

AN ATLAS OF  
THE NORTHEAST MICHIGAN REGION

# NEMCOG



Northeast Michigan Council  
of Governments

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June 30, 1976

To: Commission Members

Gentlemen:

It is a pleasure to submit to you the following document entitled "An Atlas of the Northeast Michigan Region." This study graphically portrays the multiple facets that make up the character of the northeast sector of the lower peninsula of the State of Michigan.

The preparation of this study was part of the region's comprehensive planning program, financed in part through financial assistance from the Department of Housing and Urban Development and administered by the State of Michigan.

The primary purpose of this study is to advance a better understanding of the Region's unique character. This study also reflects the inter relationships of various characteristics on the intra-regional governmental units that comprise the region.

Sincerely,

Howard L. Anderson  
Chief Planner

hla/ncd

4. Title and Subtitle  An Atlas of The Northeast Michigan Region		5. Report Date 6/76 Date of issue
7. Author(s) Northeast Michigan Council of Governments		6.
9. Performing Organization Name and Address  Northeast Michigan Council of Governments 131 Shipp Street P.O. Box 457 Gaylord, MI 49735		8. Performing Organization Rept. No.  10. Project/Task/Work Unit No.
12. Sponsoring Organization Name and Address  Same as performing organization		11. Contract/Grant No.  P-396-371
15. Supplementary Notes  An "Atlas"		13. Type of Report & Period Covered  14. Final
16. Abstracts  This "Atlas" is primarily designed to graphically portray the areal distribution of the multiple facets that make up the character of the Northeast Michigan Region. As stated in the preface, this study is for use by all who are interested in this area of the State of Michigan.		
17. Key Words and Document Analysis. 17a. Descriptors		
17b. Identifiers/Open-Ended Terms		
17c. COSATI Field/Group		
18. Availability Statement  Copies Available		19. Security Class (This Report) UNCLASSIFIED
		20. Security Class (This Page) UNCLASSIFIED
		21. No. of Pages 78 & III
		22. Price

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## PREFACE

This atlas was prepared to be used by all who are interested in Northeast Michigan (State Planning District #9). The area is composed of the counties of Alcona, Alpena, Cheboygan, Crawford, Montmorency, Oscoda, Otsego and Presque Isle.. It is offered as a reference tool for better understanding the areal distribution of the many characteristics which go to make up this sector of the State of Michigan.

All characteristics portrayed represent the most recent data that is available. In many cases, data had to be generalized to fit the scale of the standardized maps that were used for the atlas. Source materials used and mapping in greater detail are available at the offices of the Northeast Michigan Council of Governments\*.

The format of this atlas is fashioned similiar to the "Atlas of Michigan", prepared by Earl J. Senninger Jr. (1970). The materials portrayed are arranged along the lines of the P.A.S.E. system of classification (People-Activities-Services-Environment) used in the Region's report entitled " A Regional Planning Handbook" (1974).

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**PEOPLE**

# The Planning Approach...

In order to efficiently study any subject one must first have a clear and concise picture of what exactly is being considered. For the purposes of approaching the regional community we have separated the study into four basic elements: People, Activities, Services and Environment. All the various elements which should be studied to adequately understand our region can be classified under one of these four major elements. A complete breakdown as to the areas studied and how they are categorized is as follows:

<u>PEOPLE</u>	<u>ACTIVITIES</u>
History	Residential
Population	Agriculture
Education	Commercial
Health & Welfare	Industrial
Economy	Recreation
Government	Public

<u>SERVICES</u>	<u>ENVIRONMENT</u>
Communications	Land
Energy Supply	Water
Waste Disposal	Air
Transportation	Resources

To simply express how these various elements interact is to suggest that People have Activities and Services which influence the Environment. To clearly express what the four major elements are, a discussion of each follows.

## PEOPLE:

One of the most difficult duties we have as a

regional planning agency is to discover the needs and wants of the 94,000 plus people in our region which are spread over a 5,000 square mile area. Although some characteristics and needs are common to all people, others differ because of the differences of age, sex, race, religion, income, education, skills, etc. What we must achieve is to provide the needed opportunities within the desired environment.

The 'People' element has been seen as consisting of History, Population, Education, Health & Welfare, Economy and Government. History to provide us with examples from the past; Population information to provide data about our people; Education Surveys to let us know the region's people general character and abilities; Health & Welfare to give us insight into human physical needs; Economic information to provide advice on how the region's people make their living; and Governmental information and structure to illustrate how people rule themselves and provide for their collective needs.

Once all this data relevant to man and society is collected, a clear picture of the region's people and their institutions begins to form. With this information we can begin to prepare for the social needs of the region and develop the human resource.

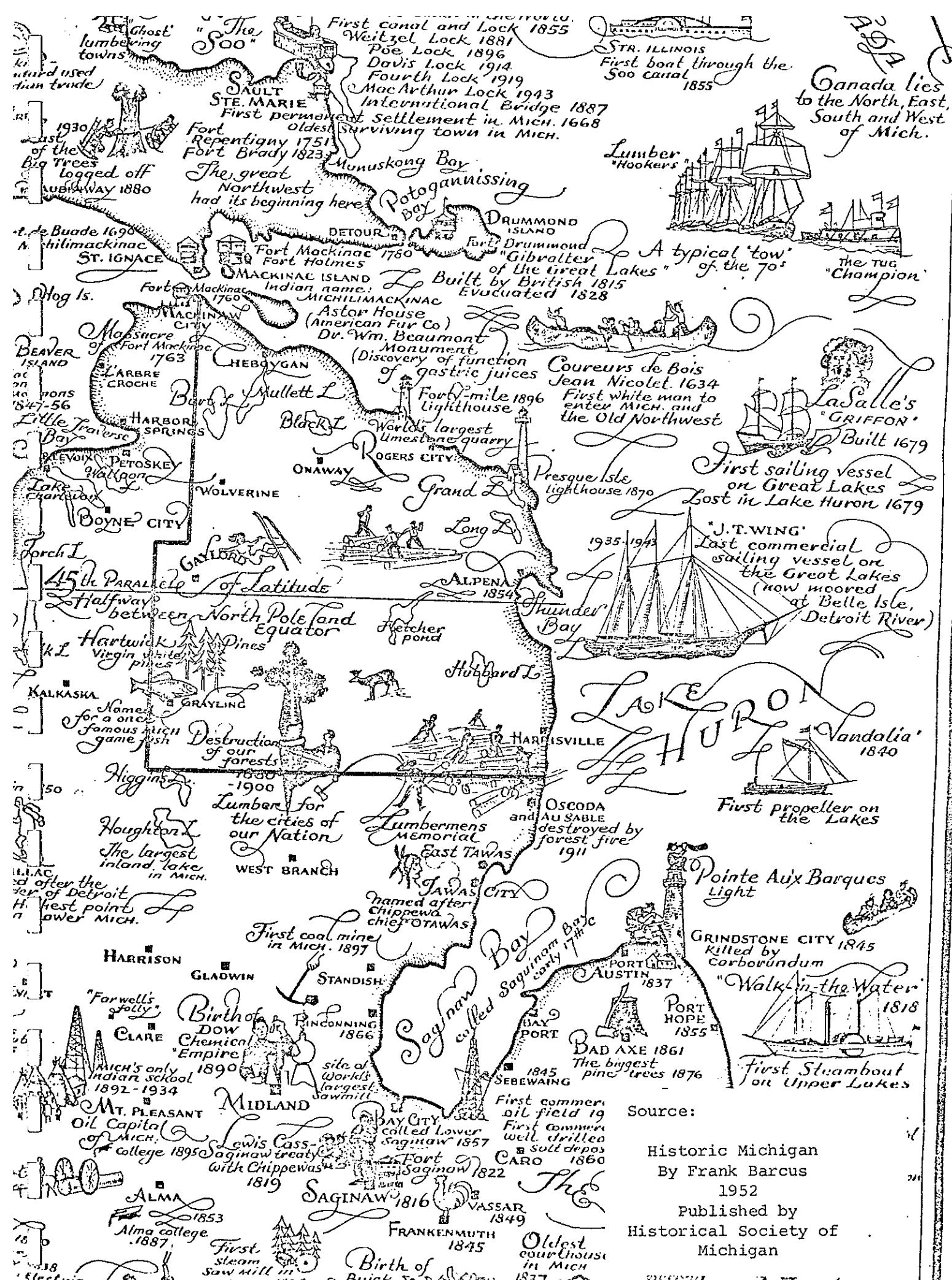
## ACTIVITIES:

People in the course of their everyday lives create activities; activities which must be regulated to insure that each person does not infringe upon the rights of others. These activities can be separated into six basic and distinct activities: Residential, Agricultural, Commercial, Industrial, Recreational and Public.

# The PASE System

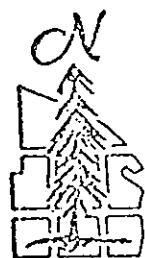
There are many ways in which you can approach a community or region to study its contents. One of the prime factors in approaching any subject in a systematic way is to simplify it so we can easily understand what is happening. That is why the P.A.S.E. System was developed by the Regional Commission. If a subject as complicated as human society and settlements can be logically broken into only four physical elements, then a tool is available to study and improve man and his community.

Sometimes items will be discussed or situations arise in which it may seem appropriate to utilize more than one of the four elements in this system. When this occurs our procedure is to place the item in its most logical PASE element and attempt to be consistent throughout the process of study and review. Hopefully, a simple approach to man's community will provide the means whereby we easily gain knowledge to develop and implement practical, working solutions to regional problems.

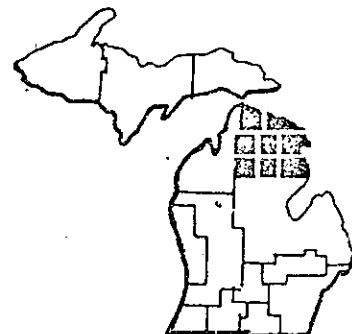


COUNTY NAME ORIGIN  
AND  
DATE OF ORGANIZATION

<b>CHEBOYGAN</b> First Applied to River (Indian)		
	1853	PRESQUE ISLE  "Narrow Peninsula" (French)
		1871
OTSEGO  "Clear Water" Meeting Place (Iroquoian)	MONTMORENCY  Count Montmorency Which One Unknown	ALPENA  "The Bird" H.R. Schoolcraft Word
1875	1881	1857
CRAWFORD  Named for Col. William Crawford	OSCODA  "Stone Prairie" (Ojibwa)	ALCONA  "Excellent Prairie" (Arabic)
1879	1881	1859

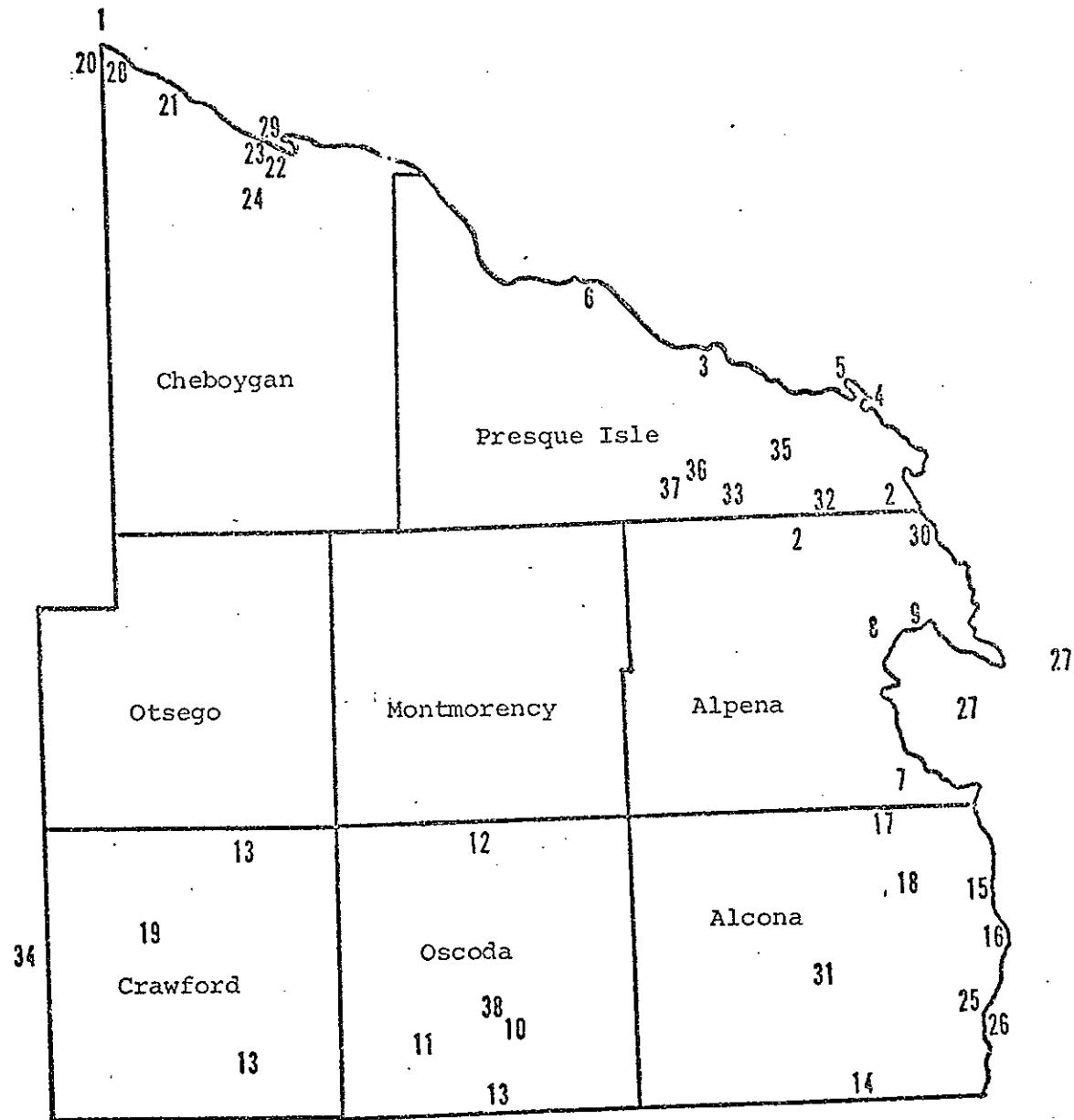


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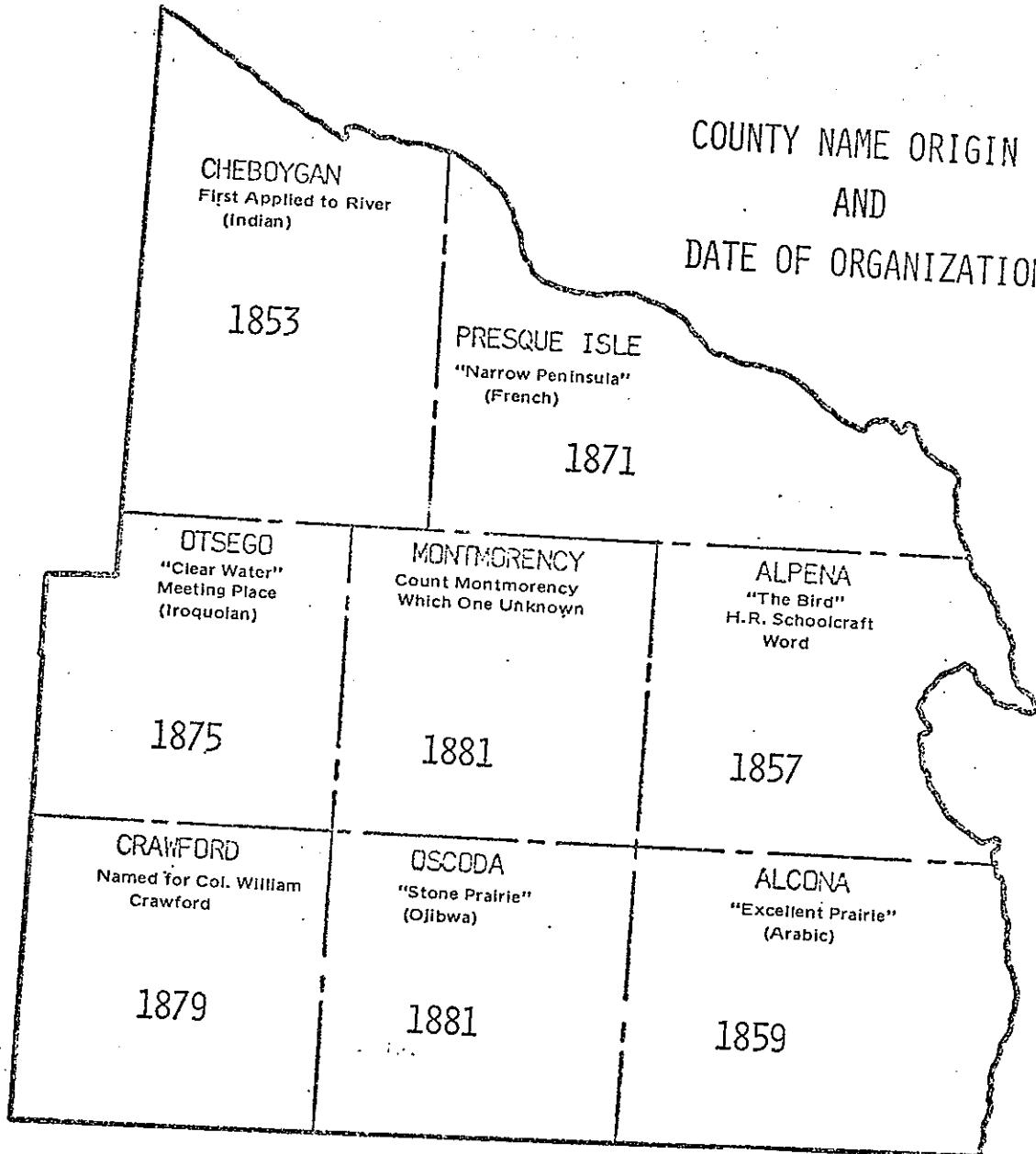
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## LOCATION OF HISTORIC AND ARCHEOLOGIC SITES

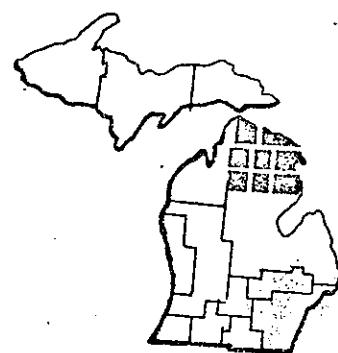


1. Mackinaw Bridge
2. Sink Holes
3. U.S. Steel Limestone Quarry (World's Largest)
4. Old Presque Isle Lighthouse
5. Presque Isle Lighthouse
6. Sacred Rock
7. Domke's Prehistorical Zoo Gardens
8. Besser Museum
9. Huron-Portland Cement Plant (World's Largest)
10. Kirtland's Warbler Monument
11. Luzerne Fire Site
12. Steiner Museum
13. Kirtland's Warbler Nesting Area
14. Chippewa Indian Settlement
15. Alcona Ghost Town
16. Sturgeon Point Lighthouse
17. Paul Bunyan and Babe, His Blue Ox
18. Hall of Ancient Man
19. Hartwick Pines Area (Virgin White Pines)
20. Fort Michilimackinac
21. Campbell Farm Site
22. Cheboygan Opera House
23. Old Cheboygan County Courthouse
24. Inland Waterway
25. Springport Inn
26. Great Black Rock
27. Thunder Bay Shipwrecks
28. Mackinaw Point Lighthouse
29. Old Duncan City (Cheboygan Marsh)
30. Port of Rockport (Abandoned)
31. Briggs Centennial Farm
32. Elowski Centennial Farm
33. Metz Fire
34. Michigan Grayling
35. Noffze Centennial Farm
36. Seike Centennial Farm
37. Smolinski Centennial Farm
38. Oscoda County Courthouse

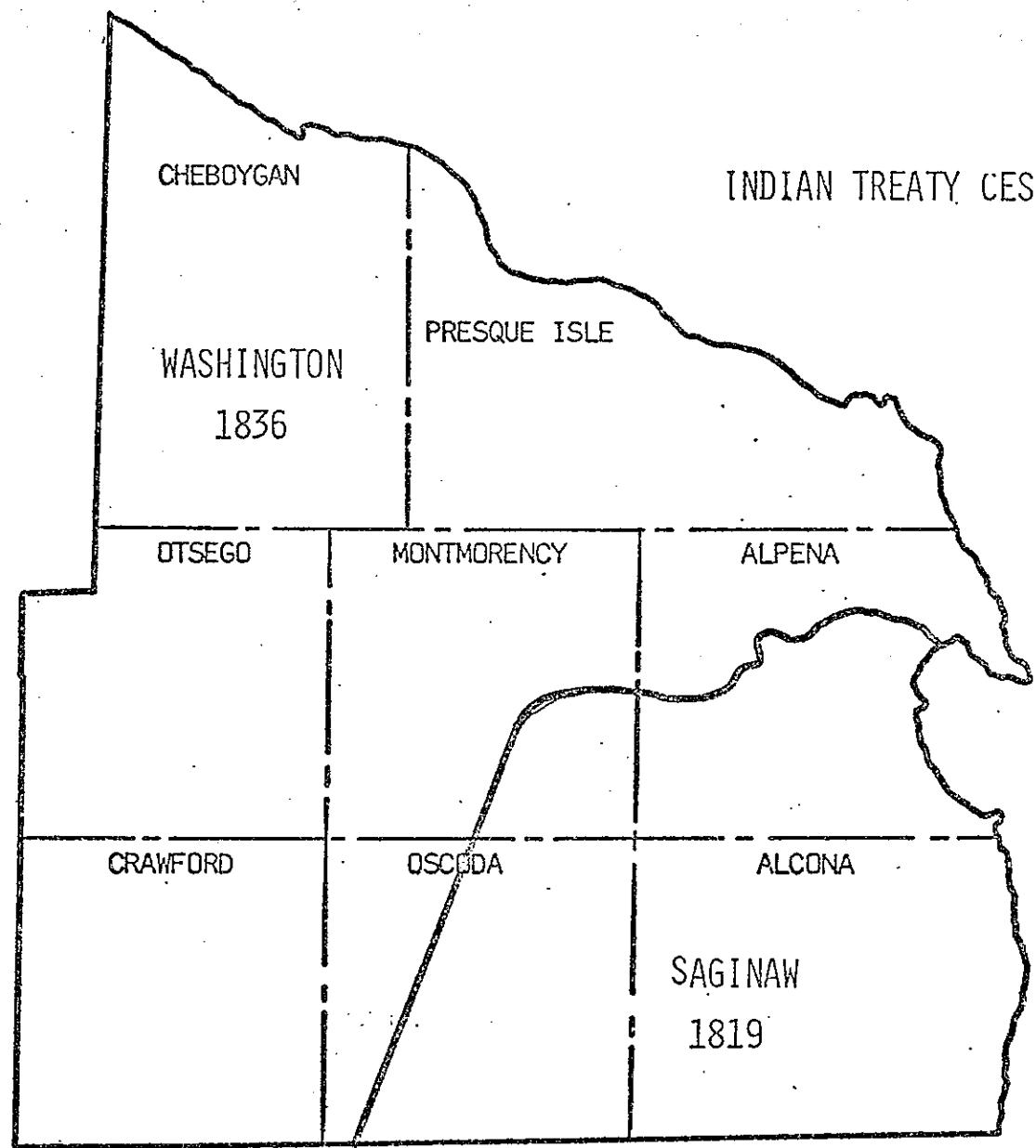
COUNTY NAME ORIGIN  
AND  
DATE OF ORGANIZATION



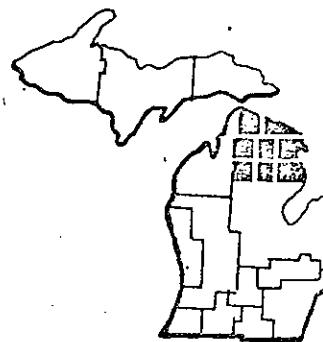
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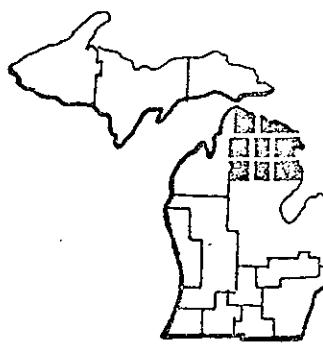
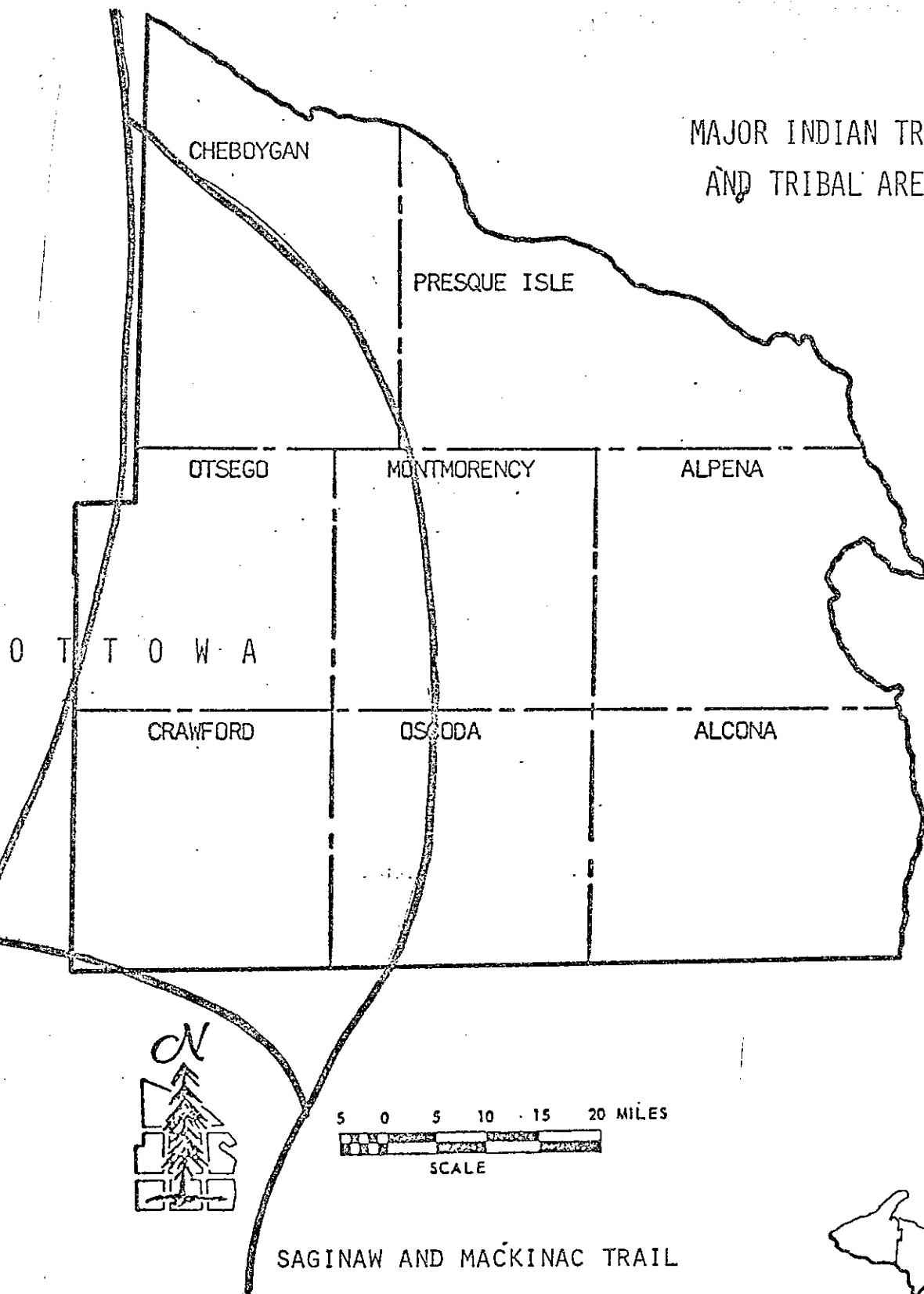


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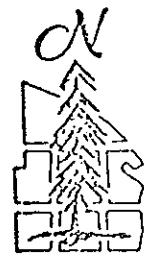
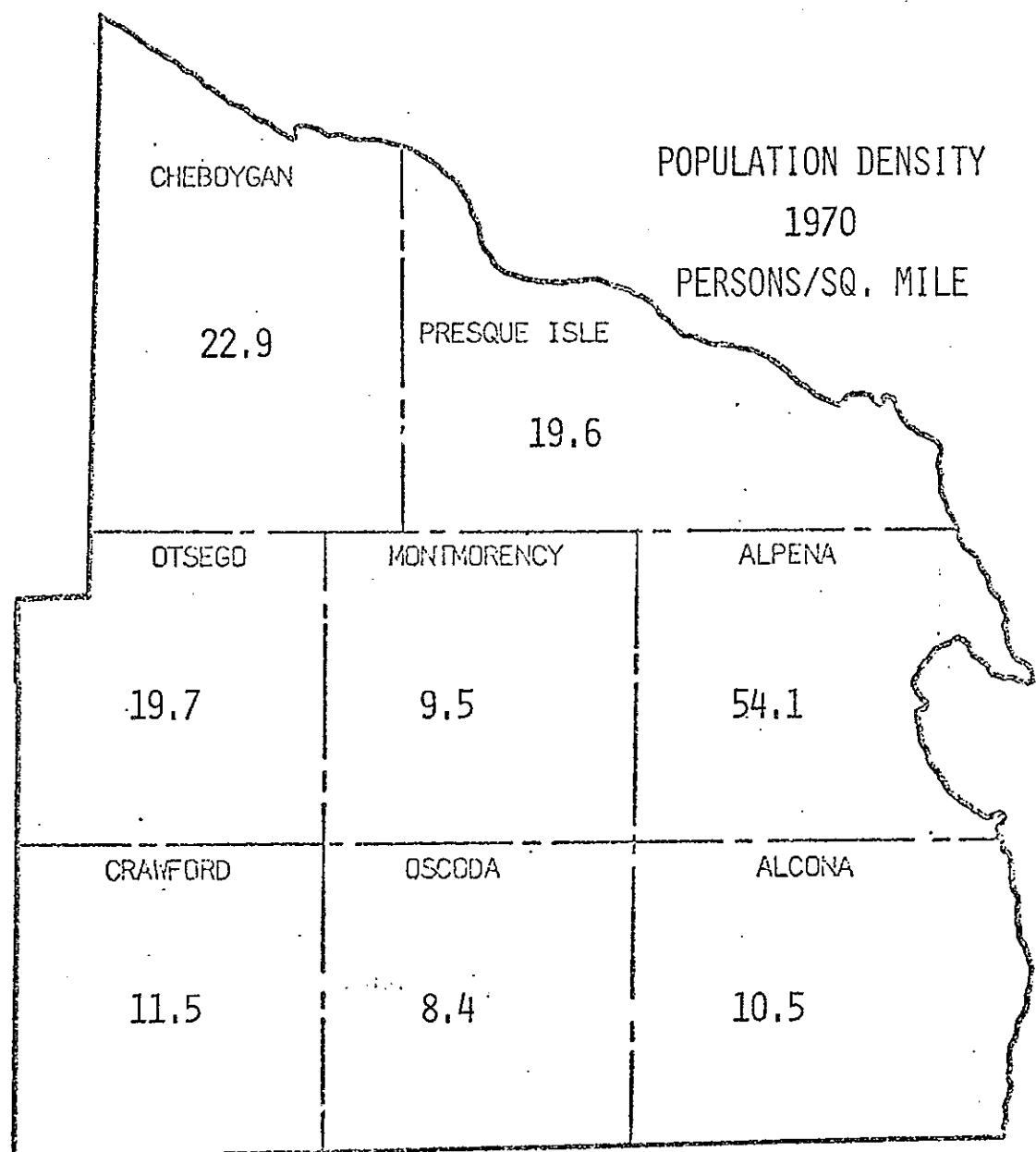


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MAJOR INDIAN TRAILS  
AND TRIBAL AREAS

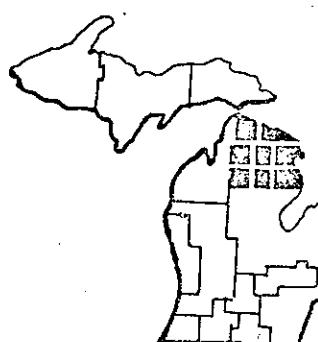


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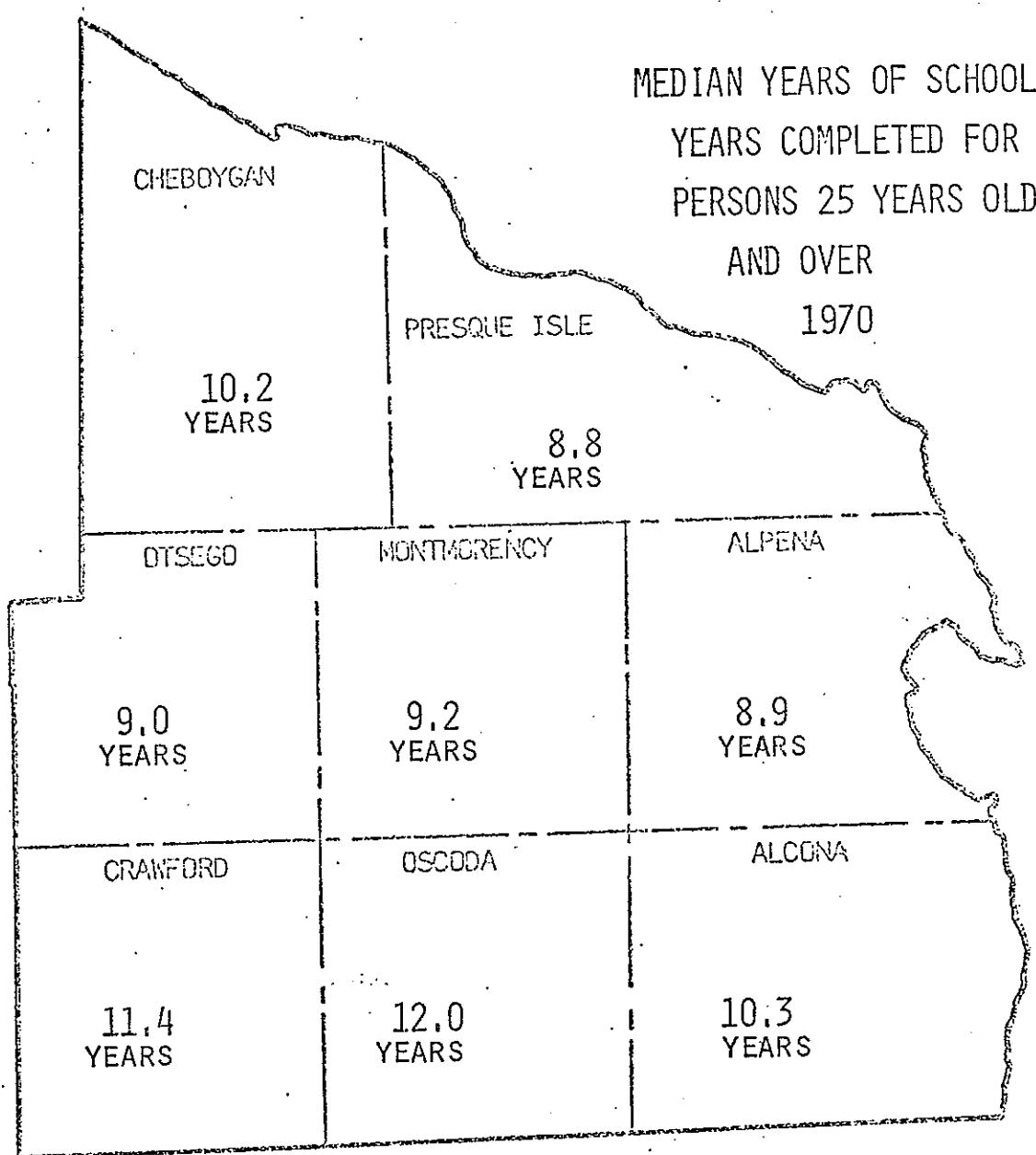
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MICHIGAN 156.2  
NORTHEAST REGION 22.0



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MEDIAN YEARS OF SCHOOL  
YEARS COMPLETED FOR  
PERSONS 25 YEARS OLD  
AND OVER



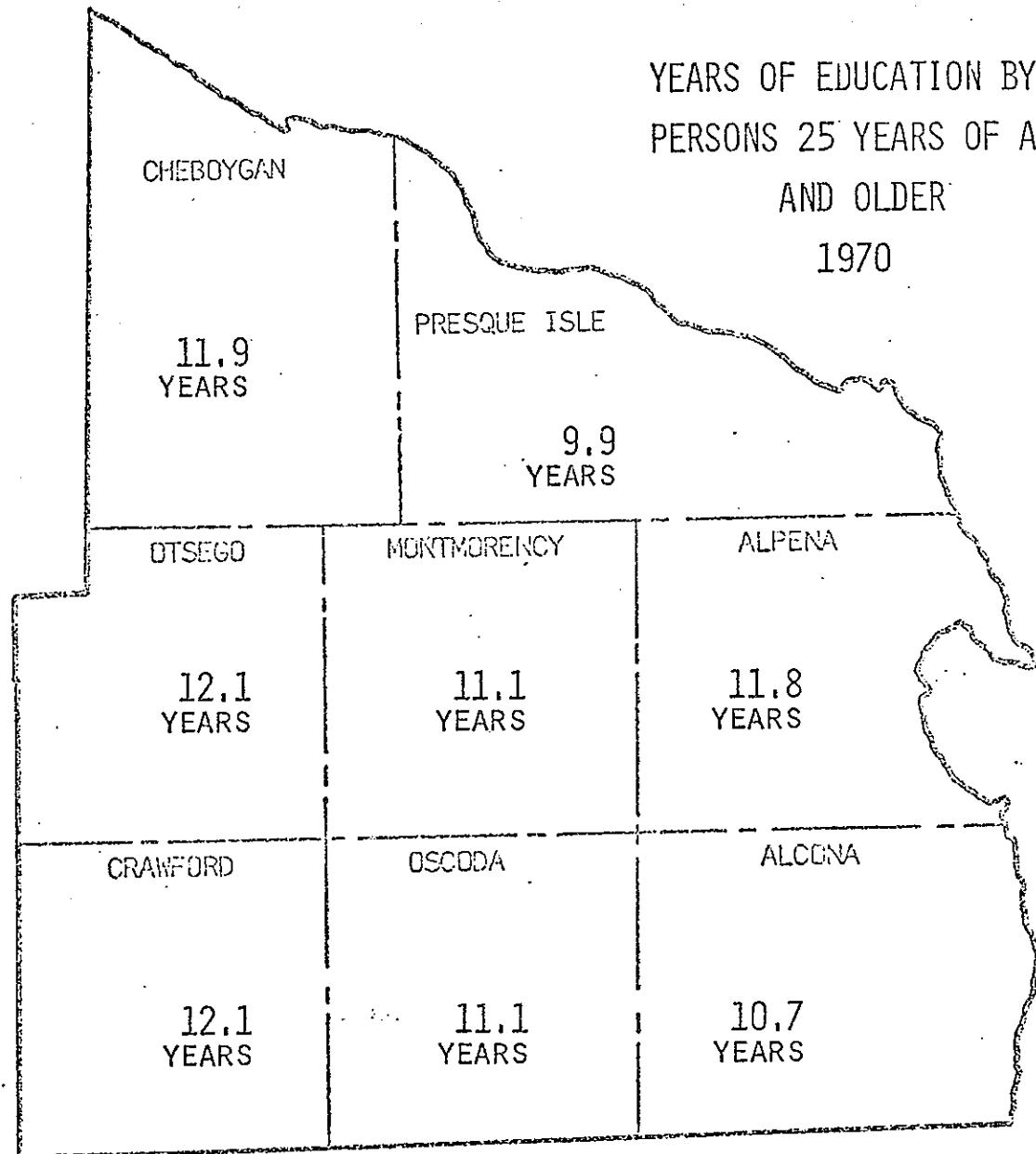
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YEARS OF EDUCATION BY  
PERSONS 25 YEARS OF AGE  
AND OLDER

1970

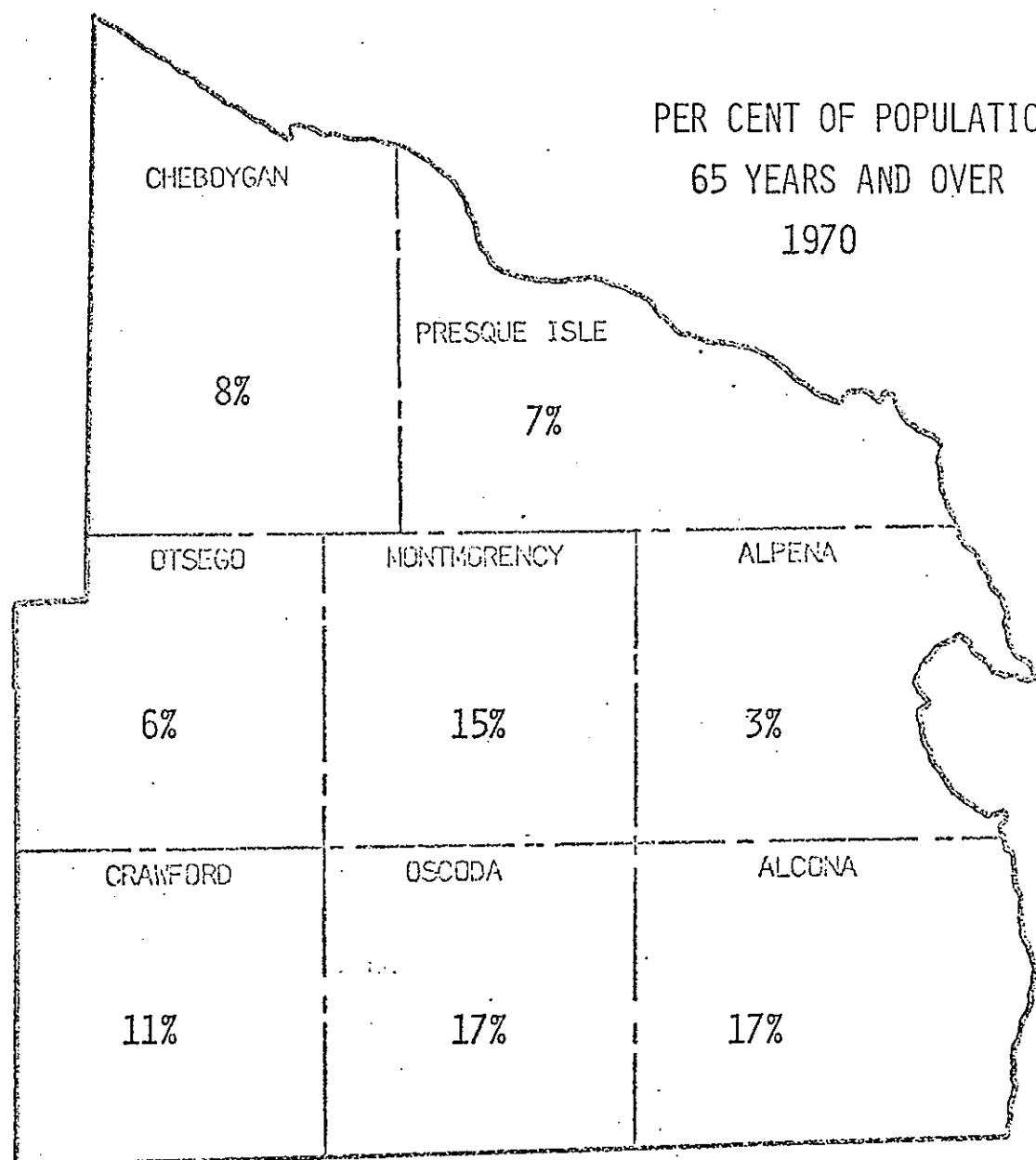


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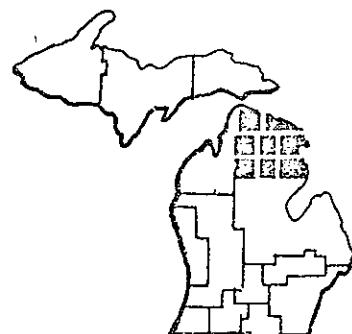


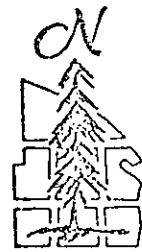
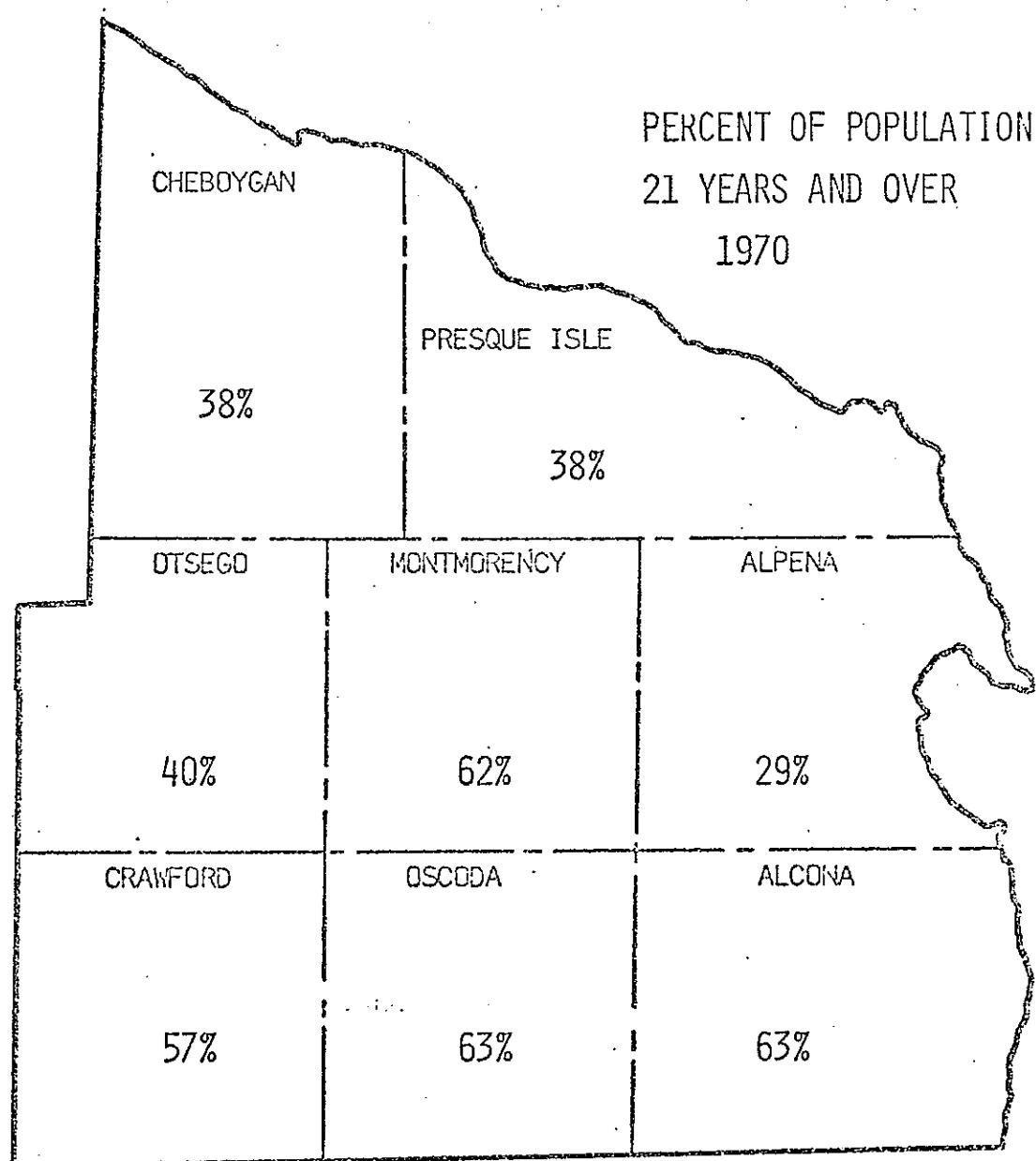
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PER CENT OF POPULATION  
65 YEARS AND OVER  
1970

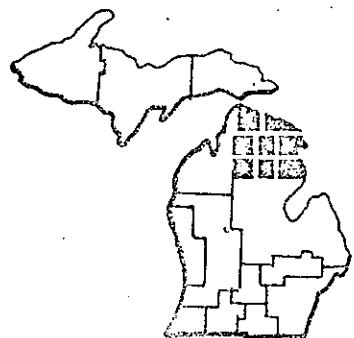


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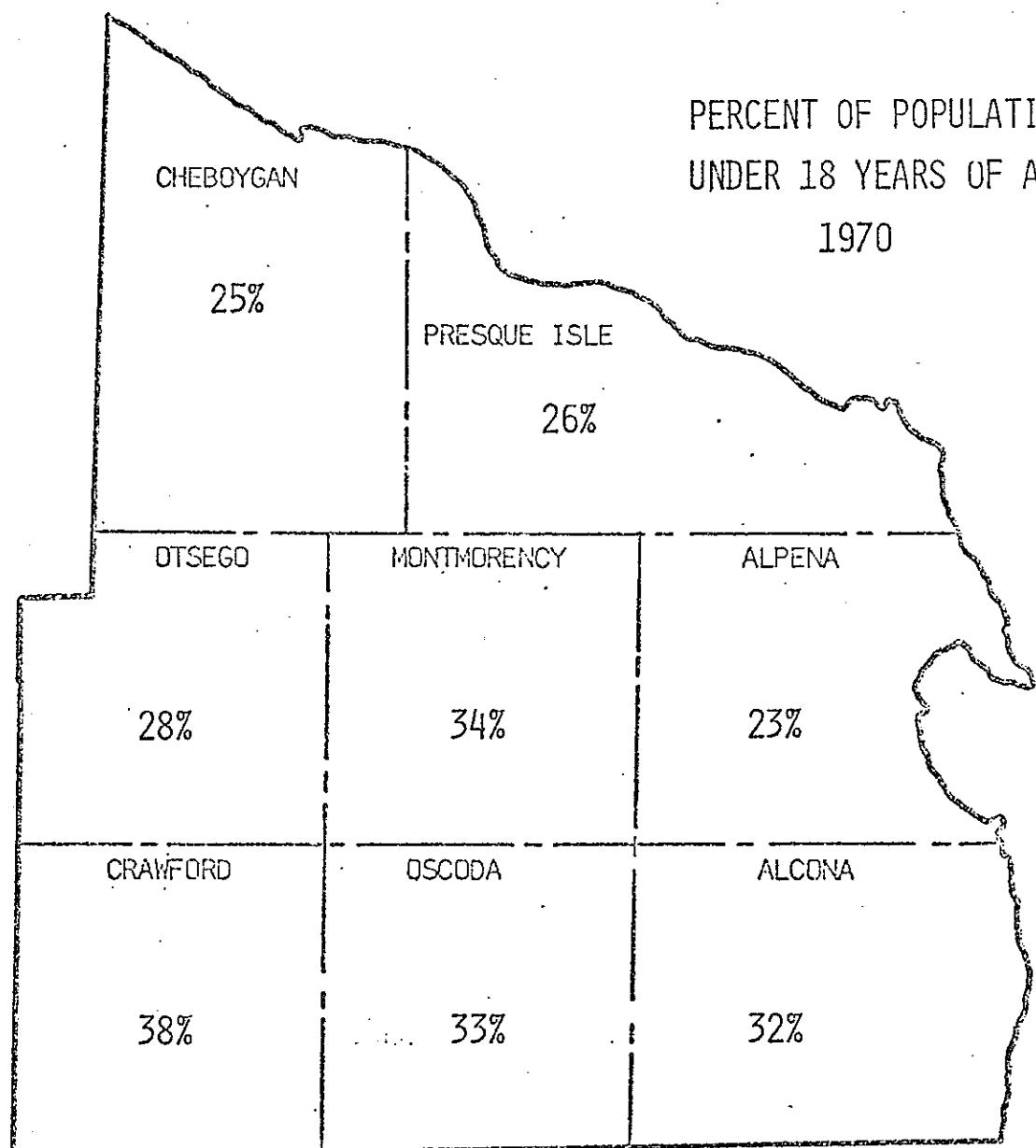


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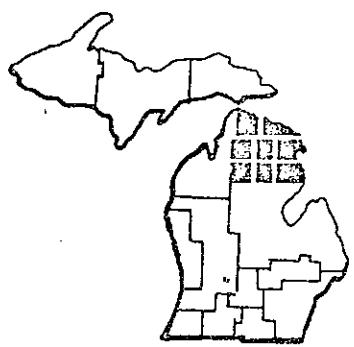


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PERCENT OF POPULATION  
UNDER 18 YEARS OF AGE  
1970

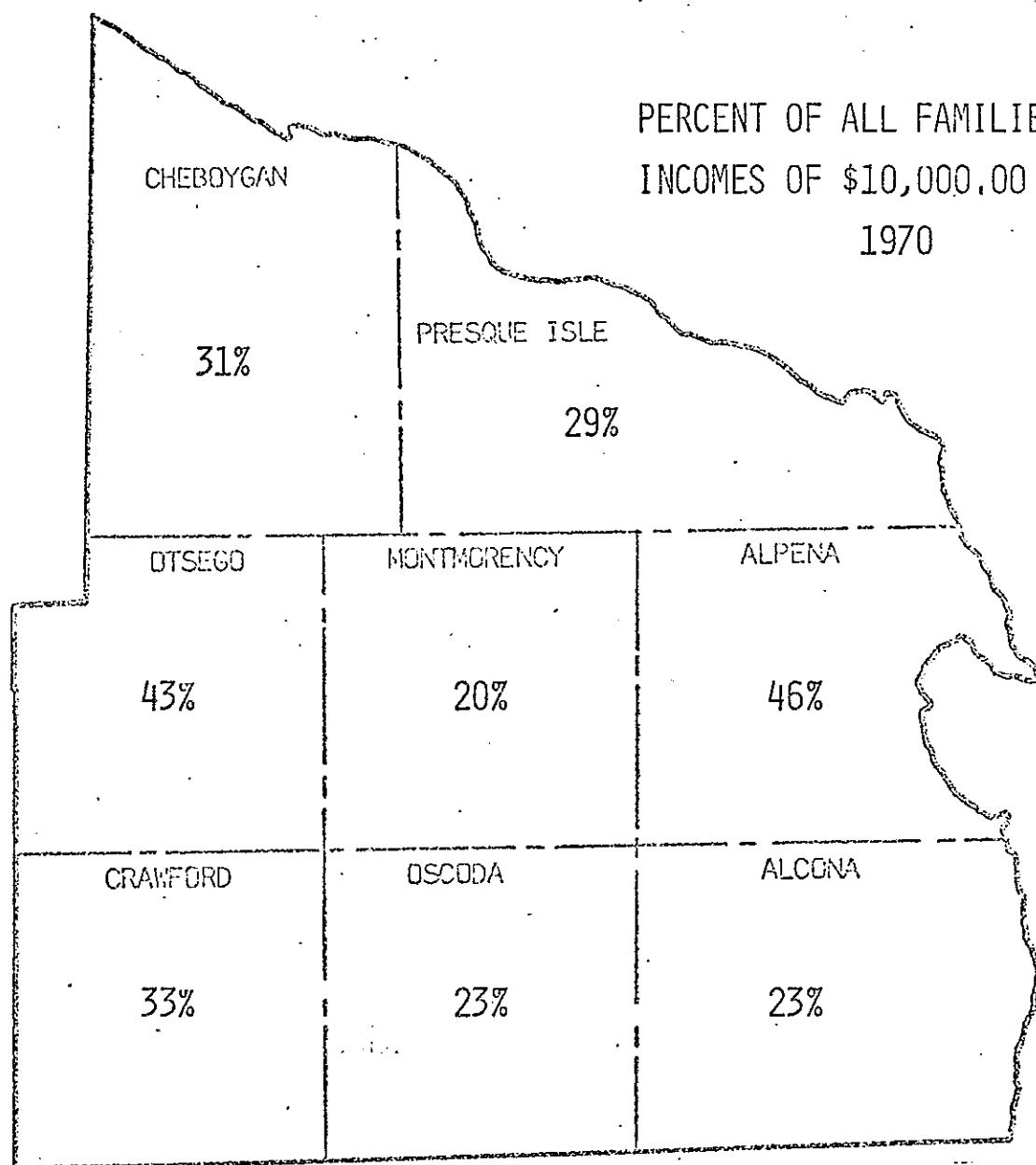


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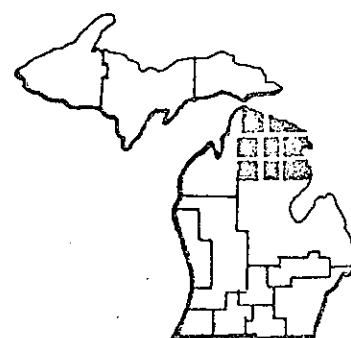


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PERCENT OF ALL FAMILIES WITH  
INCOMES OF \$10,000.00 AND OVER  
1970



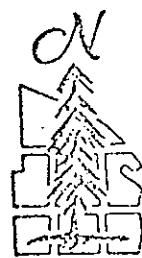
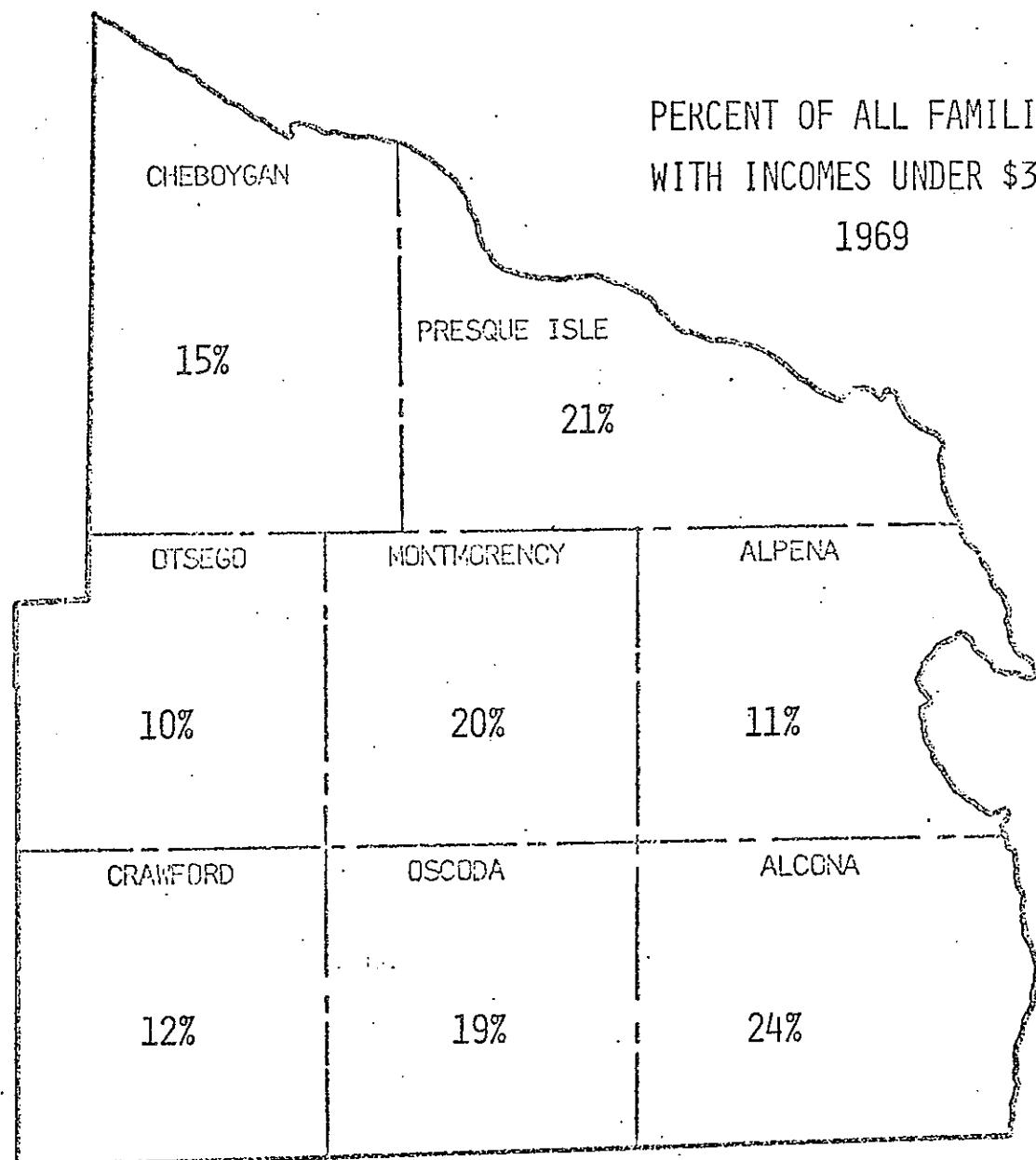
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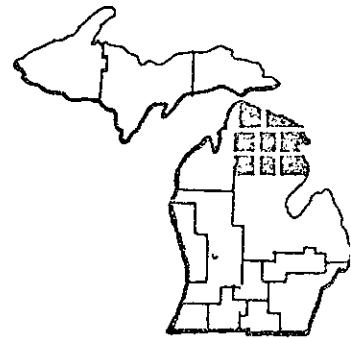
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PERCENT OF ALL FAMILIES  
WITH INCOMES UNDER \$3,000.00

1969



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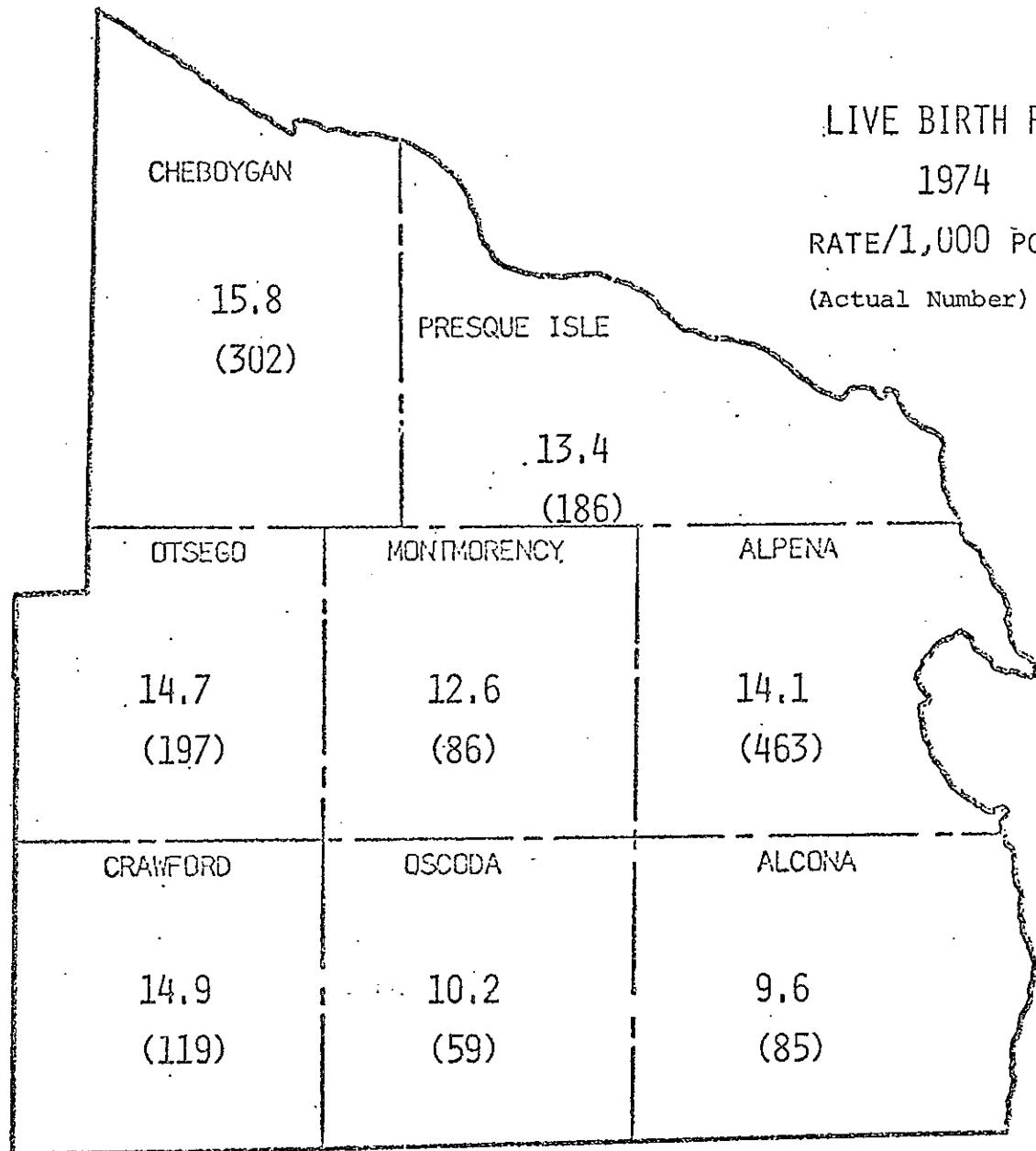
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LIVE BIRTH RATE

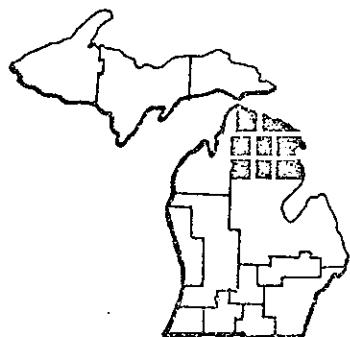
1974

RATE/1,000 POP.

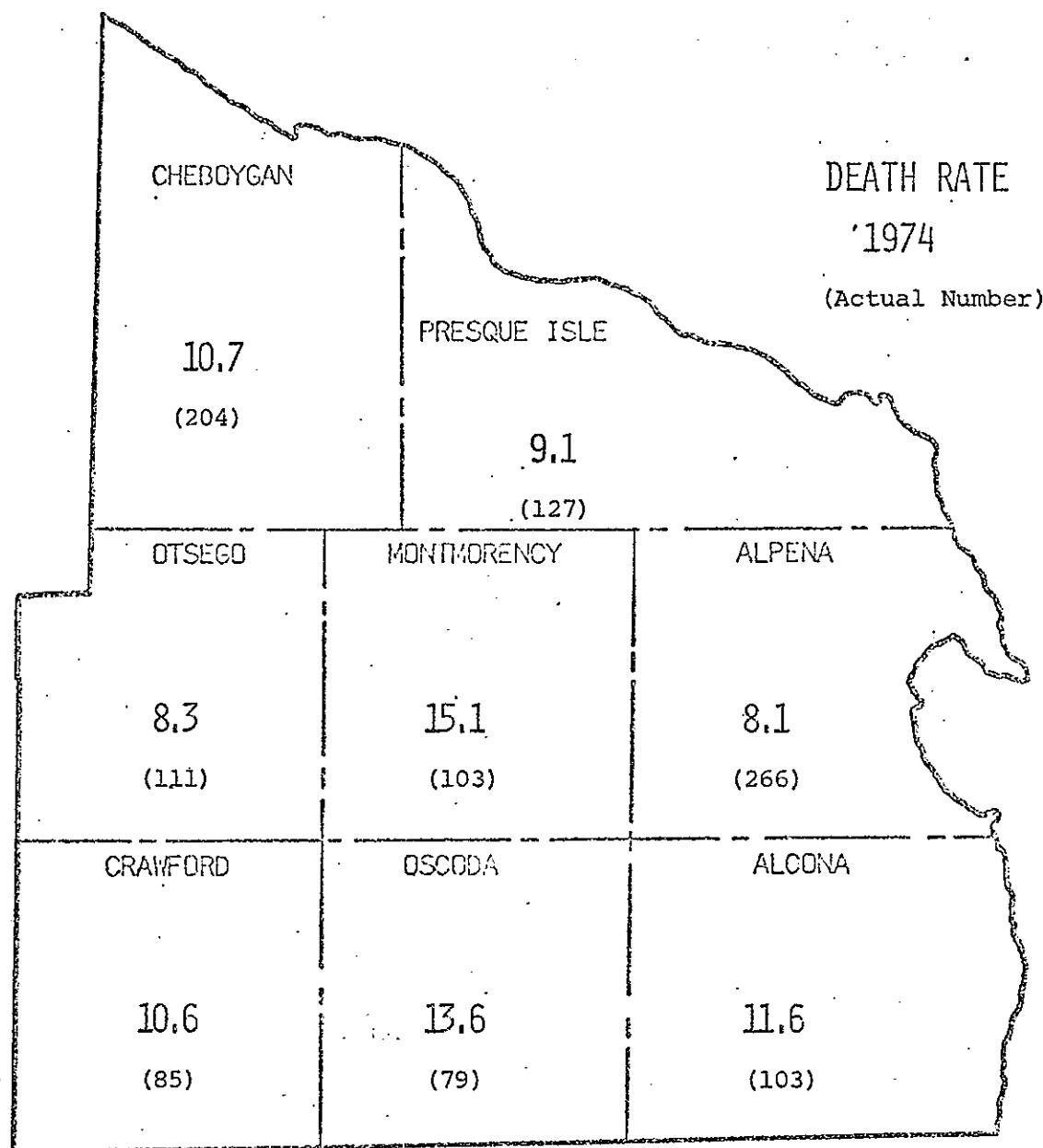
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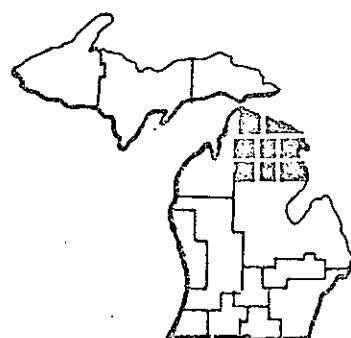
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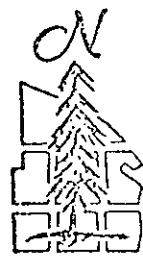
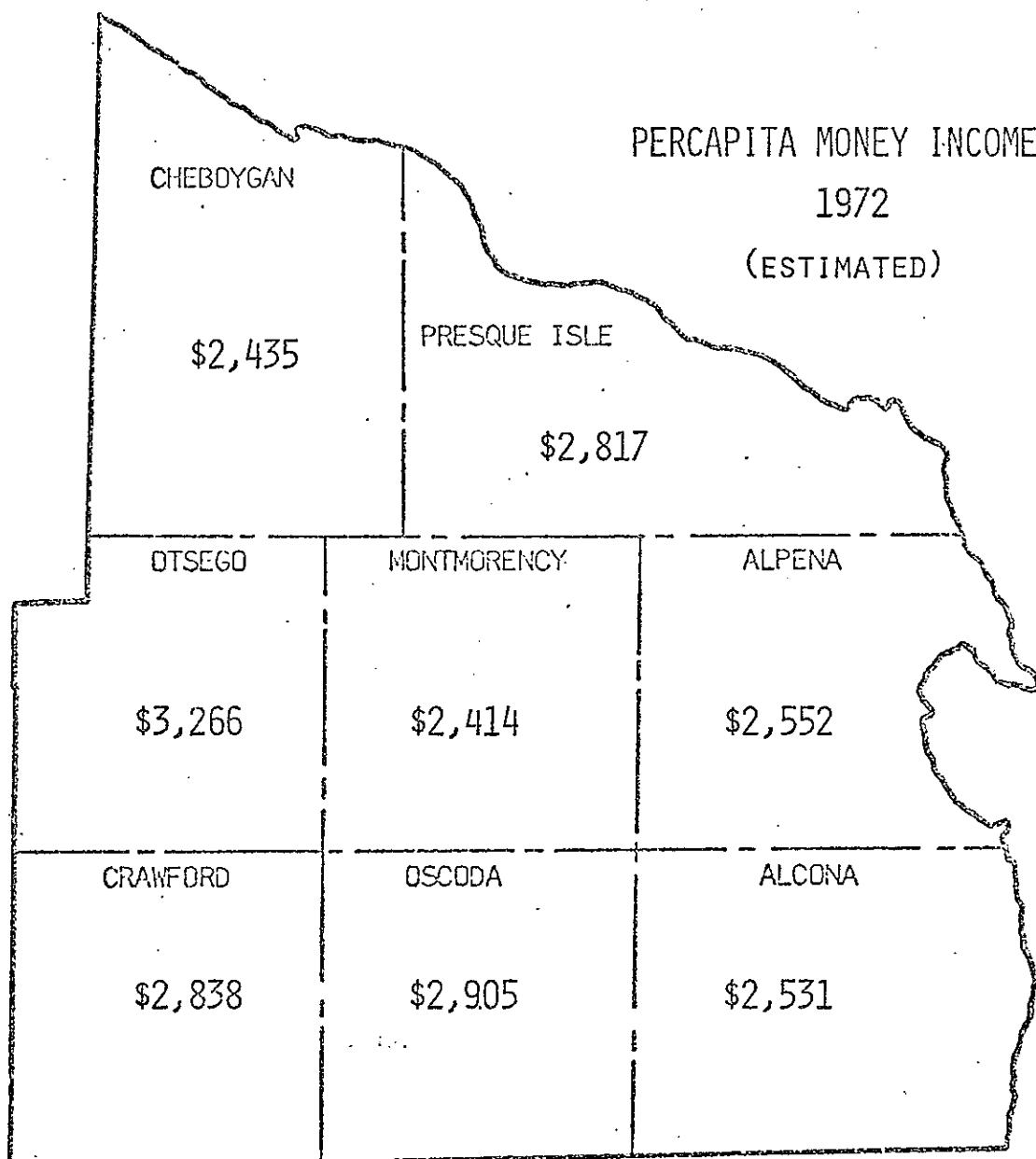


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PERCAPITA MONEY INCOME

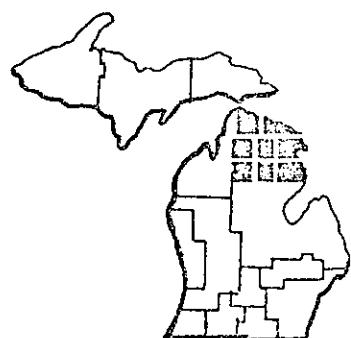
1972

(ESTIMATED)



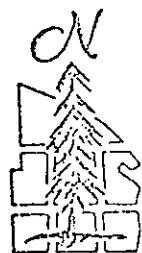
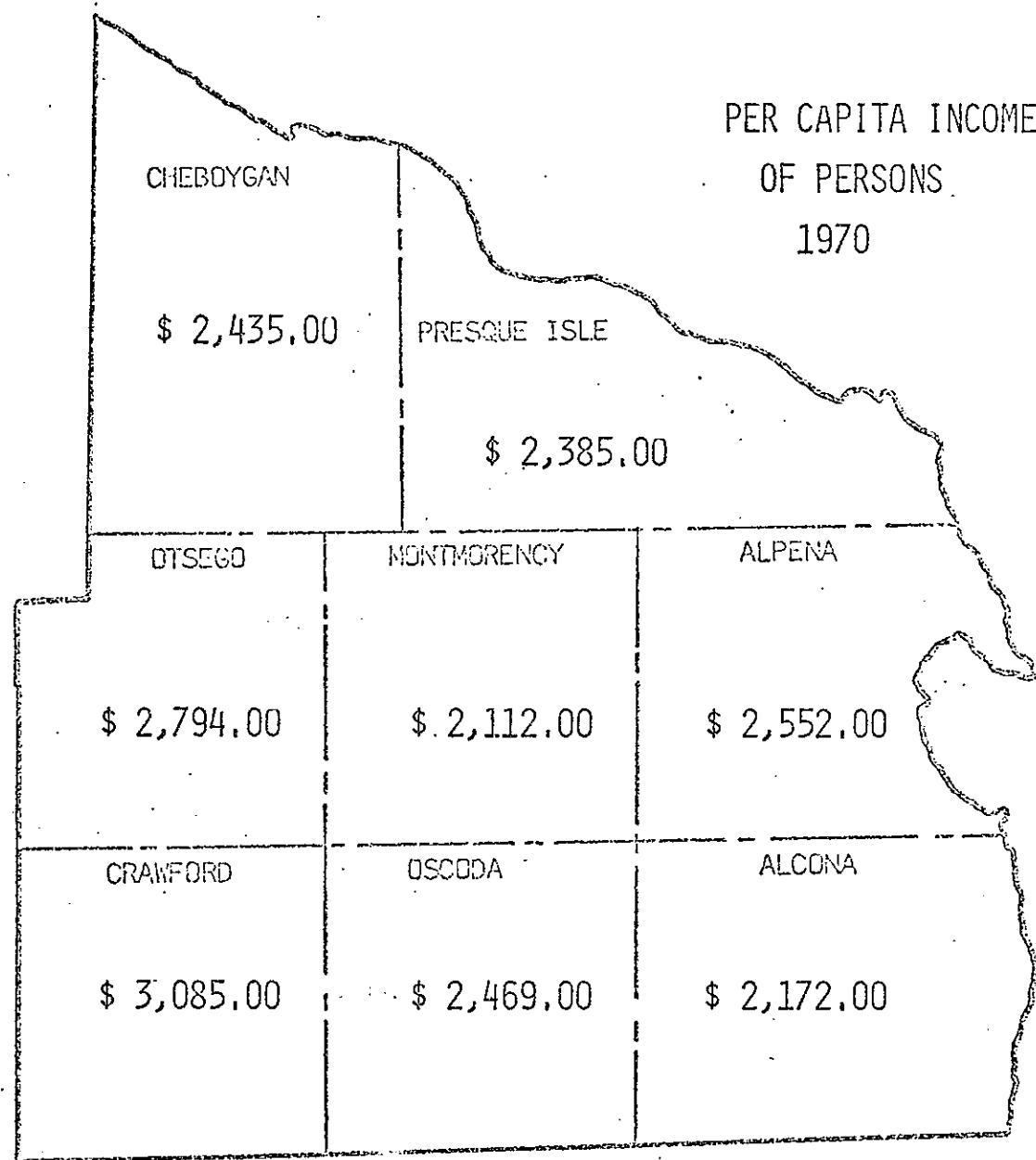
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STATE OF MICHIGAN \$3,984



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PER CAPITA INCOME  
OF PERSONS  
1970

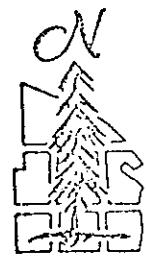
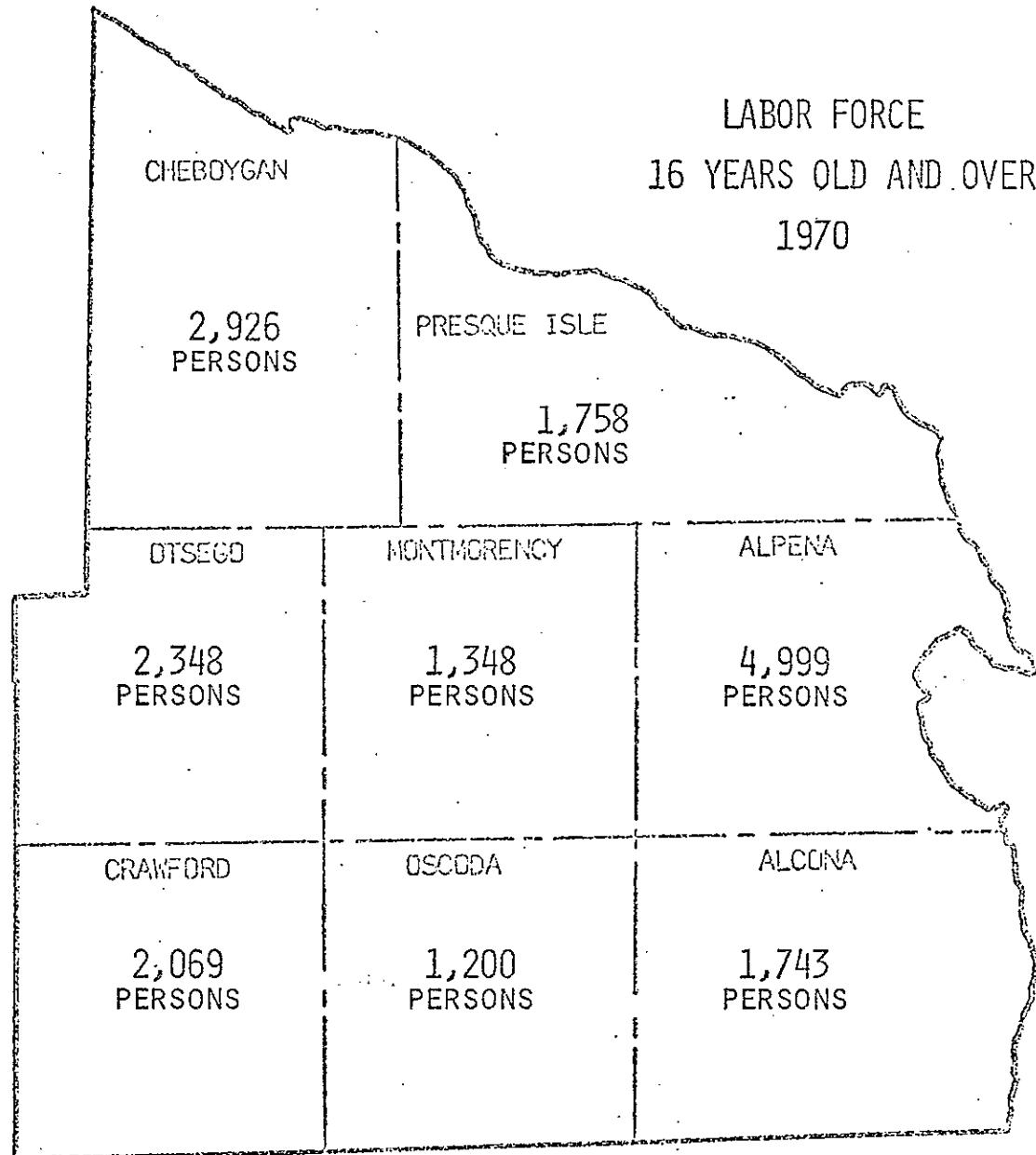


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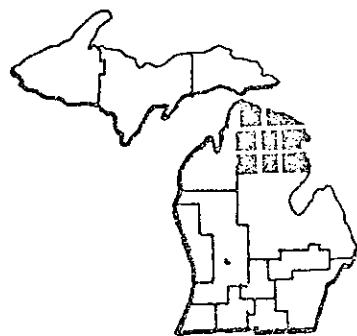


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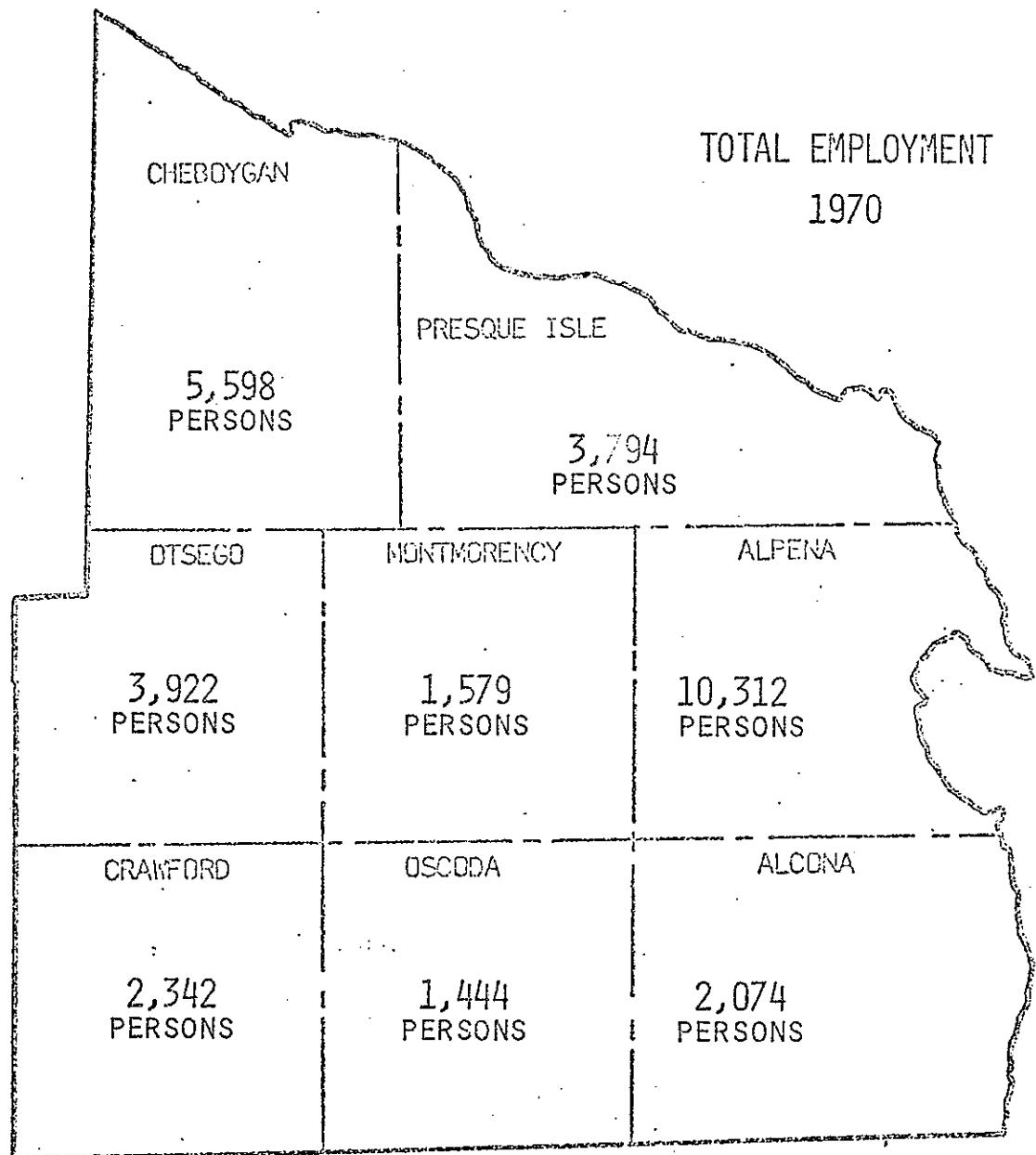
LABOR FORCE  
16 YEARS OLD AND OVER  
1970



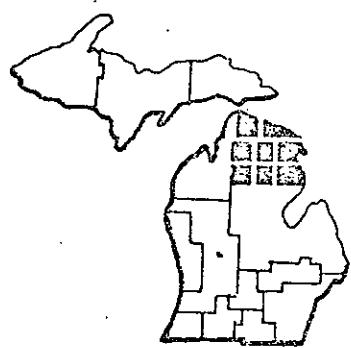
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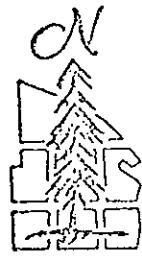
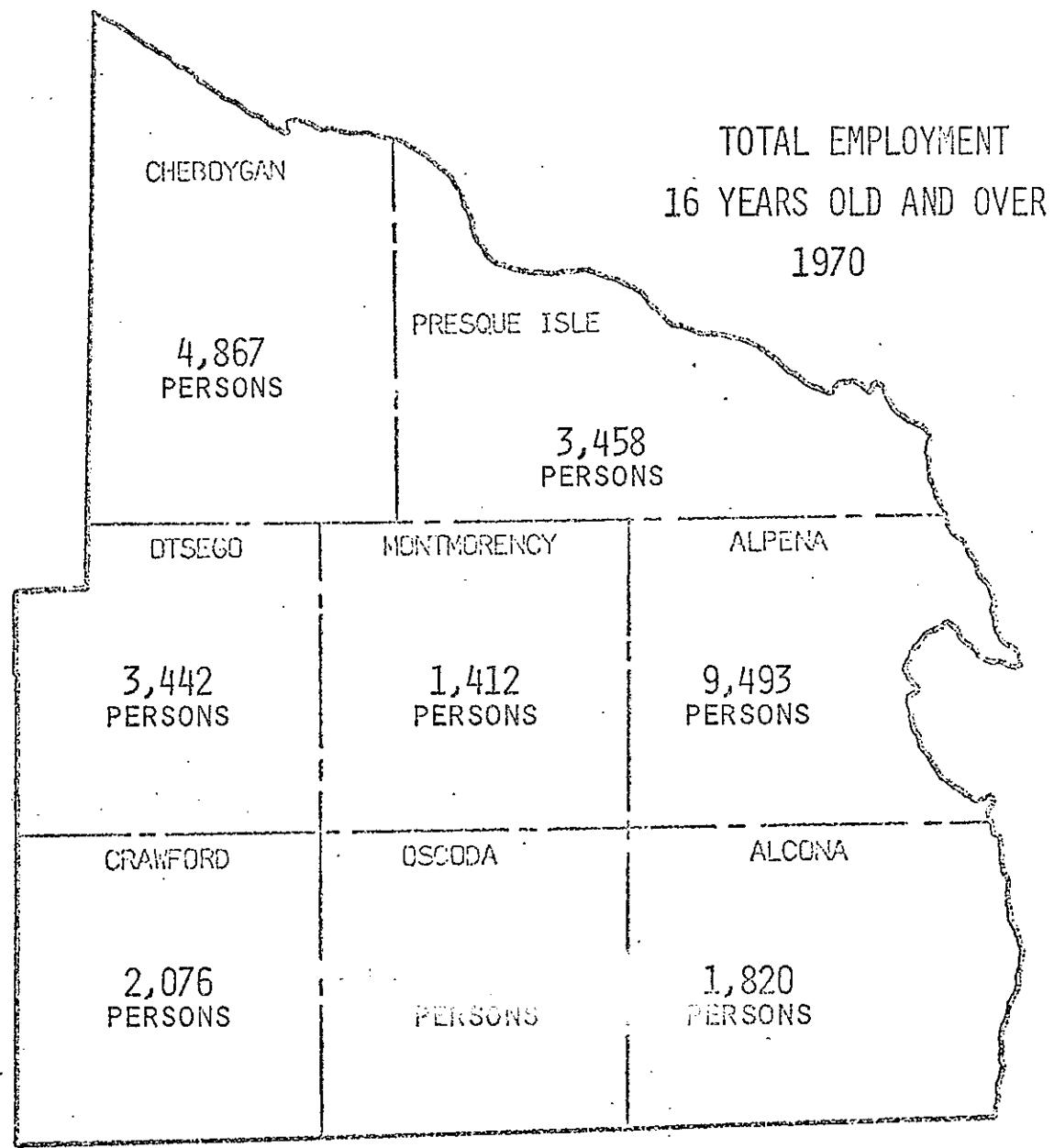
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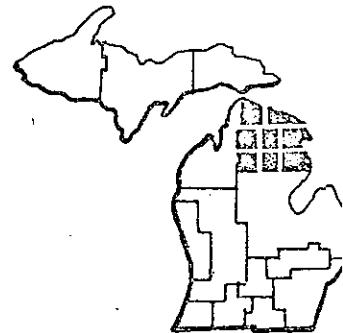
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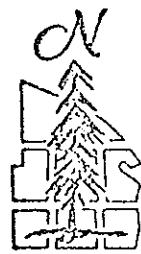
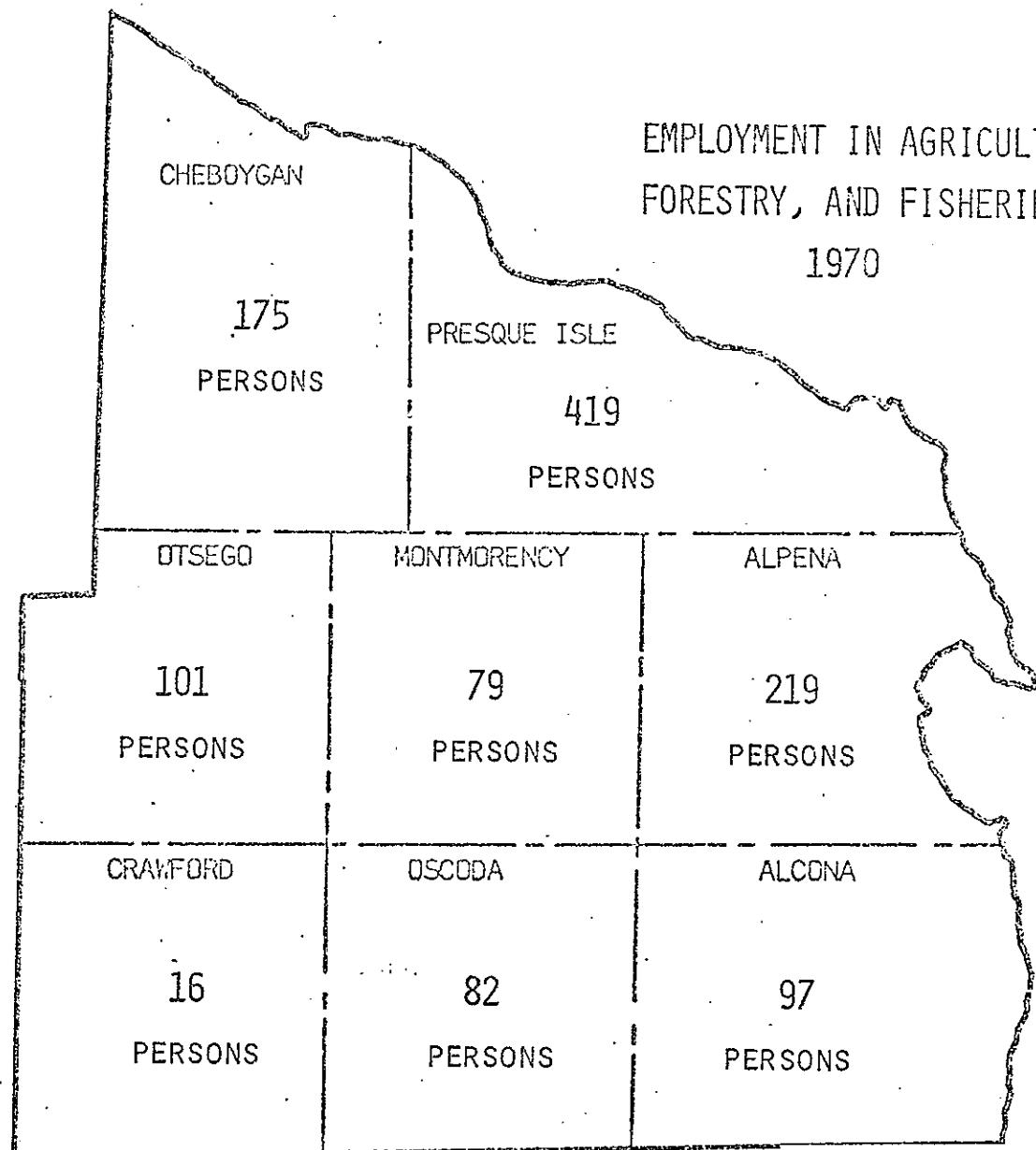
5 0 5 10 15 20 MILES  
SCALE



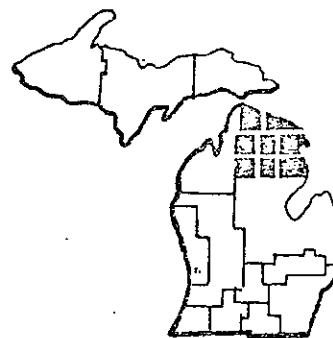
**NEMCOG**

EMPLOYMENT IN AGRICULTURE,  
FORESTRY, AND FISHERIES

1970

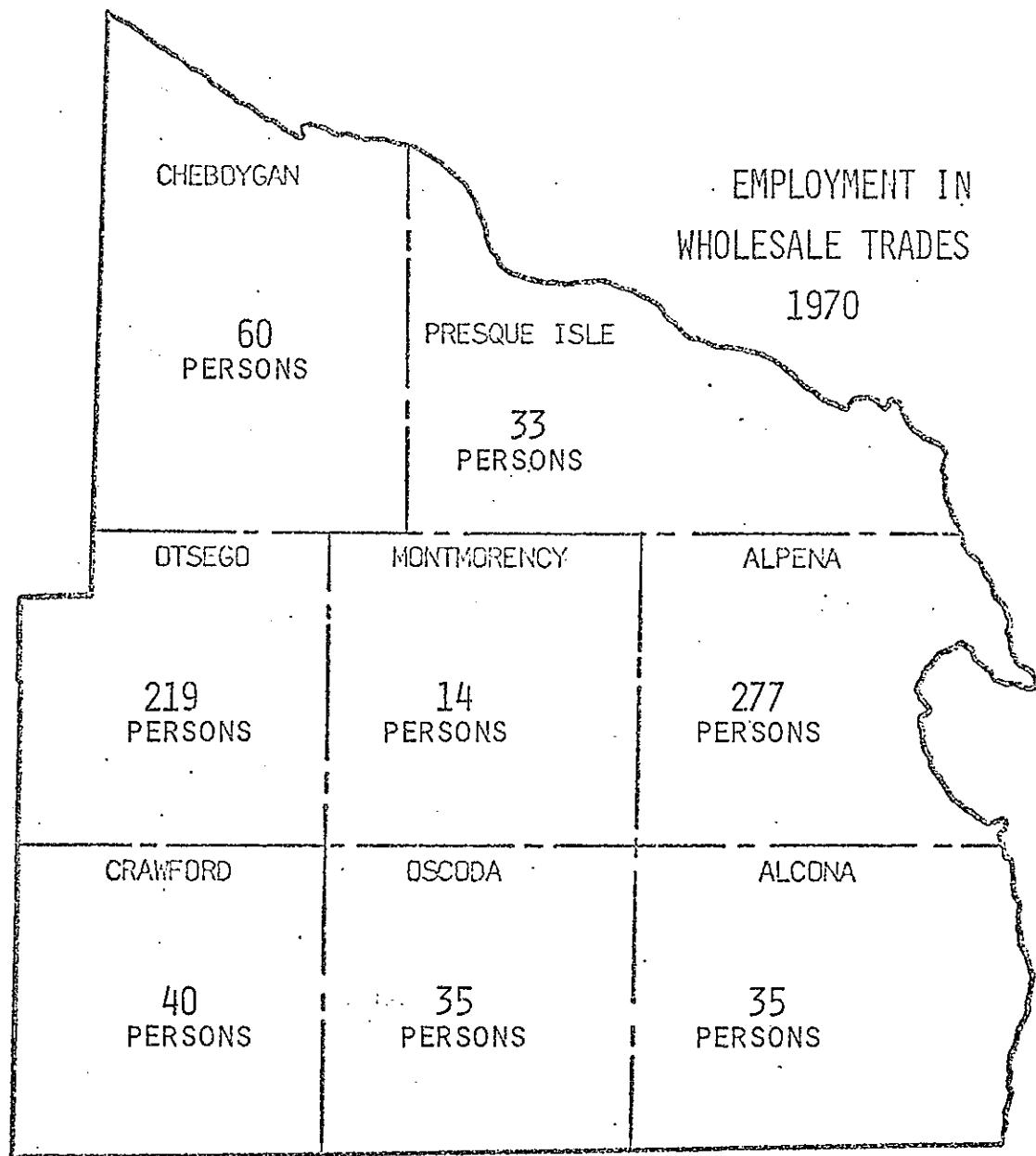


5 0 5 10 15 20 MILES  
SCALE

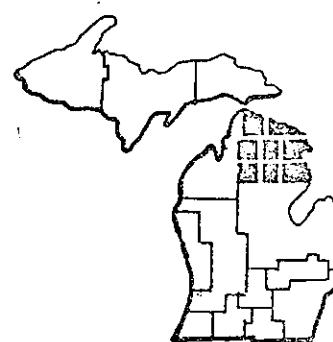


NEMCOG

EMPLOYMENT IN  
WHOLESALE TRADES  
1970



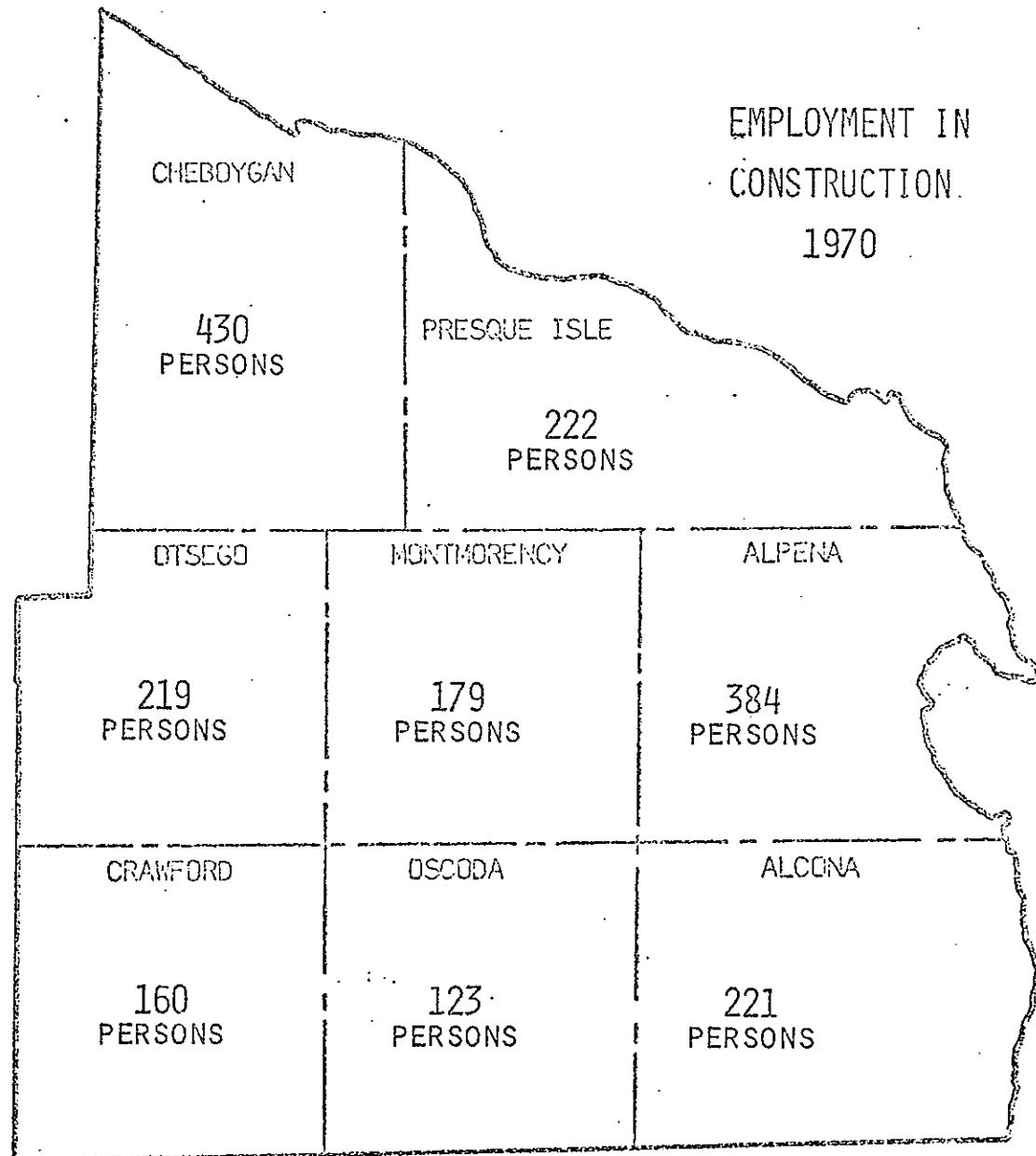
5 0 5 10 15 20 MILES  
SCALE



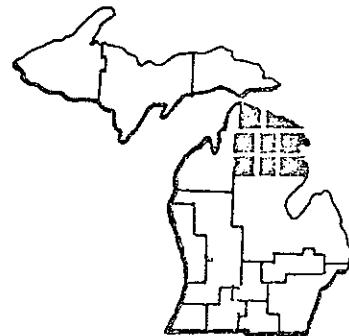
NEMCOG

EMPLOYMENT IN  
CONSTRUCTION.

1970

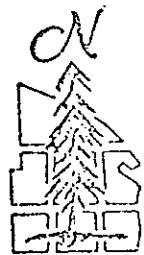
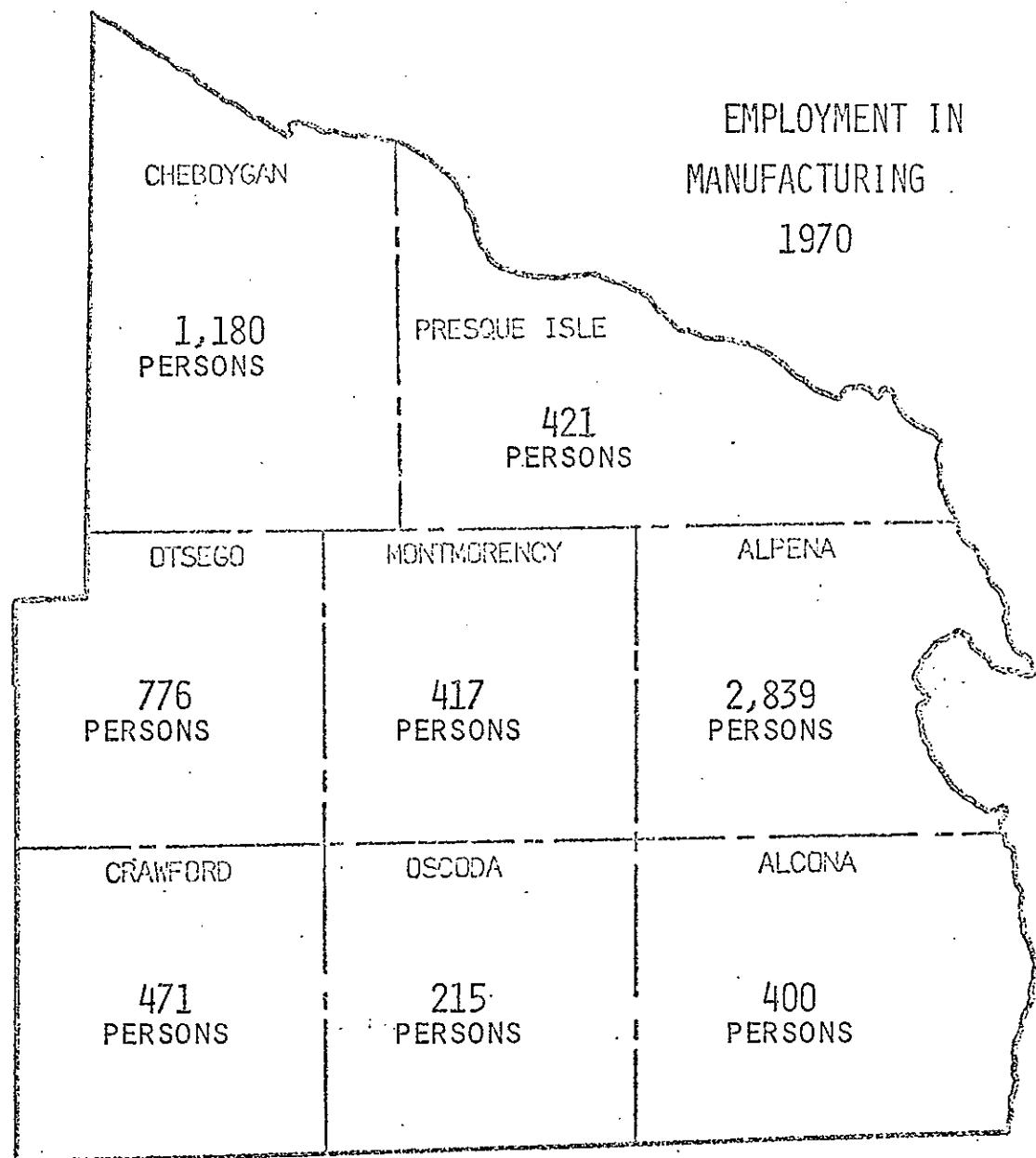


5 0 5 10 15 20 MILES  
SCALE

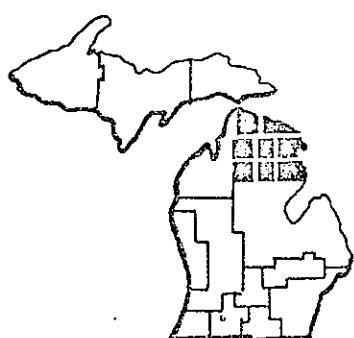


NEMCOG

EMPLOYMENT IN  
MANUFACTURING  
1970



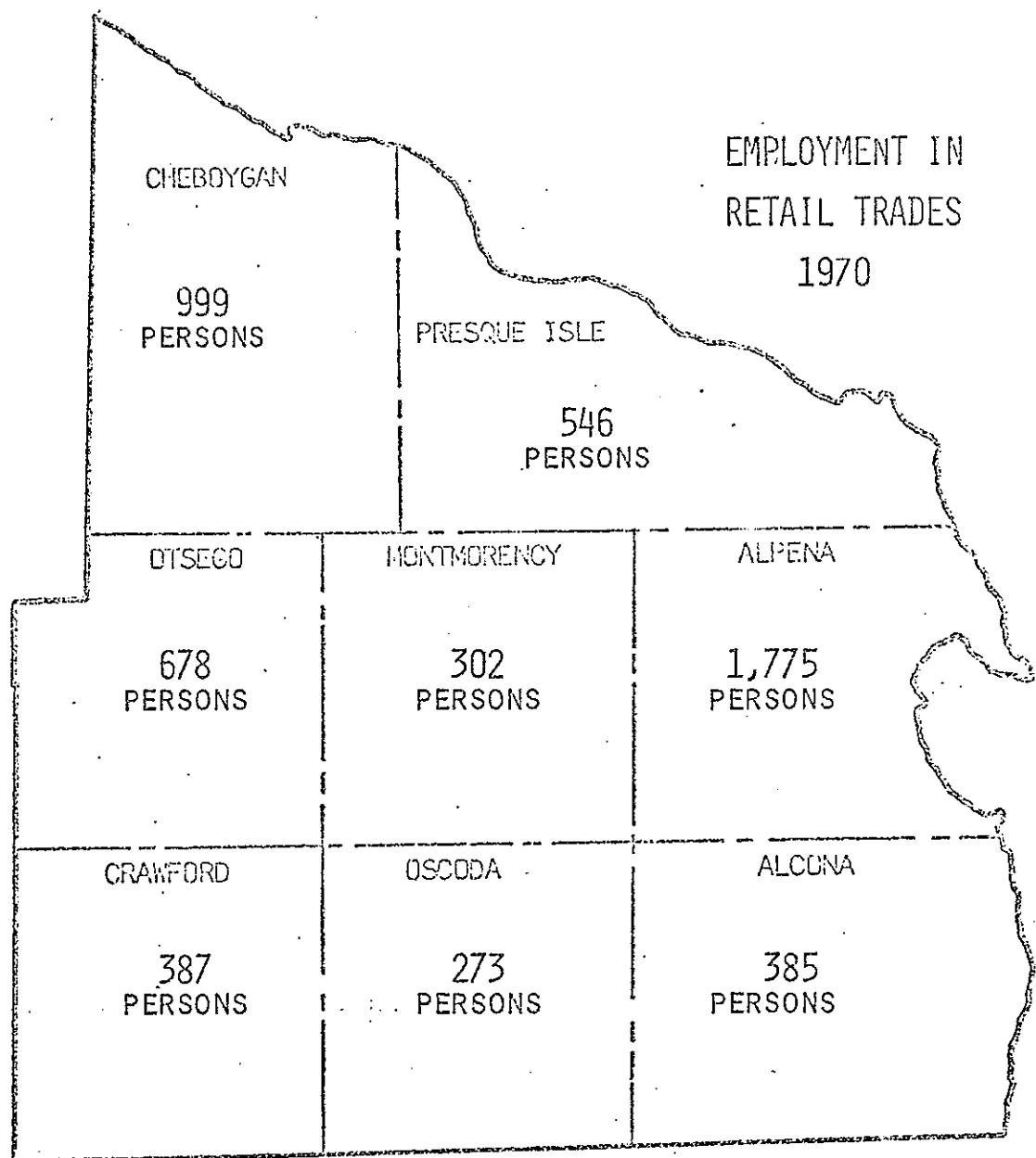
5 0 5 10 15 20 MILES  
SCALE



NEMCOG

EMPLOYMENT IN  
RETAIL TRADES

1970

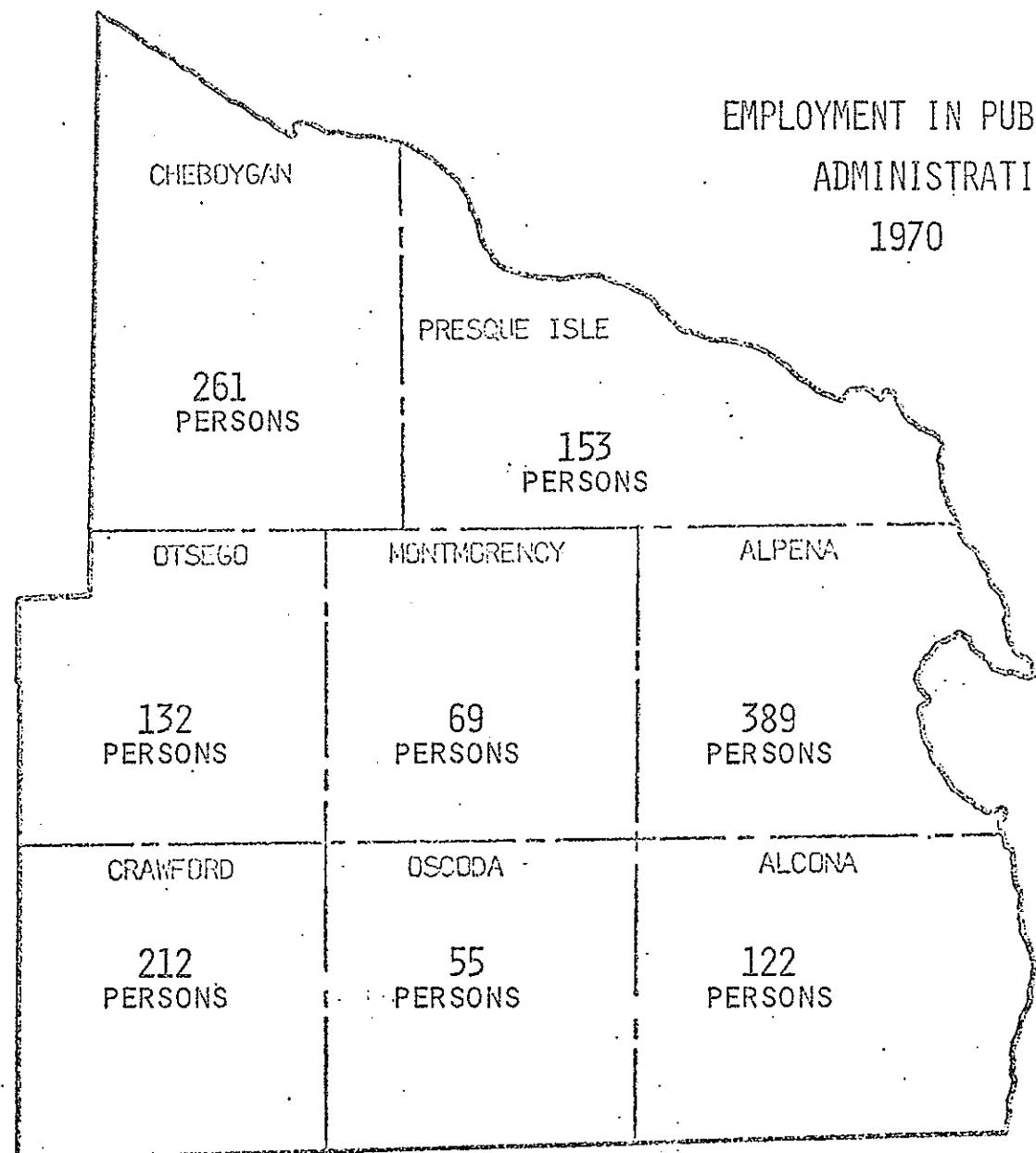


5 0 5 10 15 20 MILES  
SCALE

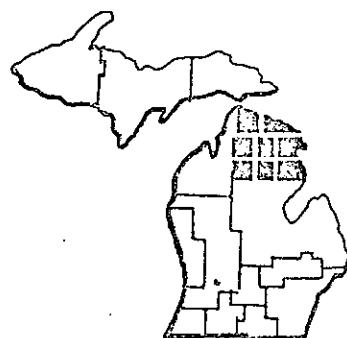


NEMCOG

EMPLOYMENT IN PUBLIC  
ADMINISTRATION  
1970



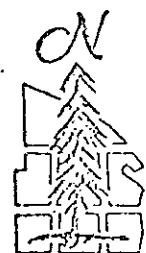
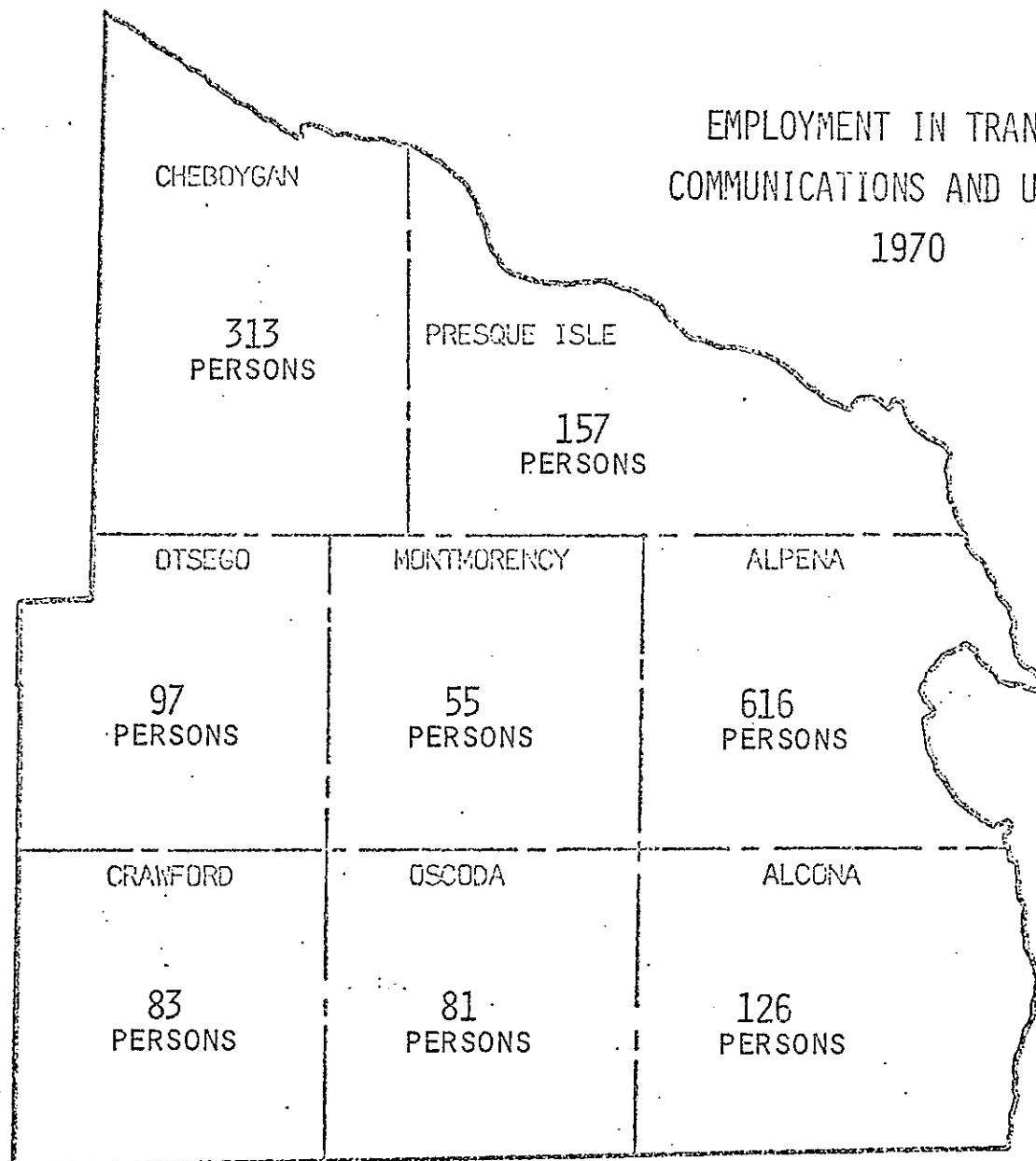
5 0 5 10 15 20 MILES  
SCALE



NEMCOG

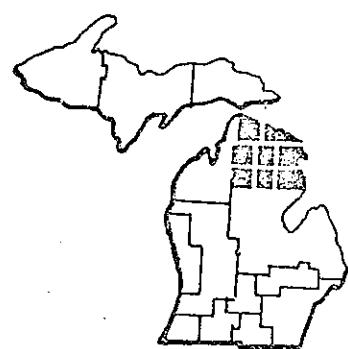
EMPLOYMENT IN TRANSPORTATION  
COMMUNICATIONS AND UTILITIES

1970



0 5 10 15 20 MILES.  
SCALE

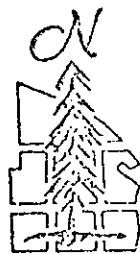
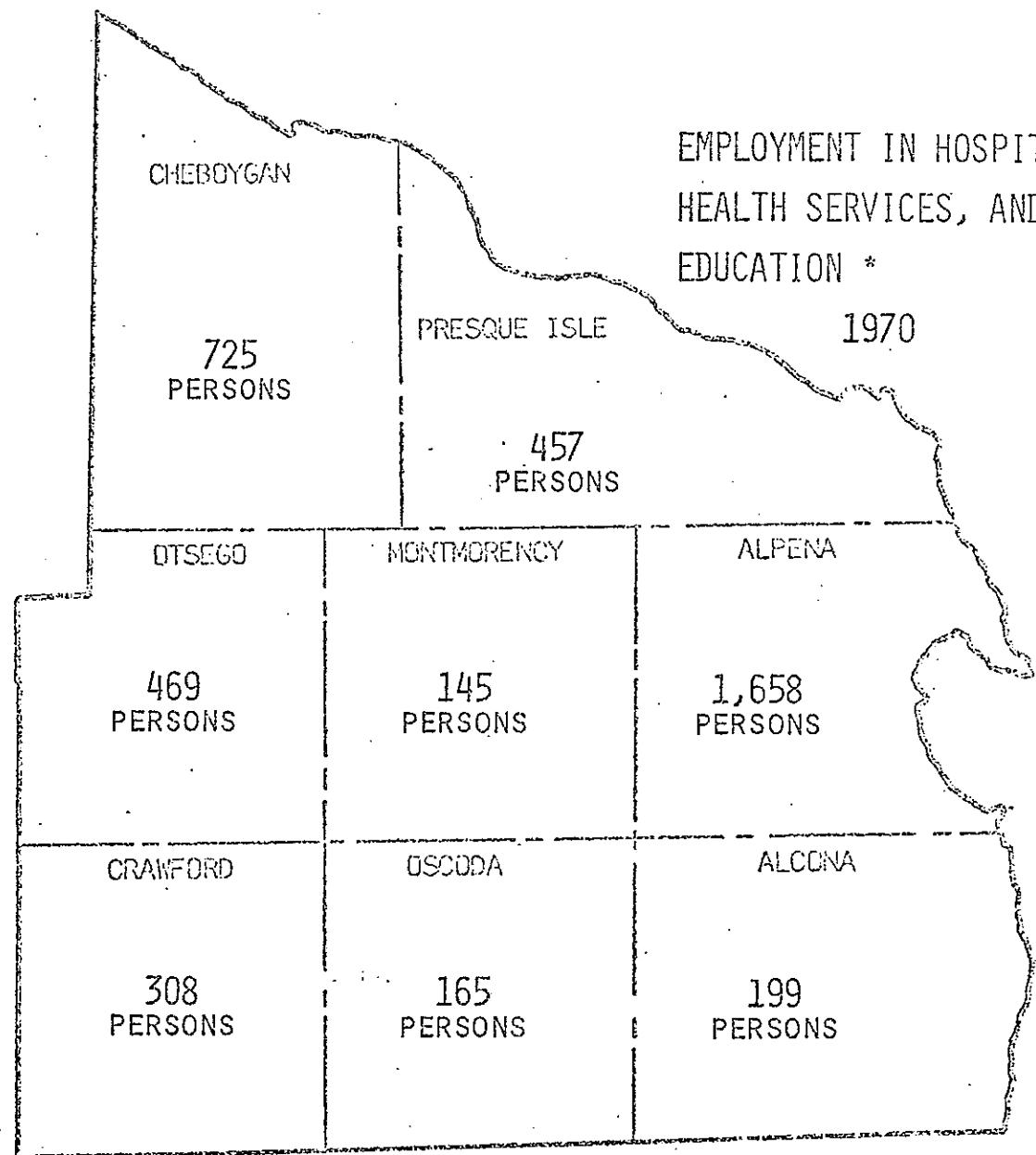
- \* Railroad and Railway Express Service
- Trucking Service & Warehousing
- Other Transportation
- Communications
- Utilities & Sanitary Services



NEMCOG

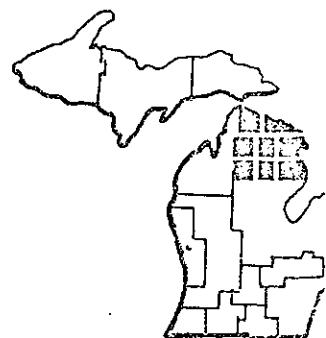
EMPLOYMENT IN HOSPITALS,  
HEALTH SERVICES, AND  
EDUCATION \*

1970



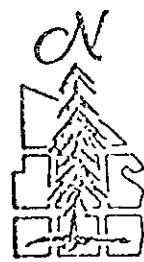
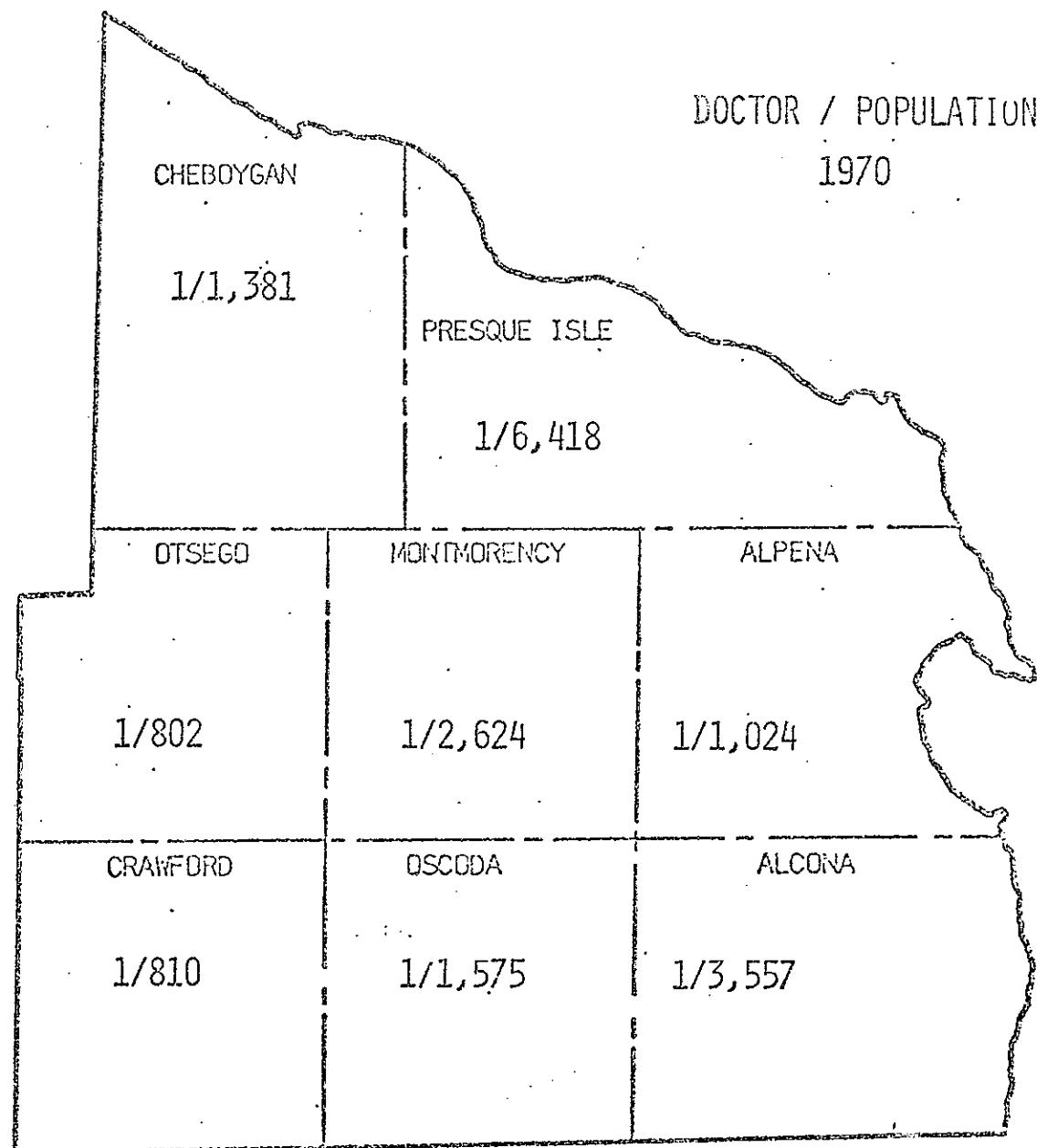
5 0 5 10 15 20 MILES  
SCALE

- \* Hospitals
- Health Services except Hospitals
- Elementary, Sec. Schools, Colleges - Gov't.
- Elementary, Sec. Schools, Colleges - Private
- Other Education & Kindred Services



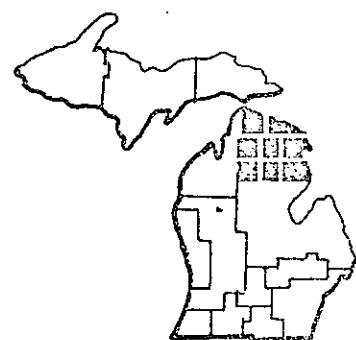
NEMCOG

DOCTOR / POPULATION RATIO  
1970



5 0 5 10 .. 15 20 MILES  
SCALE

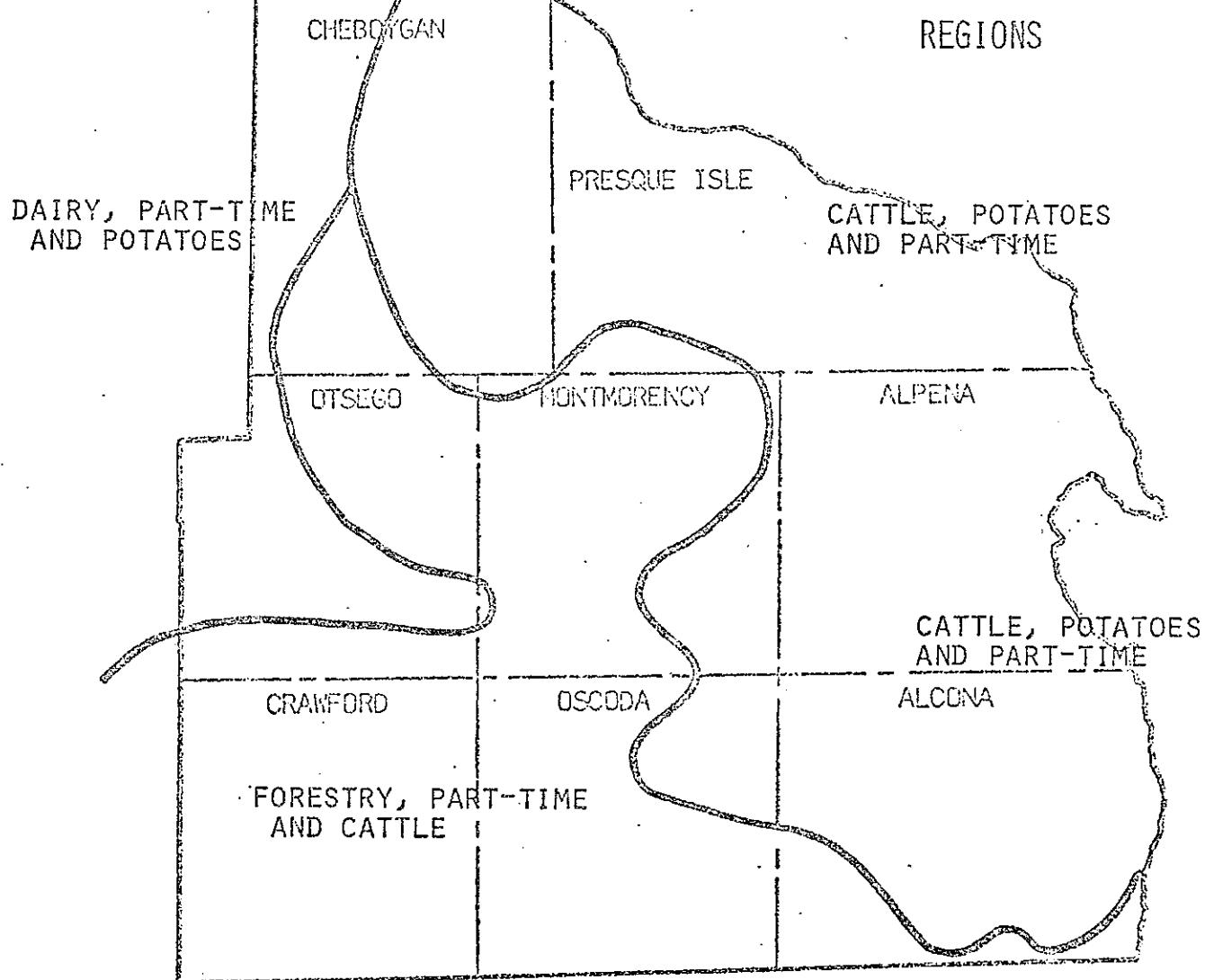
STATE - 1/824



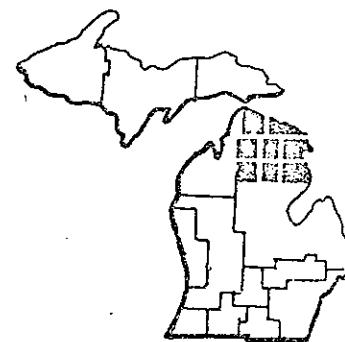
NEMCOG

## ACTIVITIES

## AGRICULTURAL REGIONS

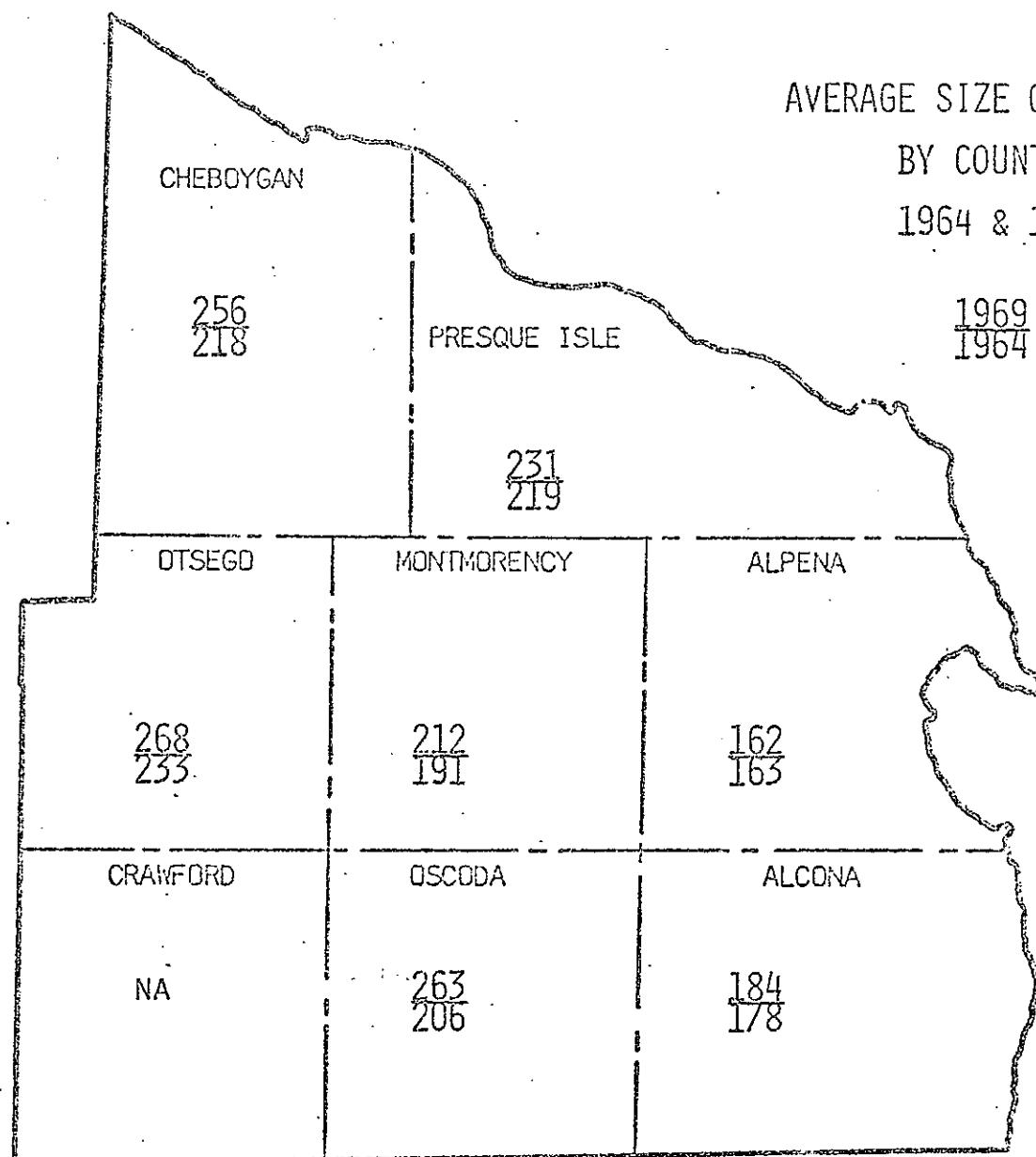


0 5 10 15 20 MILES  
SCALE

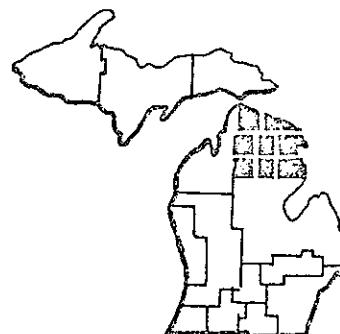


NEMCOG

AVERAGE SIZE OF ALL FAIR  
BY COUNTIES  
1964 & 1969



5 0 5 10 15 20 MILES  
SCALE

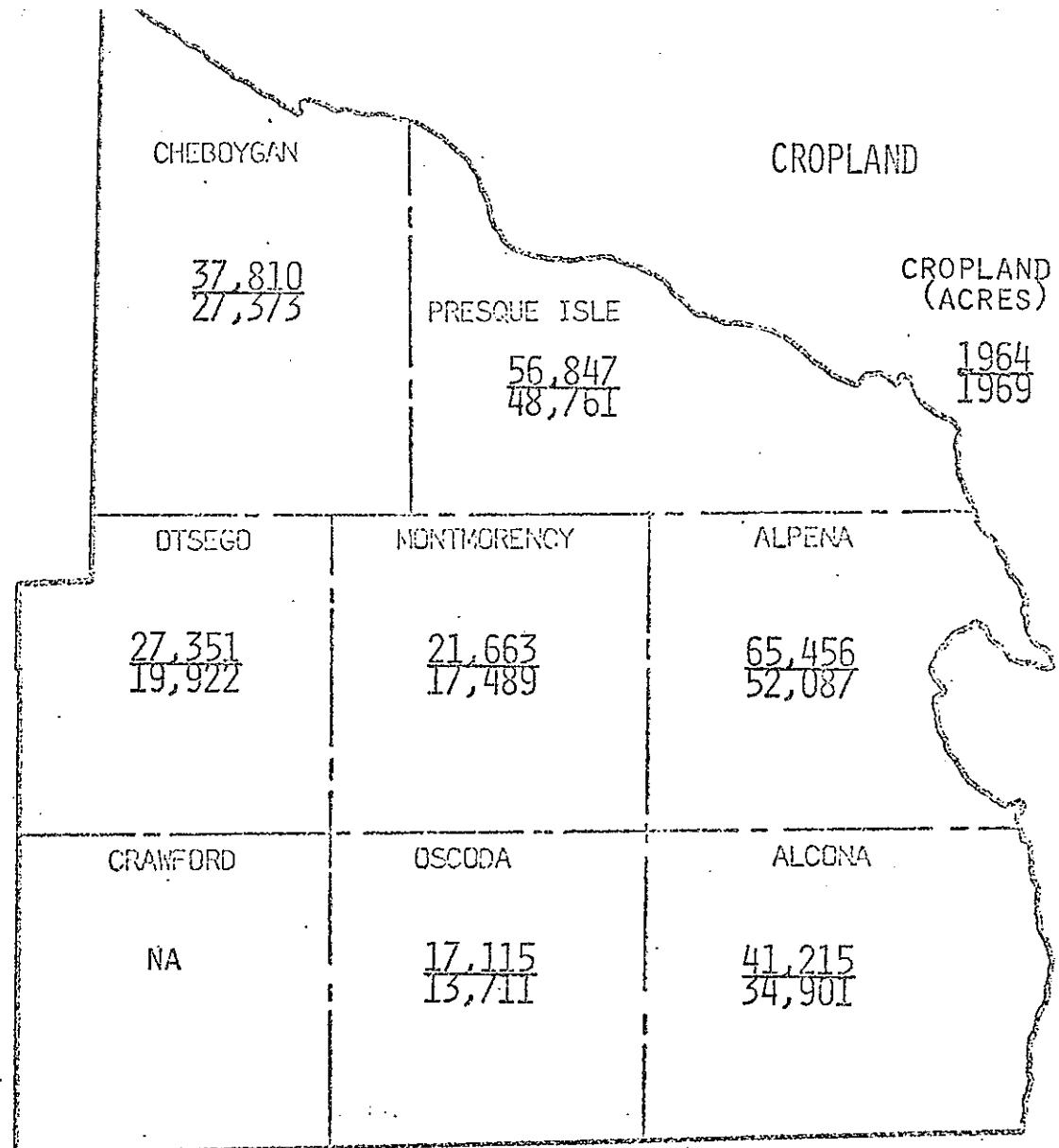


NE MICHIGAN AVERAGE

1969 - 225

1964 - 201 ----- INCREASE 10.7%

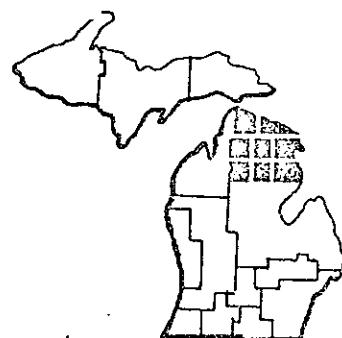
NEMCOG



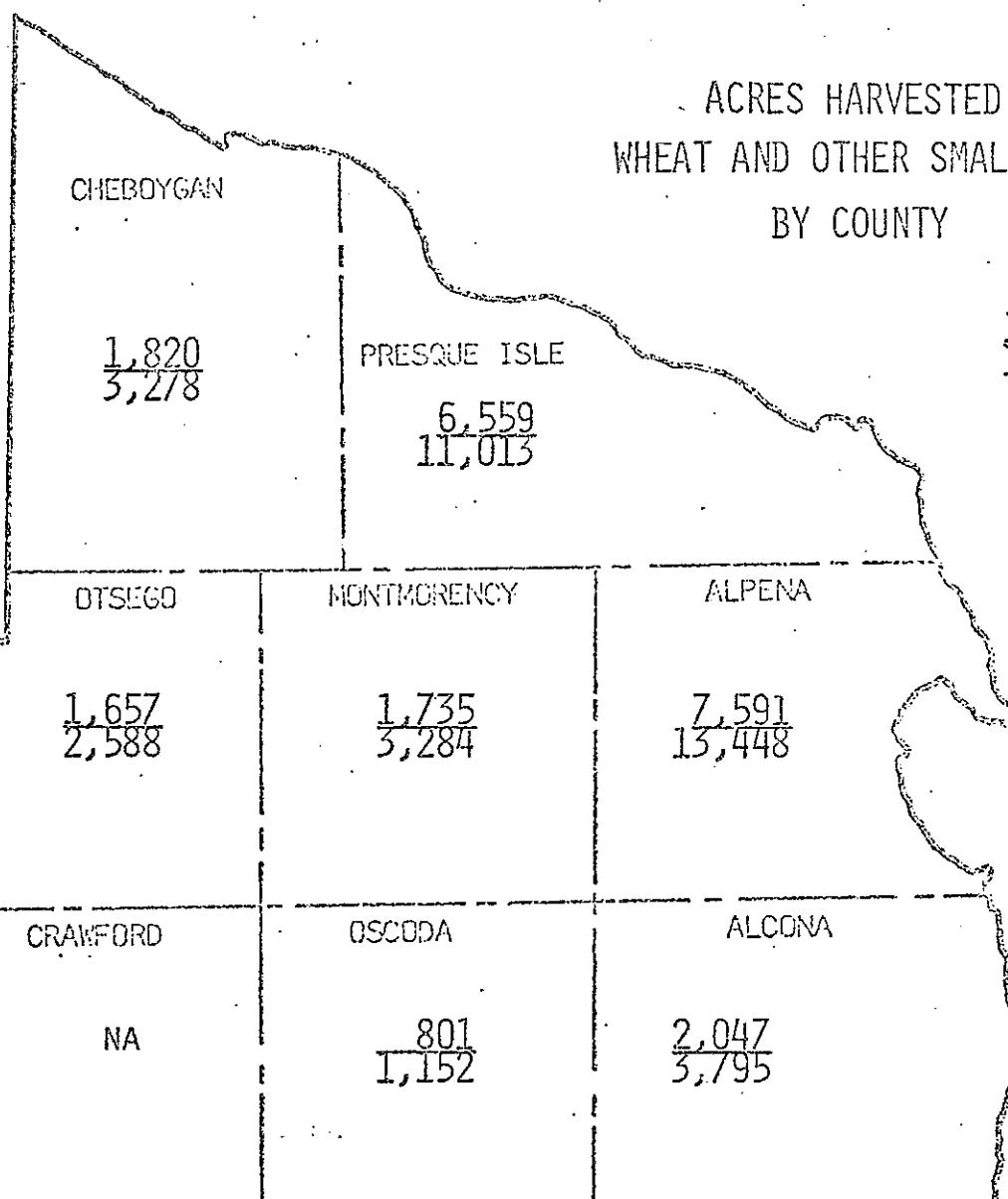
NE MICHIGAN REGION -

1969 TOTAL CROPLAND = 267,457 % OF TOTAL FARMLAND = 50.9

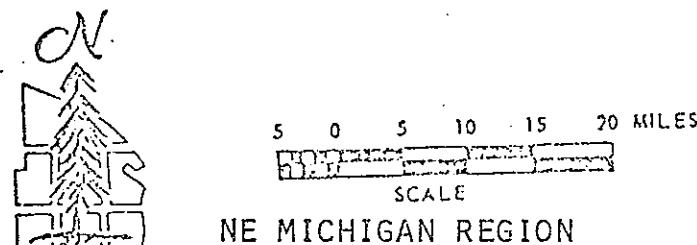
1964 TOTAL CROPLAND = 214,244 % OF TOTAL FARMLAND = 46.3



ACRES HARVESTED  
WHEAT AND OTHER SMALL GRAIN  
BY COUNTY

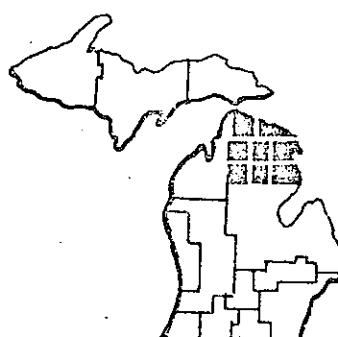


CHEBOYGAN	PRESQUE ISLE	
1,820 <u>3,278</u>	6,559 <u>11,013</u>	1969 1964
OTSEGO	MONTMORENCY	ALPENA
1,657 <u>2,588</u>	1,735 <u>3,284</u>	7,591 <u>13,448</u>
CRAWFORD	OSCODA	ALCONA
NA	801 <u>1,152</u>	2,047 <u>3,795</u>



1964 - 38,558

1969 - 22,210 -----% DECREASE 42.4

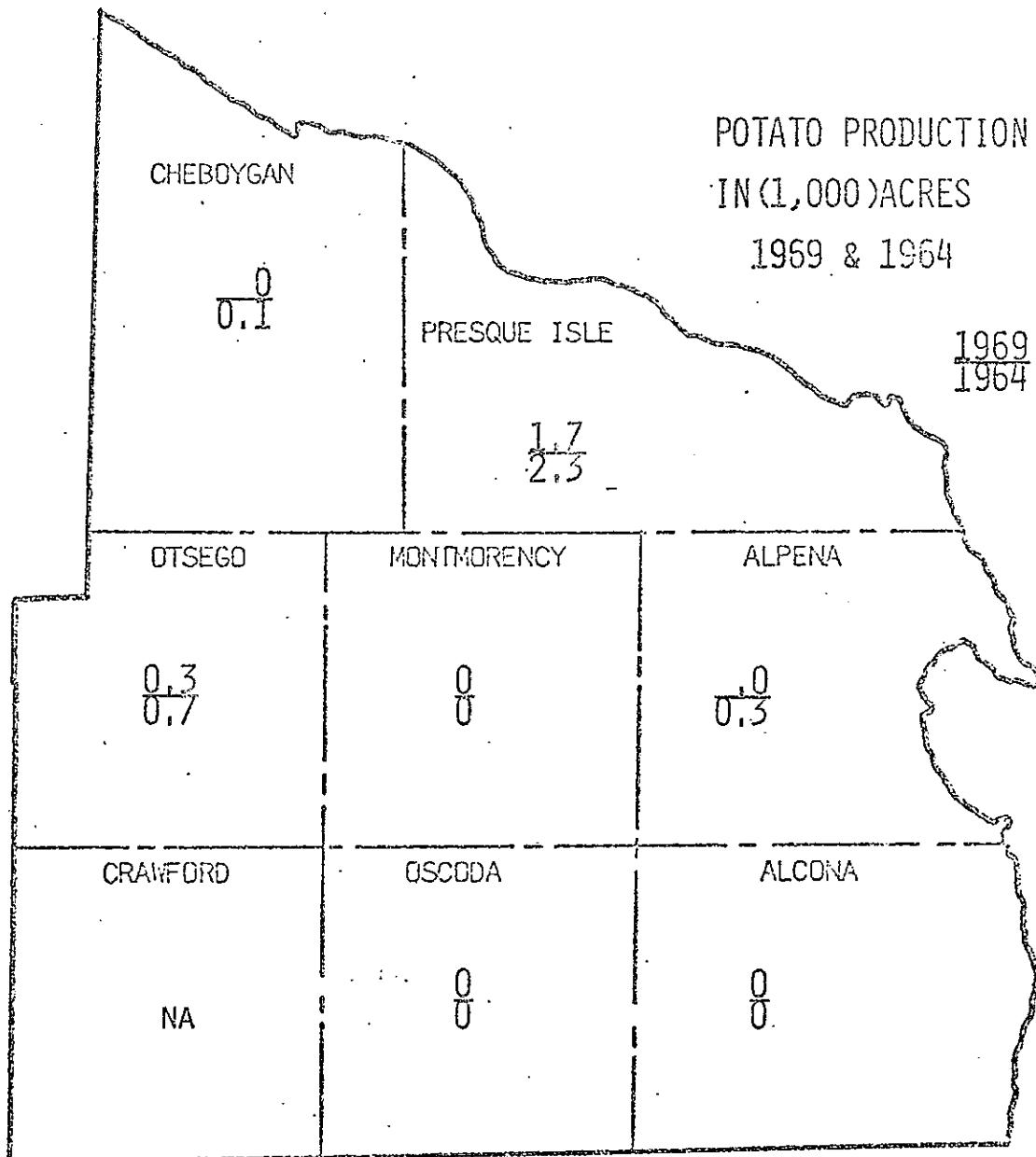


POTATO PRODUCTION

IN (1,000) ACRES

1969 & 1964

1969  
1964



5 0 5 10 15 20 MILES  
SCALE

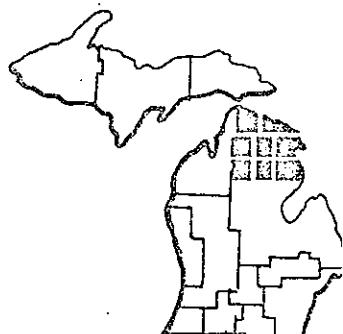
N.E. MICHIGAN REGION  
(1,000) ACRES

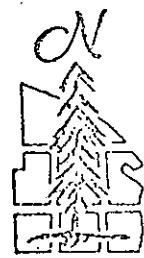
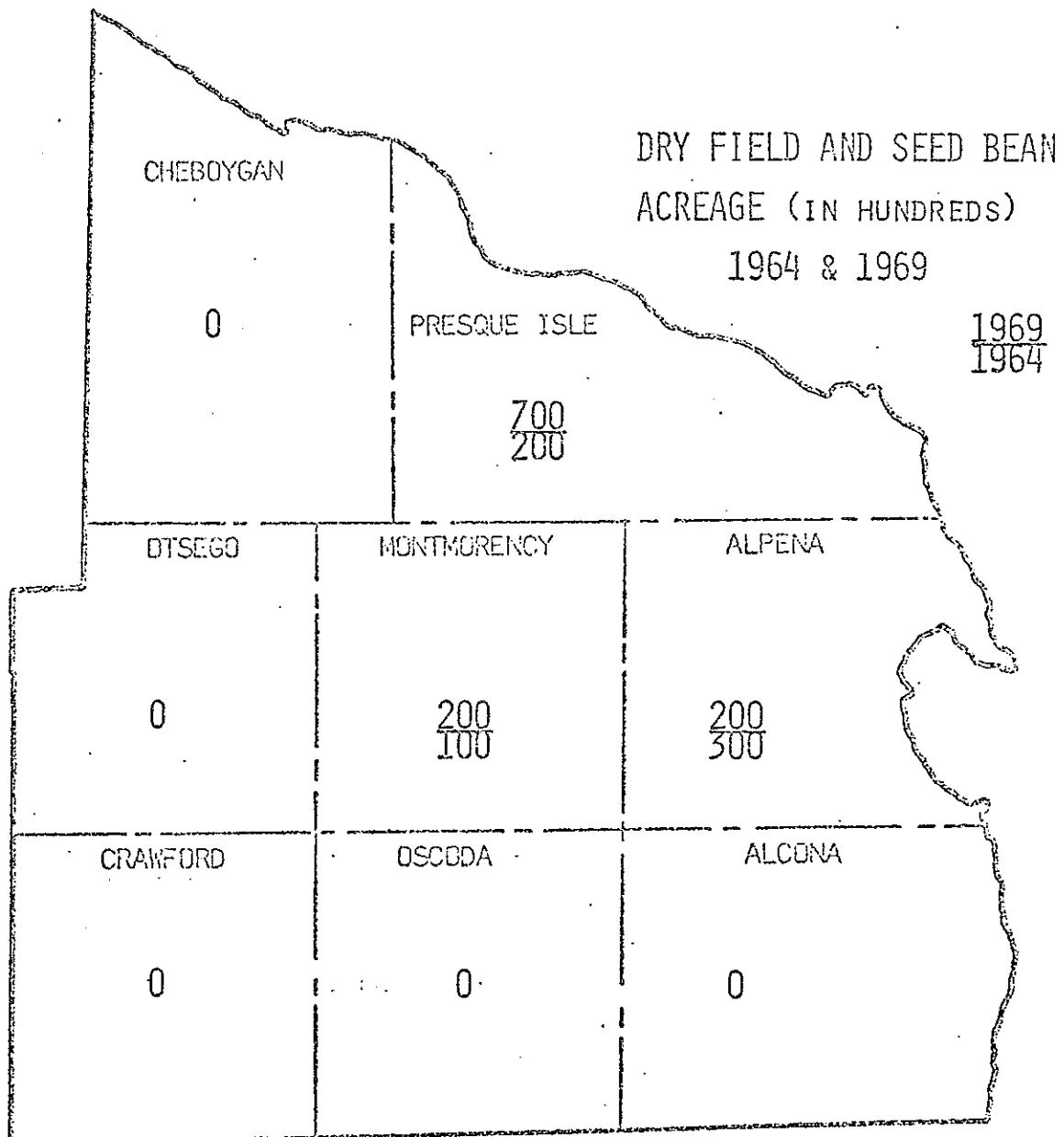
1964 - 3.4

1969 - 2.0

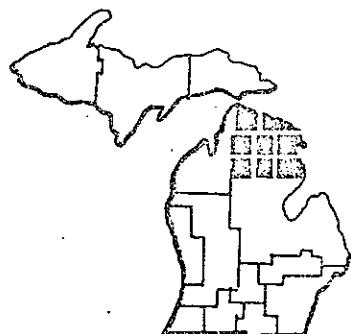
% DECREASE 41.2

NEMCOG





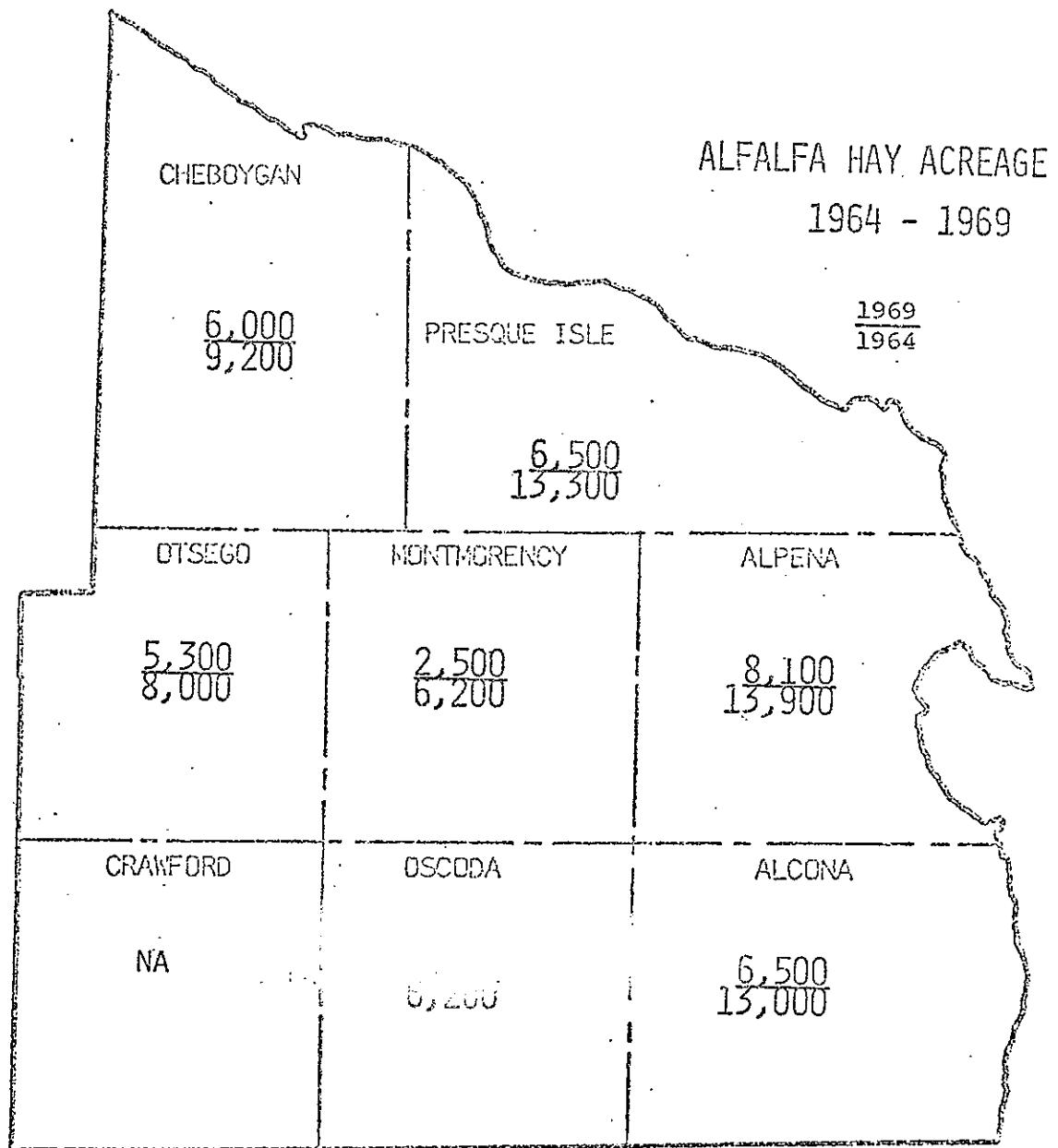
5 0 5 10 15 20 MILES  
SCALE



NE MICHIGAN REGION

1964 - 600

1969 - 1100 ----- % INCREASE 83.3



5 0 5 10 15 20 MILES  
SCALE

NE MICHIGAN REGION

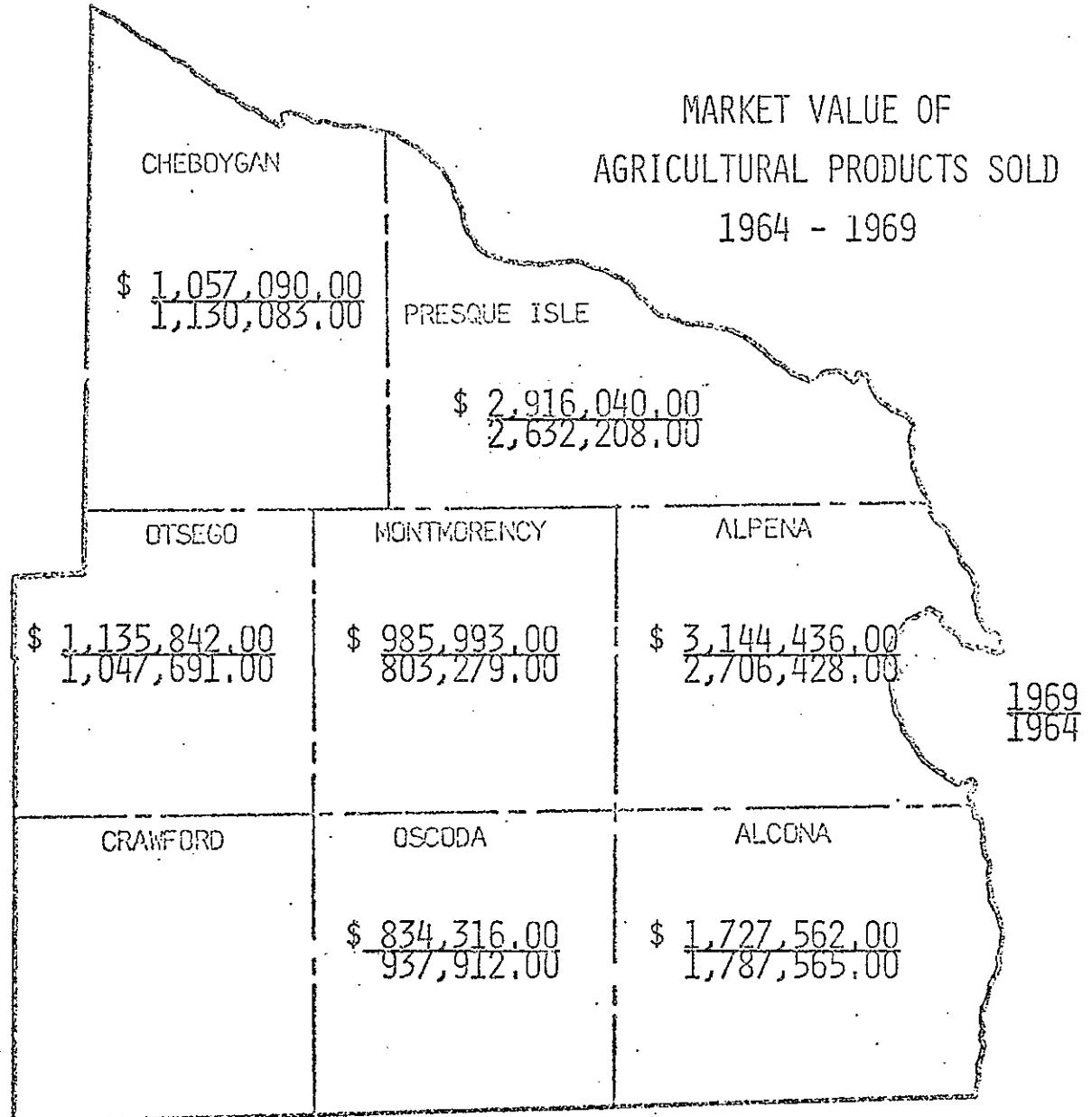
1964 - 69,800

1969 - 39,200 -----% DECREASE 43.8

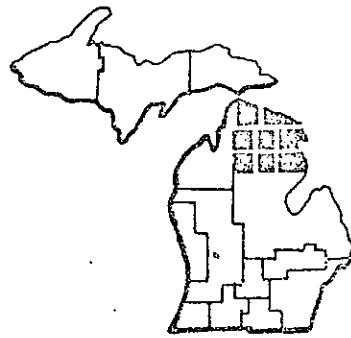


NEMCOG

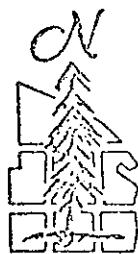
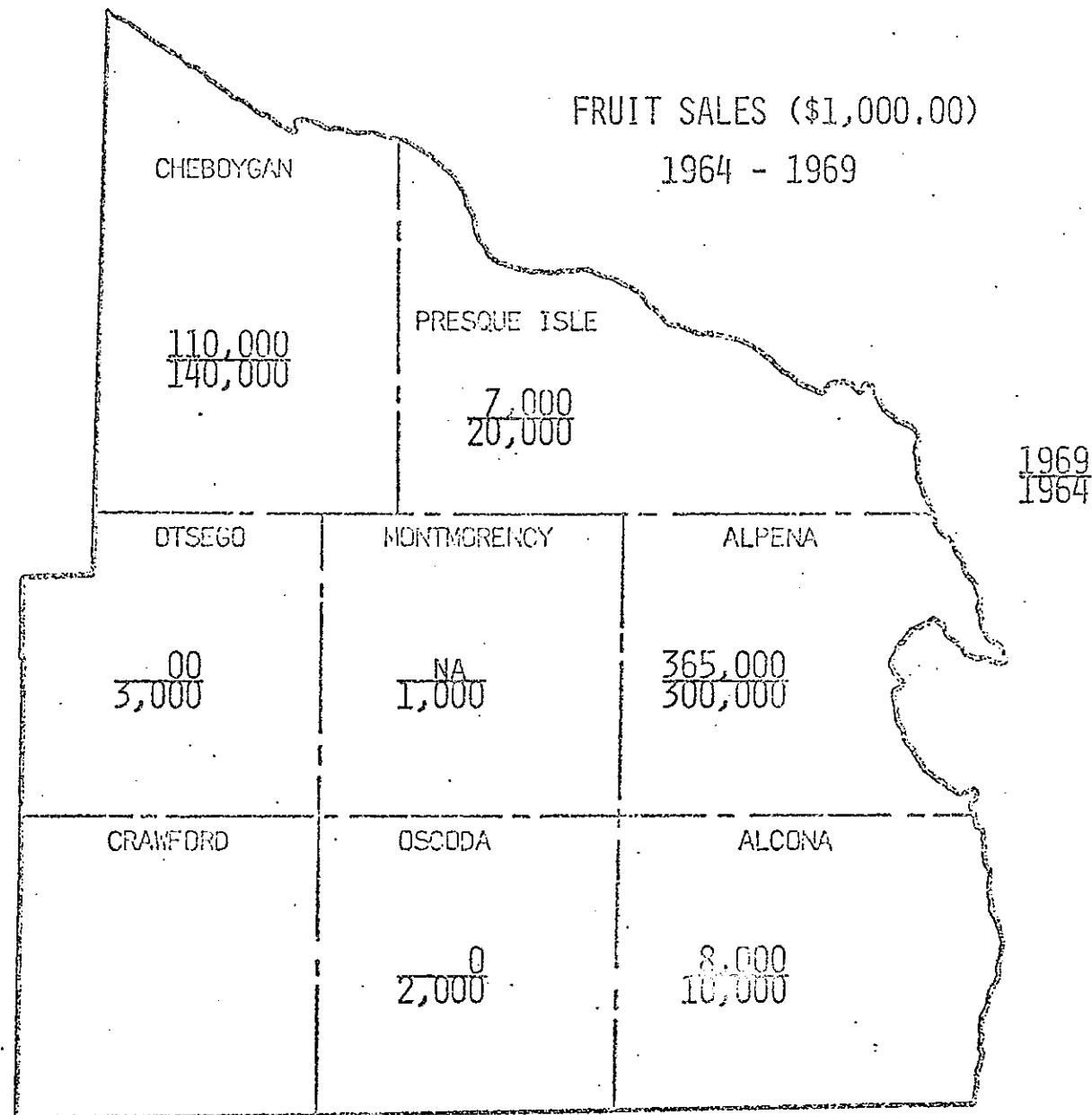
MARKET VALUE OF  
AGRICULTURAL PRODUCTS SOLD  
1964 - 1969



0 5 10 15 20 MILES  
SCALE



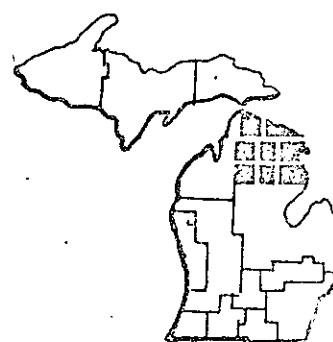
NEMCOG



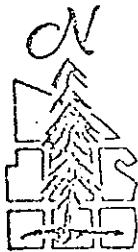
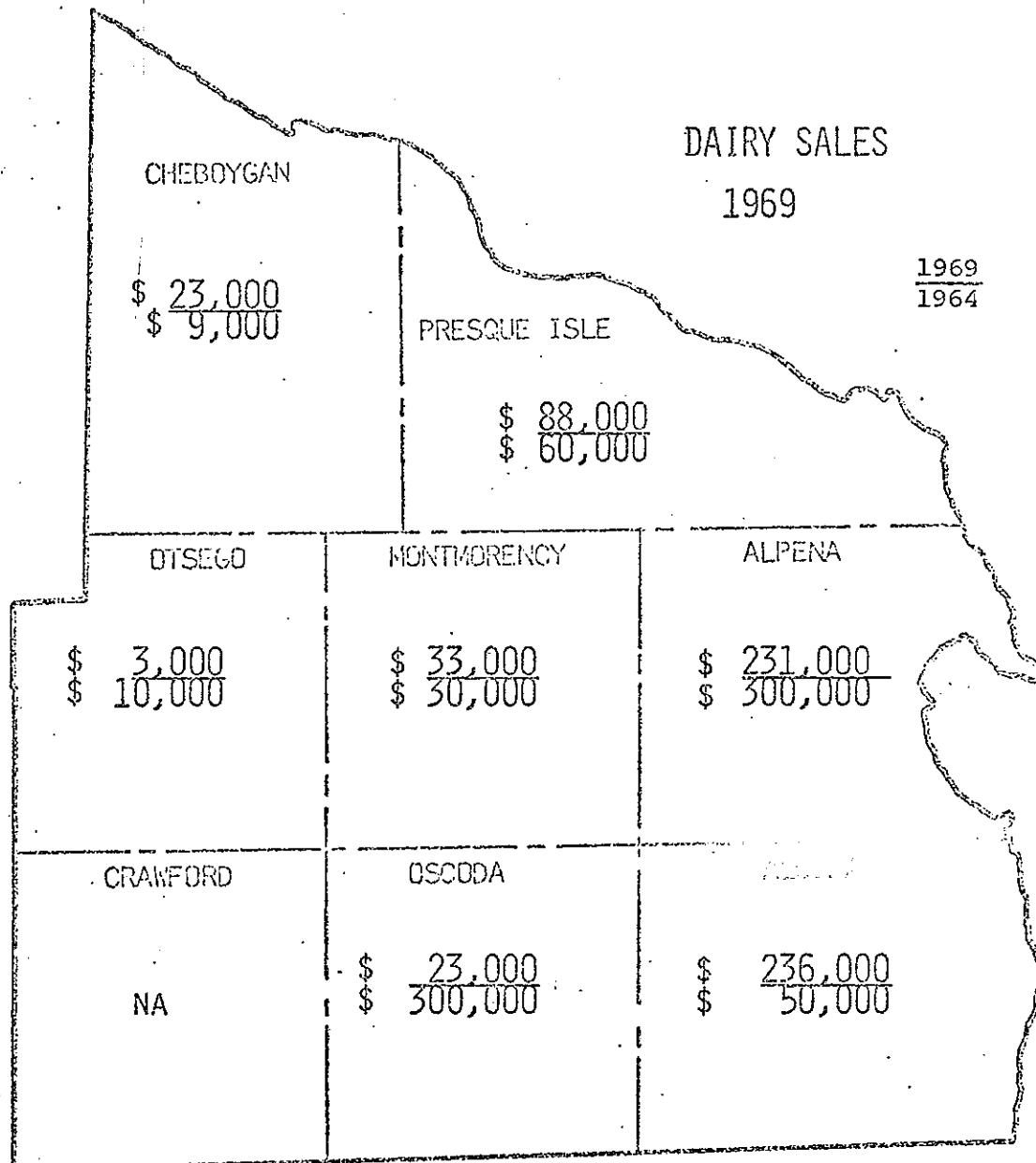
5 0 5 10 15 20 MILES  
SCALE

#### NE MICHIGAN REGION

1964 - 496,000  
1969 - 490,000 -----% DECREASE 1.2



NEMCOG



5 0 5 10 15 20 MILES  
SCALE

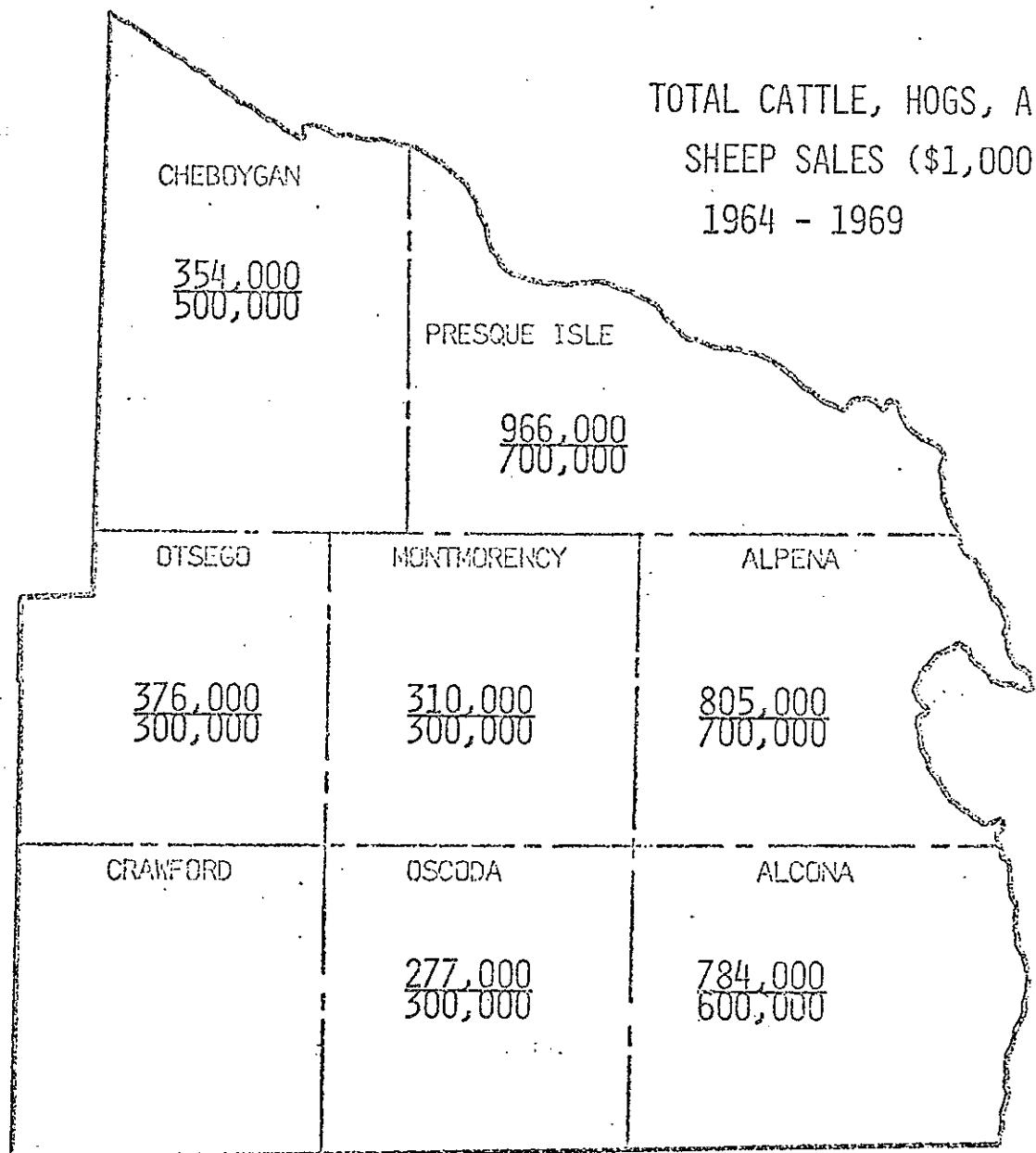
#### NE MICHIGAN REGION

1964 -\$ 759,000

-----% DECREASE - 16.1  
1969 -\$ 637,000



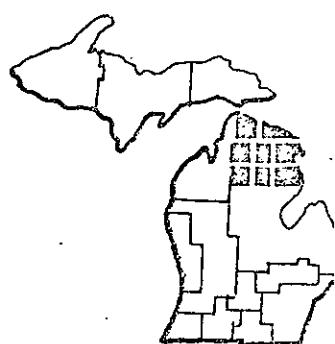
NEMCOG



5 0 5 10 15 20 MILES  
SCALE

#### NE MICHIGAN REGION

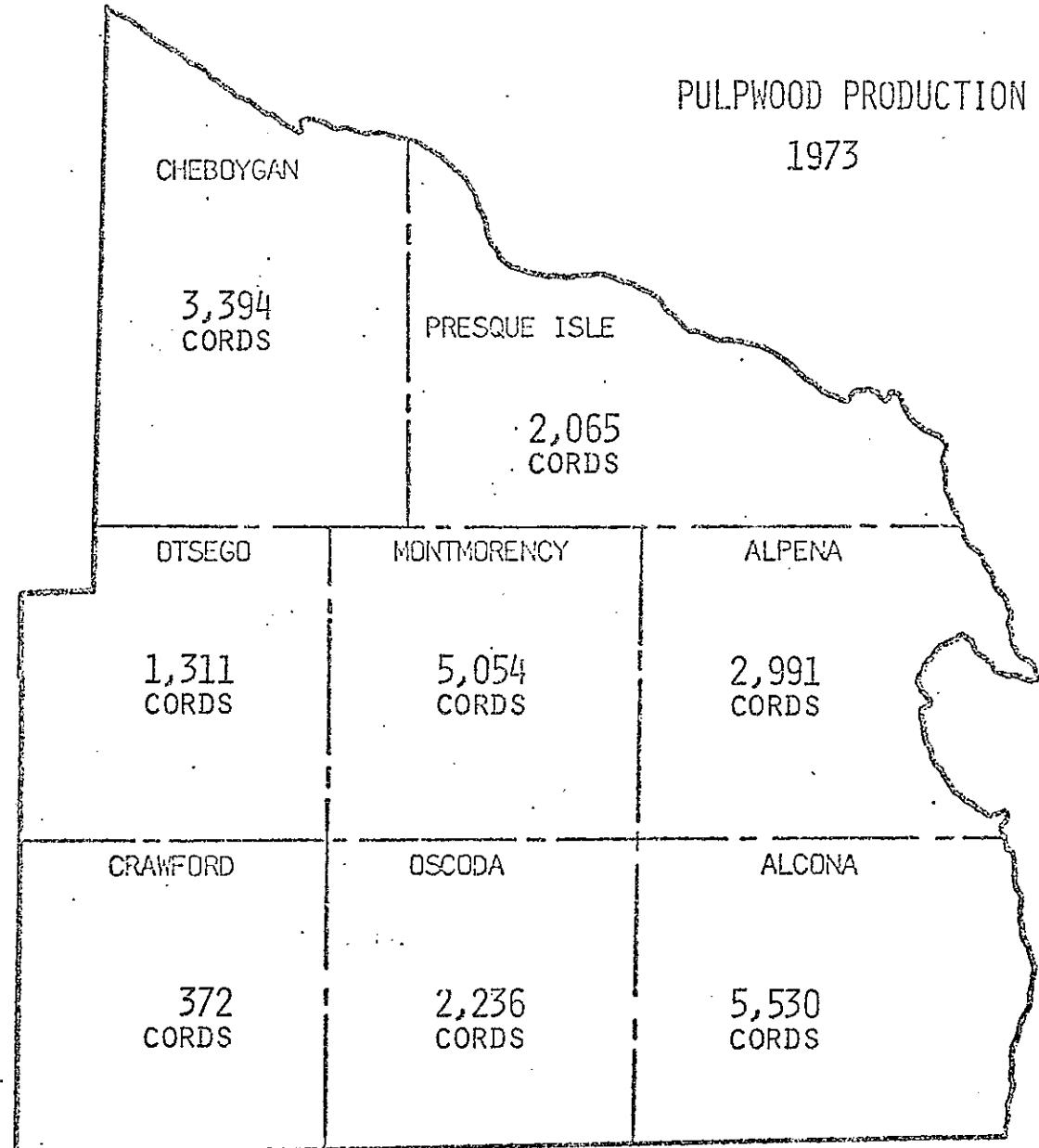
1964 - 3,400,000  
1969 - 3,872,000 -----% INCREASE 13.9



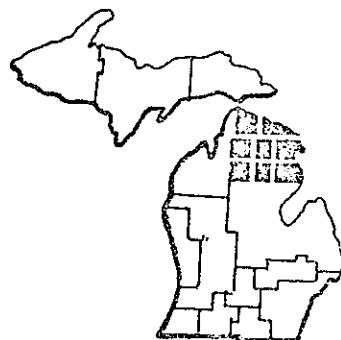
NEMCOG

## PULPWOOD PRODUCTION

1973

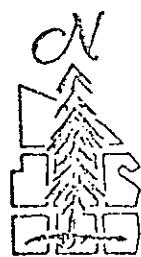
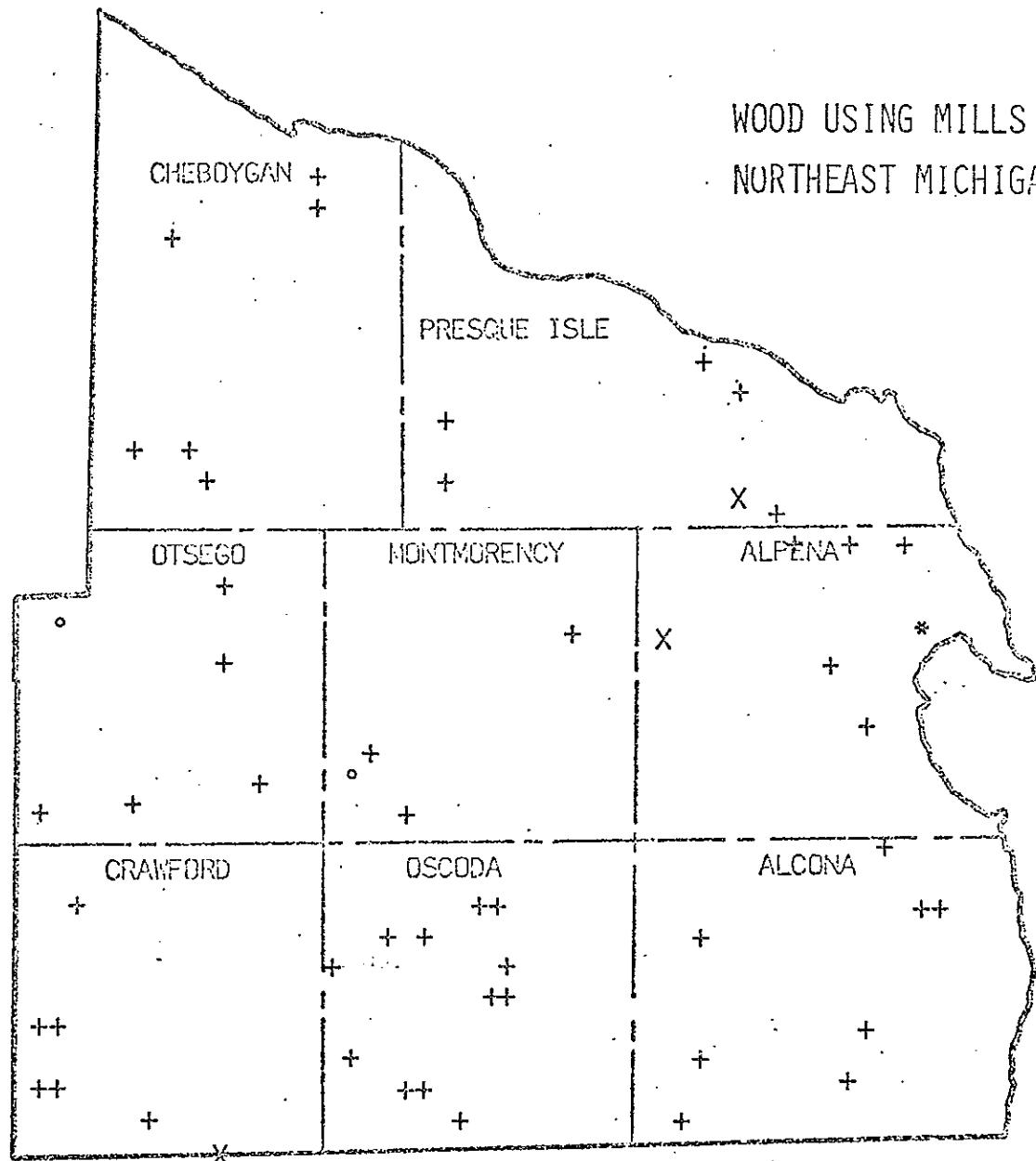


5 0 5 10 15 20 MILES  
SCALE



NEMCOG

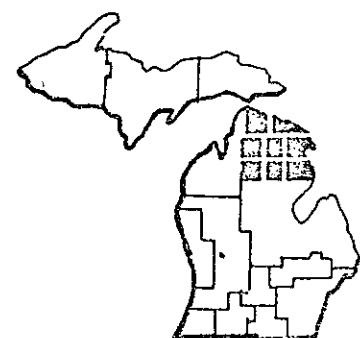
WOOD USING MILLS IN  
NORTHEAST MICHIGAN



5 0 5 10 15 20 MILES  
SCALE

LEGEND

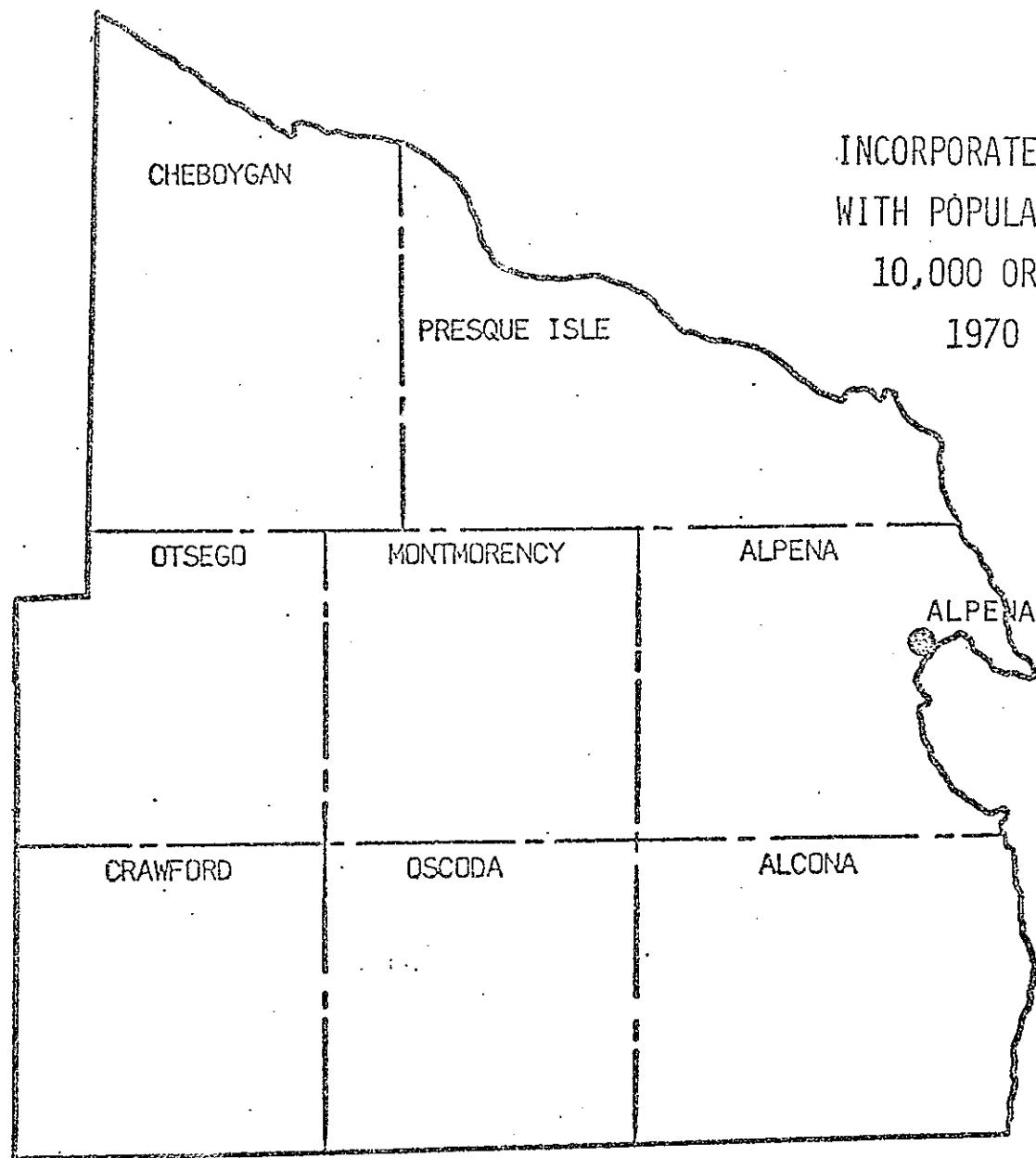
- \* HARD BOARD
- + SAW MILL
- X CEDAR FENCE
- CEDAR LOG



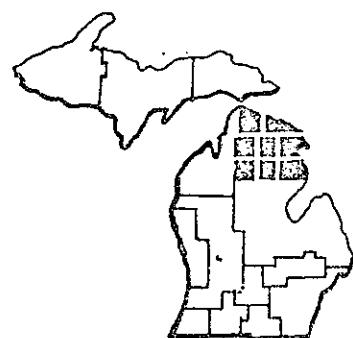
NEMCOG

# SERVICES

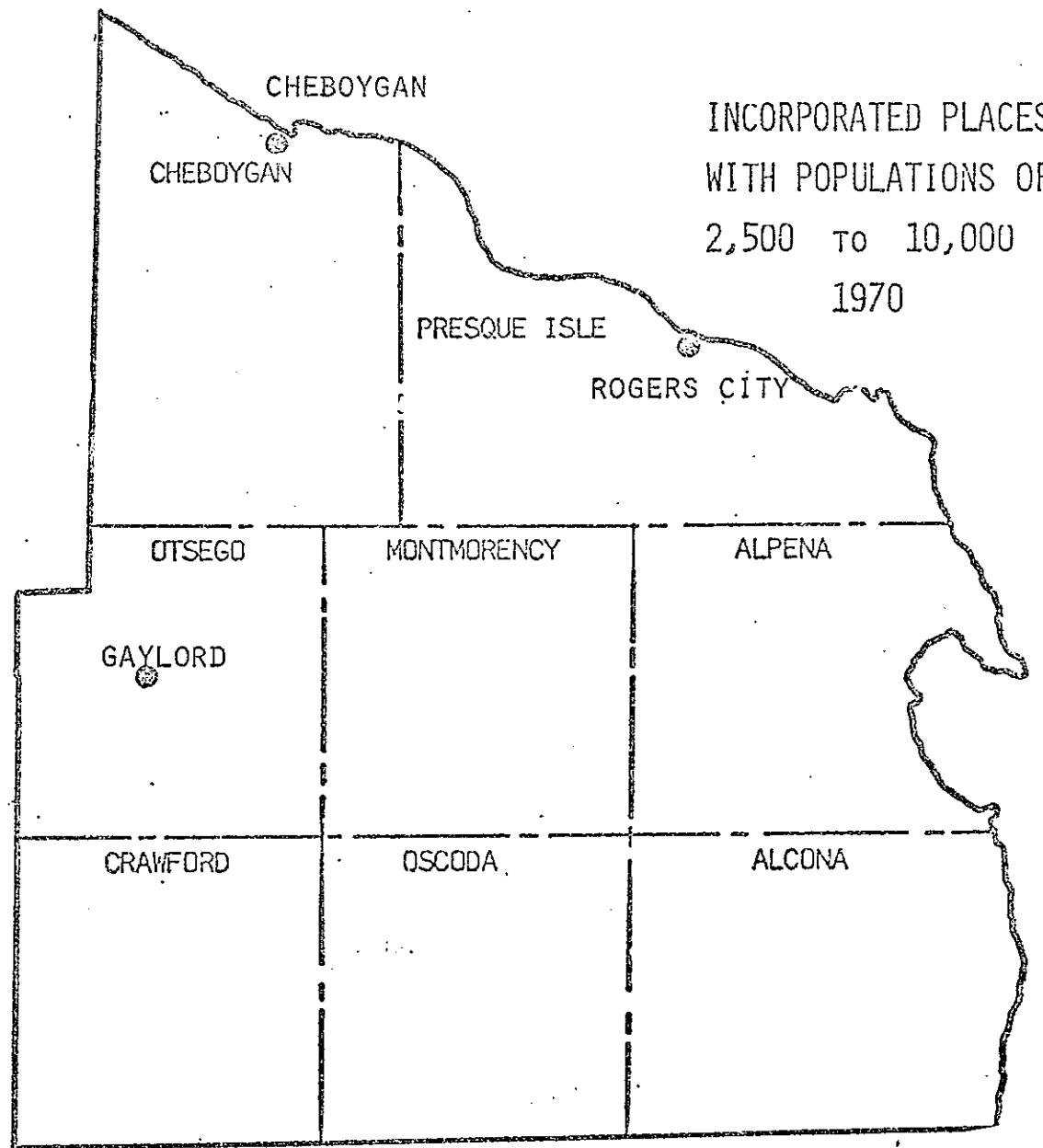
INCORPORATED PLACES  
WITH POPULATIONS OF  
10,000 OR MORE  
1970



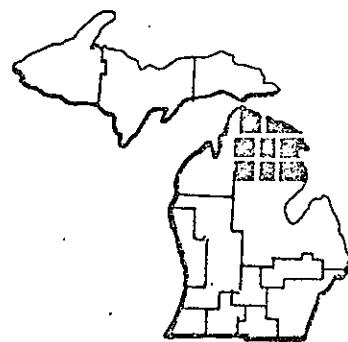
5 0 5 10 15 20 MILES  
SCALE



NEMCOG



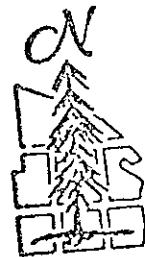
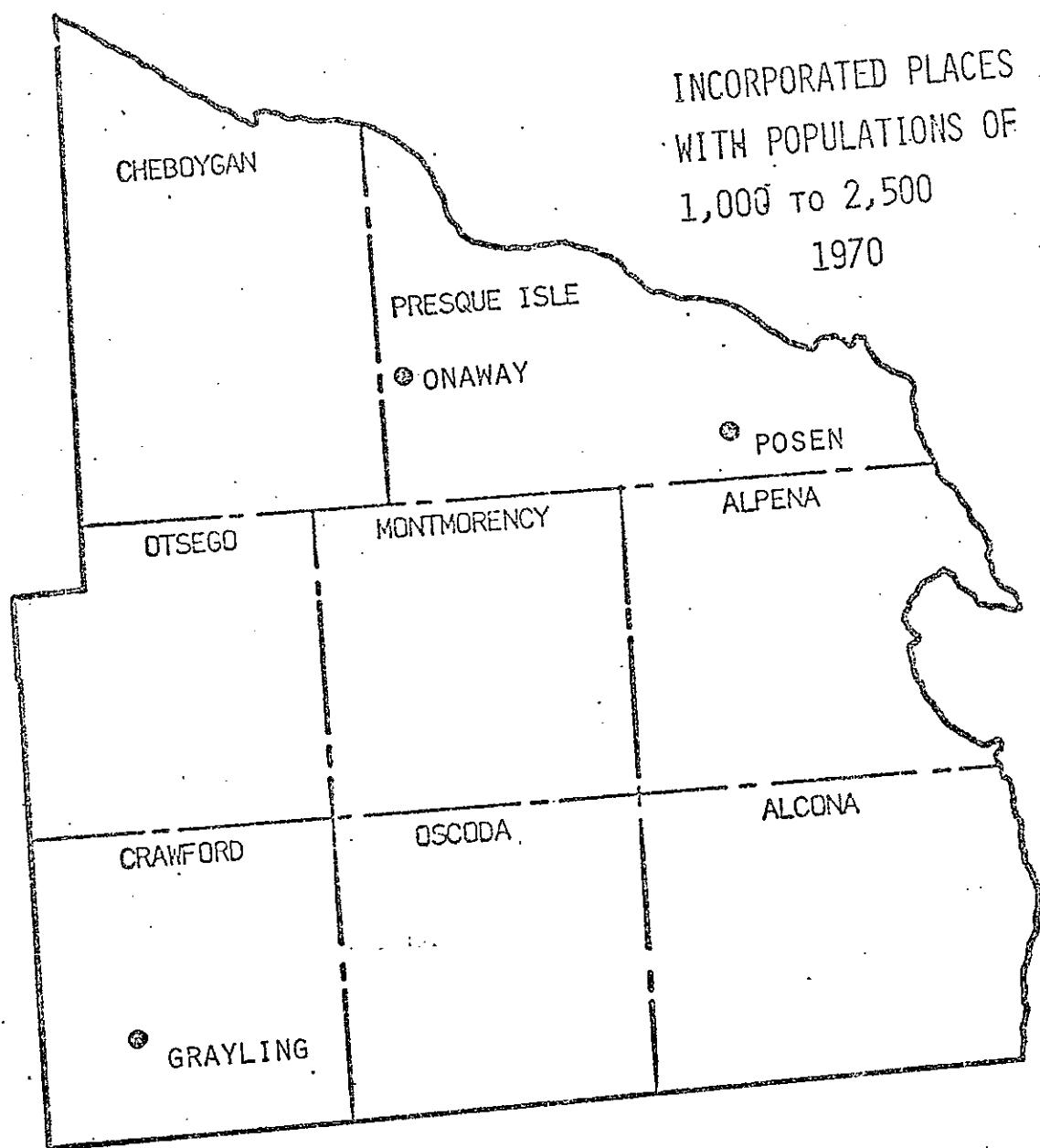
5 0 5 10 15 20 MILES  
SCALE



NEMCOG

INCORPORATED PLACES  
WITH POPULATIONS OF  
1,000 TO 2,500

1970



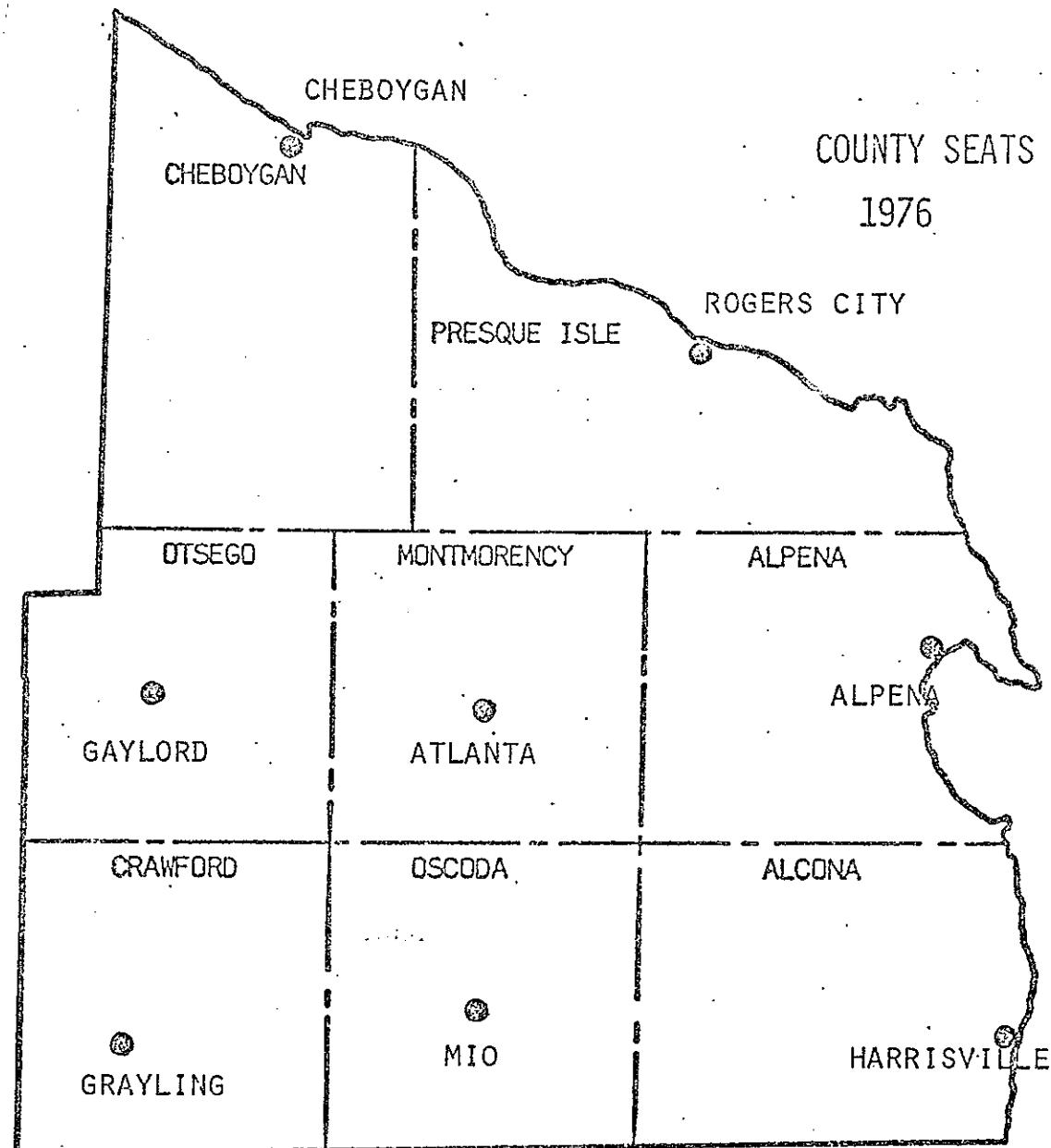
5 0 5 10 15 20 MILES  
SCALE



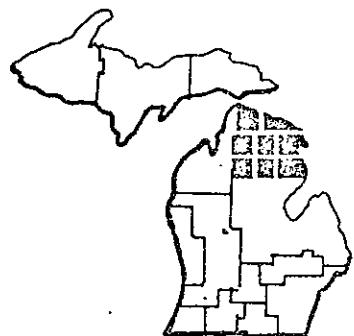
NEMCO

COUNTY SEATS

1976

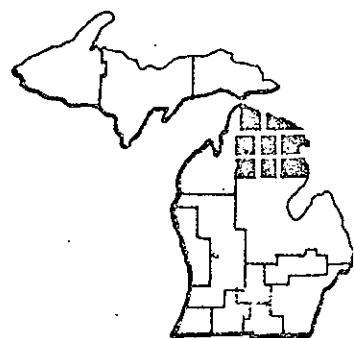
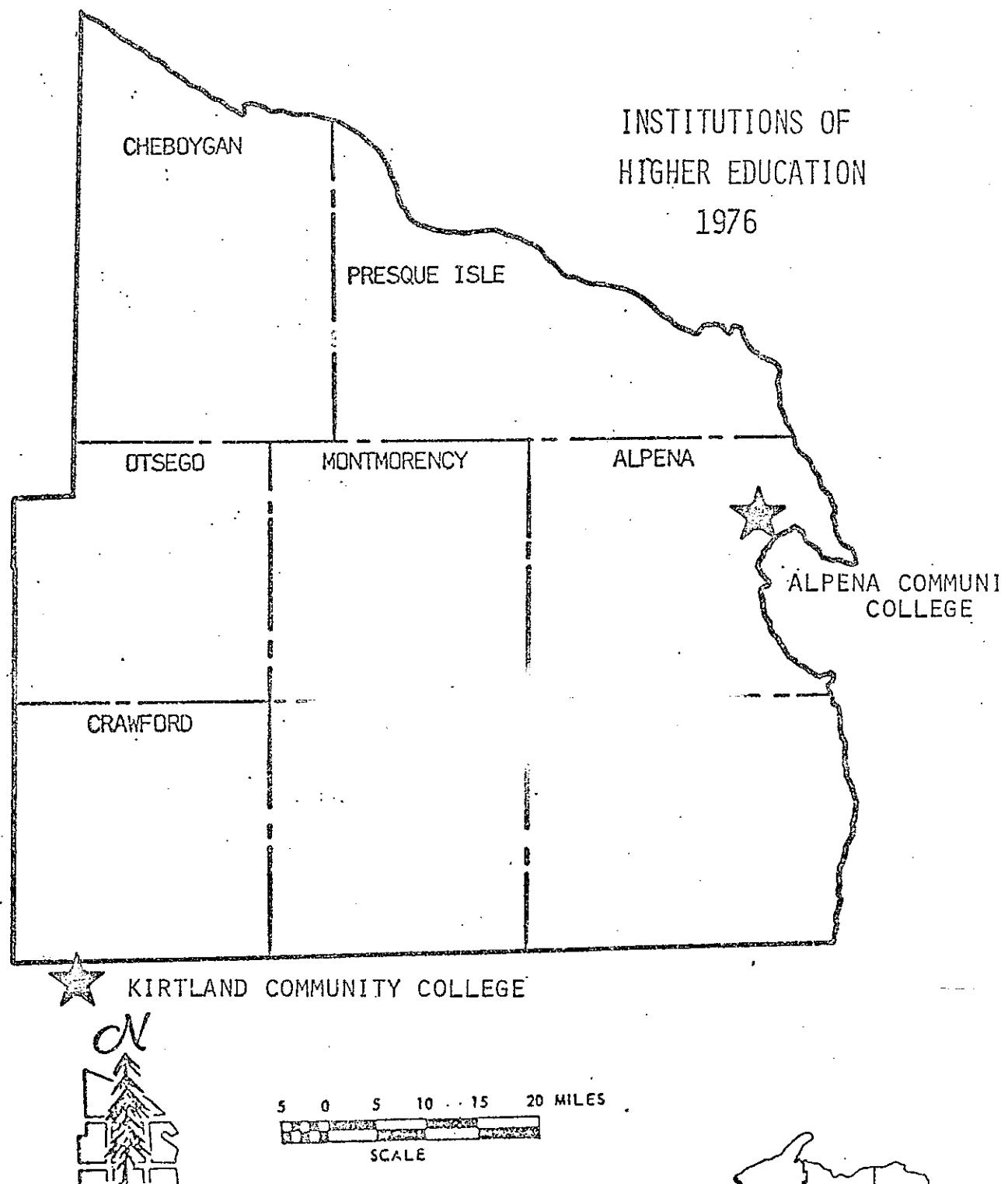


5 0 5 10 15 20 MILES  
SCALE



NEMCOG

INSTITUTIONS OF  
HIGHER EDUCATION  
1976



NEMCOG

INTERMEDIATE SCHOOL  
DISTRICTS

CHEBOYGAN

PRESQUE ISLE

C.O.P. INTERMEDIATE SCHOOL DISTRICT

(Cheboygan, Otsego and Presque Isle  
Counties)

OTSEGO

MONTMORENCY

ALPENA

A.M.A. INTERMEDIATE SCHOOL DISTRICT

(Alcona, Montmorency and Alpena  
Counties)

CRAWFORD

OSSOCOA

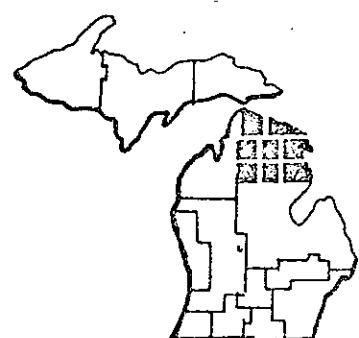
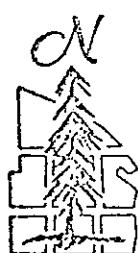
ALCONA

C.O.O.R. INTERMEDIATE SCHOOL DISTRICT

(Crawford, Oscoda, Ogemaw and  
Roscommon Counties)

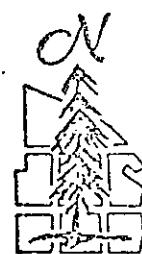
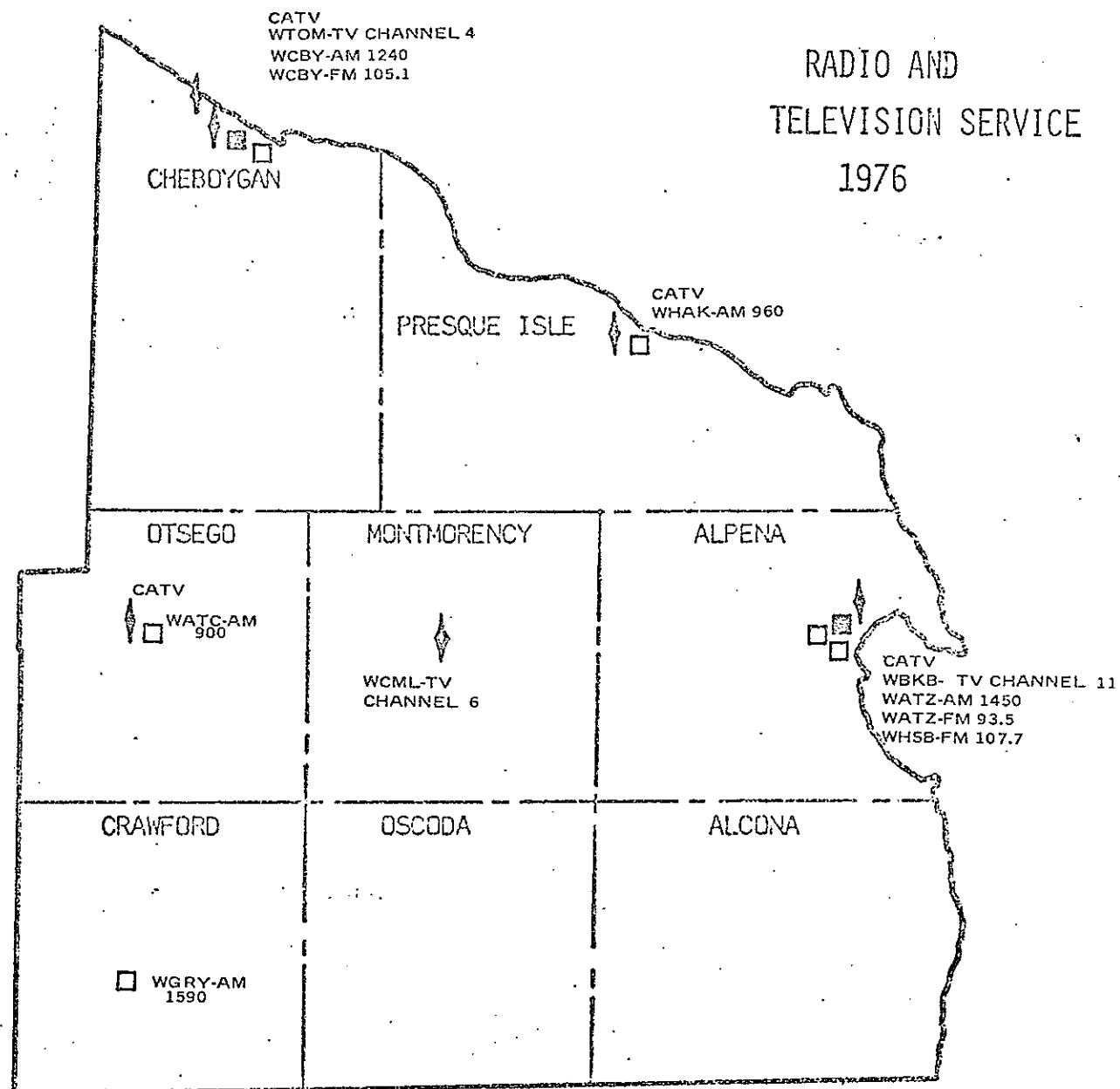
5 0 5 10 15 20 MILES

SCALE



NEMCOG

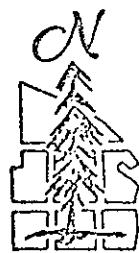
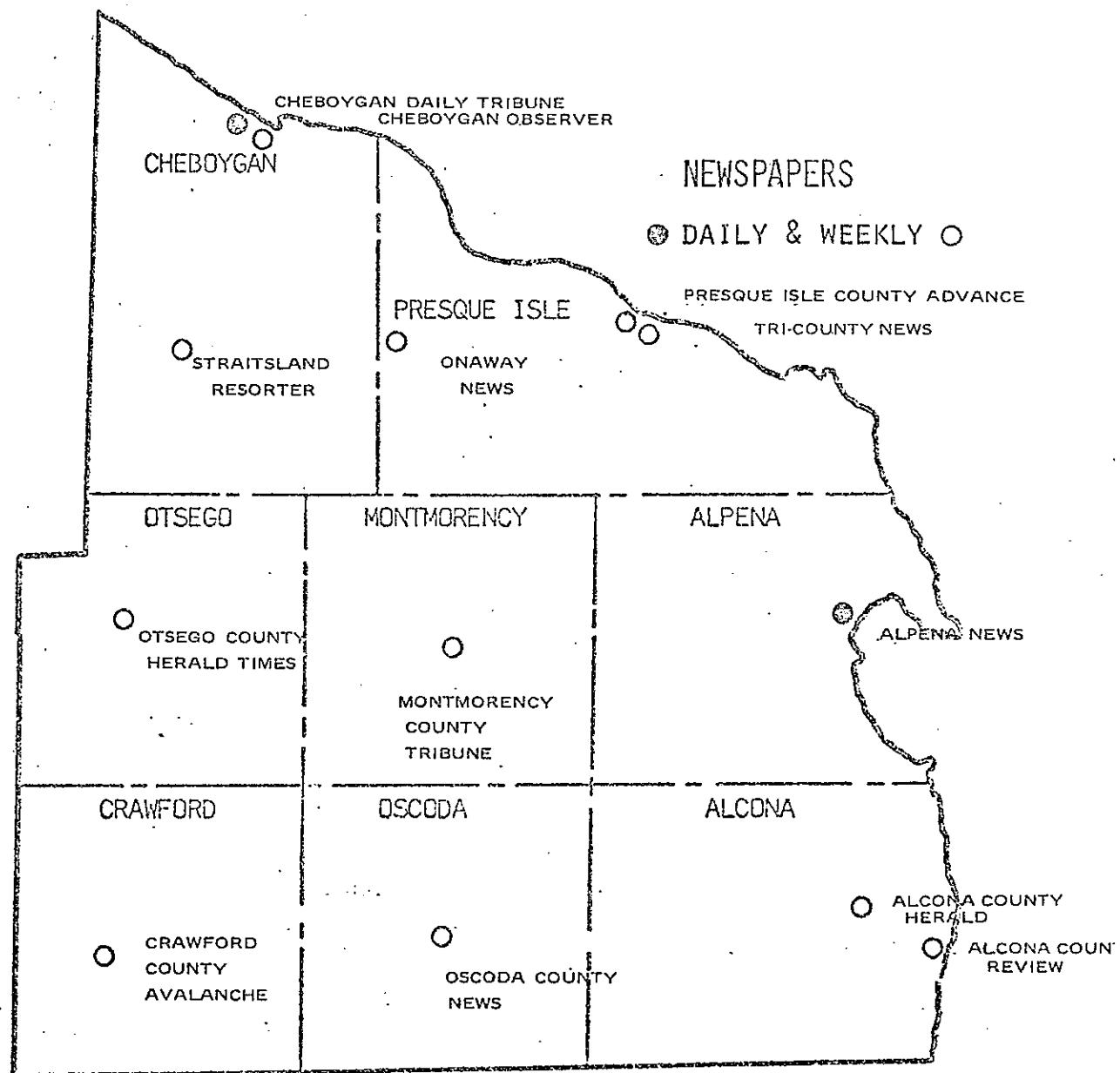
RADIO AND  
TELEVISION SERVICE  
1976



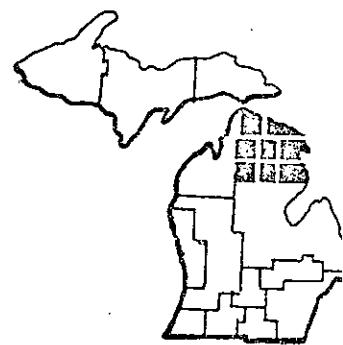
5 0 5 10 15 20 MILES  
SCALE



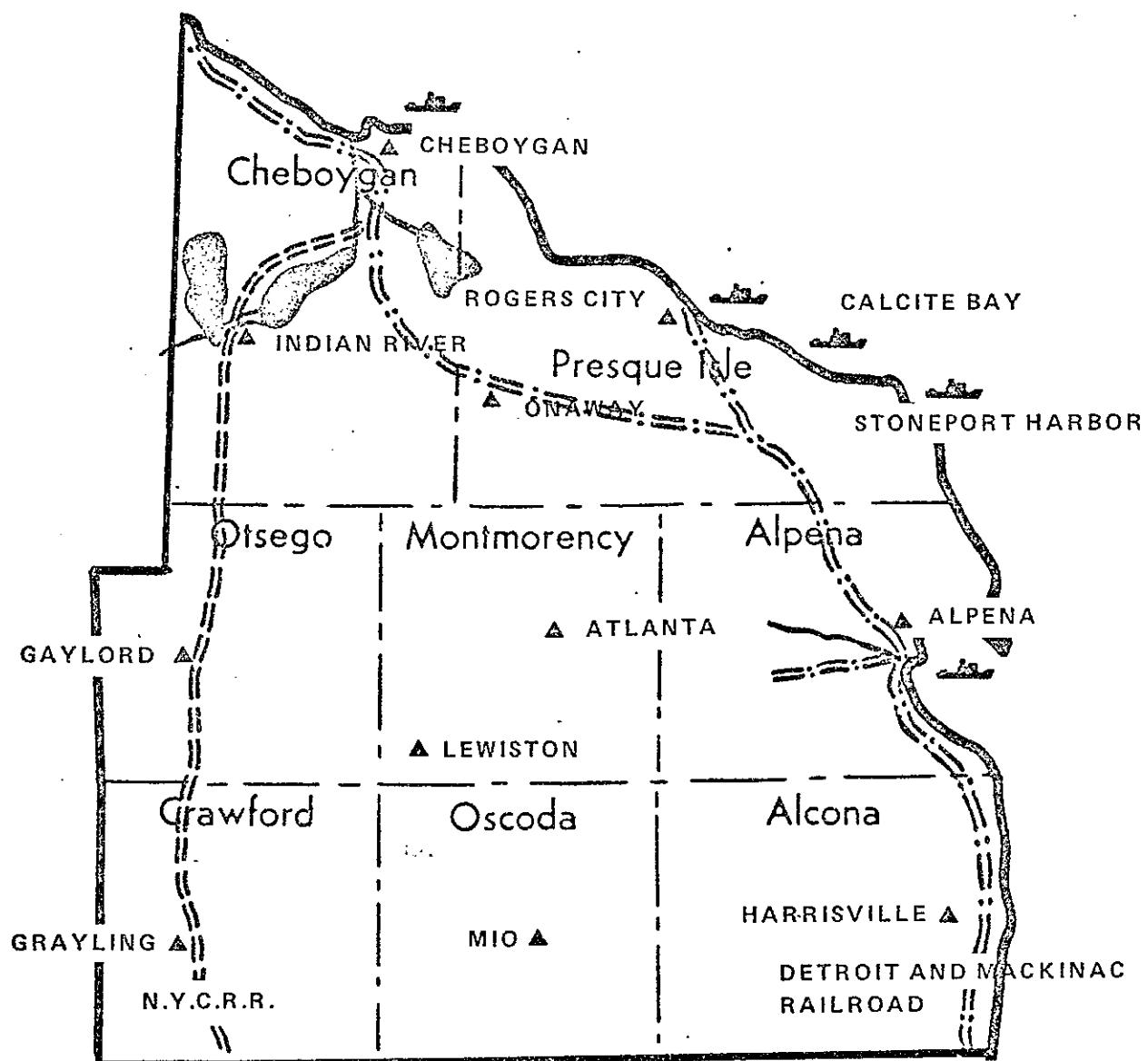
NEMCOG



5 0 5 10 15 20 MILES  
SCALE

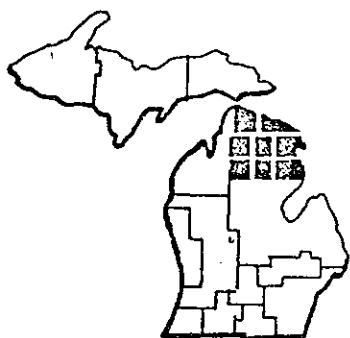


NEMCOG



5 0 5 10 15 20 MILES  
SCALE

- Shipping
- Waterway
- Railroad
- Airport



NEMCOG

STATE ELECTRICAL  
INSPECTION AREAS

1975

CHEBOYGAN

PRESQUE ISLE

AREA 3

OTSEGO

MONTMORENCY

ALPENA

AREA 7

CRAWFORD

OSCODA

ALCONA

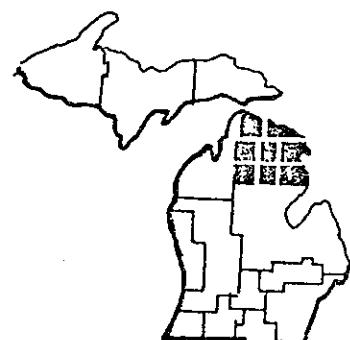


5 0 5 10 15 20 MILES

SCALE

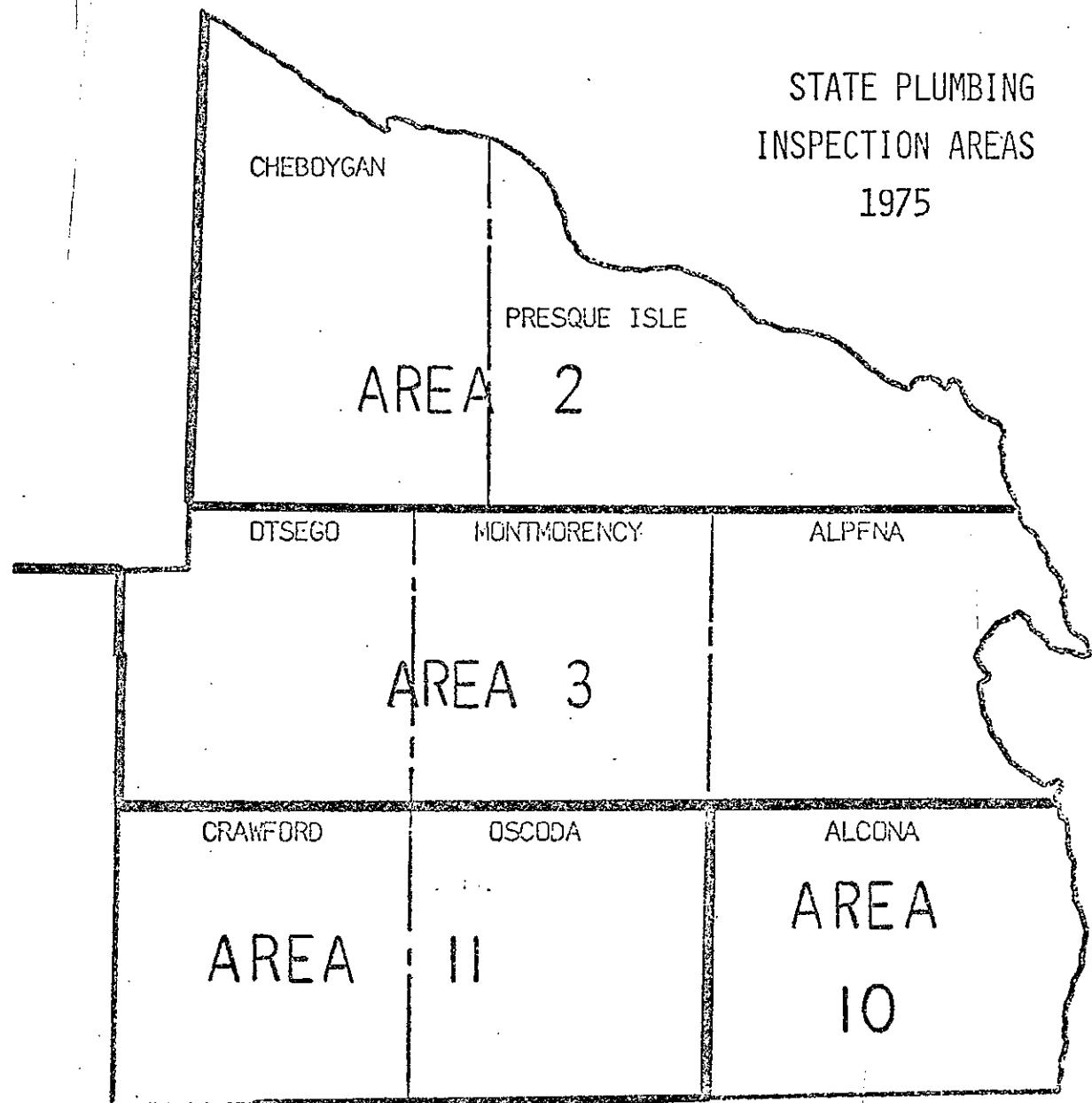
Inspectors

Area 3 - Lawrence Yax  
Area 7 - Daniel Waltz



NEMCOG

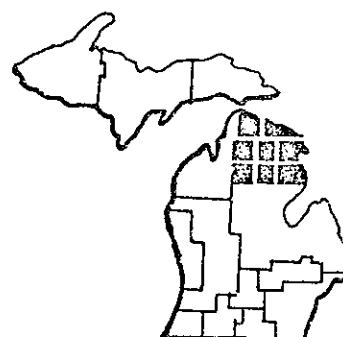
STATE PLUMBING  
INSPECTION AREAS  
1975



5 0 5 10 15 20 MILES  
SCALE

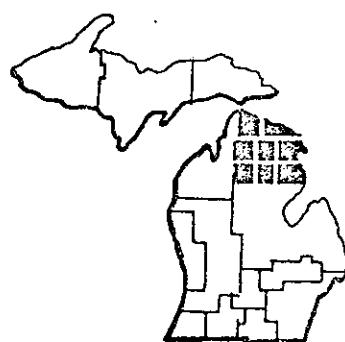
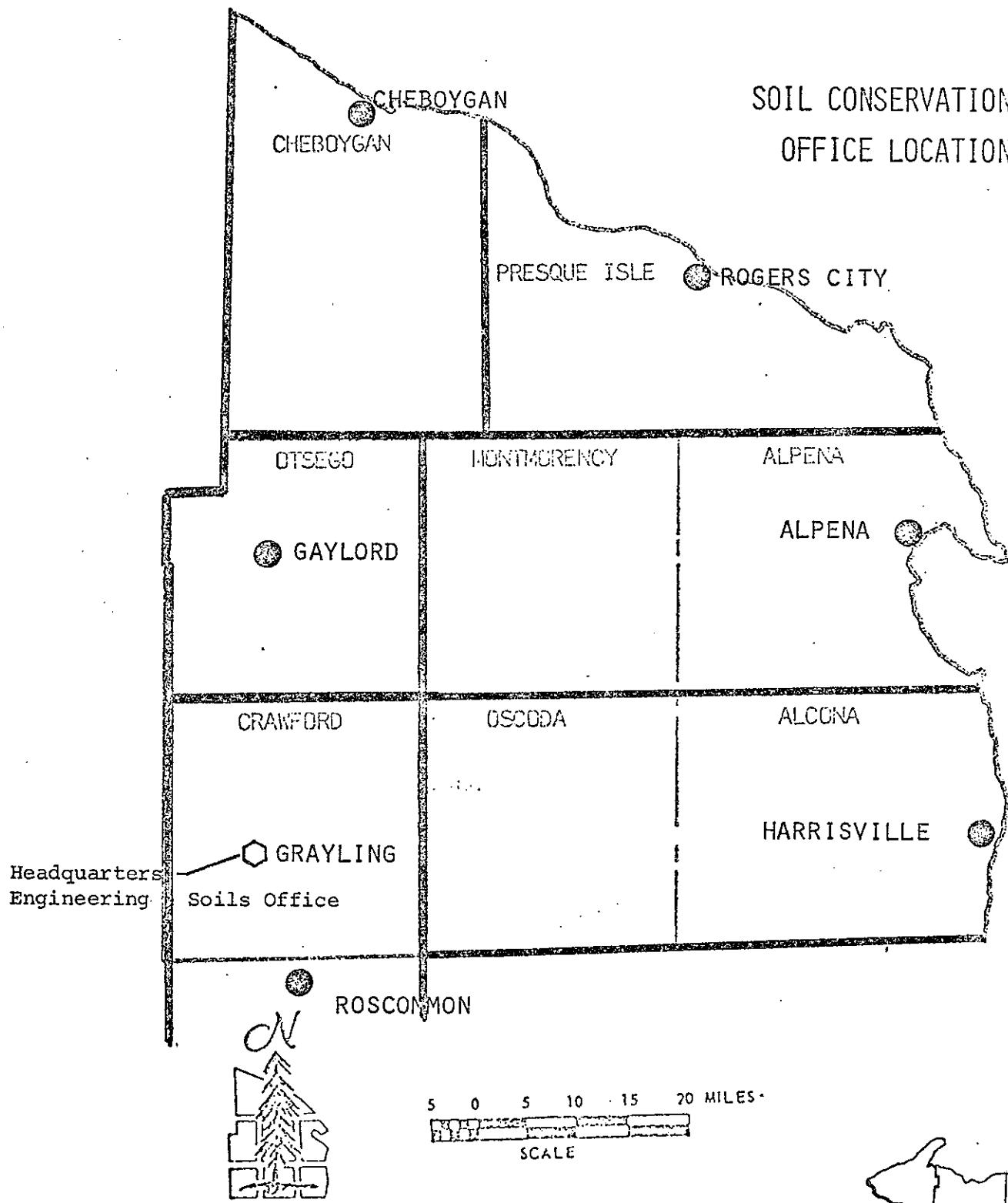
Inspectors

- |     |                    |                |
|-----|--------------------|----------------|
| 2-  | T. Duncan MacLaren | (906) 635-1314 |
| 3-  | James Cummings     | (517) 742-4456 |
| 10- | Edwin Carter       | (517) 389-4149 |
| 11- | Alvin Schultz      | (517) 366-7509 |

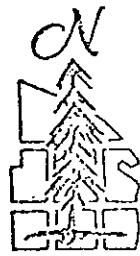
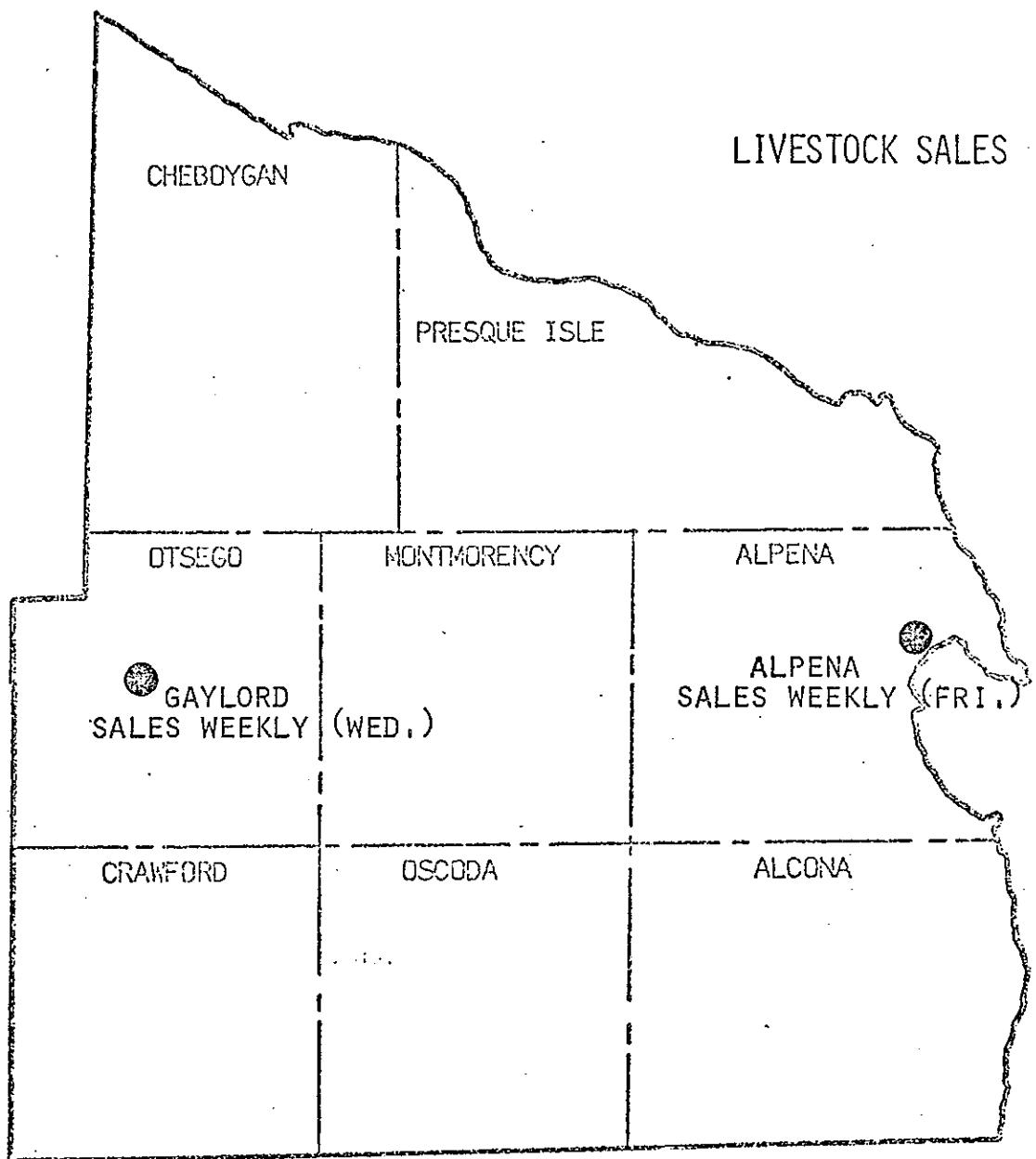


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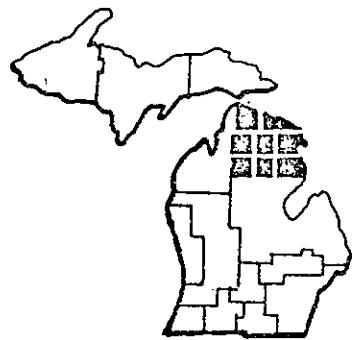
SOIL CONSERVATION SERVICE  
OFFICE LOCATIONS



NEMCOG



5 0 5 10 15 20 MILES  
SCALE



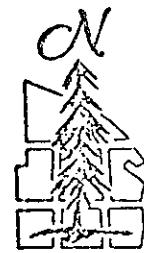
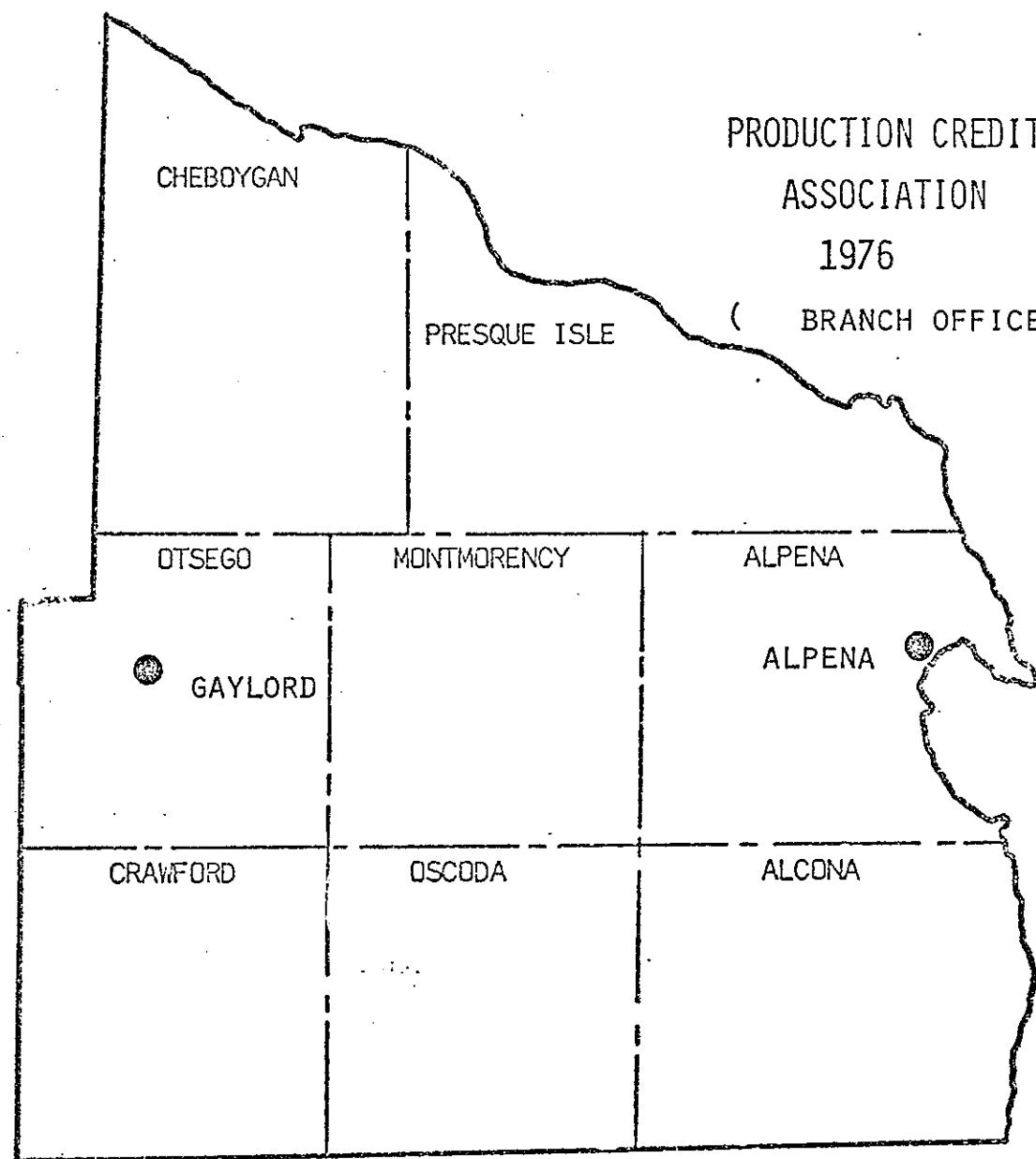
**NEMCOG**

PRODUCTION CREDIT

ASSOCIATION

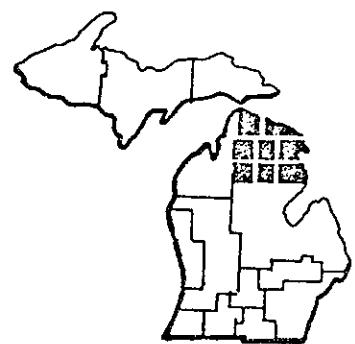
1976

( BRANCH OFFICE )



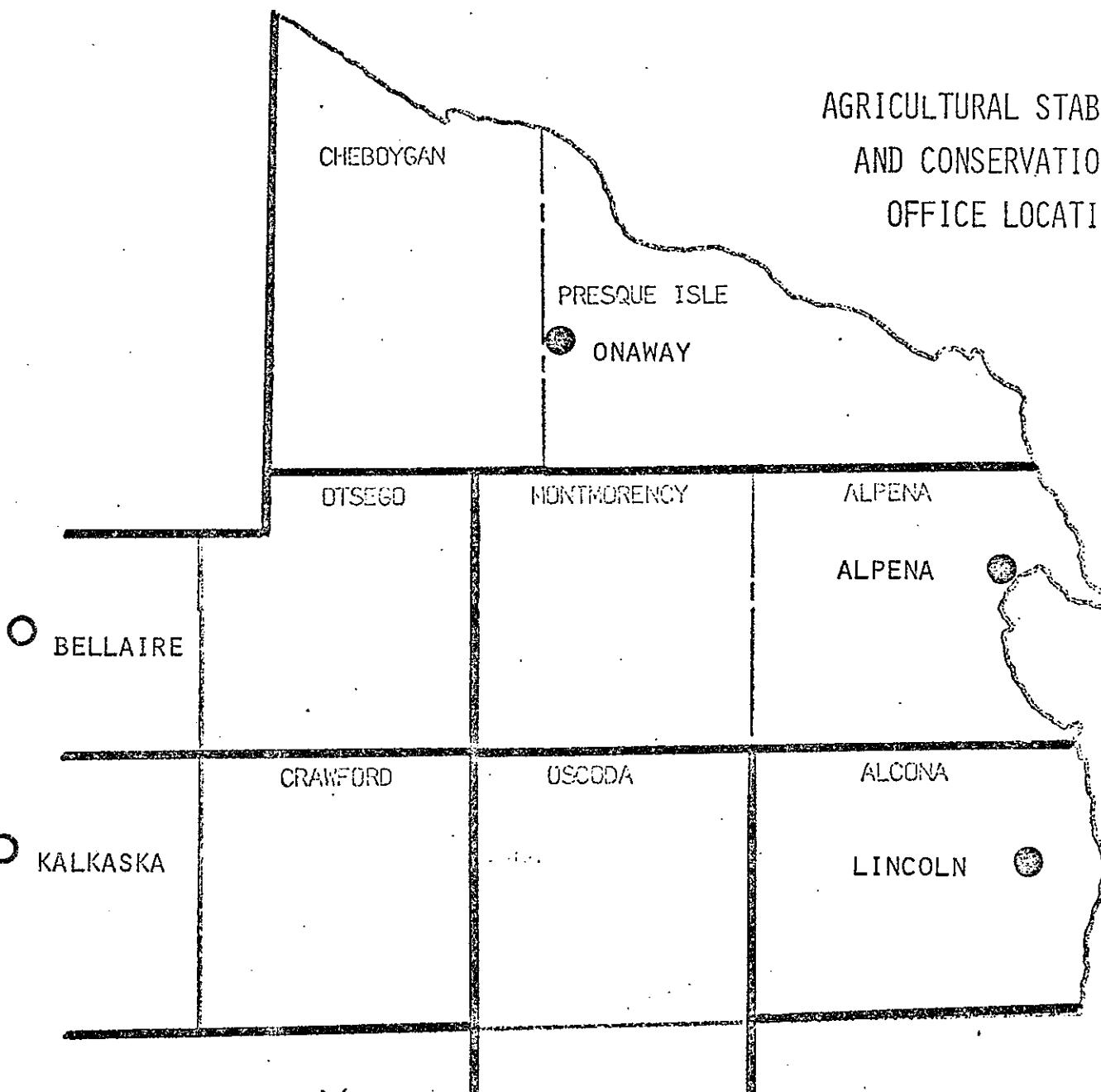
5 0 5 10 15 20 MILES  
SCALE

WEST BRANCH

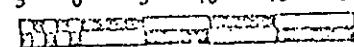


NEMCOG

AGRICULTURAL STABILIZATION  
AND CONSERVATION SERVICE  
OFFICE LOCATIONS

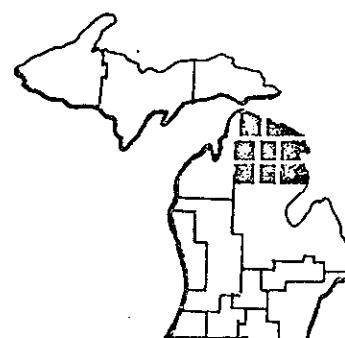


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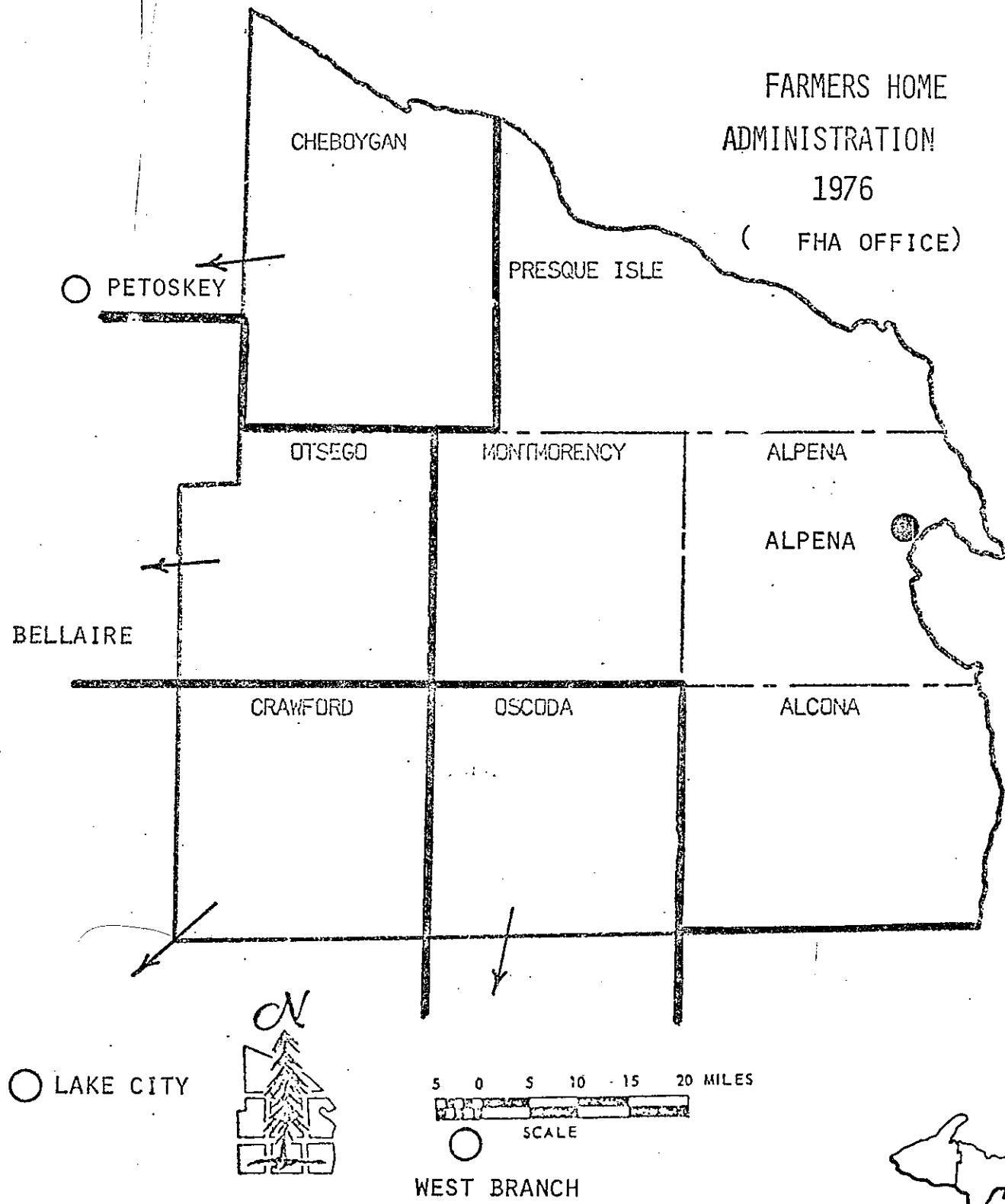
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WEST BRANCH



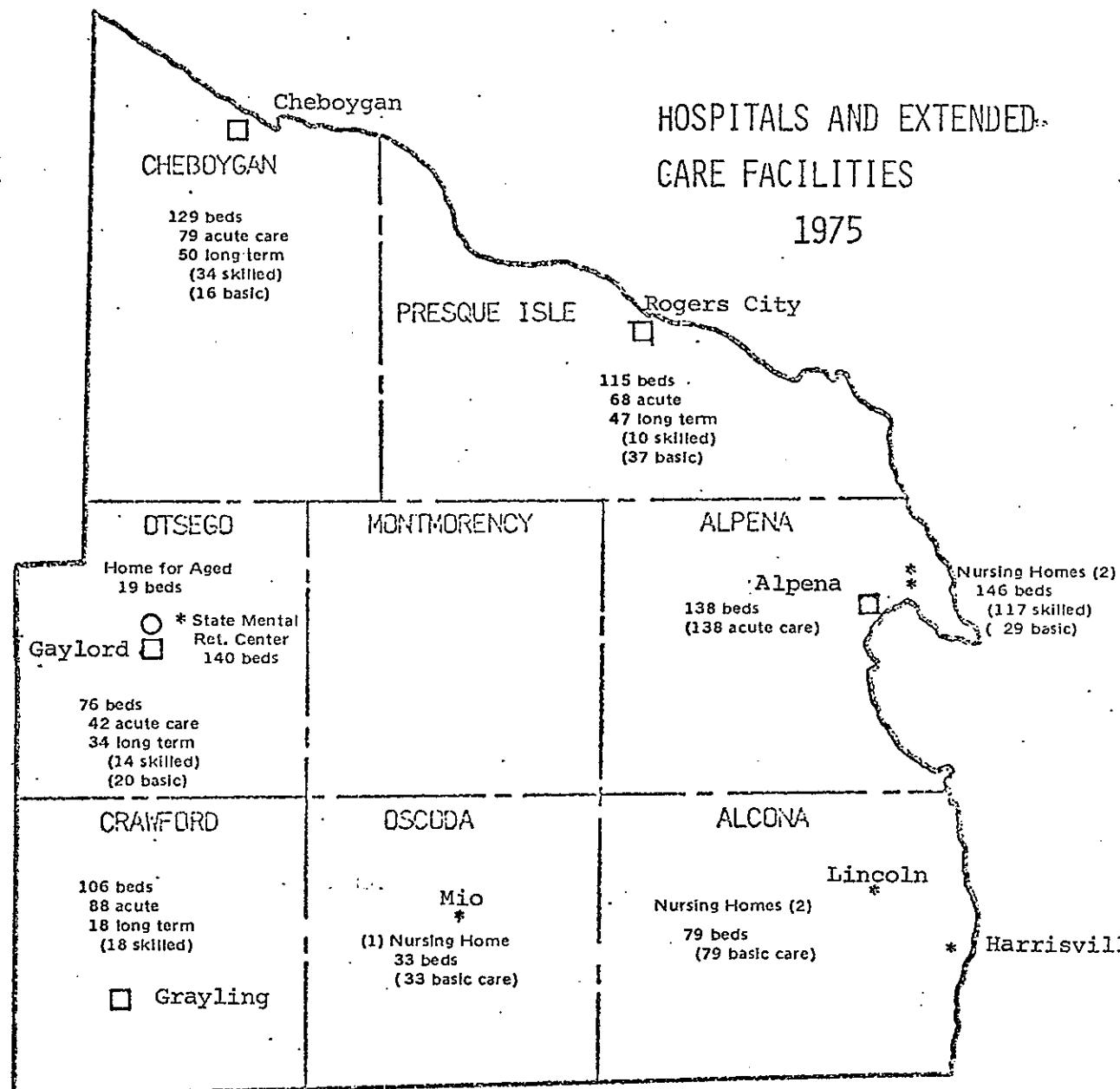
NEMCOG

FARMERS HOME  
ADMINISTRATION  
1976  
( FHA OFFICE)

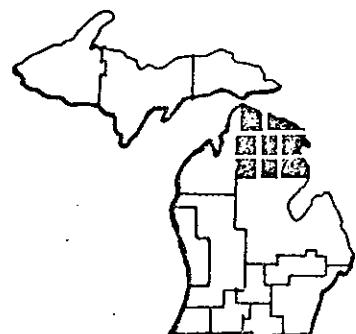


HOSPITALS AND EXTENDED  
CARE FACILITIES

1975

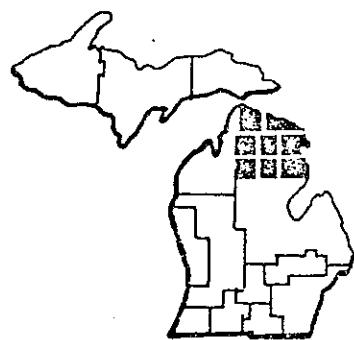
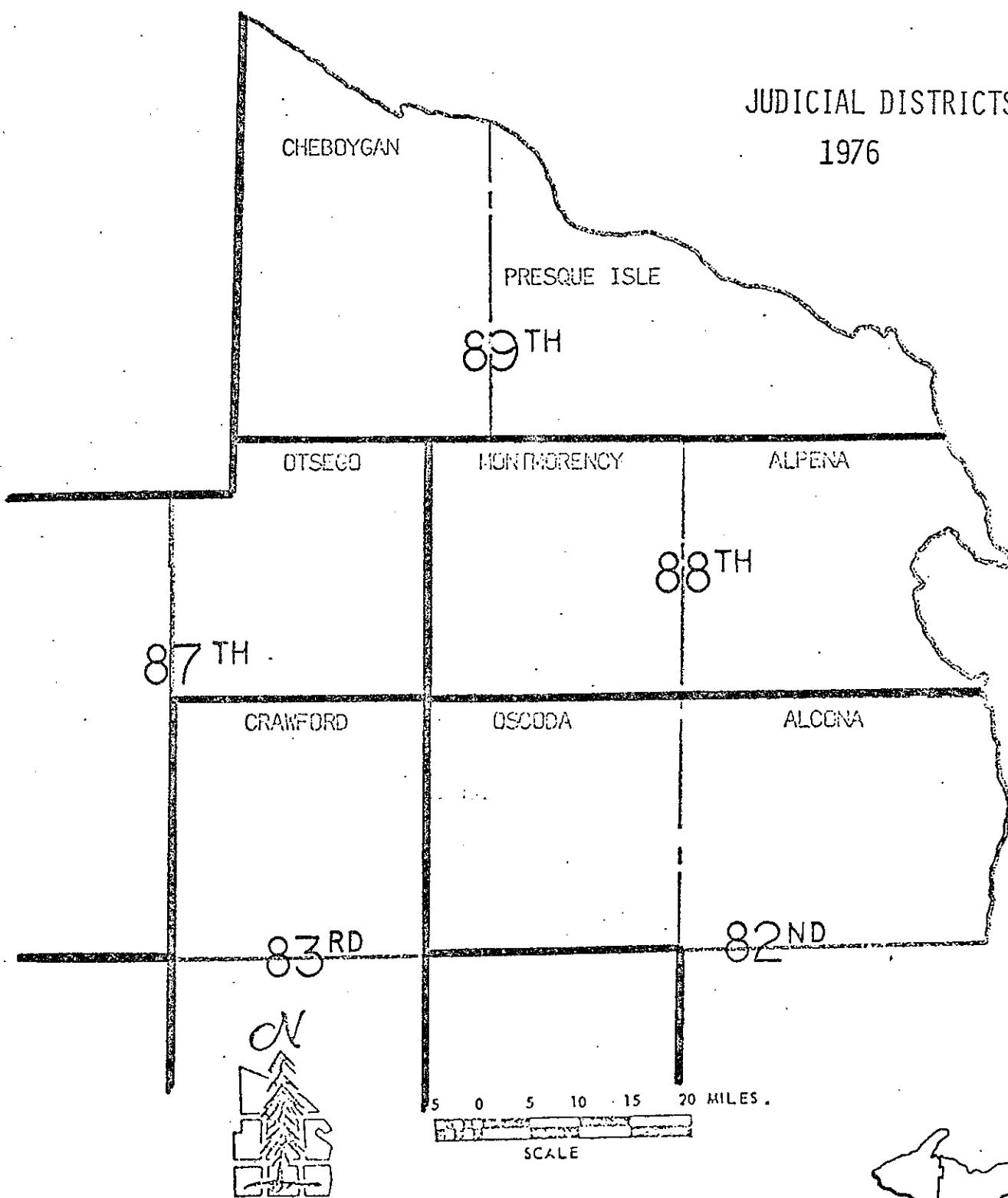


5 0 5 10 15 20 MILES  
SCALE



NEMCOG

JUDICIAL DISTRICTS  
1976



NEMCOG

JUDICIAL CIRCUITS

CHEBOYGAN

PRESQUE ISLE

26<sup>TH</sup>

OTSEGO

MONTMORENCY

ALPENA

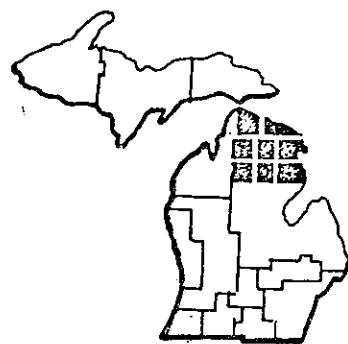
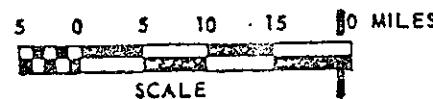
46<sup>TH</sup>

CRAWFORD

OSCODA

ALCONA

23<sup>RD</sup>



NEMCOG

JUDICIAL DISTRICTS  
COURT OF APPEALS  
1975

CHEBOYGAN

PRESQUE ISLE

OTSEGO

MONTMORENCY

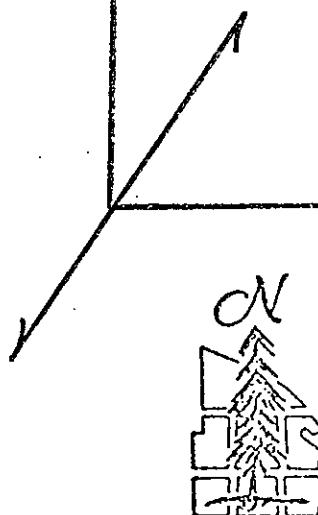
ALPENA

CRAWFORD

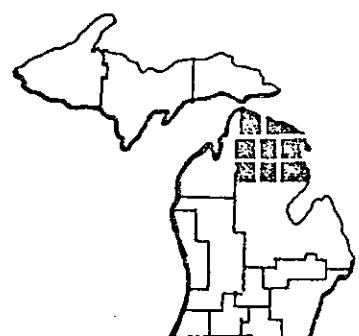
OSCODA

ALCONA

3 RD DISTRICT

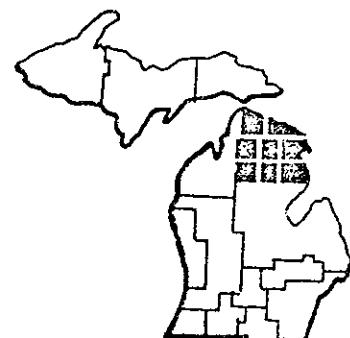
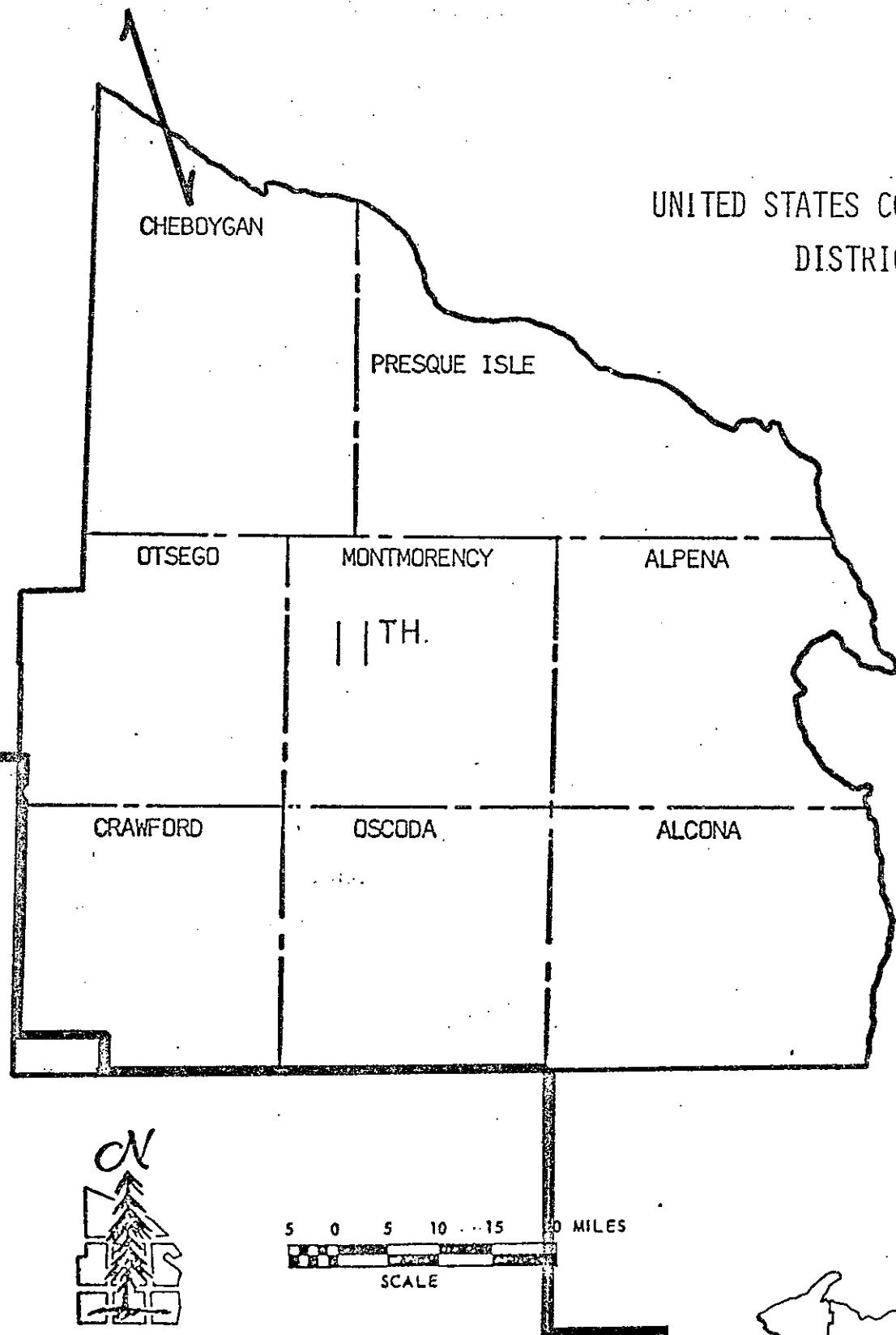


5 0 5 10 15 20 MILES  
SCALE



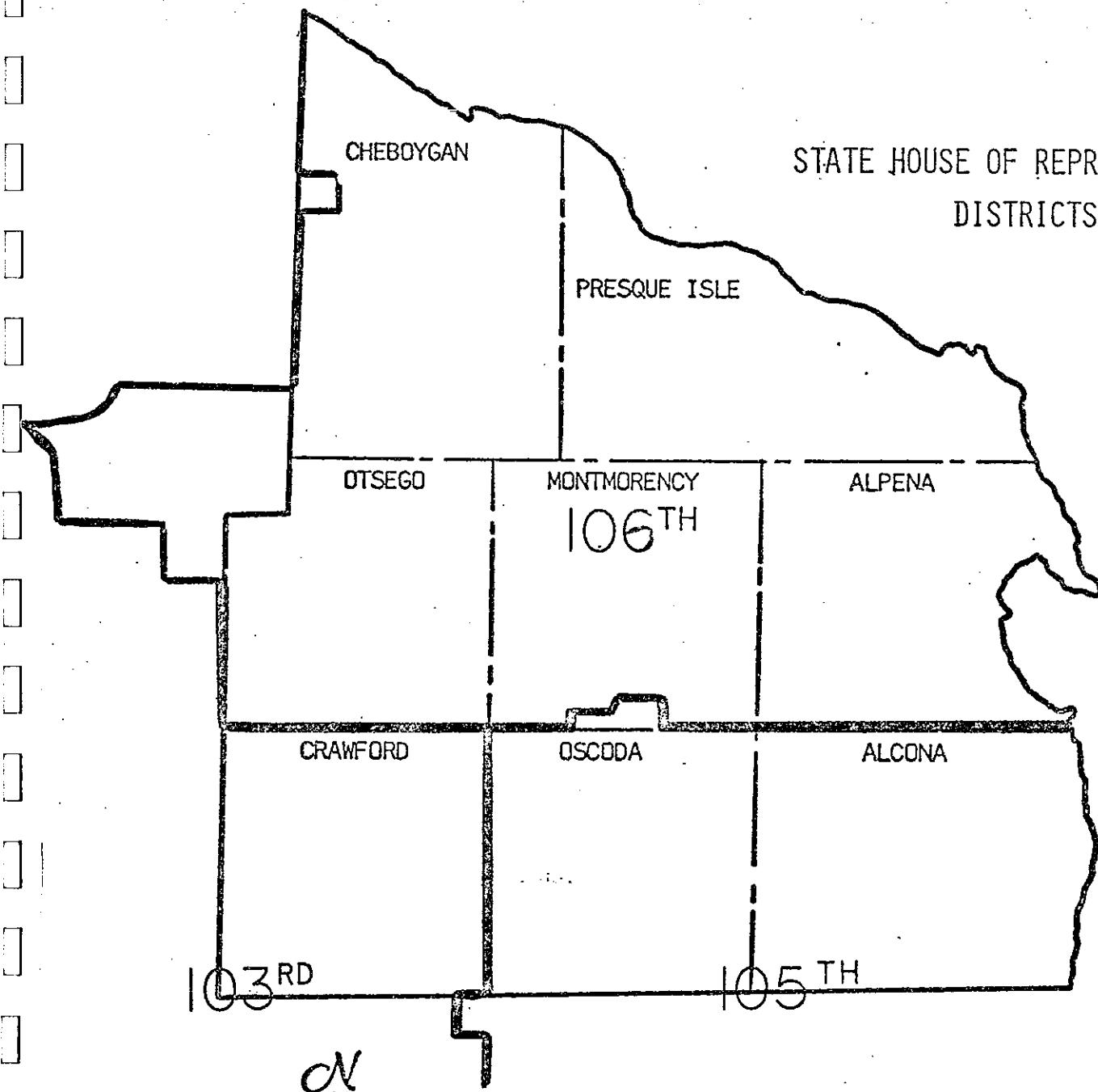
NEMCOG

UNITED STATES CONGRESSIONAL  
DISTRICTS

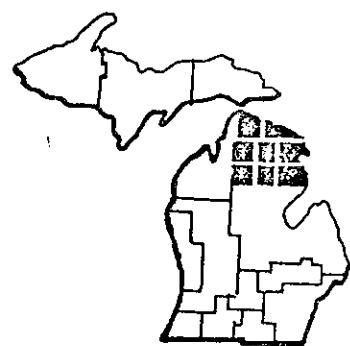
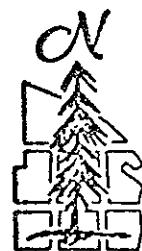


NEMCOG

STATE HOUSE OF REPRESENTATIVE  
DISTRICTS



5 0 5 10 15 20 MILES  
SCALE



NEMCOG

STATE SENATORIAL  
DISTRICTS

CHEBOYGAN

PRESQUE ISLE

OTSEGO

MONTMORENCY

ALPENA

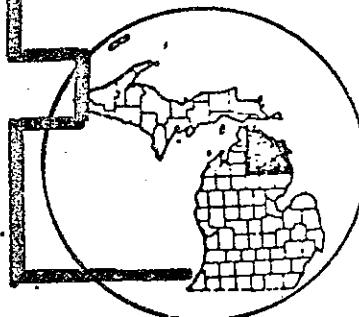
37 T.H

CRAWFORD

OSCODA

ALCONA

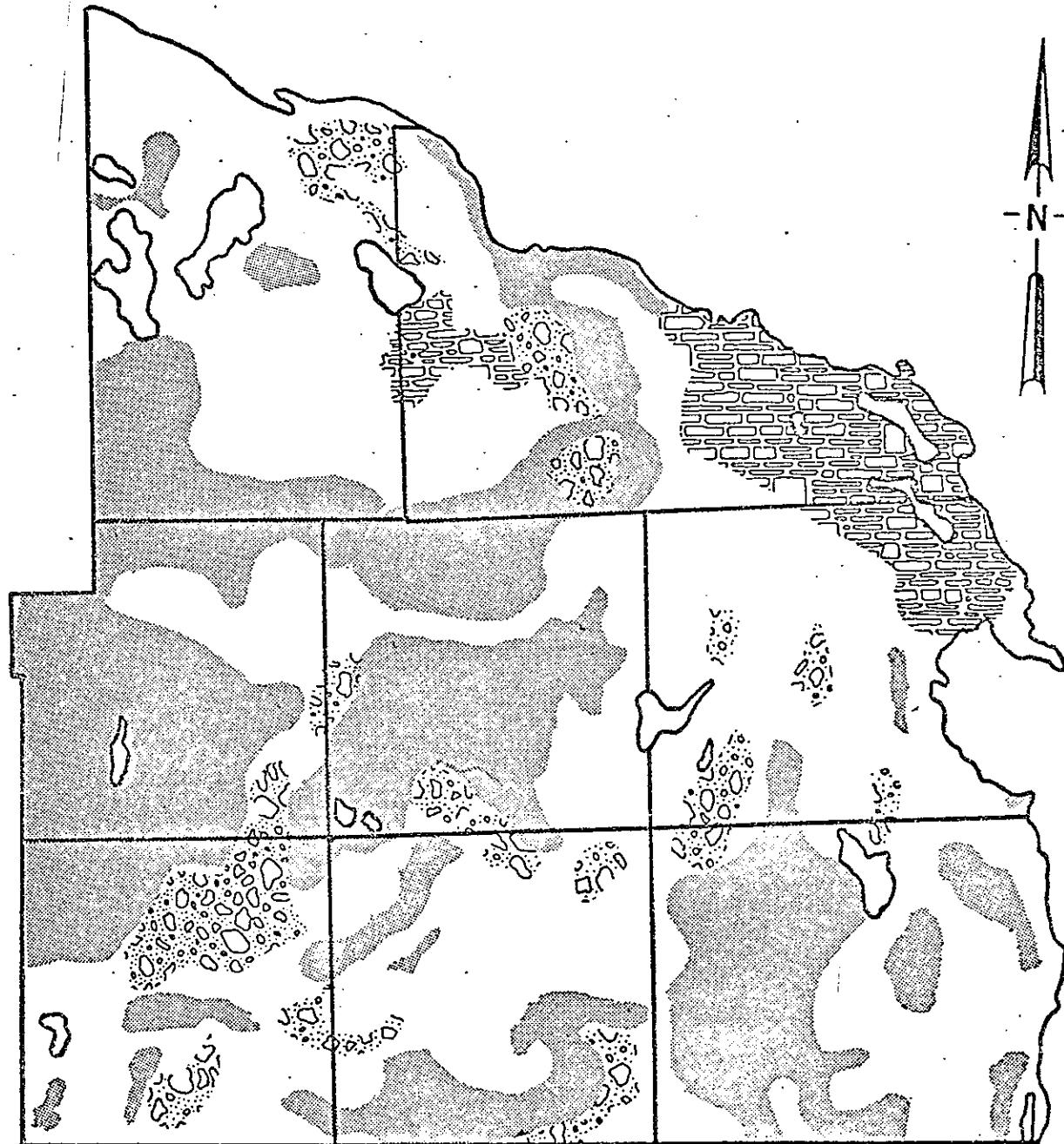
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SCALE



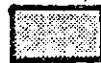
NEMCOG

# **ENVIRONMENT**

GENERAL LOCATION OF MINERAL DEPOSITS  
IN NORTHEAST MICHIGAN



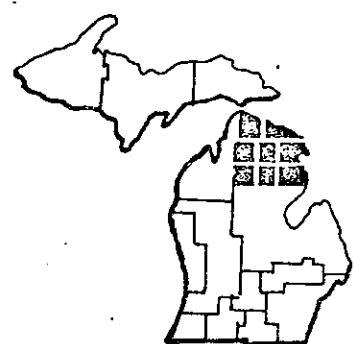
SAND

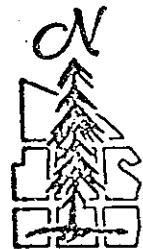
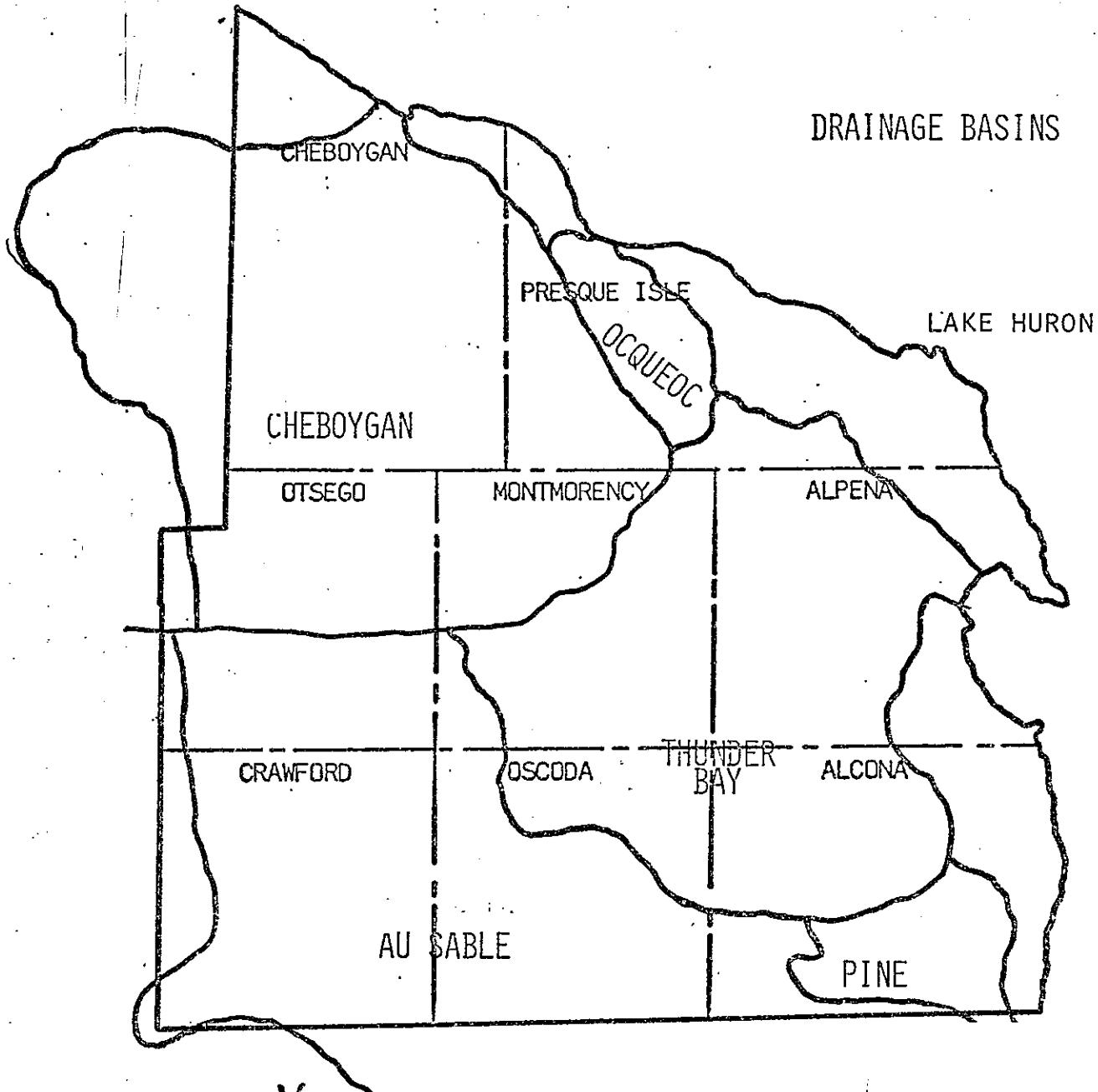


GRAVEL

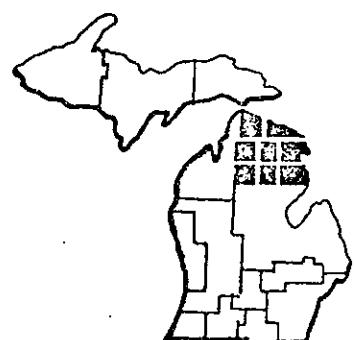


LIMESTONE



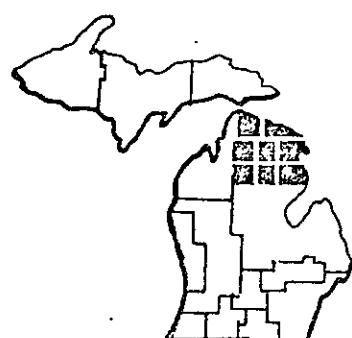
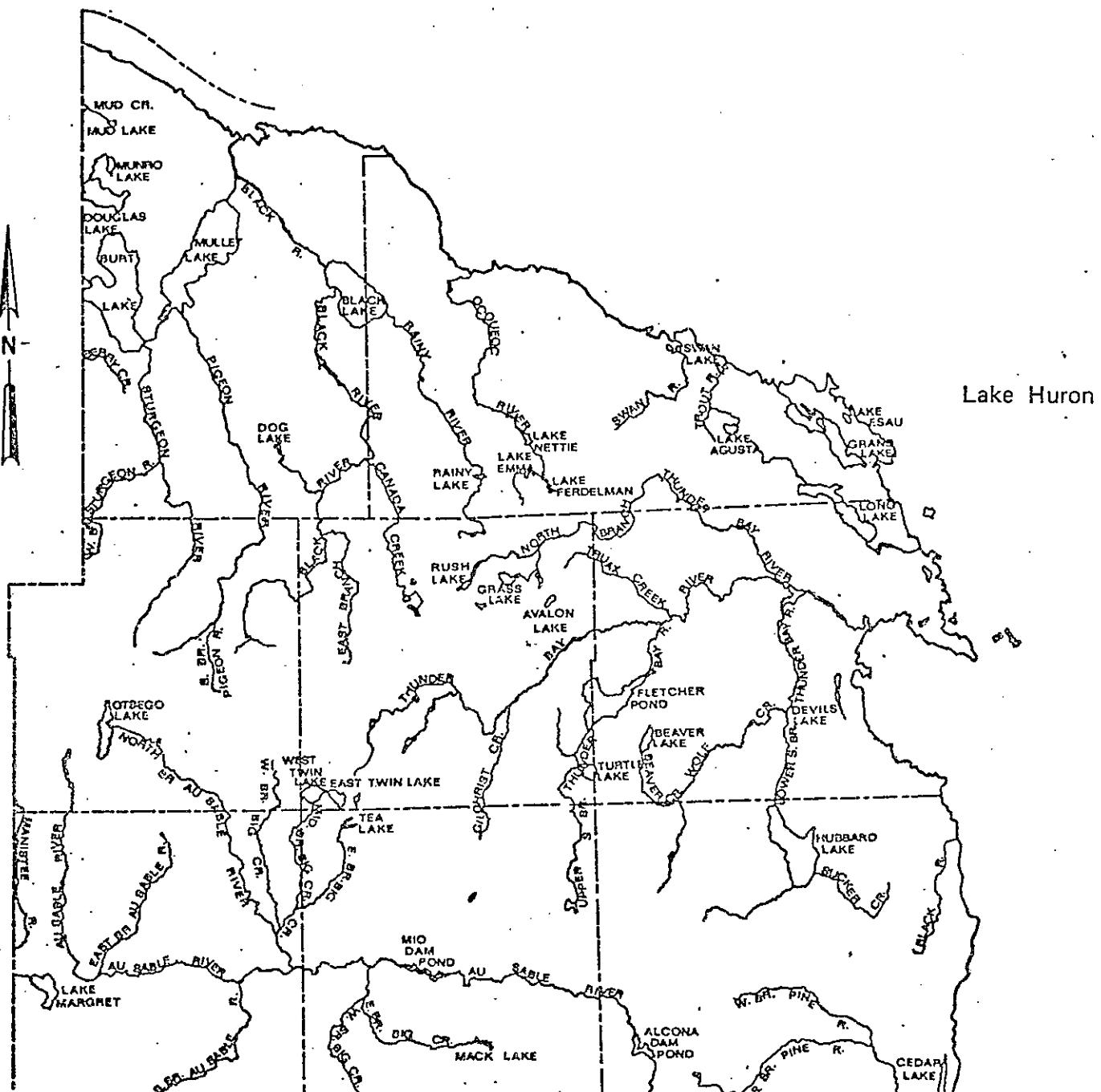


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NEMCOG

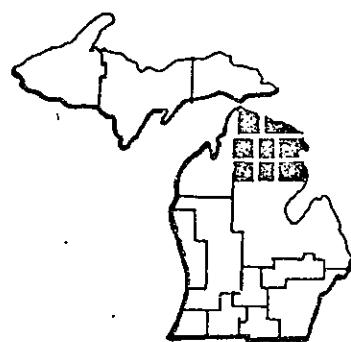
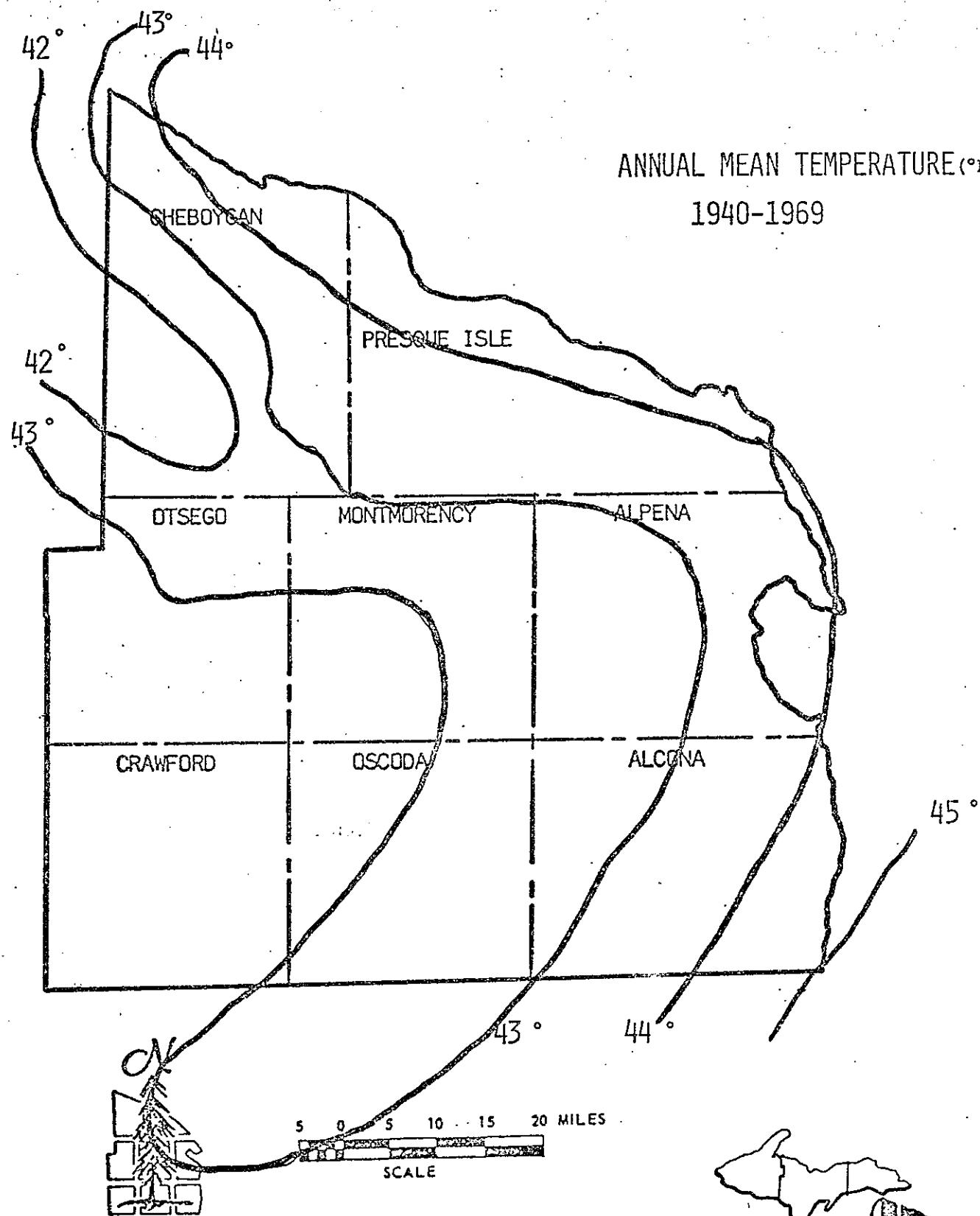
## REGIONAL LAKES AND STREAMS



NEMCOG

ANNUAL MEAN TEMPERATURE (°F)

1940-1969

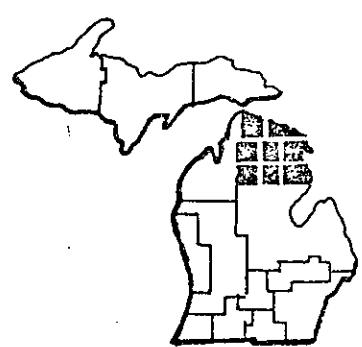
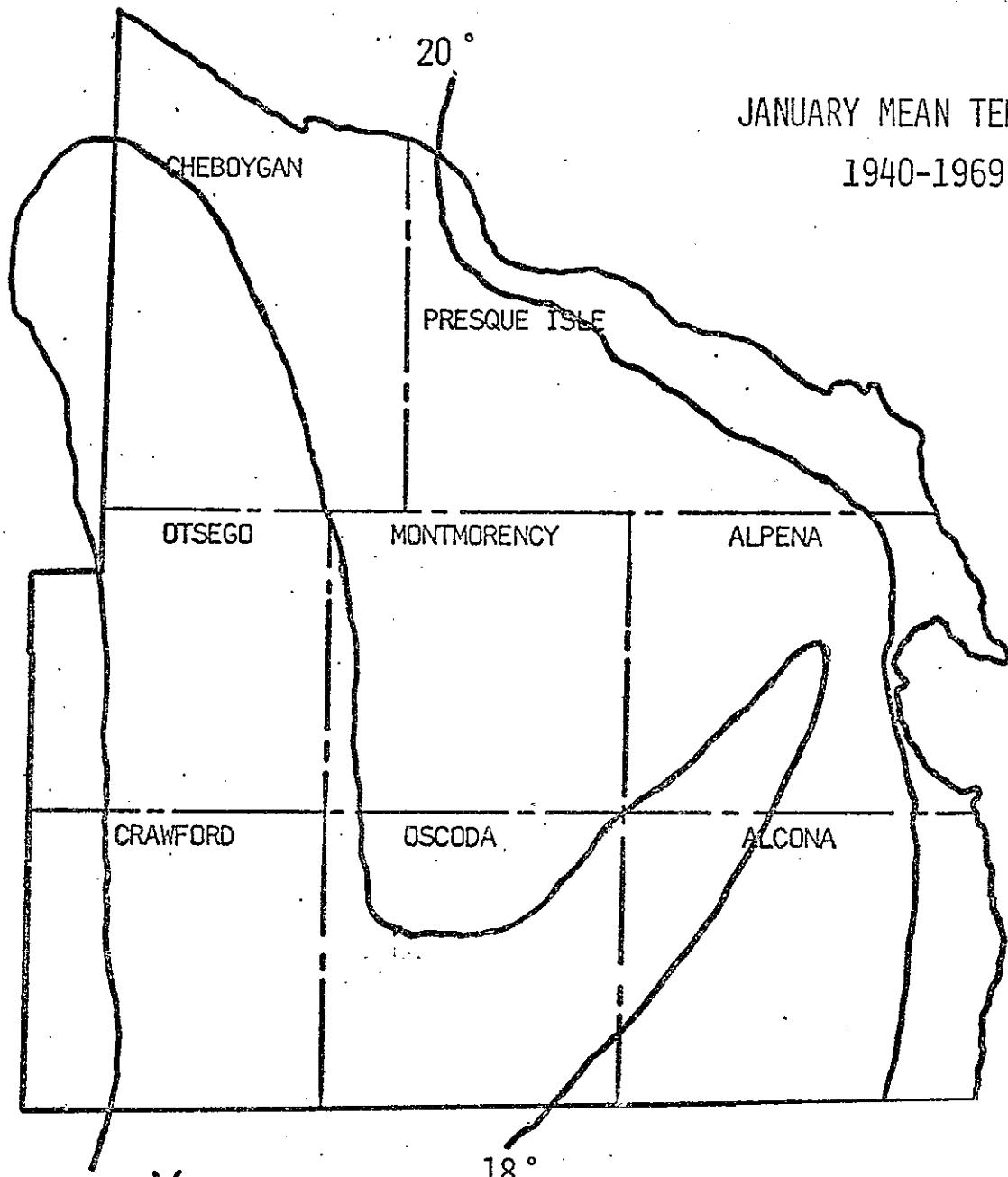


NEMCOG

JANUARY MEAN TEMPERATURE

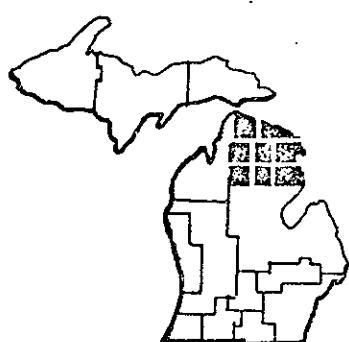
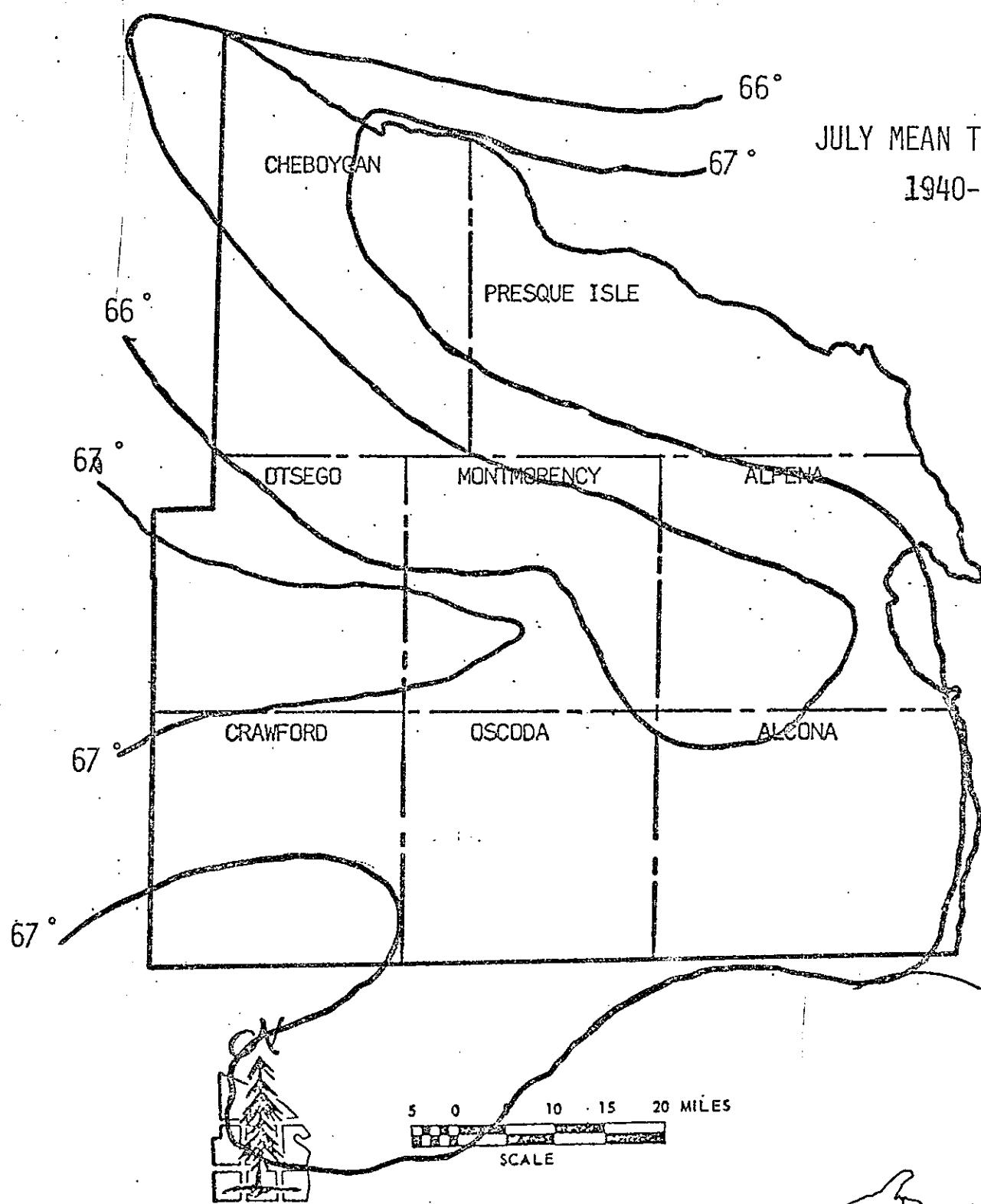
1940-1969

(°F)



NEMCOG

JULY MEAN TEMPERATURE  
1940-1969 (°F)

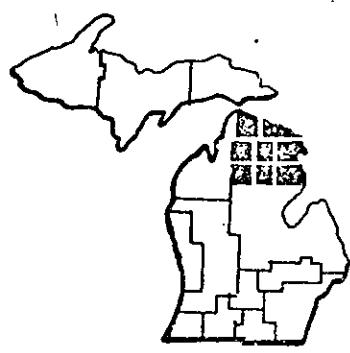
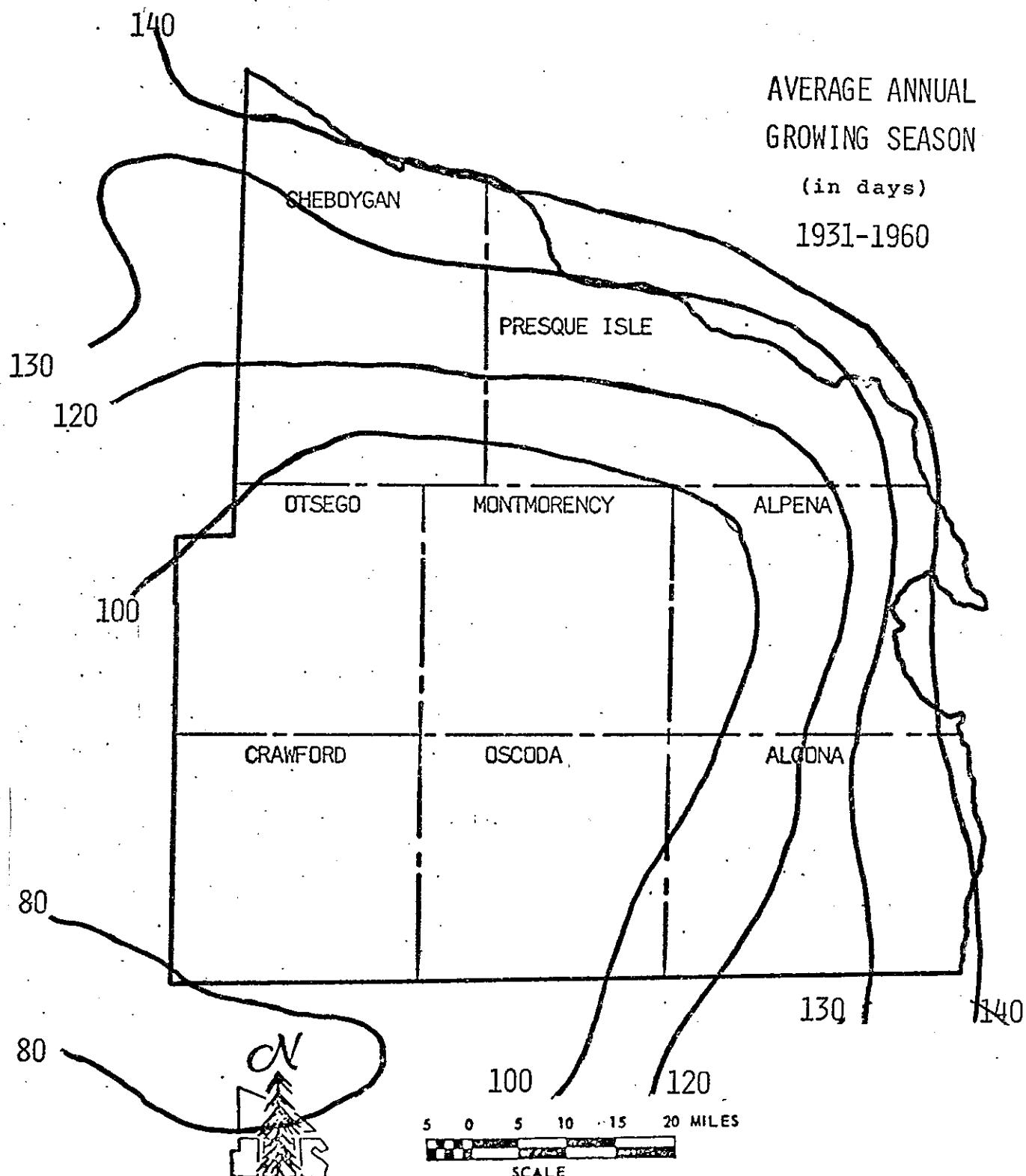


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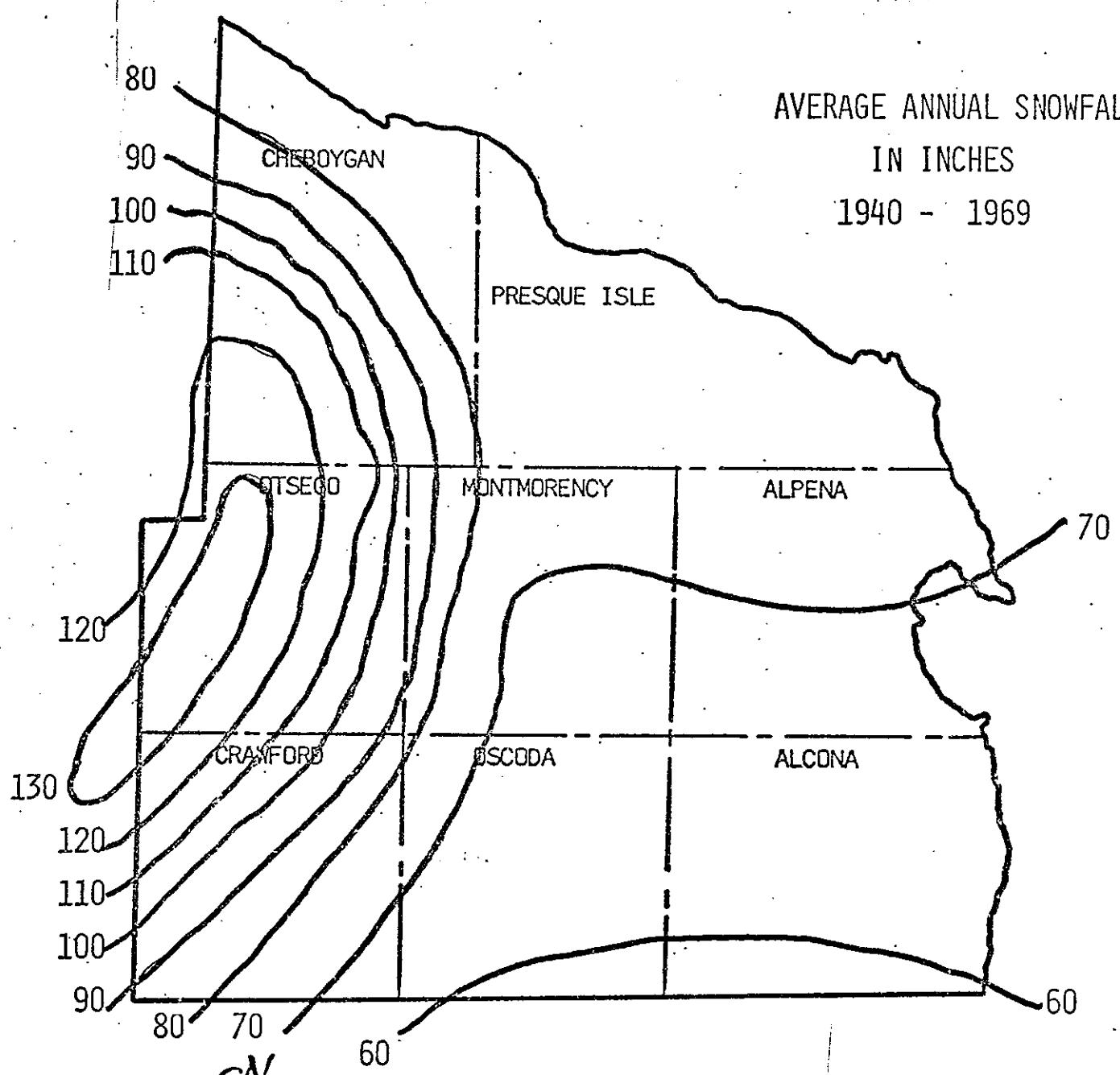
AVERAGE ANNUAL  
GROWING SEASON

(in days)

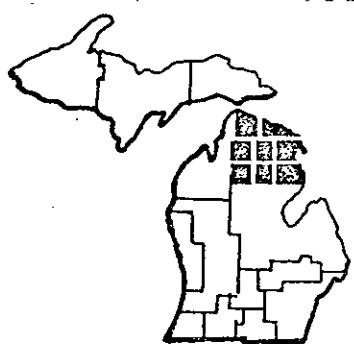
1931-1960



AVERAGE ANNUAL SNOWFALL  
IN INCHES  
1940 - 1969

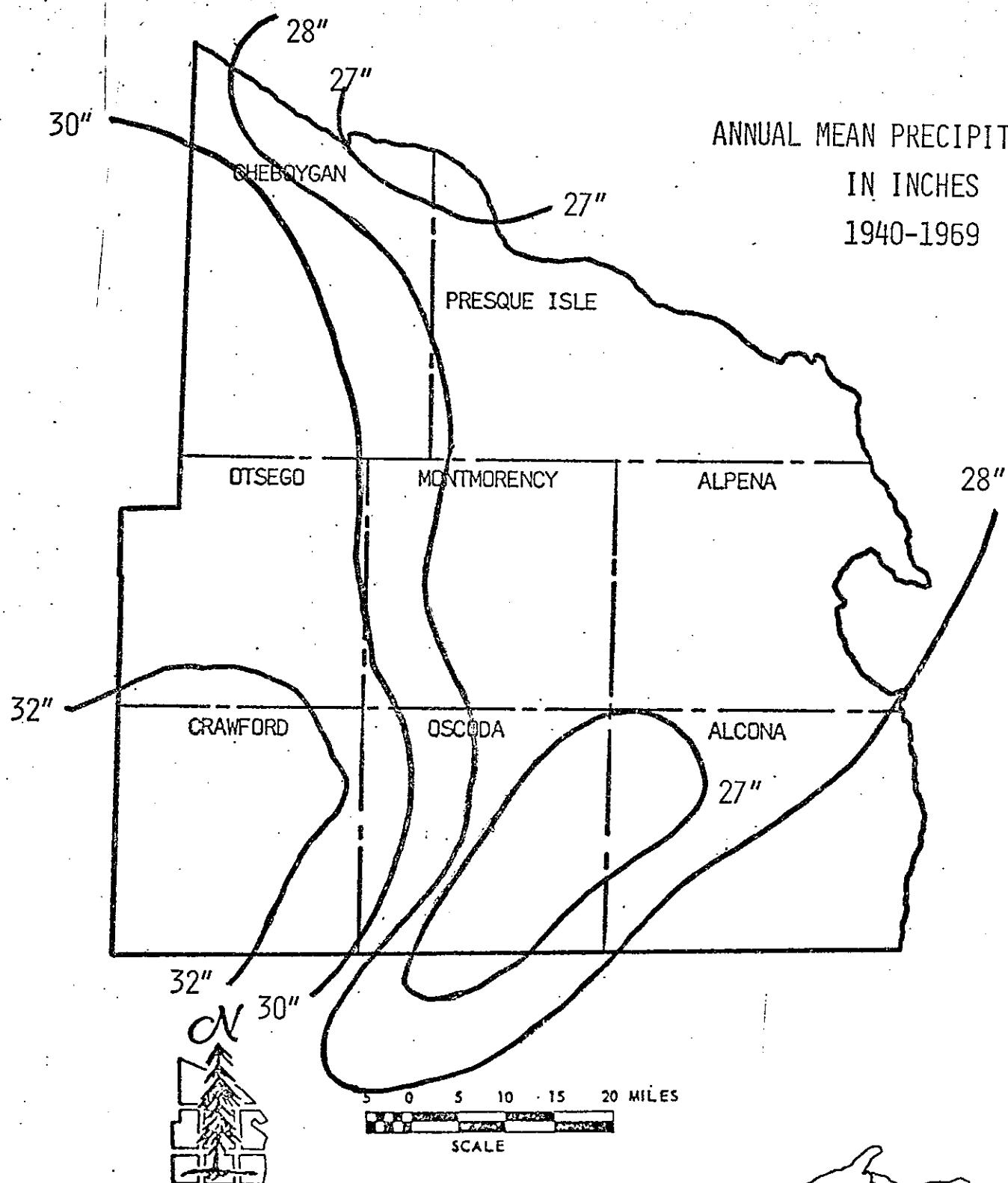


5 0 5 10 15 20 MILES  
SCALE



NEMCOG

ANNUAL MEAN PRECIPITATION  
IN INCHES  
1940-1969



NEMCOG