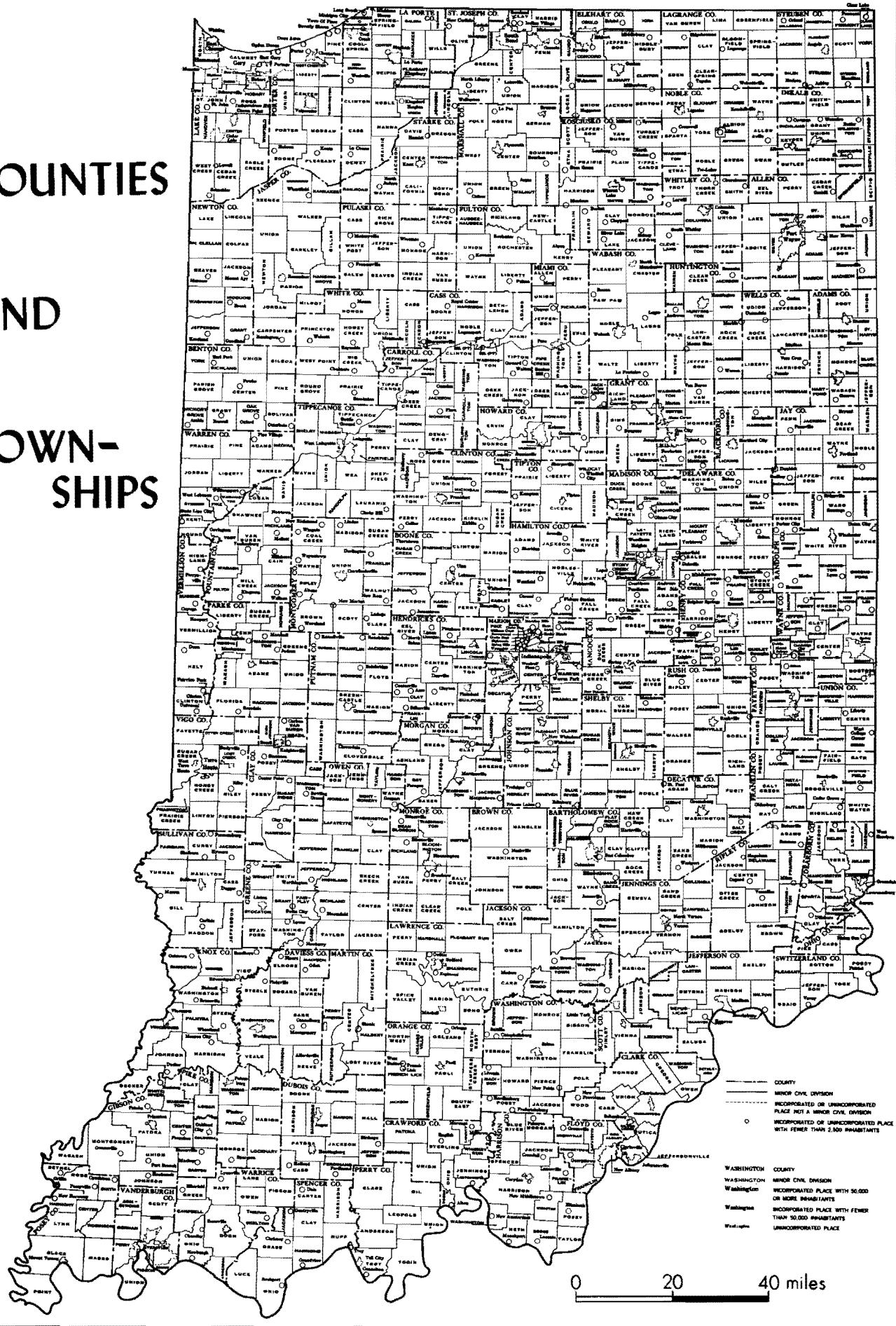
0 20 40 miles

RK

COUNTIES

AND

TOWN- SHIPS



**COUNTIES
AND
COUNTY
SEATS
Establishment
Dates and
County
Seat
Changes**

COUNTY SEATS:

- Current
- Previous

1839 Year of establishment

Year of establishment of first county seat coincides with year that organization of county became effective. EXCEPTIONS:

Benton County, 1840
Blackford County, 1839
Clark County, 1801
Lake County, 1837

ORIGINAL TOWN NAME
(when designated county seat)

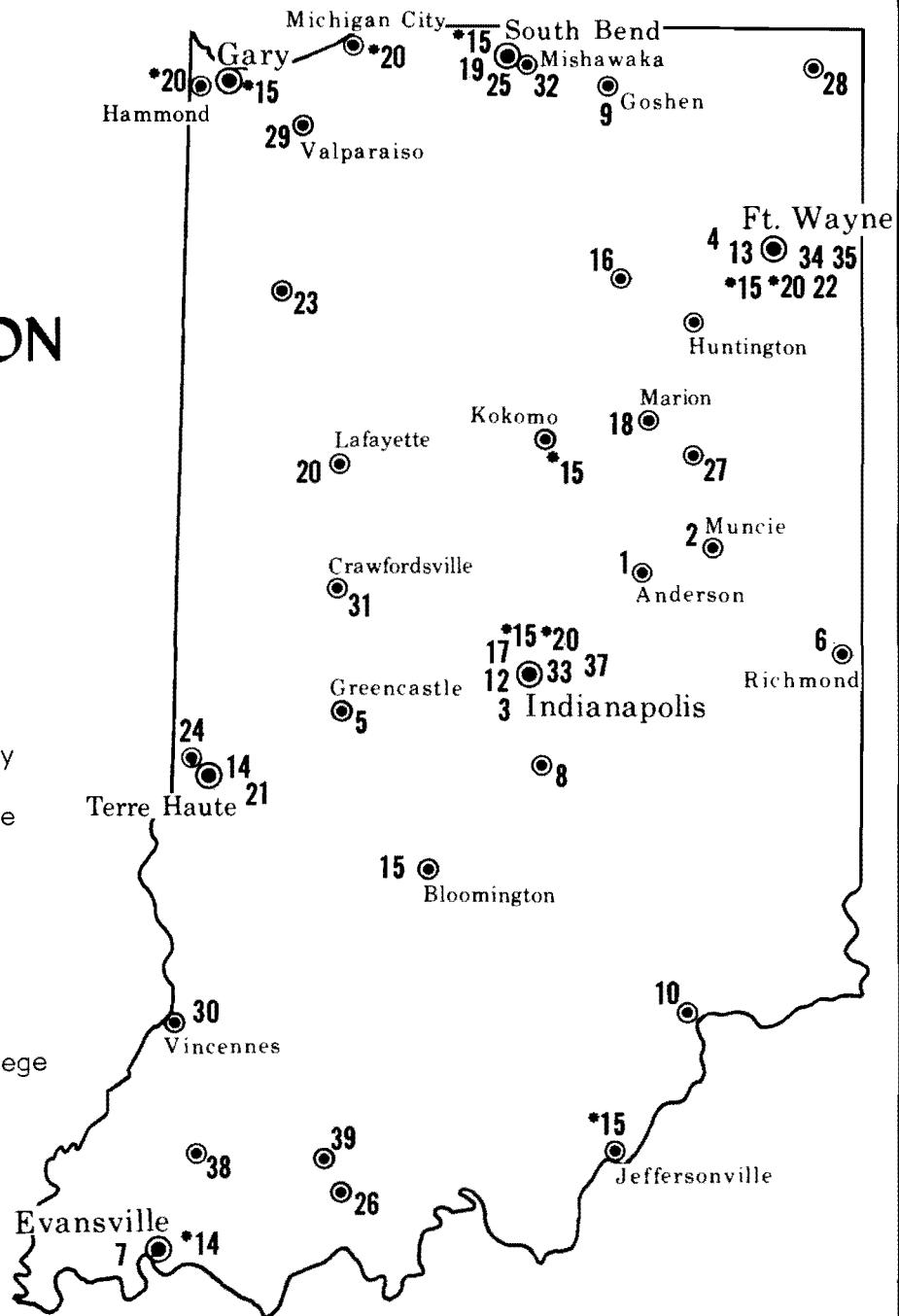
- (1) Jacksonburg
- (2) Carrollton
- (3) Liverpool
- (4) Munseytown
- (5) Lake Co. Court Hse.
- (6) Andersontown
- (7) Memphis
- (8) Portersville
- (9) Tiptontown
- (10) Salisbury
- (11) Columbia
- (12) Lima



HIGHER EDUCATION

INSTITUTIONS ACCREDITED
BY THE NORTH CENTRAL
ASSOCIATION:

- 1 Anderson College
- 2 Ball State University
- 3 Butler University
- 4 Concordia Sr. College
- 5 DePauw University
- 6 Earlham College
- 7 Evansville, Univ. of
- 8 Franklin College
- 9 Goshen College
- 10 Hanover College
- 11 Huntington College
- 12 Indiana Central College
- 13 Indiana Inst. of Technology
- 14 Indiana State Univ.
- 15 Indiana University
- 16 Manchester College
- 17 Marian College
- 18 Marion College
- 19 Notre Dame, Univ. of
- 20 Purdue University
- 21 Rose Poly. Inst.
- 22 St. Francis College
- 23 St. Joseph's College
- 24 St. Mary-of-the-Woods College
- 25 St. Mary's College
- 26 St. Meinrad Seminary
- 27 Taylor University
- 28 Tri-State College
- 29 Valparaiso Univ.
- 30 Vincennes Univ.
(junior college)
- 31 Wabash College

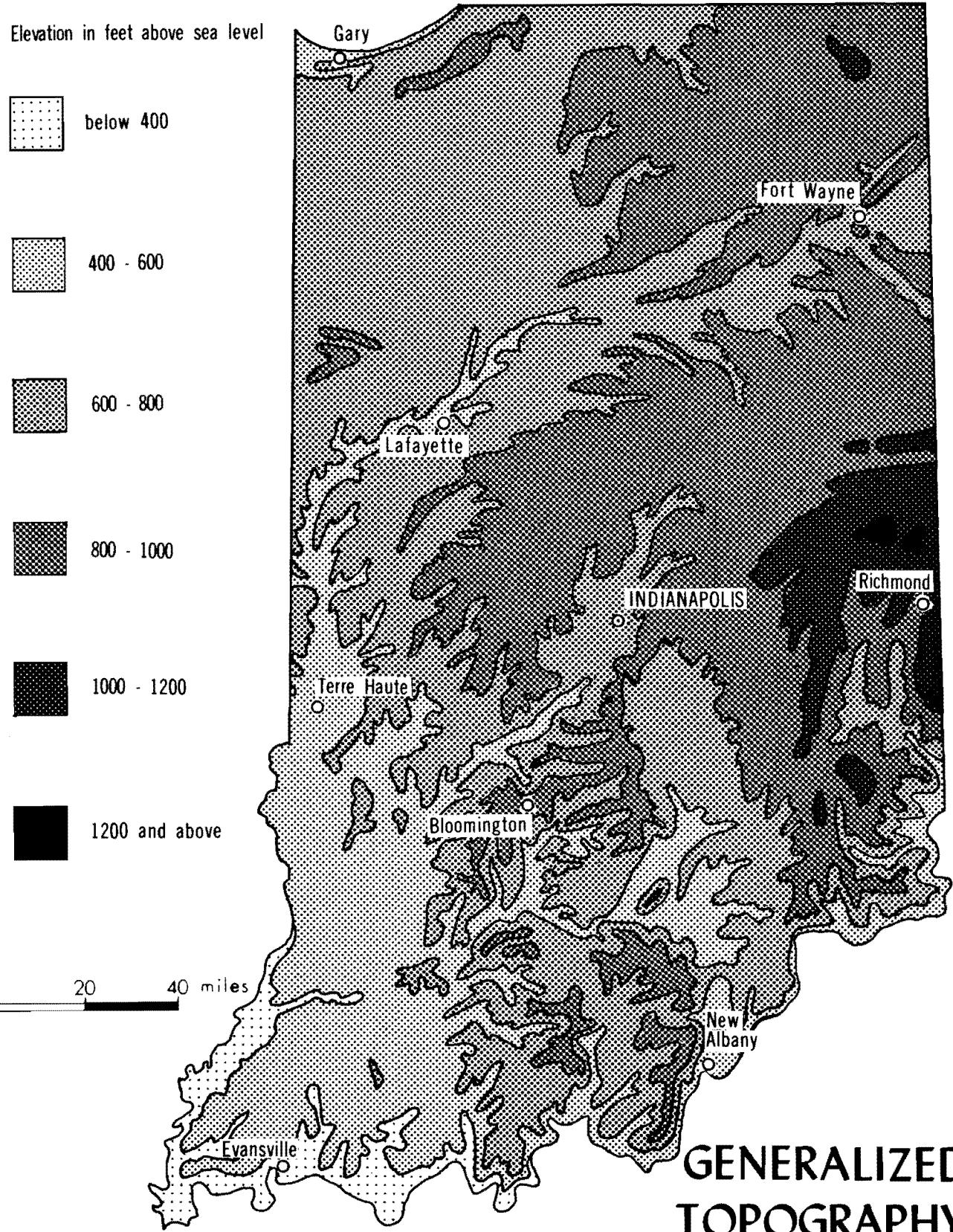


* REGIONAL CAMPUS

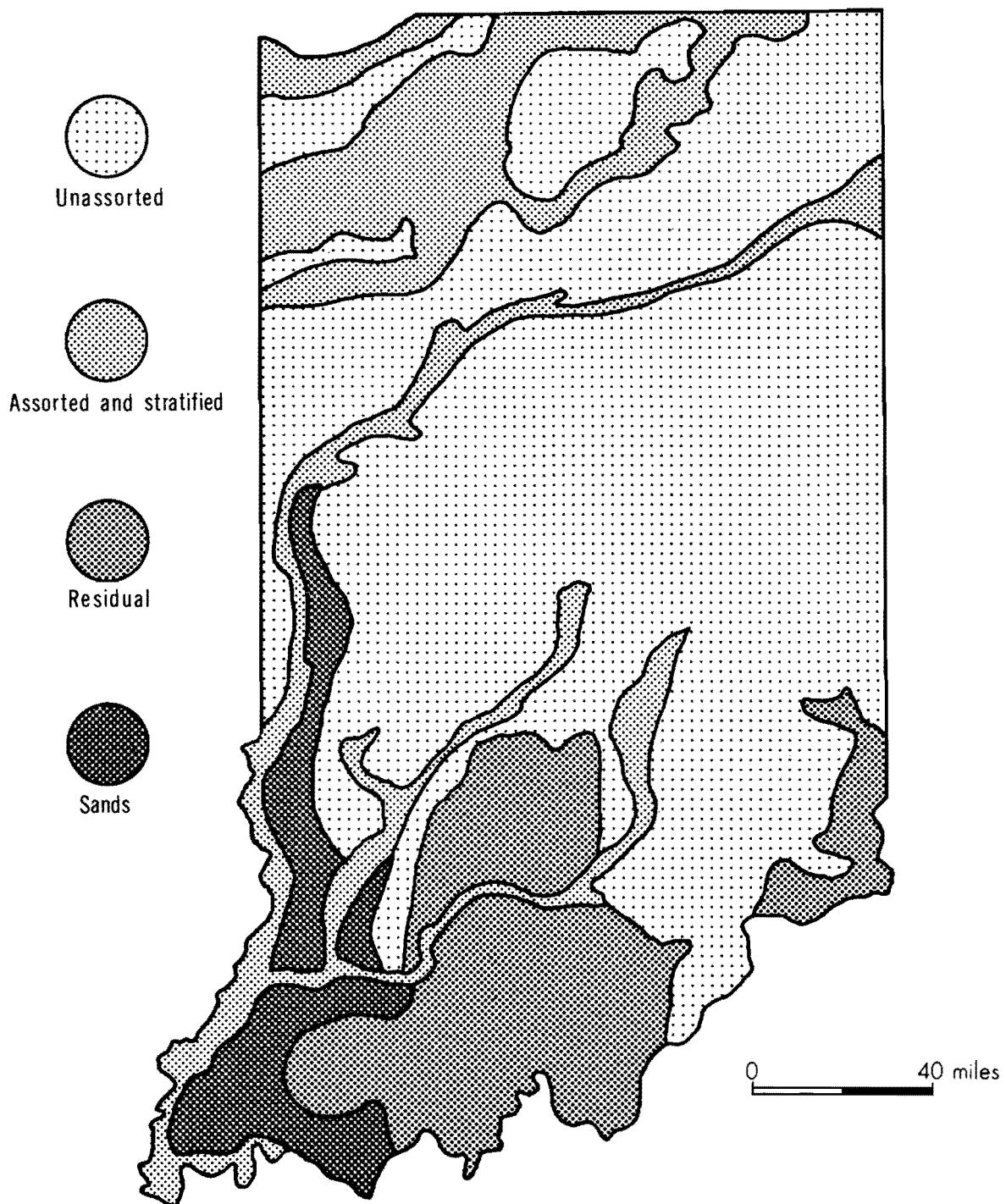
OTHER INSTITUTIONS:

- 32 Bethel College
- 33 Christian Theol. Seminary
- 34 Ft. Wayne Art Inst.
- 35 Ft. Wayne Bible College
- 36 Grace College
- 37 Herron School of Art
- 38 Oakland City College
- 39 St. Benedict College

2. THE PHYSICAL LANDSCAPE

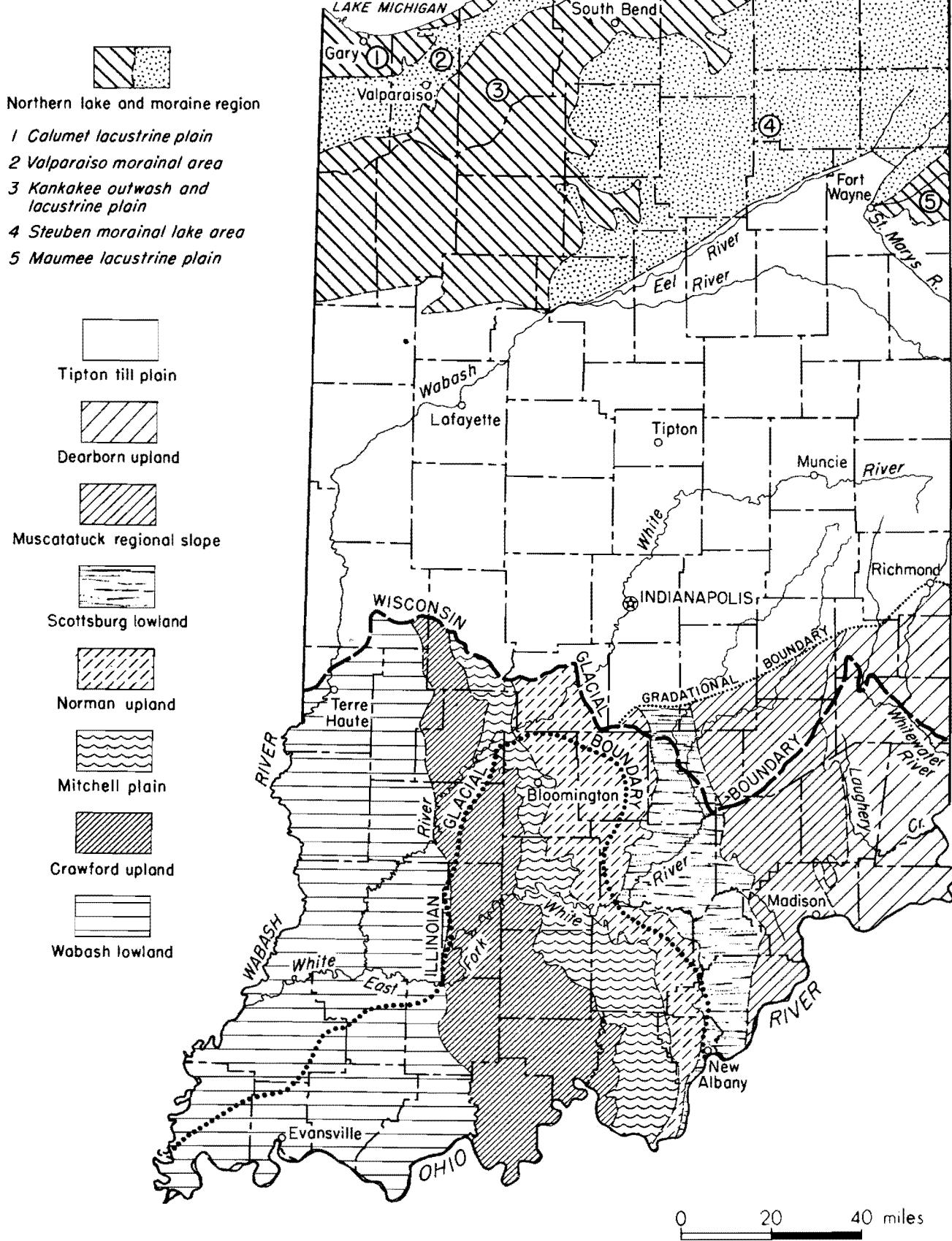


SOILS



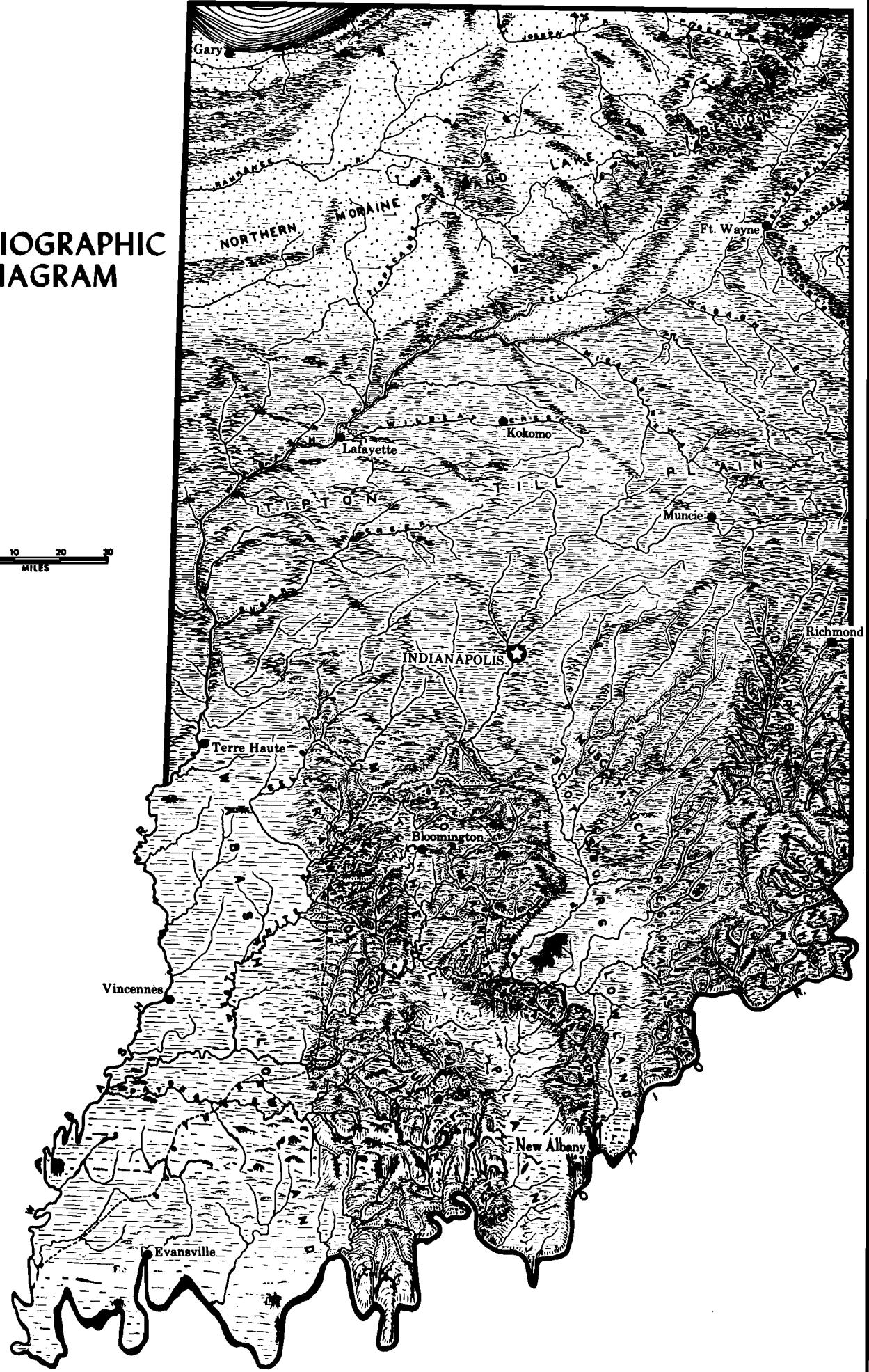
There are further subdivisions where soils have darker colored topsoils due to their natural vegetation and other subdivisions due to materials varying from very fine to very coarse in texture and also varying in respect to the dominant kinds of rocks of which they are composed.

PHYSIOGRAPHIC REGIONS

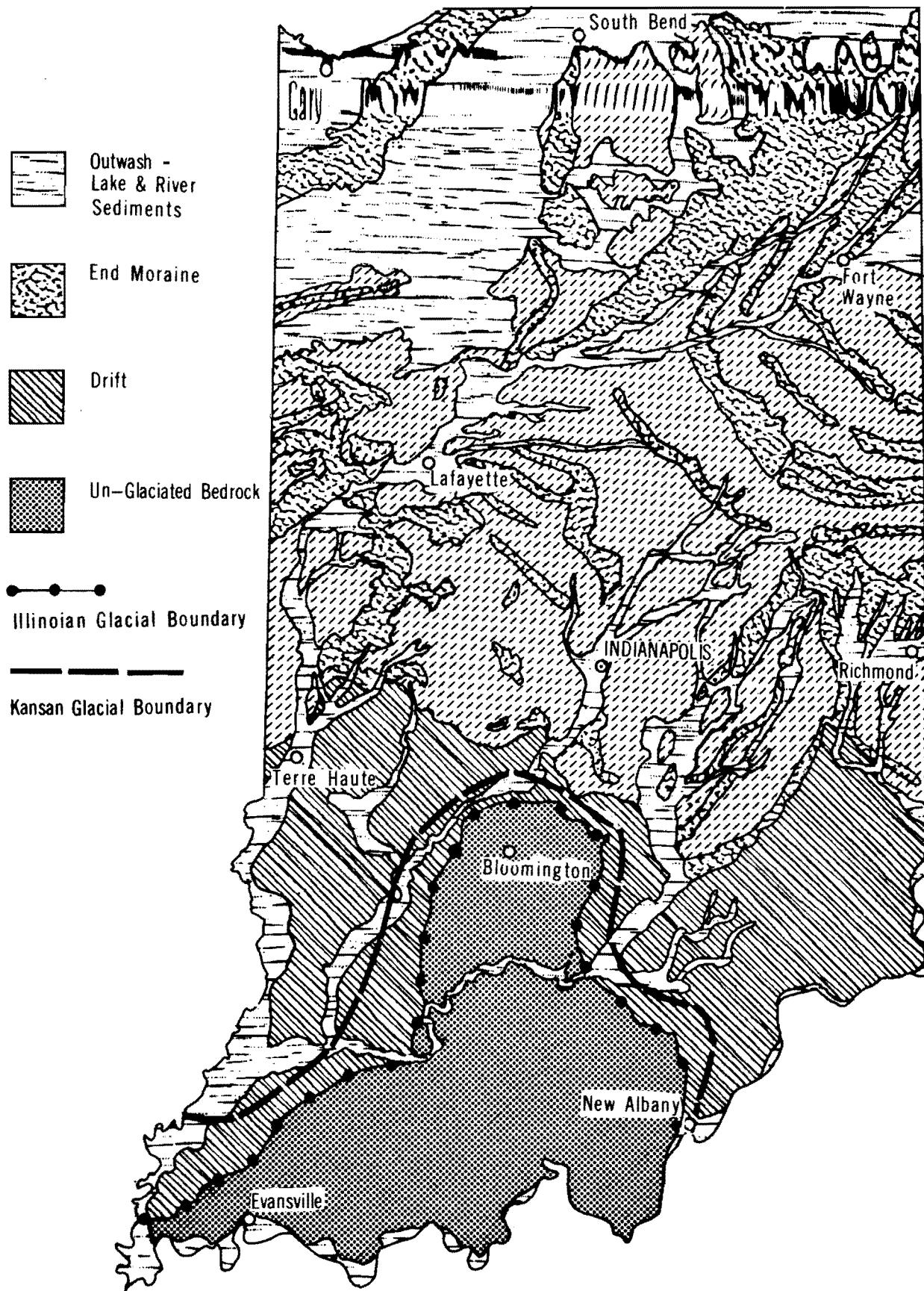


PHYSIOGRAPHIC DIAGRAM

0 10 20 30
MILES

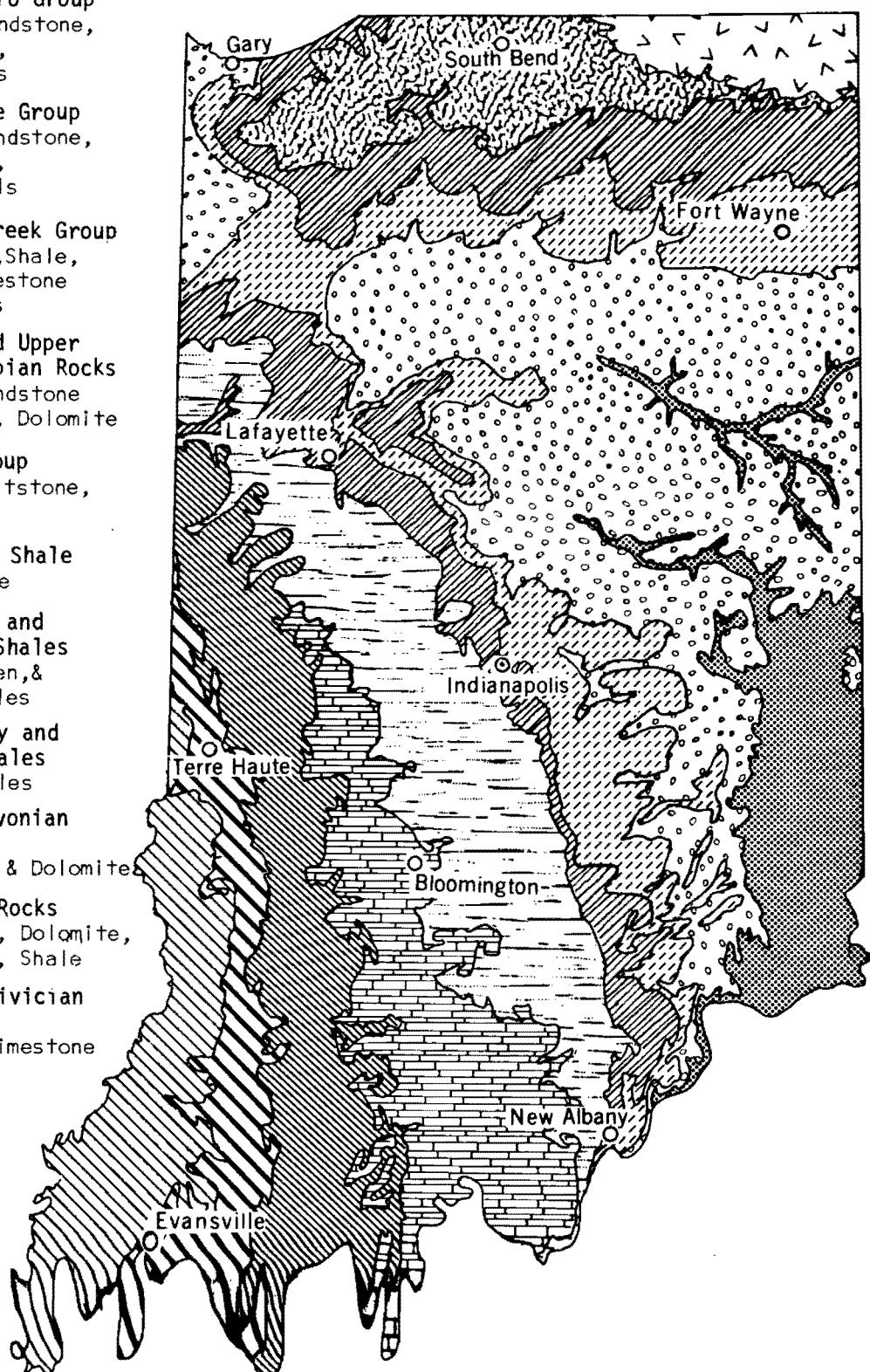


GLACIAL GEOLOGY



BEDROCK GEOLOGY

	McLeansboro Group
	Shale, Sandstone, Limestone, Thin Coals
	Carbondale Group
	Shale, Sandstone, Limestone, Thick Coals
	Raccoon Creek Group
	Sandstone, Shale, Clay, Limestone Thin Coals
	Middle and Upper Mississippian Rocks
	Shale, Sandstone Limestone, Dolomite
	Borden Group
	Shale, Siltstone, Limestone
	Coldwater Shale
	Grey Shale
	Ellsworth and Sundbury Shales
	Grey, Green, & Black Shales
	New Albany and Antrim Shales
	Black Shales
	Middle Devonian Rocks
	Limestone & Dolomite
	Silurian Rocks
	Limestone, Dolomite, Siltstone, Shale
	Upper Ordovician Rocks
	Shale & Limestone



DRAINAGE



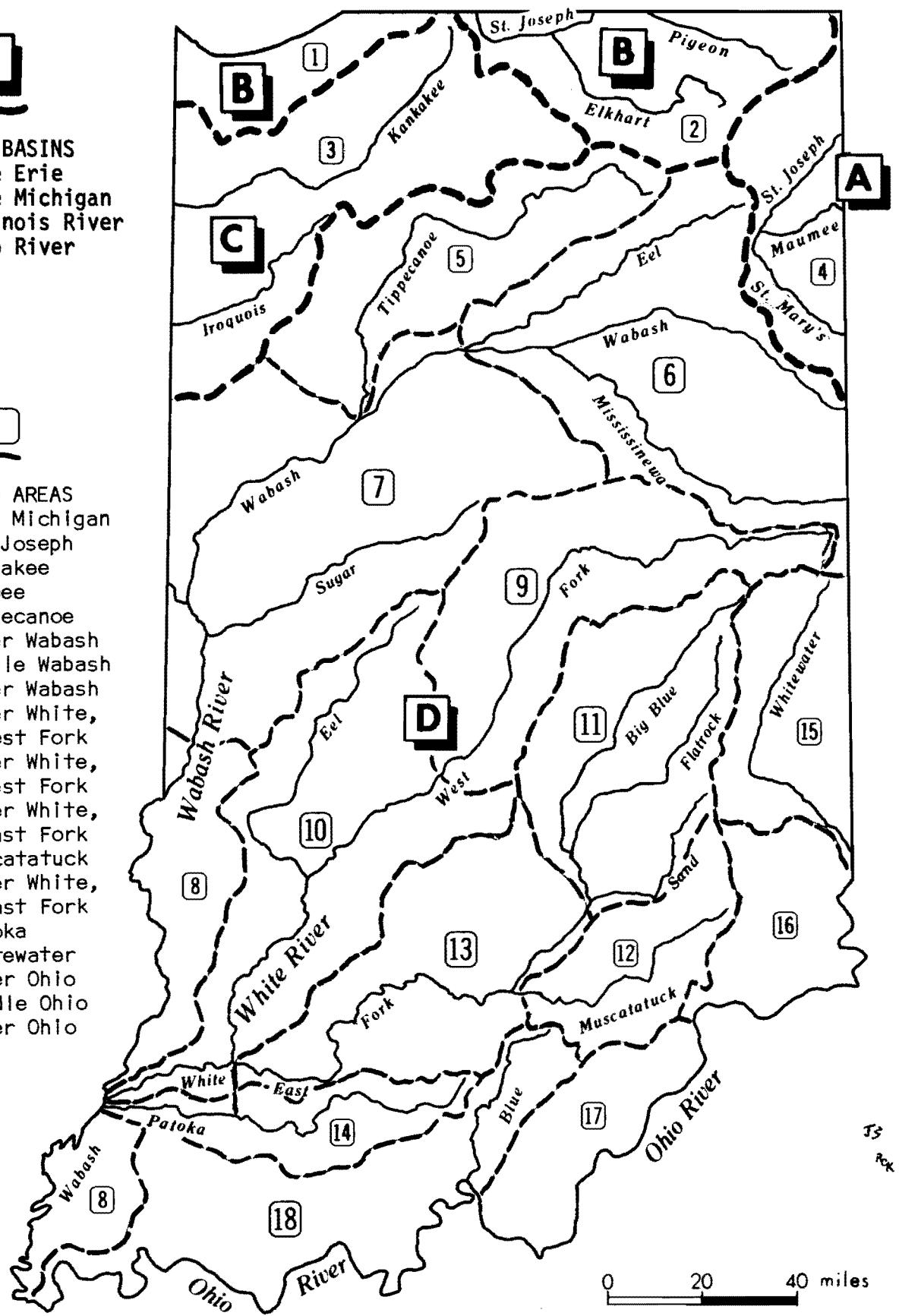
DRAINAGE BASINS

- A Lake Erie
- B Lake Michigan
- C Illinois River
- D Ohio River



WATERSHED AREAS

- 1 Lake Michigan
- 2 St. Joseph
- 3 Kankakee
- 4 Maumee
- 5 Tippecanoe
- 6 Upper Wabash
- 7 Middle Wabash
- 8 Lower Wabash
- 9 Upper White, West Fork
- 10 Lower White, West Fork
- 11 Upper White, East Fork
- 12 Muscatatuck
- 13 Lower White, East Fork
- 14 Patoka
- 15 Whitewater
- 16 Upper Ohio
- 17 Middle Ohio
- 18 Lower Ohio

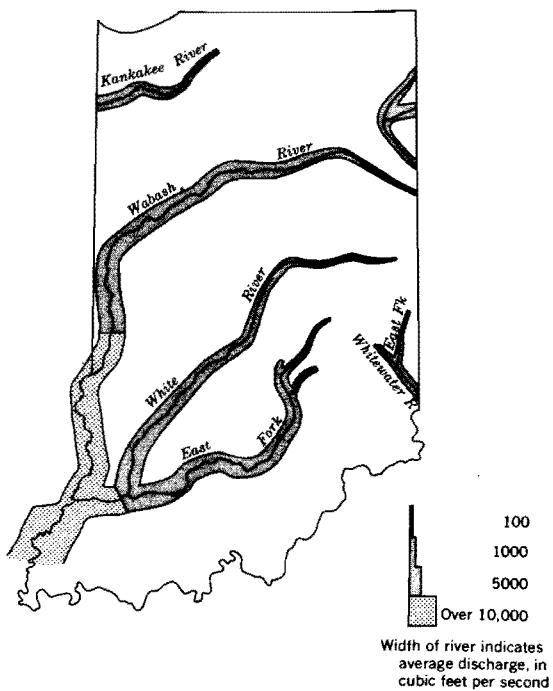


0 20 40 miles

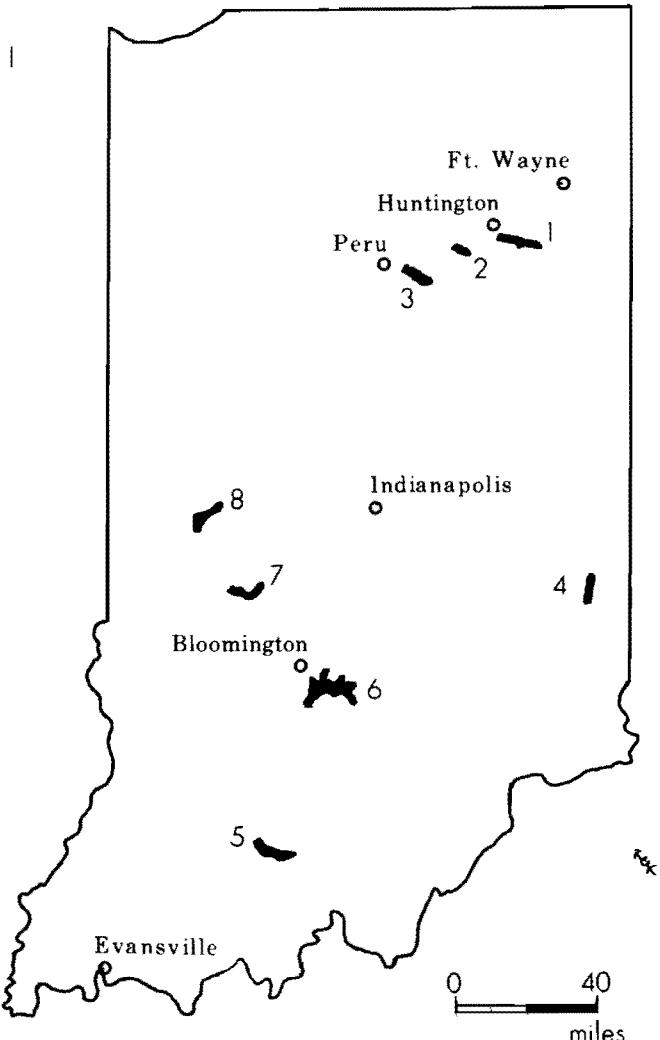
Ts
Rk

- | | |
|----------------|---------------|
| 1 Huntington | 5 Patoka |
| 2 Salamonie | 6 Monroe |
| 3 Mississinewa | 7 Cagles Mill |
| 4 Brookville | 8 Mansfield |

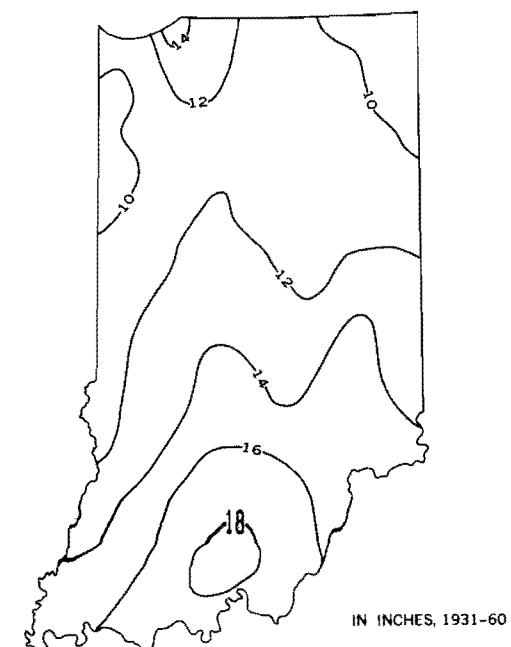
Major Reservoirs



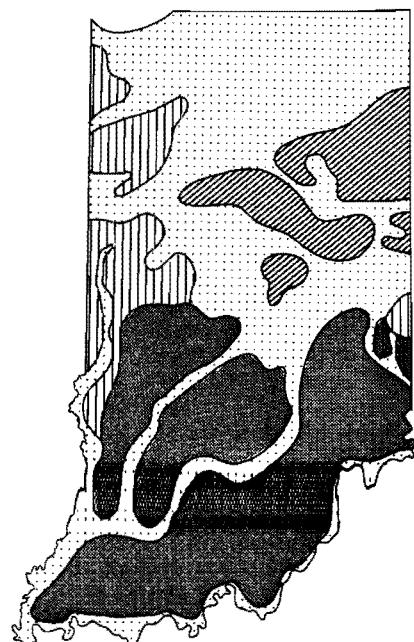
River Discharge



WATER RESOURCES



Average Annual Runoff



Ground Water

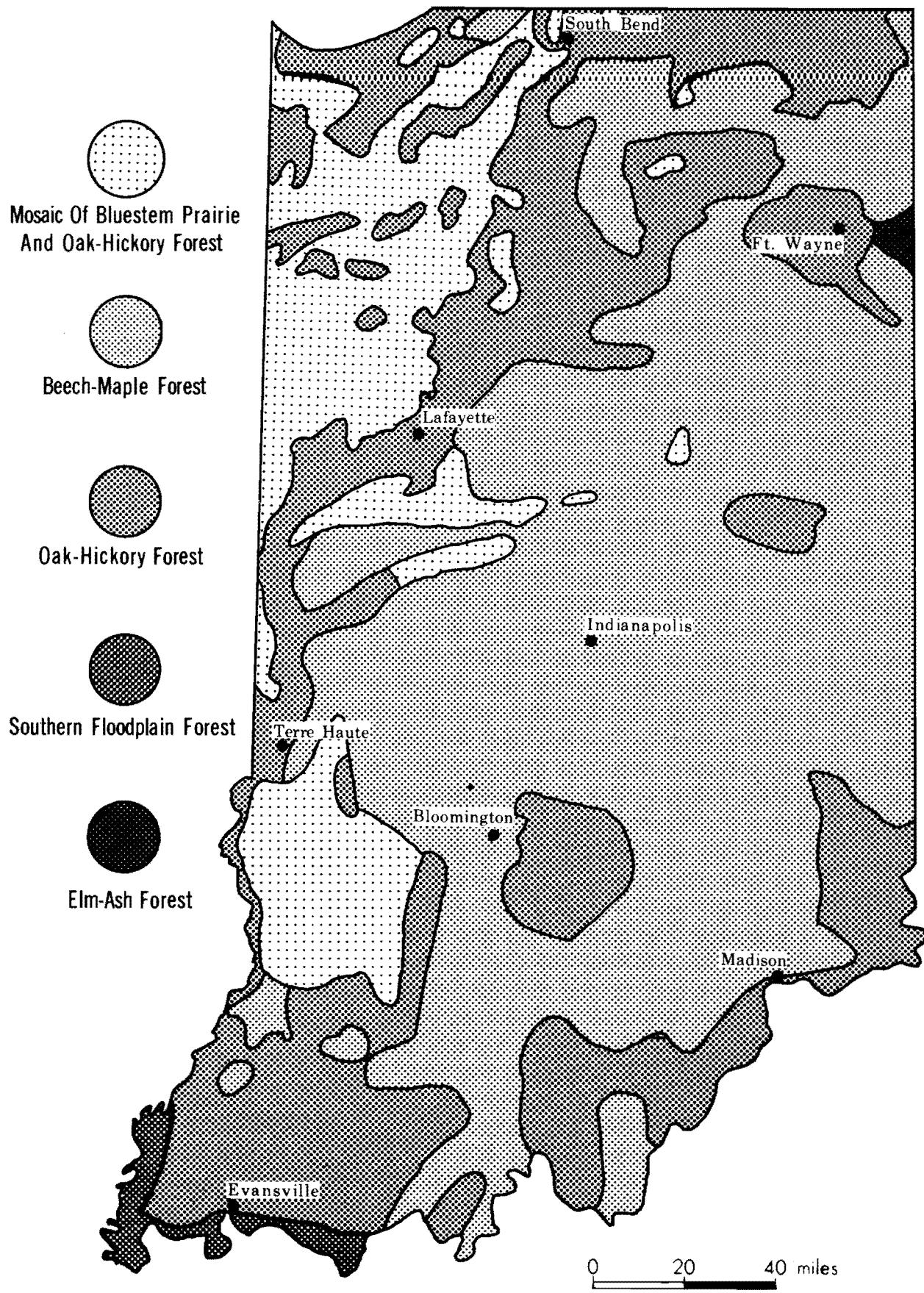
[Dotted Pattern] Production chiefly from sand or gravel. Generally yields range from about 100 to over 500 gpm. Water generally contains from about 200 to about 800 mg/l dissolved solids

[Horizontal Line Pattern] Production from either bedrock or sand or gravel. Generally yields range from about 100 to 500 gpm. Water generally contains from about 200 to about 800 mg/l dissolved solids

[Vertical Line Pattern] Production chiefly from bedrock. Generally yields range from about 100 to 500 gpm. Water generally contains from about 250 to about 800 mg/l dissolved solids

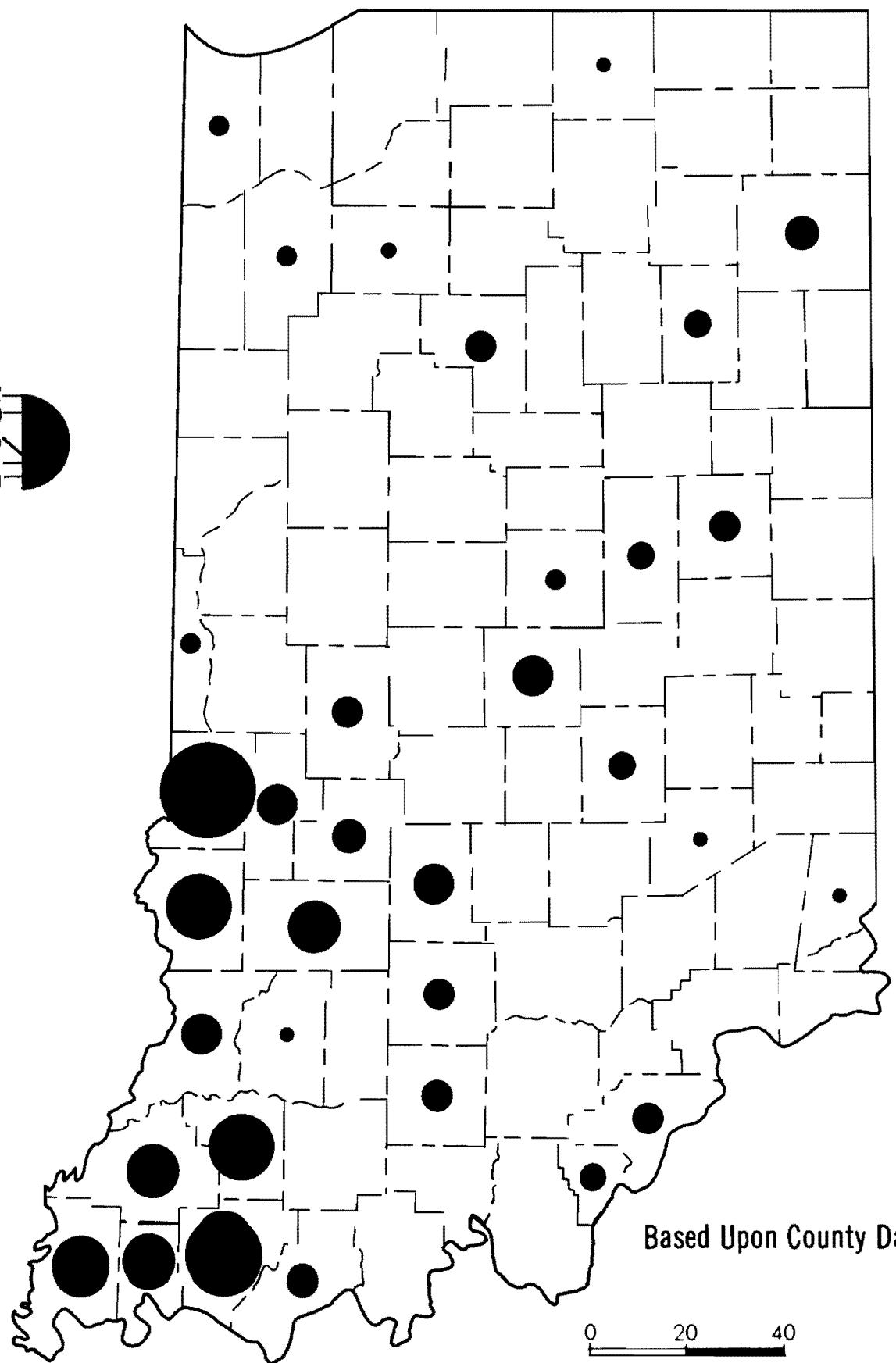
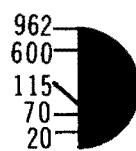
[Solid Black Area] Production chiefly from bedrock. Generally yields range from less than 10 to about 40 gpm. Water generally contains from about 300 to about 1,000 mg/l dissolved solids

NATURAL VEGETATION



EMPLOYEES IN MINERAL INDUSTRIES, 1963

Only Counties With 20 Or More Employees Marked



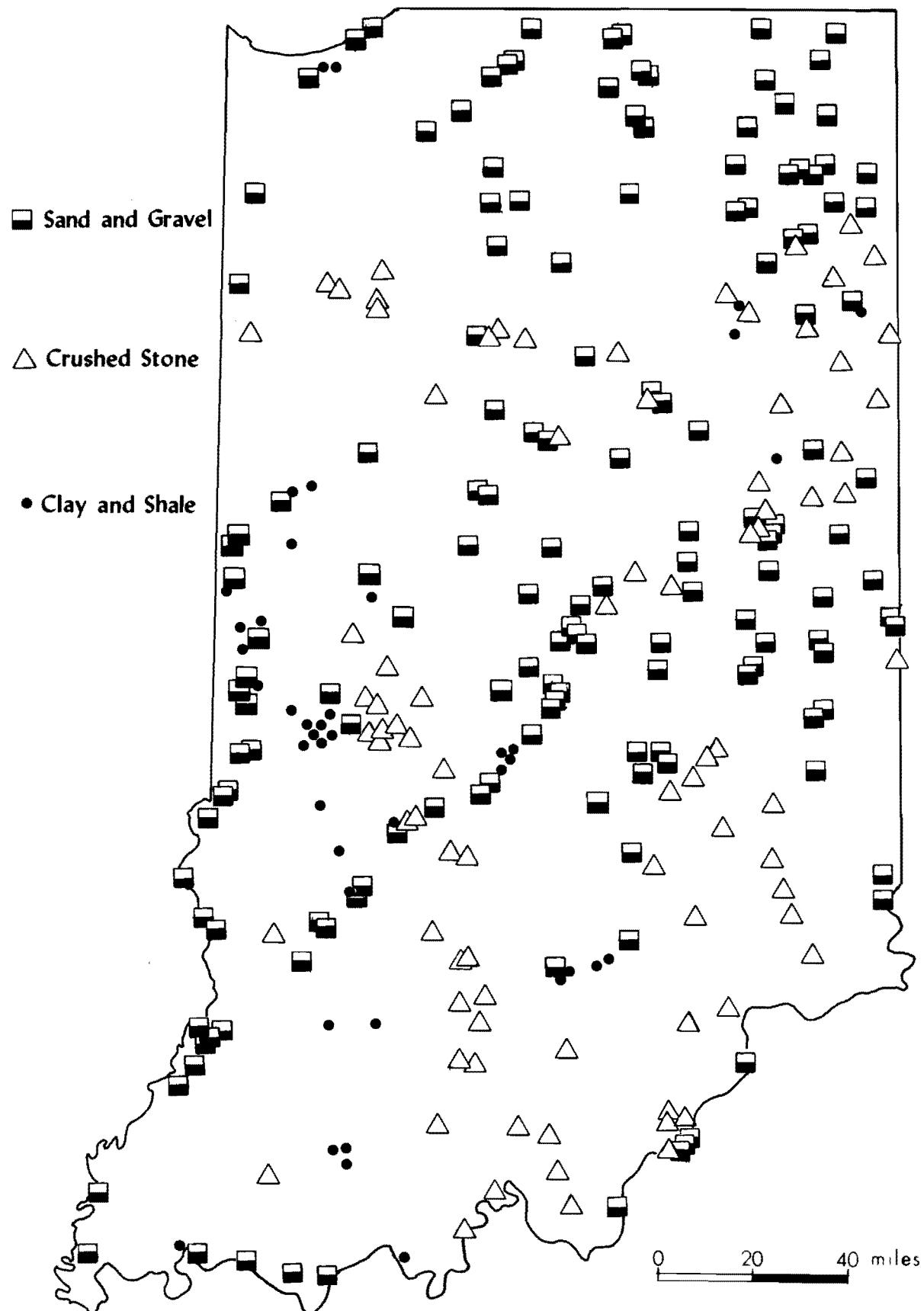
Based Upon County Data

0 20 40

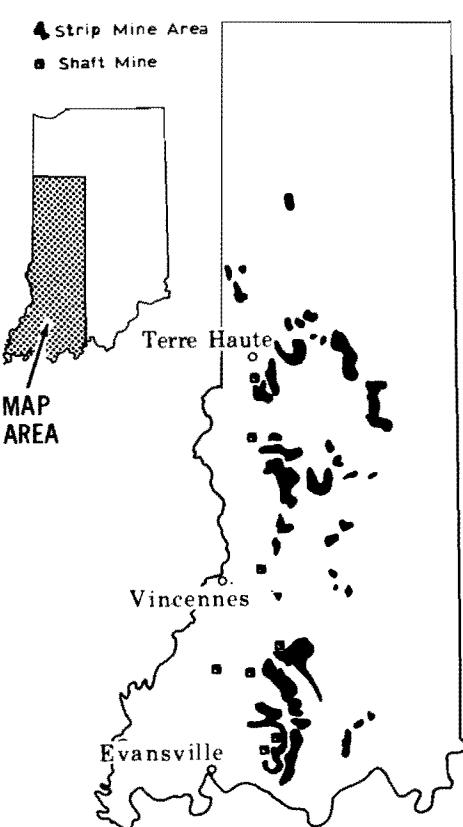
miles

JG

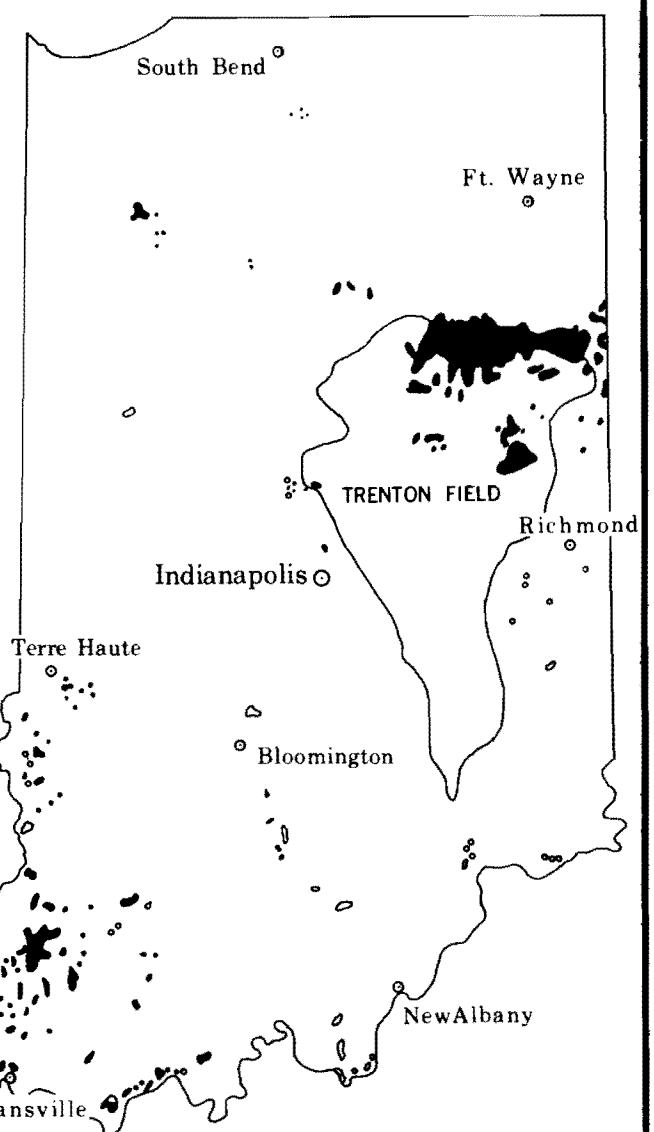
MINERAL RESOURCES



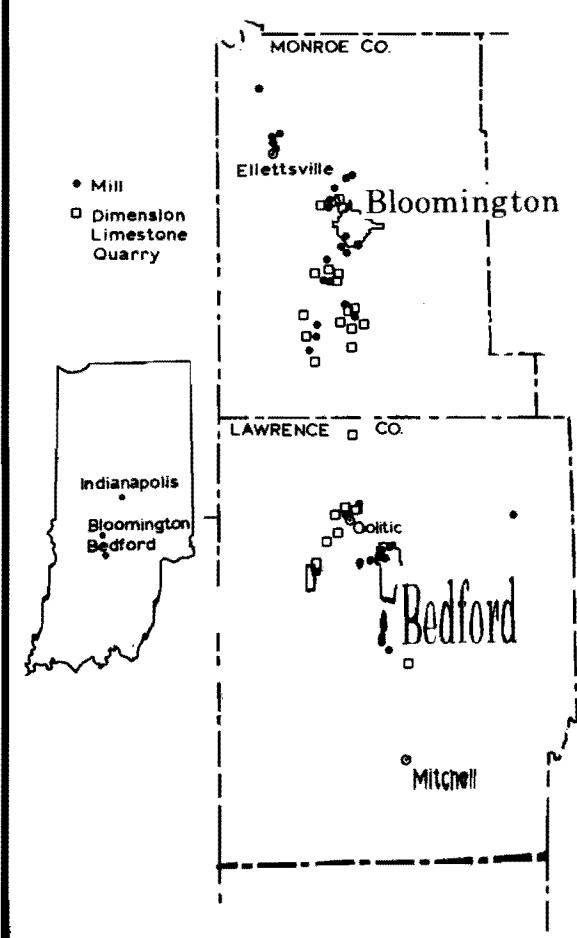
COAL



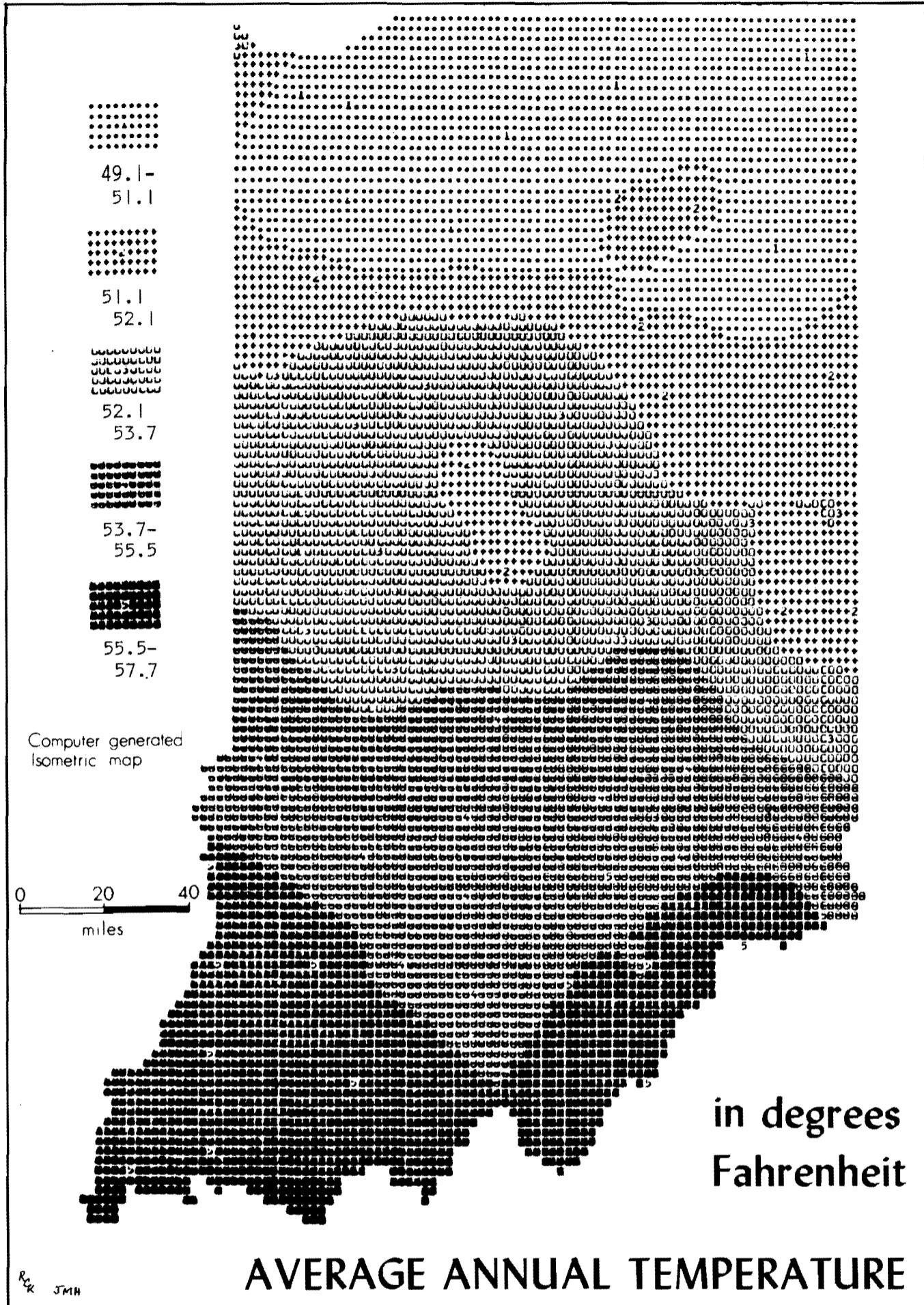
OIL and GAS



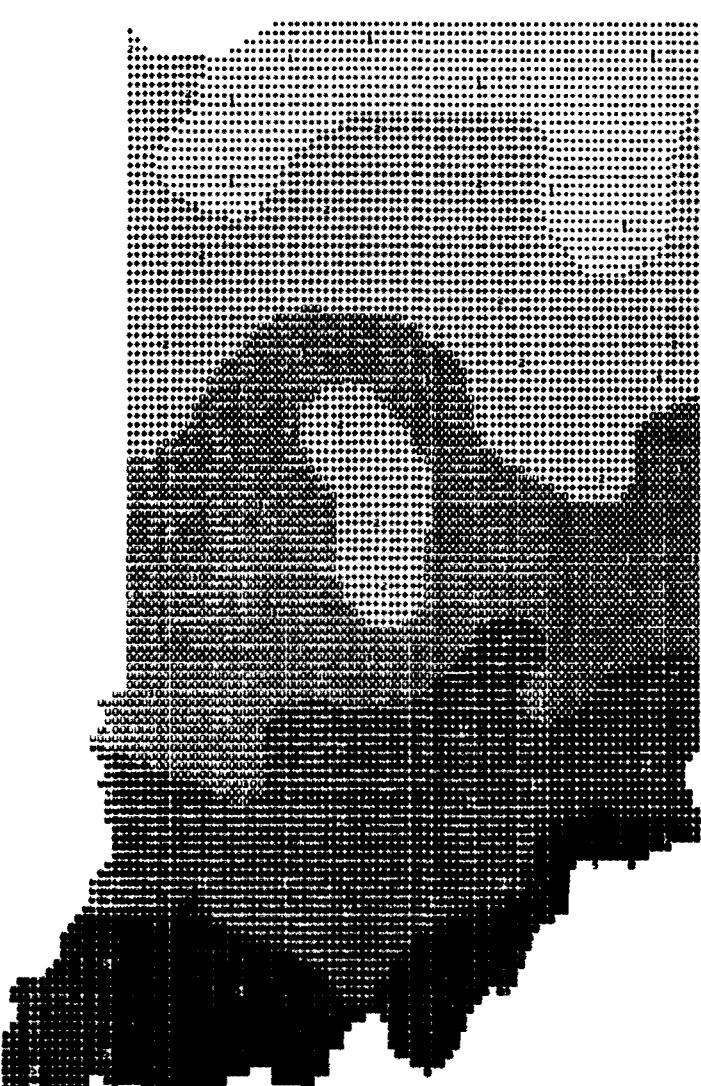
DIMENSION LIMESTONE



**MINERAL
RESOURCES**



Computer generated
Isometric map

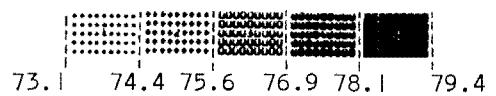


**AVERAGE JANUARY
TEMPERATURE**
in degrees Fahrenheit

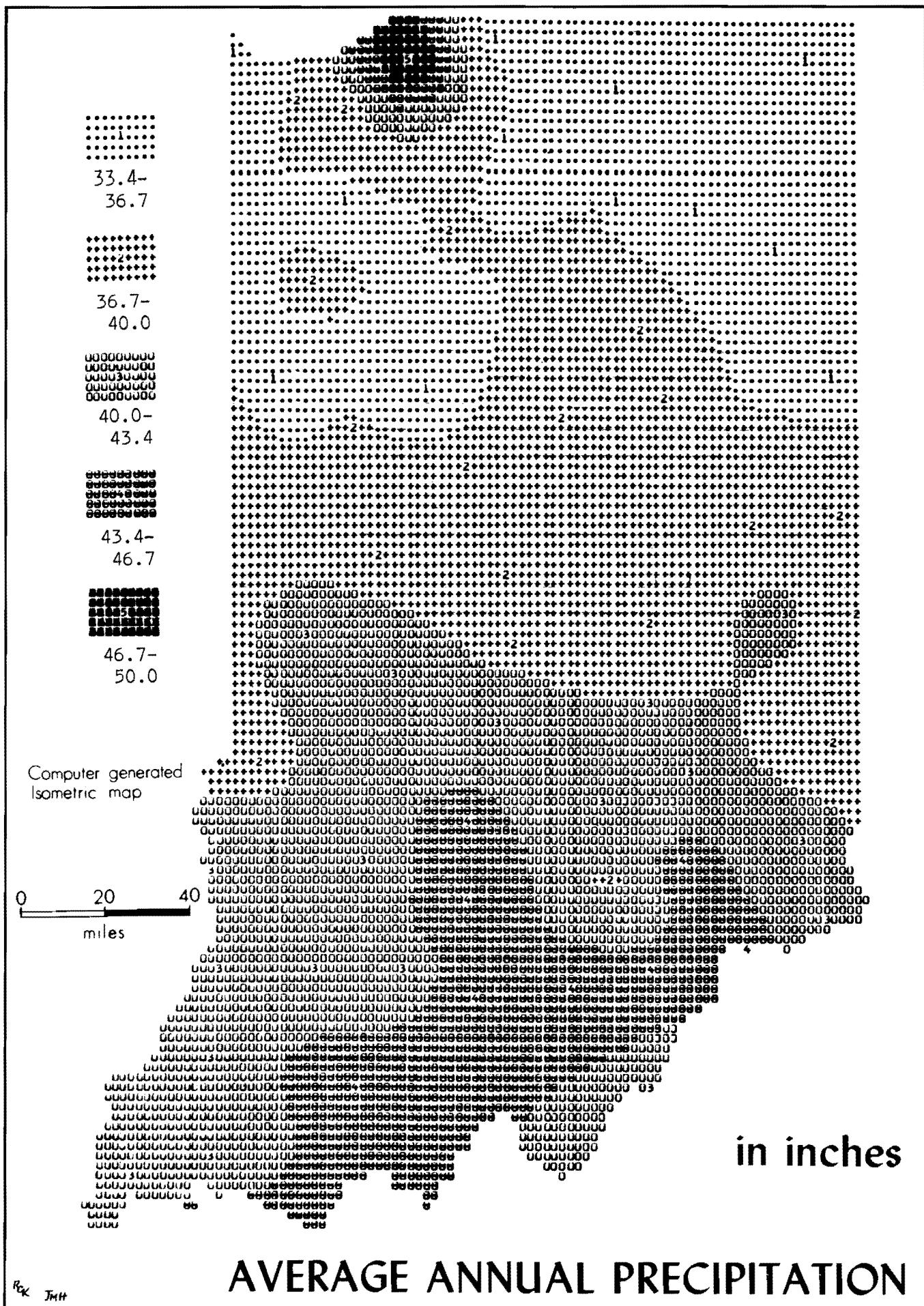
AVERAGE JULY TEMPERATURE

in degrees Fahrenheit

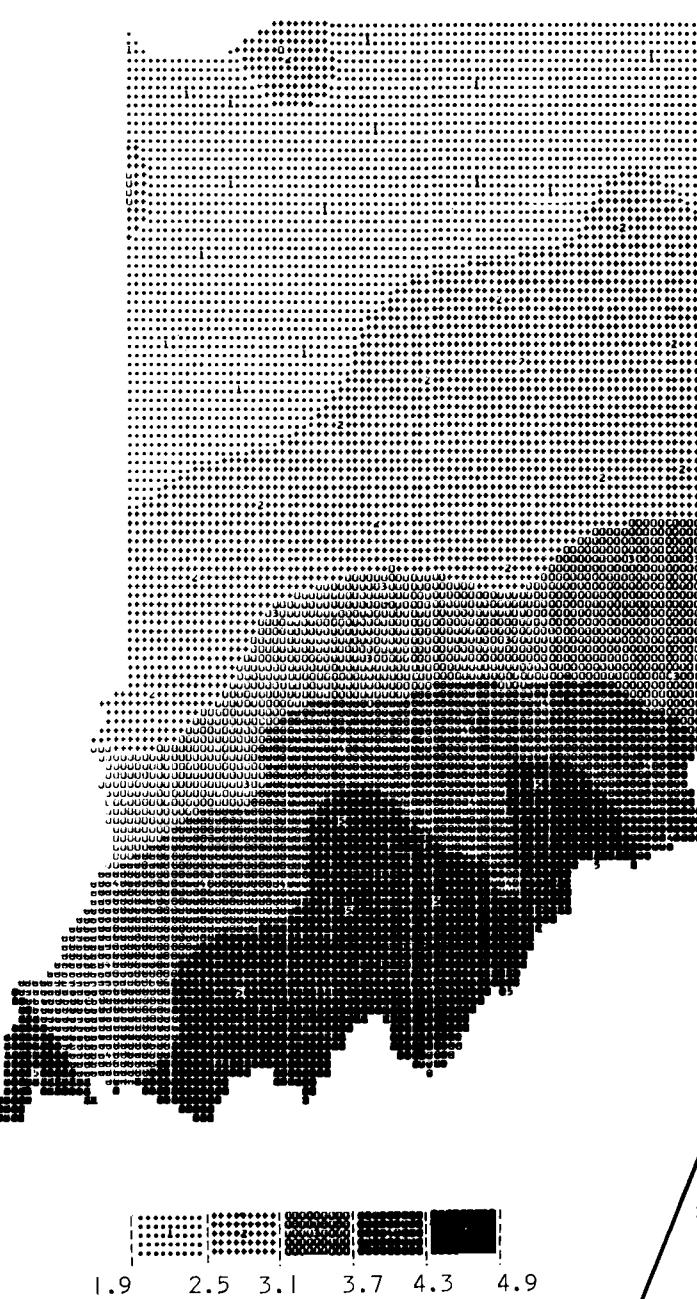
EACH DATA ZONE CONTAINS
ABOUT SAME RANGE OF VALUES



Computer generated
Isometric map



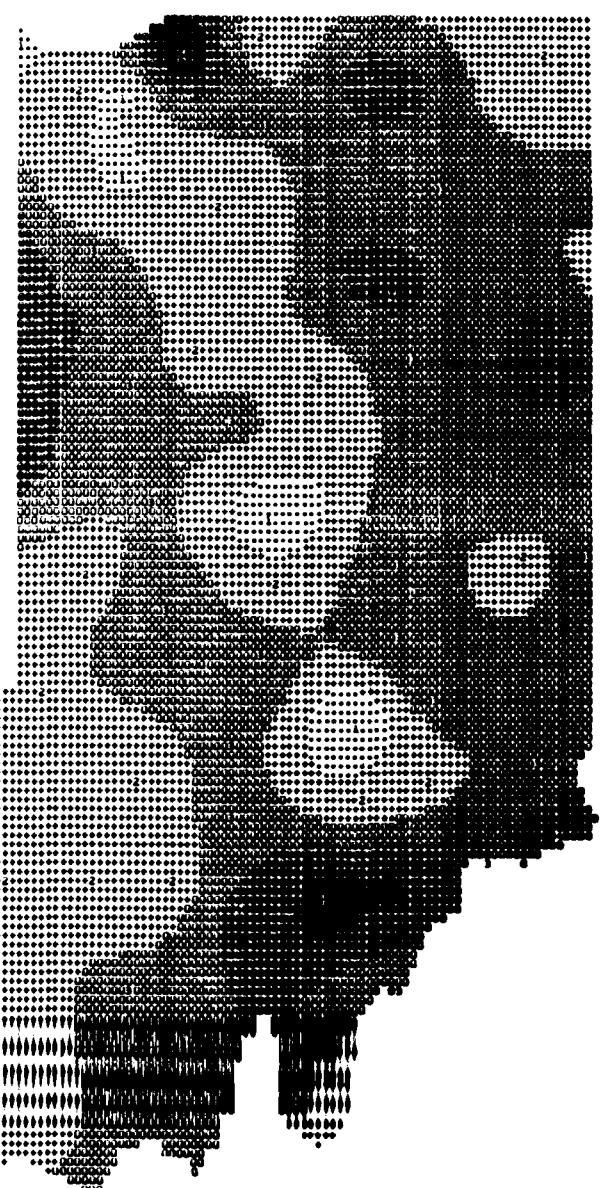
Computer generated
Isometric map



**AVERAGE JANUARY
PRECIPITATION
in inches**

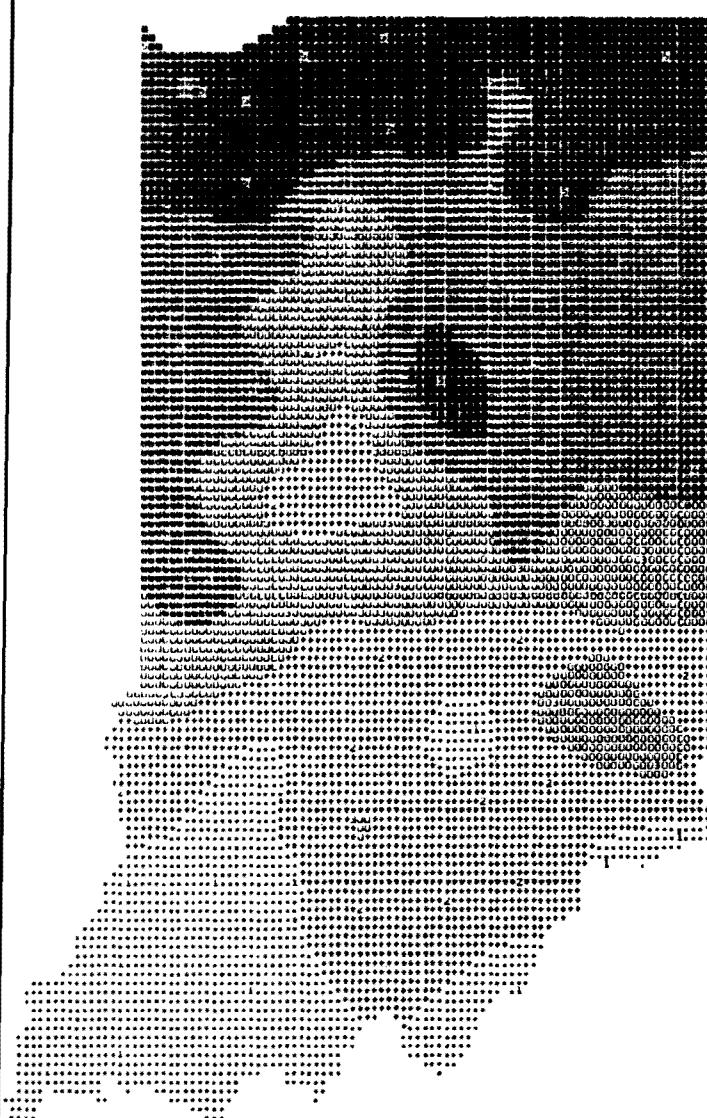
**AVERAGE JULY PRECIPITATION
in inches**

EACH DATA ZONE CONTAINS
ABOUT SAME RANGE OF VALUES



Computer generated
Isometric map

Computer generated
Isometric map



8.5 12.4 16.7 20.0 24.3 65.9

THE SAME NUMBER OF DATA POINTS
ARE FOUND IN EACH DATA ZONE

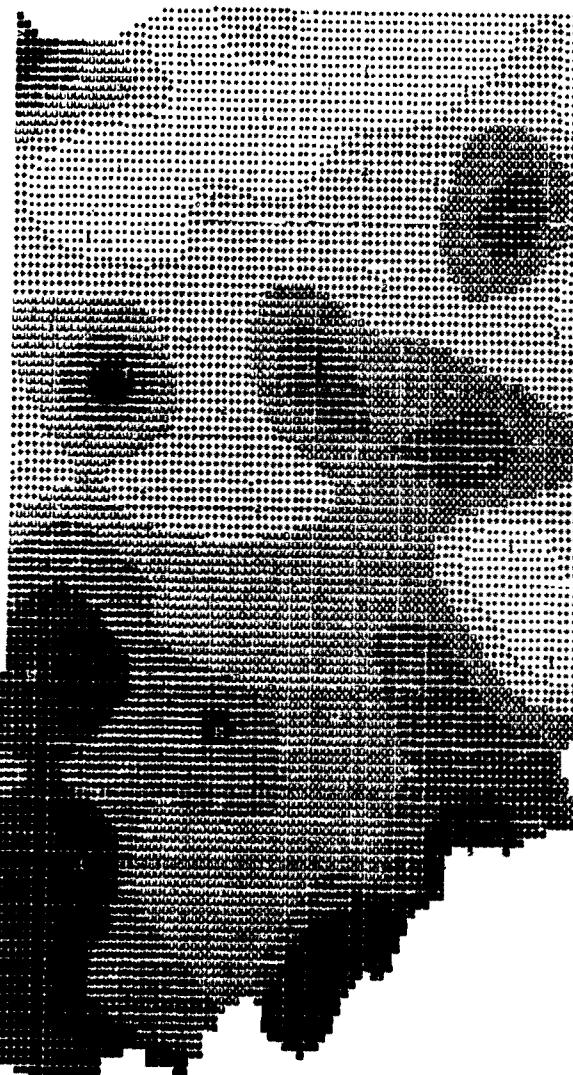
AVERAGE ANNUAL SNOWFALL in inches

Computer generated
Isometric map

LENGTH OF THE GROWING SEASON Number of Days Above 32°F. Annually

THE SAME NUMBER OF DATA POINTS
ARE FOUND IN EACH DATA ZONE

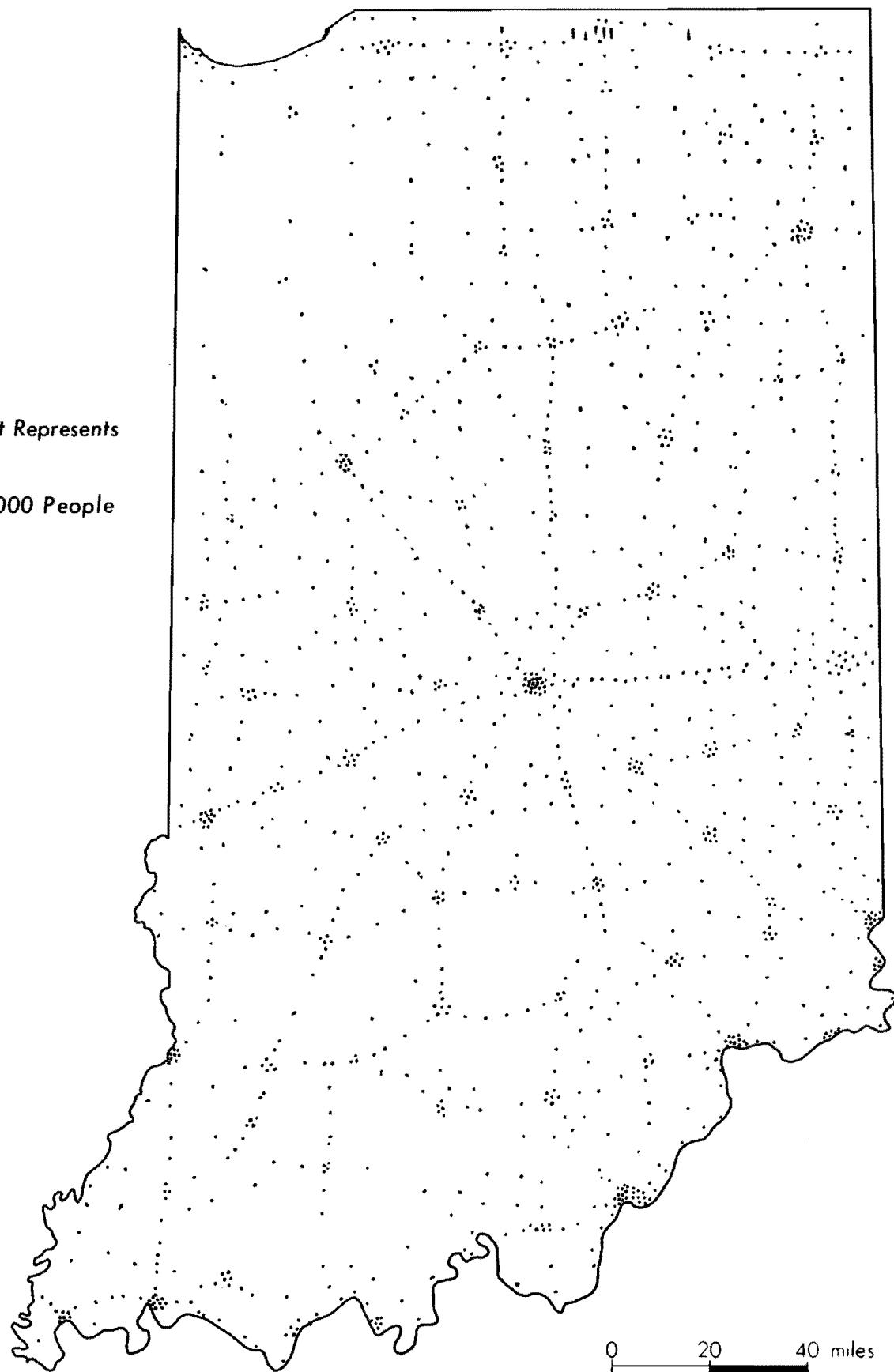
147	160	167	175	181	216
-----	-----	-----	-----	-----	-----



RK

POPULATION DISTRIBUTION, 1860

Each Dot Represents
1000 People



0 20 40 miles

3. POPULATION CHARACTERISTICS

**SETTLEMENTS
With A
Population
Of
1,000-25,000,
1960**

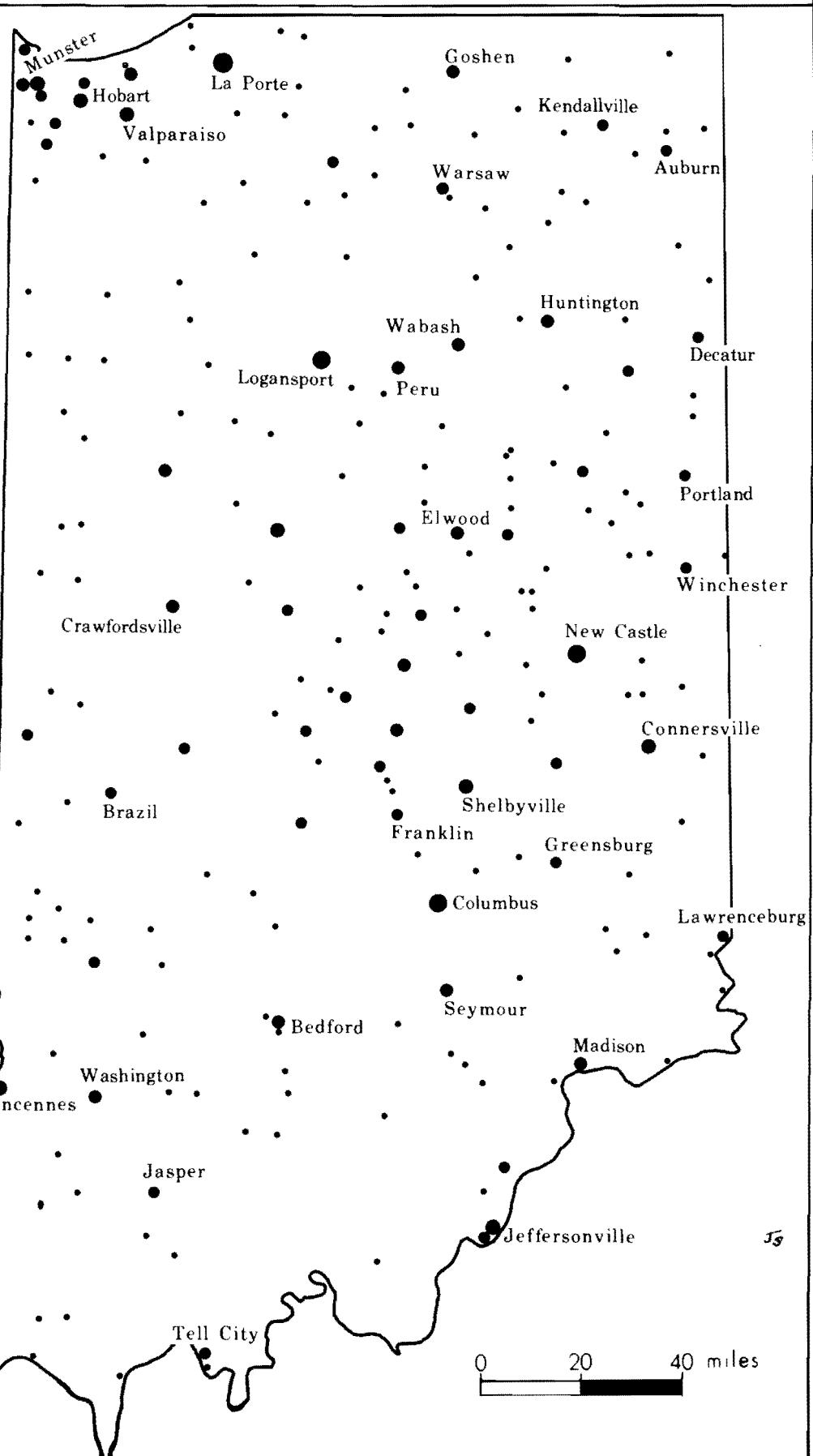
1,000-5,000

5,000-10,000

10,000-15,000

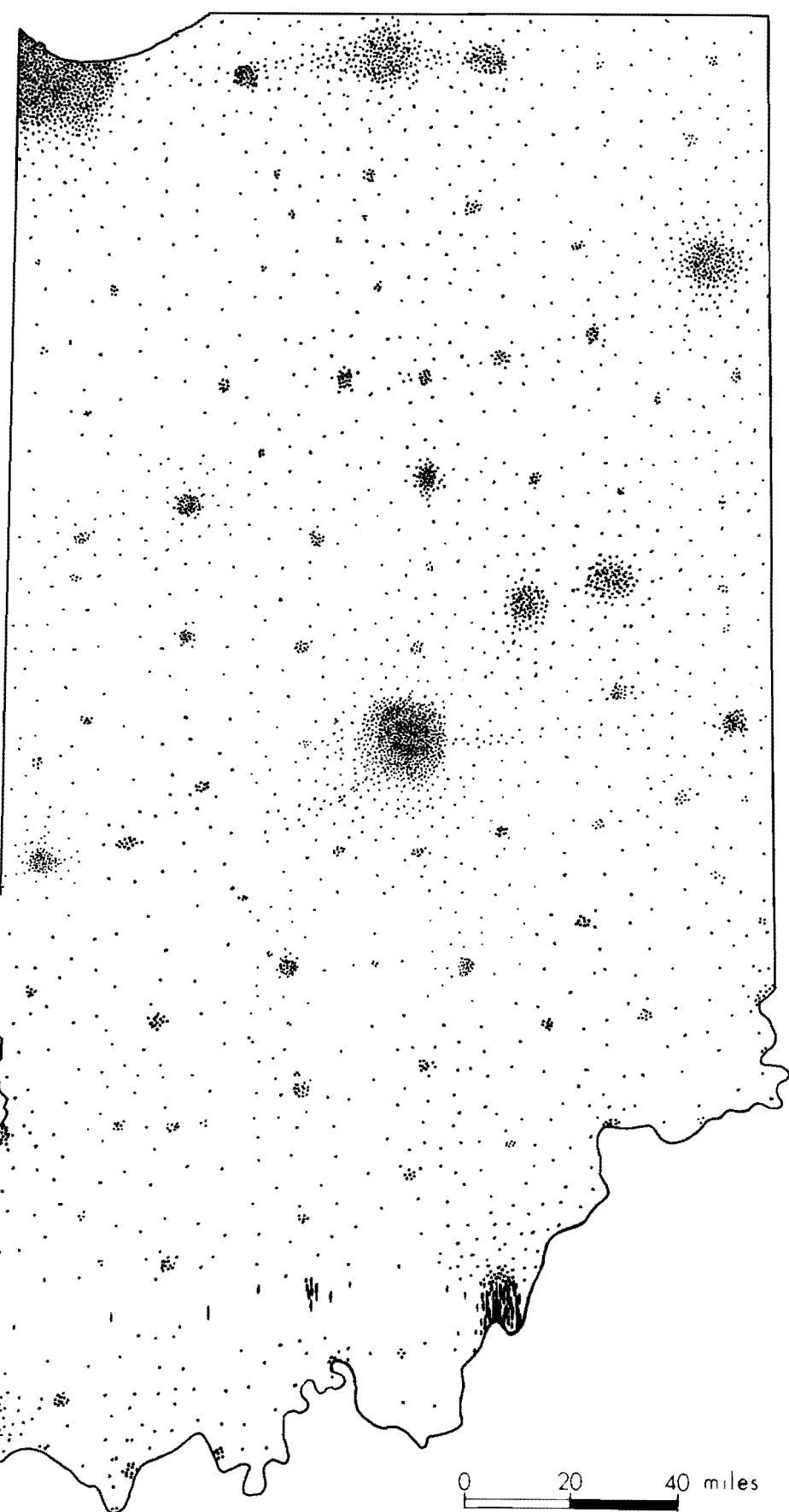
15,000-20,000

20,000-25,000

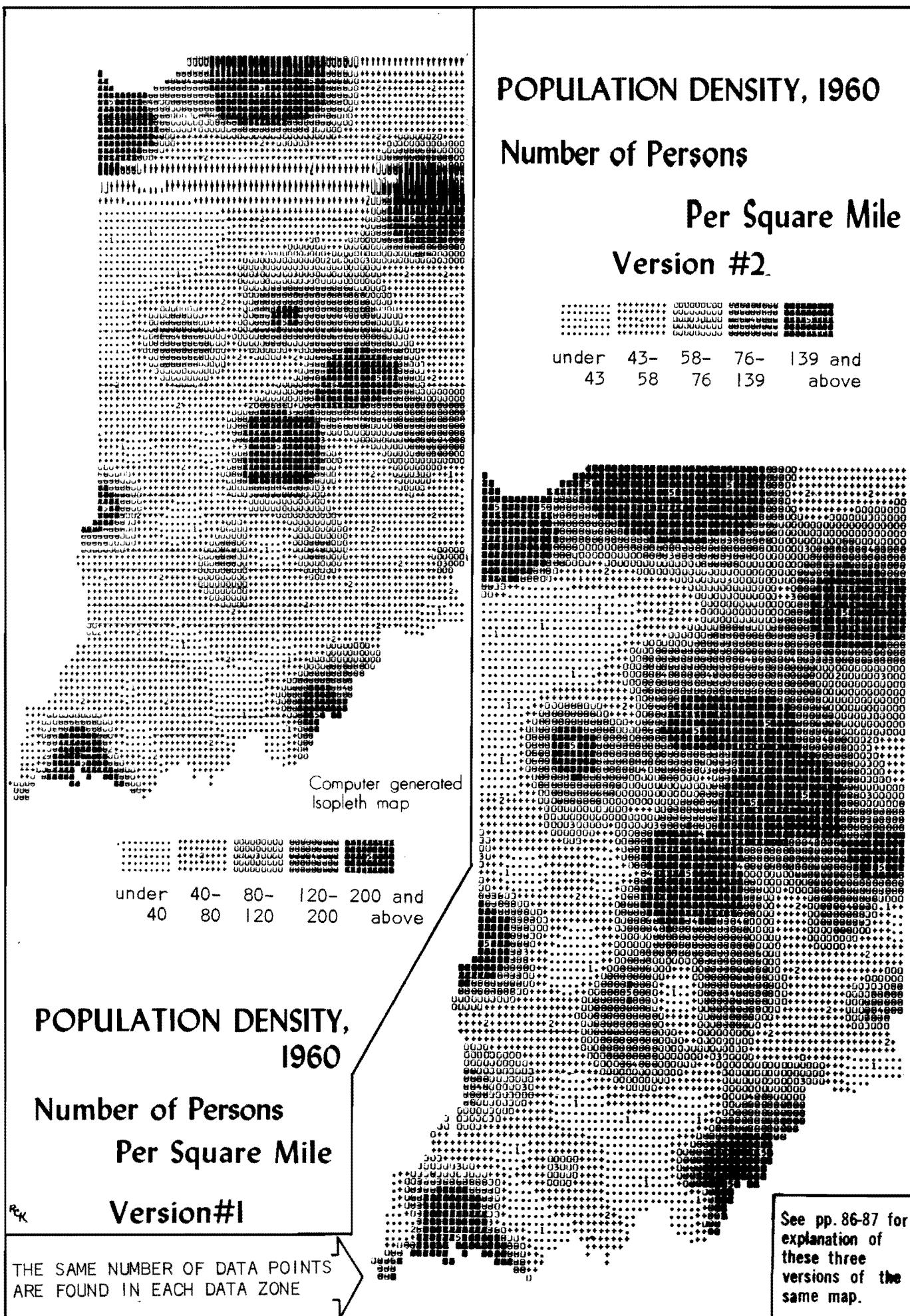


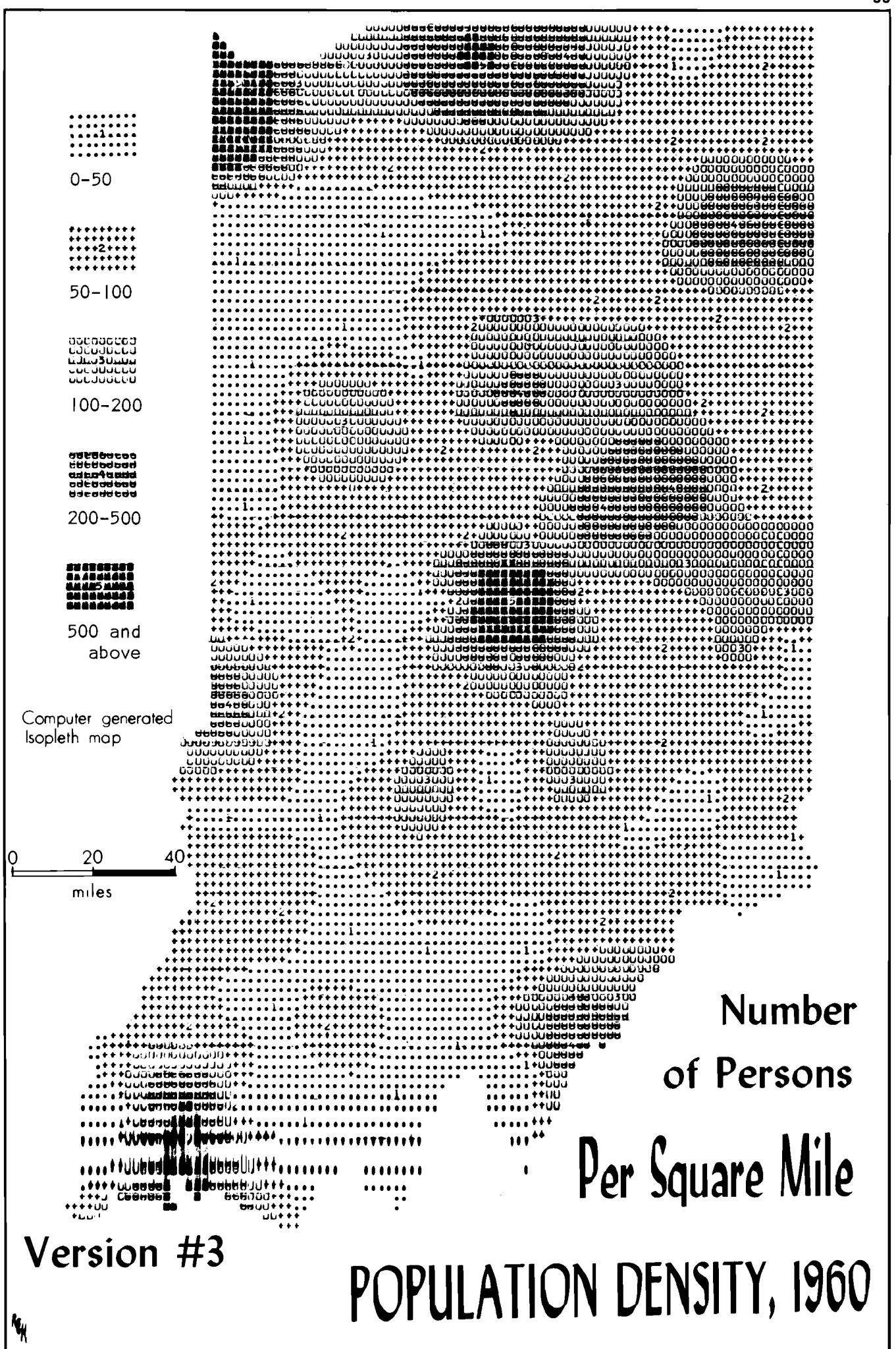
POPULATION DISTRIBUTION, 1960

Each Dot Represents
1000 People



0 20 40 miles





Percent

GAIN:

0-50

.....
.....
.....
.....
.....

50-100

.....
.....
.....
.....
.....

100-150

.....
.....
.....
.....
.....

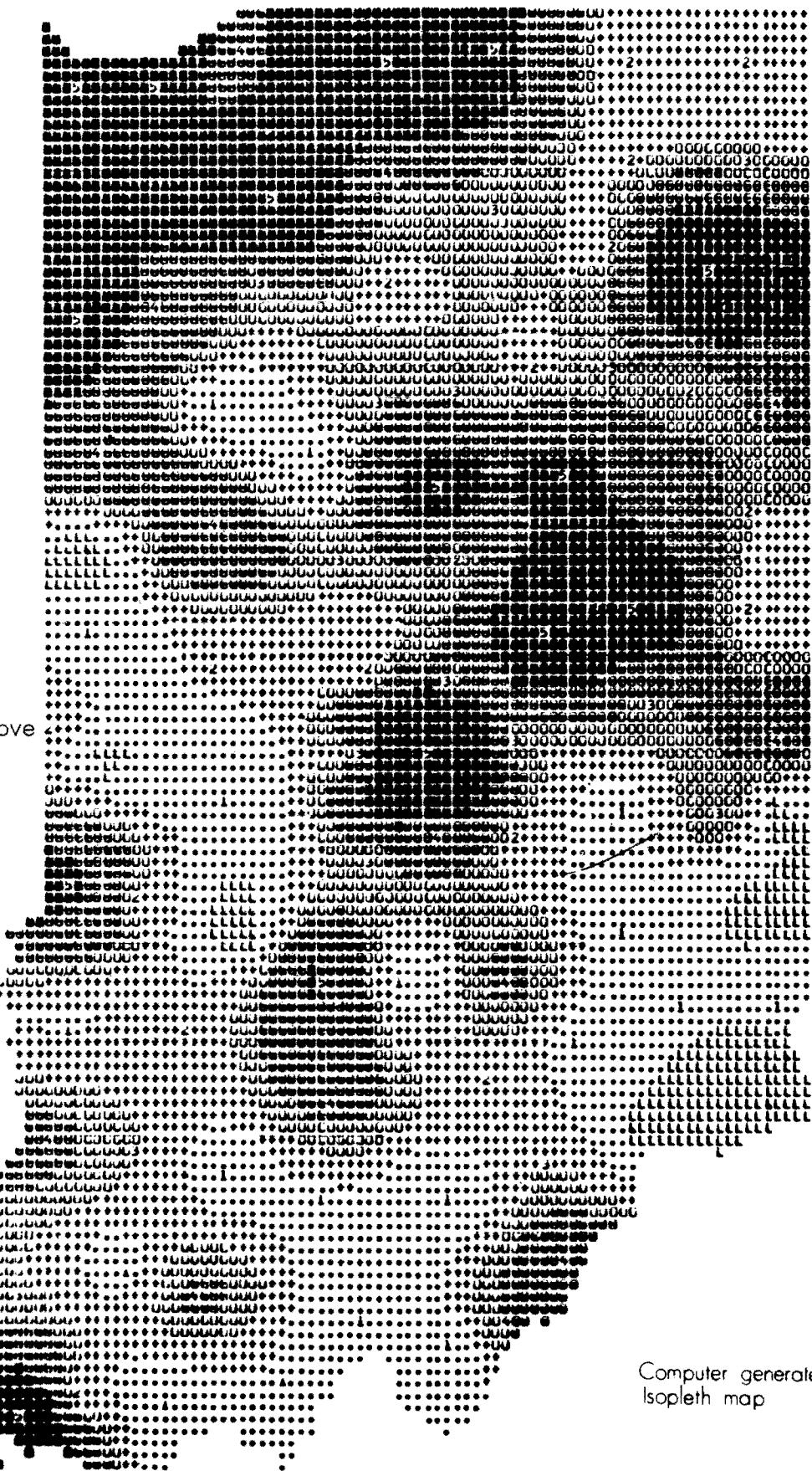
150-350

.....
.....
.....
.....
.....

350 and above

.....
.....
.....
.....
.....

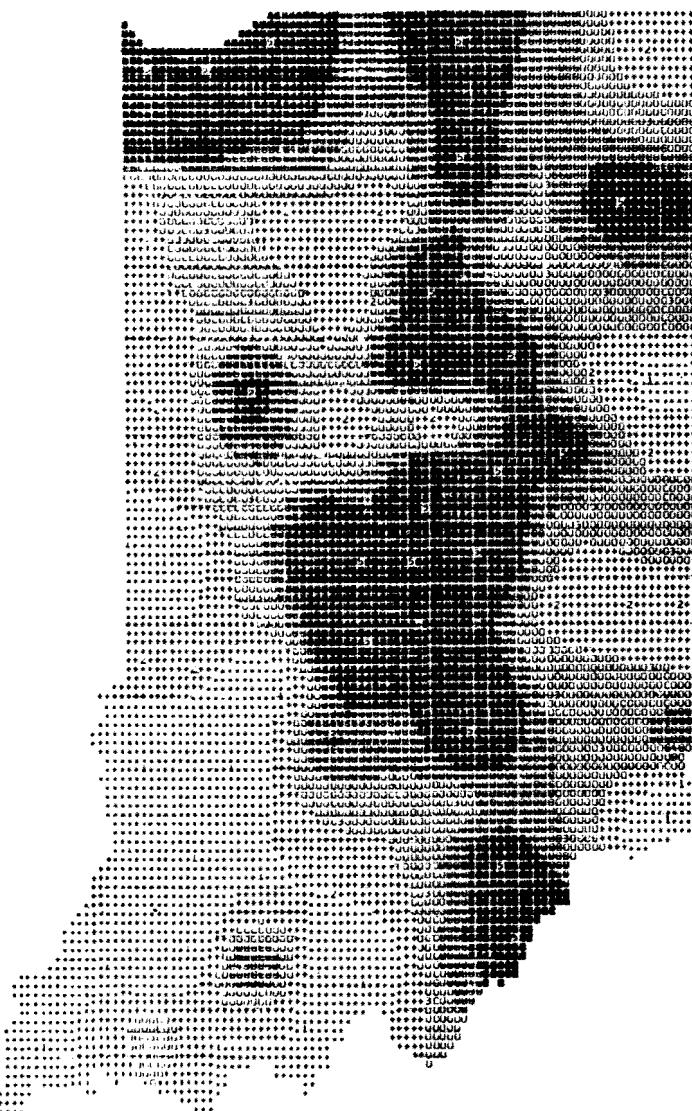
LOSS



Computer generated
Isopleth map

POPULATION CHANGE, 1860—1960

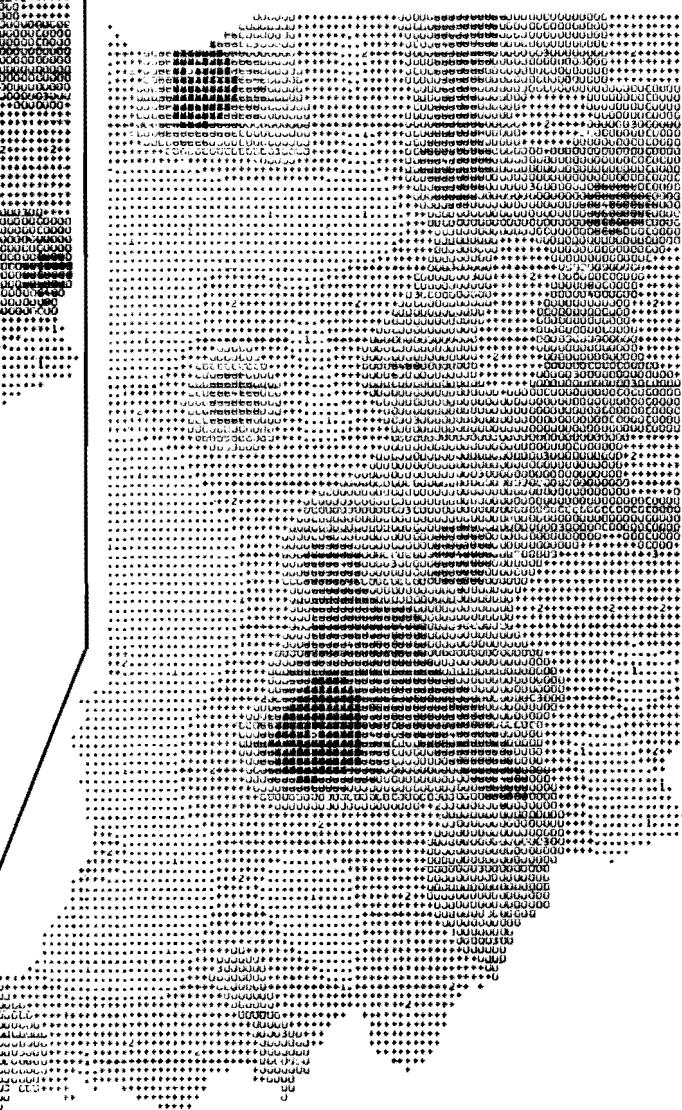
Computer generated
Isopleth map



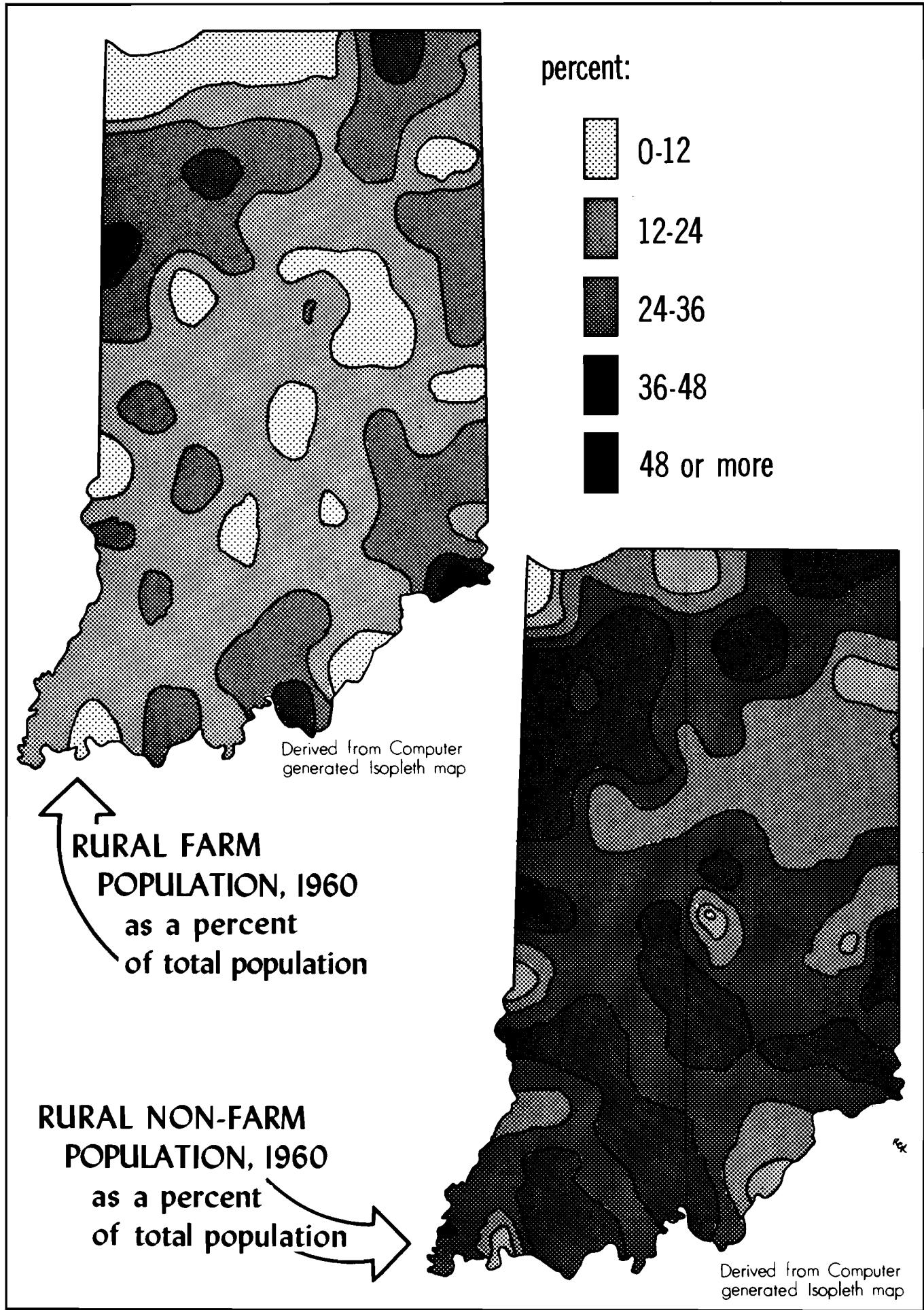
**POPULATION CHANGE,
1950-1960**
in percent

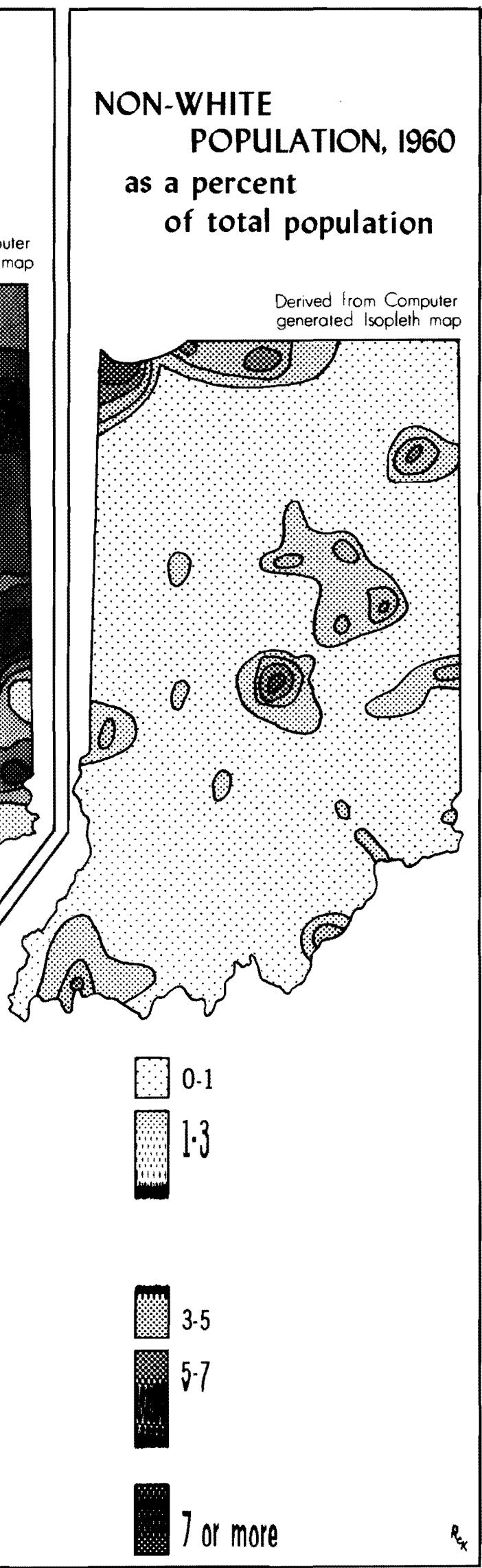
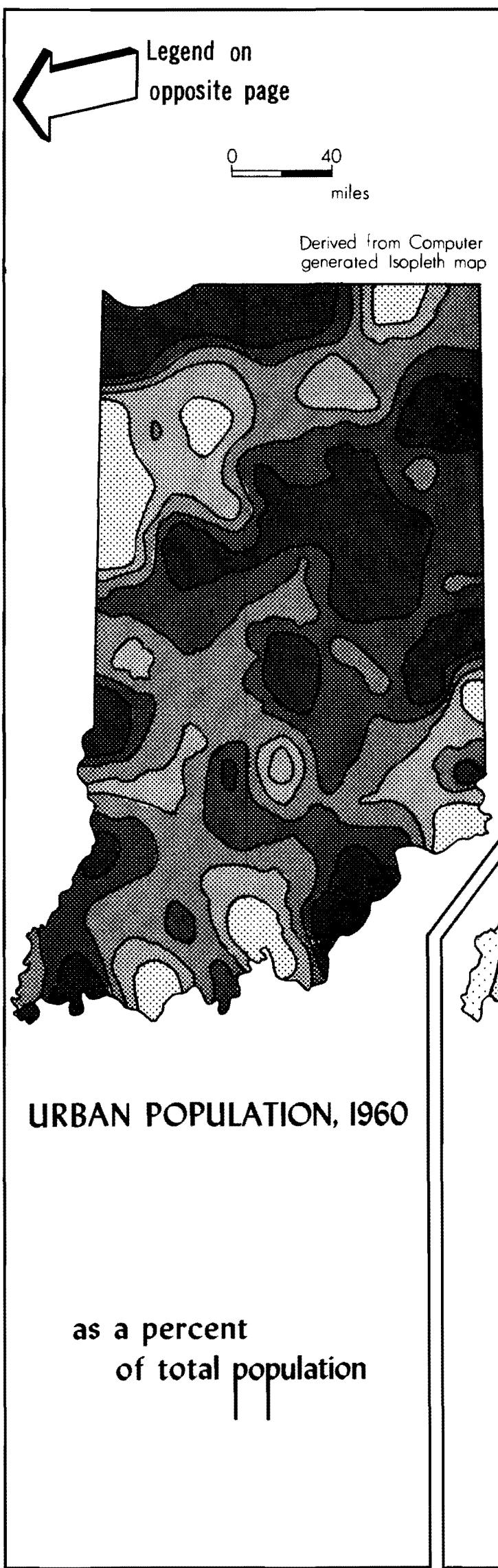
POPULATION CHANGE, 1960-1966 in percent

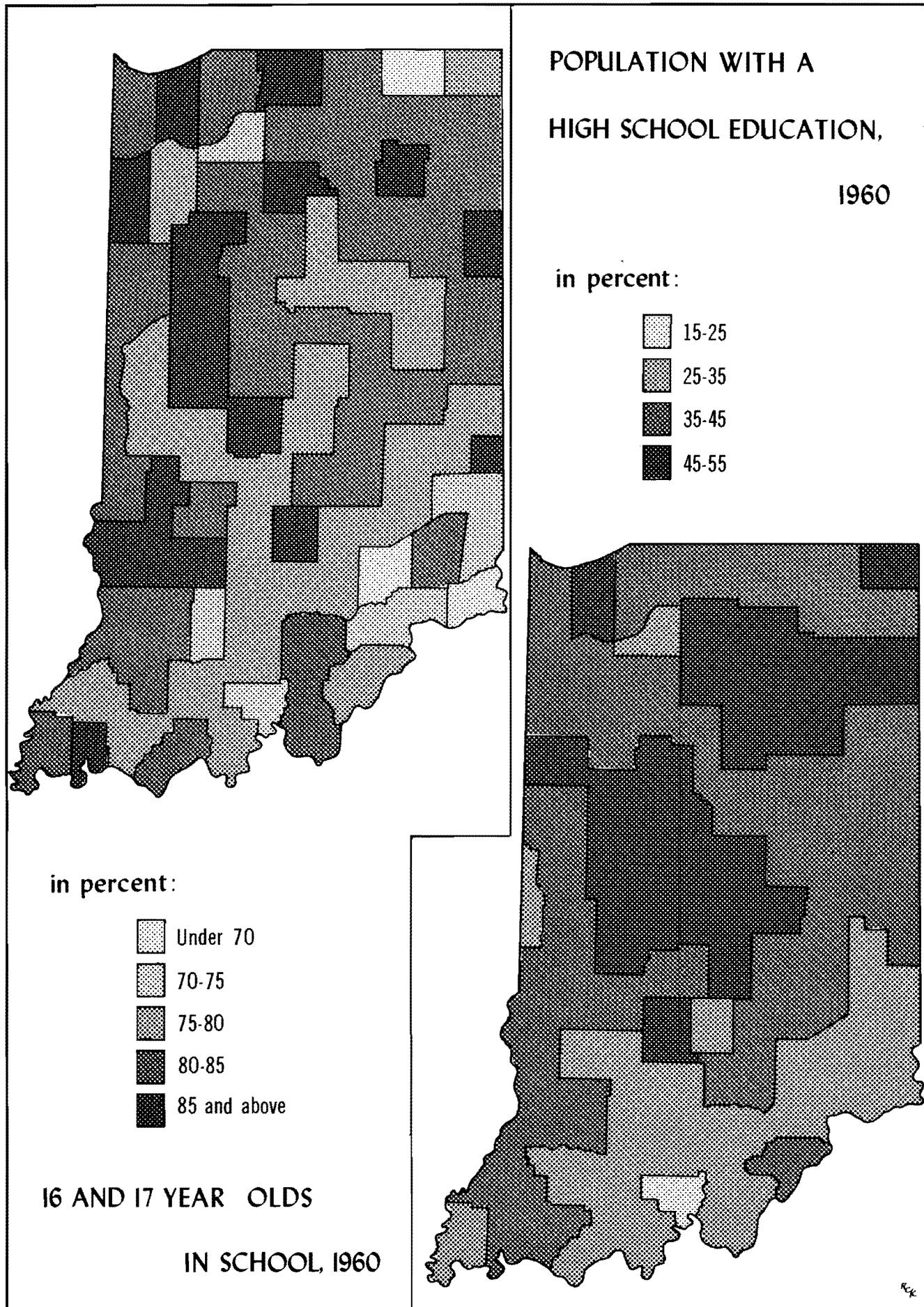
under 0-6 6-12 18 and
0 12 18 above
[loss] [gain]



Computer generated
Isopleth map







PERSONAL INCOME, 1959

Money Income
in Dollars
per person

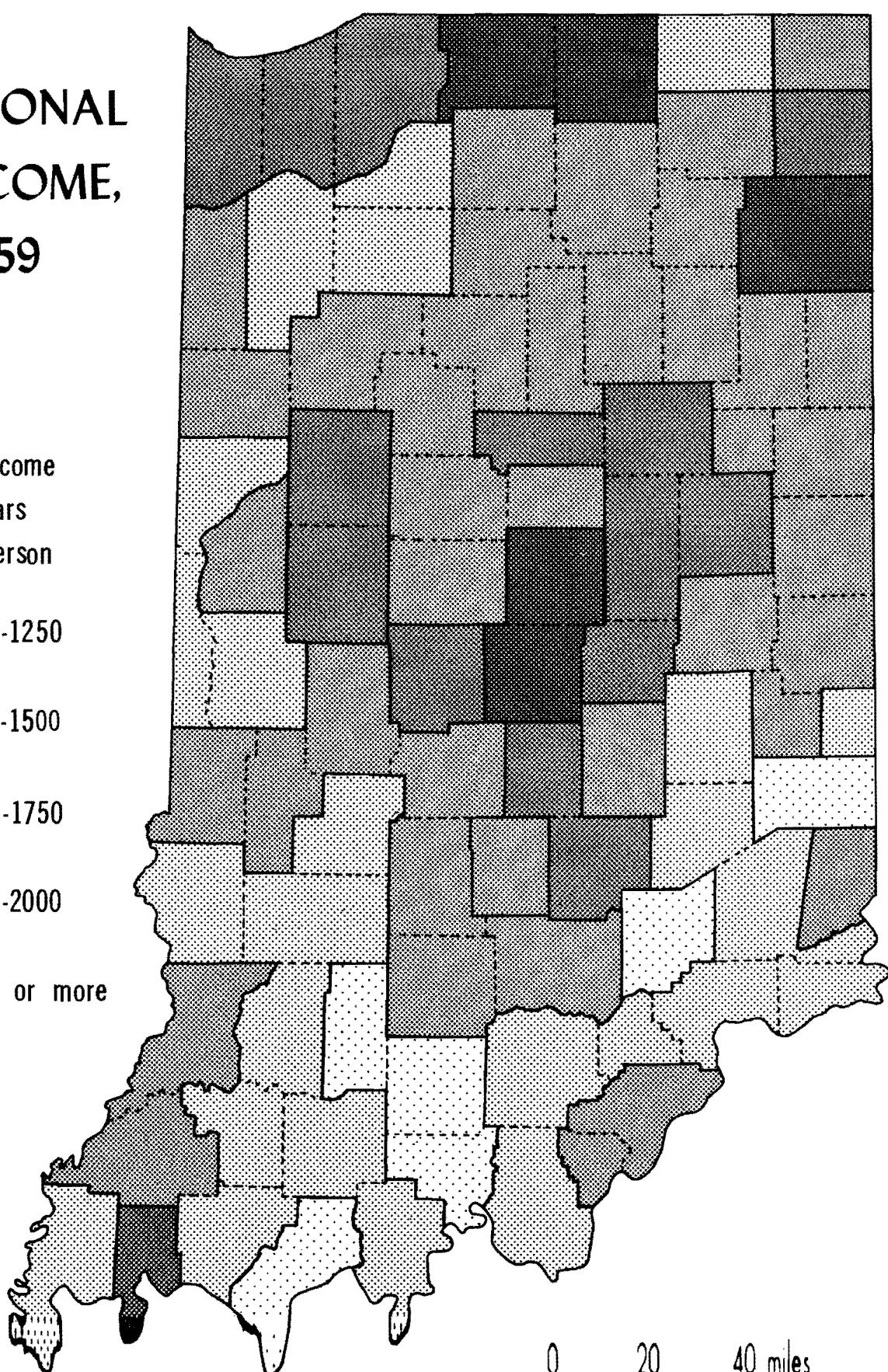
[diagonal lines] 1000-1250

[cross-hatch] 1250-1500

[solid grey] 1500-1750

[dark grey] 1750-2000

[black] 2000 or more



0 20 40 miles

Based Upon County Data

RK

FAMILY INCOME, 1959

Percentage of Families

with Income

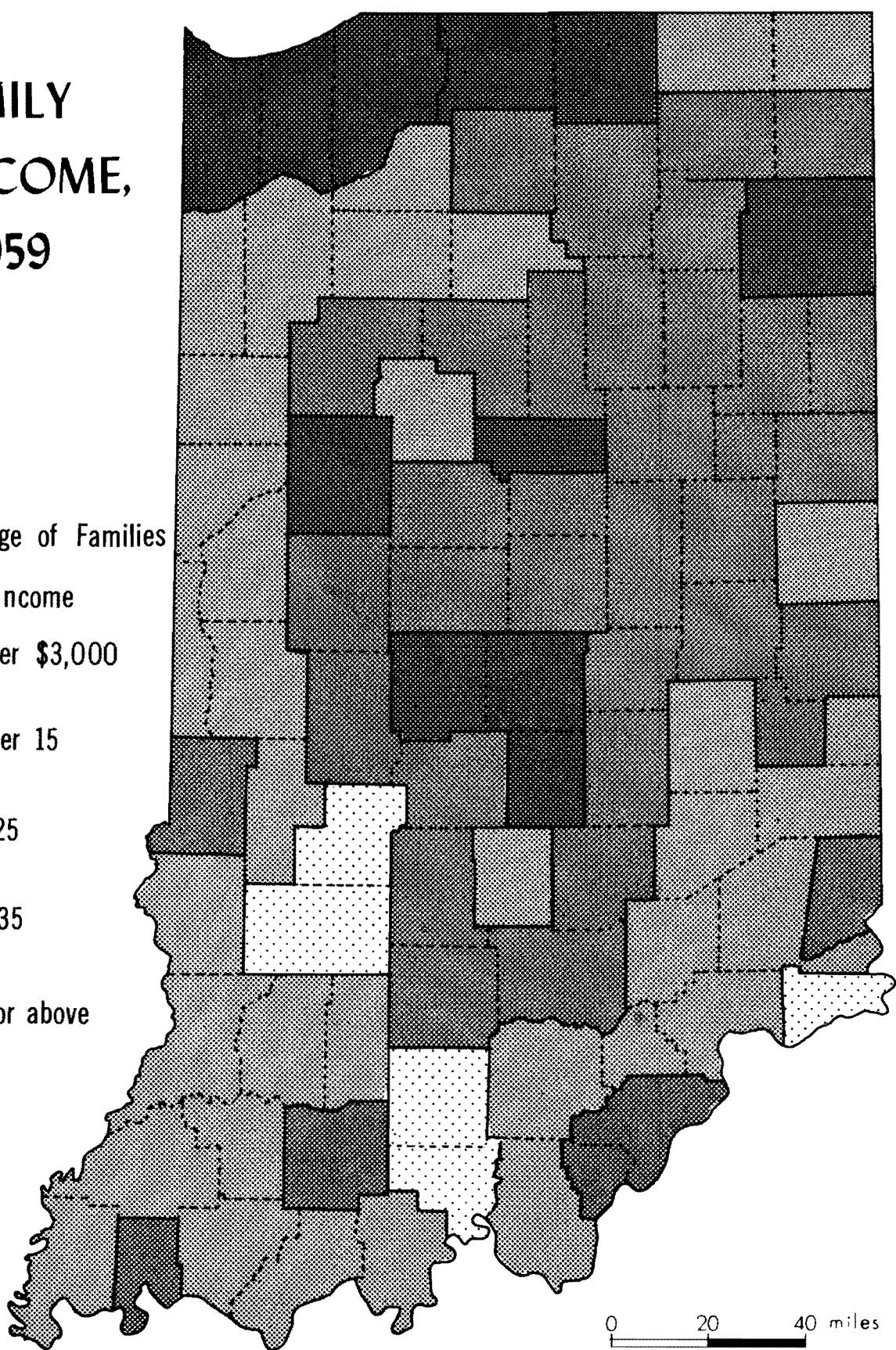
under \$3,000

under 15

15-25

25-35

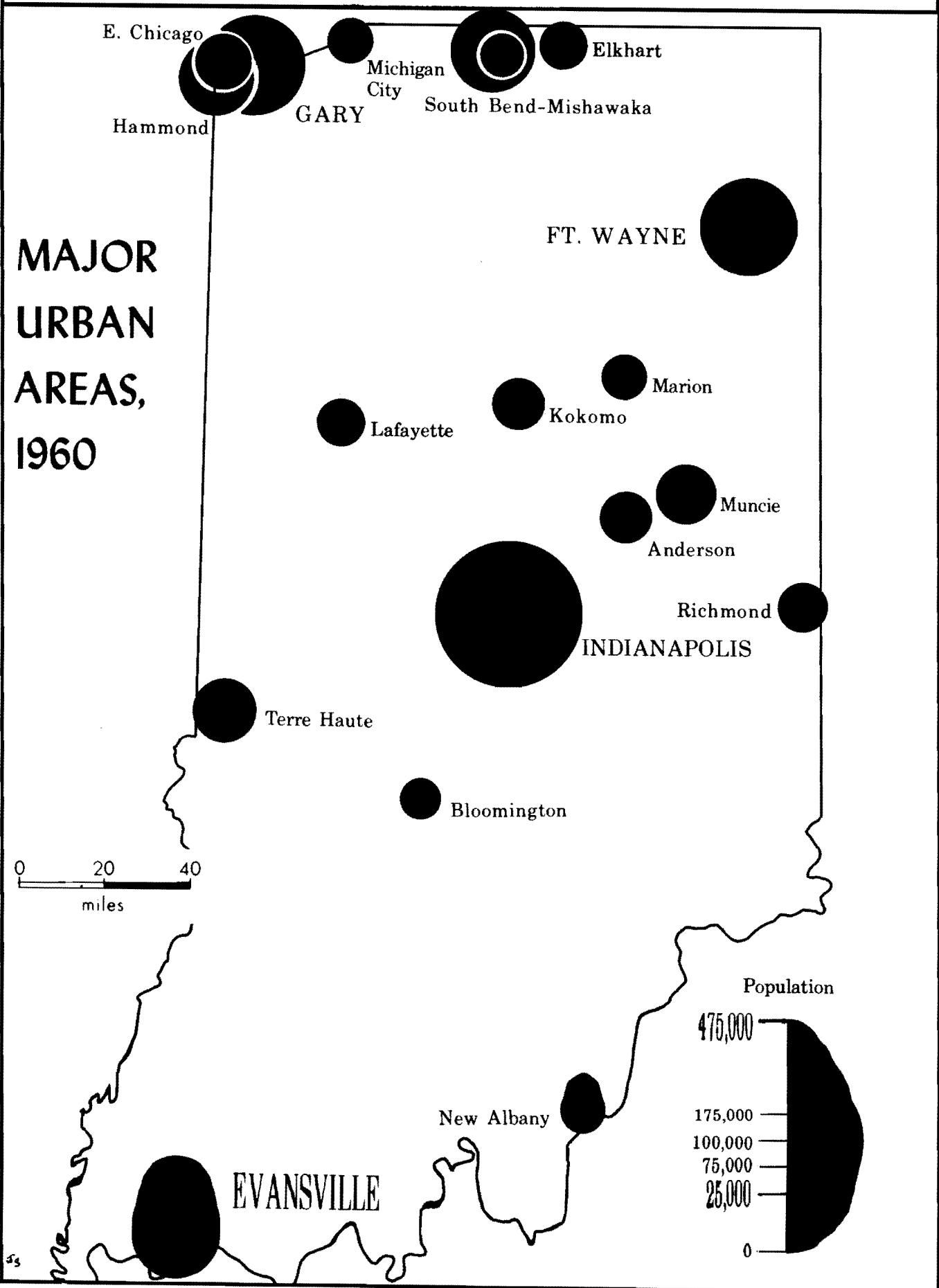
35 or above



Based Upon County Data

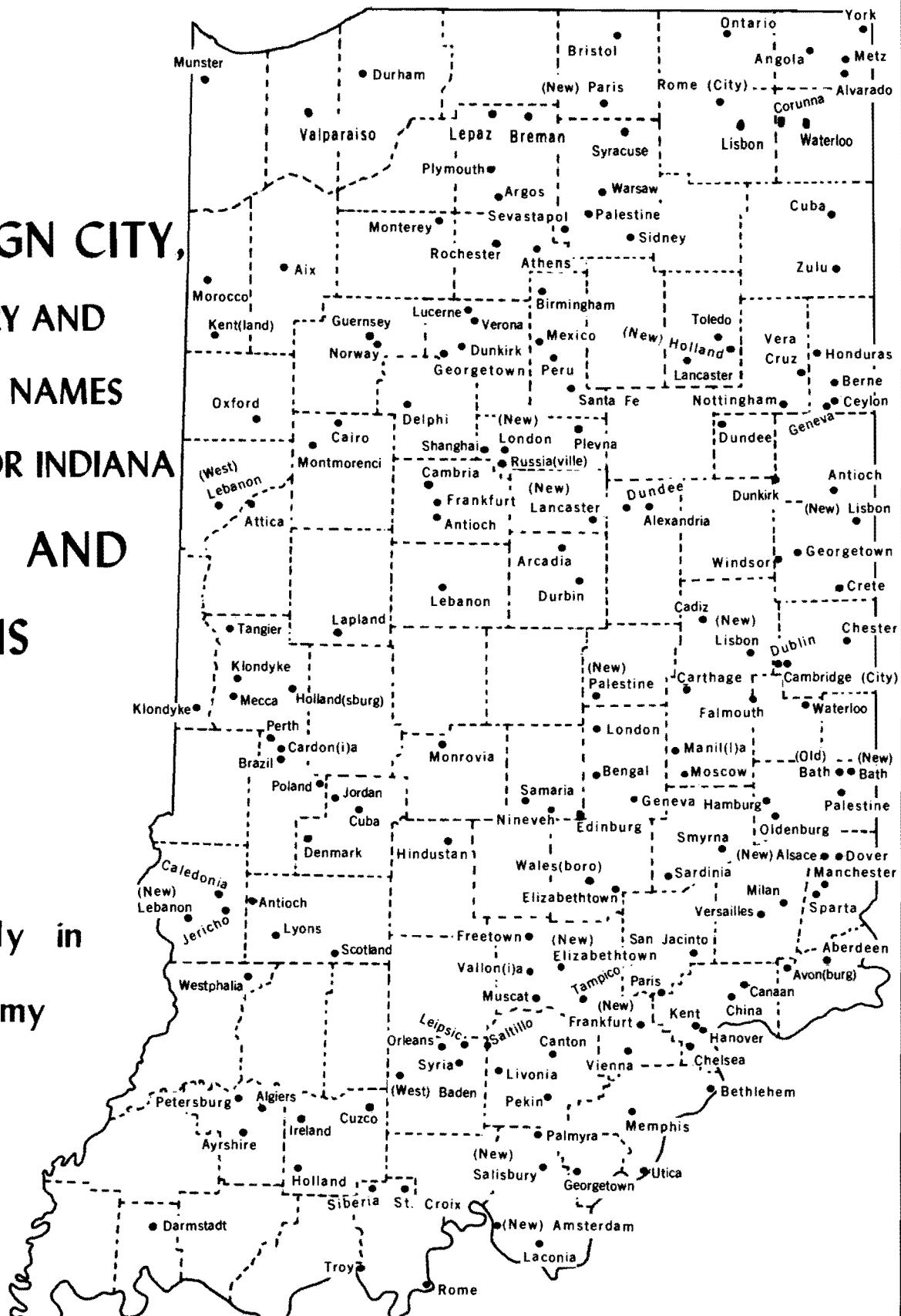
RK

4. CITIES, TRADE, & INDUSTRIES



FOREIGN CITY, COUNTRY AND REGION NAMES USED FOR INDIANA CITIES AND TOWNS

A Study in
Toponymy



URBAN POPULATION CHANGE, 1910-1960 in percent

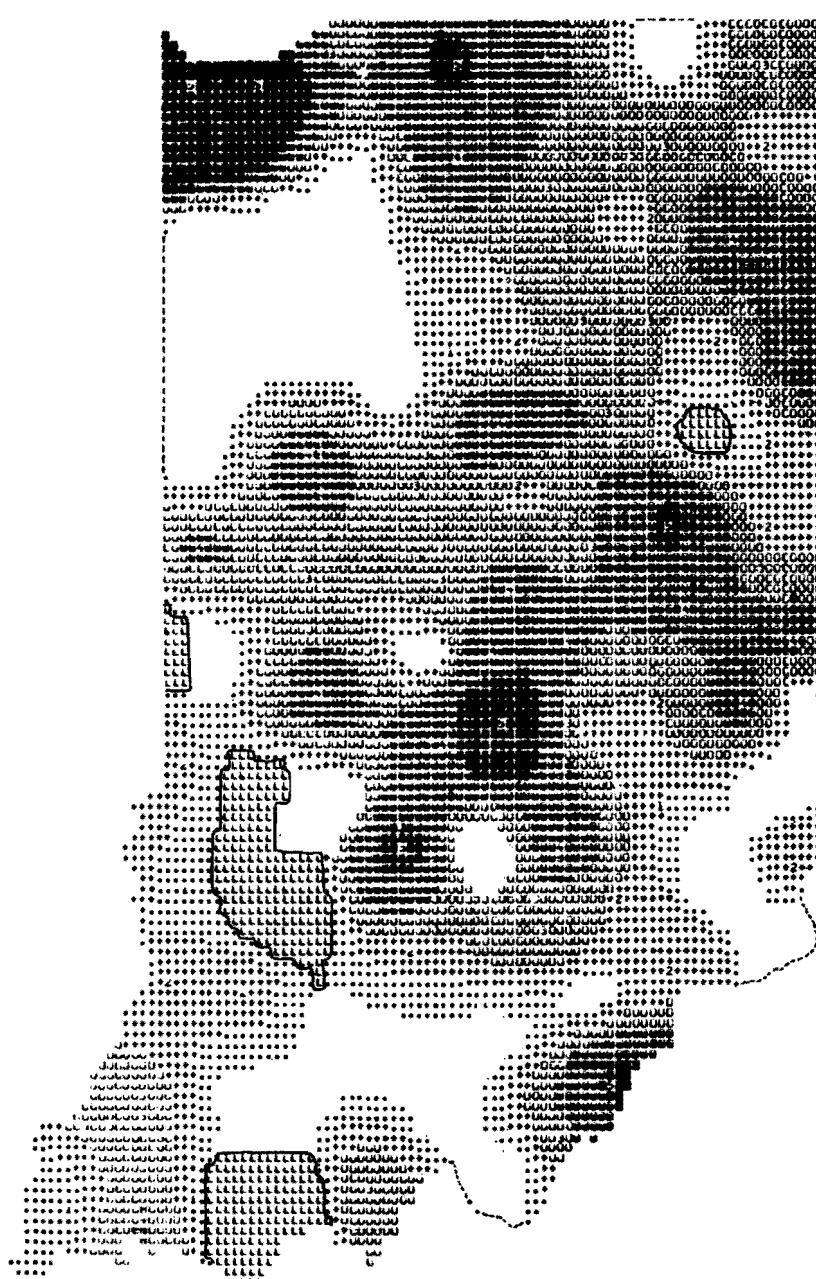
GAIN:

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 200
- 200 or above

LOSS

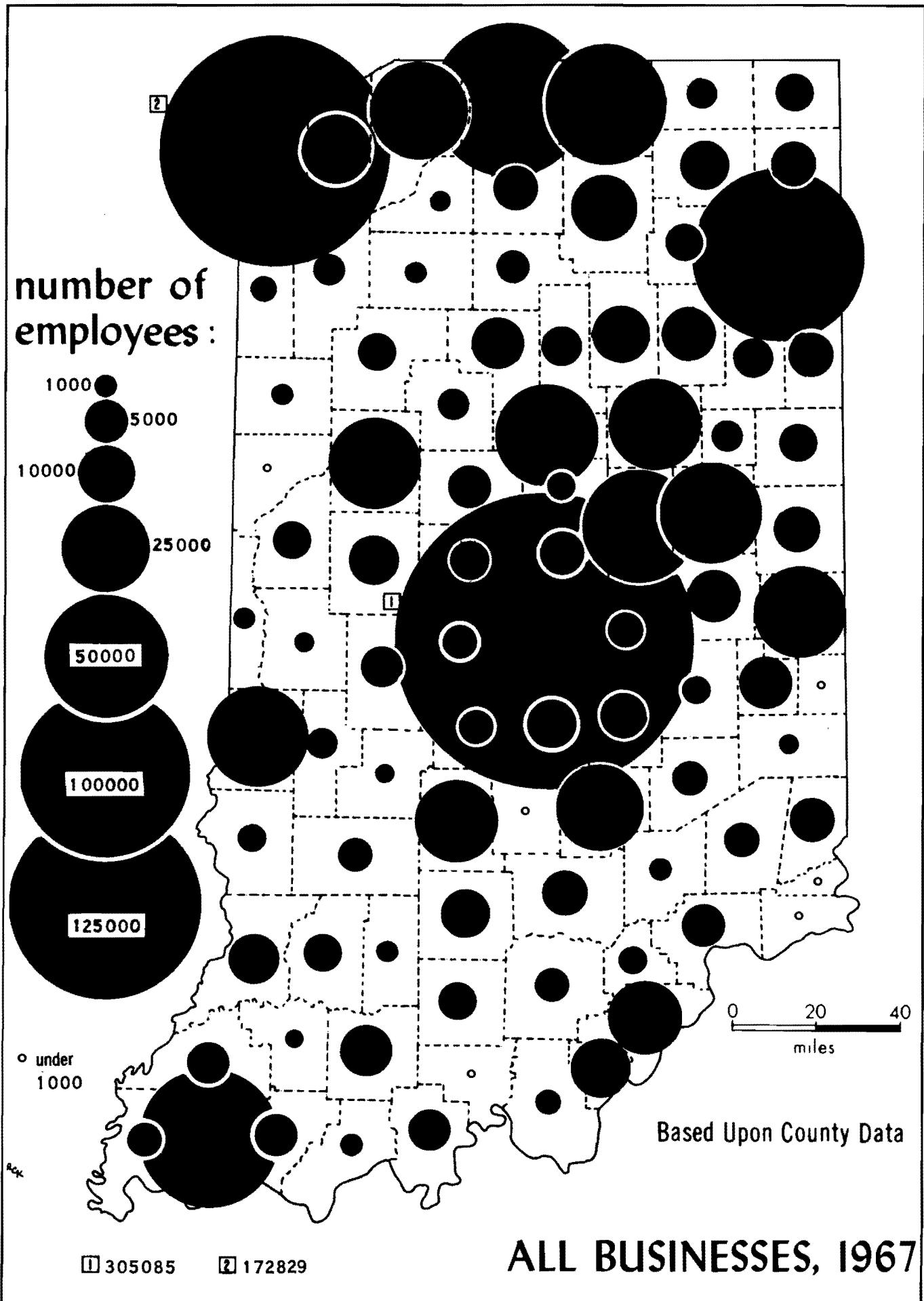
Based Upon County Data

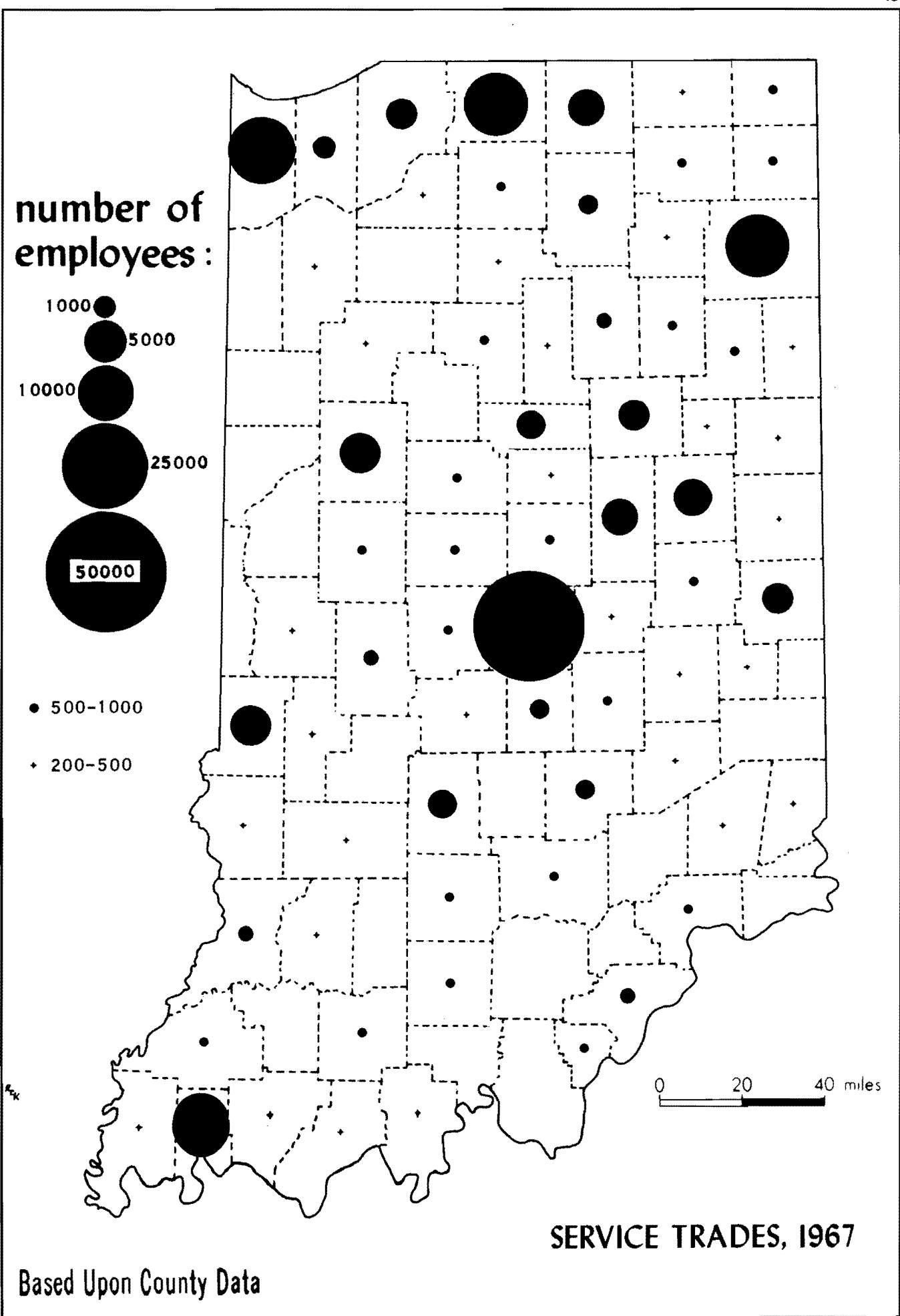
Computer generated
Isopleth map

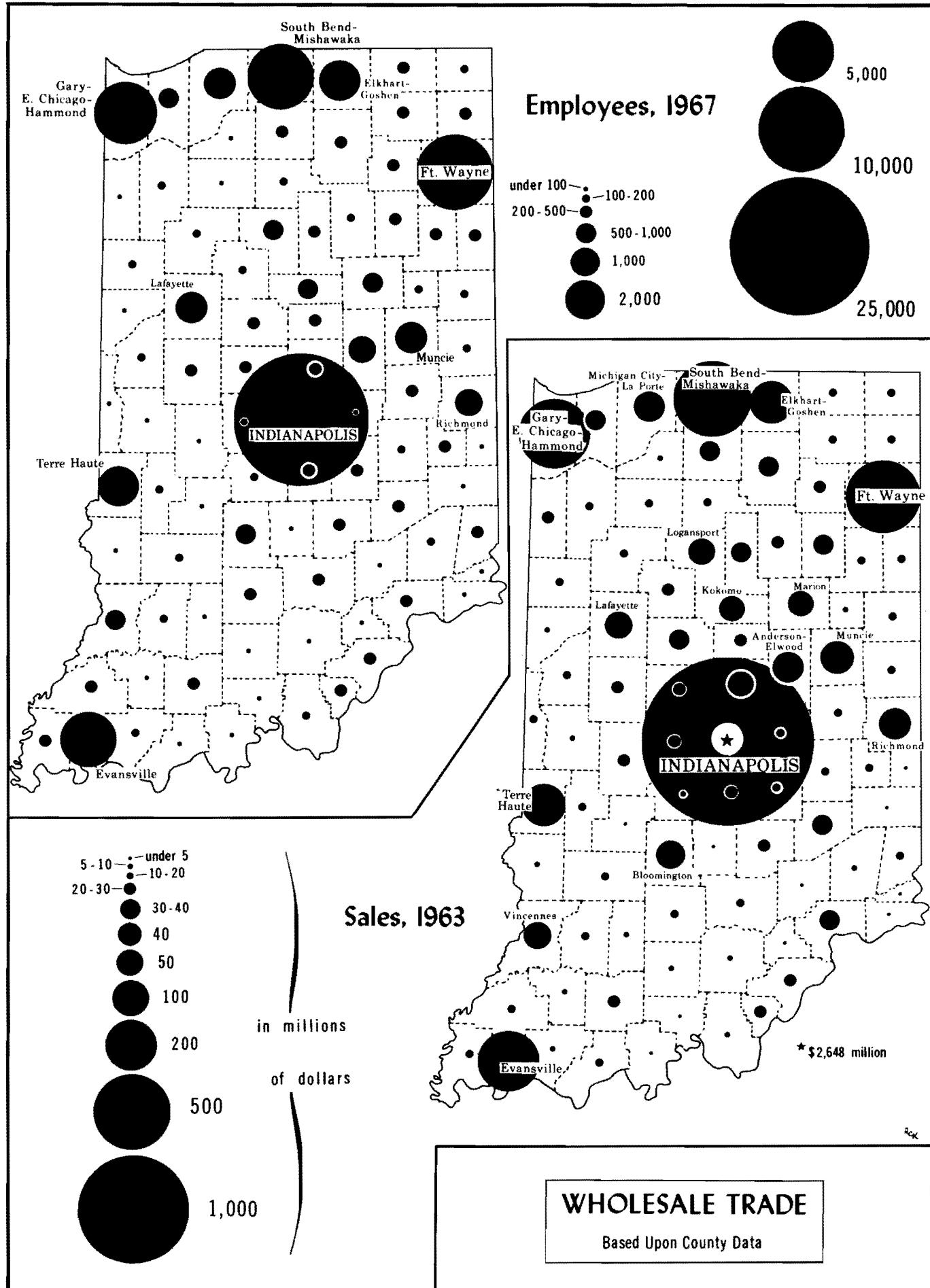


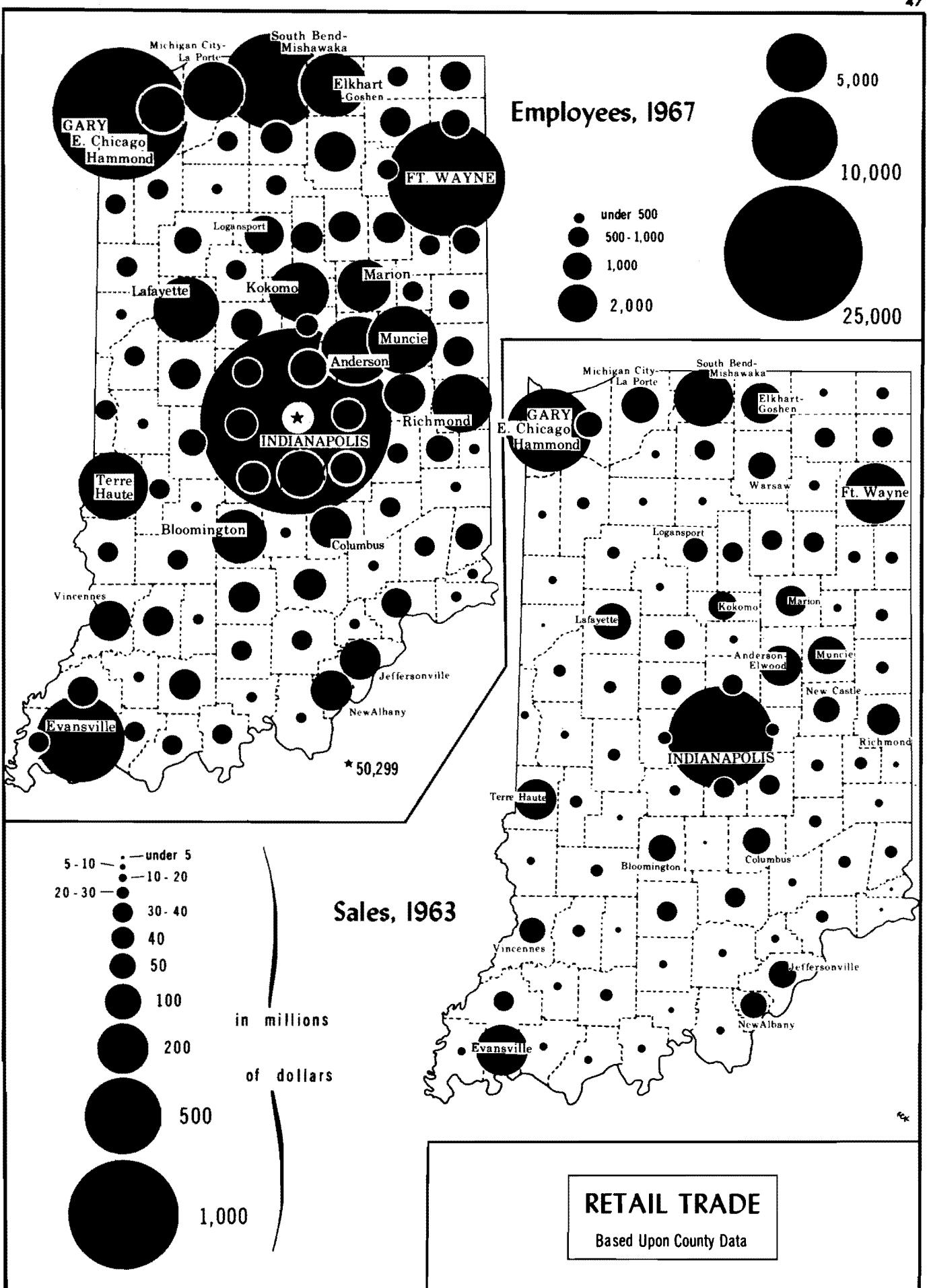
Blank regions indicate areas which
had no urban population in 1910

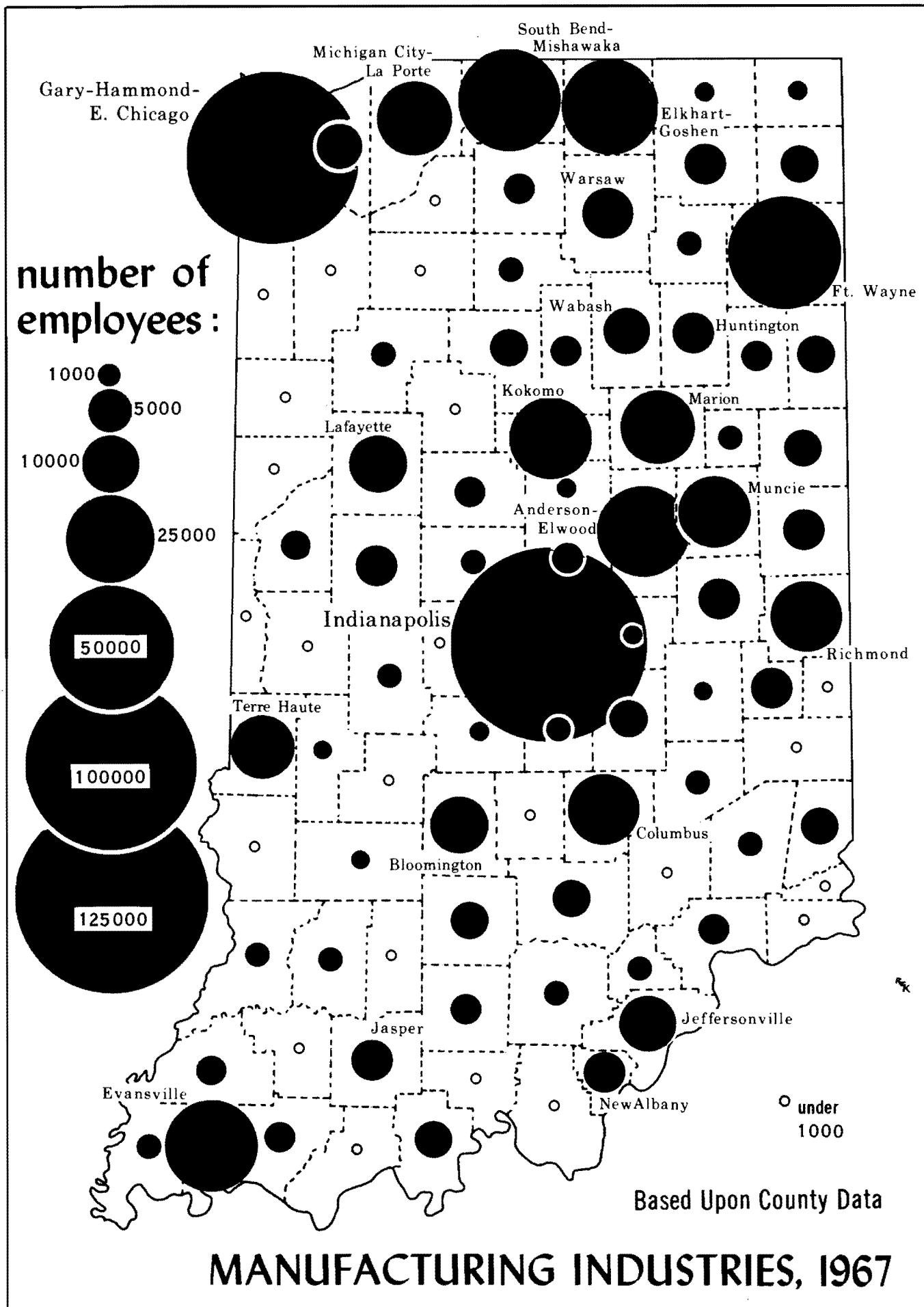
"L" regions indicate areas which
lost urban population, 1910-1960

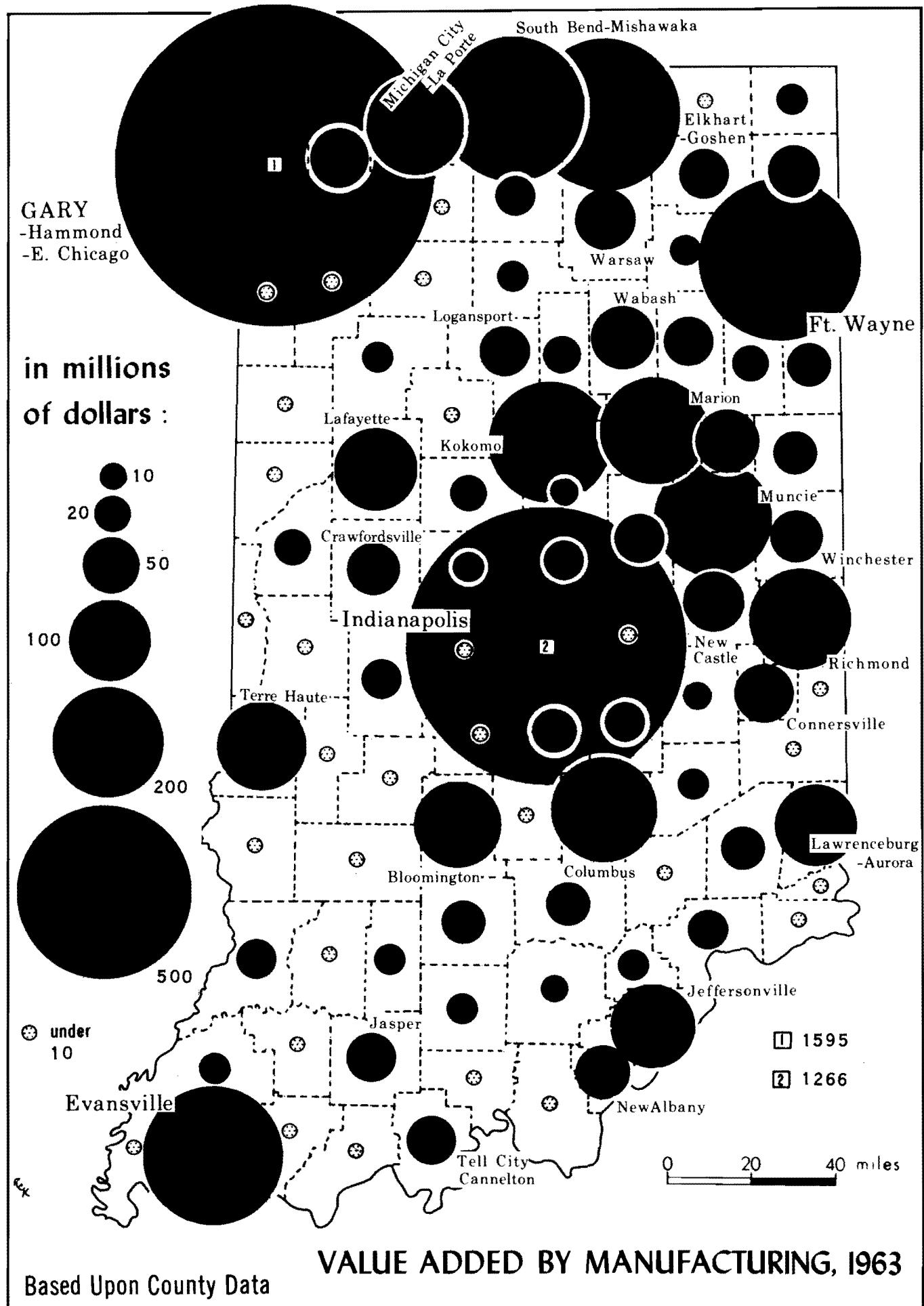


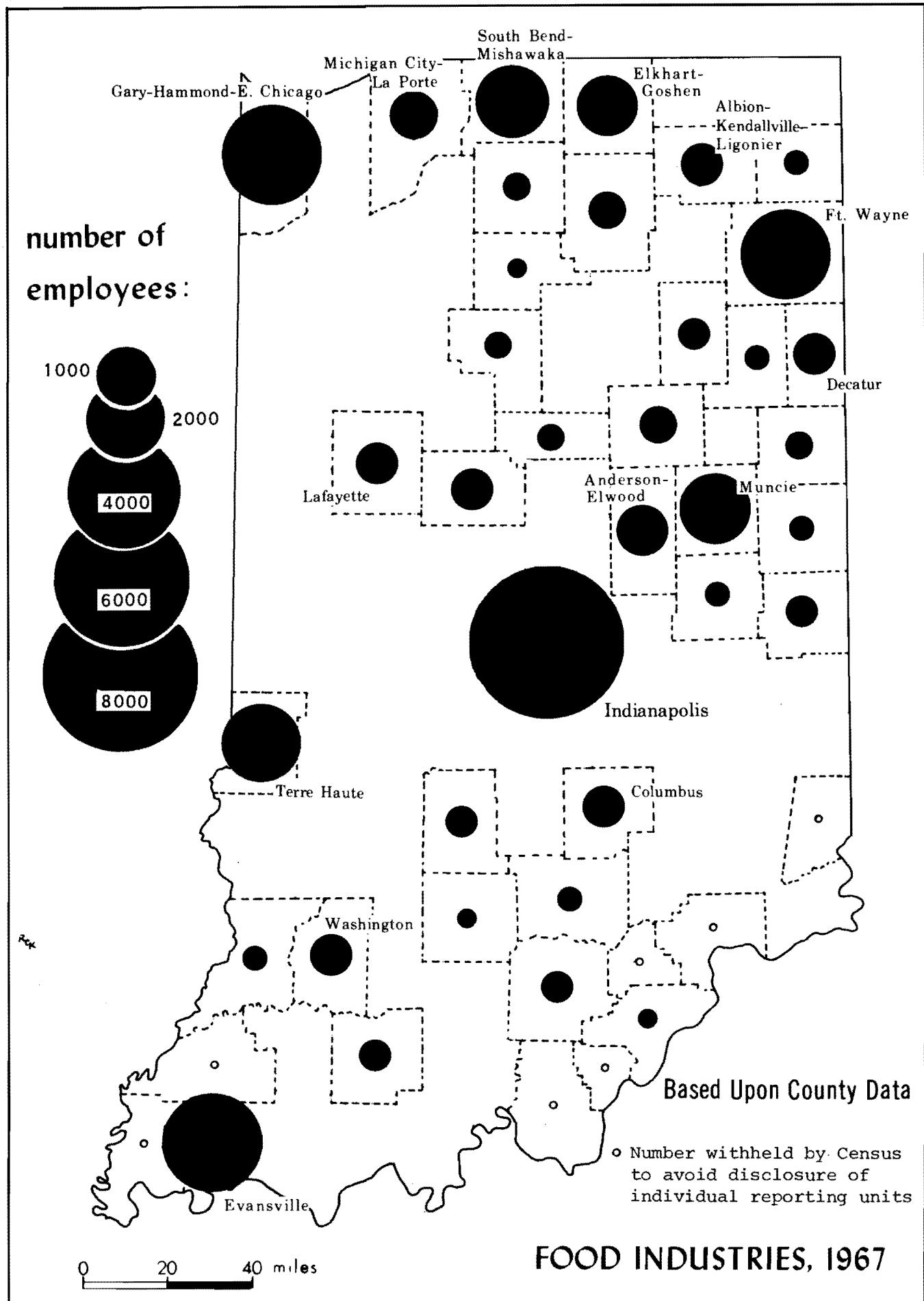


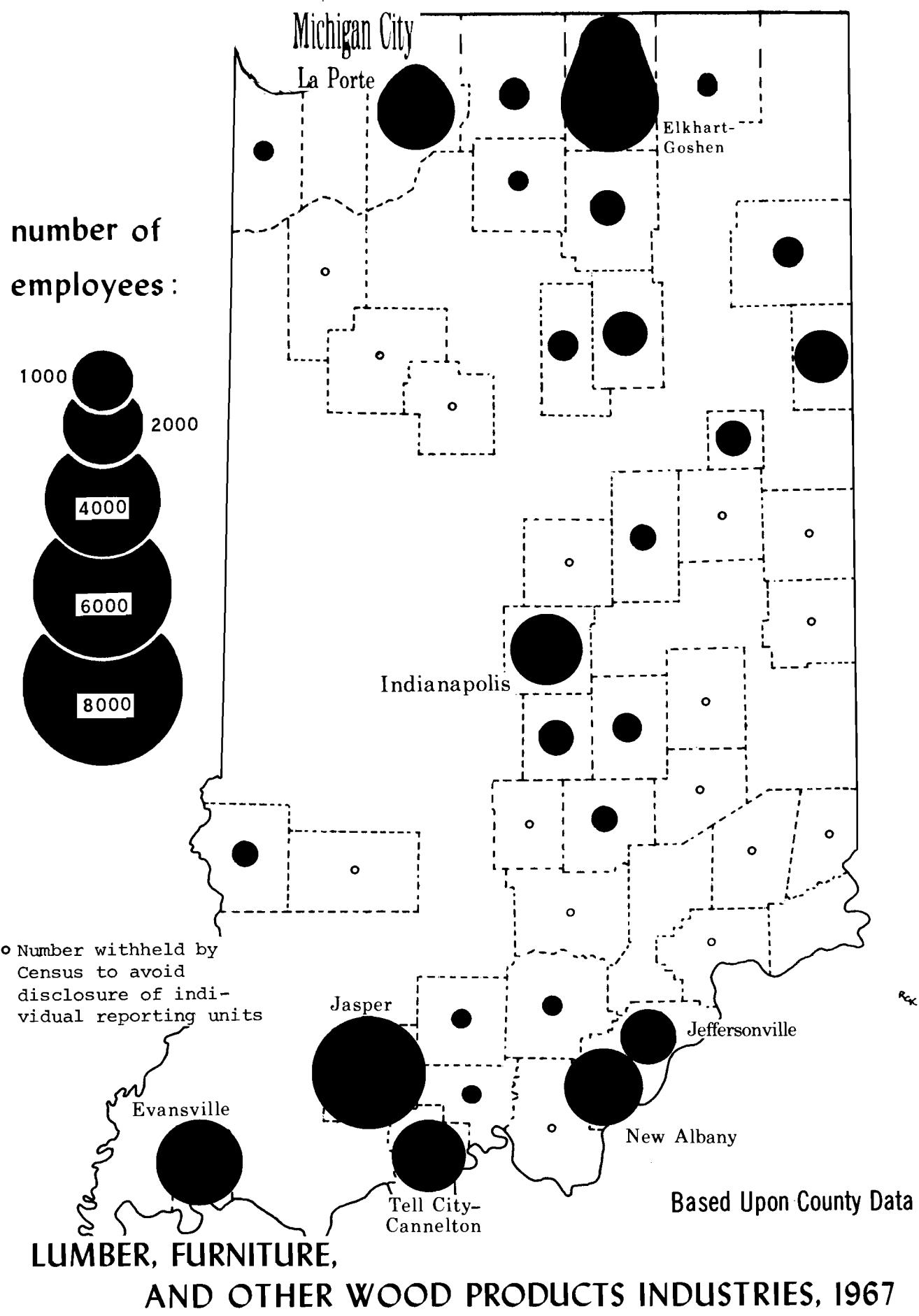


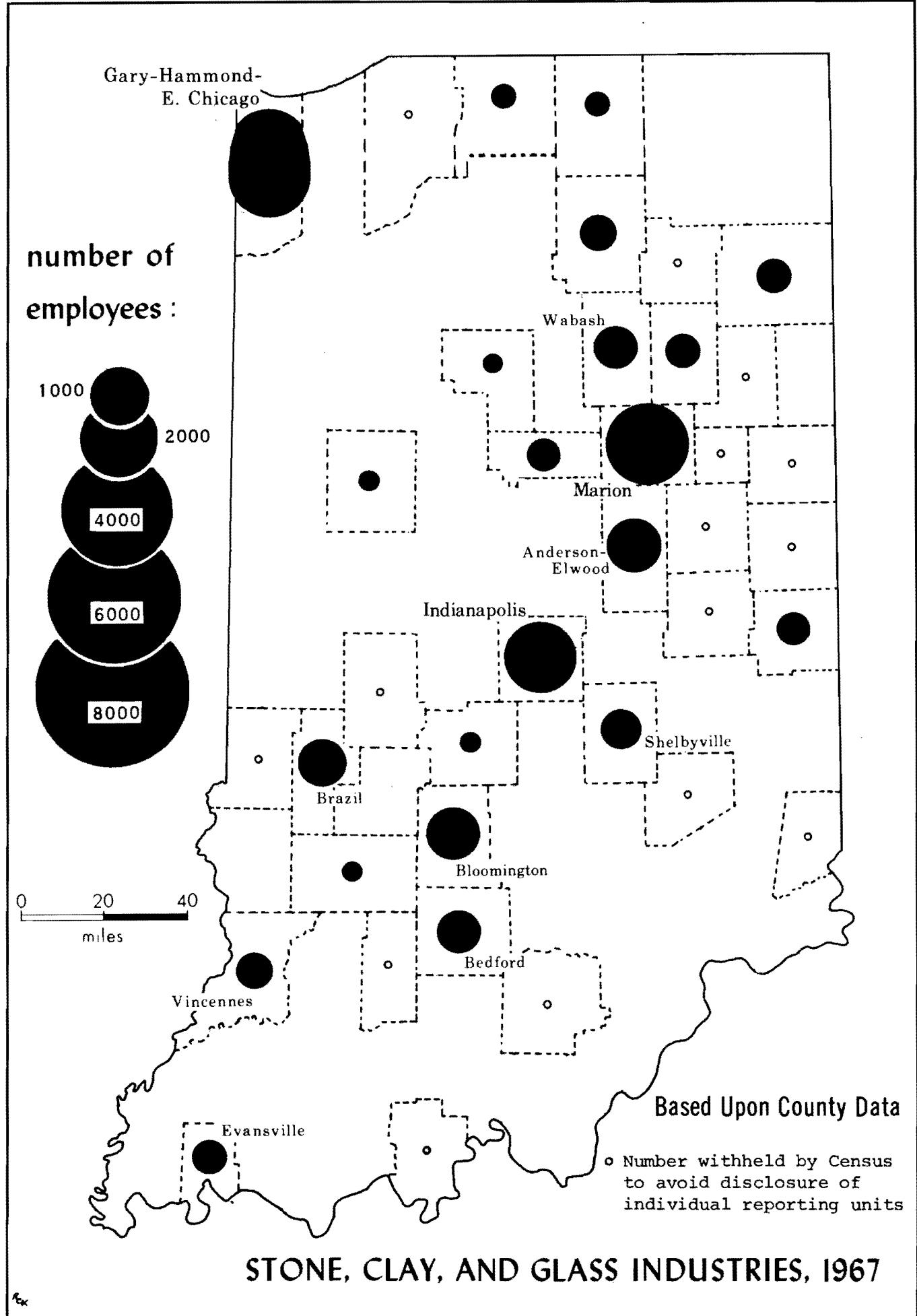


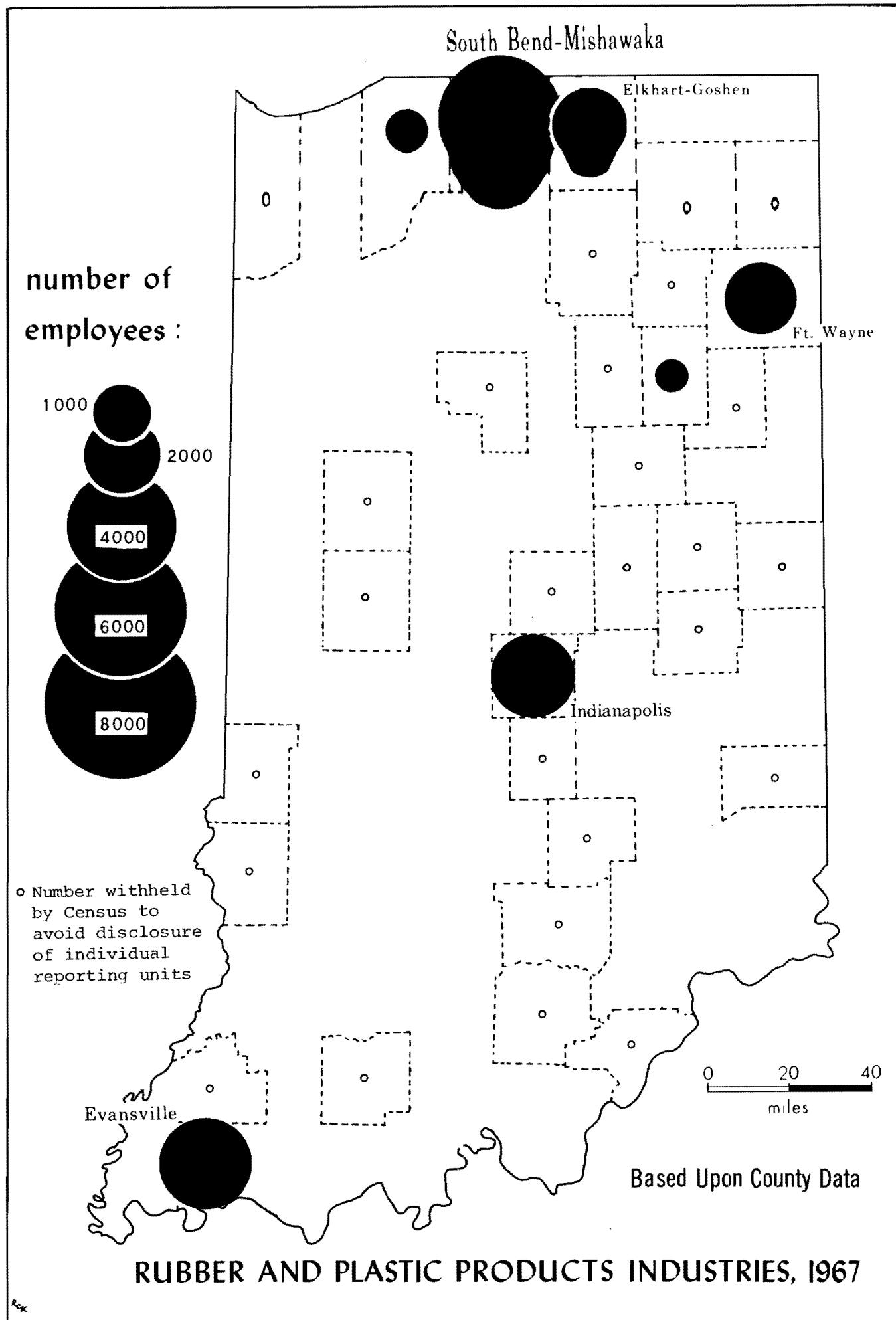


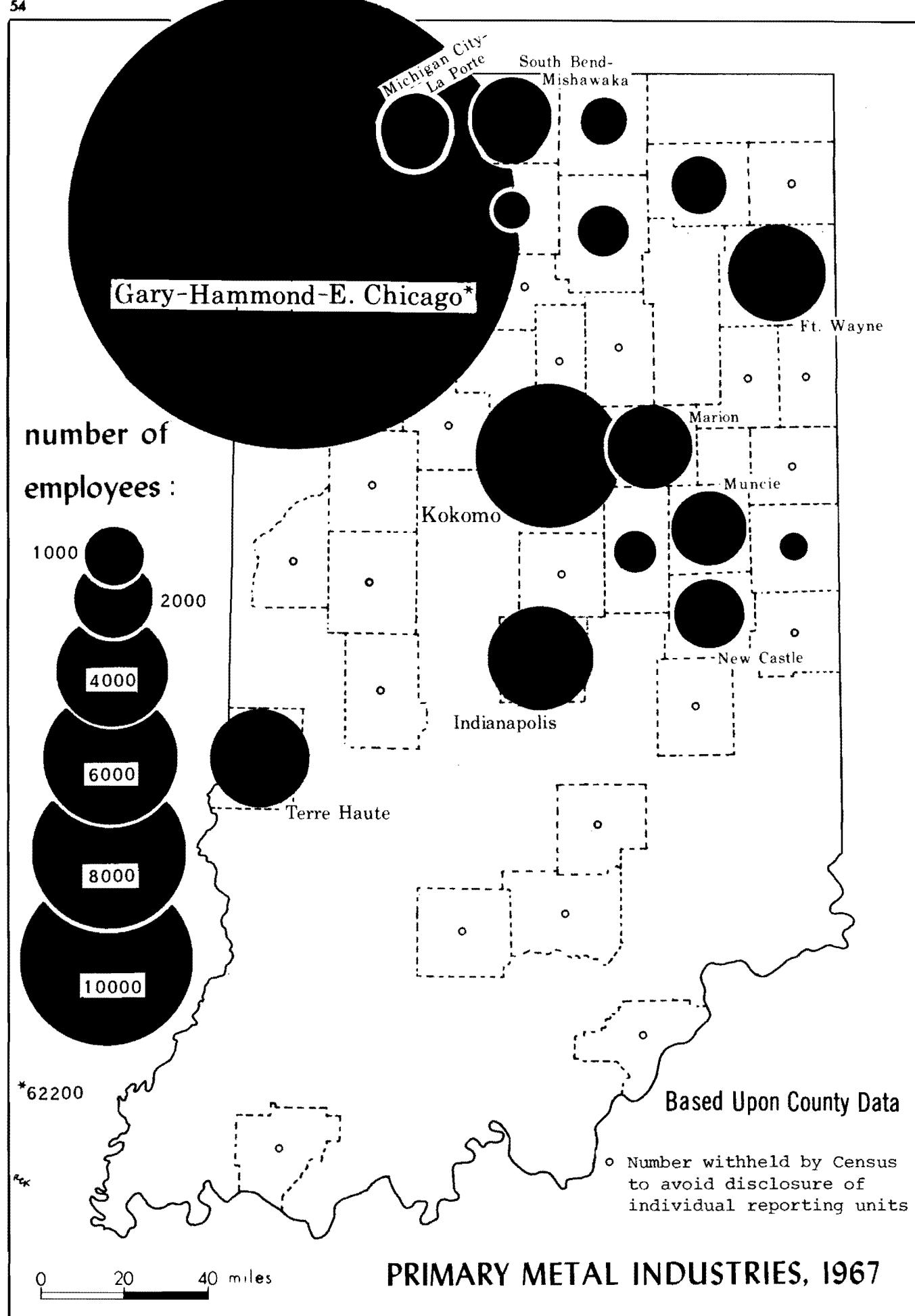


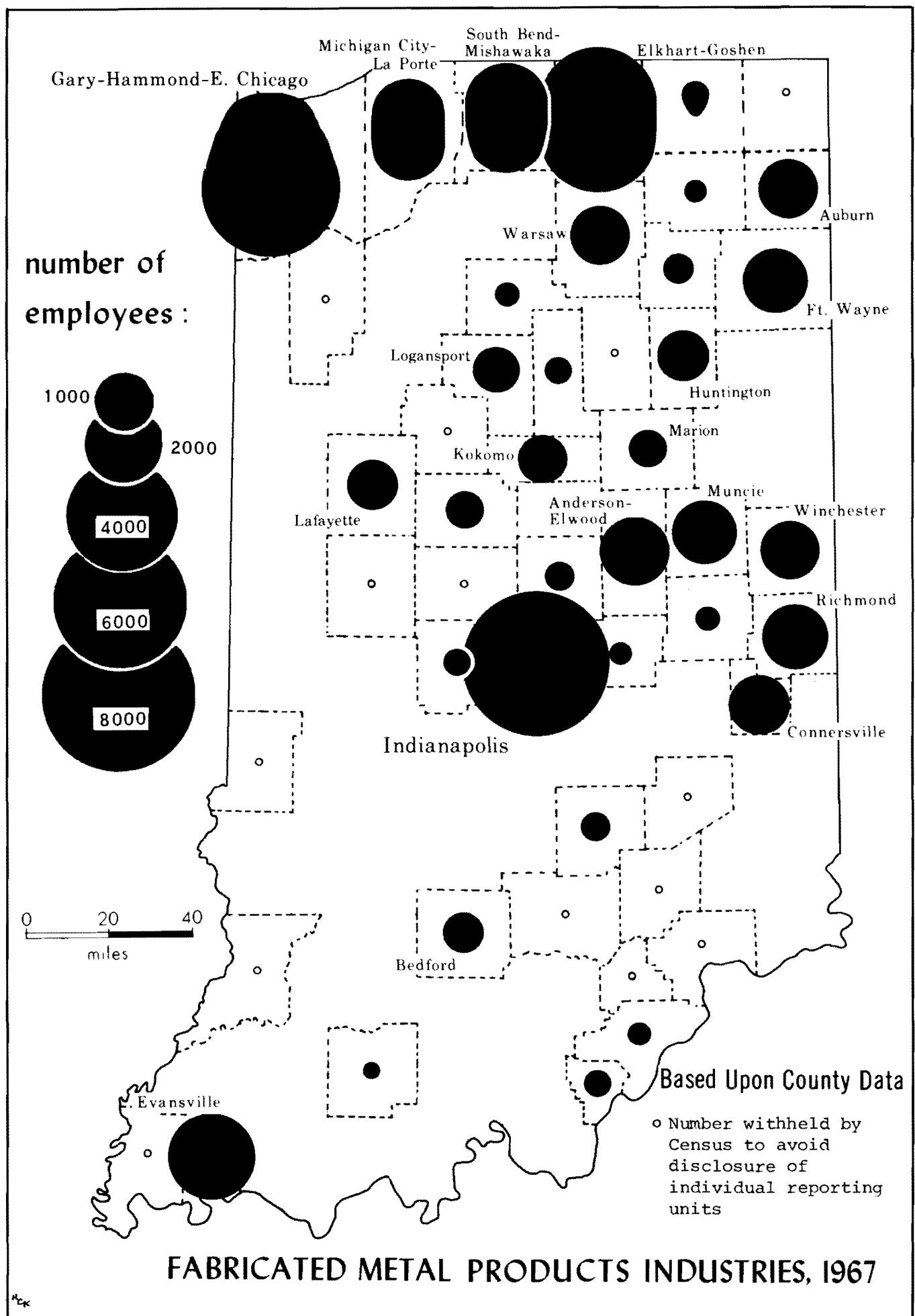


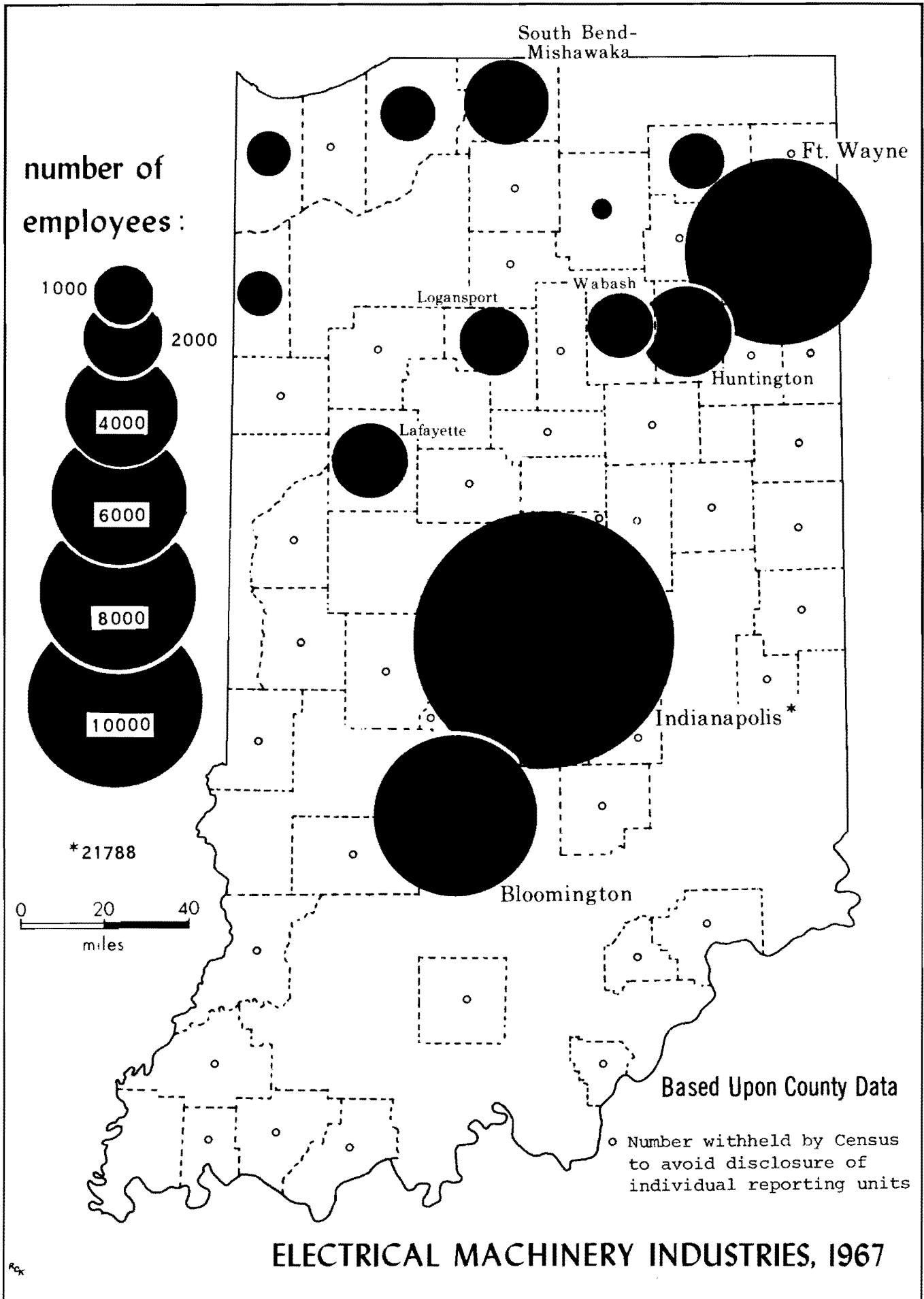


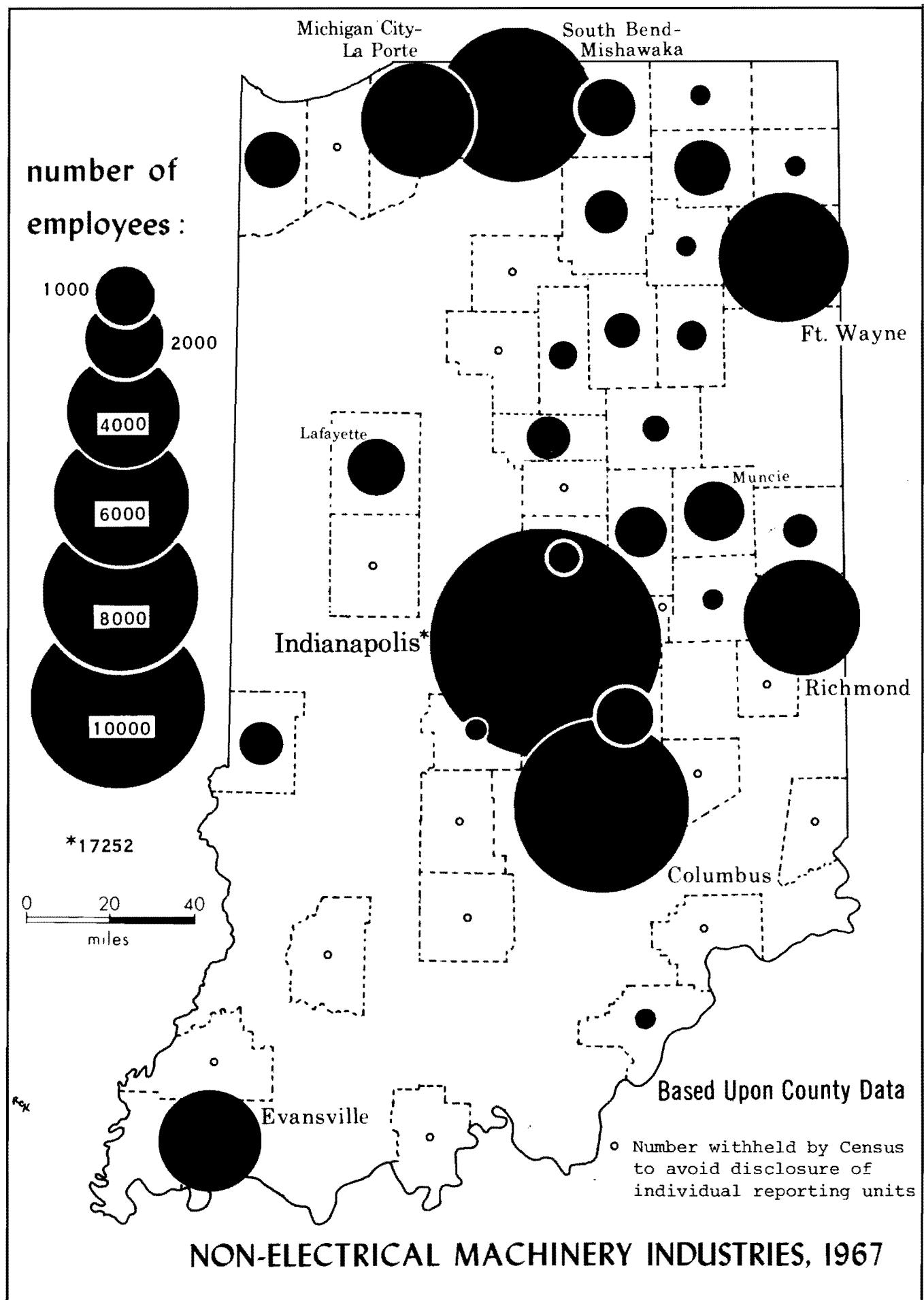


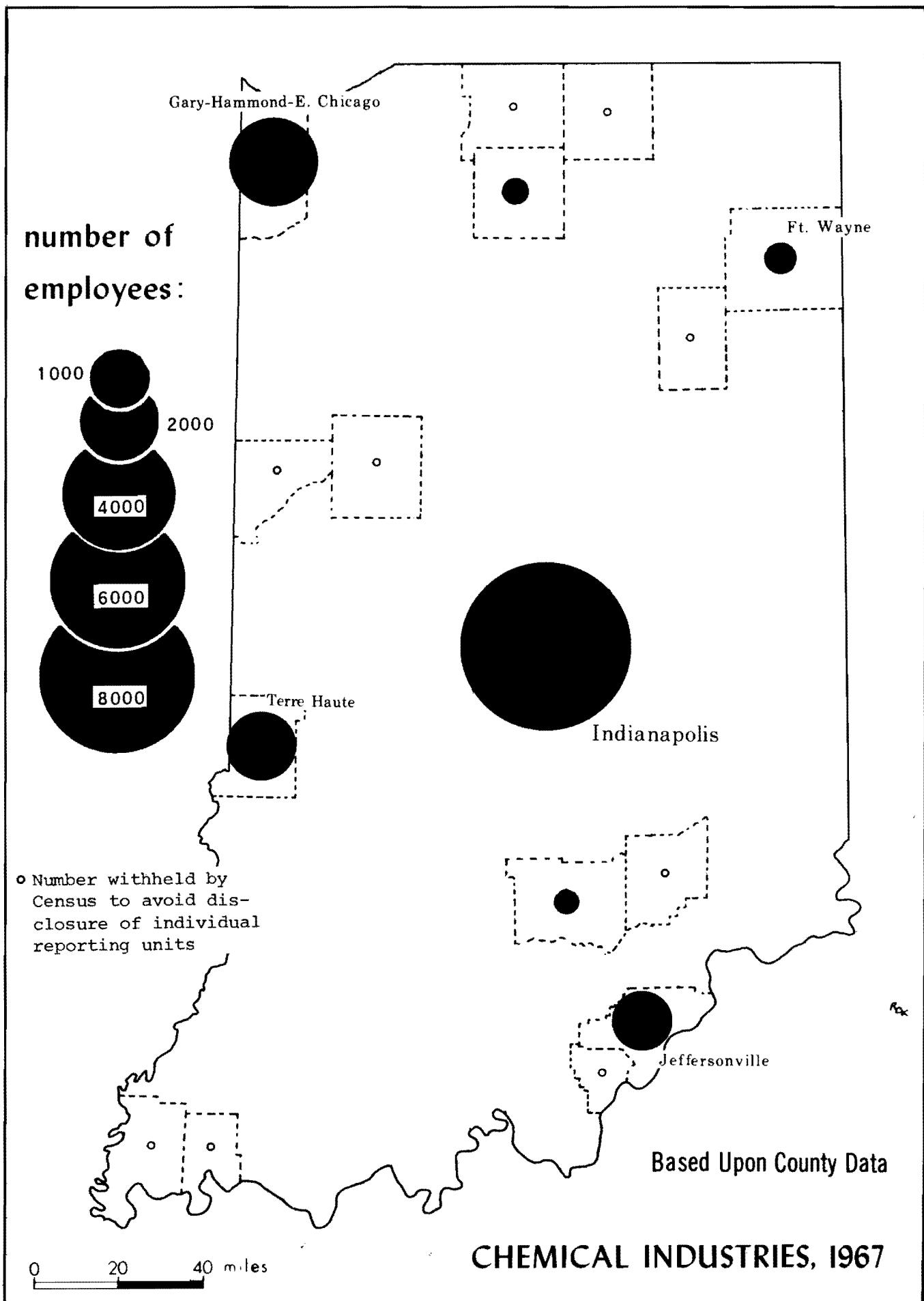


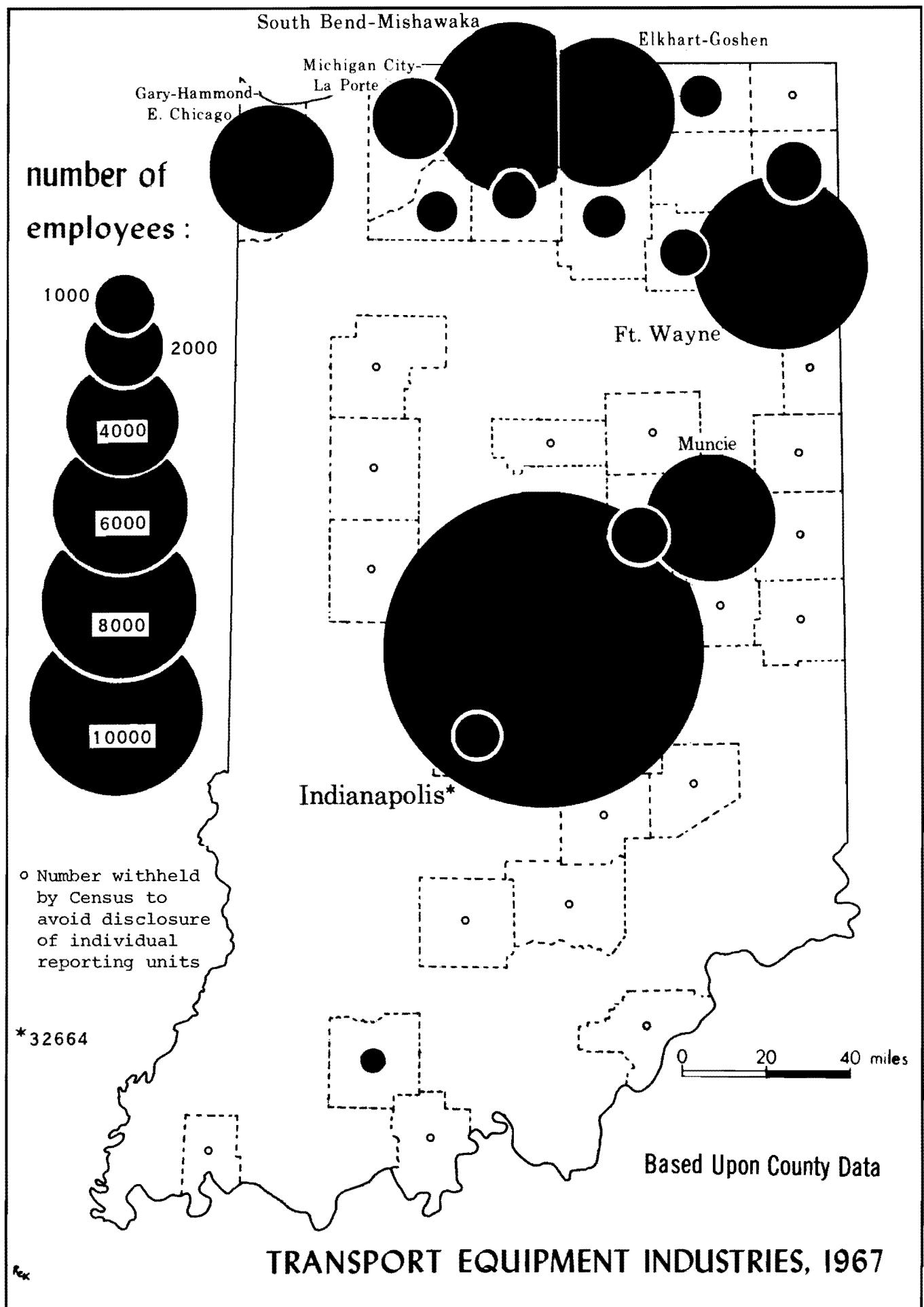








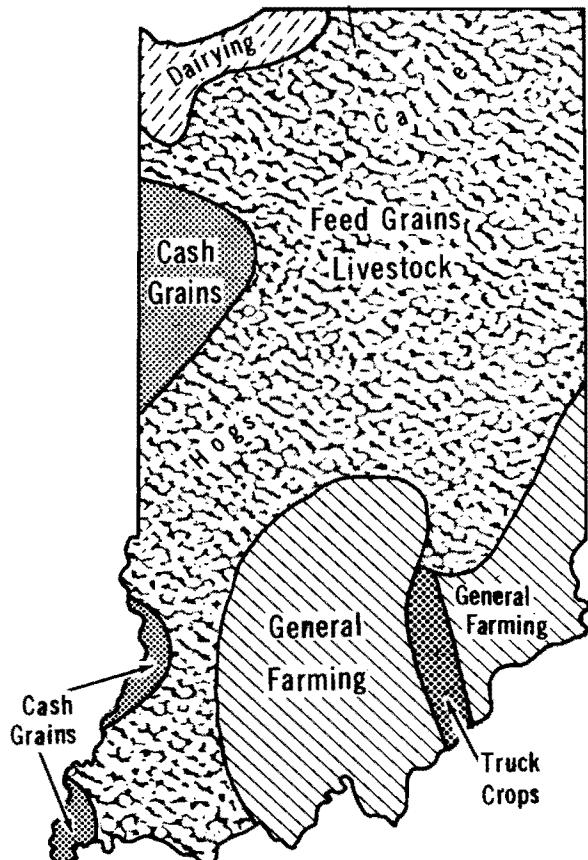




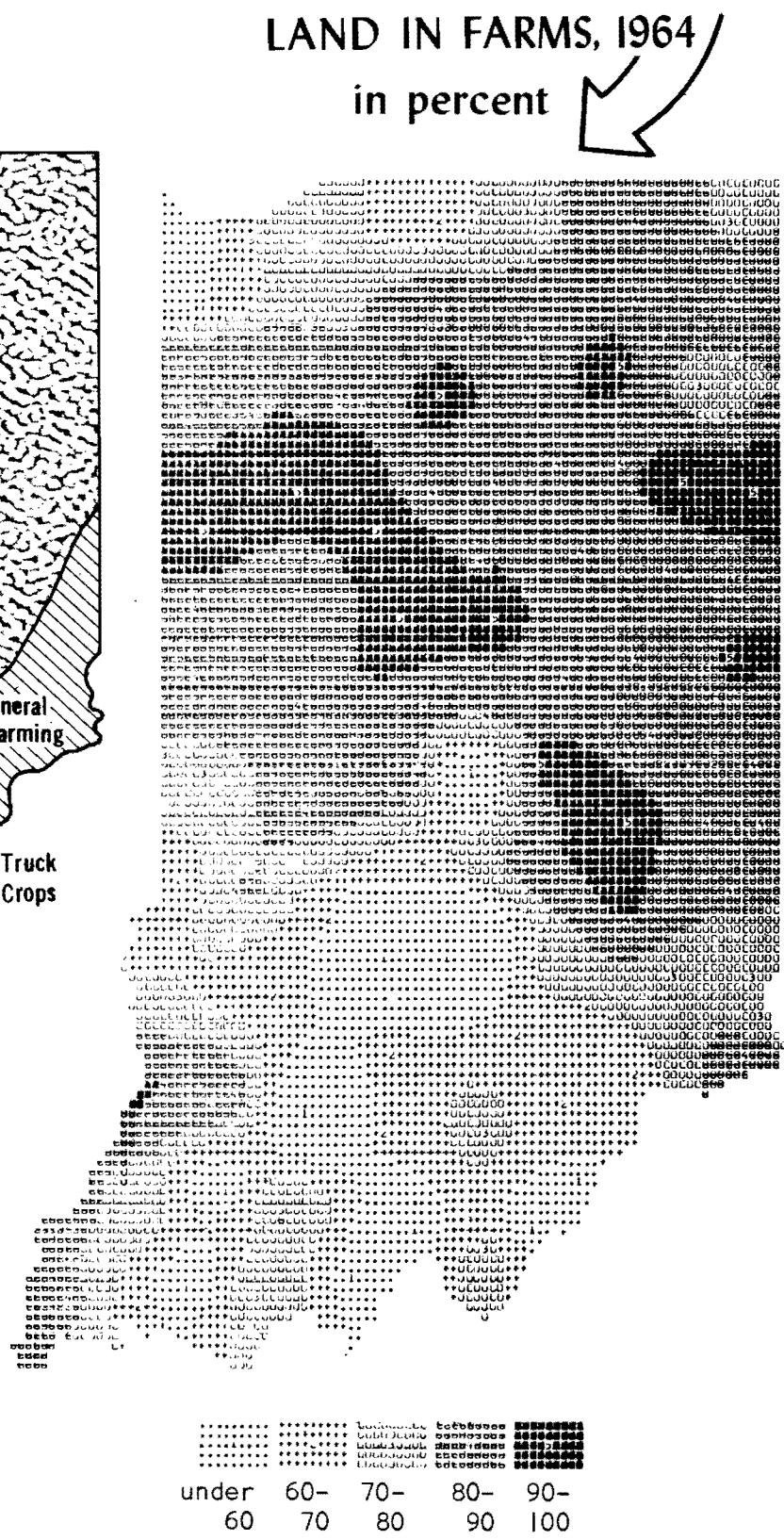
5. FARMING & FARM PRODUCTS

LAND IN FARMS, 1964

in percent



TYPES OF FARMING



Computer generated
Isopleth map



FARM LAND VALUES, 1964

in dollars per acre

under 200- 275- 350- 425 and
200 275 350 425 above

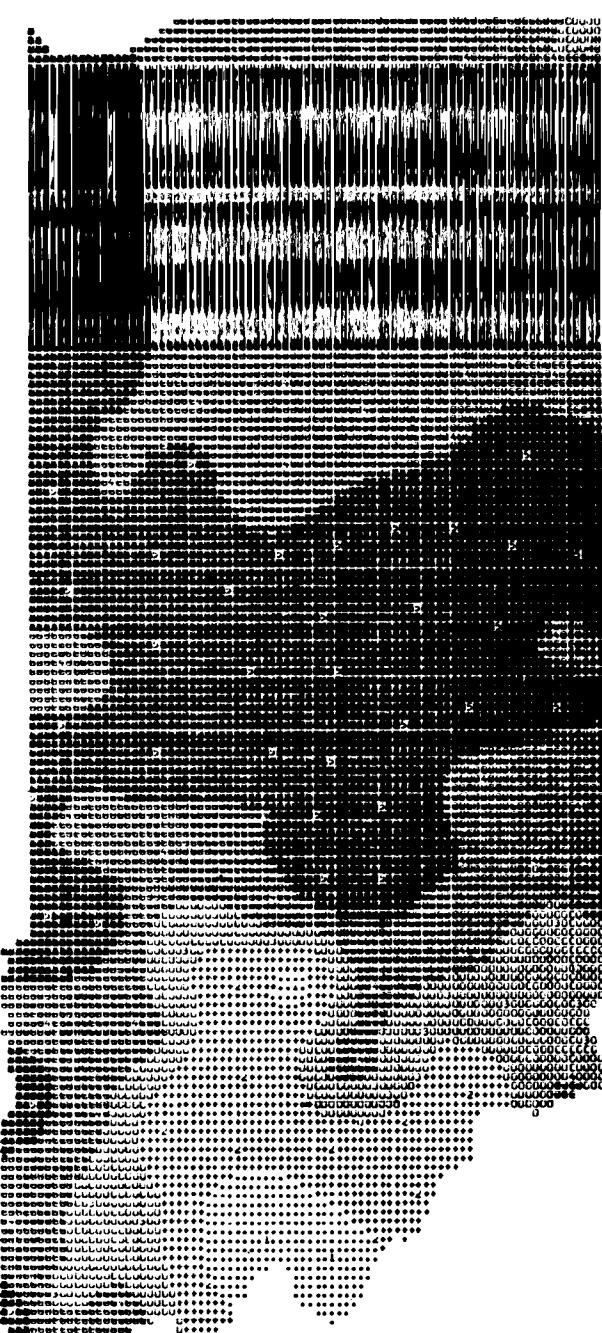


Based Upon County Data

Computer generated
Isopleth map

AK

Computer generated
Isopleth map



under 50- 60- 70- 80 and
50 60 70 80 above

HARVESTED CROPLAND, 1964

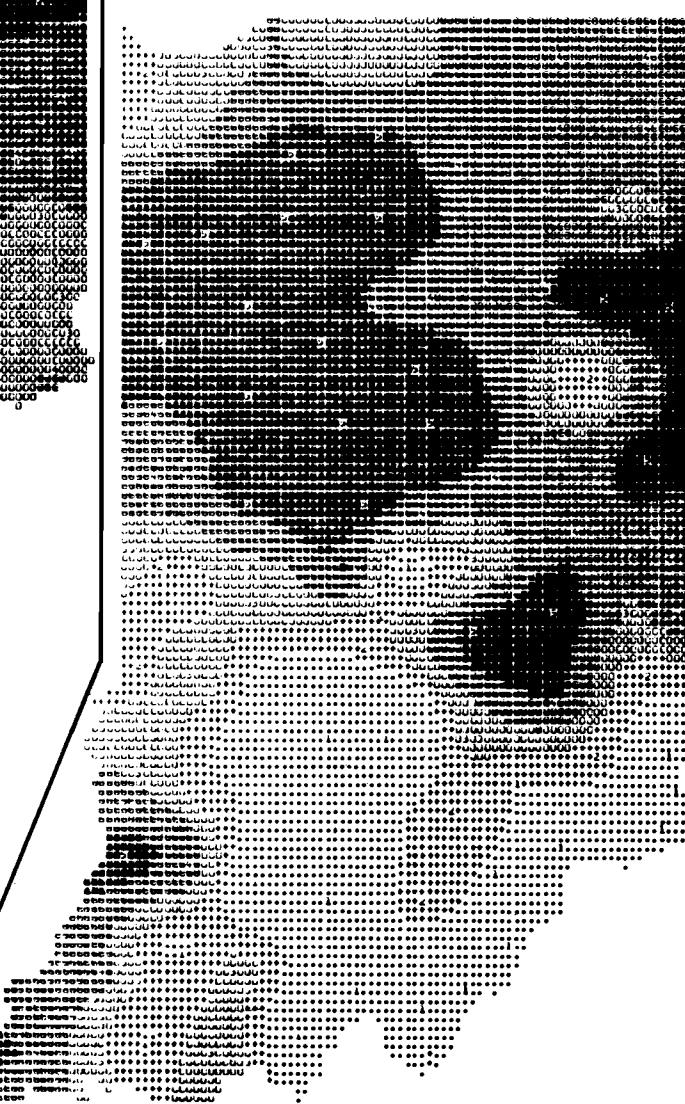
as a percent of all cropland

Based Upon County Data

CROPLAND, 1964

as a percent of total land

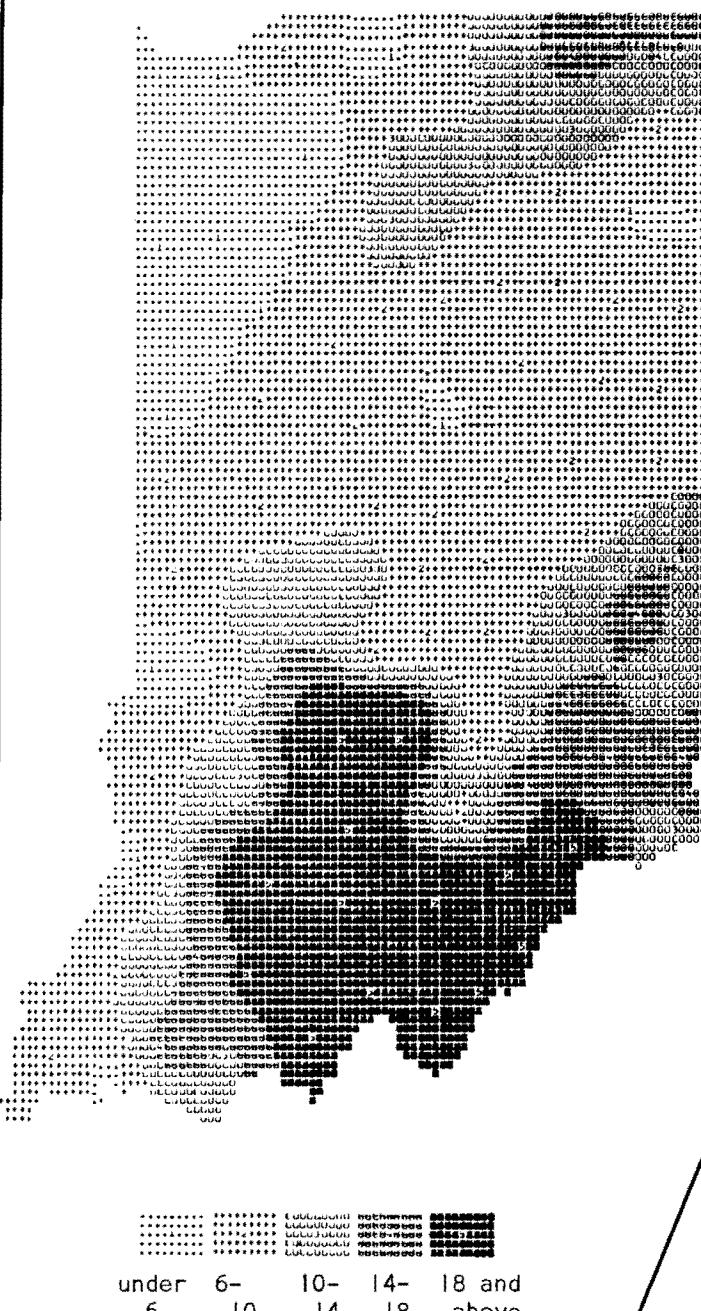
under 40- 50- 60- 60- 70 and
40 50 60 70 above



Computer generated
Isopleth map

RK

Computer generated
isopleth map



FIELD TRACTORS, 1964

per 1,000 acres of all cropland

Legend:
 under 6
 10-14
 14-16
 16 and above

PASTURED CROPLAND, 1964
as a percent of all cropland

Based Upon County Data

Computer generated
isopleth map

8K

Computer generated
Isopleth map



under 35- 40- 45- 50 and
35 40 45 50 above

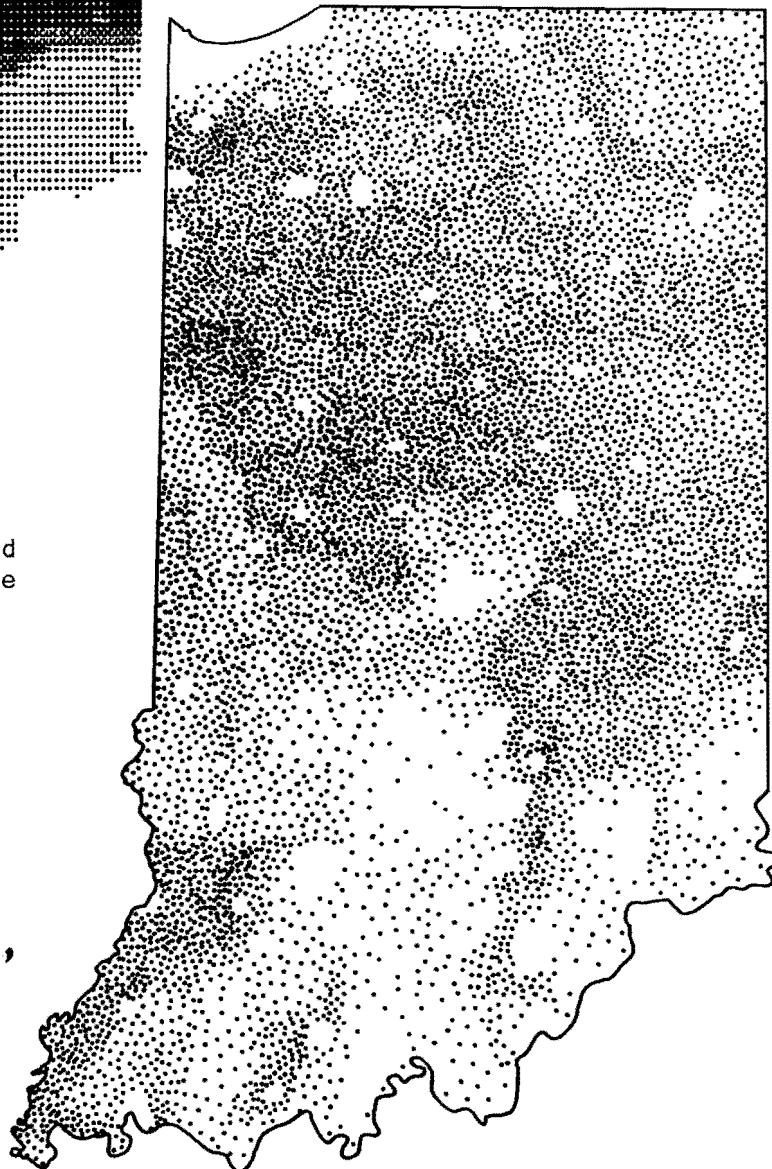
[based on county data]

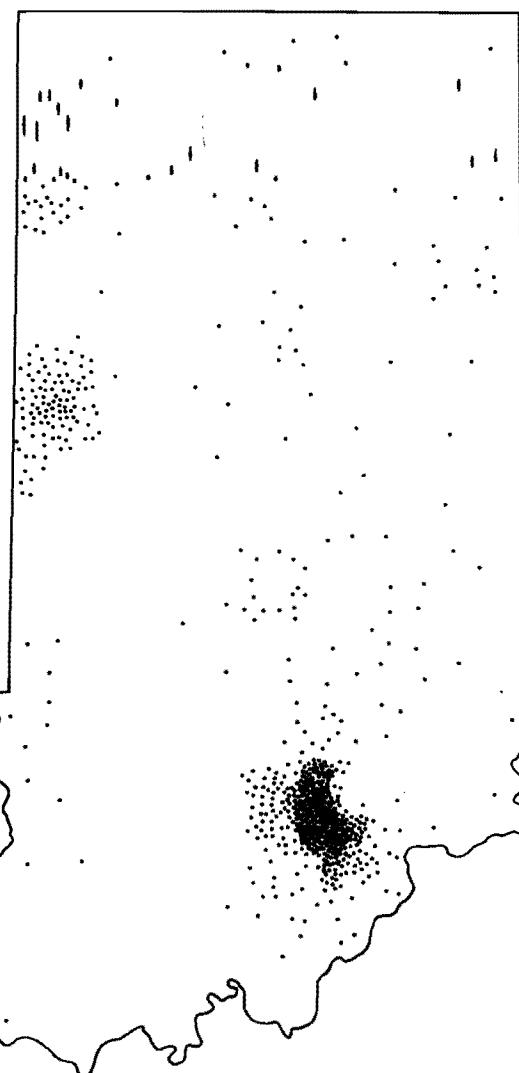
As a Percent
of all Cropland,
1964

CORN

Acreage, 1964

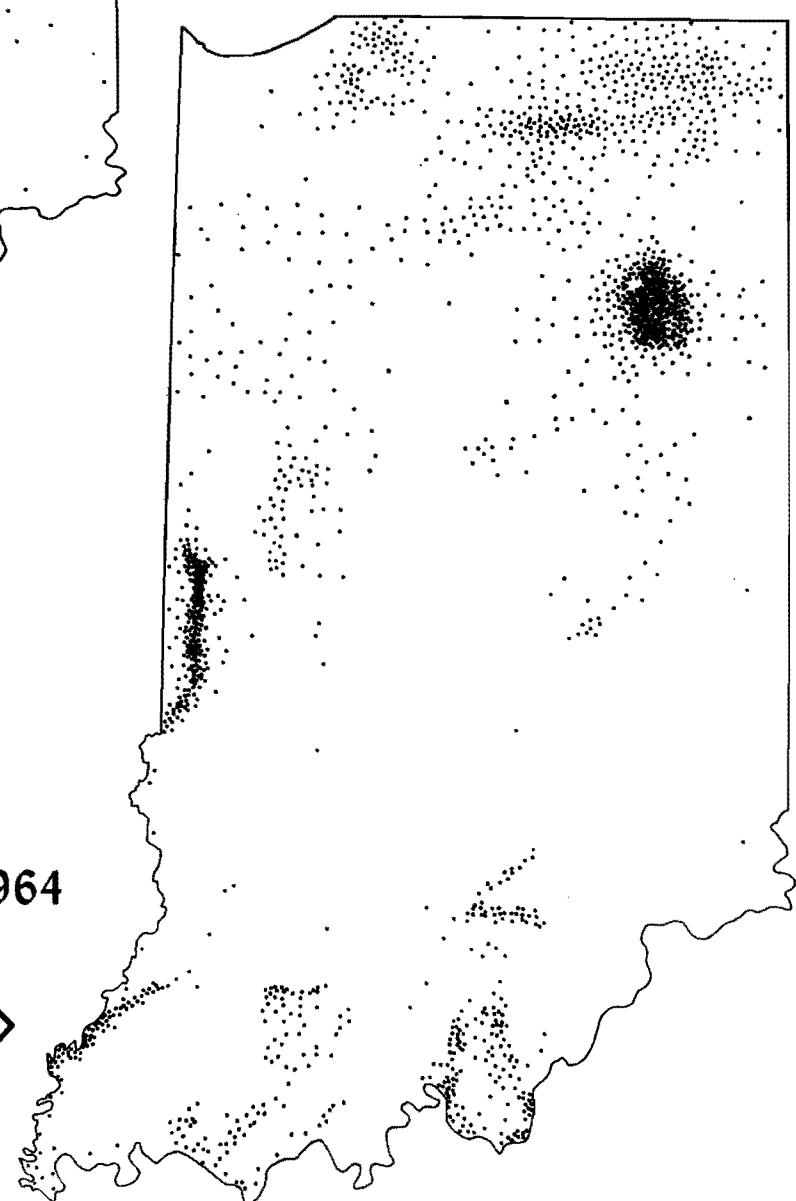
EACH DOT REPRESENTS
500 ACRES





SWEET CORN
ACREAGE, 1964

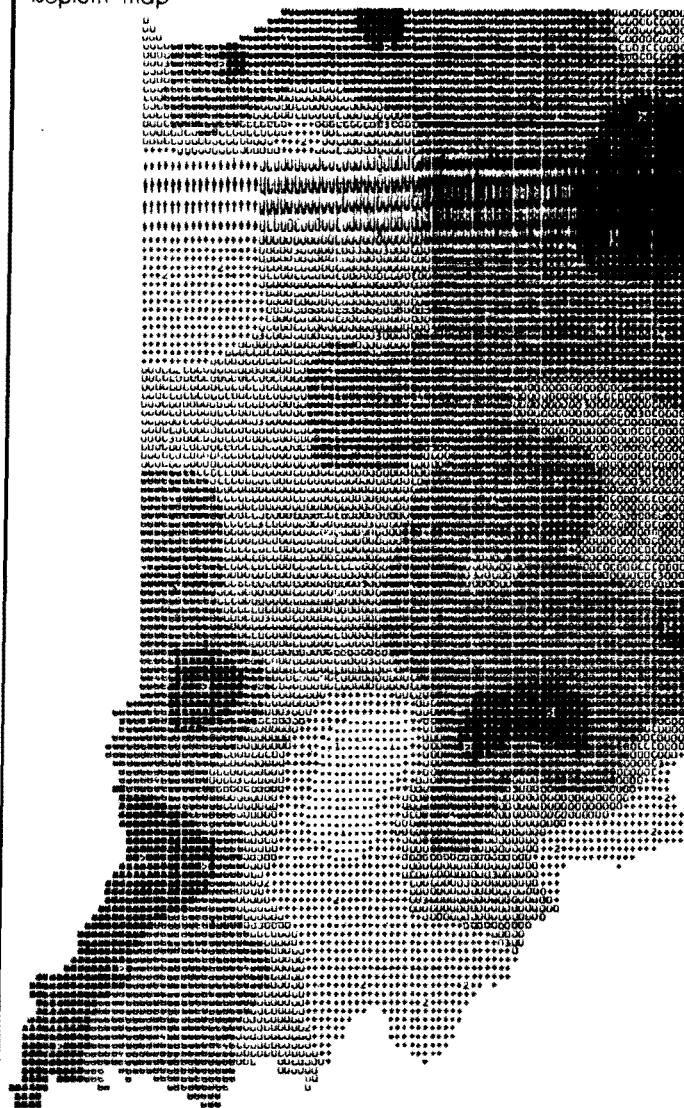
EACH DOT REPRESENTS
20 ACRES



POPCORN ACREAGE, 1964

EACH DOT REPRESENTS
20 ACRES

Computer generated
Isopleth map



under 4-8 8-12 12-16 16 and above
4 12 16 above

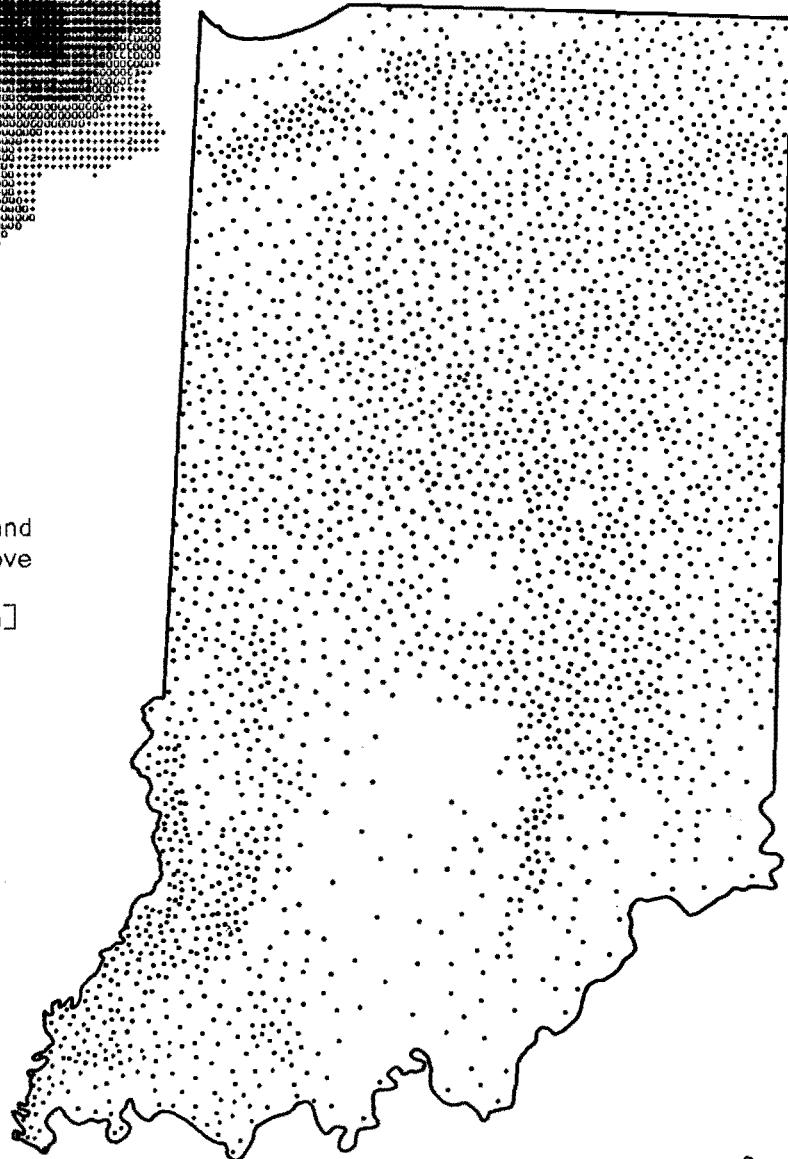
[based on county data]

As a Percent
of all Cropland,
1964

WHEAT

Acreage, 1964

EACH DOT REPRESENTS
500 ACRES



Computer generated
Isopleth map

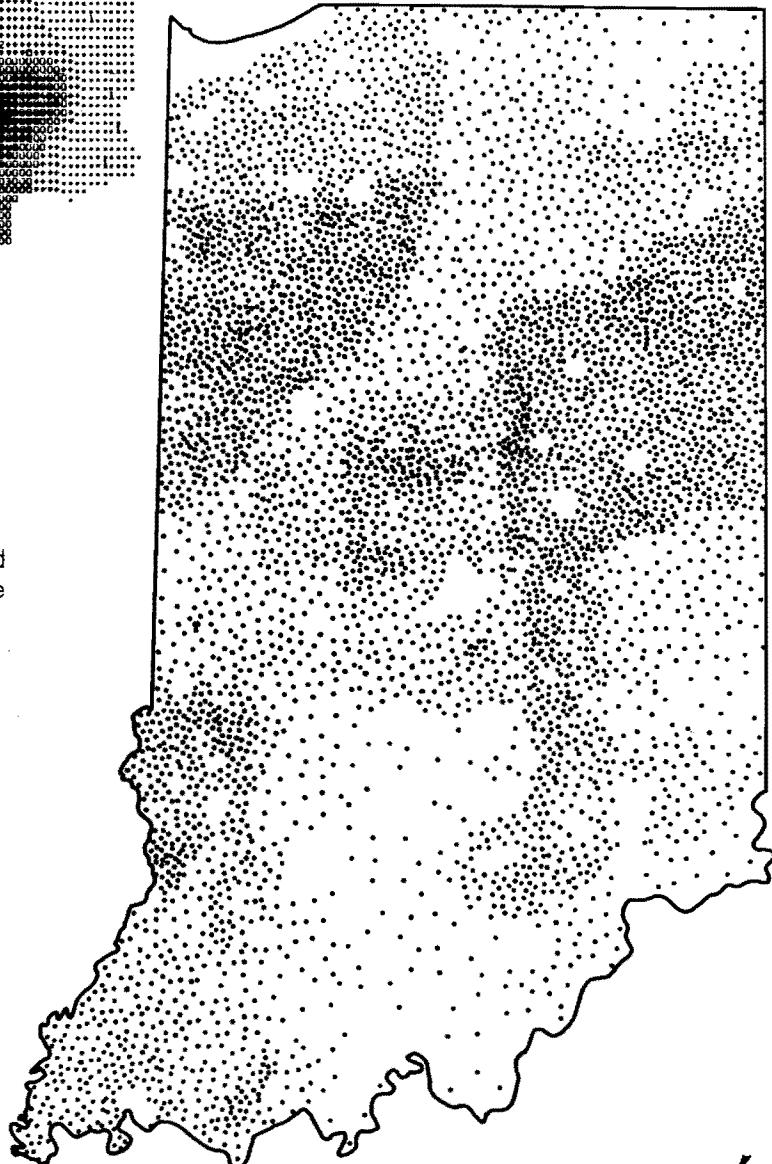


As a Percent
of all Cropland,
1964

SOYBEANS

Acreage, 1964

EACH DOT REPRESENTS
500 ACRES



under 15- 20- 25- 30 and
15 20 25 30 above

[based on county data]

Computer generated
isopleth map



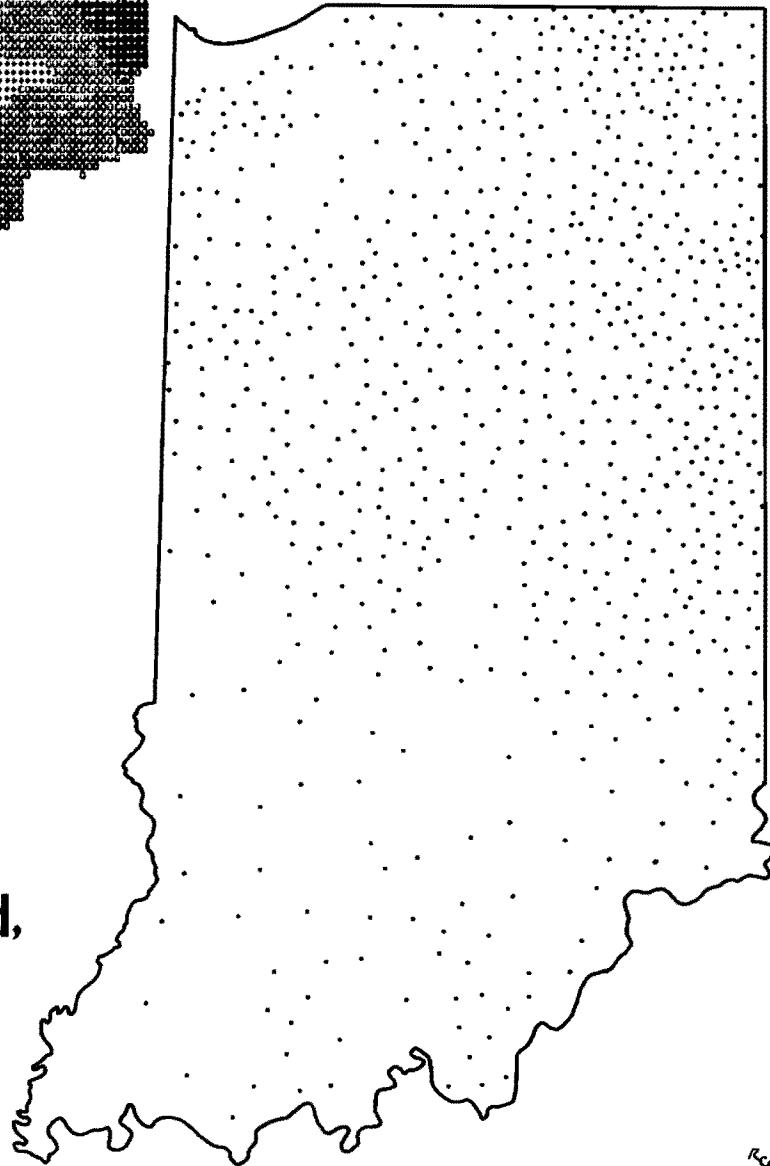
[based on county data]

As a Percent
of all Cropland,
1964

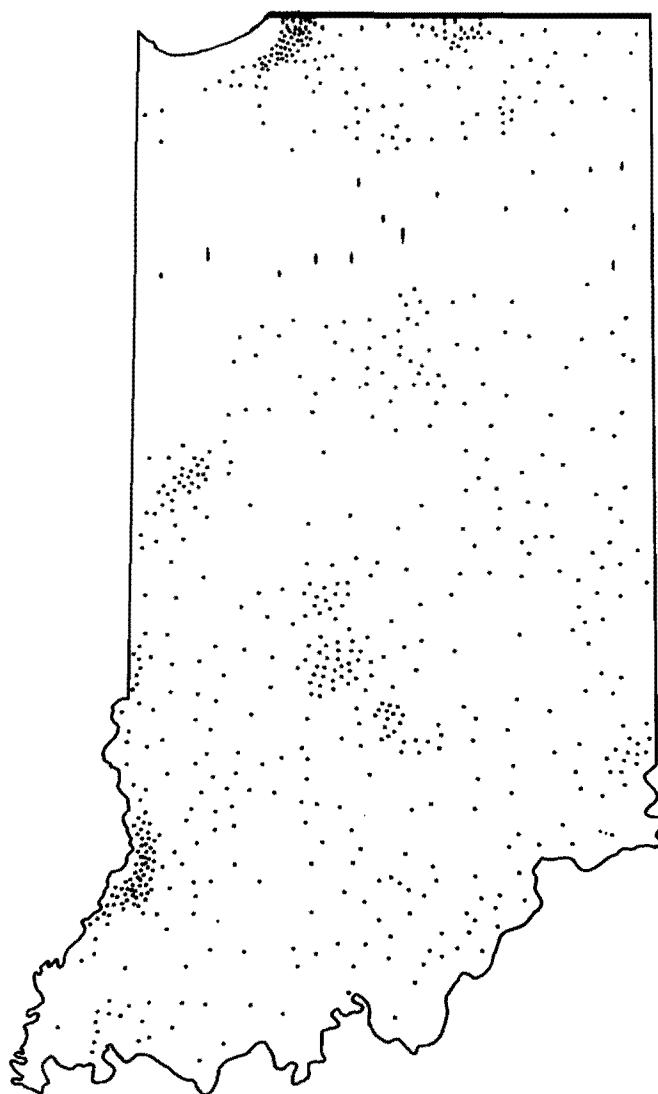
OATS

Acreage, 1964

EACH DOT REPRESENTS
500 ACRES

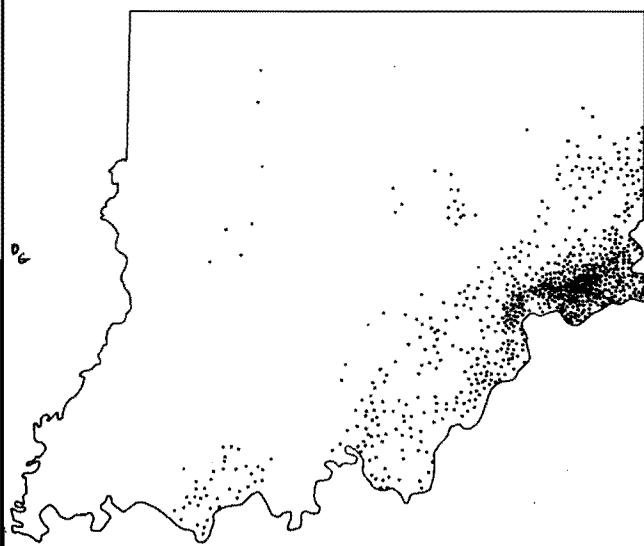


RCK



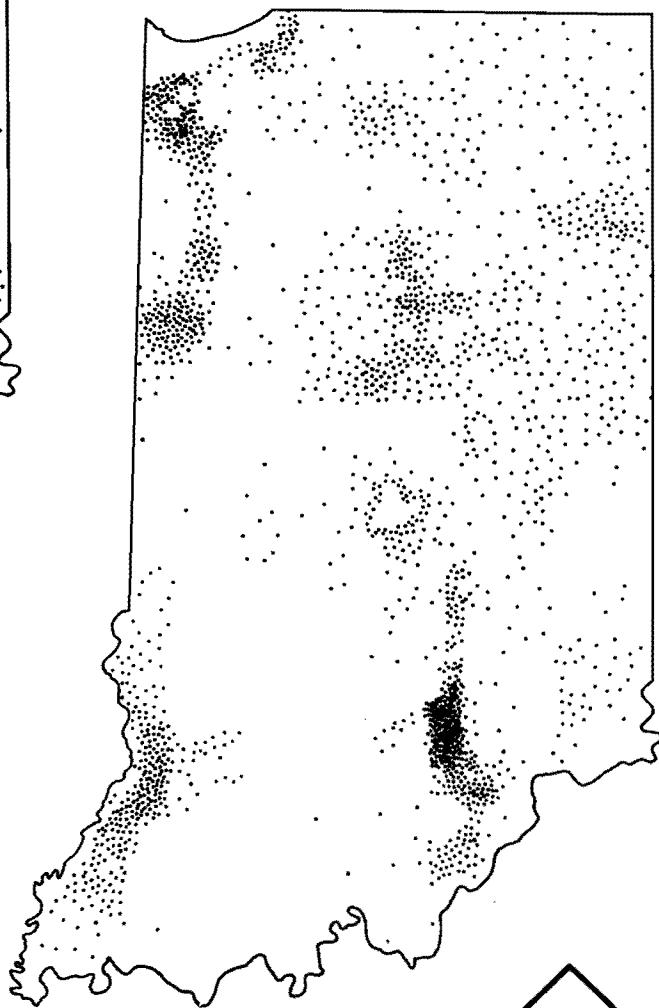
TOBACCO ACREAGE,
1964

EACH DOT REPRESENTS
10 ACRES



TREE FRUITS, NUTS, AND
GRAPES ACREAGE, 1964

EACH DOT REPRESENTS
20 ACRES



EACH DOT REPRESENTS
20 ACRES

VEGETABLE ACREAGE,
1964

harvested for sale,
excluding potatoes

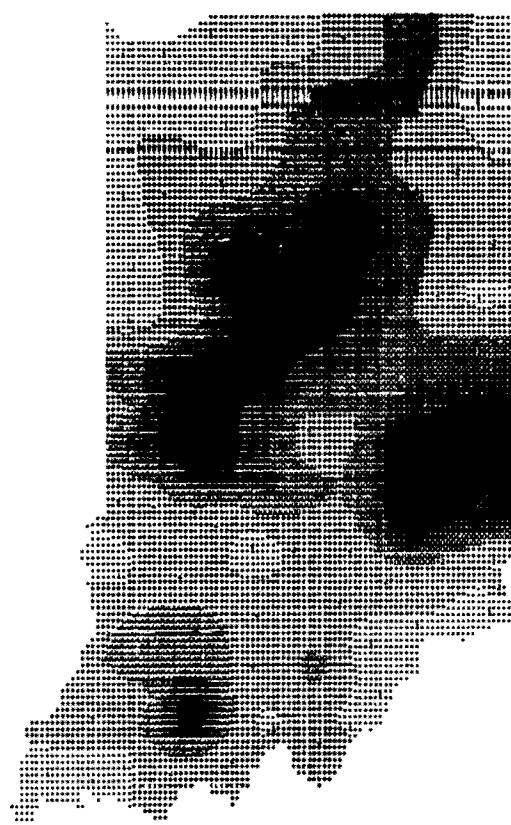
RCX

Computer generated
Isopleth map

HOGS AND PIGS

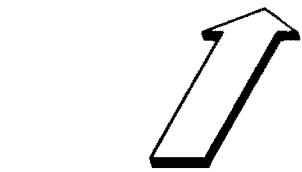
Distribution, 1964

EACH DOT REPRESENTS
500 ANIMALS

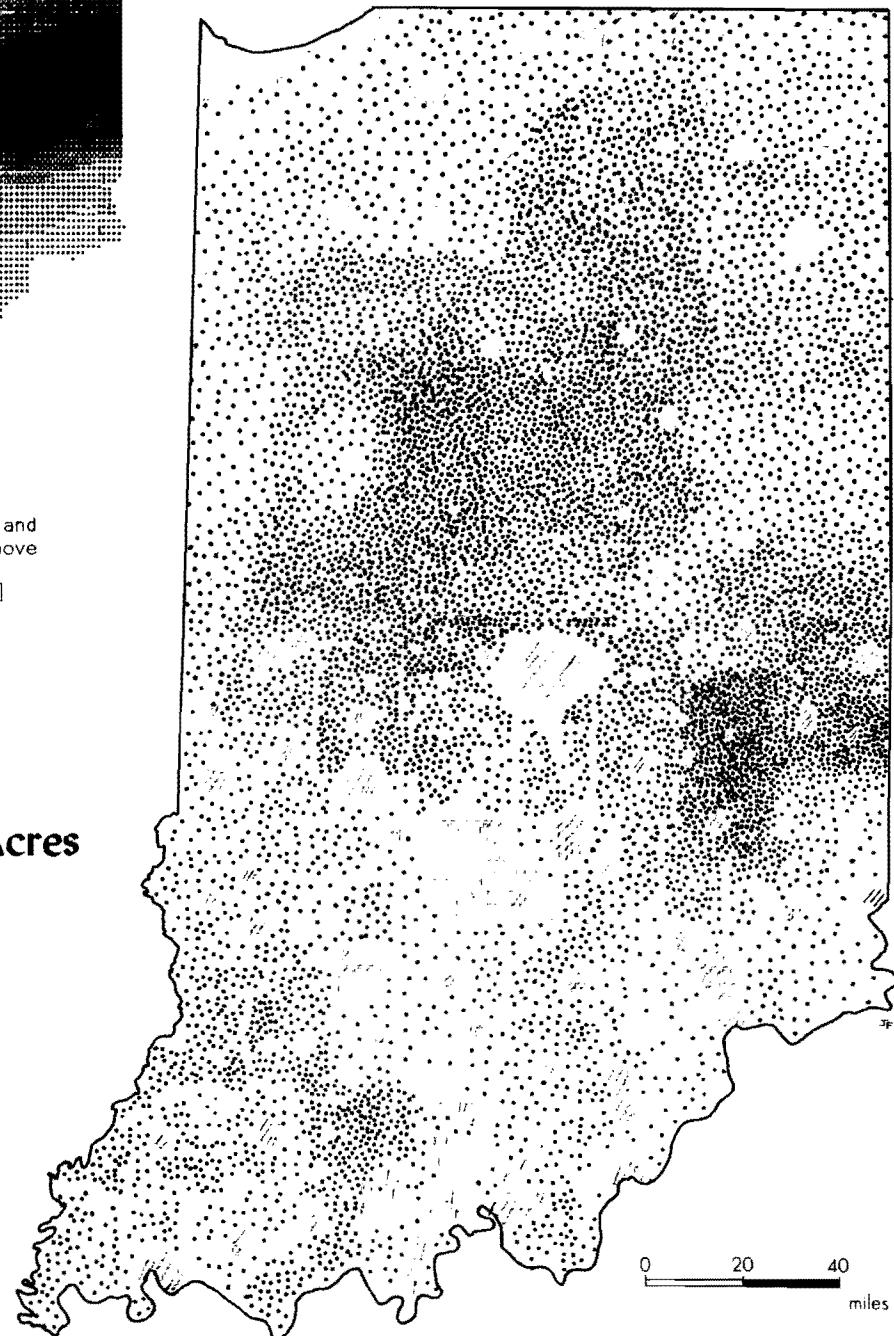


under 200- 300- 400- 500 and
200 300 400 500 above

[based on county data]



Number per 1,000 Acres
of Cropland, 1964



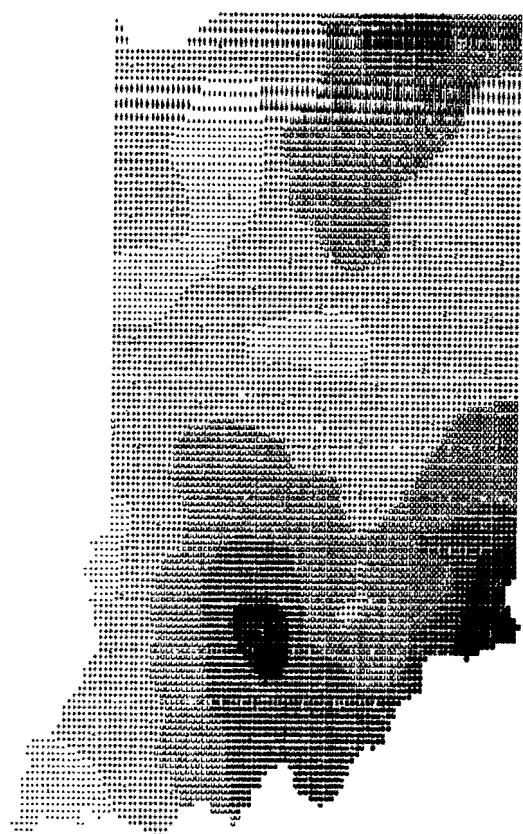
0 20 40 miles

Computer generated Isopleth map

CATTLE AND CALVES

Distribution, 1964

EACH DOT REPRESENTS
500 ANIMALS

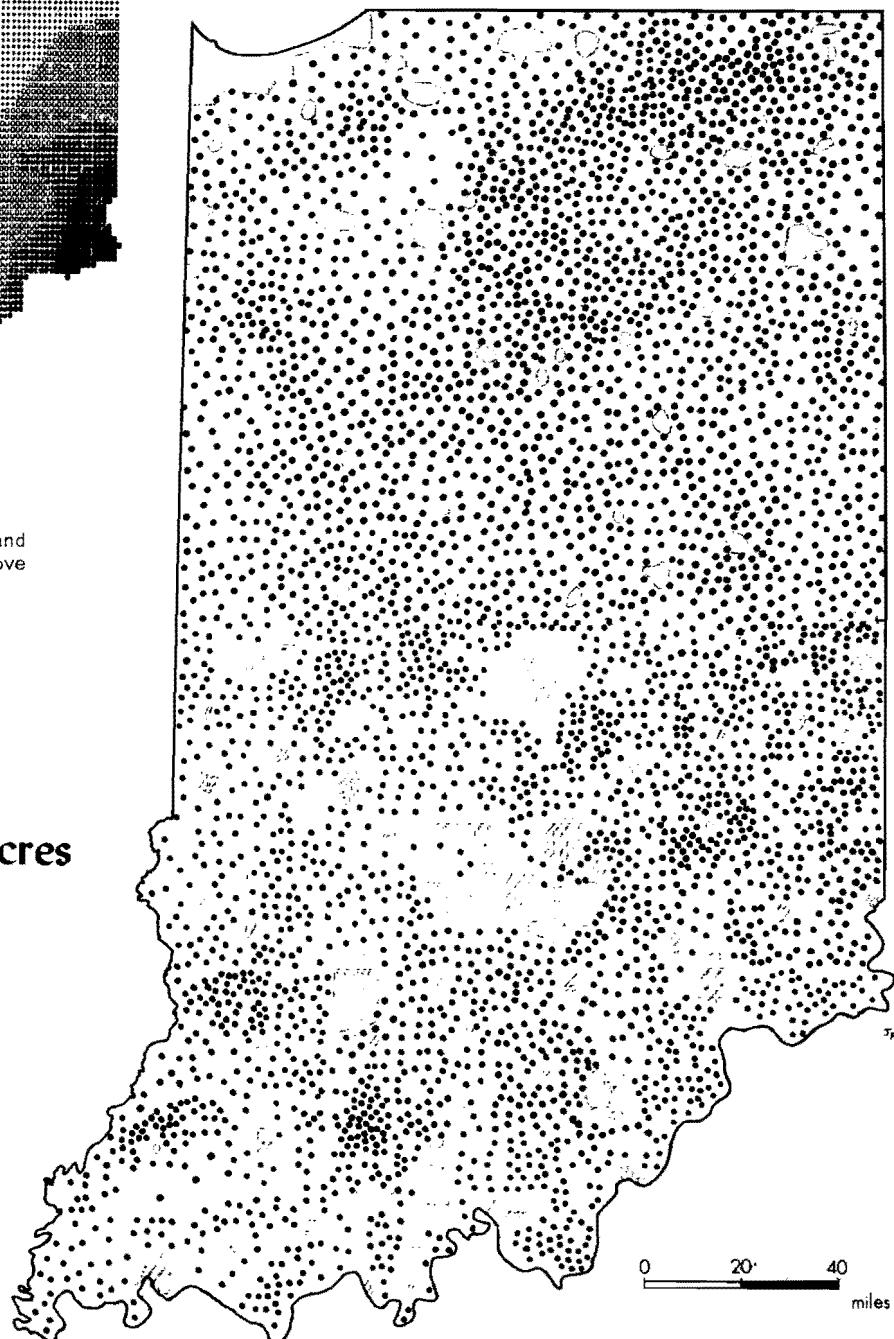


under 100-150-200-250 and
100 150 200 250 above

[based on county data]



Number per 1,000 Acres
of Cropland, 1964



RCX

Computer generated Isopleth map

SHEEP AND LAMBS

Distribution, 1964

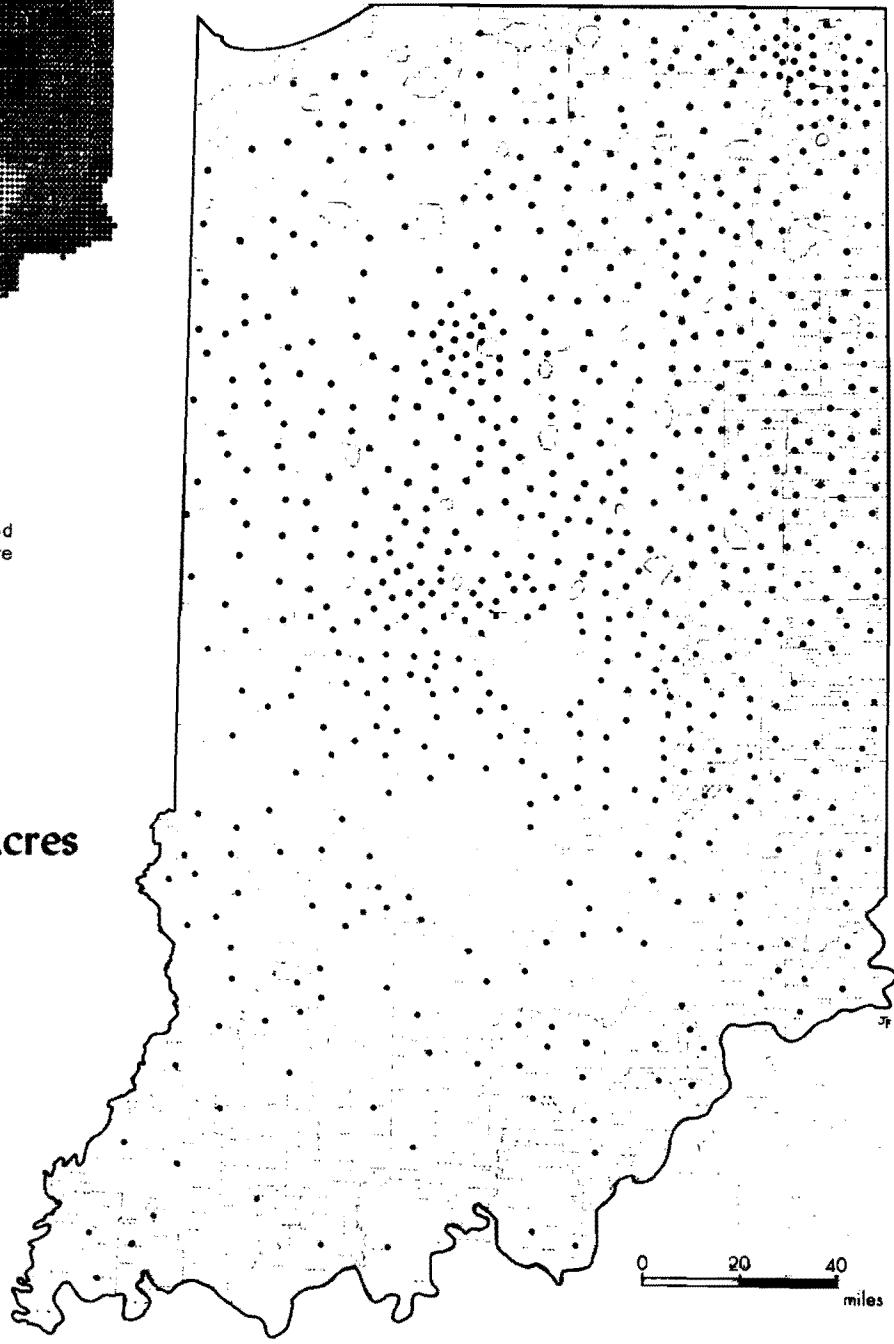
EACH DOT REPRESENTS
500 ANIMALS



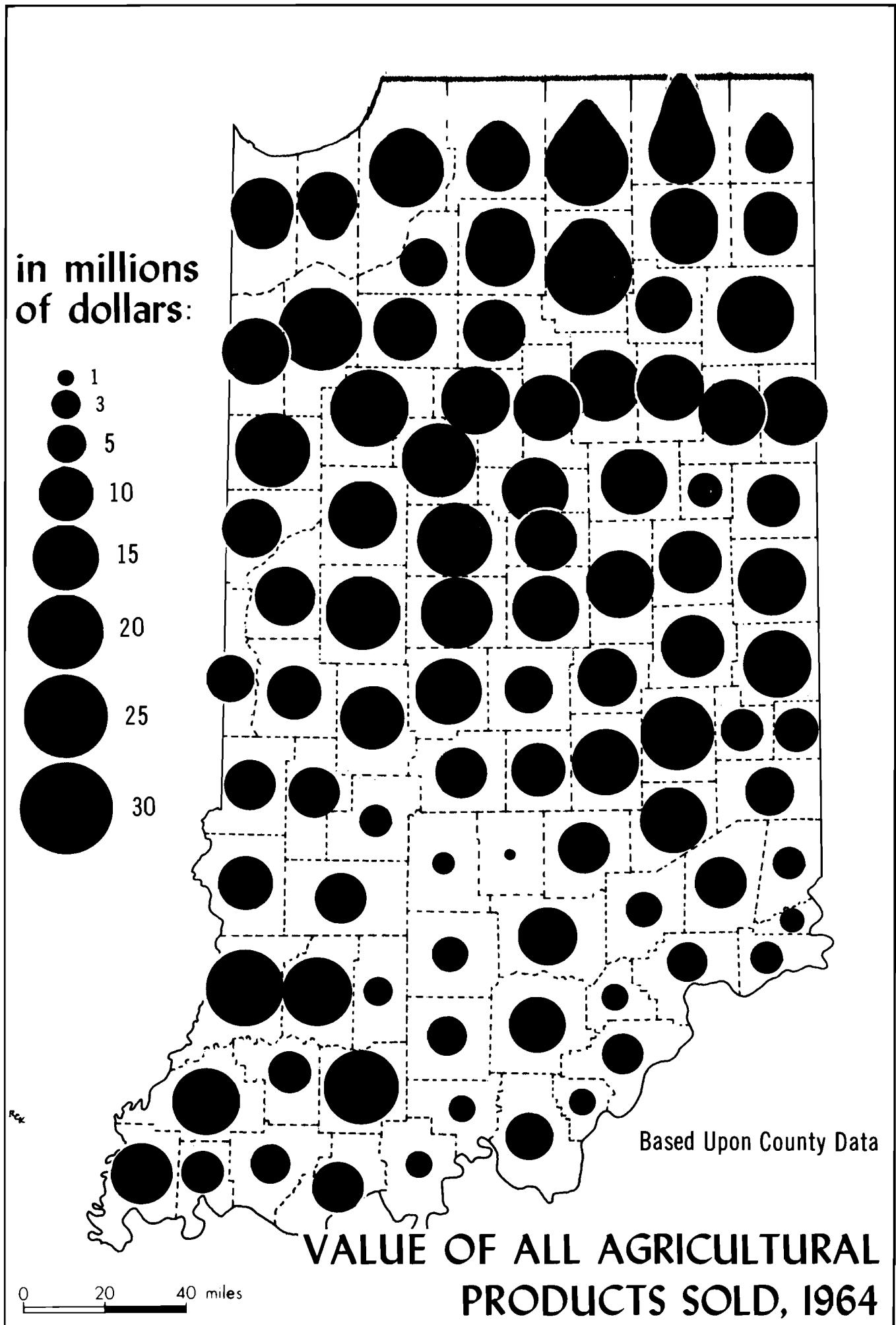
under 10- 20- 30- 40 and
10 20 30 40 above

[based on county data]

Number per 1,000 Acres of Cropland, 1964



0 20 40 miles



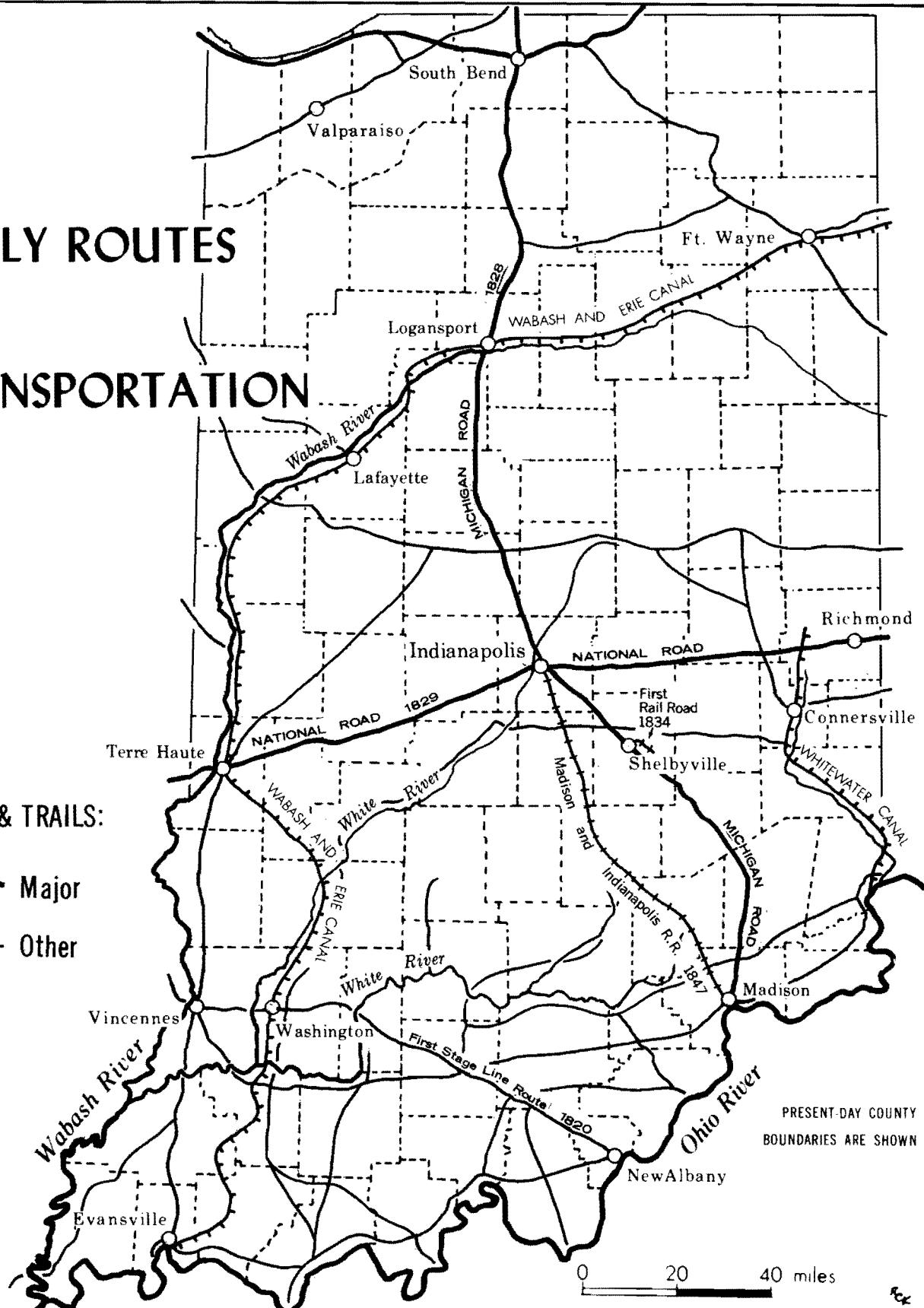
6. TRANSPORTATION & RECREATION

EARLY ROUTES OF TRANSPORTATION

ROADS & TRAILS:

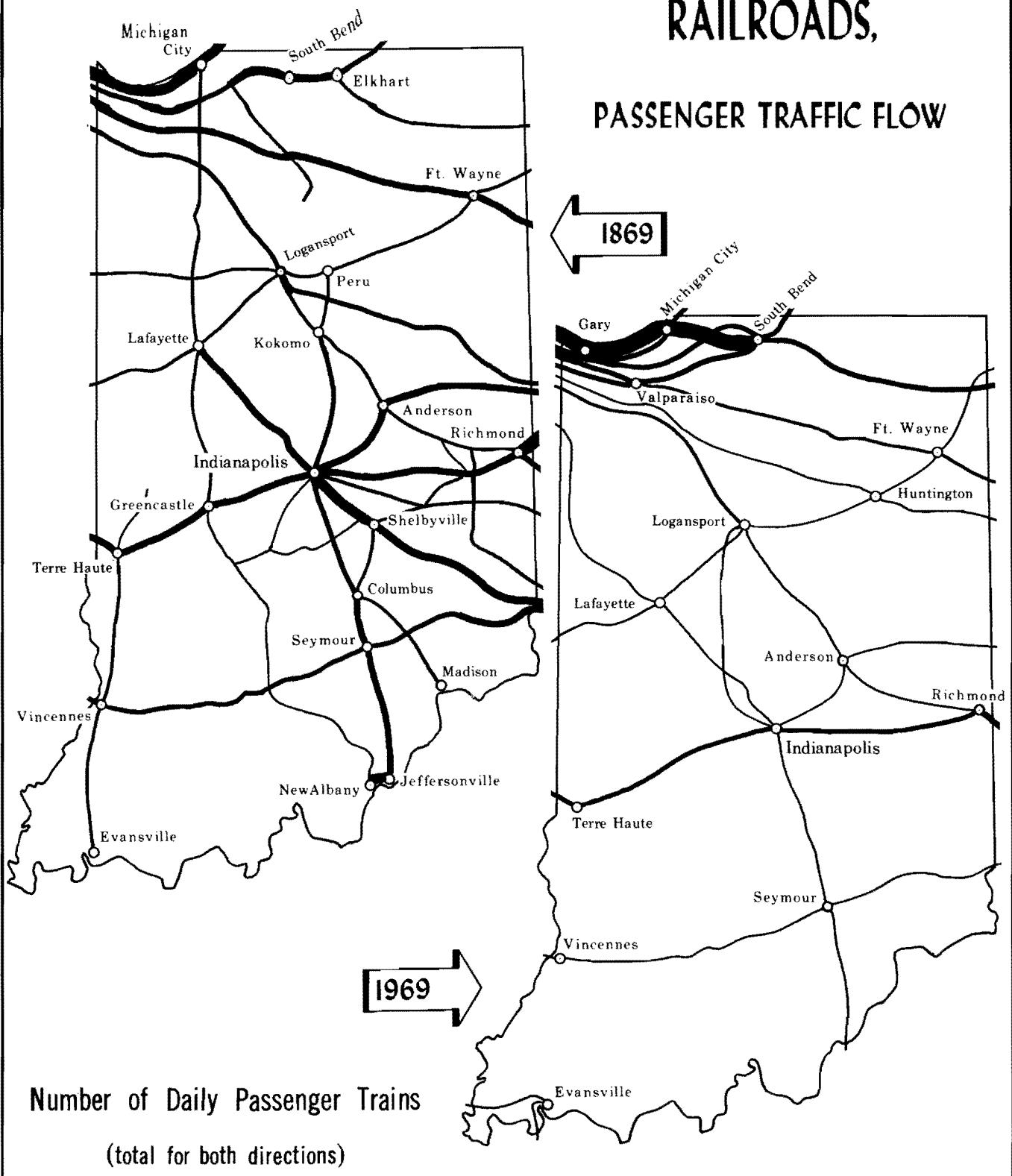
— Major

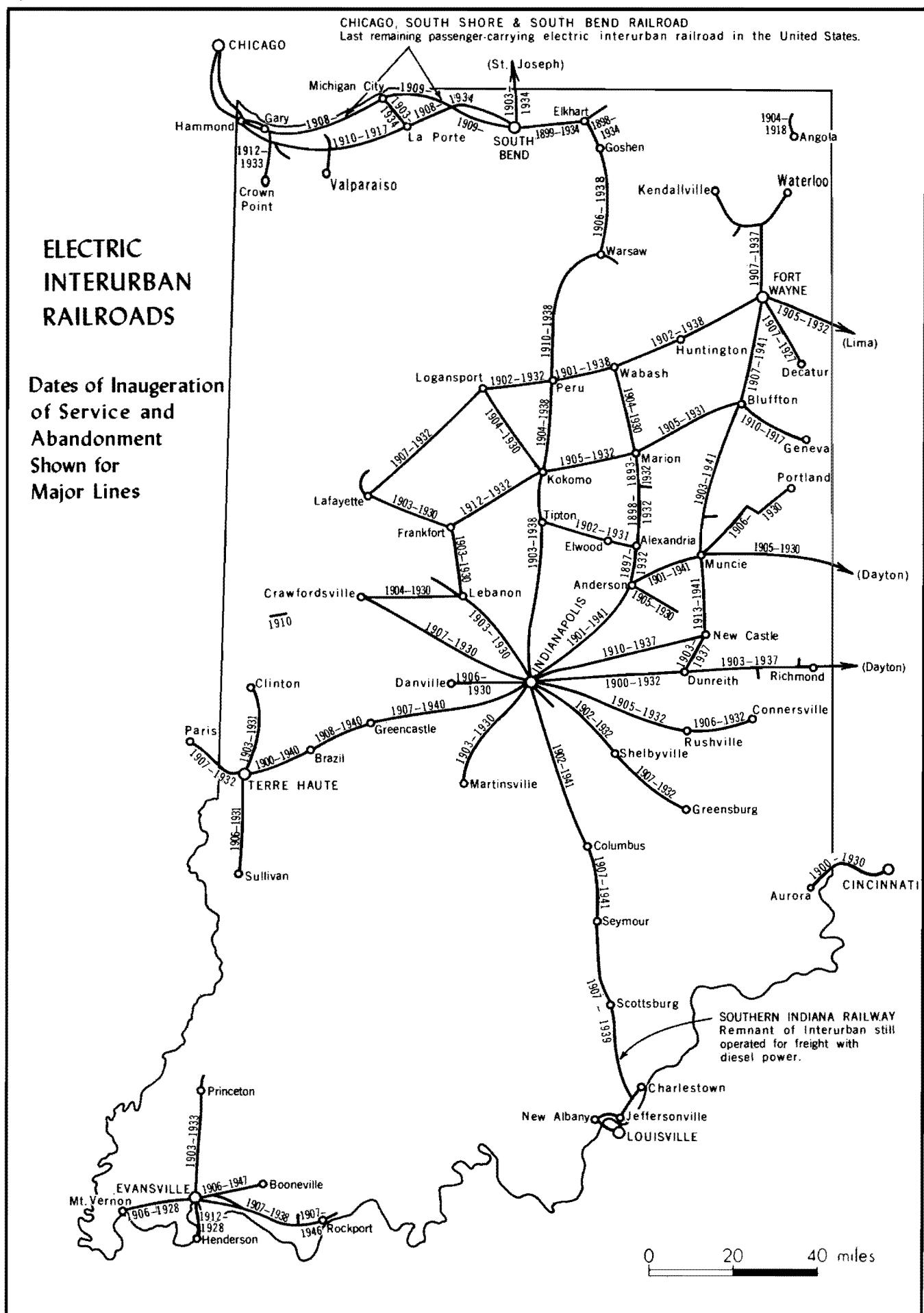
— Other



RAILROADS,

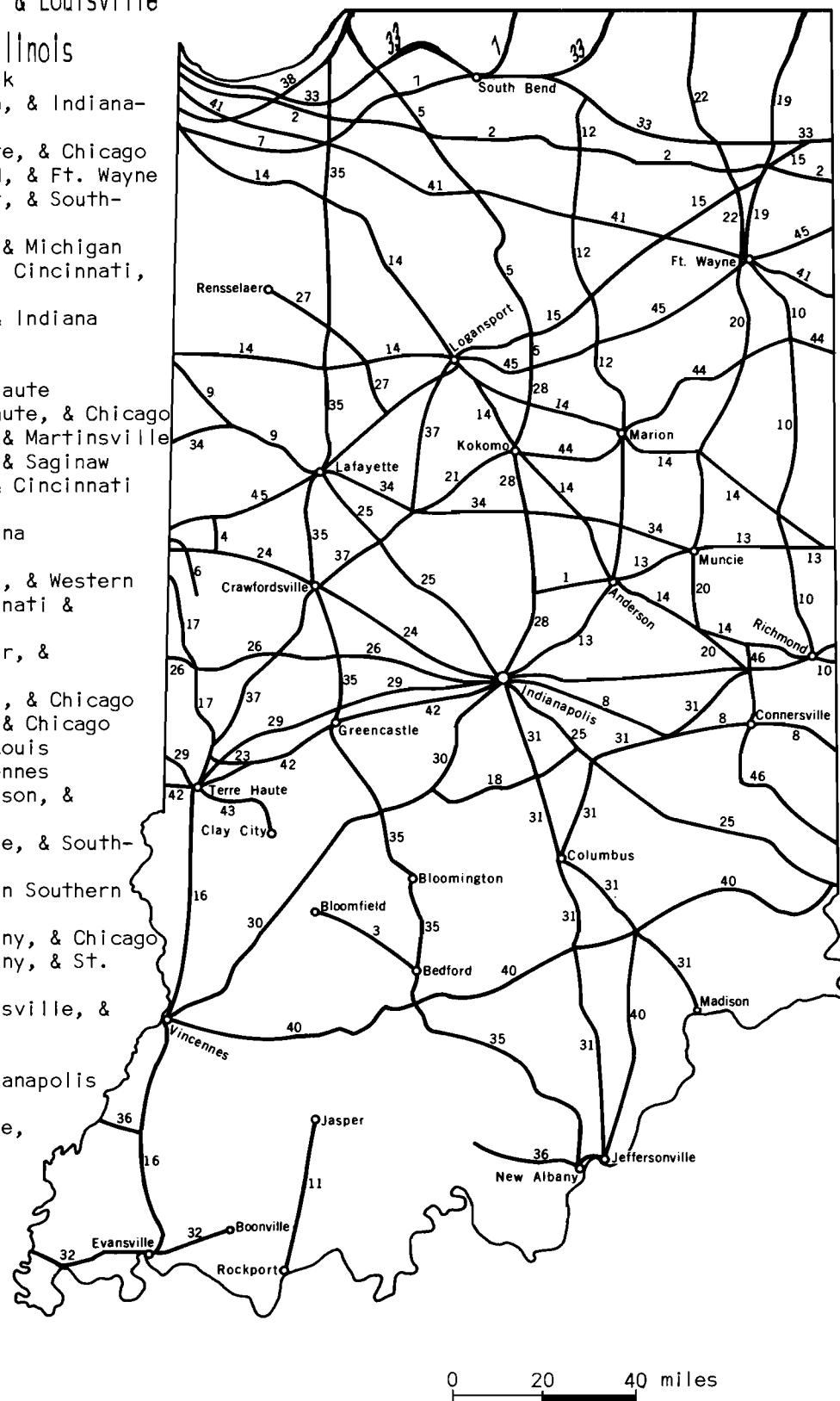
PASSENGER TRAFFIC FLOW



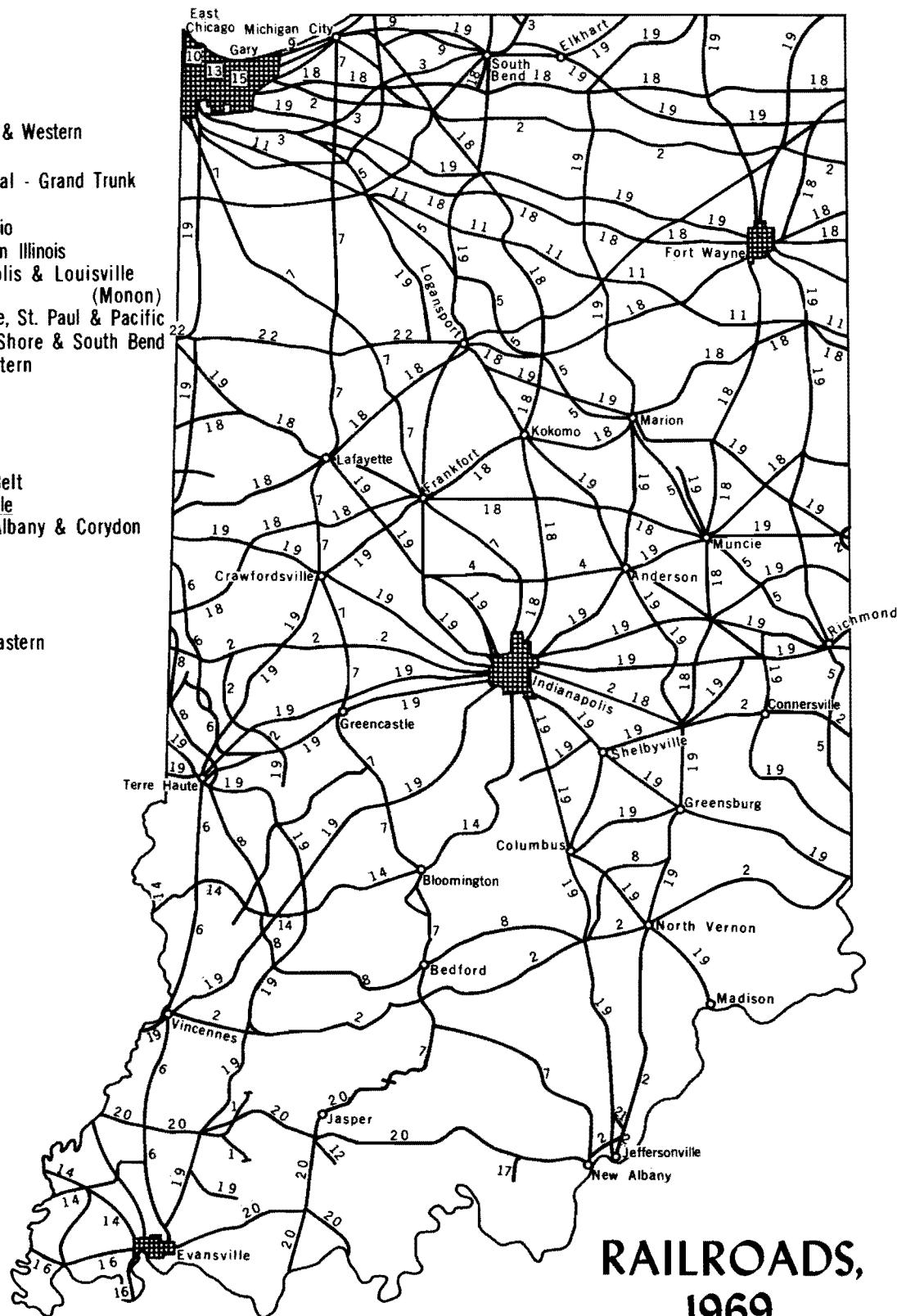


RAILROADS, 1880

1. Anderson, Lebanon, St. Louis
2. Baltimore, Ohio, & Chicago
3. Bedford, Springville, Owensburg, & Bloomfield
4. Chicago & Block Coal
5. Chicago, Cincinnati, & Louisville
6. Chicago & Eastern Illinois
7. Chicago & Grand Trunk
8. Cincinnati, Hamilton, & Indianapolis
9. Cincinnati, Lafayette, & Chicago
10. Cincinnati, Richmond, & Ft. Wayne
11. Cincinnati, Rockport, & Southwestern
12. Cincinnati, Wabash, & Michigan
13. Cleveland, Columbus, Cincinnati, & Indianapolis
14. Columbus, Chicago, & Indiana Central
15. Eel River
16. Evansville & Terre Haute
17. Evansville, Terre Haute, & Chicago
18. Fairland, Franklin, & Martinsville
19. Ft. Wayne, Jackson, & Saginaw
20. Ft. Wayne, Muncie, & Cincinnati
21. Frankfort & Kokomo
22. Grand Rapids & Indiana
23. Indiana Block Coal
24. Indiana, Bloomington, & Western
25. Indianapolis, Cincinnati & Lafayette
26. Indianapolis, Decatur, & Springfield, Ill.
27. Indianapolis, Delphi, & Chicago
28. Indianapolis, Peru, & Chicago
29. Indianapolis & St. Louis
30. Indianapolis & Vincennes
31. Jeffersonville, Madison, & Indianapolis
32. Lake Erie, Evansville, & Southwestern
33. Lake Shore & Michigan Southern
34. Lake Erie & Western
35. Louisville, New Albany, & Chicago
36. Louisville, New Albany, & St. Louis
37. Logansport, Crawfordsville, & Southwestern
38. Michigan Central
39. Michigan City & Indianapolis
40. Ohio & Mississippi
41. Pittsburgh, Ft. Wayne, & Chicago
42. Terre Haute & Indianapolis
43. Terre Haute & Southeastern
44. Toledo, Delphos, & Burlington
45. Wabash, St. Louis & Pacific
46. Whitewater



- 1 Algiers, Winslow & Western
- 2 Baltimore & Ohio
- 3 Canadian National - Grand Trunk
- 4 Central Indiana
- 5 Chesapeake & Ohio
- 6 Chicago & Eastern Illinois
- 7 Chicago, Indianapolis & Louisville (Monon)
- 8 Chicago, Milwaukee, St. Paul & Pacific
- 9 Chicago, South Shore & South Bend
- 10 Elgin, Joliet & Eastern
- 11 Erie Lackawanna
- 12 Ferdinand
- 13 Kankakee Belt
- 14 Illinois Central
- 15 Indiana Harbor Belt
- 16 Louisville & Nashville
- 17 Louisville, New Albany & Corydon
- 18 Norfolk & Western
- 19 Penn Central
- 20 Southern
- 21 Southern Indiana
- 22 Toledo, Peoria & Western



**RAILROADS,
1969**

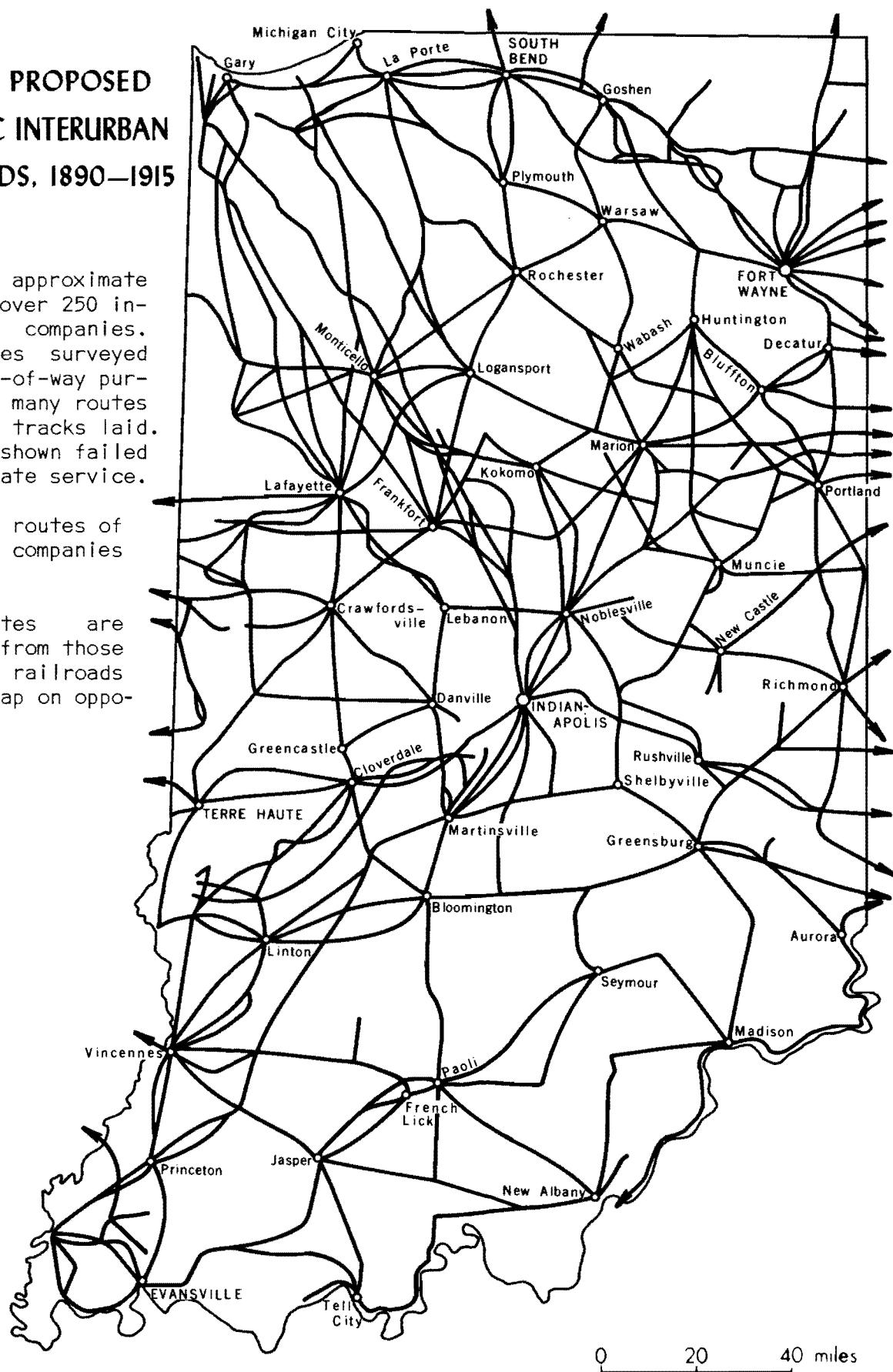
0 20 40 miles

OTHER PROPOSED ELECTRIC INTERURBAN RAILROADS, 1890-1915

Shown are approximate routes of over 250 incorporated companies. Most routes surveyed and rights-of-way purchased; many routes graded and tracks laid. All lines shown failed to inaugurate service.

Duplicated routes of different companies not shown.

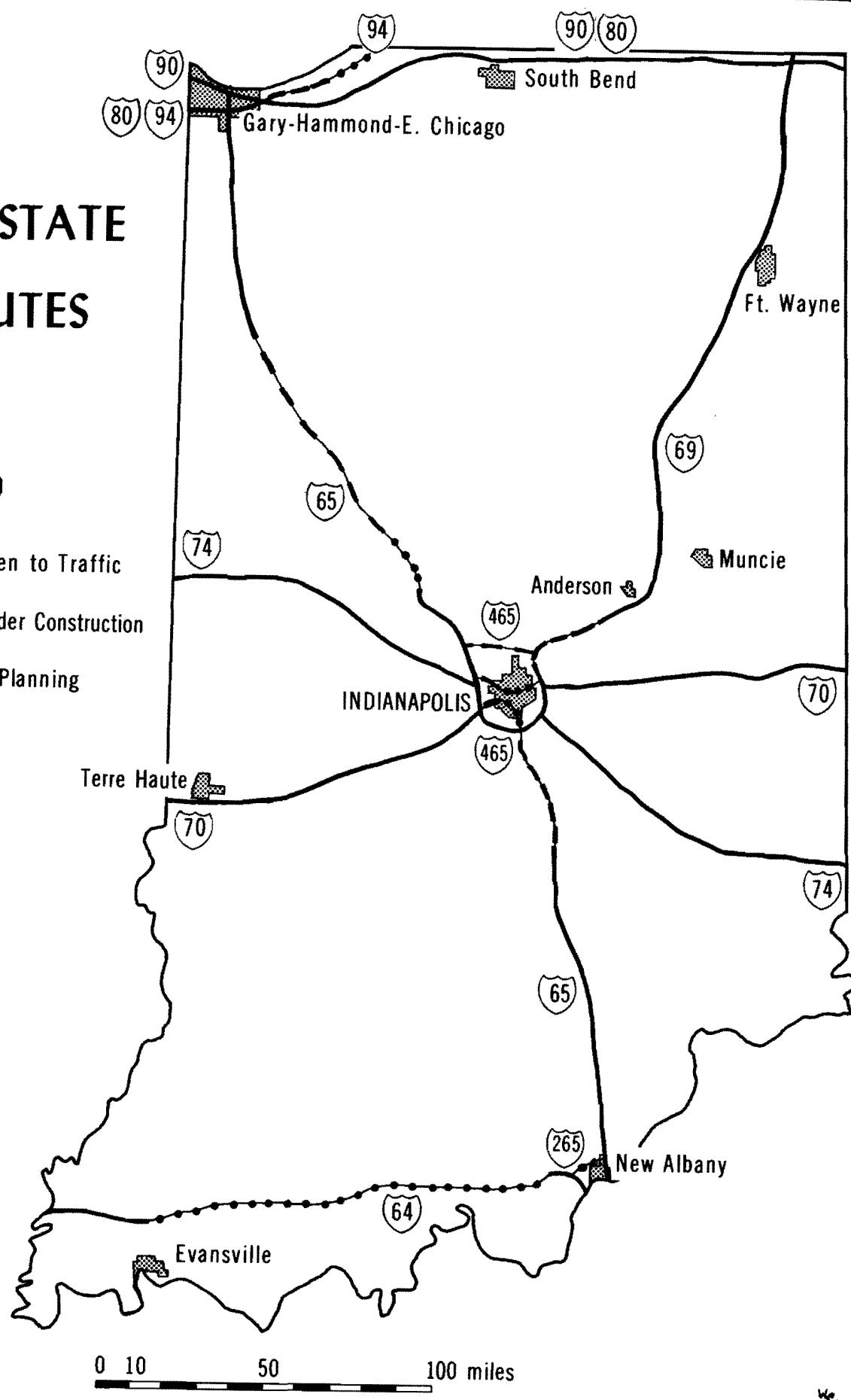
All routes are different from those operating railroads shown by map on opposite page.



INTERSTATE ROUTES

1969

- Open to Traffic
- Under Construction
- In Planning



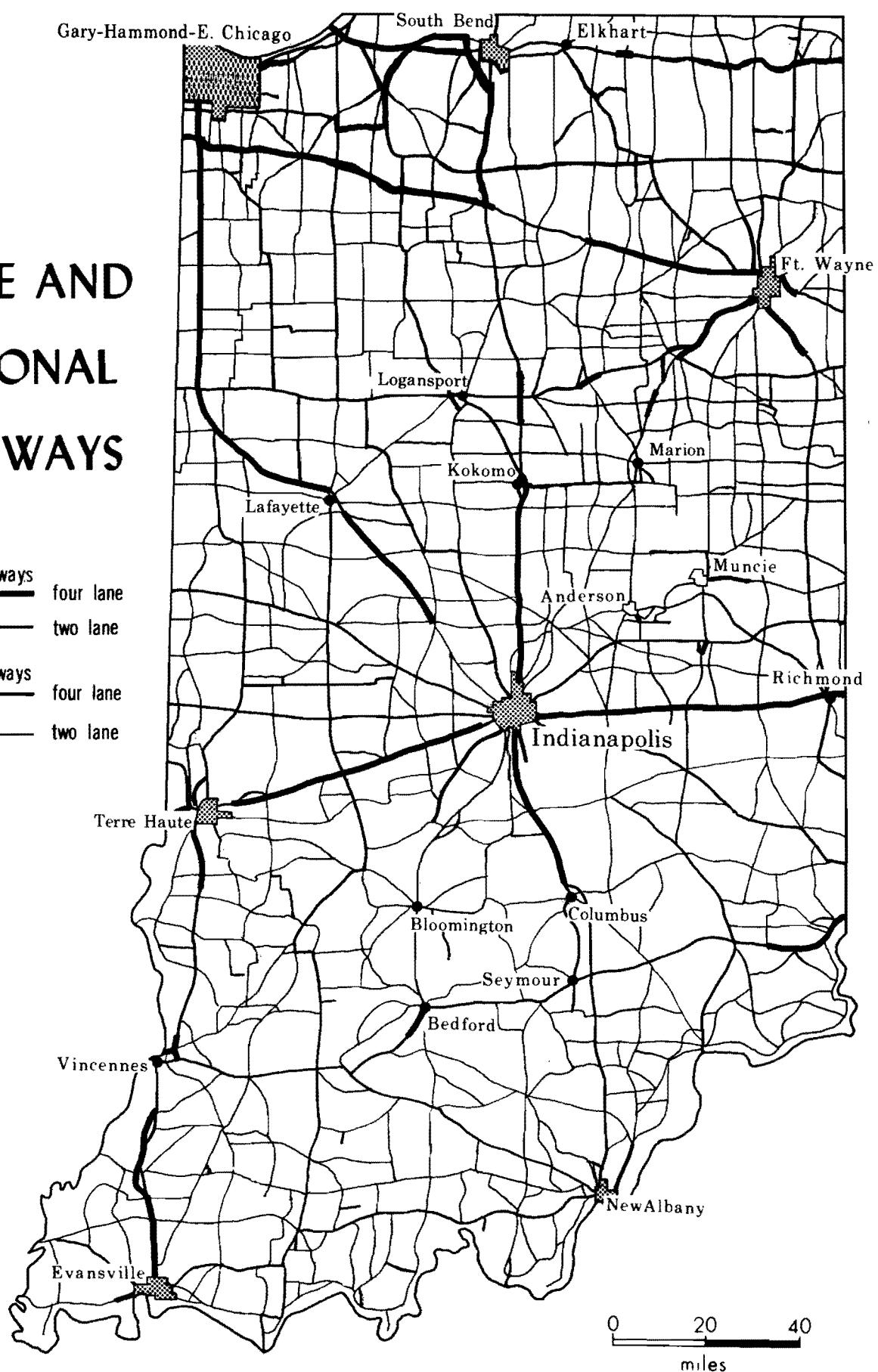
STATE AND NATIONAL HIGHWAYS

Federal Highways

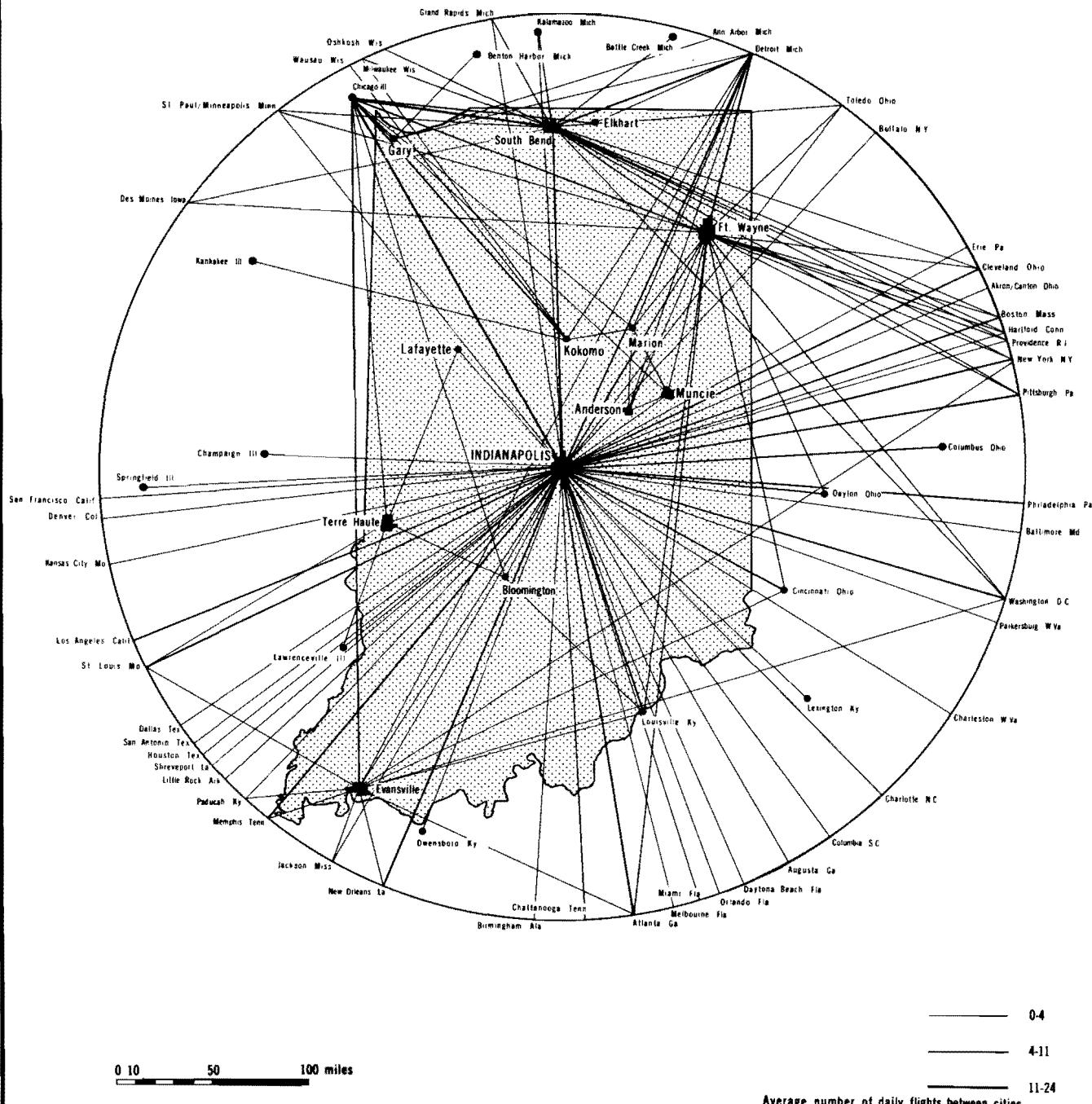
four lane
two lane

State Highways

four lane
two lane

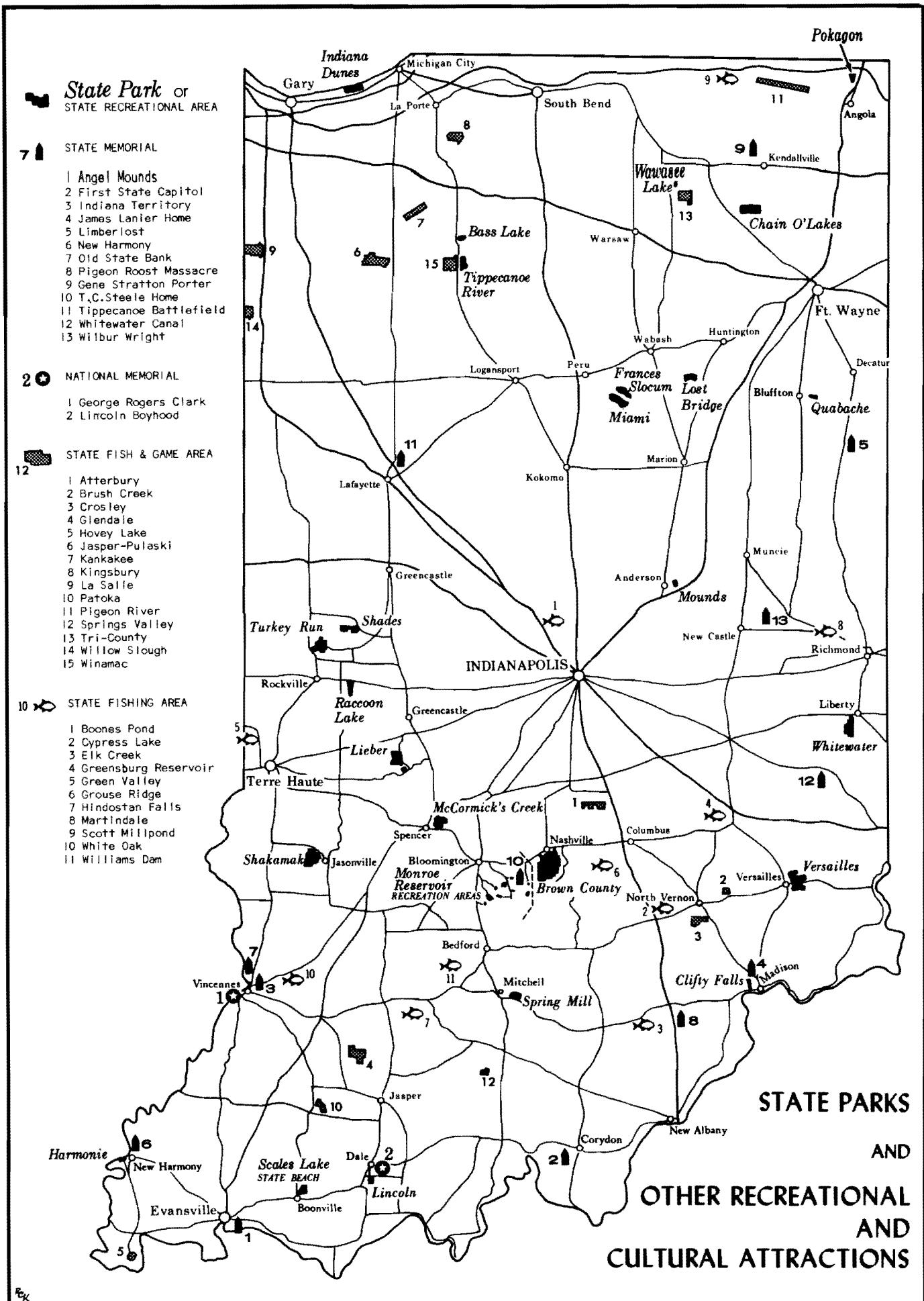


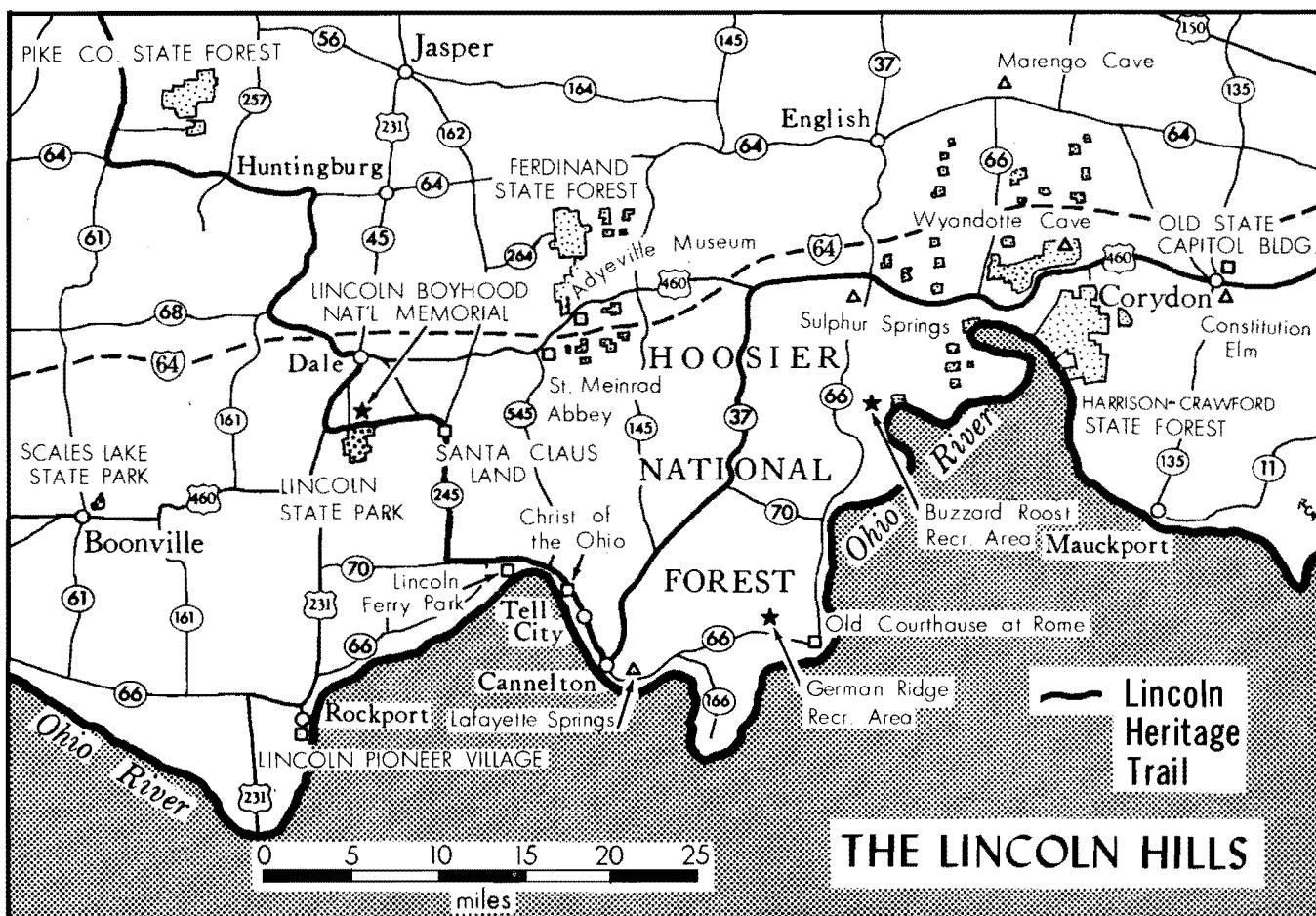
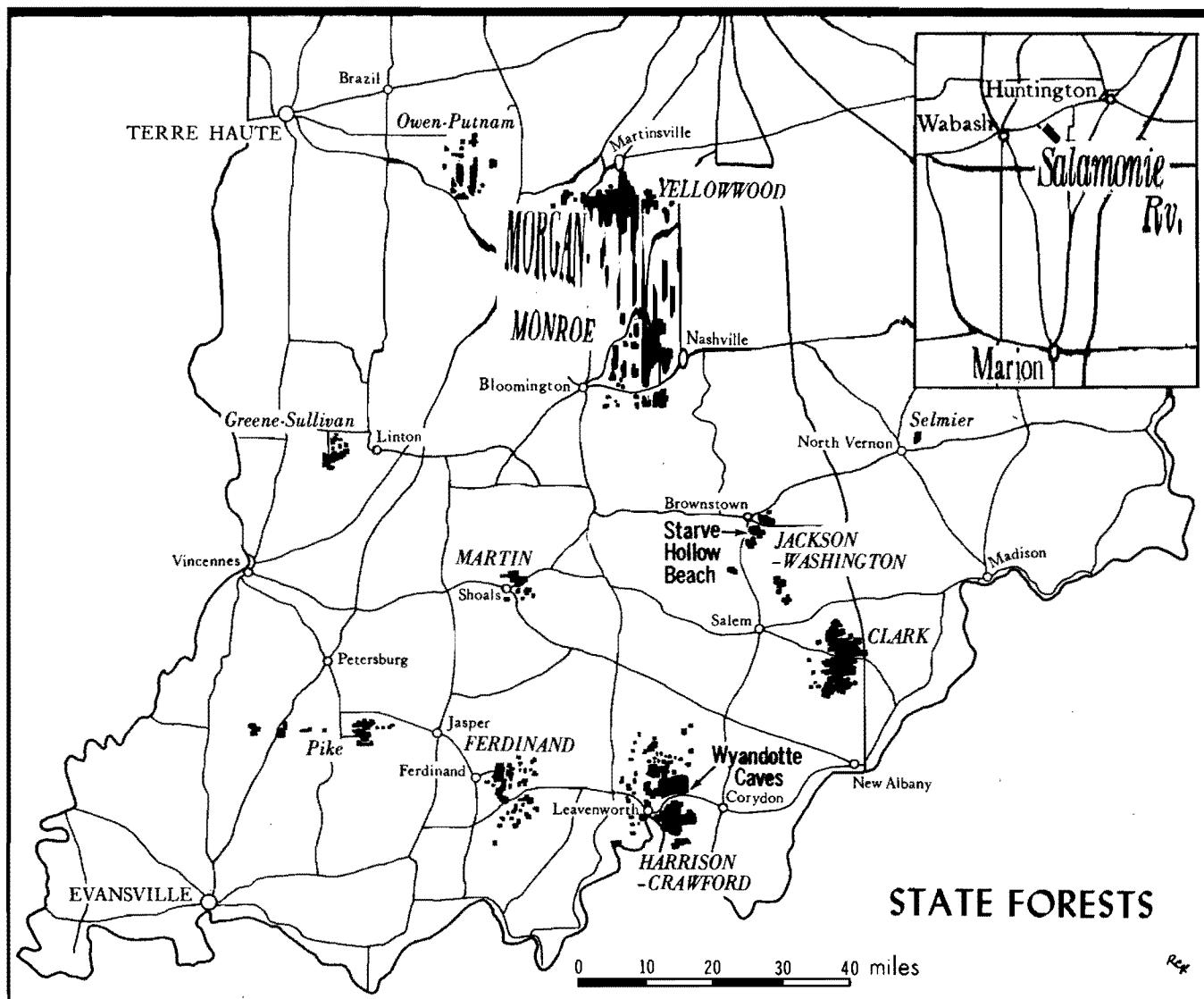
SCHEDULED AIRLINE FLIGHTS

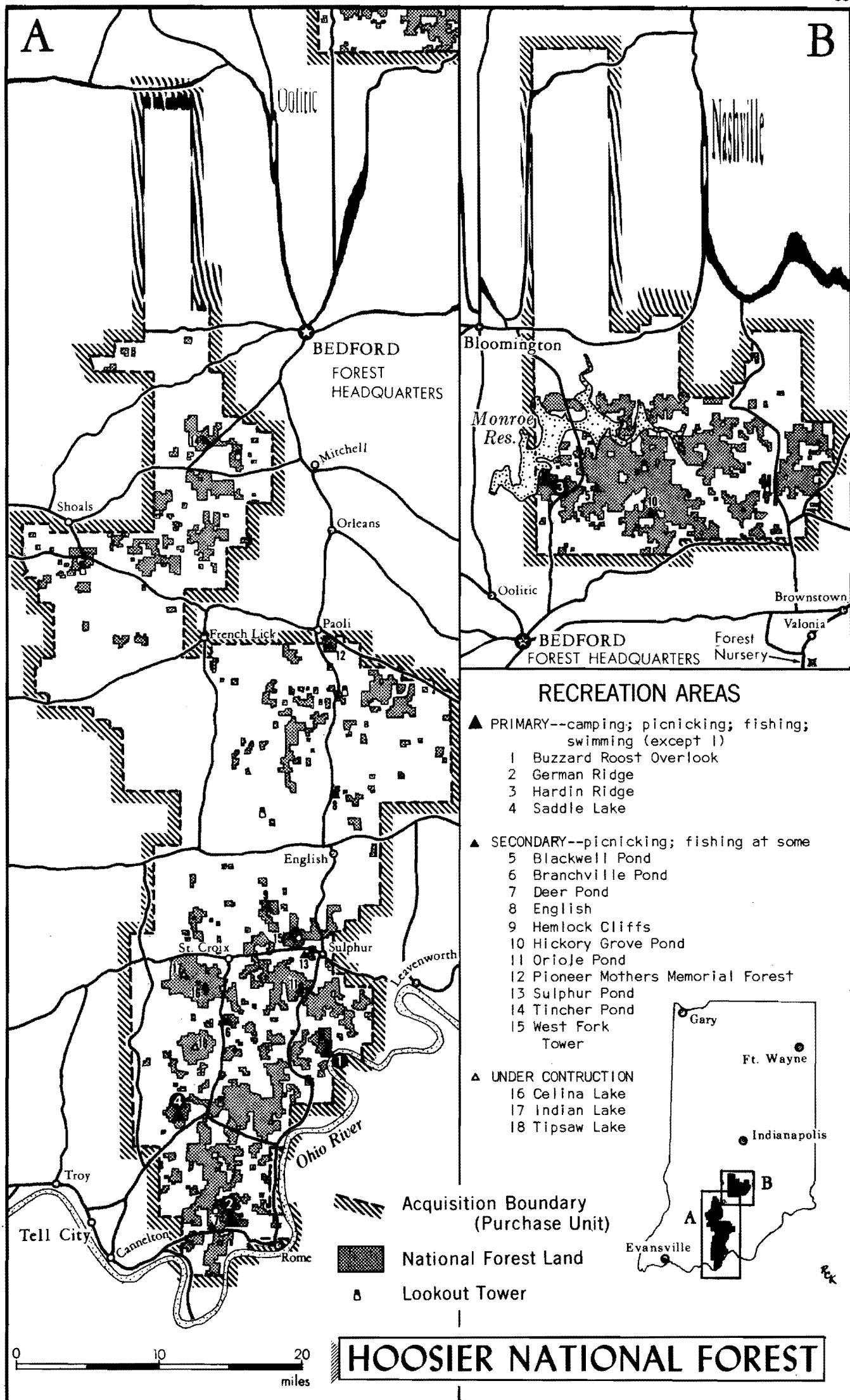


Source: Official Airline Guide, Sept. 15, 1969

Average number of daily flights between cities







ABOUT THE CARTOGRAPHY

Most of the maps contained in this atlas were drawn specifically for presentation in this atlas. A large number were developed from federal government statistical materials, especially census data on population (1960, 1966), manufacturing (1963), business (1963, 1967), and agriculture (1964) issued by the Bureau of the Census, Department of Commerce, Washington. Other than for a few statistical maps which are historical in nature, most maps utilize the latest census materials available in 1968-1969.

Some of the maps in this atlas represent redrawn adaptations of existing maps, or they were compiled by fitting together elements found on two or more existing maps. Both cases apply to many of the physical maps including those on topography, soils, geology, drainage, mineral resources, water resources, and vegetation. Other redrawn adaptations developed from one or more existing maps include those depicting Indian treaties, counties in 1816, population with a high school education, 16 and 17 year olds in school, personal and family income, early routes of transportation, railroads, interurban electric lines, and highways.

A few of the maps presented are neither original to this atlas nor were they redrawn for this atlas. These include: "Counties and Townships" (page 10), issued by the Bureau of the Census, Department of Commerce (U.S.); "Physiographic Regions" (page 14), issued by the Geological Survey, Department of Natural Resources (Indiana); "Physiographic Diagram" (page 15), drawn by the late Dr. J. E. Switzer, Indiana University; three of the maps under "Water Resources" (page 19), issued by the Geological Survey, Department of Interior (U.S.). Major cartographic and statistical sources for all maps are cited in the reference list that follows.

The maps of business and industry (pages 44-59) were developed mainly from statistics in the 1963 Census of Business, the 1963 Census of Manufacturing, and County Business Patterns, 1967. These sources list statistics on a county basis and each map circle has been drawn proportional to others on the map on a county basis. However, major circles are identified by major city names rather than by county names as it was felt city names as identification would be the most useful. Thus, as an example, Indianapolis is identified on many of the maps; the map circle symbolization, however, represents all of Marion County, not just Indianapolis alone.

Computer-generated maps in this atlas represent copies of printouts obtained through use of the facilities of the Research Computing Center, Indiana University. These maps were derived by using "SYMAP" or Synagraphic Mapping, a computer program developed by the Laboratory for Computer Graphics, Graduate School of Design, Harvard University. The program is written on a deck of approximately 5,000 punch cards. To produce each map, this deck was fed into the computer along with a tailor-made group of additional instruction cards.

Unlike many computer mapping programs, SYMAP products come from a printer rather than from a line plotter. Overprinting of letter and symbol combinations produces increasingly darker gradational patterns. Thus, the solid black areas on these computer maps were made by overprinting A, O, V, and X. On each computer map presented here, the data displayed by the map has been divided into five printer patterns which represent five distinct statistical zones.

Proper selection of the five data zones is a necessity for any map to be an effective visual and intellectual presentation. However, established guidelines for this choice are few. To illustrate the problem, three computer maps of "Population Density, 1960" are given on pages 32-33. The data used for each version was identical; only the data zones were changed. User impression of relative density of the state's

population changes considerably between maps. Version #1 may suggest to many people a largely rural Indiana while Version #2 may suggest a largely urban Indiana. Version #3 lies inbetween but is this the "best" version? Perhaps a version yet unmade might be better.

All the computer maps were greatly reduced from their original printouts. Unfortunately, the symbolization on some was too lightly printed to be clearly readable after reduction. The computer paper available to us contained extraneous lines which ran horizontally across the maps. These lines could not be eliminated completely even by diligent opaquing. They are particularly evident on the maps on pages 70-72 and interfere somewhat with easy reader interpretation of the map zones.

MAJOR MAP AND STATISTICAL DATA SOURCES

map(s) on

page(s):

- 7 Howard H. Peckham and Ernest M. Jackson (comp.), Historic Indiana to 1875 (map), Indianapolis: Indiana Historical Bureau, 1948; Robert C. Kingsbury, An Atlas of Southern Indiana, Bloomington, Department of Geography, Indiana University, 1966, Occasional Publication No. 3, p. 19.
- 8 George Pence and Nellie C. Armstrong, Indiana Boundaries--Territory, State, and County, Indiana Historical Collections, Vol. XIX, Indianapolis: Indiana Historical Bureau, 1933, p. 147; Robert C. Kingsbury, op. cit., p. 20.
- 9 George S. Cottman and Max R. Hyman, Centennial History and Handbook of Indiana, Indianapolis: Max R. Hyman, 1915; and numerous individual county histories.
- 10 Bureau of the Census, Department of Commerce, U.S., Indiana Base Map (from U.S. Census of Population, 1960).
- 11 U.S. Office of Education, various publications.
- 12 Geological Survey, Department of Natural Resources, Indiana, Topographic Map of Indiana, 1948.
- 13 Agricultural Experiment Station, Purdue University, The Story of Indiana Soils, Lafayette: Purdue University, Special Circular #1, 1944.
- 14 C. A. Malott, "The Physiography of Indiana," Handbook of Indiana Geology, Indiana Department of Conservation, Publication 21, 1922.
- 15 J. E. Switzer, Department of Geology and Geography, Indiana University, ca. 1932. Copy of original drawing housed in Map Collection, Department of Geography.
- 16 Geological Survey, Department of Natural Resources, Indiana, Geologic Map of Indiana, 1956; with revisions by R. H. Shaver.
- 17 Geological Survey, Department of Natural Resources, Indiana, Glacial Geology (map) of Indiana, 1958; with revisions by R. H. Shaver.
- 18 Geological Survey, Department of Interior, U.S., Indiana (state map), 1:500,000, 1950.
- 19 Flood Control and Water Resources Commission, Indiana, Principal Watersheds and Reservoir Projects, map in Progress Report, 1961, p. iv; Geological Survey, Department of Interior, U.S., United States: Water Resources Development (map), 1969; Geological Survey, Department of the Interior, U.S., Water Resources Investigations in Indiana, Washington, 1969.
- 20 A. W. Kuchler, Potential Natural Vegetation in the Conterminous United States (map), New York: American Geographical Society, Special Publication No. 36, 1964; A. W. Kuchler, Potential Natural Vegetation, United States (map), Revised edition of 1965, National Atlas Sheet No. 90, Washington: Geological Survey, 1967.
- 21 United States, Census of Mineral Industries, 1963, Vol. II - Area Statistics, p. 13.
- 22 Geological Survey, Department of Natural Resources, Indiana, Miscellaneous Maps: No. 9 - Locations of Aggregate operations in Indiana, 1963; No. 10 - Locations of Sand and Gravel Operations in Indiana, 1964; No. 11 - Locations of Crushed Stone Operations in Indiana, 1968; No. 13 - Bedford-Bloomington dimension limestone belt . . ., 1967; No. 14 - Locations of clay and shale operations in Indiana, 1968.

- 23 Geological Survey, Department of Natural Resources, Indiana, Miscellaneous Maps: No. 7 - Southwestern Indiana showing locations of active coal mines, 1969; No. 8 - Showing Oil and Gas Fields in Indiana, 1962; No. 15 - Southwestern Indiana showing areas strip mined for coal, 1967.
- 24 Weather Bureau, Department of Commerce, U.S., Climates of the States: Indiana, No. 60-12, Washington, Government Printing Office, 1959.
- 25-27 Ibid.
- 28 Ibid; Weather Bureau, Department of Commerce, U.S., Climatic Summary of the United States - Indiana, Washington: Government Printing Office, 1956.
- 29 Bureau of the Census, Department of Commerce, U.S., U.S. Census of Population: 1960, Vol. 1. Characteristics of the Population, Part 16, Indiana, Washington: Government Printing Office, 1962.
- 30 United States, 8th Census of the United States, 1860, Vol. 1 - Statistics of Population, Washington.
- 31 same as p. 29.
- 32-33 Ibid.
- 34 same as pp. 29, 30.
- 35 Same as p. 29; Bureau of the Census, Department of Commerce, U.S., Current Population Reports: Population Estimates, Series P-25, No. 407, October 10, 1968, pp. 5-7.
- 36 same as p. 29.
- 37 Ibid.
- 38 Geography Division, Bureau of the Census, Department of Commerce, U.S., Map Series GE 50, Nos. 9 and 10, 1966.
- 39 Ibid, No. 8, 1966.
- 40 Ibid, No. 6, 1966.
- 41 same as p. 29.
- 42 Geological Survey, Department of Interior, U.S., Topographic Maps of Indiana at the scale 1:24,000, various dates.
- 43 same as p. 29; Bureau of the Census, Department of Commerce, U.S., Thirteenth Census of the United States, 1910, Vol. II. Population, Washington: Government Printing Office, 1913.
- 44 Bureau of the Census, Department of Commerce, U.S., County Business Patterns, 1967, Indiana, CBP-67-16, Washington: Government Printing Office, 1968.
- 45 Ibid.
- 46 Ibid; Bureau of the Census, Department of Commerce, U.S., 1963 Census of Business, Vol. 2 - Retail Trade Area Statistics, Washington: Government Printing Office, 1966.
- 47 Ibid; Ibid.
- 48 same as p. 44.
- 49 Bureau of the Census, Department of Commerce, U.S., 1963 Census of Manufacturing, Vol. II - Area Statistics, Washington: Government Printing Office, 1966, p. 15.
- 50 same as p. 44.
- 51-59 Ibid.
- 60 Bureau of the Census, Department of Commerce, U.S., Census of Agriculture, 1964, Vol. I, Part II - Indiana, Washington: Government Printing Office, 1967, pp. 240-249.
- 61-73 Ibid.
- 74 Department of Conservation, Indiana, A Map of Indiana showing its History . . . , 1932, Indianapolis: Department of Conservation, revised edition 1959; Howard H. Peckham and Ernest M. Jackson, op. cit.; Robert C. Kingsbury, op. cit., p. 19; E. Y. Guernsey, Indiana - The Influence of the Indian Upon its History (map), Publication No. 122, Indianapolis: Department of Conservation, 1932.

GAZETTEER

(exclusive of page 10)

ABBREVIATIONS USED:

Co	County	SB	State Beach
Cr	Creek	SF	State Forest
Mt	Mount	SFA	State Fishing Area
NM	National Memorial	SFGA	State Fish and Game Area
R	River	SP	State Park
RA	Recreation Area	SRA	State Recreation Area
Rd	Road	St	Saint
Res	Reservoir	Terr	Territory

Name - Map Page(s)

- Aberdeen - 42
 Adams Co - 9
 Adyeville - 84
 Aix - 42
 Alblion - 9, 50
 Alexandria - 42, 78
 Algiers - 42
 Alien Co - 9
 Alvarado - 42
 Anderson - 9, 11, 41, 46, 47, 48, 50, 52, 55, 75, 76, 77, 78, 80, 81, 82, 83
 Andersontown - 9
 Angel Mounds SM - 83
 Angola - 9, 42, 78, 83
 Antioch (Clinton Co) - 42
 Antioch (Greene Co) - 42
 Antioch (Jay Co) - 42
 Arcadia - 42
 Argos - 42
 Armiesburg - 9
 Athens - 42
 Atterbury SFGA - 83
 Attica - 42
 Auburn - 9, 29, 55
 Aurora - 49, 78, 79
 Avonburg - 42
 Ayrshire - 42
 Bartholomew Co - 9
 Bass Lake SB - 83
 Bedford - 9, 23, 29, 52, 55, 76, 77, 81, 83, 85
 Bengal - 42
 Benton Co - 9
 Berne - 42
 Bethlehem - 42
 Big Blue R - 18
 Birmingham - 42
 Blackford - 9
 Blackford Co - 9
 Blackwell Pond RA - 85
 Bloomfield - 9, 76
 Bloomington - 9, 11, 12, 14, 15, 16, 17, 19, 20, 23, 41, 46, 47, 48, 49, 52, 56, 76, 77, 79, 81, 82, 83, 84, 85
 Blue R - 18
 Bluffton - 9, 78, 79, 83
 Boone Co - 9
 Boones Pond SRA - 83
 Booneville - 9, 76, 78, 83, 84
 Bowling Green - 9
 Branchville Pond RA - 85
 Brazil - 9, 29, 42, 78, 84
 Breman - 42
 Bristol - 42
 Brookville - 9
 Brookville Res - 19
 Brown Co - 9
 Brown Co SP - 83
 Brownstown - 9, 84, 85
 Brownsville - 9
 Brush Creek SFGA - 83
 Burlington - 9
 Buzzard Roost RA - 84
 Cadiz - 42
 Cagles Mill Res - 19
 Cairo - 42
 Caledonia - 42
 Calumet Plain - 14
 Cambria - 42
 Cambridge City - 42
 Canaan - 42
 Cannetton - 9, 49, 51, 84, 85
 Canton - 42
 Capitol, First State SM - 83, 84
 Cardonia - 42
 Carey Mission (treaty area) - 7
 Carlisle - 9
 Carroll Co - 9
 Carrollton - 9
 Carthage - 42
 Cass Co - 9
 Celina Lake RA - 85
 Centerville - 9
 Ceylon - 42
 Chain O'Lakes SP - 83
 Charlestown - 9, 78
 Chelsea - 42
 Chester - 42
 Chicago (treaty area) - 7
 China - 42
 Christ of the Ohio - 84
 Clark Co - 8, 9
 Clark, George Rogers NM - 83
 Clark SF - 84
 Clark's Grant - 7
 Clay City - 76
 Clay Co - 9
 Cliffton Falls SP - 83
 Clinton - 78
 Clinton Co - 9
 Cloverdale - 79
 Columbia - 9
 Columbia City - 9
 Columbus - 9, 29, 47, 48, 49, 50, 57, 75, 76, 77, 78, 81, 83
 Connersville - 9, 29, 49, 55, 74, 76, 77, 78
 Corunna - 42
 Corydon - 8, 9, 83, 84
 Covington - 9
 Crawford Co - 9
 Crawfordsville - 9, 11, 29, 49, 76, 77, 78, 79
 Crawford Upland - 14, 15
 Crete - 42
 Crosley SFGA - 83
 Crown Point - 9, 78
 Cuba (Allen Co) - 42
 Cuba (Owen Co) - 42
 Cuoco - 42
 Cypress Lake SFA - 83
 Dale - 83, 84
 Danville - 9, 78, 79
 Darlington - 9
 Darmstadt - 42
 Daviess Co - 9
 Dearborn Co - 8, 9
 Dearborn Upland - 14, 15
 Decatur - 9, 29, 50, 78, 79, 83
 Decatur Co - 9
 Deer Pond RA - 85
 DeKalb Co - 9
 Delaware Co - 9
 Delphi - 9, 42
 Denmark - 42
 Dover - 42
 Dover Hill - 9
 Dublin - 42
 Dubois Co - 9
 Dundee - 42
 Dunkirk - 42
 Dunlap - 9
 Dunreith - 78
 Durbin - 42
 Durham - 42
 East Chicago - 41, 46, 47, 48, 49, 50, 52, 54, 55, 58, 59, 77, 80, 81
 Edinburg - 42
 Eel R - 14, 15, 18
 Elizabethtown - 42
 El Cr SFA - 83
 Elkhart - 41, 46, 47, 48, 49, 50, 51, 53, 55, 59, 75, 77, 78, 81, 82
 Elkhart Co - 9
 Elkhart R - 18
 Ellettsville - 23
 Elwood - 29, 46, 47, 48, 50, 52, 55, 78
 English - 9, 84, 85
 English RA - 85
 Evansville - 9, 11, 12, 14, 15, 16, 17, 19, 20, 23, 41, 46, 47, 48, 49, 50, 51, 52, 53, 55, 57, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85
 Falmouth - 42
 Fayette Co - 9
 Ferdinand - 84
 Ferdinand SF - 84
 Flatrock R - 18
 Floyd Co - 9
 Fort Wayne - 9, 11, 12, 14, 15, 16, 17, 19, 20, 23, 41, 46, 47, 48, 49, 50, 53, 54, 55, 56, 57, 58, 59, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 85
 Fort Wayne (treaty area) - 7
 Fountain Co - 9
 Fowler - 9
 Frankfort - 9, 42, 77, 78, 79
 Franklin - 9, 29
 Franklin Co - 8, 9
 Fredonia - 9
 Freetown - 42
 French Lick - 79, 85
 Fulton Co - 9
 Gary - 11, 12, 14, 15, 16, 17, 41, 46, 47, 48, 49, 50, 52, 54, 55, 58, 59, 75, 77, 78, 79, 80, 81, 82, 83, 85
 Geneva - 42, 78
 Georgetown (Floyd Co) - 42
 Georgetown (Randolph Co) - 42
 German Ridge RA - 84
 Gibson Co - 8, 9
 Glendale SFGA - 83
 Goshen - 9, 11, 29, 46, 47, 48, 49, 50, 51, 53, 55, 59, 78, 79
 Grant Co - 9
 Greencastle - 9, 11, 75, 76, 77, 78, 79, 83
 Greene Co - 9
 Greenfield - 9
 Greensburg - 9, 29, 77, 78, 79
 Greensburg Res SFA - 83
 Green - Sullivan SF - 84
 Green Valley SFA - 83
 Greenville (treaty area) - 7
 Grouseland (treaty area) - 7
 Grouse Ridge SFA - 83
 Guernsey - 42
 Hamburg - 42
 Hamilton Co - 9
 Hammond - 11, 41, 46, 47, 48, 49, 50, 52, 54, 55, 58, 59, 76, 80, 81
 Hancock Co - 9
 Hardin Ridge RA - 85
 Harmonie SRA - 83
 Harrison Co - 8, 9
 Harrison - Crawford SF - 84

Harrisonville - 9
 Hartford City - 9
 Hemlock Cliffs RA - 85
 Hendricks Co - 9
 Henry Co - 9
 Hickory Grove Pond RA - 85
 Hindostan - 9
 Hindostan Falls SFA - 83
 Hindustan - 42
 Hobart - 29, 42
 Holland - 42
 Hollardsburg - 42
 Honduras - 42
 Hoosier National Forest - 84, 85
 Hovey Lake SFGA - 83
 Howard Co - 9
 Howe - 9
 Huntingburg - 84
 Huntington - 9, 11, 19, 29, 48, 55, 56, 75, 78, 79, 83, 84
 Huntington Co - 9
 Huntington Res - 19
 Illinois Terr - 8
 Indianapolis - 9, 11, 12, 14, 15, 16, 17, 19, 20, 23, 41, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 85
 Indiana Terr SM - 83
 Indian Lake RA - 85
 Ireland - 42
 Iroquois R - 18
 Jacksonburg - 9
 Jackson Co - 8, 9
 Jackson - Washington SF - 84
 Jamestown - 9
 Jacksonville - 83
 Jasper - 9, 29, 46, 49, 51, 76, 77, 79, 83, 84
 Jasper Co - 9
 Jasper - Pulaski SFGA - 83
 Jay Co - 9
 Jefferson - 9
 Jefferson Co - 8, 9
 Jeffersonville - 9, 11, 29, 47, 48, 49, 51, 58, 75, 76, 77, 78
 Jennings Co - 9
 Jericho - 42
 Johnson Co - 9
 Jordan - 42
 Kankakee Plain - 14
 Kankakee R - 15, 18, 19
 Kankakee SFGA - 83
 Kendallville - 29, 50, 78, 83
 Kent - 42
 Kentland - 9, 42
 Kingsbury SFGA - 83
 Klondyke (Parke Co) - 42
 Klondyke (Yermillion Co) - 42
 Knox - 9
 Knox Co - 8, 9
 Kokomo - 9, 11, 15, 41, 46, 47, 48, 49, 54, 55, 75, 76, 77, 78, 79, 81, 82, 83
 Kosciusko Co - 9
 Laconia - 42
 Lafayette - 9, 11, 12, 14, 15, 16, 17, 20, 41, 46, 47, 48, 49, 50, 55, 56, 57, 74, 75, 76, 77, 78, 79, 81, 82, 83
 Lafayette Springs - 84
 Lagrange - 9
 La Grange Co - 9
 Lake Co - 9
 Lancaster - 9, 42
 Lanier, James, Home SM - 83
 Lapland - 42
 La Porte - 9, 29, 46, 47, 48, 49, 50, 51, 54, 55, 57, 59, 78, 79, 83
 La Porte Co - 9
 La Salle SFGA - 83
 Laughery Cr - 14
 Lawrenceburg - 9, 29, 49
 Lawrence Co - 9, 23
 Leavenworth - 9, 84, 85
 Lebanon - 9, 42, 76, 79
 Leipzig - 42
 Lopez - 42
 Lexington - 9
 Liberty - 9, 83
 Lieber SP - 83
 Ligonier - 50
 Lime - 9
 Limberlost SM - 83
 Lincoln Boyhood NM - 83, 84
 Lincoln Ferry Park - 84
 Lincoln Heritage Trail - 84
 Lincoln Hills - 84
 Lincoln Pioneer Village - 84
 Lincoln SP - 83, 84
 Linton - 79, 84
 Lisbon - 42
 Liverpool (Davies Co) - 9
 Liverpool (Lake Co) - 9
 Livonia - 42
 Logansport - 9, 29, 46, 47, 49, 55, 56, 74, 75, 76, 77, 78, 79, 81, 83
 London - 42
 Lost Bridge SRA - 83
 Lucerne - 42
 Lyons - 42
 Madison - 9, 14, 20, 29, 74, 75, 76, 77, 79, 83, 84
 Madison Co - 9
 Manchester - 42
 Manilla - 42
 Mansfield Res - 19
 Marengo Cave - 84
 Marion (Grant Co) - 9, 11, 41, 46, 47, 48, 49, 52, 54, 55, 76, 77, 78, 79, 81, 82, 83, 84
 Marion (Ripley Co) - 9
 Marion Co - 9
 Marshall Co - 9
 Martin Co - 9
 Martindale SFA - 83
 Martin SF - 84
 Martinsville - 9, 78, 79, 84
 Mauckport - 84
 Maumee (treaty area) - 7
 Maumee Plain - 14
 Maumee R - 15, 18
 McCormick's Creek SP - 83
 Mecca - 42
 Memphis - 9, 42
 Meron - 9
 Metz - 42
 Mexico - 42
 Miami Co - 9
 Miamisport - 9
 Miami SRA - 83
 Michigan (Lake) - 14
 Michigan City - 11, 41, 46, 47, 48, 49, 50, 51, 54, 55, 57, 59, 75, 77, 78, 79, 83
 Michigan Rd - 74
 Michigan Terr - 8
 Milan - 42
 Mishawaka - 11, 41, 46, 47, 48, 49, 50, 53, 54, 55, 56, 57, 59
 Mississinewa (treaty area) - 7
 Mississinewa R - 15, 18
 Mississinewa Res - 19
 Mitchell - 23, 83, 85
 Mitchell Plain - 14, 15
 Monroe Co - 9, 23
 Monroe Res - 19, 85
 Monroe Res SRA - 83
 Monrovia - 42
 Monterey - 42
 Montgomery Co - 9
 Monticello - 9, 79
 Montmorenci - 42
 Morgan Co - 9
 Morgan - Monroe SF - 84
 Morocco - 42
 Moscow - 42
 Mounds SP - 83
 Mt Pleasant - 9
 Mt Sterling - 9
 Mt Vernon - 9, 29, 78
 Muncie - 9, 11, 14, 15, 41, 46, 47, 48, 49, 50, 54, 55, 57, 59, 76, 77, 78, 79, 80, 81, 82, 83
 Munster - 29, 42
 Muscat - 42
 Muscatatuck R - 18
 Muscatatuck Regional Slope - 14, 15
 Nashville - 9, 83, 84, 85
 National Rd - 74
 New Albany - 9, 12, 14, 15, 16, 17, 23, 41, 47, 48, 49, 51, 74, 75, 76, 77, 78, 79, 80, 81, 83, 84
 New Alsace - 42
 New Amsterdam - 42
 New Bath - 42
 New Castle - 9, 29, 47, 49, 54, 78, 79, 83
 New Elizabethtown - 42
 New Frankfurt - 42
 New Harmony - 83
 New Harmony SM - 83
 New Holland - 42
 New Lancaster - 42
 New Lebanon - 42
 New Lisbon - 42
 New London - 42
 New Palestine - 42
 New Paris - 42
 Newport - 9
 New Purchase (treaty area) - 7
 New Salisbury - 42
 Newton Co - 9
 Nineveh - 42
 Noble Co - 9
 Noblesville - 9
 Norman Upland - 14, 15
 Northern Lake and Moraine Region - 14, 15
 North Vernon - 77, 83, 84
 Norway - 42
 Nottingham - 42
 Ohio Co - 9
 Ohio R - 14, 15, 18, 84, 85
 Old Bath - 42
 Oldenburg - 42
 Ontario - 42
 Oolitic - 23, 85
 Orange Co - 8, 9
 Oriole Pond RA - 85
 Orleans - 42, 85
 Owen Co - 9
 Owen - Putnam SF - 84
 Oxford - 9, 42
 Palestine (Franklin Co) - 42
 Palestine (Kosciusko Co) - 42
 Palestine (Lawrence Co) - 9
 Palmyra - 42
 Paoli - 9, 79, 85
 Paris - 42
 Parish Grove - 9
 Parke Co - 9
 Patoka R - 15, 18
 Patoka Res - 19
 Patoka SFGA - 83
 Pekin - 42
 Pendleton - 9
 Perry Co - 8, 9
 Perth - 42
 Peru - 9, 19, 29, 42, 75, 78, 83
 Petersburg - 9, 42, 84
 Pigeon R - 15, 18
 Pigeon Roost Massacre SM - 83
 Pigeon R SFGA - 83
 Pike Co - 9
 Pike SF - 84
 Pioneer Mothers Memorial Forest - 85
 Pleven - 42

Plymouth - 9, 42, 79
 Pokagon SP - 83
 Poland - 42
 Porter Co - 9
 Porter, Gene Stratton SM - 83
 Portersville - 9
 Portland - 9, 29, 78, 79
 Port Mitchell - 9
 Posey Co - 8, 9
 Princeton - 9, 78, 79
 Pulaski Co - 9
 Putnam Co - 9
 Quabache SRA - 83
 Raccoon Lake SRA - 83
 Randolph Co - 9
 Rensselaer - 9, 76
 Richmond - 9, 11, 12, 14, 15, 17, 23, 41, 46, 47, 48, 59, 55, 57, 74, 75, 76, 77, 78, 81, 83
 Ripley Co - 9
 Rising Sun - 9
 Rochester - 9, 42, 79
 Rockport - 9, 76, 78, 84
 Rockville - 9, 83
 Rome - 9, 42, 84, 85
 Rome City - 42
 Rush Co - 9
 Rushville - 9, 78, 79
 Russelville - 42
 Saddle Lake RA - 85
 St Croix - 42, 85
 St Joseph - 9
 St Joseph Co - 9
 St Joseph R (near South Bend) - 15, 18
 St Joseph's R - 15, 18
 St Marys R - 14, 15, 18
 St Meinrad Abbey - 84
 Salamonie Res - 19
 Salamonie R SF - 84
 Salem - 9, 84
 Salisbury - 9
 Saltville - 42
 Samaria - 42
 Sand Cr - 18
 San Jacinto - 42
 Santa Claus Land - 84
 Santa Fe - 42
 Sardinia - 42
 Scales Lake SB - 83, 84
 Scotland - 42
 Scott Co - 9
 Scott Millpond SFA - 83
 Scottsburg - 9, 78
 Scottsburg Lowland - 14, 15
 Sealmier SF - 84
 Seavastopol - 42
 Seymour - 75, 78, 79, 81
 Shadys SP - 83
 Shakamak SP - 83
 Shanghai - 42
 Shelby Co - 9
 Shelbyville - 9, 29, 52, 74, 75, 77, 78, 79
 Shoals - 9, 84, 85
 Siberia - 42
 Sidney - 42
 Slocum, Frances SRA - 83
 Smyrna - 42
 South Bend - 9, 11, 14, 16, 17, 20, 23, 41, 46, 47, 48, 49, 50, 53, 54, 55, 56, 57, 59, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83
 Sparta - 9, 42
 Spencer - 9, 83
 Spencer Co - 9
 Splitter - 9
 Springfield - 9
 Spring Mill SP - 83
 Springs Valley SFGA - 83
 Starke Co - 9
 Starve Hollow Beach - 84
 Steele, TC, Home SM - 83
 Steuben Co - 9
 Steuben Morainal Area - 14
 Sugar Cr - 15, 18
 Sullivan - 9, 78
 Sullivan Co - 9
 Sulphur - 85
 Sulphur Pond RA - 85
 Sulphur Springs - 84
 Switzerland Co - 8, 9
 Syracuse - 42
 Syria - 42
 Tampico - 42
 Tangier - 42
 Tell City - 29, 49, 51, 79, 84, 85
 Terra Haute - 9, 11, 12, 14, 15, 16, 17, 20, 23, 41, 46, 47, 48, 49, 50, 54, 58, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84
 Tincher Pond RA - 85
 Tippecanoe (treaty area) - 7
 Tippecanoe Battlefield SM - 83
 Tippecanoe Co - 9
 Tippecanoe R - 15, 18
 Tippecanoe R SP - 83
 Tipsaw Lake RA - 85
 Tipton - 9, 14, 78
 Tipton Co - 9
 Tipton Till Plain - 14, 15
 Tiptontown - 9
 Toledo - 42
 Trenton Field - 23
 Tri-County SFGA - 83
 Troy - 9, 42, 85
 Turkey Run SP - 83
 Union Co - 9
 Unorganized Area - 8
 Utica - 42
 Vallenia - 9, 42, 85
 Valparaiso - 9, 11, 14, 29, 42, 74, 75, 78
 Valparaiso Morainal Area - 14
 Vanderburgh Co - 9
 Vera Cruz - 42
 Vermillion Co - 9
 Vernon - 9
 Verone - 42
 Versailles - 9, 42, 83
 Versailles SP - 83
 Vevey - 9
 Vienna - 42
 Vilgo Co - 9
 Vincennes - 8, 9, 11, 15, 23, 29, 46, 47, 52, 74, 75, 76, 79, 81, 83, 84
 Vincennes (treaty area) - 7
 Wabash - 9, 29, 46, 49, 52, 56, 78, 79, 83, 84
 Wabash (treaty area) - 7
 Wabash and Erie Canal - 74
 Wabash Co - 9
 Wabash Lowland - 14, 15
 Wabash R - 14, 15, 18, 19, 74
 Wadesboro - 42
 Warren Co - 9
 Warrentown - 9
 Warrick Co - 8, 9
 Warsaw - 9, 29, 42, 47, 48, 49, 55, 78, 79, 83
 Washington - 9, 29, 50, 74
 Washington Co - 8, 9
 Waterloo (DeKalb Co) - 42, 78
 Waterloo (Fayette Co) - 42
 Wawasee Lake SB - 83
 Wayne Co - 8, 9
 Weil's Co - 9
 West Baden - 42
 West Fork Tower RA - 85
 West Lebanon - 42
 Westphalia - 42
 White Co - 9
 White Oak SFA - 83
 White R - 14, 15, 18, 19, 74
 Whitewater Canal - 74
 Whitewater Canal SM - 83
 Whitewater R - 14, 15, 18, 19
 Whitewater SP - 83
 Whitley Co - 9
 Wildcat Cr - 15
 Williams Dam SFA - 83
 Williamsport - 9
 Willow Slough SFGA - 83
 Winamac - 9
 Winamac SFGA - 83
 Winchester - 9, 29, 49, 55
 Winsor - 42
 Wright, Wilbur SM - 83
 Wyandotte Caves - 84
 Yellowwood SF - 84
 York - 42
 Zulu - 42

INDEX

Subject - Map Page(s)

- Airline flights, scheduled - 82
- Agriculture - See Crops, Farming, Farms
- Animals, cattle and calves - 71
 - farm - 60
 - hogs and pigs - 70
 - sheep and lambs - 72
- Beaches, state - 83, 84
- Businesses - 44
 - retail trade - 47
 - service trades - 45
 - wholesale trade - 47
- Canals, early routes - 74
- Cattle and calves, distribution - 71
 - number - 71
- Chemical Industries - 58
- Cities and towns - 10
 - major urban areas - 41
 - population 1,000-25,000 - 29
 - toponymy - 42
- Clay and shale - 22
- Climate - 24, 25, 26, 27, 28
- Coal - 23
- Colleges and universities - 11
- Corn, acreage - 64
 - as a percent of all cropland - 64
 - popcorn acreage - 65
 - sweet corn acreage - 65
- Counties - 10
 - and county seats - 9
 - and townships - 10
 - 1816 - 8
 - establishment dates - 9
- Cropland, all - 62
 - harvested - 62
 - pastured - 63
- Crops, cash grains - 60
 - corn - 64
 - feed grains - 60
 - oats - 68
 - popcorn - 65
 - soybeans - 67
 - sweet corn - 65
 - tobacco - 69
 - tree fruits, nuts, and grapes - 69
 - truck - 60
 - value of all agricultural products sold - 73
 - vegetables - 69
 - wheat - 66
- Dairying - 60
- Drainage - 18
 - basins - 18
- Education, higher - 11
 - population with high school - 38
 - 16 and 17 year olds in school - 38
- Employees, all businesses - 44
- chemical industries - 58
 - electrical machinery industries - 56
 - fabricated metal products industries - 55
 - food industries - 50
 - lumber, furniture, and other wood products industries - 51
 - manufacturing industries - 48
 - mineral industries - 21
 - non-electrical machinery industries - 57
 - primary metal industries - 54
 - retail trade - 47
 - rubber and plastic products industries - 53
 - service trades - 45
 - stone, clay and glass industries - 52
 - transport equipment industries - 59
 - wholesale trade - 46
- Farms, average size - 61
 - land in - 60
 - land values - 61
 - population - 36
- Farming, types of - 60
 - value of all agricultural products sold - 73
- Fish and game areas, state - 83
- Fishing areas, state - 83
- Food industries - 50
- Forest, lookout towers - 85
 - national land - 84, 85
 - types - 20
- Forests, state - 84
- Gas, natural - 23
- Geology, bedrock - 17
 - glacial - 16
- Grapes, acreage - 69
- Gravel and Sand - 22
- Ground water - 19
- Growing season, length of - 28
- Highways - see roads
- Hogs and pigs, distribution - 70
 - number - 70
- Income, family - 40
 - personal - 39
- Industries - see businesses, manufacturing
- Interurban electric railroads - 78, 79
- Limestone - 23
- Lumber, furniture, and other wood products industries - 51
- Machinery, electrical, industries - 56
 - non-electrical, industries - 57
- Manufacturing, all industries - 48
 - chemical industries - 58
 - electrical machinery - 56
 - fabricated metal products - 55
 - food - 50
 - lumber, furniture and other wood products - 51
 - non-electrical machinery - 57
 - primary metal - 54
 - rubber and plastic products - 53
 - stone, clay and glass - 52
 - transport equipment industries - 59
 - value added - 49
- Memorials, national - 83
 - state - 83, 84
- Metal, primary, industries - 54
- Metal products, fabricated, industries - 55
- Mineral Resources - 22, 23
- Minerals, employees in industries - 21
 - employees in stone, clay and glass industries - 52
- Mines - 22, 23
- Nuts, acreage - 69
- Oats, acreage - 68
 - as a percent of all cropland - 68
- Oil - 23
- Parks, state - 83, 84
- Petroleum - 23
- Physiography, regions - 14
 - state diagram - 15
- Precipitation, average annual - 26
 - average January - 27
 - average July - 27
 - snowfall - 28
- Population, change, 1860-1960 - 34
 - change, 1950-1960 - 35
 - change, 1960-1966 - 35
 - density - 32, 33
 - distribution, 1860 - 30
 - distribution, 1960 - 31
 - non-white - 37
 - rural farm - 36
 - rural non-farm - 36
 - settlements - 29
 - urban, 1960 - 37
 - urban change - 43
- Quarries - 22, 23
- Railroads, early routes - 74
 - electric interurban - 78
 - electric interurban, proposed - 79
 - passenger traffic flow, 1869 - 75
 - routes, 1880 - 76
 - routes, 1969 - 77
- Rainfall - 26, 27
- Recreation areas, national forest - 84, 85
 - state - 83
- Relief, generalized - 12
- Reservoirs, major - 19
- Rivers - 18
 - discharge - 19
 - early routes of transportation - 74
- Roads, early routes - 74
 - interstate routes - 80
 - state and national highways - 81
- Rubber and plastic products industries - 53
- Runoff, average annual - 19
- Sand and gravel - 22
- Service trades, employees - 45
- Sheep and lambs, distribution - 72
 - number - 72
- Shale and clay - 22
- Snowfall, average annual - 28
- Soils - 13
- Soybeans, acreage - 67
 - as a percent of all cropland - 67
- Stone, clay, and glass industries - 52
- Stone, crushed - 22
 - dimension - 23
- Temperature, average annual - 24
 - average January - 25
 - average July - 25
 - length of growing season - 29
- Tobacco, acreage - 69
- Topography, generalized - 12
- Toponymy, cities and towns - 42
- Townships - 10
- Tractors, field - 63
- Trade, retail, employees - 47
 - retail, sales - 47
 - wholesale, employees - 46
 - wholesale, sales - 46
- Trades, service, employees - 45
- Treaties, Indian - 7
- Tree fruits, acreage - 69
- Transportation, airline flights - 82
 - canals - 74
 - early routes - 74
 - equipment industries - 59
 - interurban electric - 78, 79
 - railroads - 74, 75, 76, 77, 78, 79
 - roads - 74, 80, 81, 83, 84, 85
- Urban, areas - 41
 - population - 37
 - population change - 43
- Vegetables, acreage - 69
- Vegetation, natural - 20
- Water, ground - 19
- Water resources - 19
- Watershed areas - 18
- Wheat, acreage - 66
 - as a percent of all cropland - 66

- 75 Edward Vernon (comp.), Travelers' Official Railway Guide for the United States and Canada, New York: J. W. Pratt, June, 1869 (fascimile edition printed for National Railway Publication Company, 1969); The Official Guide of the Railways, New York: National Railway Publication Company, June, 1969.
- 76 Emma Lou Thornbrough, Indiana in the Civil War Era, 1850-1880, Indianapolis: Indiana Historical Bureau and Indiana Historical Society, 1965, pp. 350-1, map originally compiled from Henry I. Poor (comp.), Manual of the Railroads of the United States, New York: Henry Poor, 1880, pp. 689-690.
- 77 The Official Guide of the Railways, op. cit.
- 78 Cottman and Hyman, op. cit., p. 165; G. W. Hilton and John F. Dull, The Electric Interurban Railways in America, Stanford: University Press, 1964; Wayne E. Butterbaugh (ed.), Atlas of Traffic Maps, Chicago: LaSalle Extension University, 1925; Jerry Marlette, Electric Railroads of Indiana, Indianapolis: Council for Local History, 1959.
- 79 Jerry Marlette, op. cit.
- 80 State Highway Commission, Indiana, Status of Interstate Highways in Indiana (map), Indianapolis: August 1, 1969.
- 81 State Highway Commission, Indiana, Official Highway Map, Indianapolis: 1969.
- 82 Official Airline Guide, August 15, 1969, Chicago: Reubon H. Donnelley, 1969.
- 83 Robert C. Kingsbury, op. cit., p. 40; Indiana State Highway Commission, op. cit.
- 84 Robert C. Kingsbury, op. cit., pp. 24, 49.
- 85 Ibid, p. 54; Hoosier National Forest (map), Forest Service, U.S. Department of Agriculture, Bedford, Indiana, 1966 (with corrections to 1970 by Robert W. Blumer as supplied by Hoosier National Forest headquarters).

