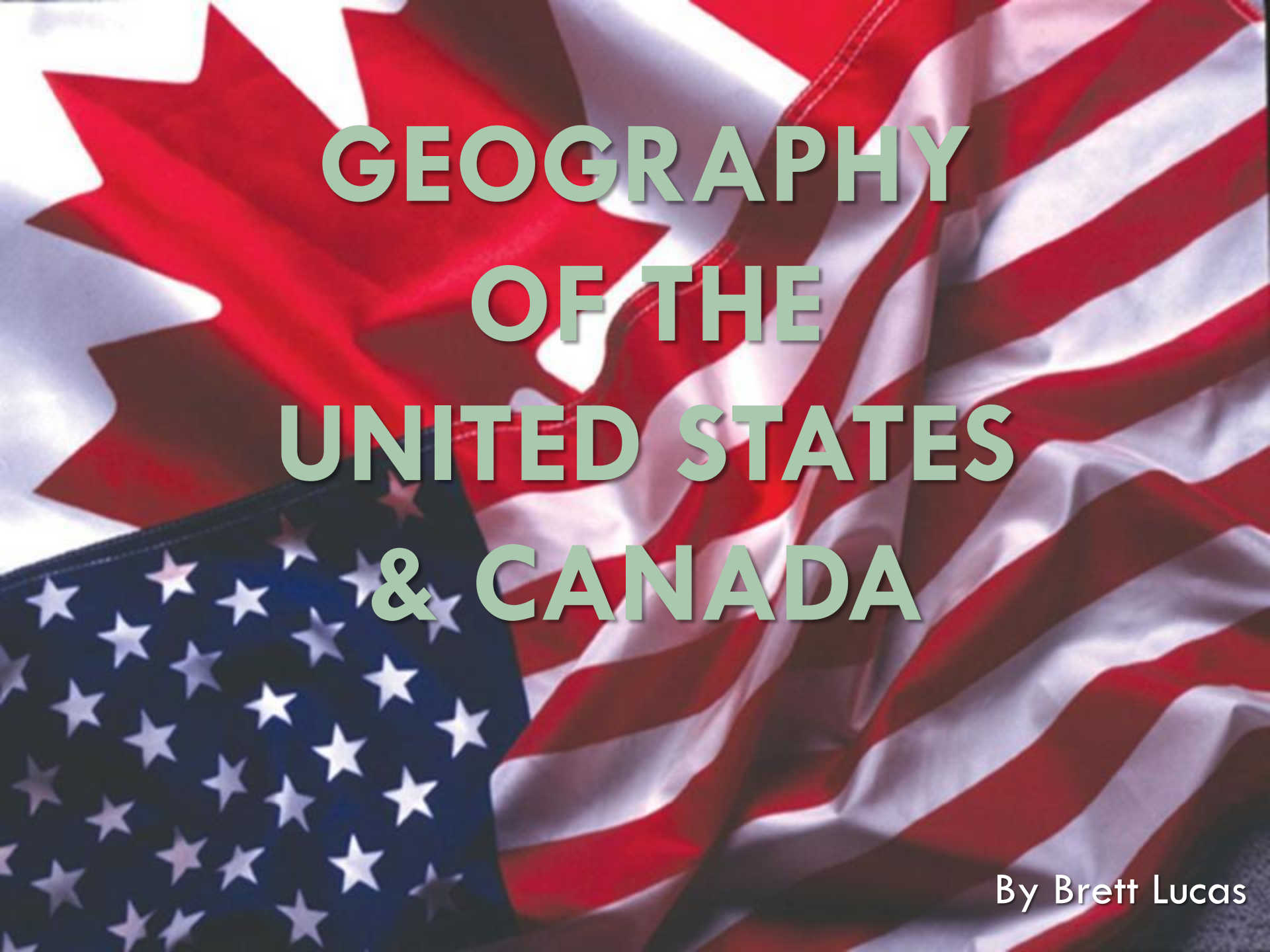


GEOGRAPHY OF THE UNITED STATES & CANADA

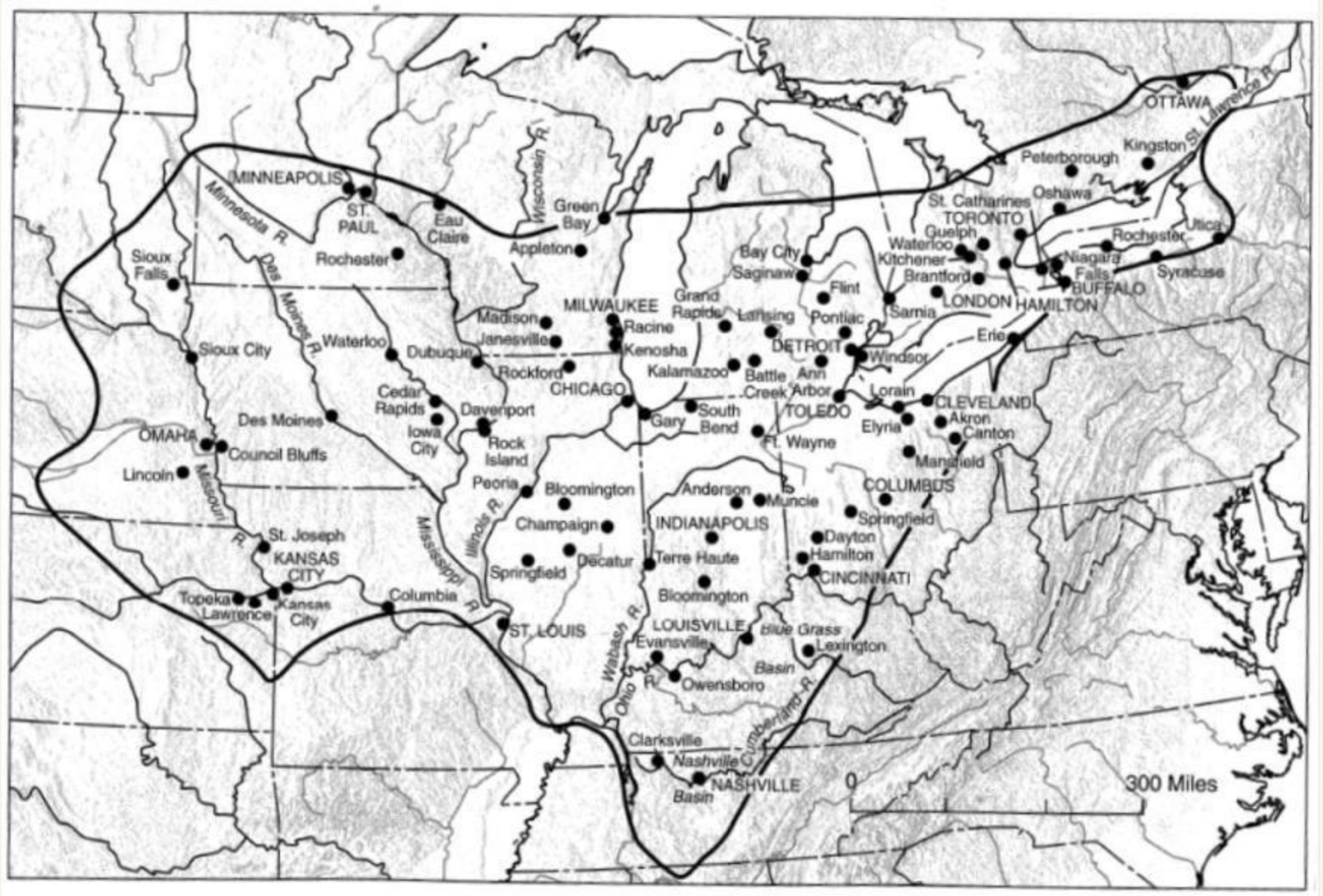
By Brett Lucas

THE HEARTLAND REGION

REGIONS OF
THE UNITED STATES
AND CANADA
6 The Atlantic NortheastRegion
7 French Canada
8 Megalopolis
9 The Appalachians and the Ozarks
10 The Inland South
11 The Southeastern Coast
12 The Heartland region
13 The Great Plains and Prairies
14 The Rocky Mountains
15 The Intermontane West
16 The California Region
17 The Hawaiian Islands
18 The North Pacific Coast
19 The Boreal Forest
20 The Arctic

Setting the Boundaries

- What states and provinces are part of the region?
  - Parts of SD, NE, KS, MN, WI, MI, Ontario, NY, KY, TN, and MO. All of IA, IL, IN, and most of OH
- What regions does it border?
  - Great Plains, Inland South, and Appalachians / Ozarks, Boreal Forest, French Canada, Atlantic Northeast


MINNEAPOLIS
ST. PAUL
Eau Claire
Green Bay
Appleton
Rochester
Sioux Falls
Sioux City
Waterloo
Dubuque
Madison
Janesville
MILWAUKEE
Racine
Kenosha
Rockford
CHICAGO
Cedar Rapids
Davenport
Iowa City
Rock Island
Des Moines
OMAHA
Council Bluffs
Lincoln
Peoria
Bloomington
Champaign
Springfield
Decatur
St. Joseph
KANSAS CITY
Topeka
Lawrence
Kansas City
Columbia
ST. LOUIS
Terre Haute
INDIANAPOLIS
Anderson
Muncie
Bay City
Saginaw
Flint
Grand Rapids
Lansing
Pontiac
DETROIT
Kalamazoo
Battle Creek
Ann Arbor
Gary
South Bend
TOLEDO
Ft. Wayne
Bloomington
LOUISVILLE
Evansville
Owensboro
Clarksville
Nashville
NASHVILLE
Basin
Blue Grass
Basin
Lexington
Dayton
Hamilton
CINCINNATI
COLUMBUS
Springfield
Mansfield
Elyria
Lorain
CLEVELAND
Akron
Canton
Erie
Windsor
Sarnia
LONDON
Waterloo
Kitchener
Guelph
Brantford
TORONTO
St. Catharines
Oshawa
Peterborough
Kingston
OTTAWA
Rochester
Utica
Syracuse
Niagara Falls
BUFFALO
HAMILTON
St. Lawrence R.
Minnesota R.
Des Moines R.
Missouri R.
Mississippi R.
Illinois R.
Wisconsin R.
Wabash R.
Ohio R.
Cumberland R.
0
300 Miles

Overview

- Relatively flat area
- Most populated region
- Generally culturally homogeneous: “average” North American
- Agricultural and industrial core areas

The Region

Minnesota
Sault Ste. Marie
North Bay
Minneapolis
Wisconsin
Green Bay
Appleton
Barrie
Rochester
Michigan
Kitchener
Toront
Milwaukee
Flint
Hamilton
Madison
Grand Rapids
Buffalo
Cedar Rapids
Detroit
Iowa
Chicago
Toledo
Cleveland
Des Moines
Omaha
Davenport
Canton
Illinois
Indiana
Ohio
Indianapolis
Columbus
Kansas City
Florissant
Cincinnati
Overland Park
St Louis
West Virginia
Missouri
Louisville
Kentucky
Virgin
Tulsa
Broken Arrow
Nashville
Greensbo
Tennessee
North Carolina
Arkansas
Chattanooga
Charlotte

Physical Geography

Physical Setting

- Flat to and undulating (rise and fall) landscape.
- Some bluffs.
- Differentiated between glaciated and unglaciated landscapes.
- Glaciers dramatically smoothed landscape, improved soil.

Great Lakes (1)

- Large and small lakes
- Evidence of glaciation.

Till Plains(3,4)

- Flat areas with significant glacial sediment deposits
- More time passed since last glacial retreat, so better drained (fewer lakes)

Unglaciated areas (2,5,6)

- Driftless Area (2)
  - Rough terrain
- Osage Plateau (5)
  - Very flat sedimentary rock
- Interior low plateaus (6)
  - Rolling hills
  - River valleys

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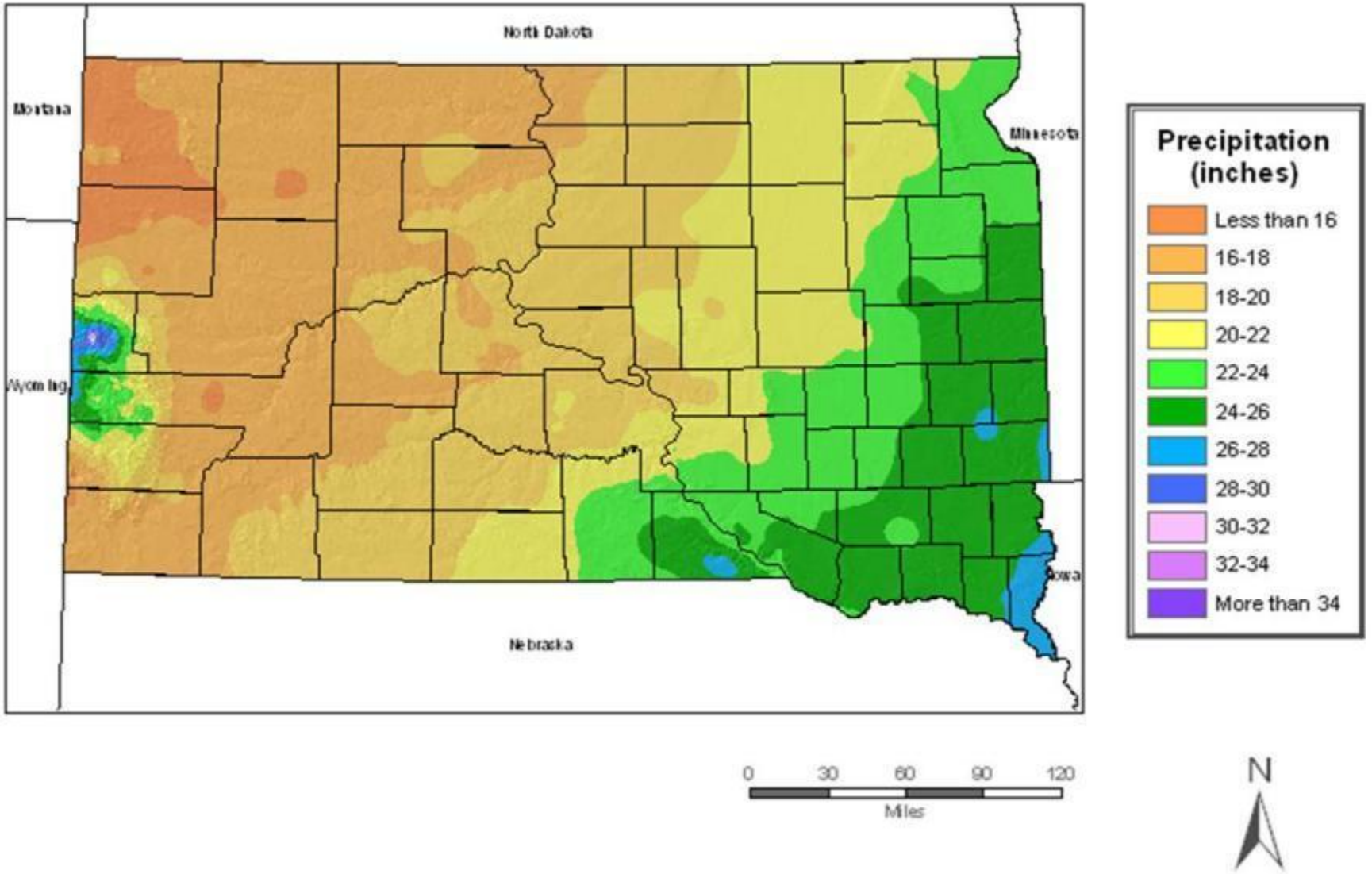
Climate

- Significant seasonal shifts
- Wetter west, drier east
- Snow common, especially north
- Flooding common, especially Mississippi River Valley
- Severe weather, especially in spring

Average Annual Precipitation, 1971-2000
South Dakota



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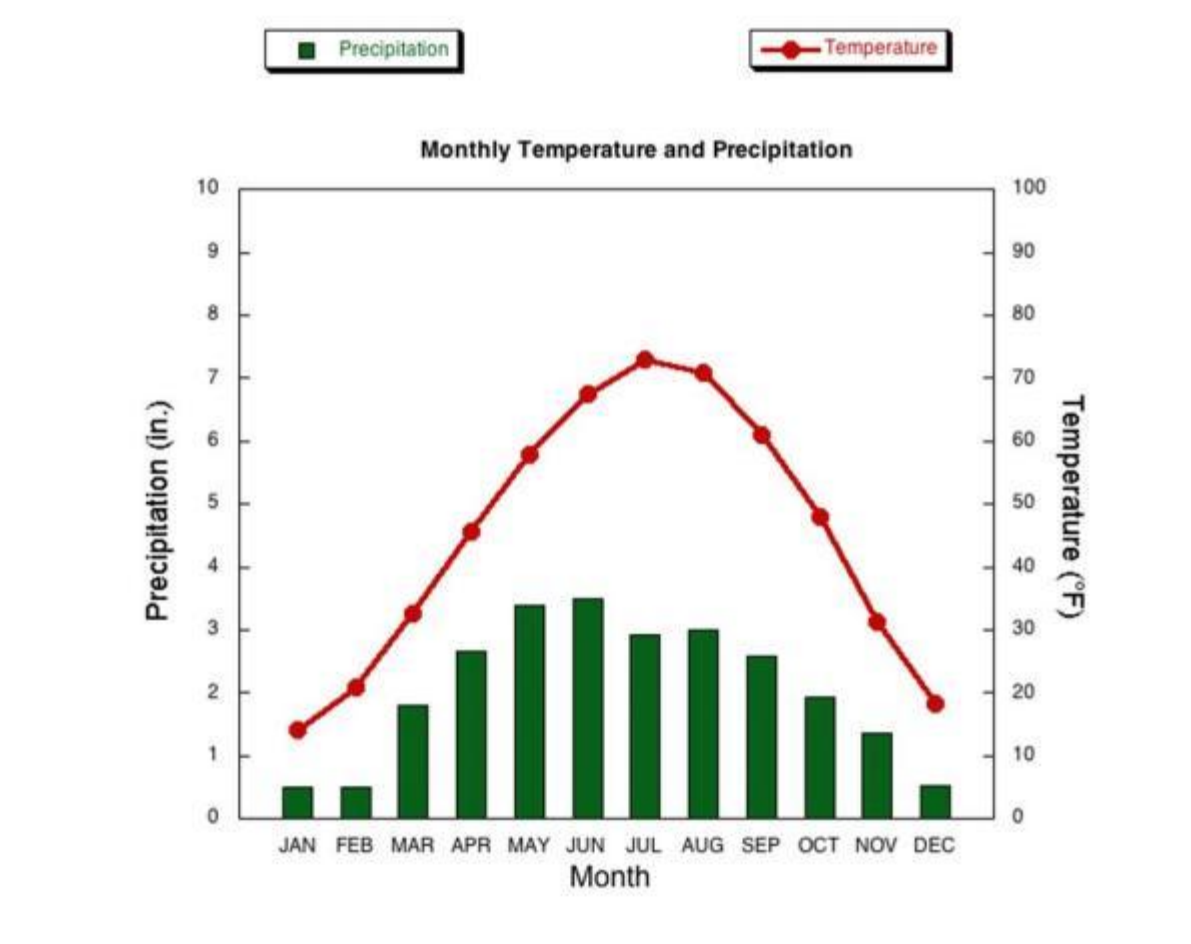
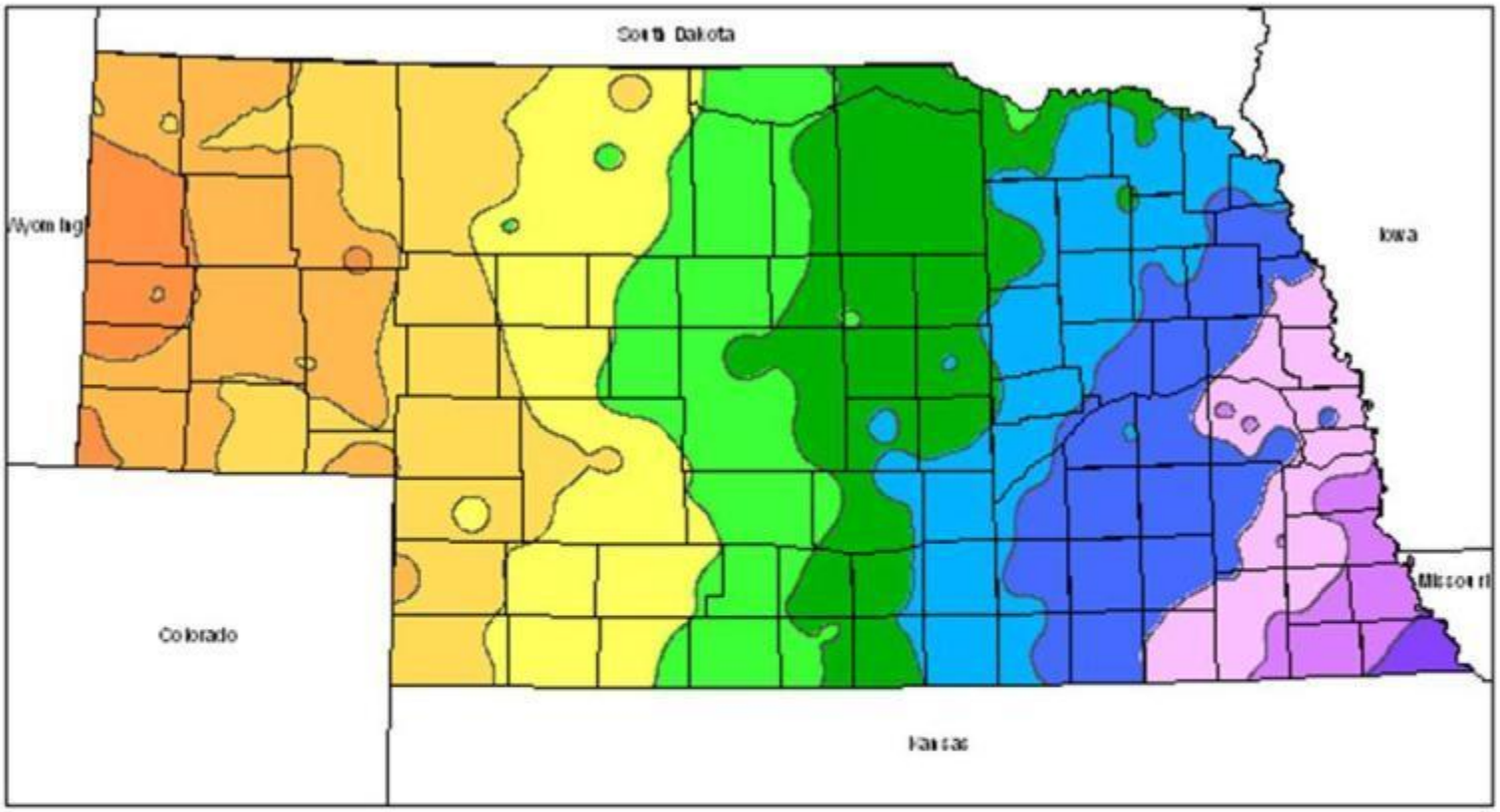
Climograph – Sioux Falls, SD



Average Annual Precipitation, 1971-2000
Nebraska



Precipitation (inches)

Less than 16	20-22	26-28	32-34
16-18	22-24	28-30	More than 34
18-20	24-26	30-32	

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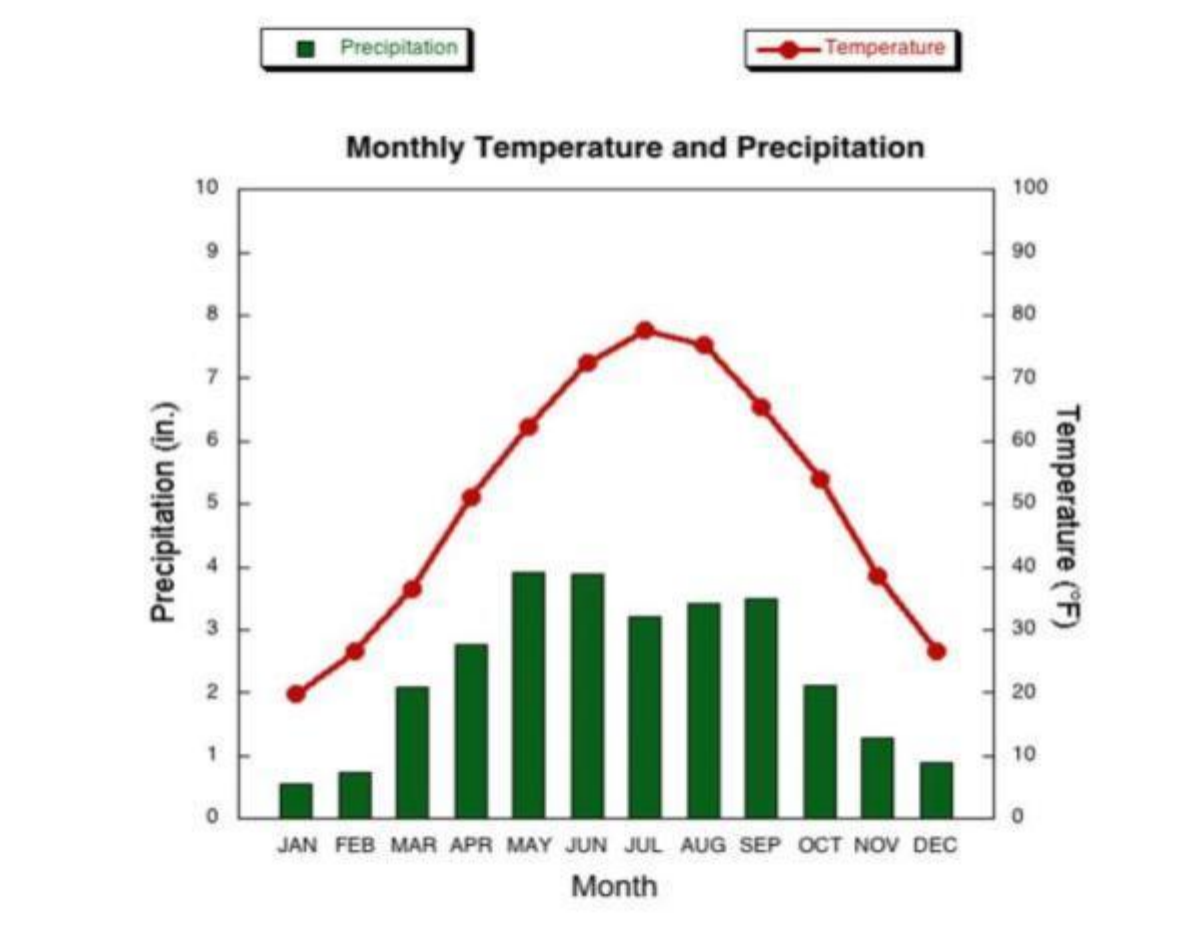
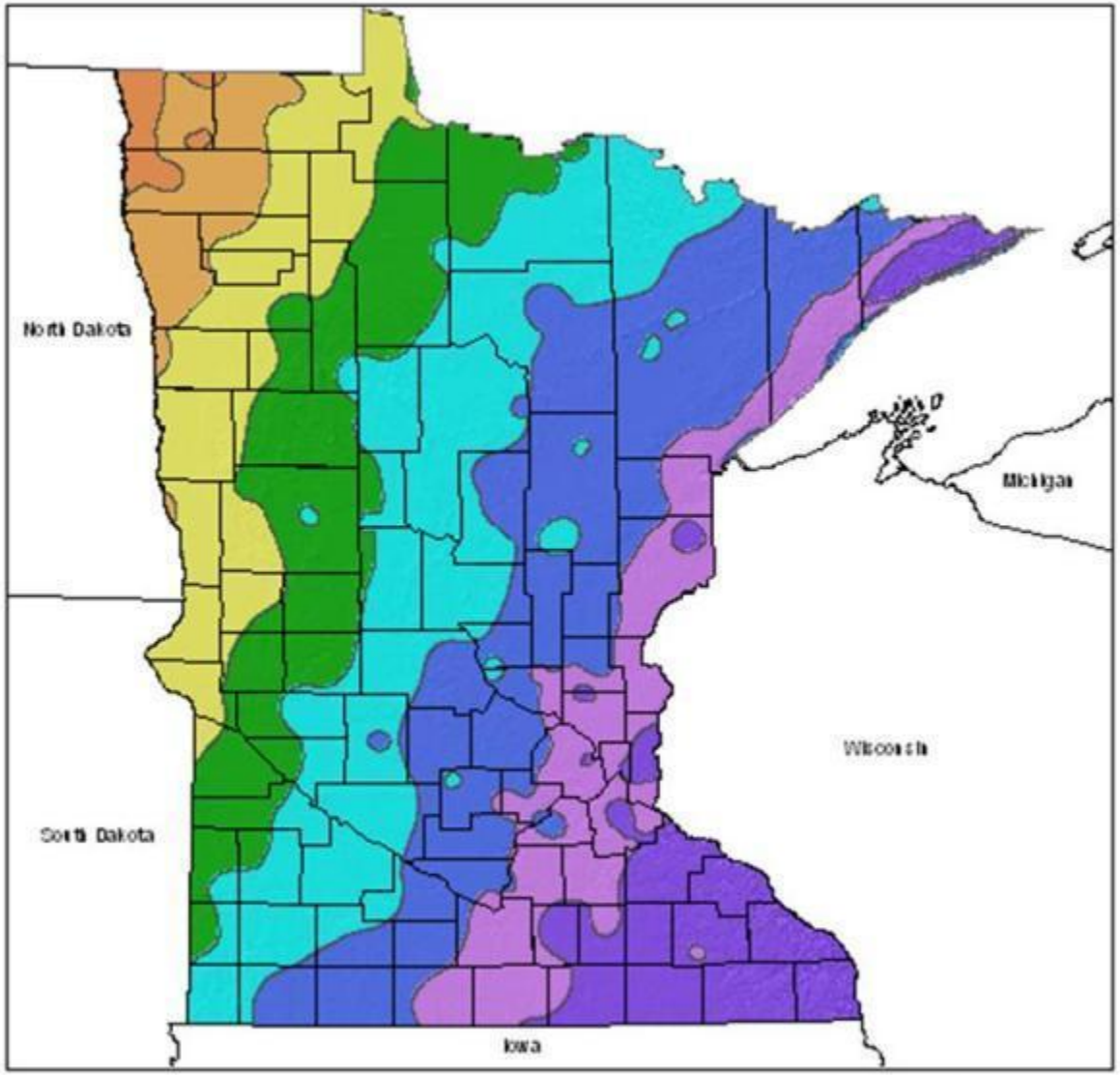
Climograph – Lincoln, NE



Average Annual Precipitation, 1971-2000
Minnesota



Precipitation (inches)

- Less than 20
- 20-22
- 22-24
- 24-26
- 26-28
- 28-30
- 30-32
- More than 32

N

0 25 50 75 100
Miles

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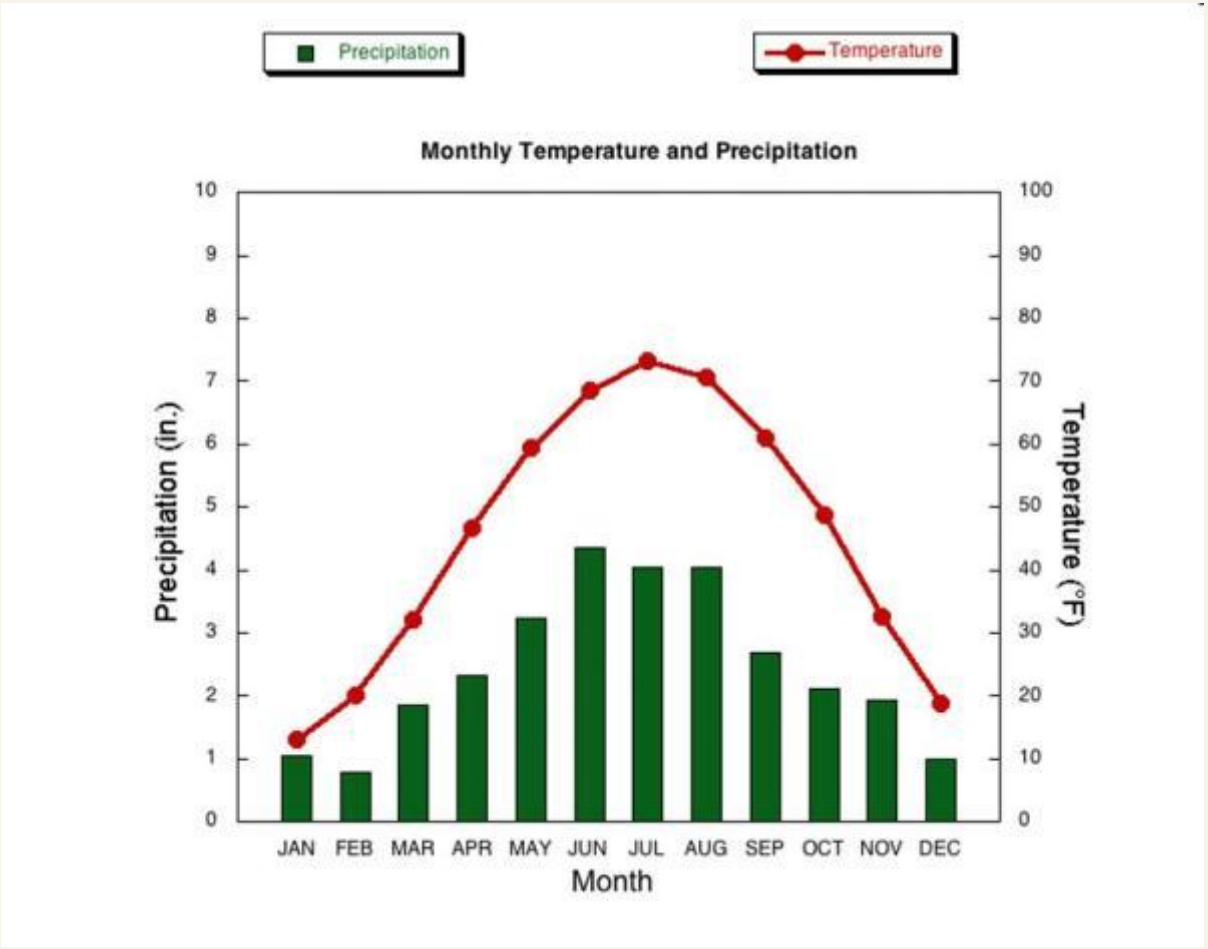
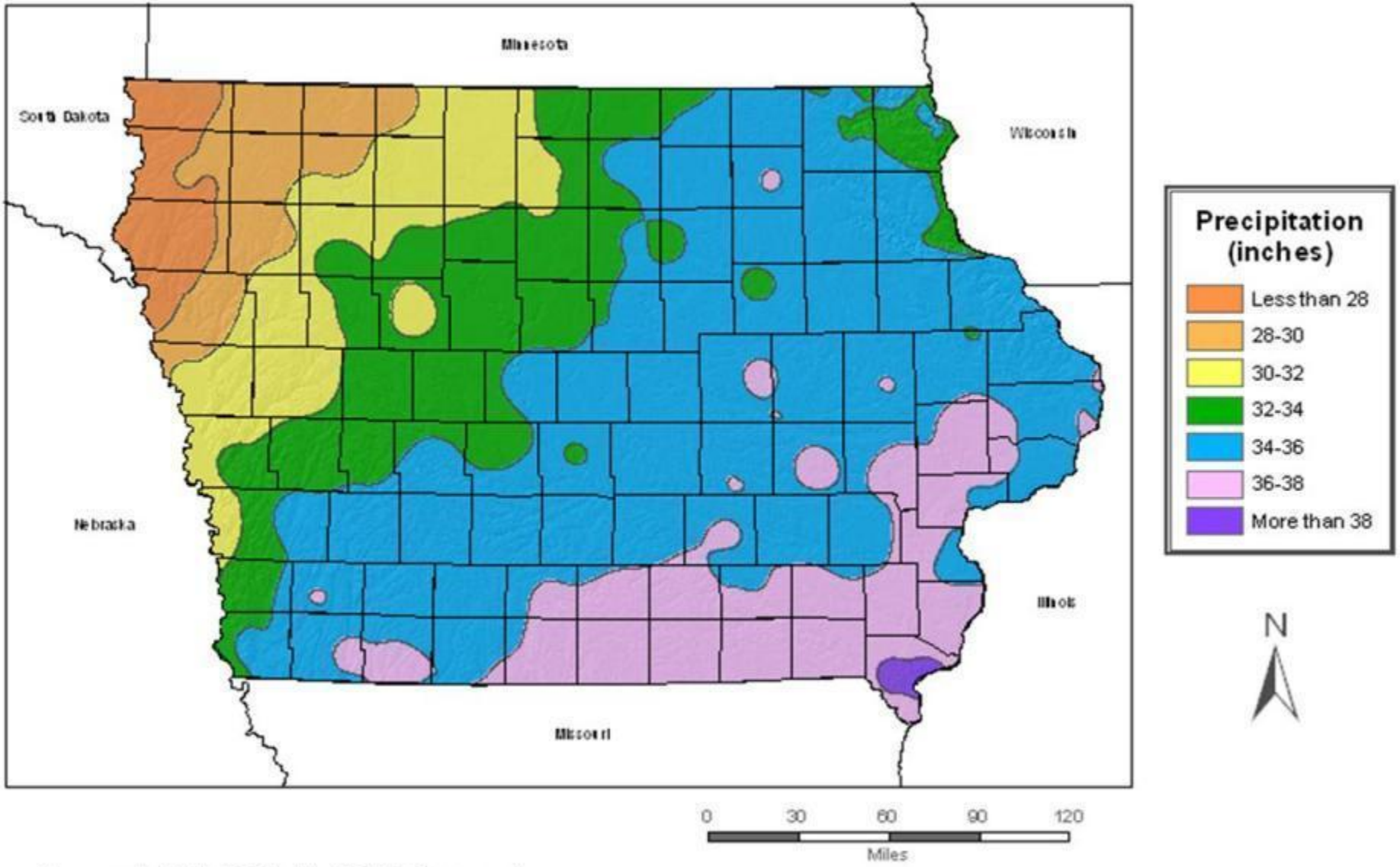
Climograph – Minneapolis, MN



Average Annual Precipitation, 1971-2000
Iowa



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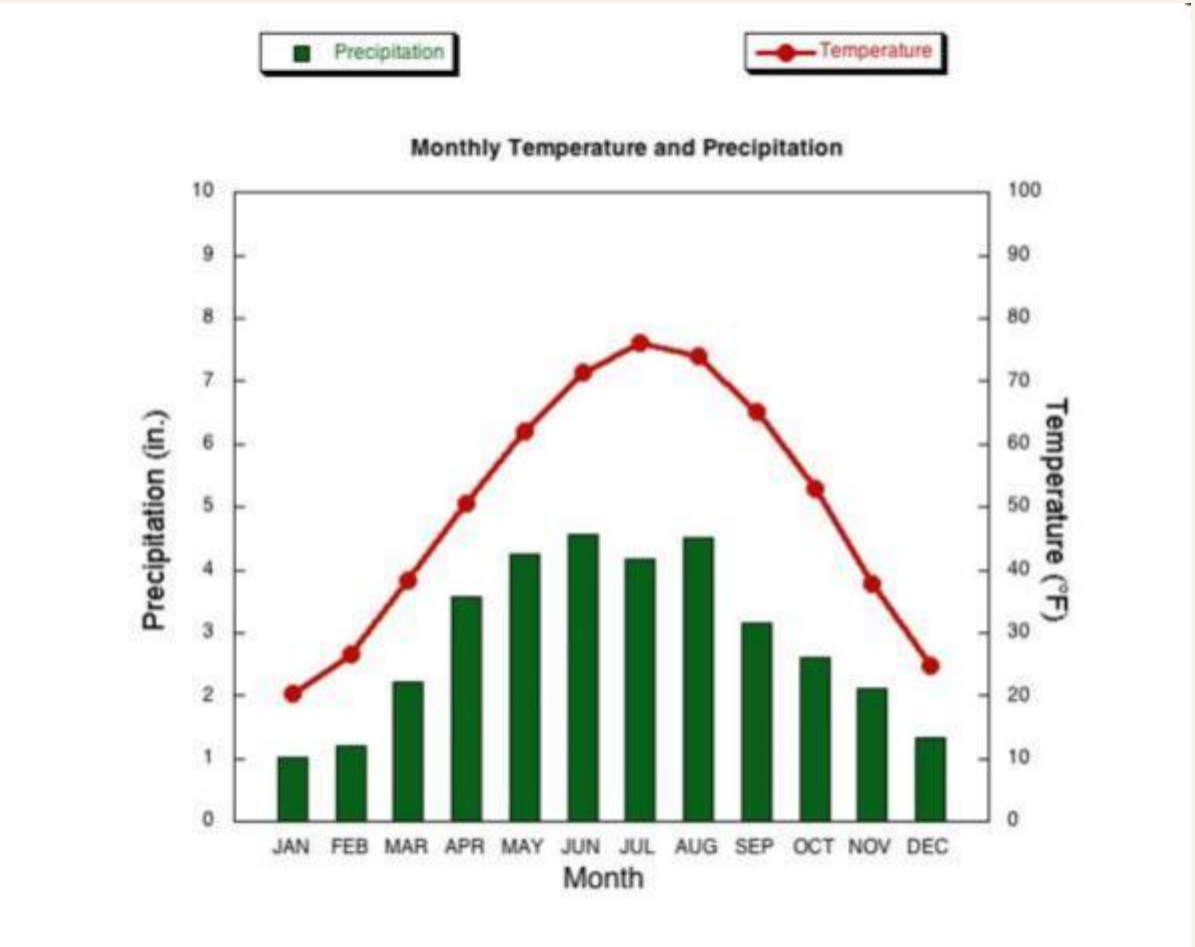
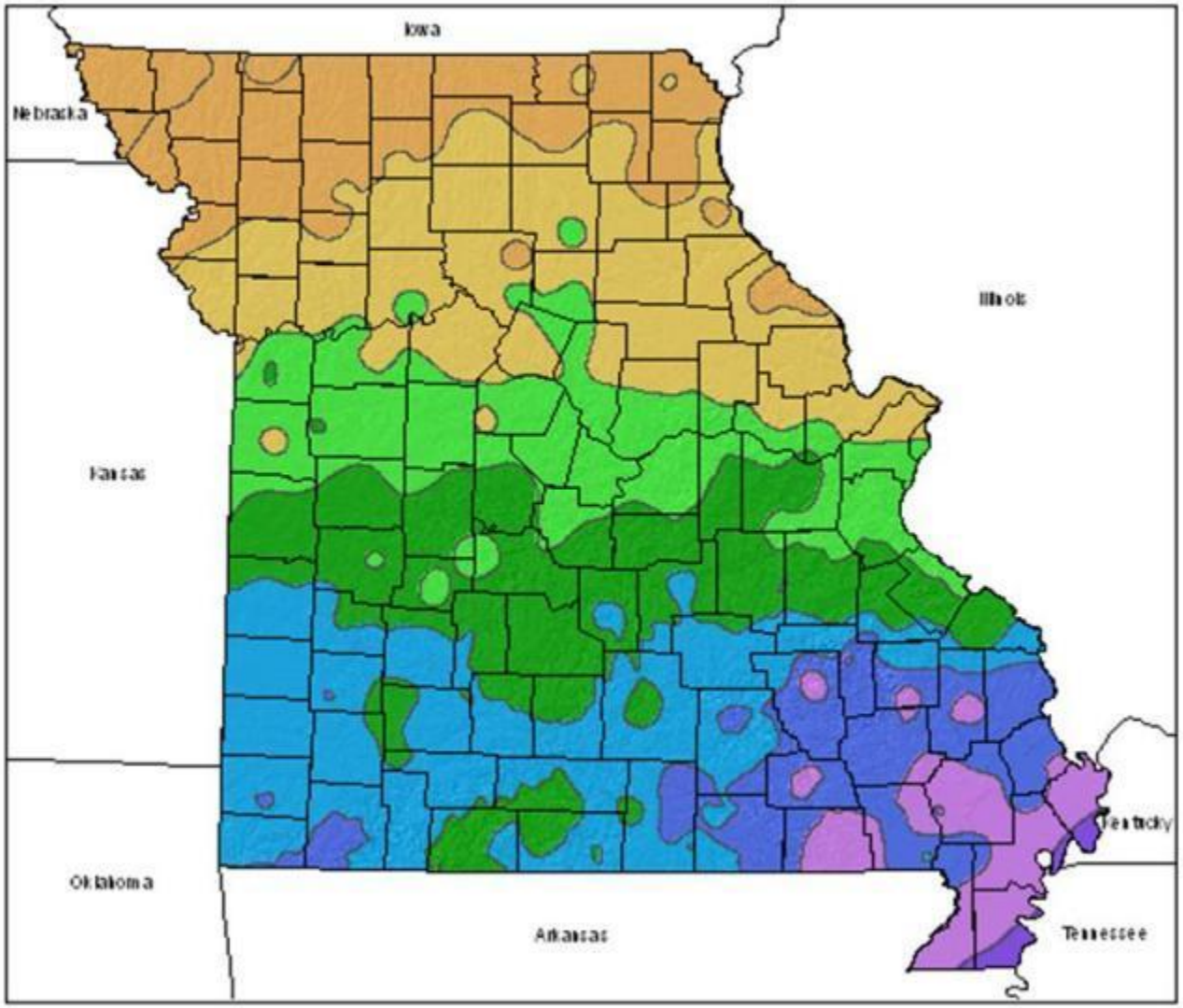
Climograph – Des Moines, IA



Average Annual Precipitation, 1971-2000
Missouri



Precipitation (inches)

- Less than 29
- 29 - 38
- 38 - 40
- 40 - 42
- 42 - 44
- 44 - 46
- 46 - 48
- 48 - 50
- More than 50

N

0 30 60 90 120
Miles

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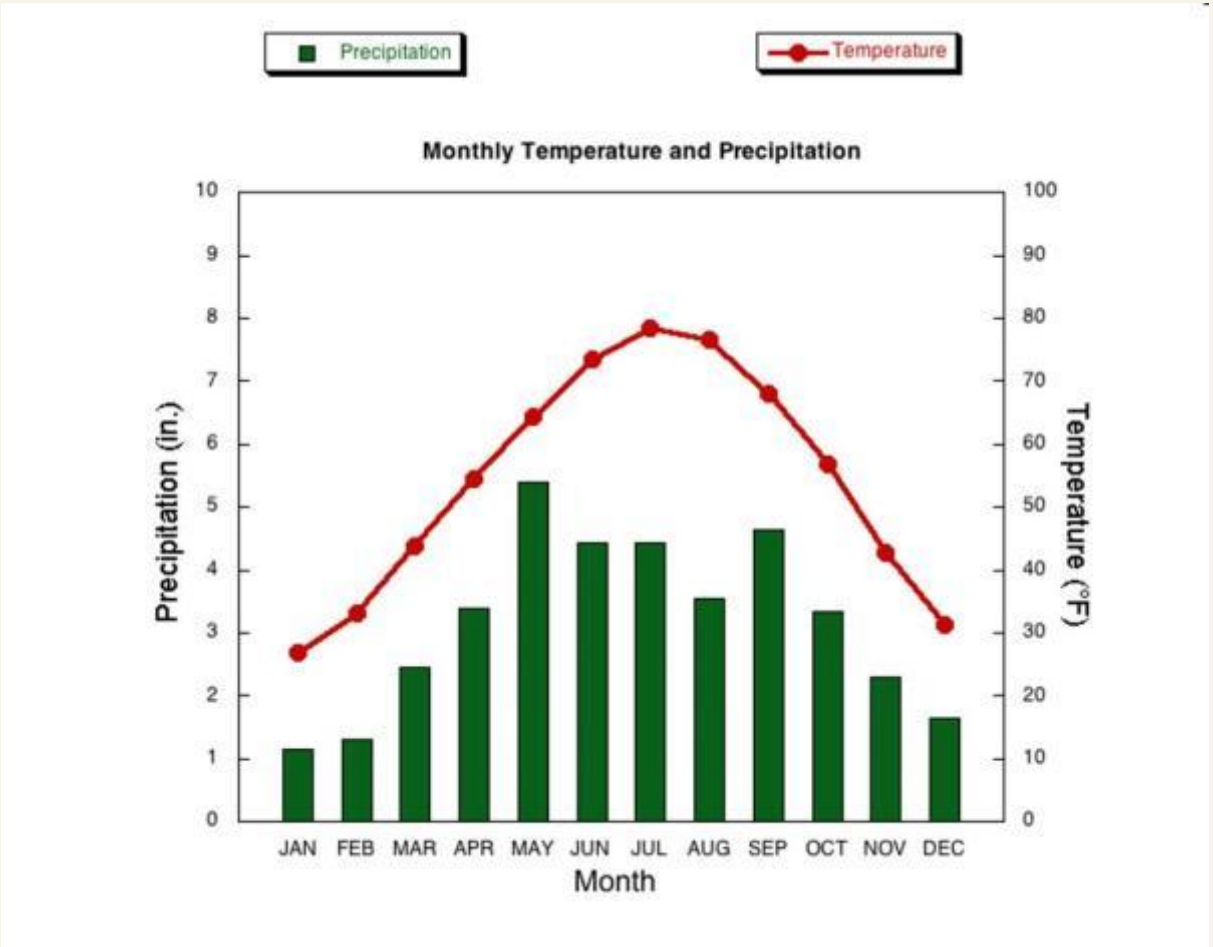
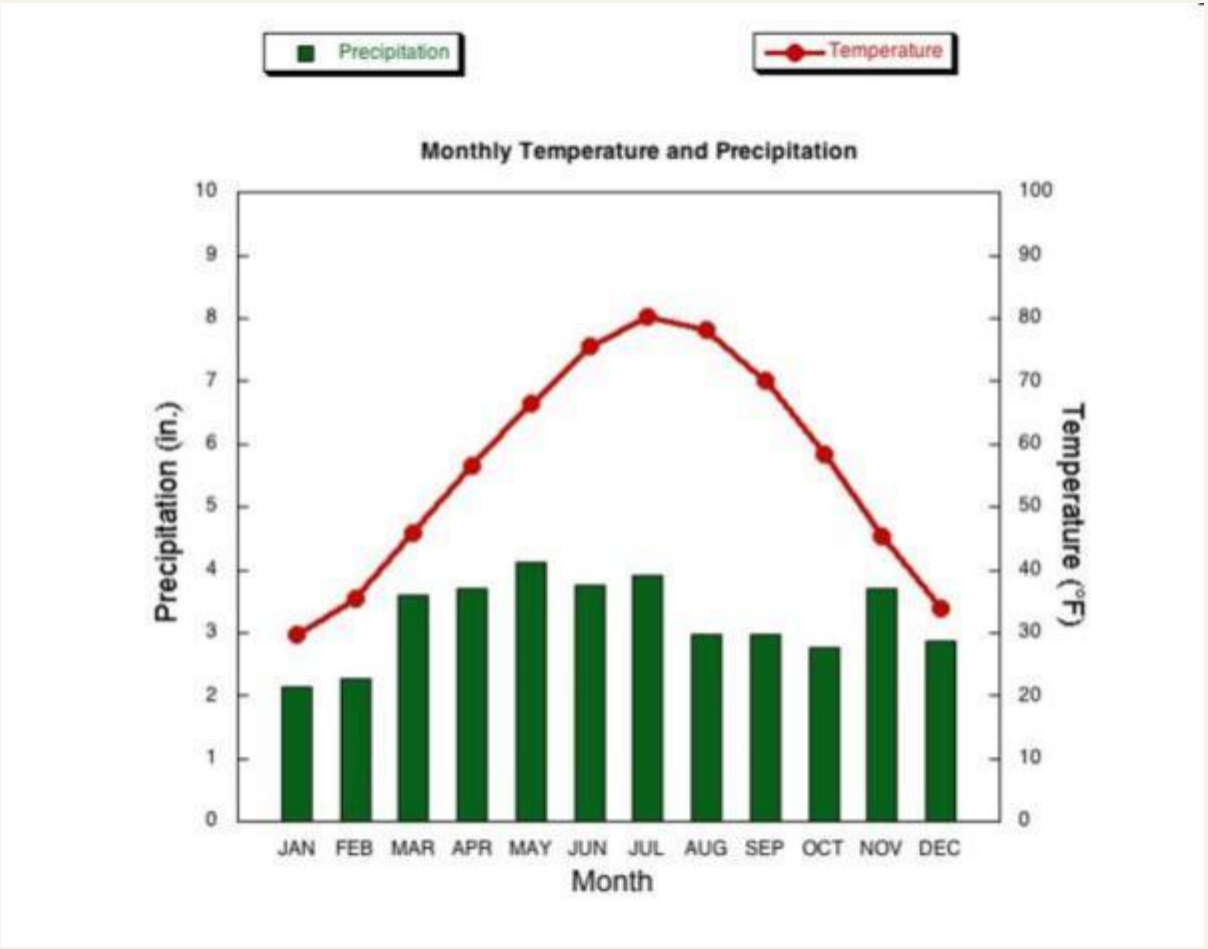
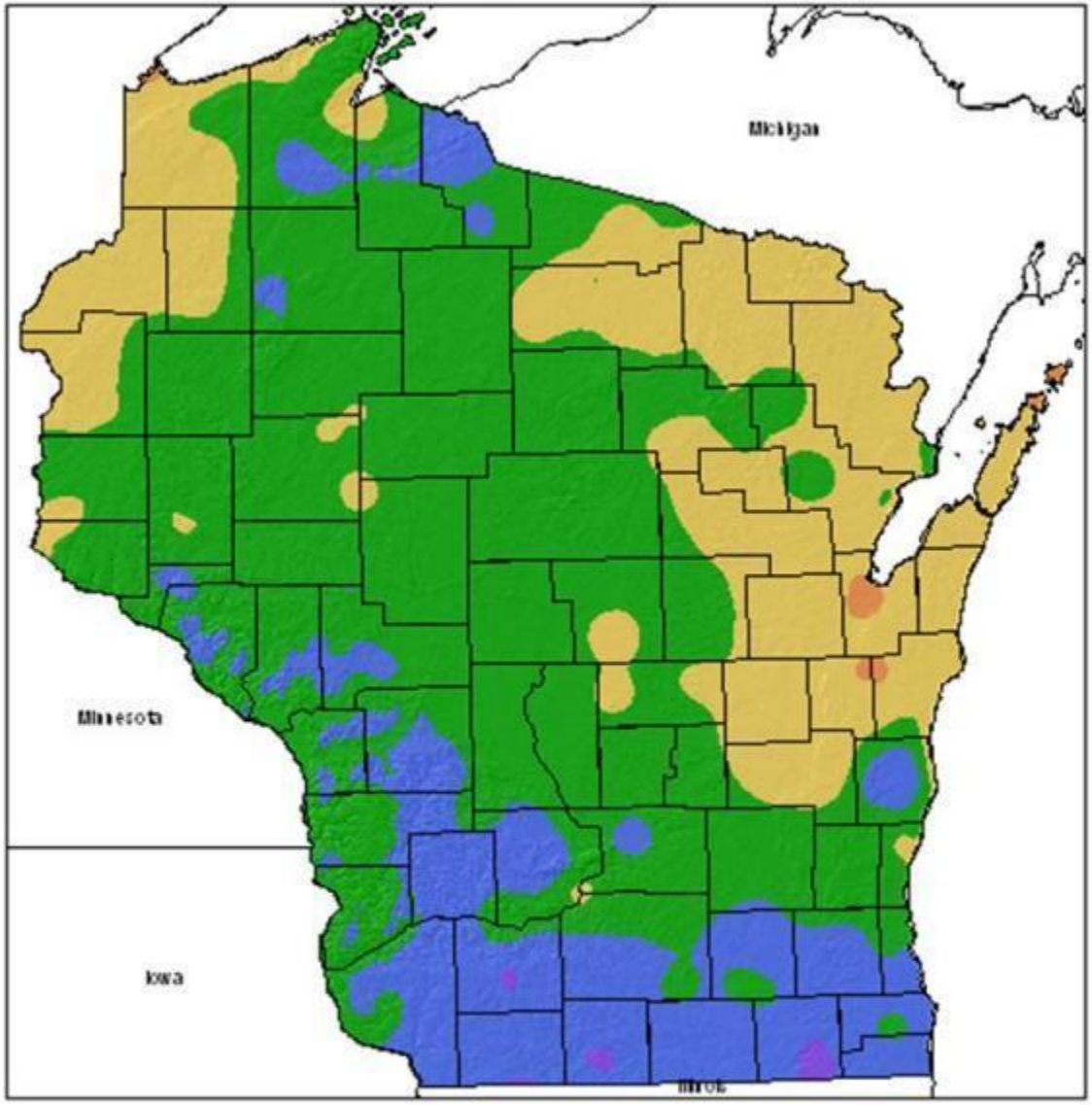
Climograph – Kansas City, MO



Climograph – St. Louis, MO



Average Annual Precipitation, 1971-2000, Wisconsin



Precipitation (inches)

- Less than 30
- 30-32
- 32-34
- 34-36
- More than 36

N

0 25 50 75 100

Miles

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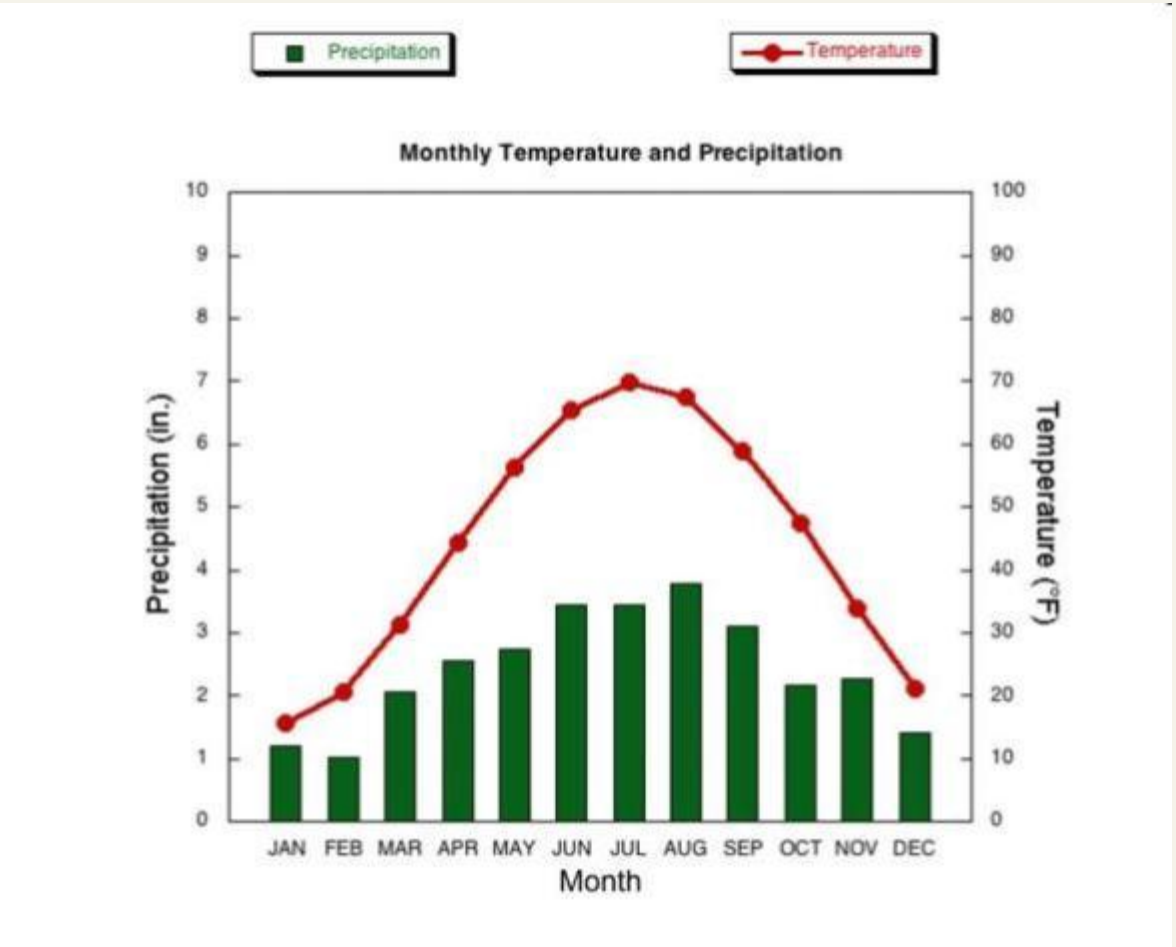
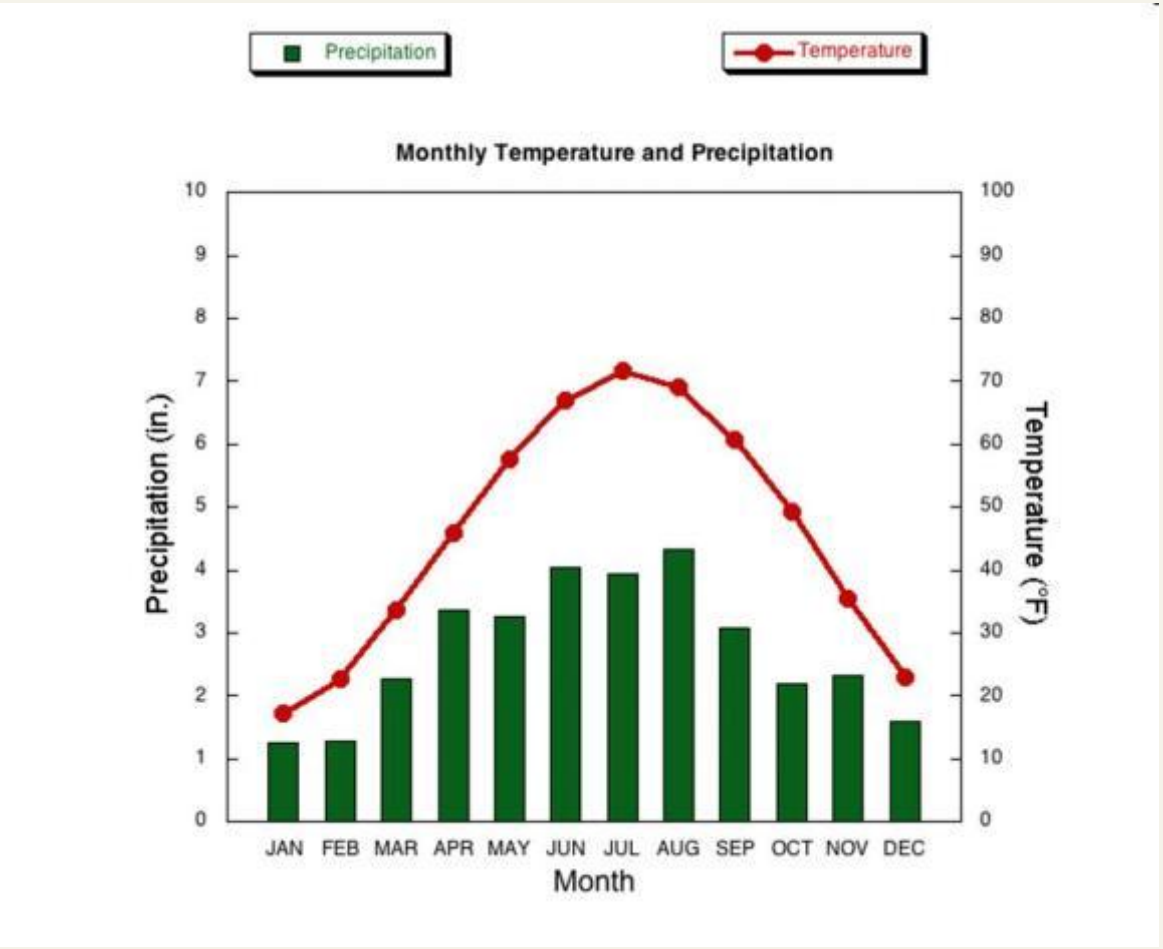
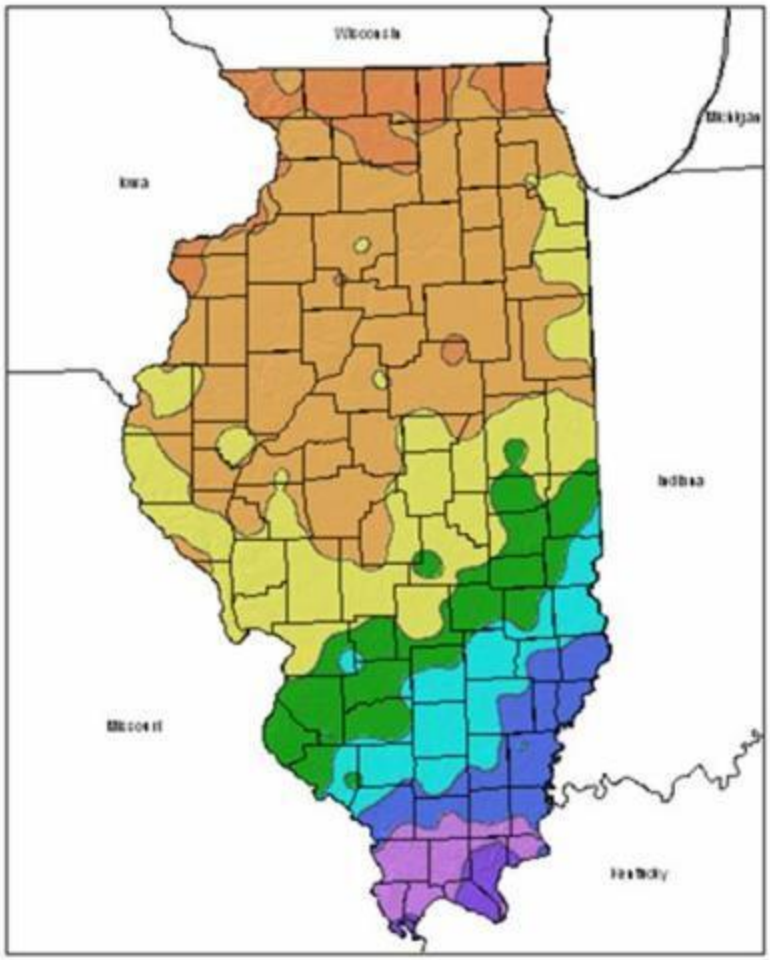
Climograph – Green Bay, WI



Climograph – Madison, WI



Average Annual Precipitation, 1971-2000, Illinois



Precipitation (inches)

Less than 36	40-42	46-48
36-38	42-44	More than 48
38-40	44-46	

N

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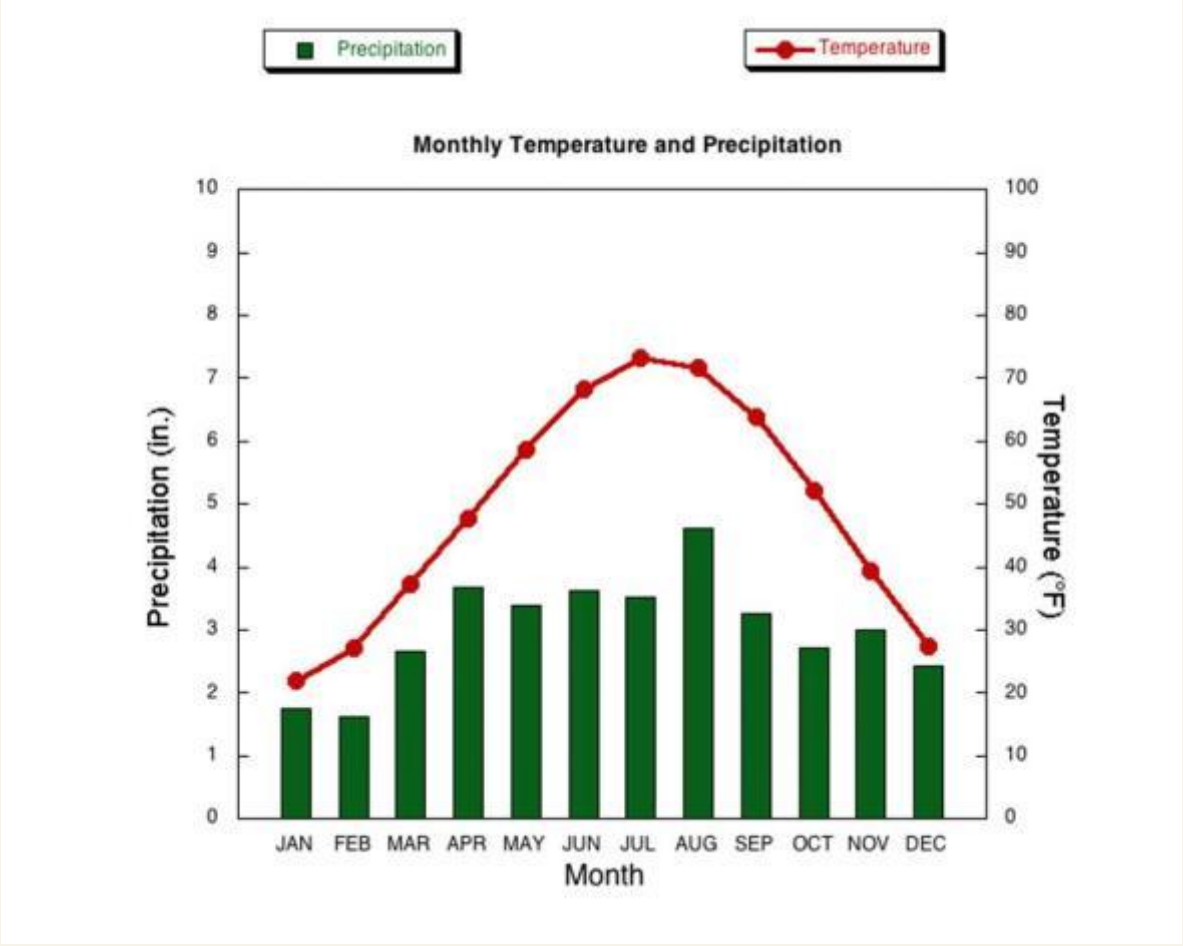
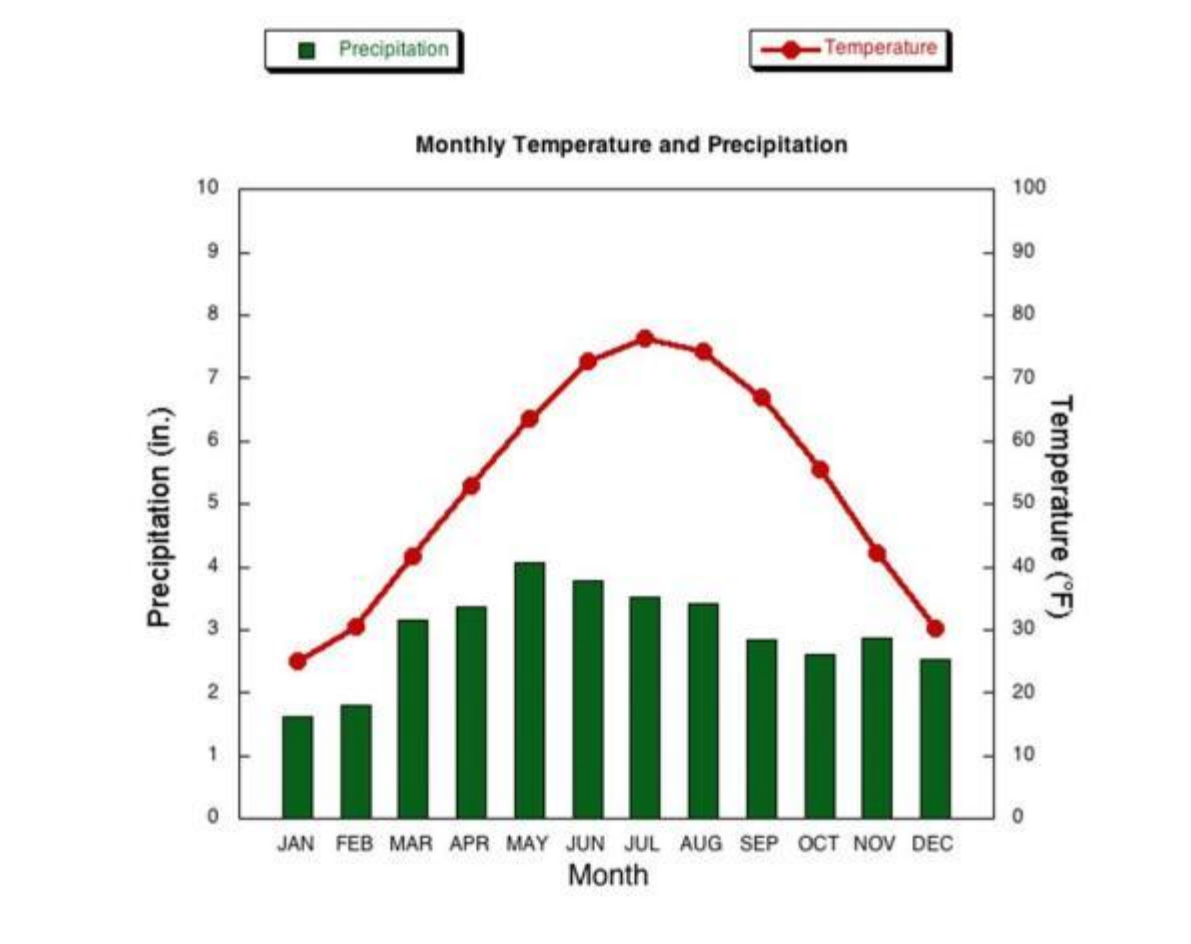
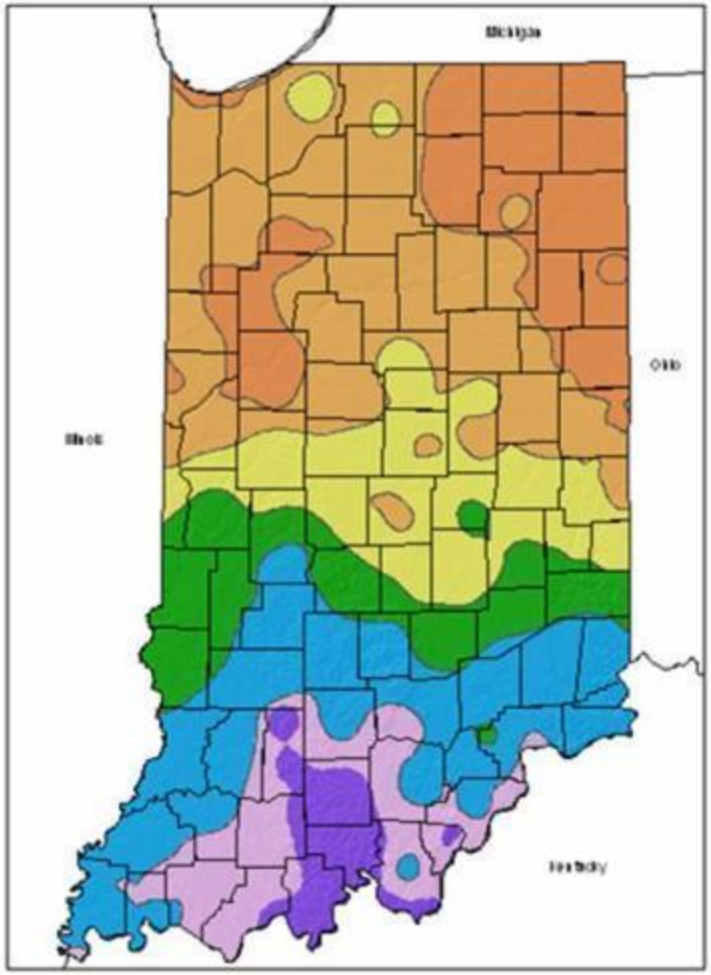
Climograph – Chicago, IL



Climograph – Springfield, IL



Average Annual Precipitation, 1971-2000, Indiana



Precipitation (inches)

- Less than 36
- 36 - 38
- 38 - 40
- 40 - 42
- 42 - 44
- 44-46
- More than 46

0 20 40 60 80
Miles

N

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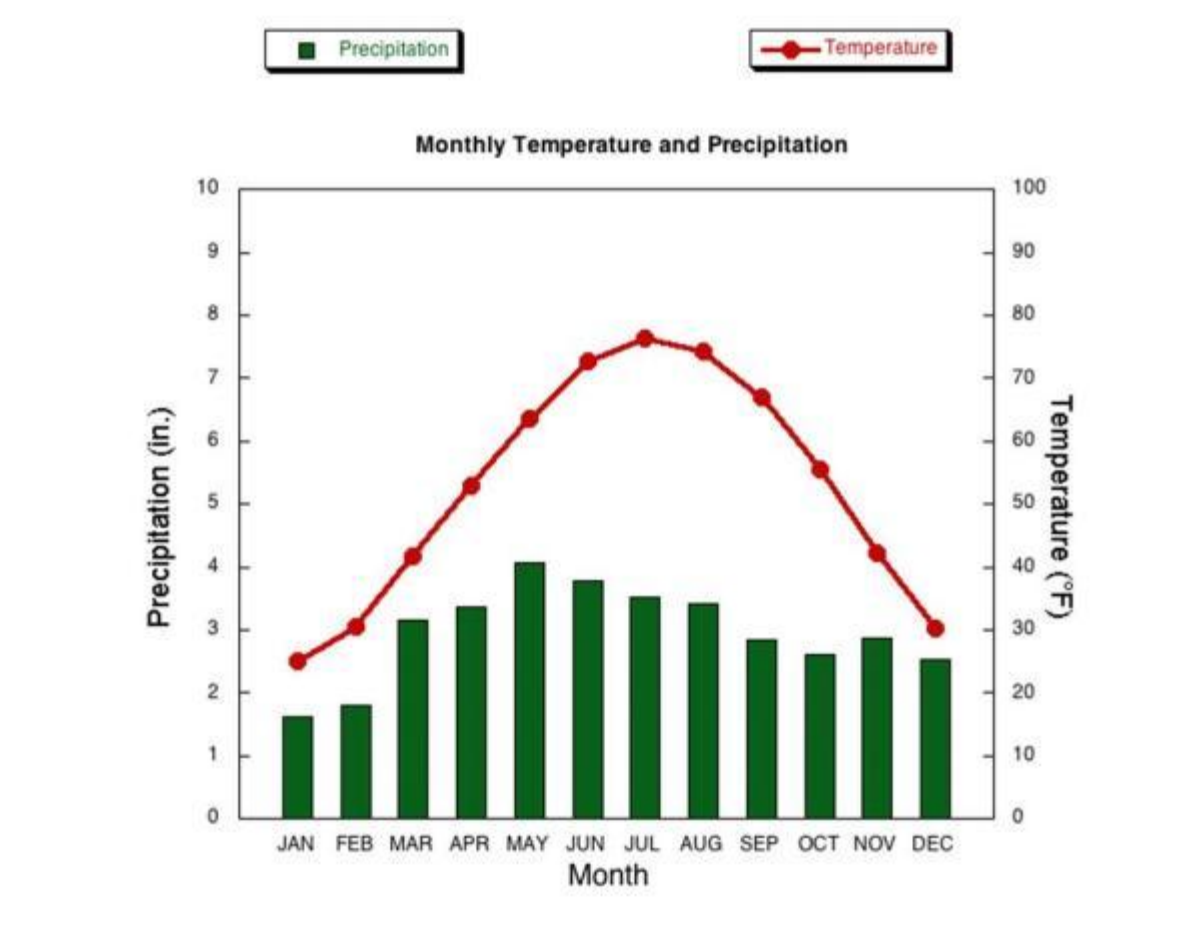
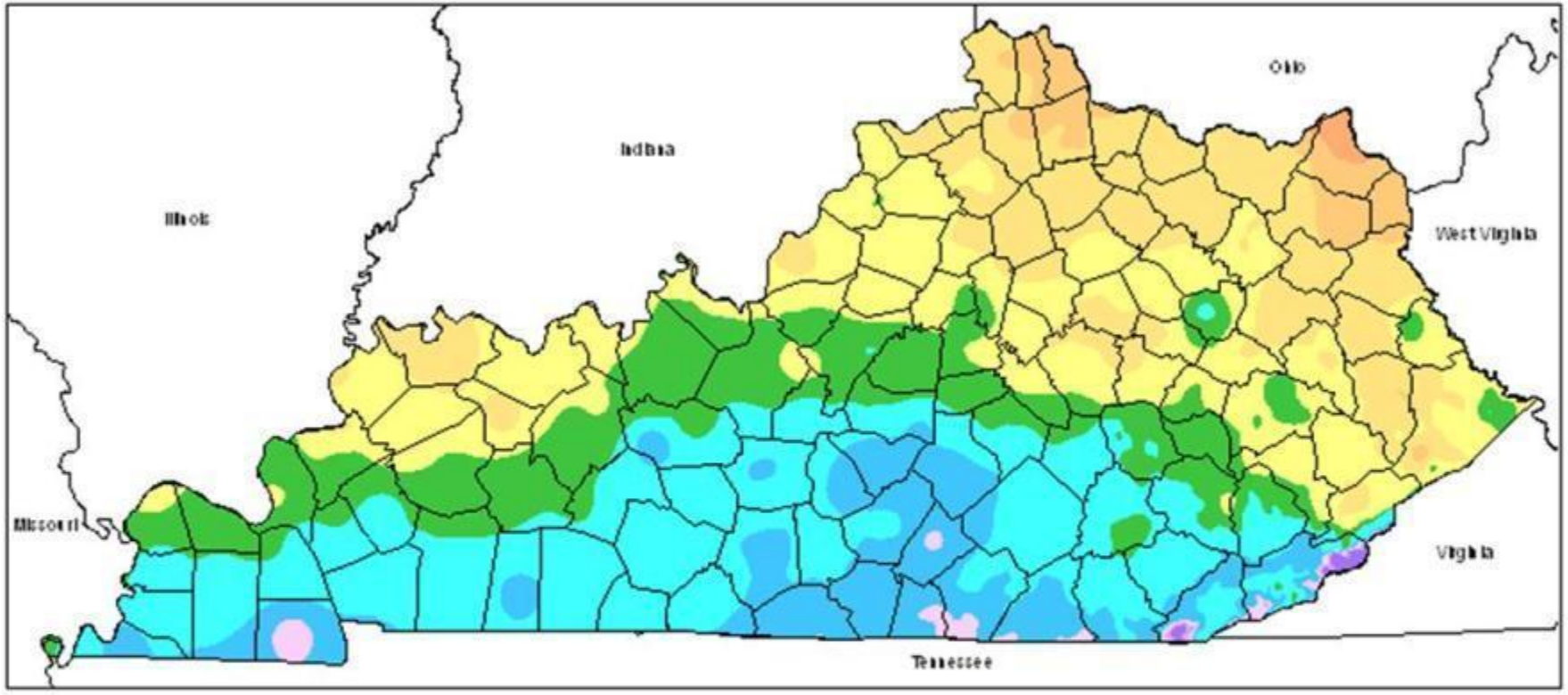
Climograph – Indianapolis, IN



Average Annual Precipitation, 1971-2000, Kentucky



0 25 50 75 100
Miles

Precipitation (inches)

Less than 42	48 - 50	56 - 58
42- 44	50 - 52	More than 58
44- 46	52 - 54	
46 - 48	54 - 56	

N

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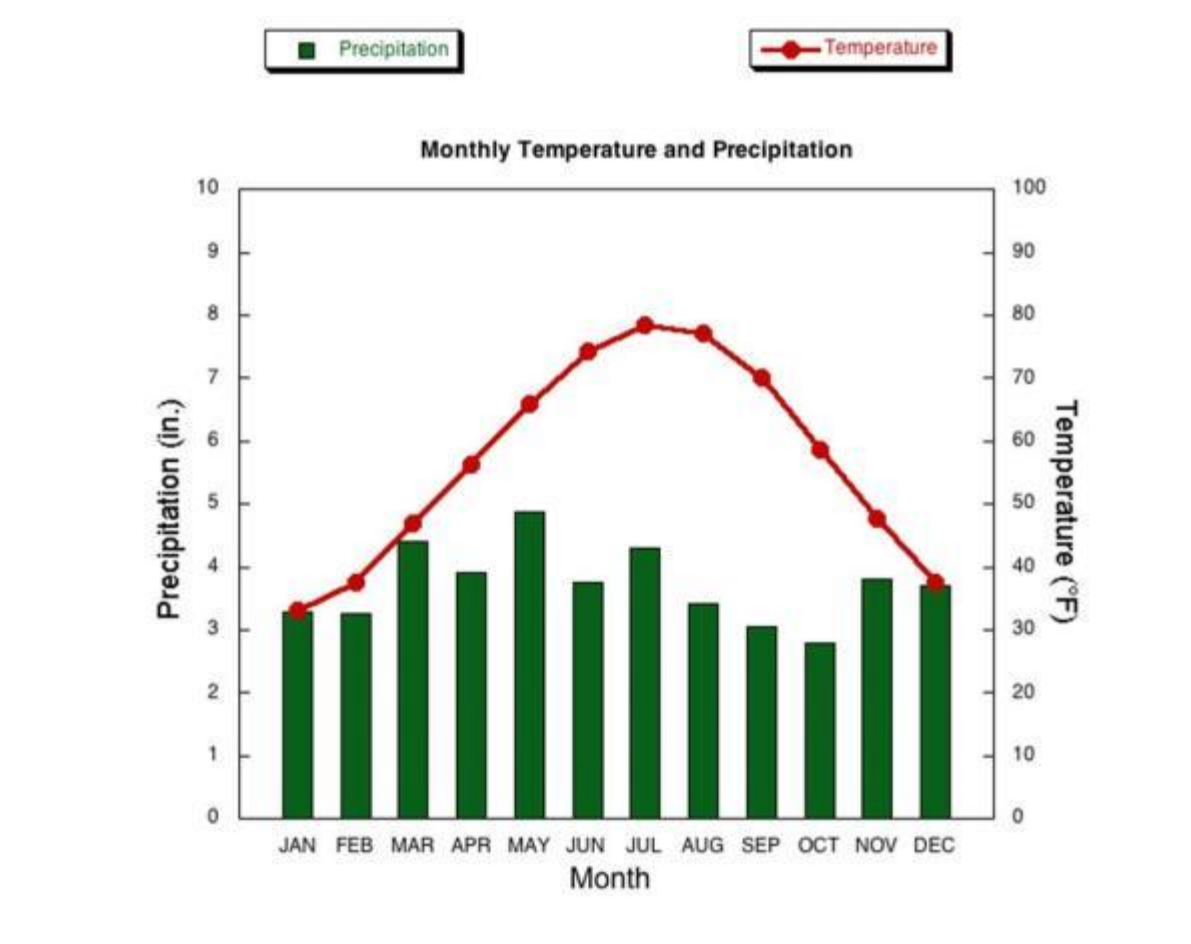
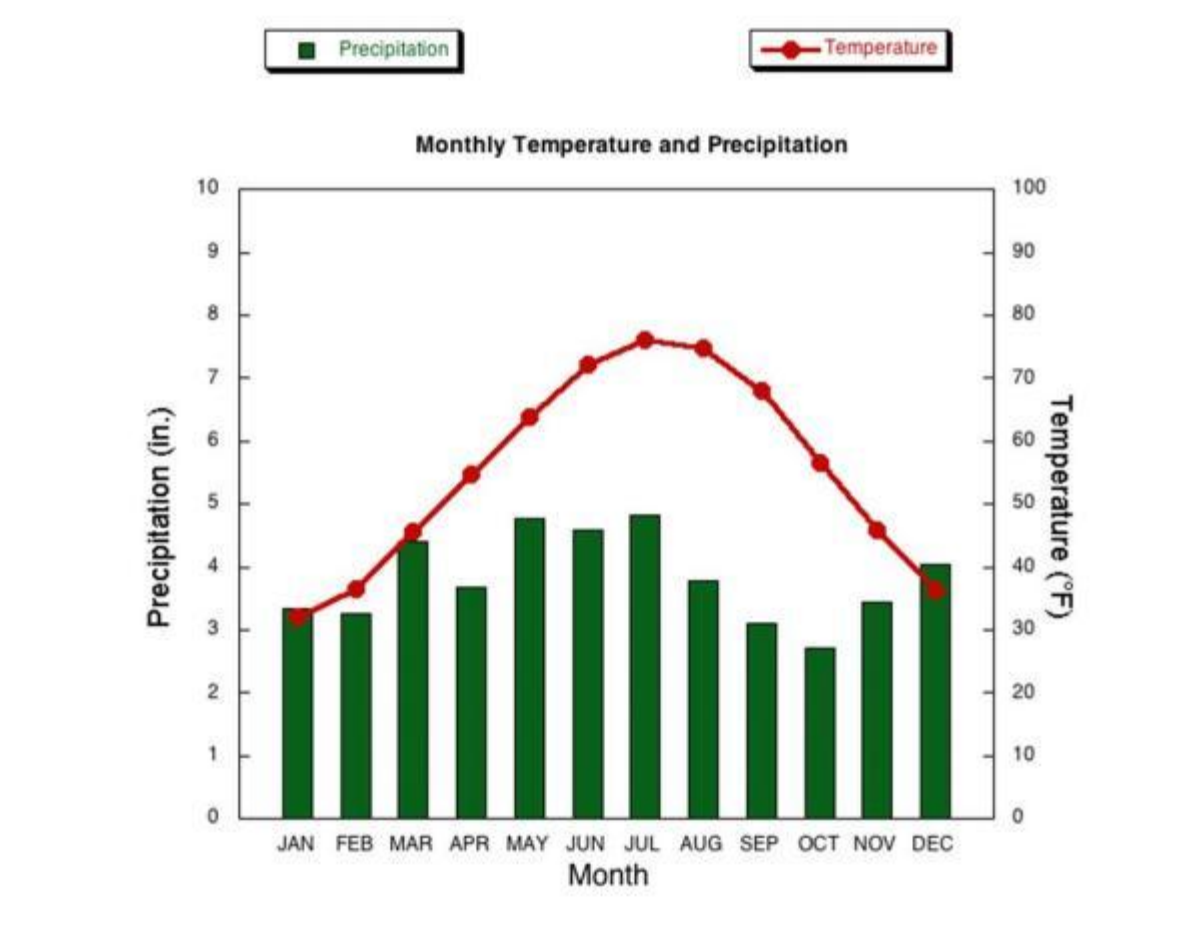
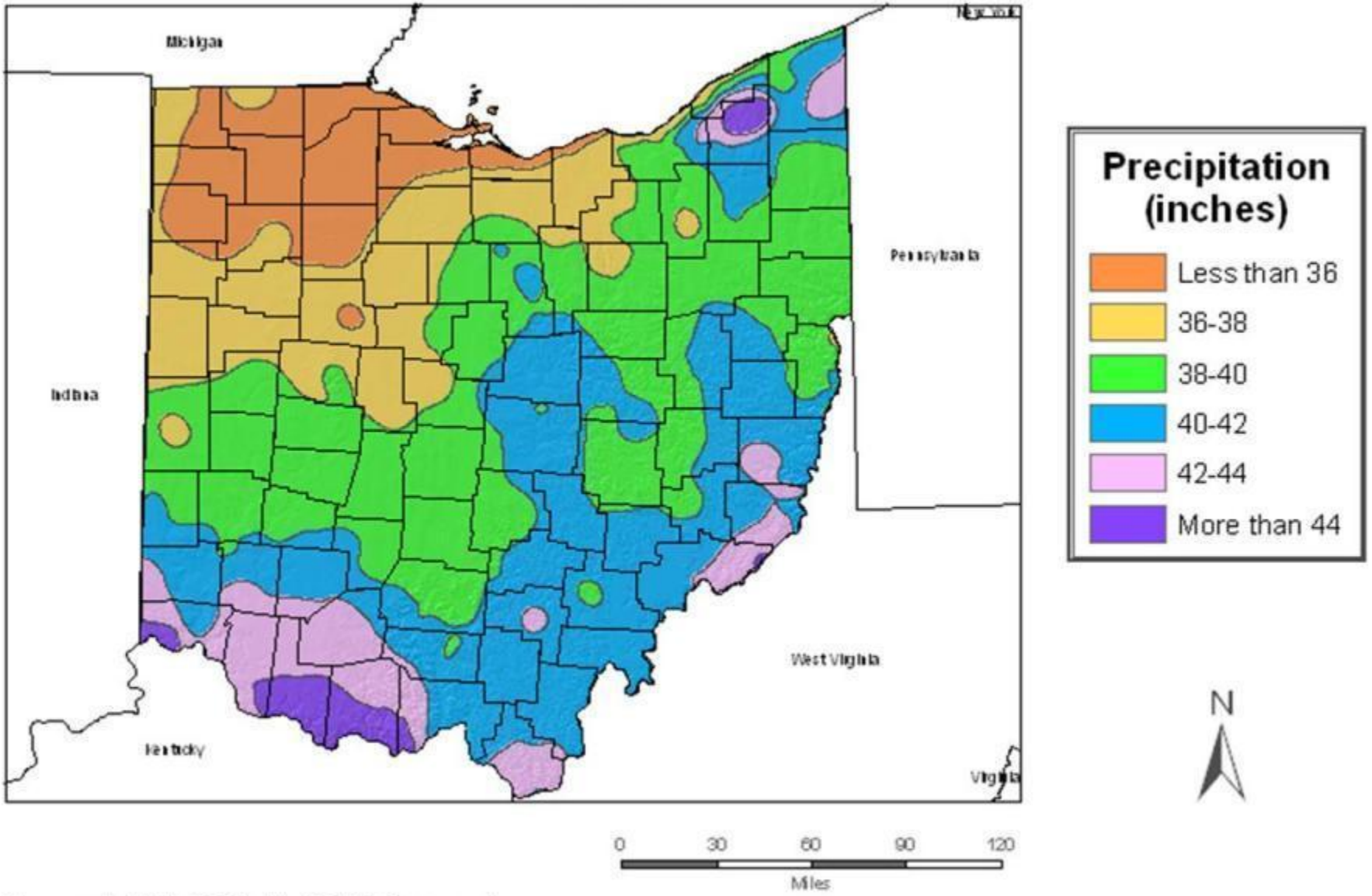
Climograph – Louisville, KY



Climograph – Lexington, KY



Average Annual Precipitation, 1971-2000
Ohio



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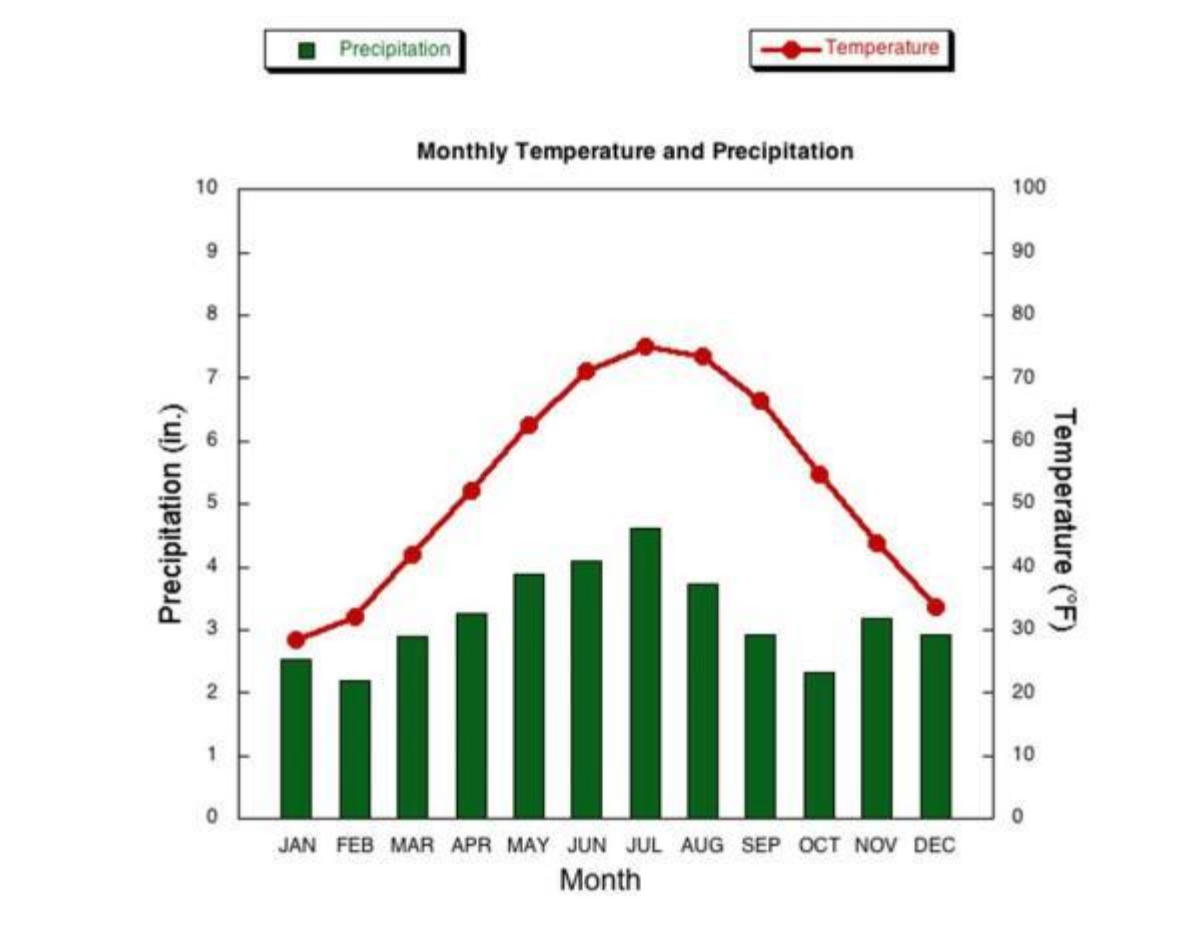
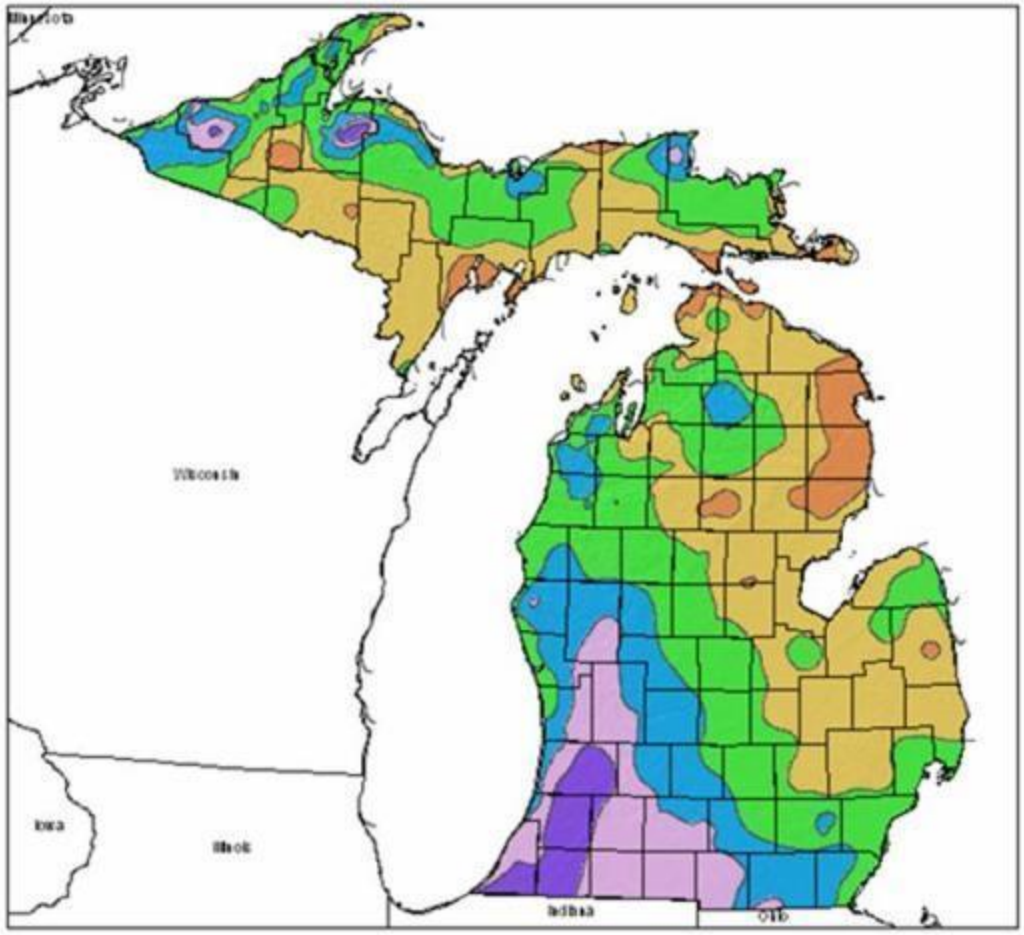
Climograph – Columbus, OH



Average Annual Precipitation, 1971-2000
Michigan



0 30 60 90 120
Miles

Precipitation (inches)

Less than 30	32-34	36-38
30-32	34-36	More than 38

N

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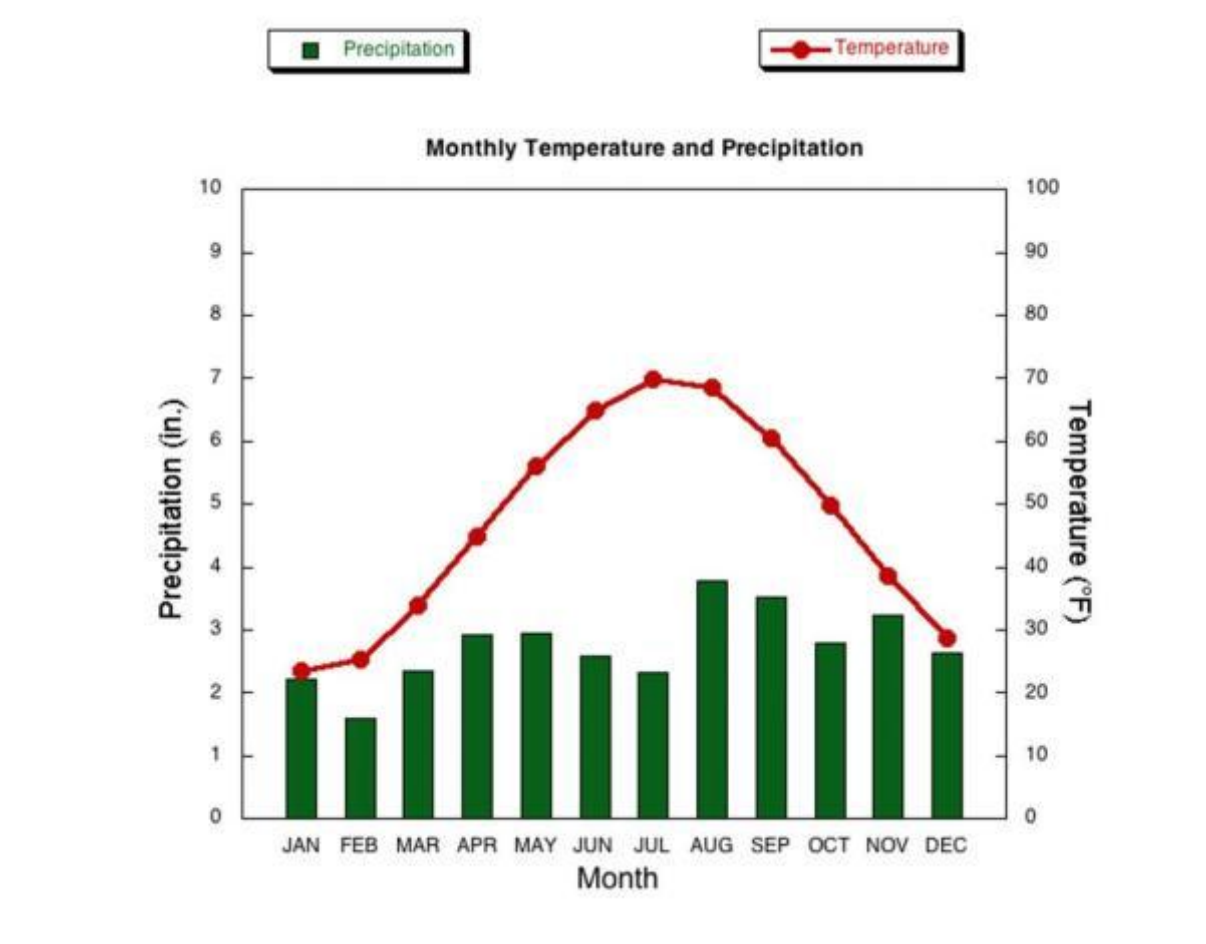
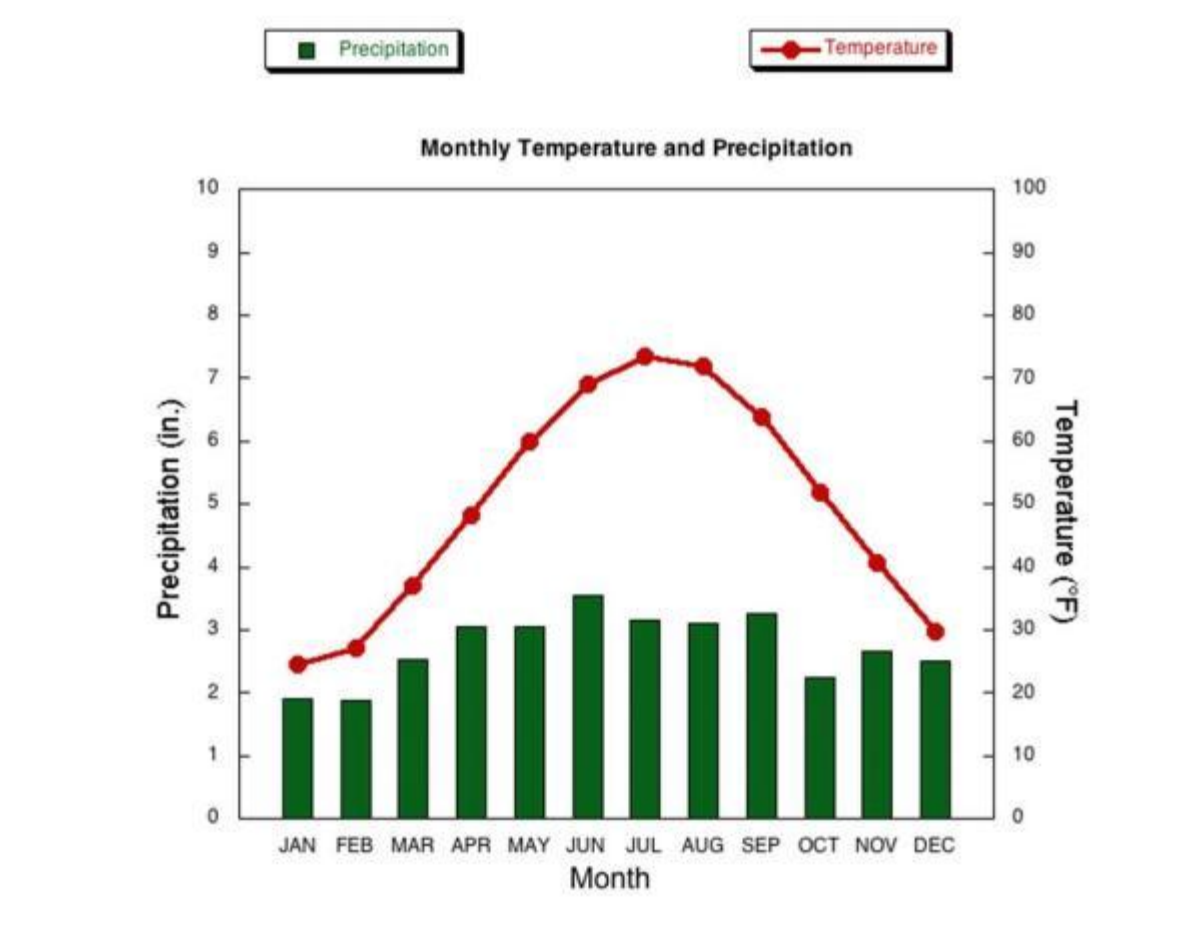
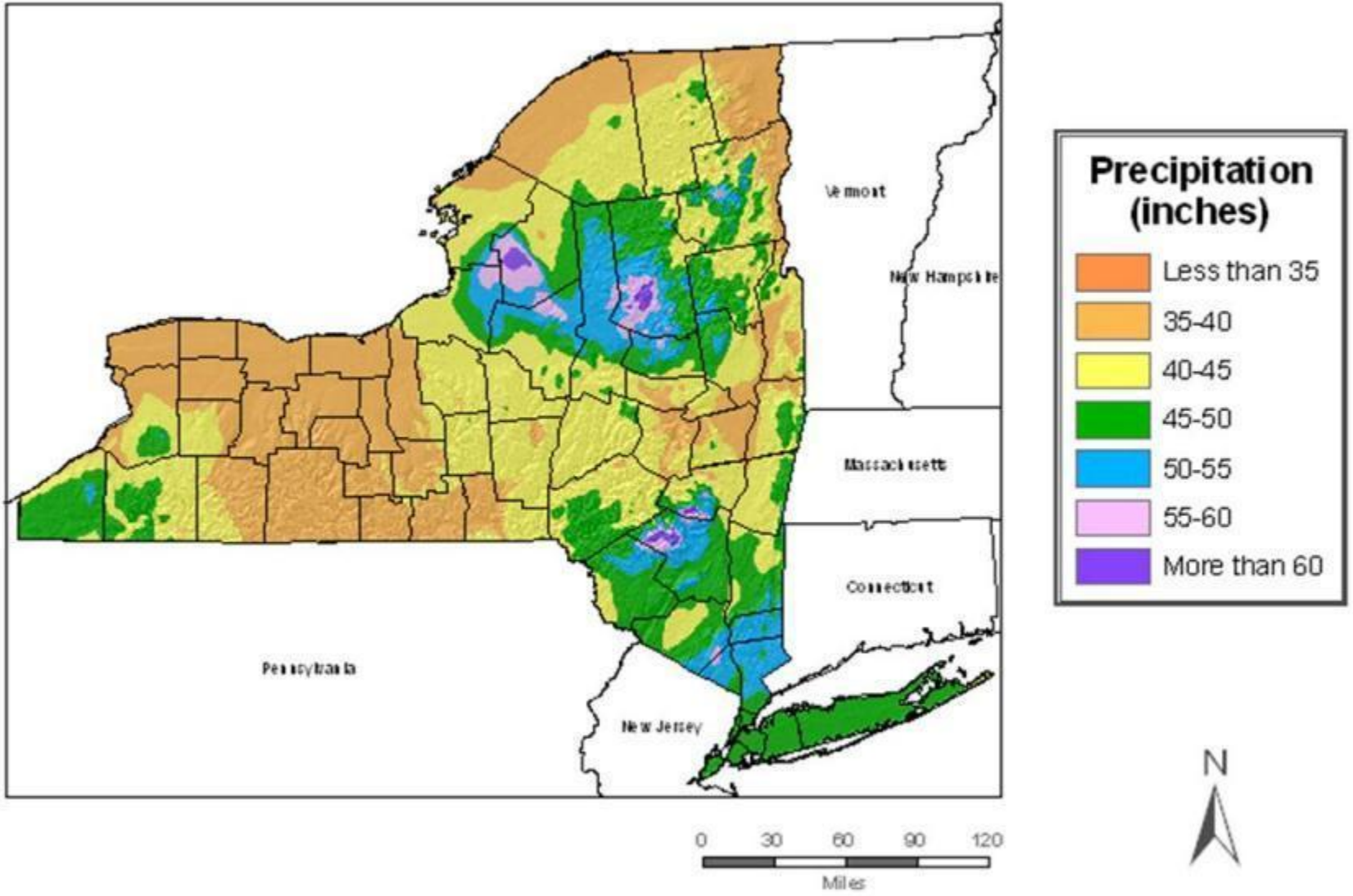
Climograph – Muskegon, MI



Climograph – Detroit, MI



Average Annual Precipitation, 1971-2000
New York



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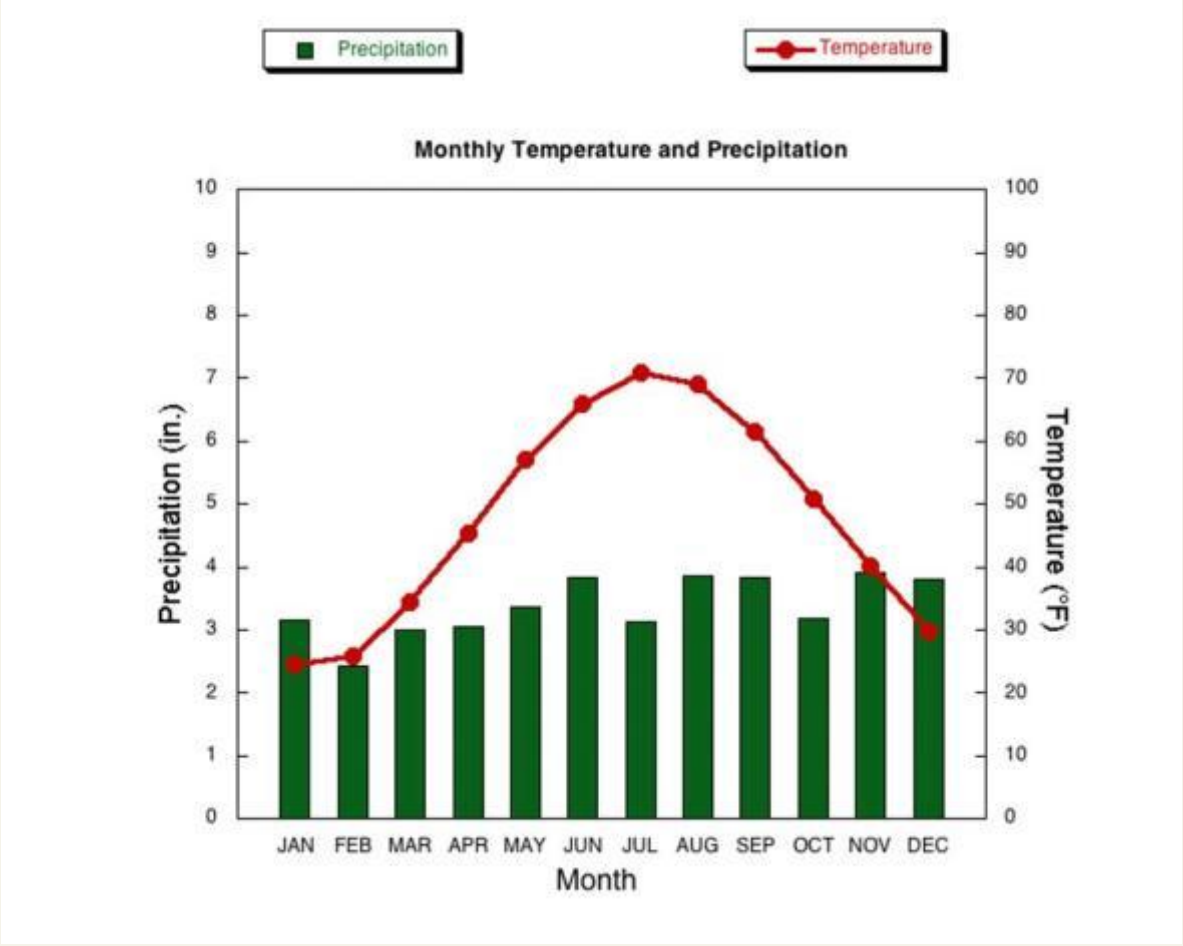
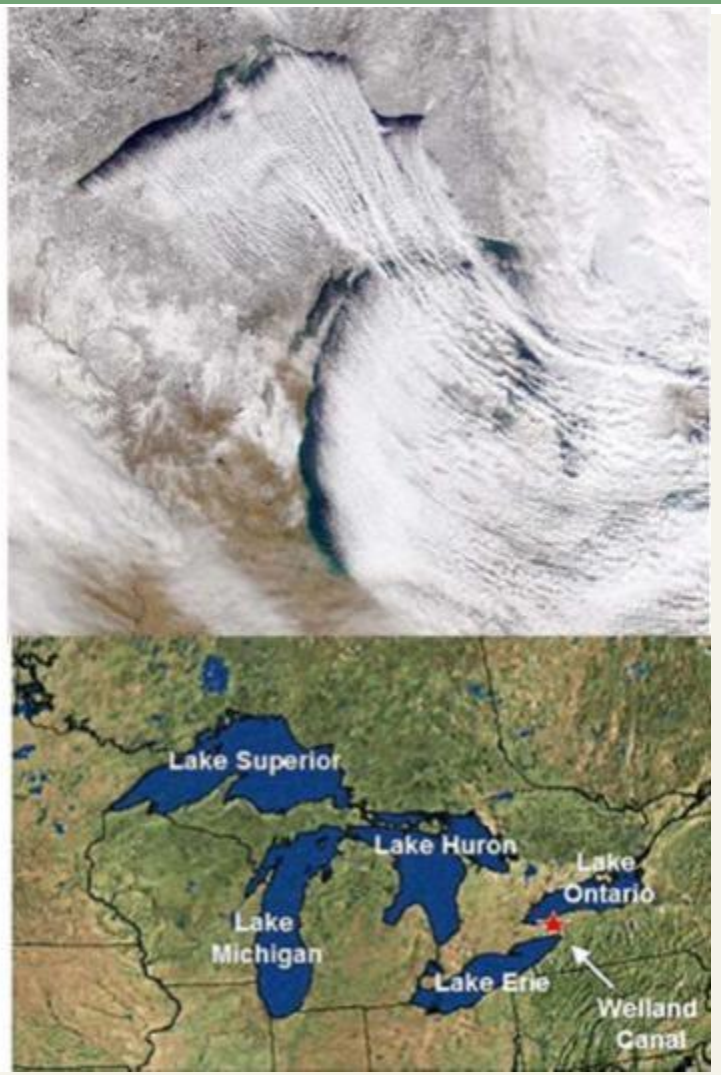
Climograph – Buffalo, NY



Lake Effect Snow

- Lake-effect snow is produced in the winter when cold, Arctic winds move across long expanses of warmer lake water, providing energy and picking up water vapor which freezes and is deposited on the lee shores.



Climate Comparison

	Spokane WA	Buffalo NY	Minneapolis MN	Louisville KY
Jan Temp (F)	33 / 21	30 / 17	20 / 2	41 / 24
Jul Temp (F)	82 / 54	80 / 61	83 / 62	88 / 68
Rainfall	16.5 in.	38 in.	26 in.	44 in.
Snowfall	49 in.	92 in.	49 in.	17 in.

Landscape

- Prairie originally from Illinois westward
  - Mostly grasses, some smaller trees
- Forests elsewhere
  - Conifers near the northern edge
  - Hardwoods elsewhere

Population & Settlement

Early Settlement

- Native presence 10,000 years
- Fairly spread out, mostly somewhat sedentary
- Mound Builders

St. Paul, MN

French Exploration

- Sought fur trade
- Colonized through St. Lawrence and Mississippi Rivers
- Early settlement around 1700, near Detroit and in Illinois
- St. Louis (1764)

British / American

- Original “Native reserve”
- Late 1780’s: American settlement began in earnest

Westward Expansion

- Following the War of 1812, most natives sent west of the Mississippi River.
- Cleveland: 1796, Chicago: 1817, Milwaukee: 1840, Kansas City: 1853.
- Once Great Plains settled, westward migration focused there and much of the boom in this region subsided.

Direct Migration

- To Heartland increased after around 1880
- Many northern and eastern Europeans
  - Minnesota: Scandinavians, Norwegians
  - Milwaukee, Germans
  - Cleveland: Germans, Slovenians

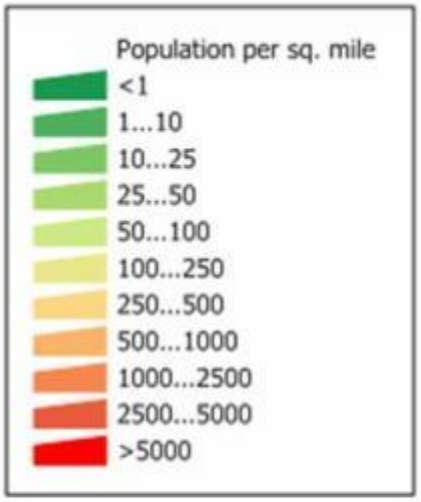
Present Population

- Some urban areas experiencing decent growth
  - Minneapolis/St. Paul (17%), Madison (16%), Indianapolis (16%), Nashville (25%)
- Others not
  - St. Louis (4%), Cleveland (3%), Detroit (5%), Toledo (0%)
- Very rapid growth in Canada
  - Especially around Toronto and Ottawa

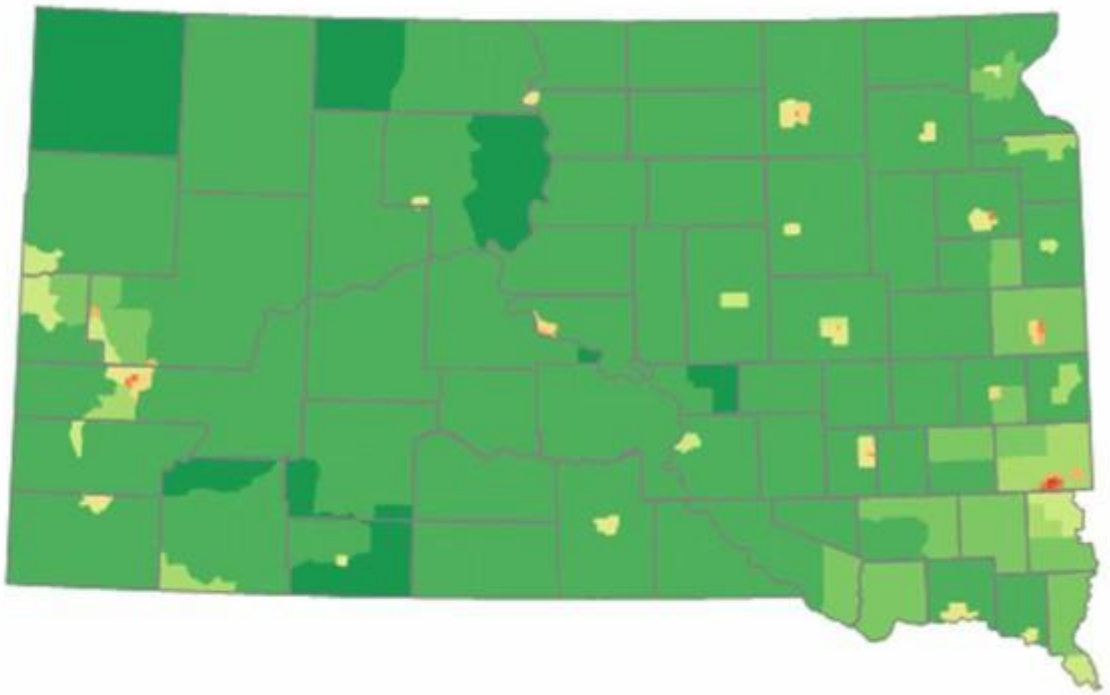
Population Numbers

State/Metro area	**2000** (1,000's)	**1990** (1,000's)	**Change**
Ohio	11,353	10,847	+5%
Michigan	9,923	9,295	+7%
Indiana	6,080	5,544	+10%
Illinois	12,419	11,430	+9%
Iowa	2,926	2,776	+5%
Kentucky	4,041	3,685	+10%
Missouri	5,595	5,117	+9%
Wisconsin	5,363	4,891	+10%
Minnesota	4,919	4,375	+12%
Toronto	2,481	2,275	+9%
US & Canada	312,600	276,700	+13%

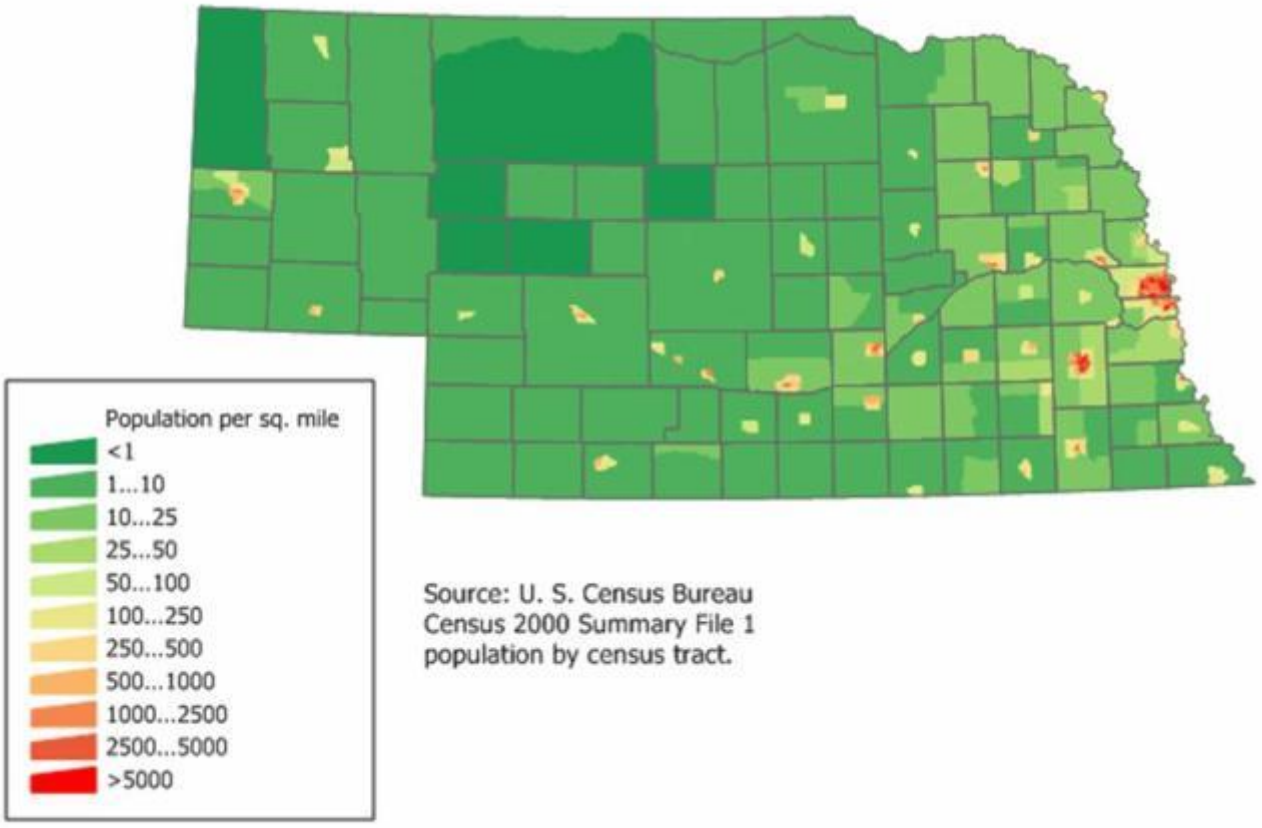
Population Density – SD



Source: U. S. Census Bureau
Census 2000 Summary File 1
population by census tract.

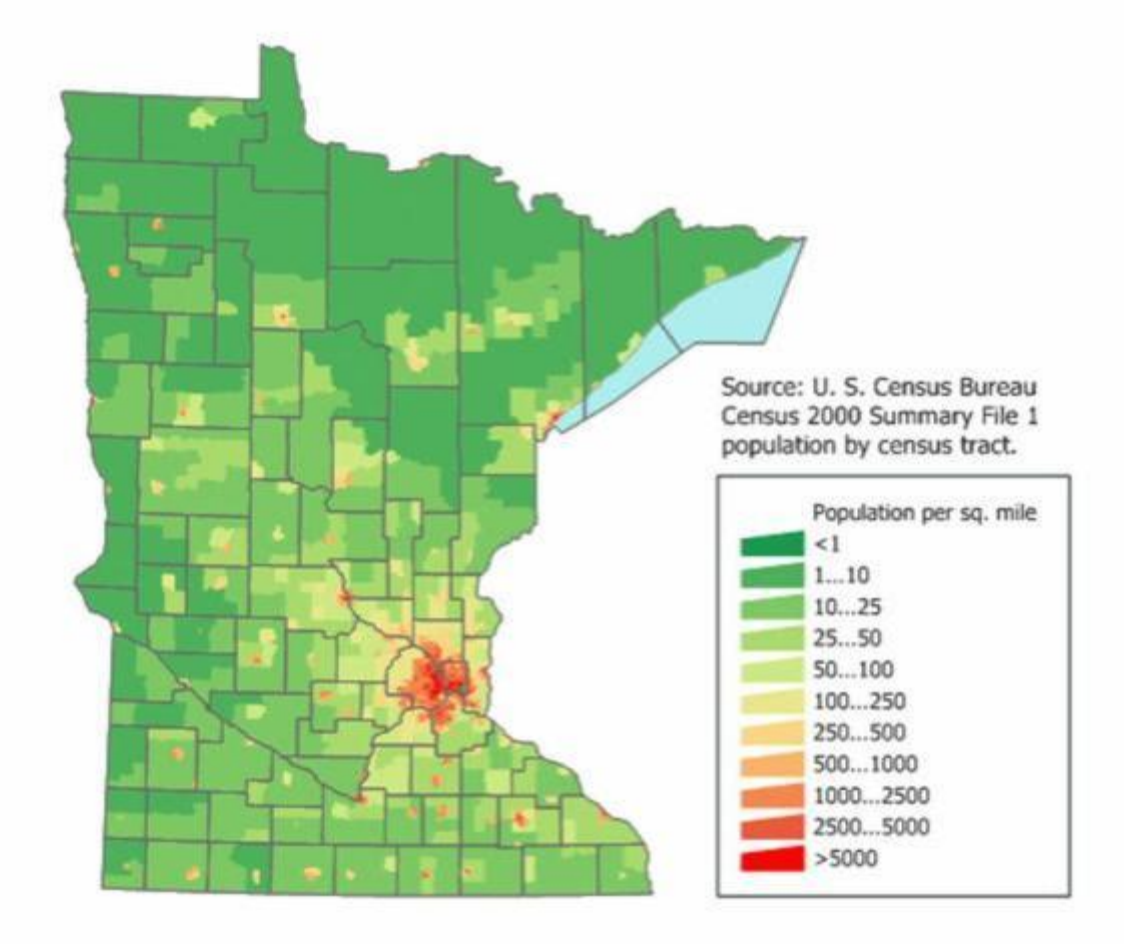


Population Density – NE

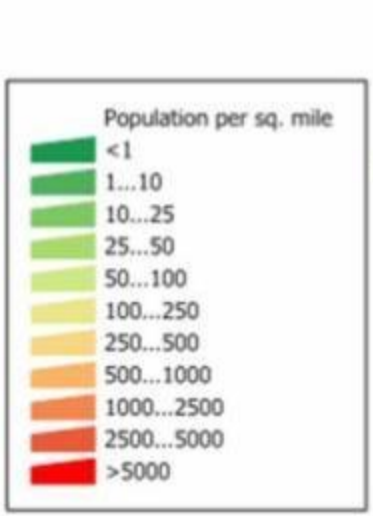


Source: U. S. Census Bureau
Census 2000 Summary File 1
population by census tract.

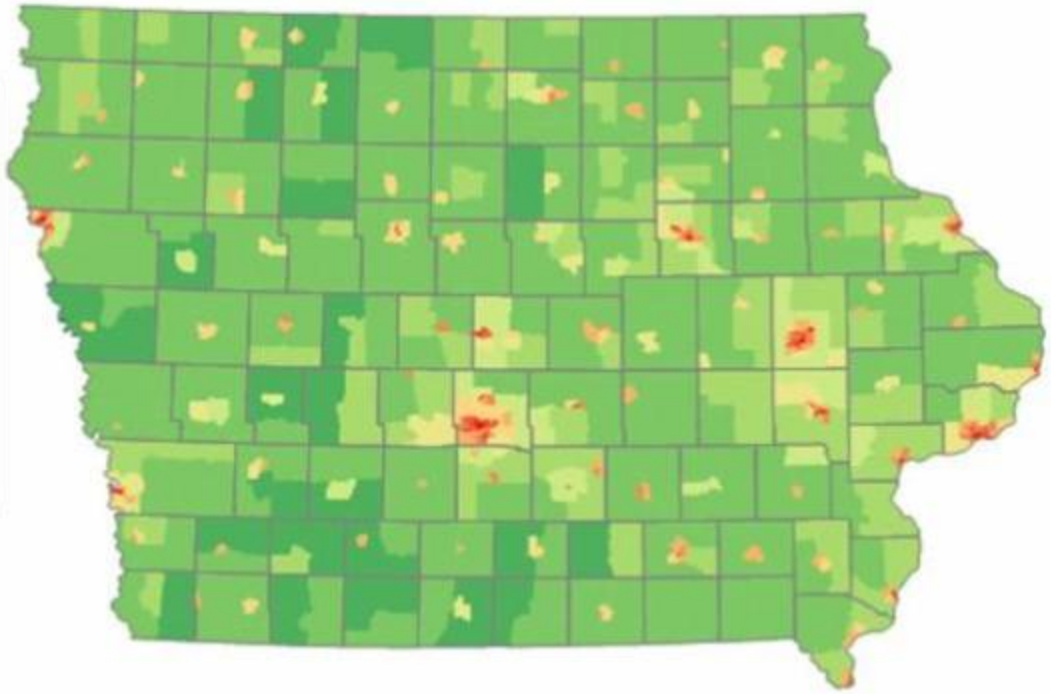
Population Density – MN



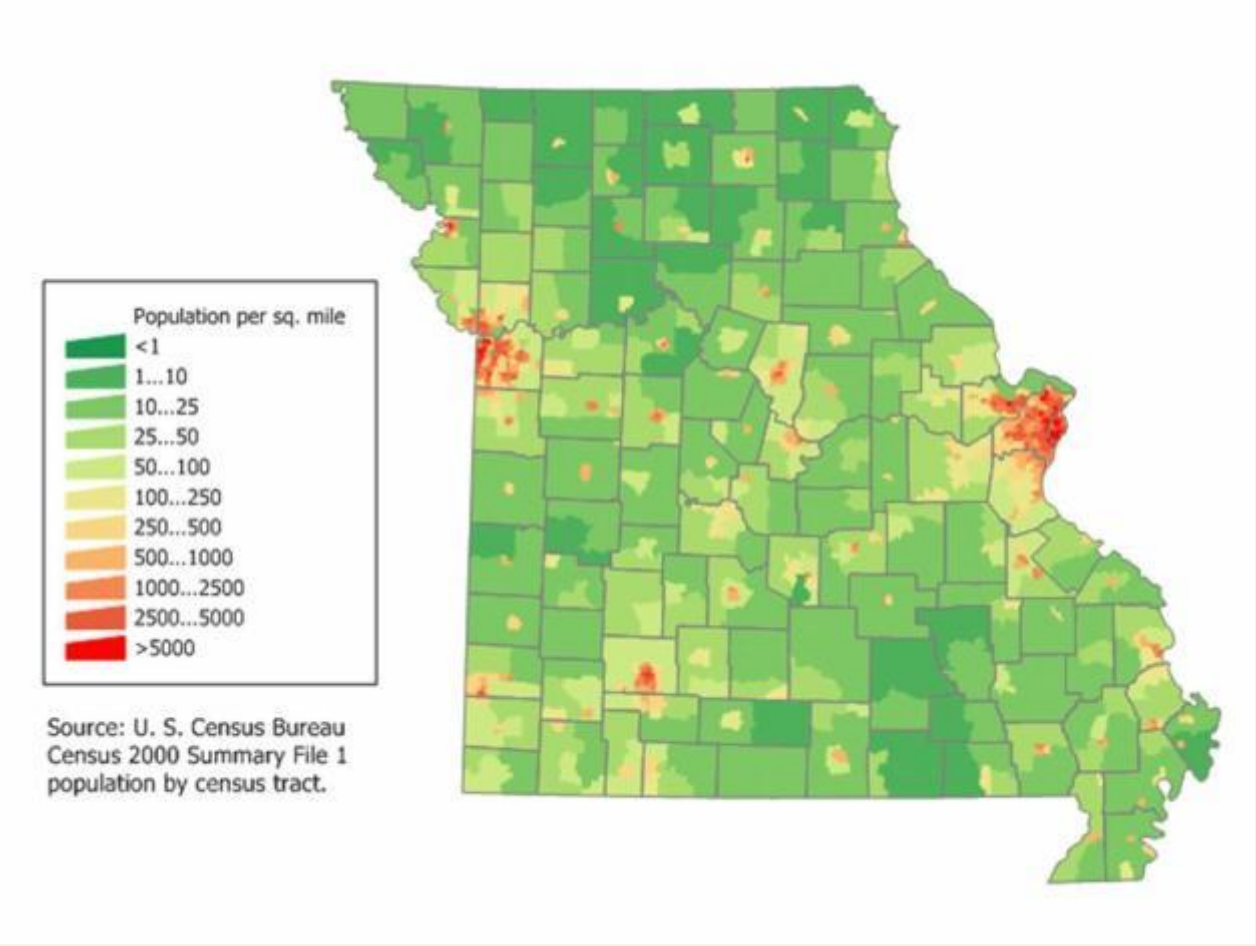
Population Density – IA



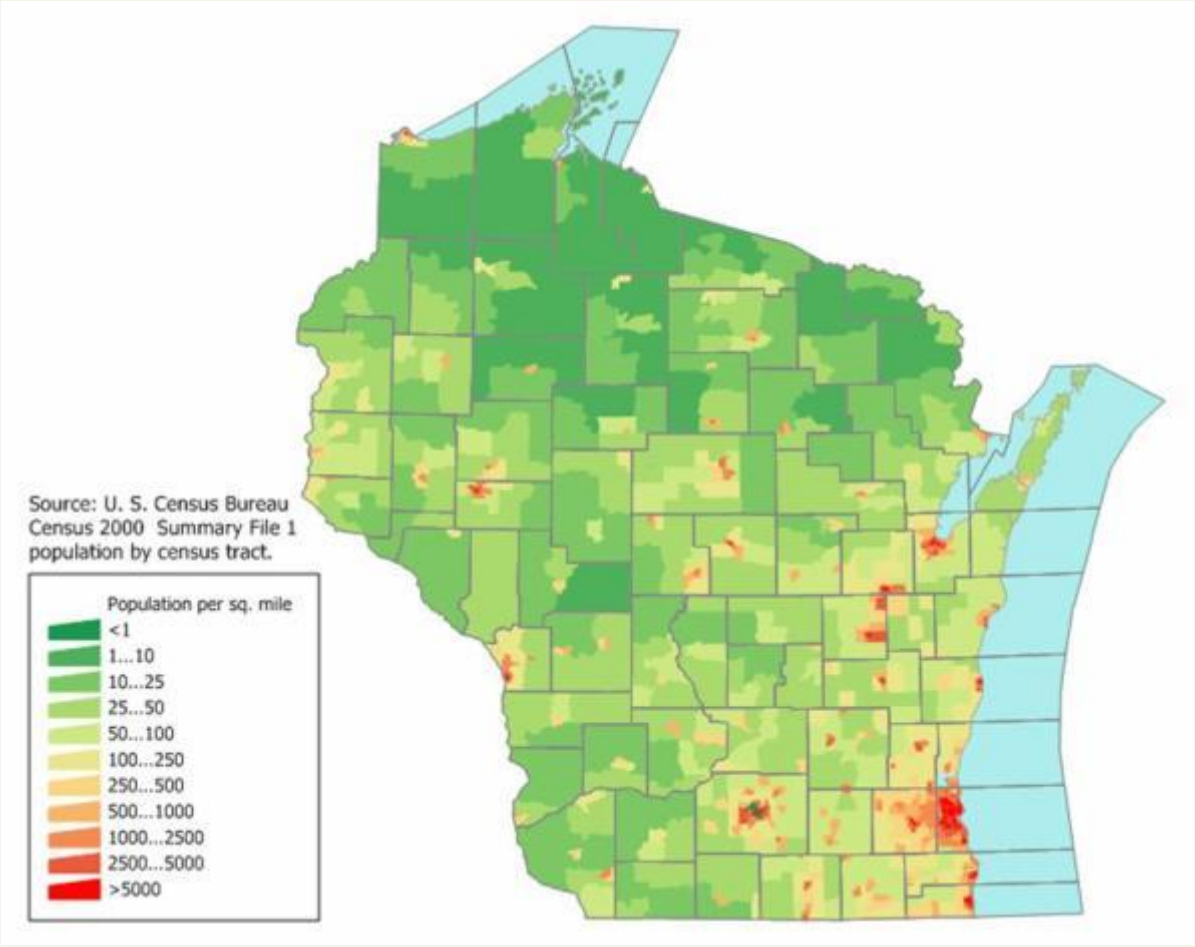
Source: U. S. Census Bureau
Census 2000 Summary File 1
population by census tracts.



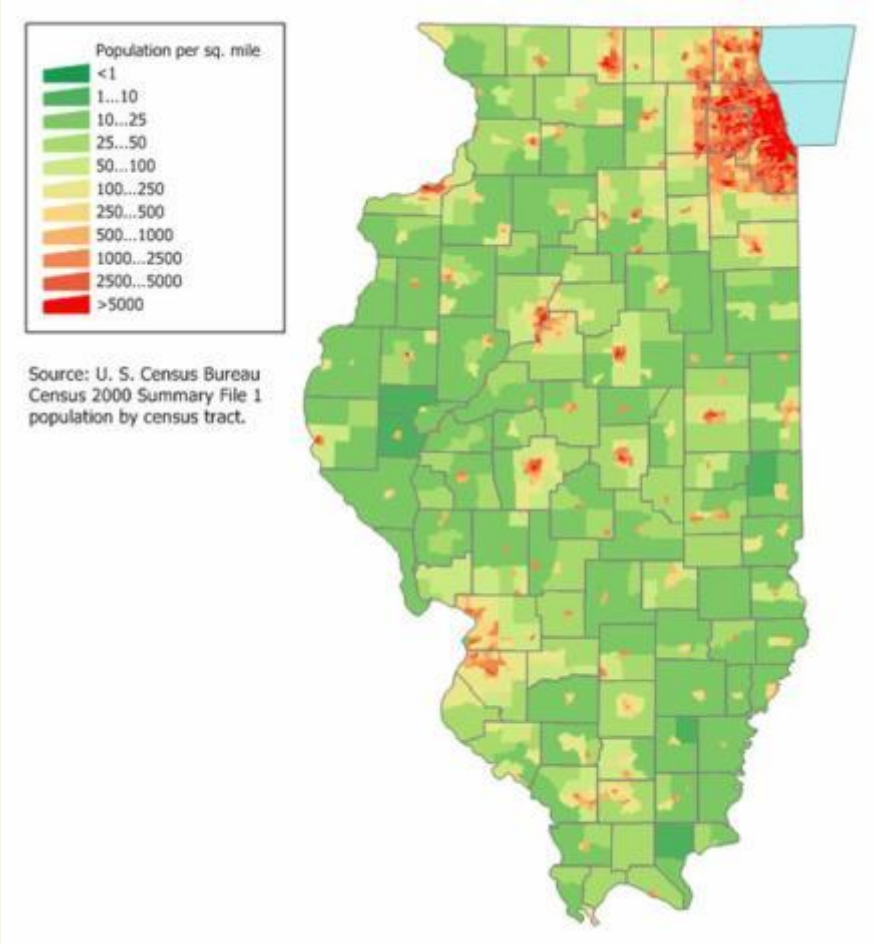
Population Density – MO



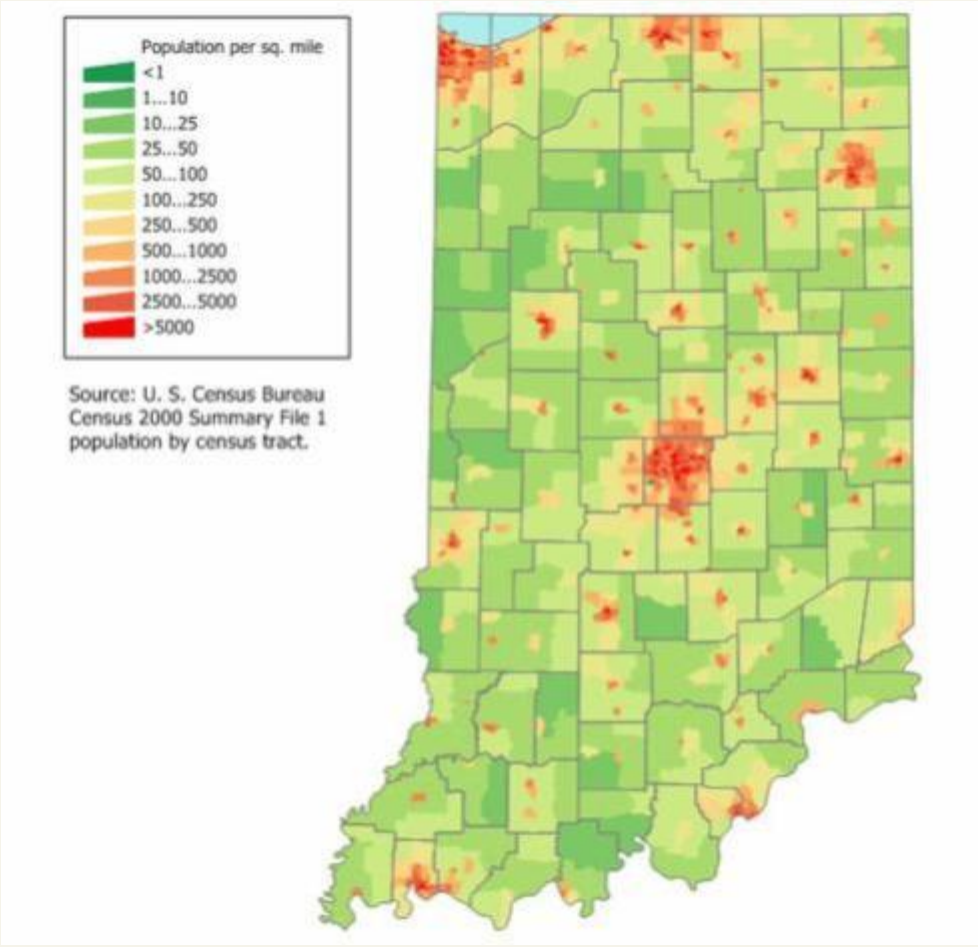
Population Density – WI



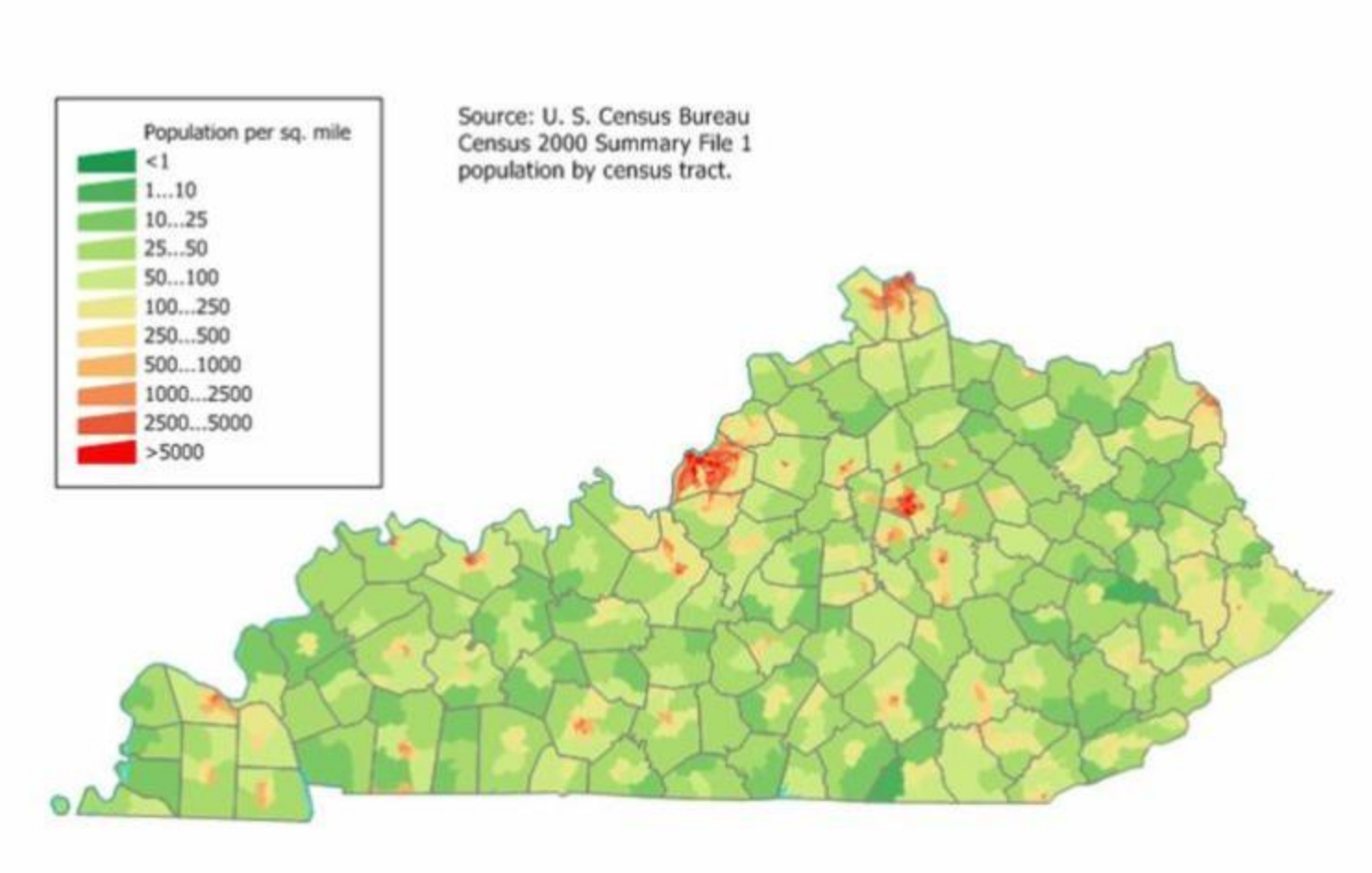
Population Density – IL



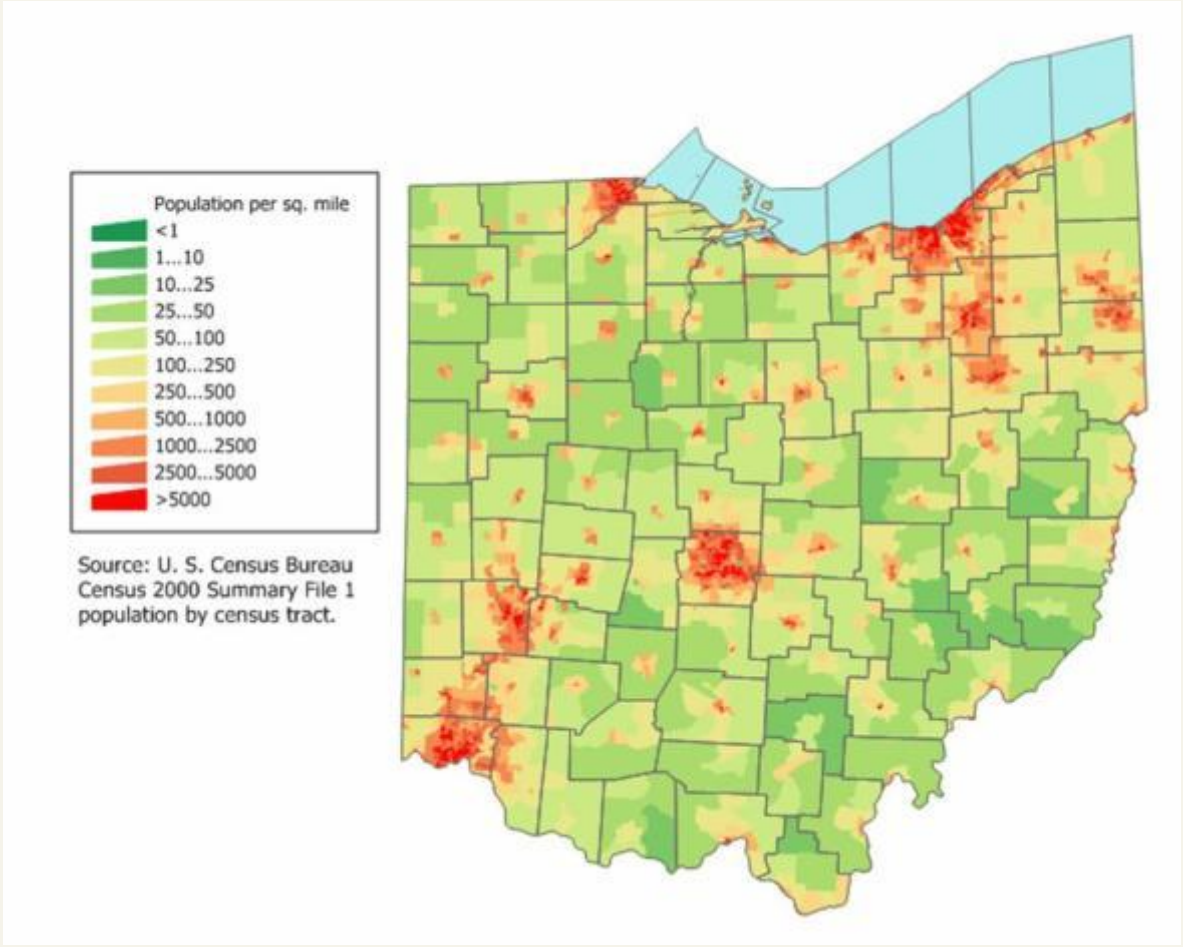
Population Density – IN



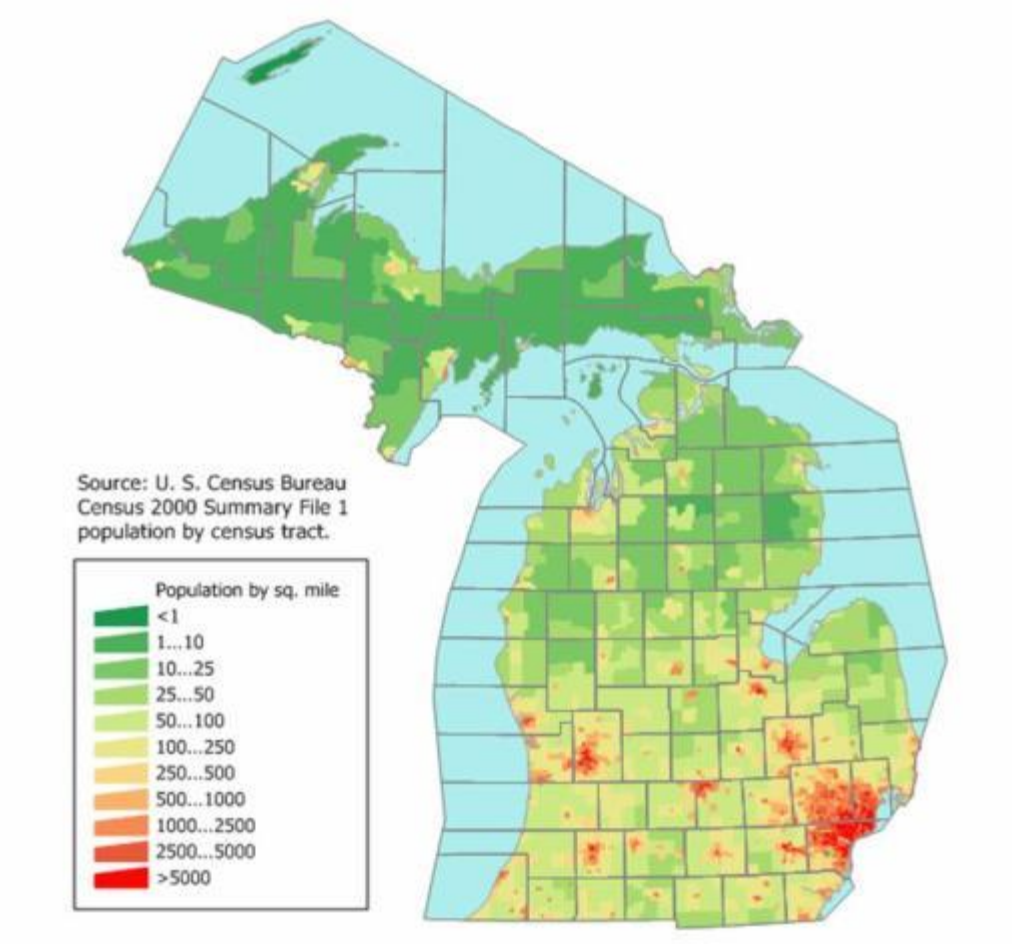
Population Density – KY



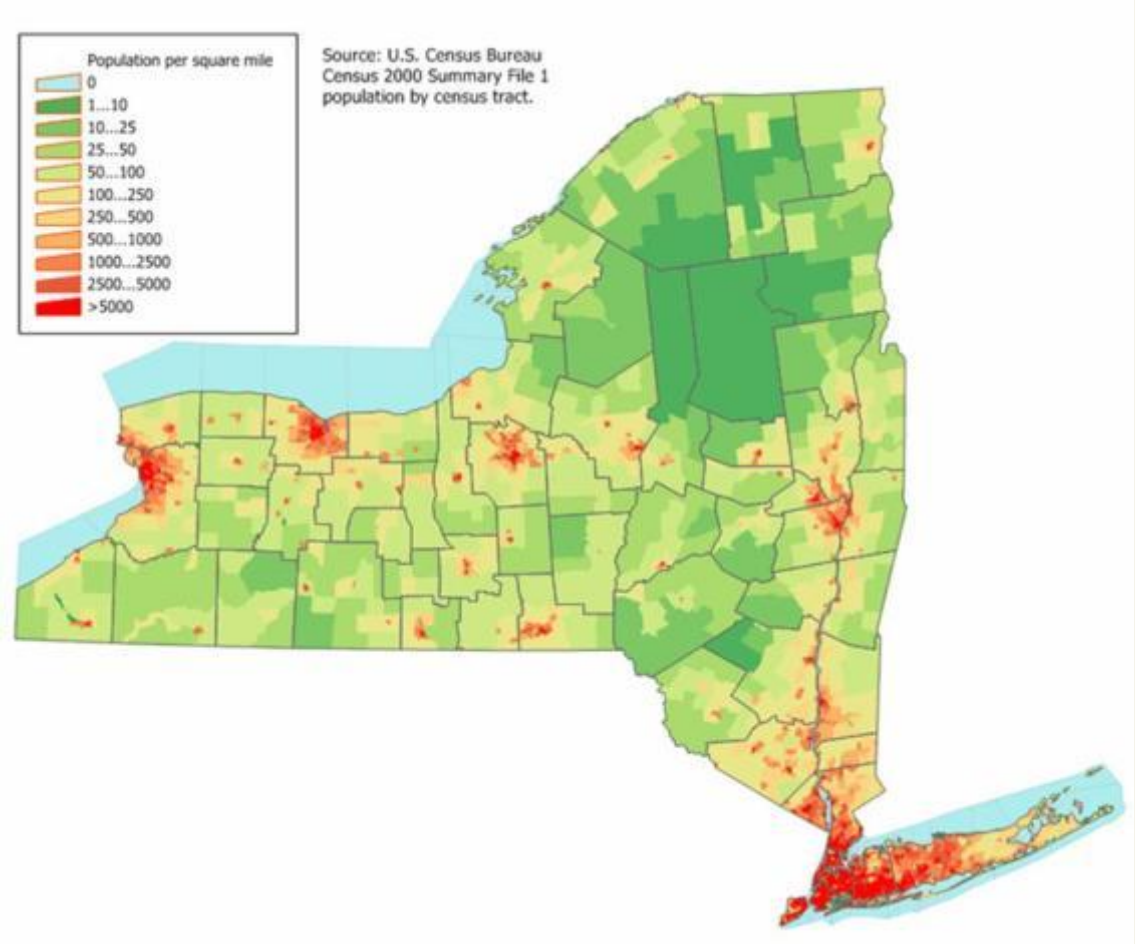
Population Density – OH



Population Density – MI



Population Density – NY

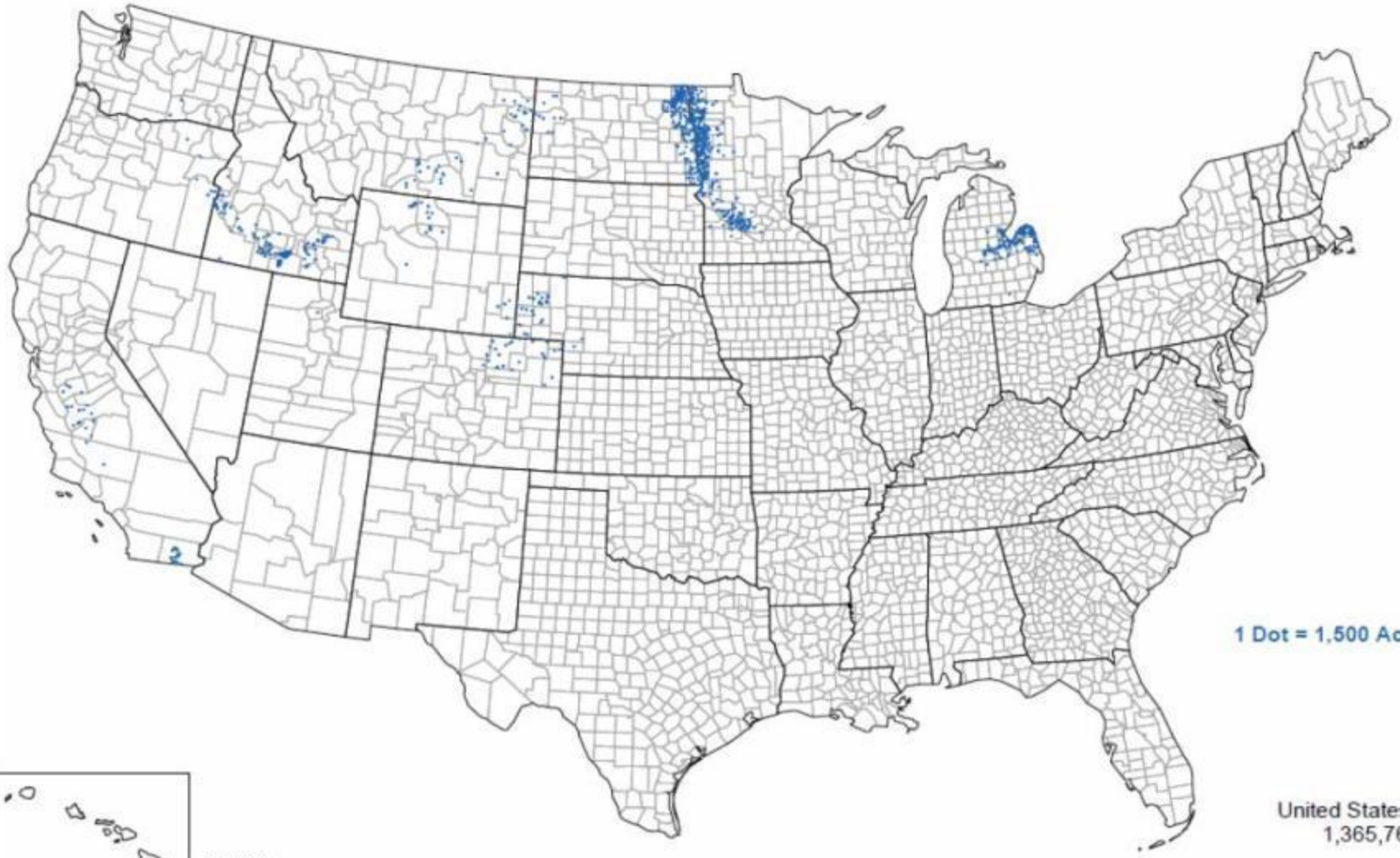


Human & Economic Geography

Agriculture

- #1 producer of crops on continent
- Half of US agricultural employment is in the Heartland
- Farm size increasing , farm population decreasing

Sugarbeets for Sugar, Harvested Acres: 2002



1 Dot = 1,500 Acres

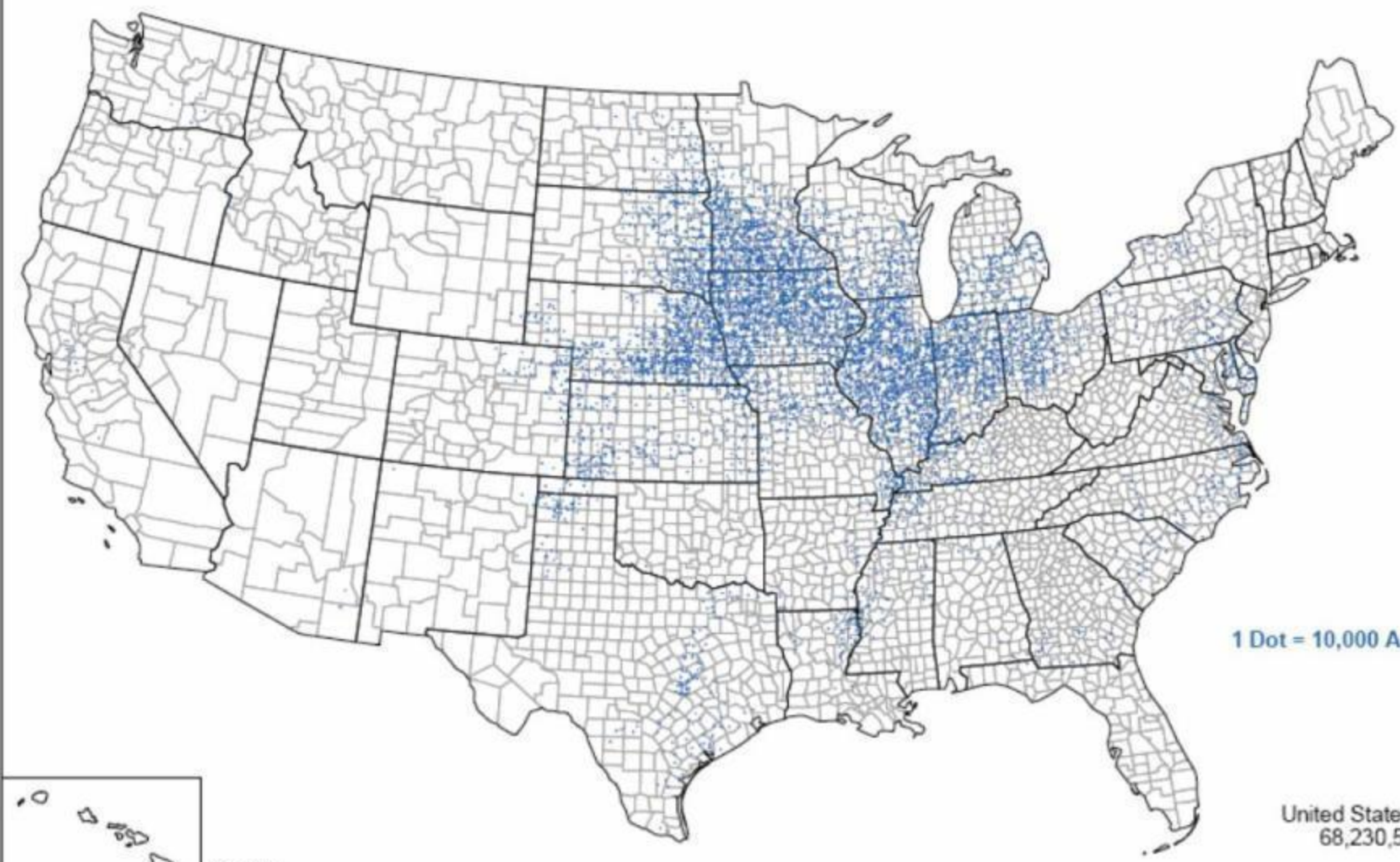
United States Total
1,365,769

02-M220
U.S.Department of Agriculture, National Agricultural Statistics Service

Corn

- Half of the world's output
- Perfect conditions
- Productivity increased over time
  - Genetic and technological improvements means crop rotation not necessary

Corn for Grain, Harvested Acres: 2002



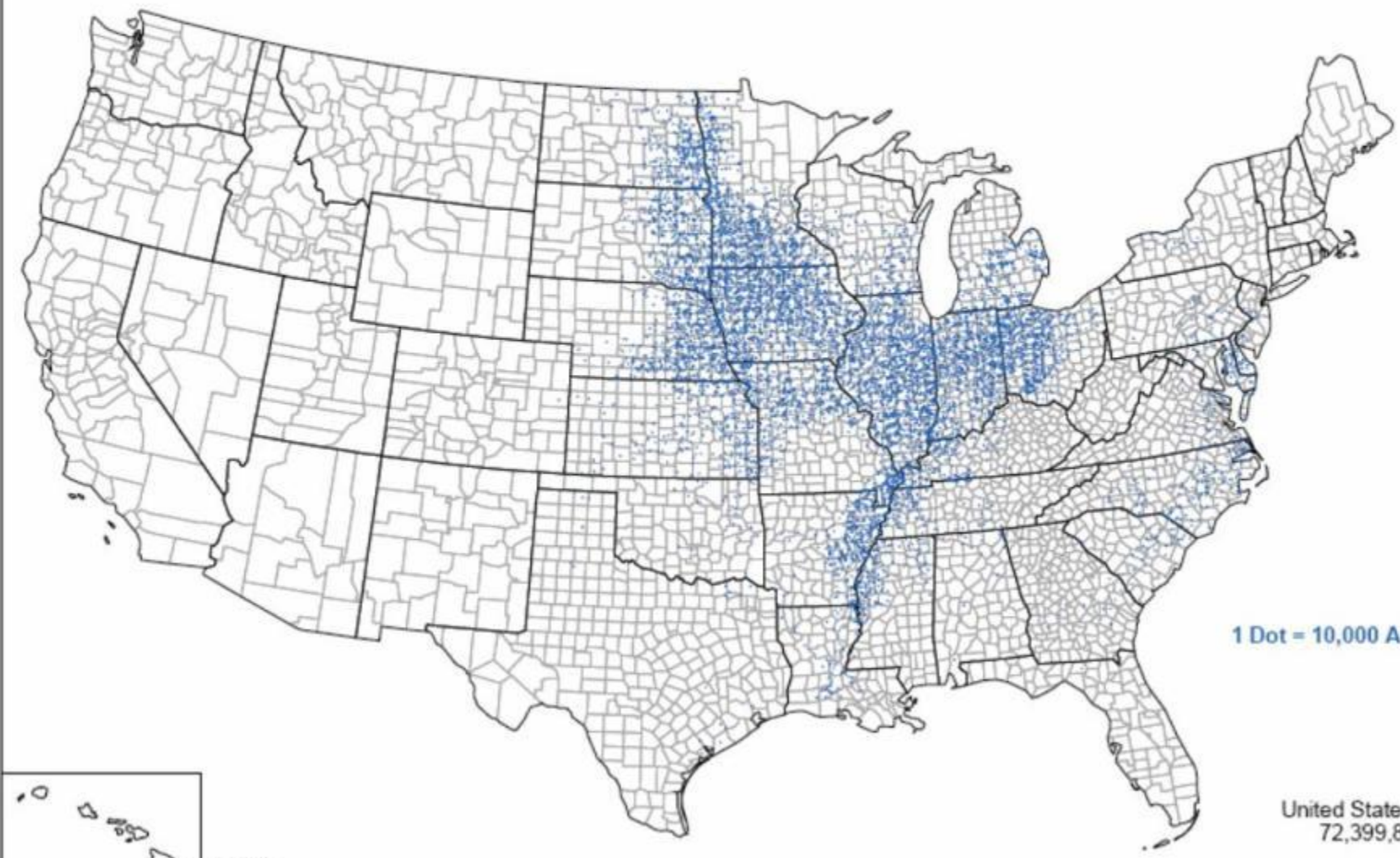
United States Total
68,230,523

02-M177
U.S.Department of Agriculture, National Agricultural Statistics Service

Soybeans

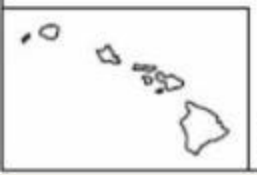
- Almost identical region to corn
- High yield per acre
- Increased dramatically in 20th century
- US now produces 50% of world crop
- All Canadian soybeans are grown north of Lake Erie

Soybeans for Beans, Harvested Acres: 2002



1 Dot = 10,000 Acres

United States Total
72,399,844

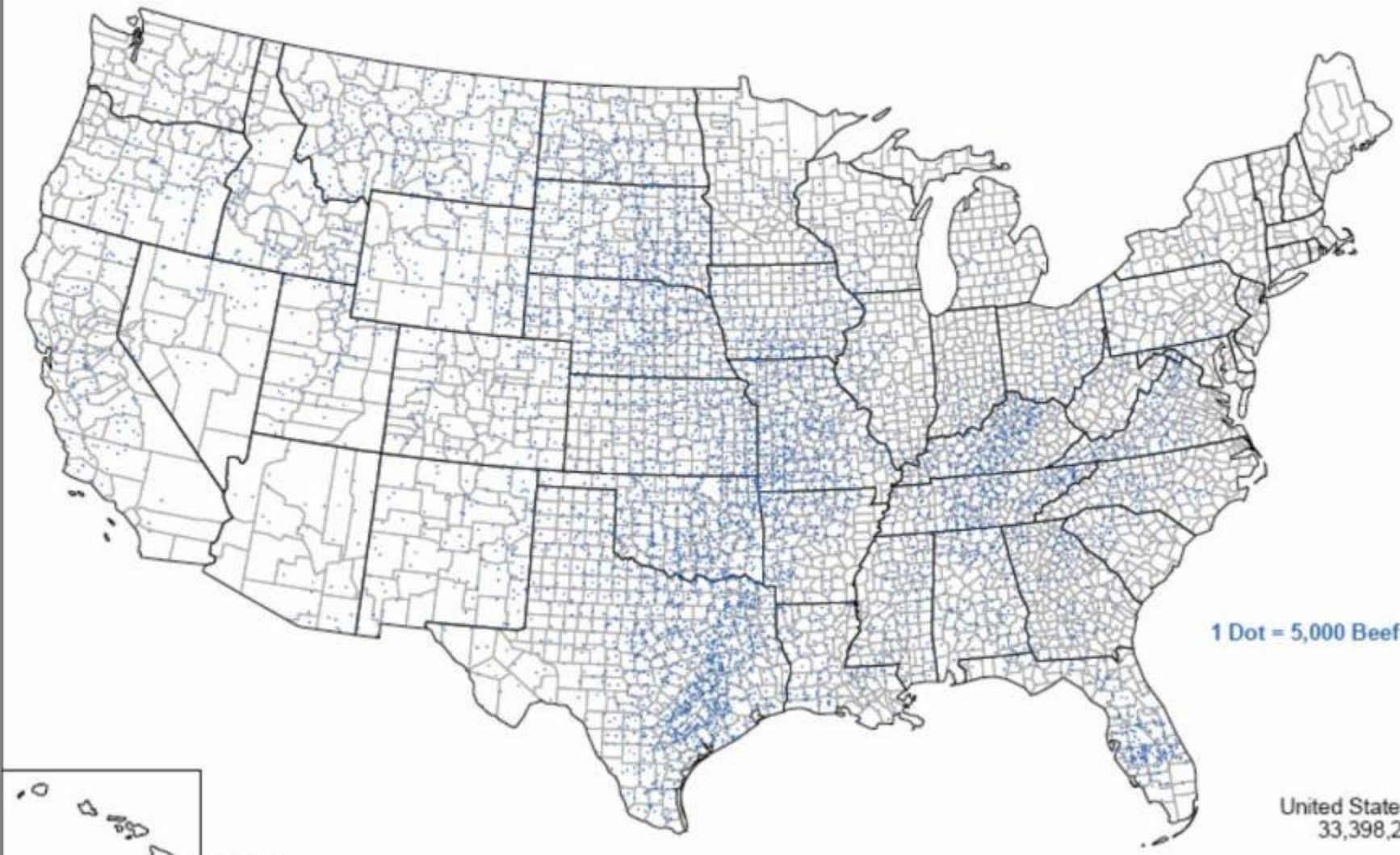


02-M211
U.S.Department of Agriculture, National Agricultural Statistics Service

Livestock

- Beef Cattle
  - More in western Heartland, older prairie
- Dairy Cattle
  - Wisconsin, Minnesota, western New York
  - Areas less suited for agriculture
- Hogs
  - Losing importance to southern states

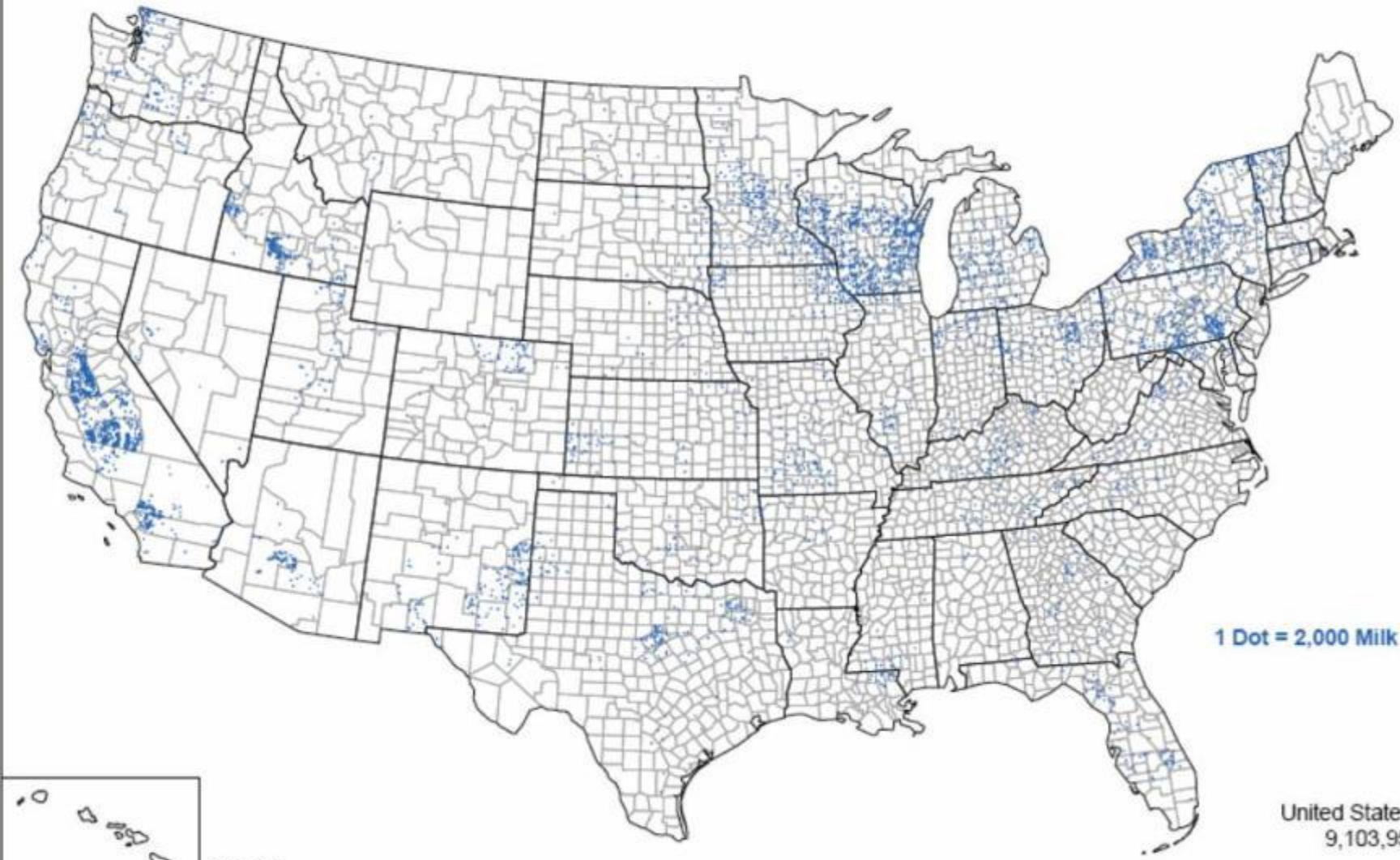
Beef Cows - Inventory: 2002



United States Total
33,398,271

02-M144
U.S.Department of Agriculture, National Agricultural Statistics Service

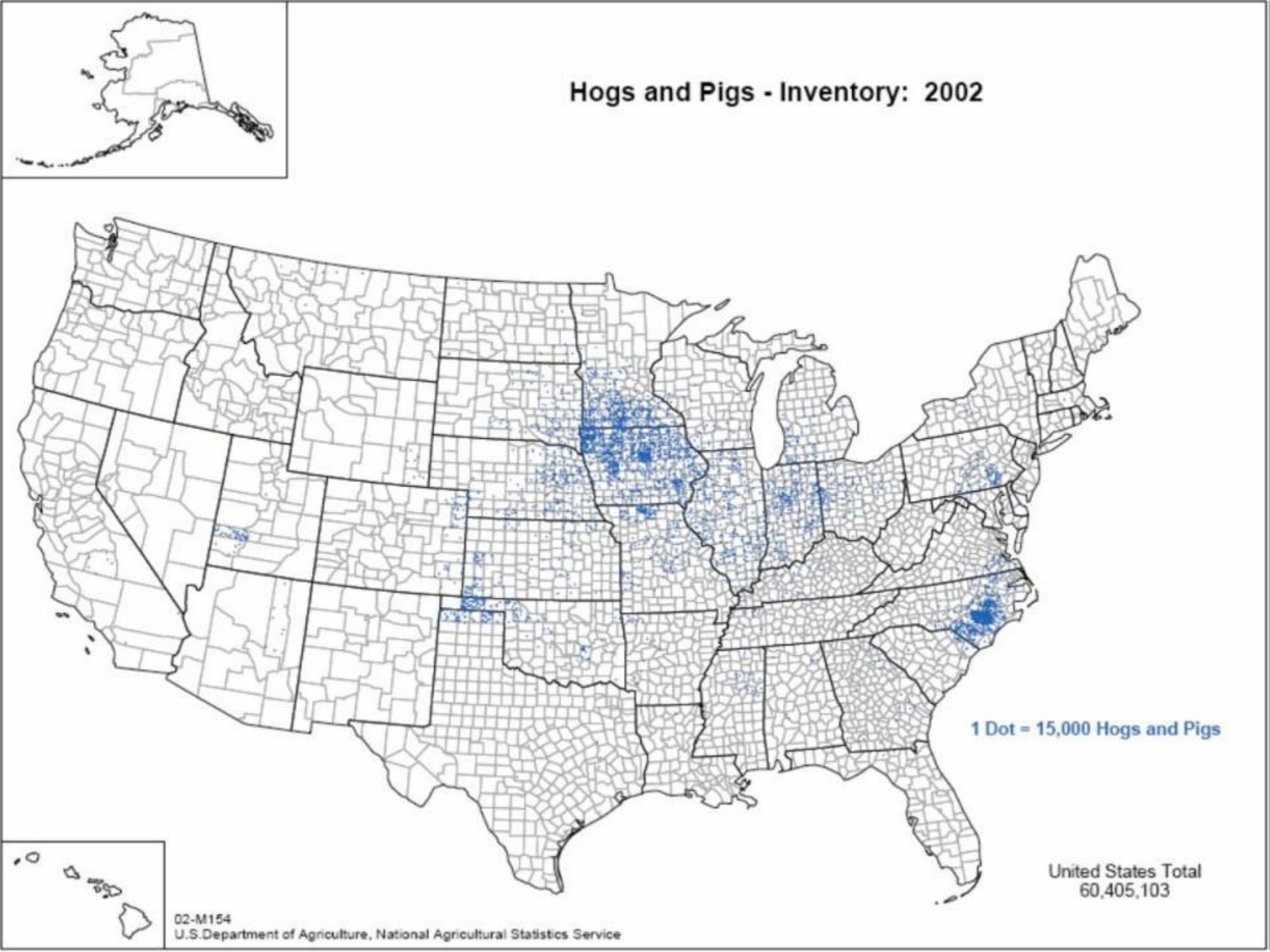
Milk Cows - Inventory: 2002



1 Dot = 2,000 Milk Cows

United States Total
9,103,959

02-M139
U.S.Department of Agriculture, National Agricultural Statistics Service

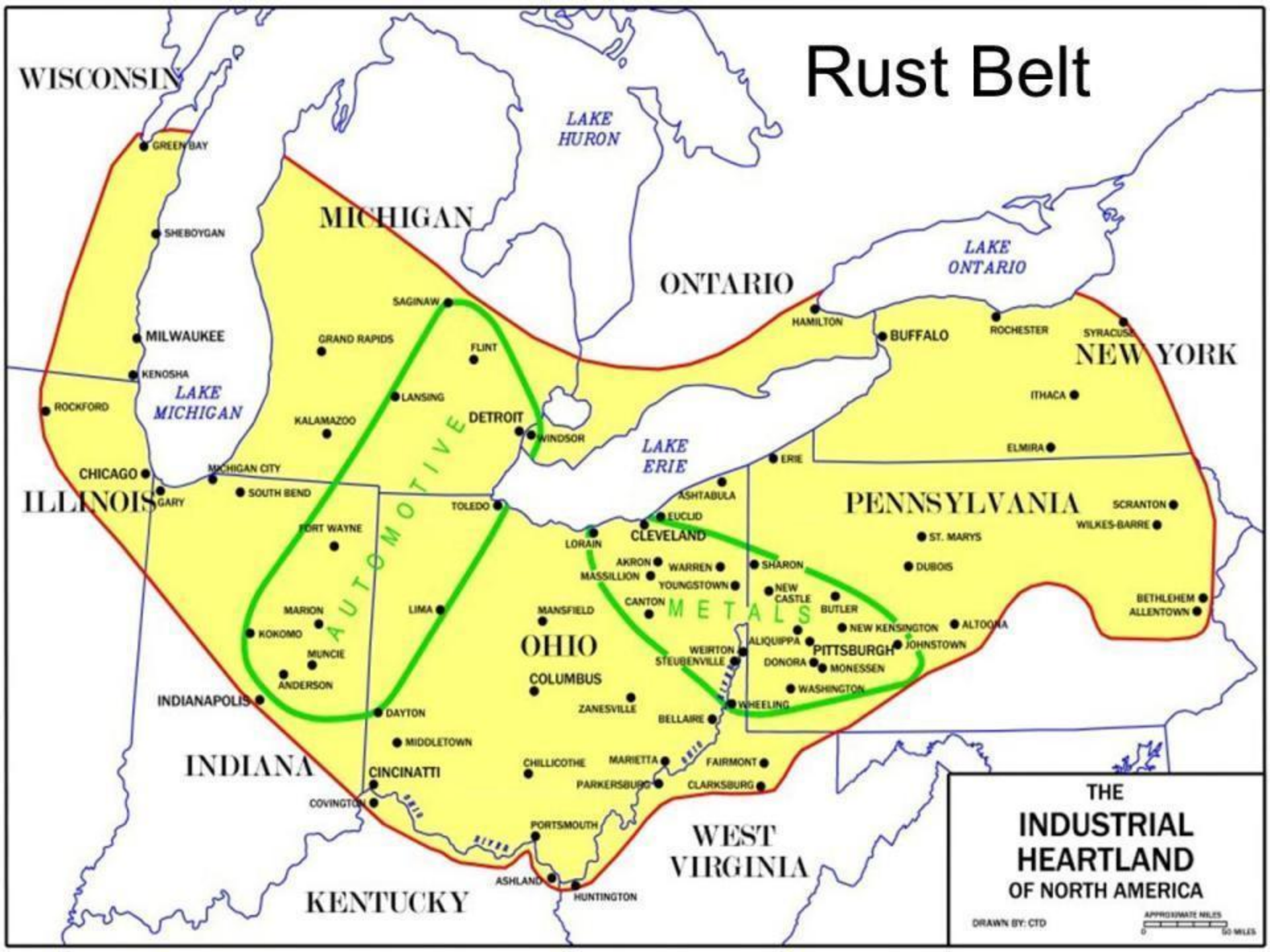

Hogs and Pigs - Inventory: 2002
1 Dot = 15,000 Hogs and Pigs
United States Total
60,405,103
02-M154
U.S.Department of Agriculture, National Agricultural Statistics Service

Mineral Industries

- Relatively lesser importance
- Some coal, natural gas, oil
  - Illinois, Kentucky, S. Indiana, parts of Ohio
  - 10% of US coal output
- Limestone
  - Indiana

Manufacturing

- Next to agriculture, mainstay of Heartland
- In severe decline across Midwest
- Most cities with some specialization
  - Cars in Detroit
  - Rubber in Akron
  - Beer in Milwaukee


Rust Belt
WISCONSIN
GREEN BAY
SHEBOYGAN
MILWAUKEE
KENOSHA
ROCKFORD
LAKE MICHIGAN
CHICAGO
GARY
ILLINOIS
MICHIGAN CITY
SOUTH BEND
FORT WAYNE
INDIANAPOLIS
MARION
KOKOMO
MUNCIE
ANDERSON
DAYTON
MIDDLETOWN
INDIANA
CINCINNATI
COVINGTON
OHIO RIVER
KENTUCKY
SAGINAW
GRAND RAPIDS
FLINT
LANSING
KALAMAZOO
DETROIT
WINDSOR
LAKE HURON
ONTARIO
LAKE ONTARIO
HAMILTON
BUFFALO
ROCHESTER
SYRACUSE
NEW YORK
ITHACA
ELMIRA
LAKE ERIE
ERIE
TOLEDO
LIMA
MANSFIELD
LORAIN
ASHTABULA
EUCLID
CLEVELAND
AKRON
WARREN
MASSILLION
YOUNGSTOWN
CANTON
SHARON
NEW CASTLE
BUTLER
DUBOIS
PENNSYLVANIA
SCRANTON
WILKES-BARRE
ST. MARYS
BETHLEHEM
ALLENTOWN
ALTOONA
NEW KENSINGTON
ALIQUIPPA
JOHNSTOWN
PITTSBURGH
WEIRTON
STEUBENVILLE
DONORA
MONESSEN
WASHINGTON
WHEELING
BELLAIRE
ZANESVILLE
COLUMBUS
CHILLICOTHE
MARIETTA
FAIRMONT
PARKERSBURG
CLARKSBURG
PORTSMOUTH
ASHLAND
HUNTINGTON
WEST VIRGINIA
AUTOMOTIVE
METALS
THE
INDUSTRIAL
HEARTLAND
OF NORTH AMERICA
DRAWN BY: CTD
APPROXIMATE MILES
0
50 MILES

Auto Industry

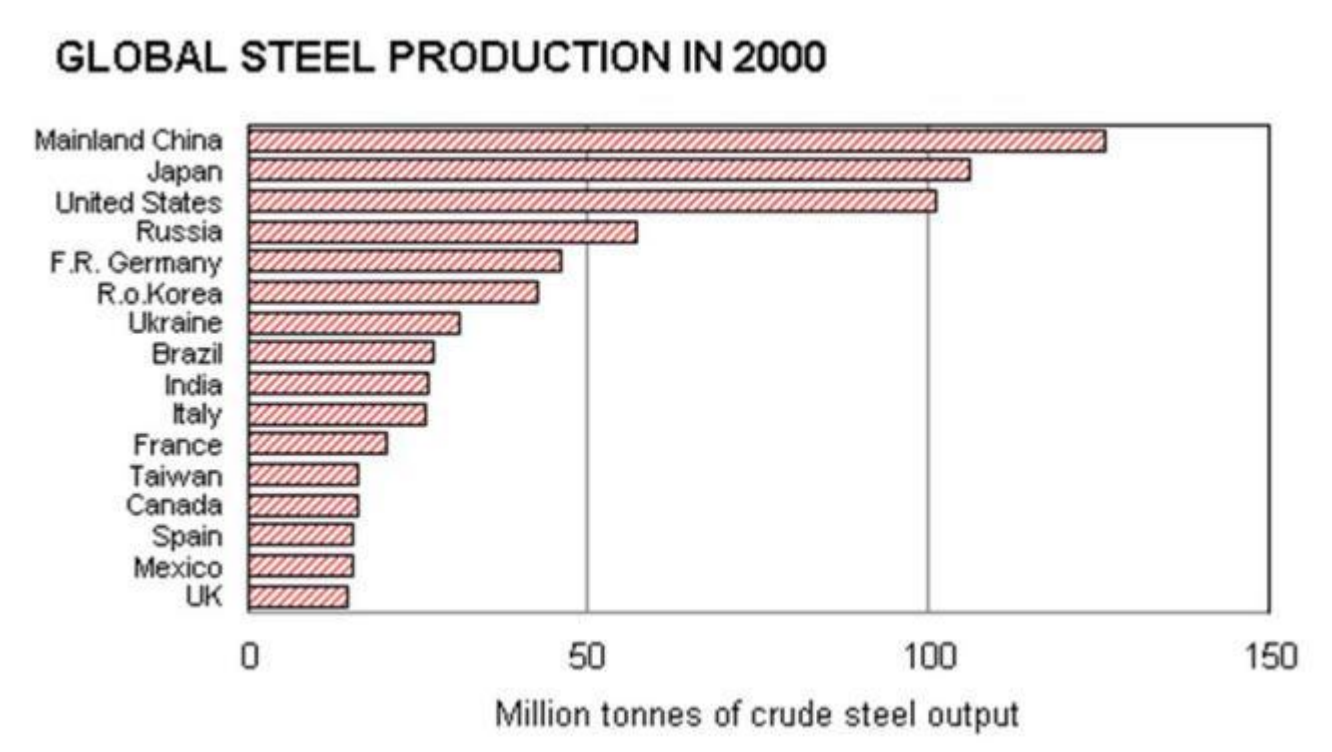
- Largest employer in the Heartland
  - 22% of Michigan's workforce (44.7B in wages)
  - 11% of Ohio's workforce
  - 10% of Kentucky's workforce
- All top-10 states are in this region, except California, though many jobs moved south
- 90% of Canadian auto jobs are in Ontario (Windsor #1)

Map 1

The New Globalized Auto Plant Corridor: Mexico City to Atlanta

Steel Industry

- 4 of top states: IL, IN, OH and MI
- Hamilton, Ontario, main steel center
- Significant decline due to foreign competition



Rust Belt

US Steel – Gary, IN

GM Transmission Plant – Muncie, IN
Closed in 2006

Rubber/Plastics Industry

- Ohio #1 state (100,000 workers)
- 1/3rd of nations rubber/plastics machinery
- Michigan #3, Illinois #4
- Shift over time from tire manufacturing to specialized rubber / plastics products

Transportation

- Important in original settlement
- Great Lakes/St. Lawrence
- Ohio/Missouri/Mississippi Rivers
- Flat terrain makes transportation easy
- Strategic location near center of country and population base makes region vital

Waterways

- Rivers
  - Made much more navigable with dams/locks.
  - All major cities developed along these rives.
- Canals
  - Built in 19th century as connectors between rivers.
  - Ohio and Erie canal dramatically transformed Ohio's economy.
  - Erie Canal in NY, is the world's most used inland canal.

The Ohio Canal System
Grand Rapids/
Providence Dams
Independence
Dam
Wabash &
Erie Canal
Miami and Erie Canal
Miami and Erie
Canal Office &
Grand Lake St. Marys
Indian Lake
Lake
Loramie
Sidney Feeder
Middletown
Hydraulic Dam
Cincinnati &
Whitewater
Columbus
Feeder
Ohio and Erie Canal
Buckeye Lake
Brecksville Dam
Ohio and Erie
Canal Office &
Portage Lakes
Penna. & Ohio
Canal
Guilford Lake
Walhonding
Canal
Six Mile Dam
Sandy
& Beaver
Canal
Hocking Canal
Map Key
Canals
Feeder Canals
State Capitol
Canal Reservoirs
Low Dams
Operating Facilities

Erie Canal

New York State canal system
NEW YORK
87
Lake Ontario
Oswego Canal
Oswego
Oneida Lake
Champlain Canal
Rochester
Little Falls
Syracuse
90
Buffalo
Erie Canal
Cayuga-Seneca Canal
Lock 16 Erie Canal
Albany
Seneca Lake
Cayuga Lake
81
88
Hudson River
Miles
40

Transportation

- Rails
  - Originally connected waterways
  - Took over prominence after Civil War
  - Recent consolidation: mostly for bulk materials (agricultural products, building materials)

Transportation

- Roads
  - Took over for the rails after mid 1900's
  - Earliest Toll Roads in Penn, Ohio, Indiana

Cities

- Many major metropolitan areas
  - 16 with over a million people
- Anchored by Chicago and Toronto
- Second tier of cities that are more regional centers
  - i.e. Cleveland, Detroit, Cincinnati, St. Louis, Kansas City, Minneapolis, Indianapolis
- Third tier cities
  - i.e. Akron, Rochester

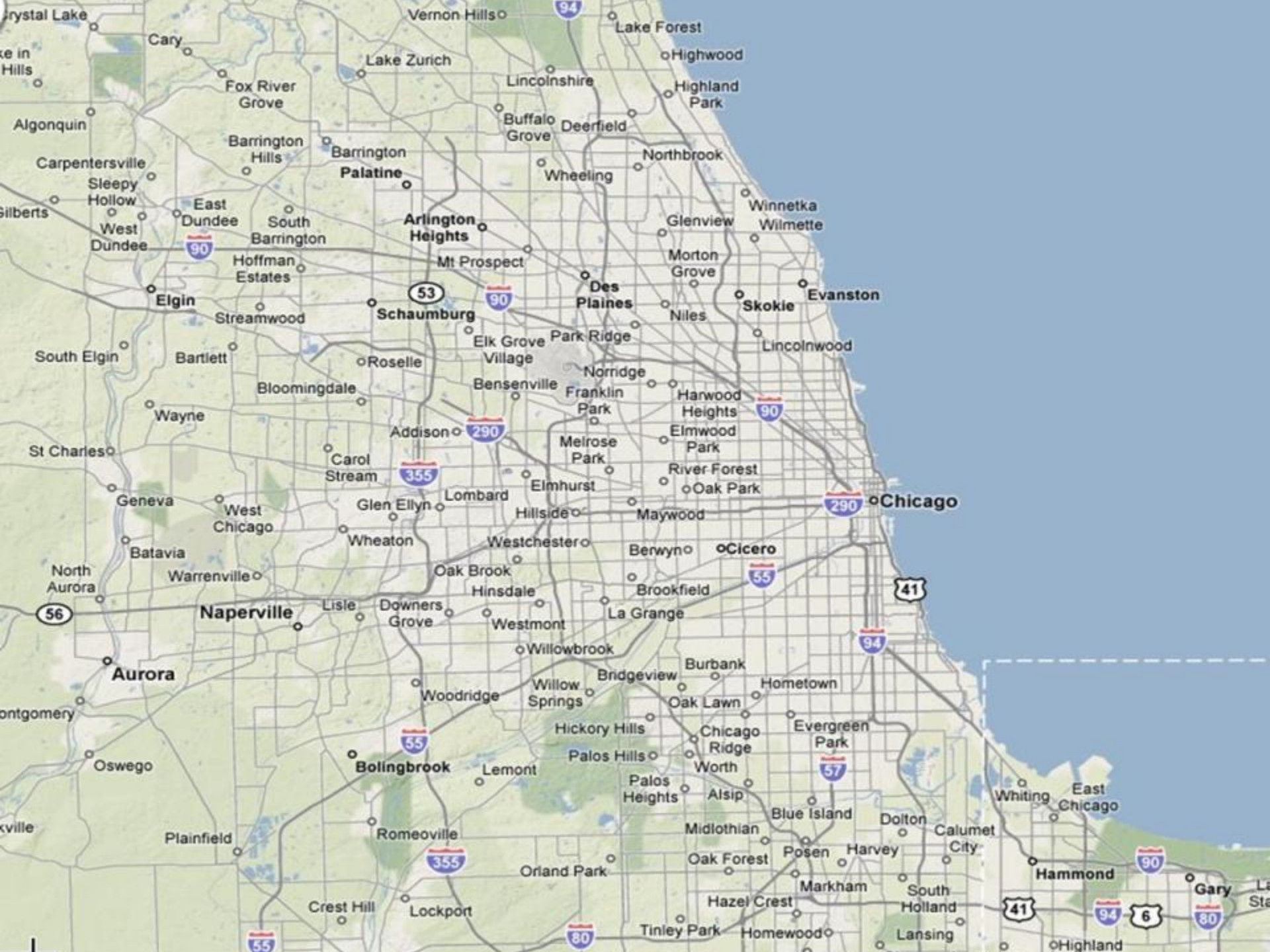
Chicago

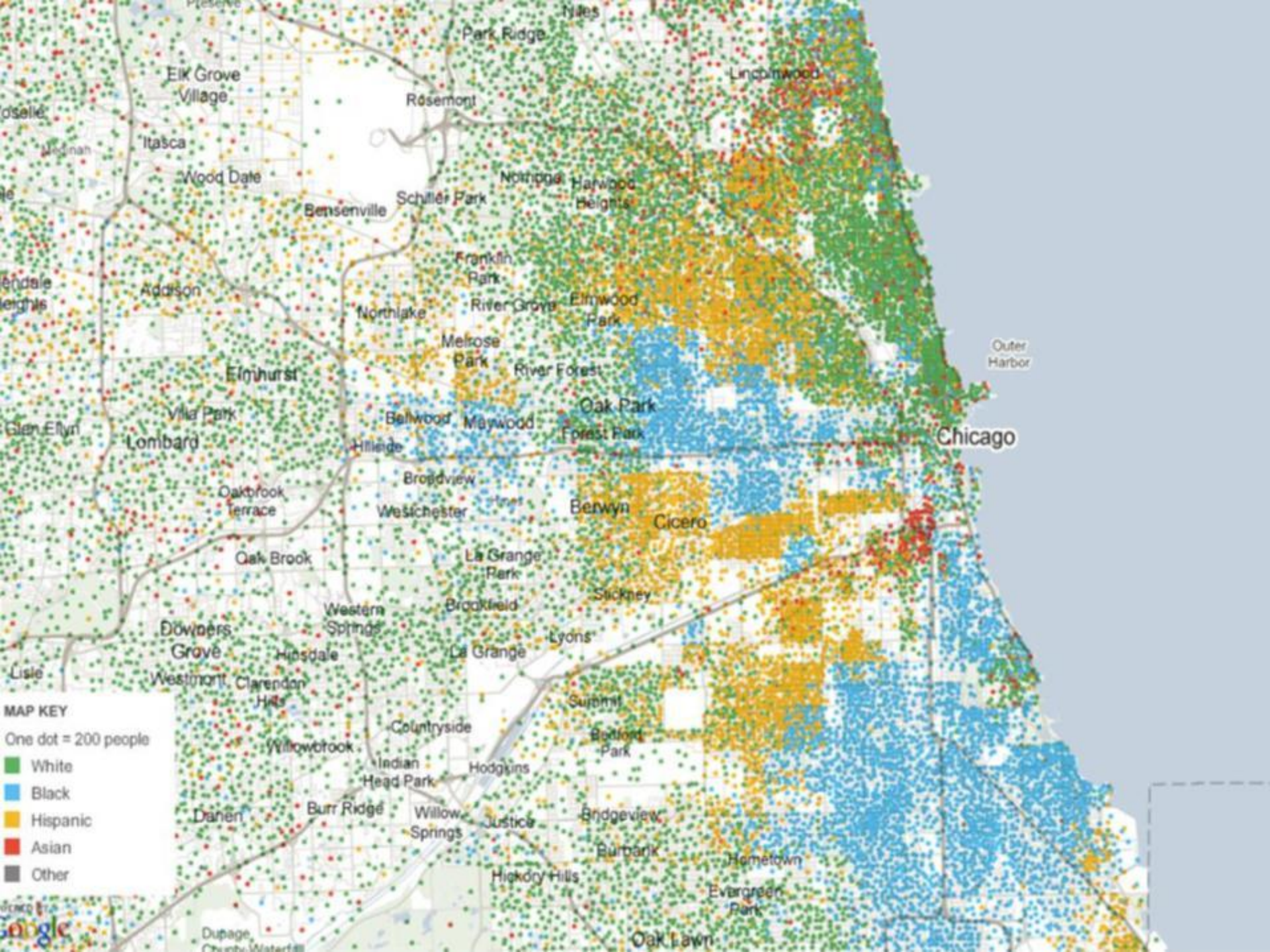
- “Second City”
- Metro area 8 million
- Incorporated in 1833
- Transportation hub
- Second largest manufacturing center, heavy machinery and industry

Chicago Stockyards

- Set up to facilitate transfers between east and west
  - First, live animals
  - Later refrigerated meat
- 475 acres, 130 miles of track
- In 1900, processed 82% of US meat
- Key immigrant job

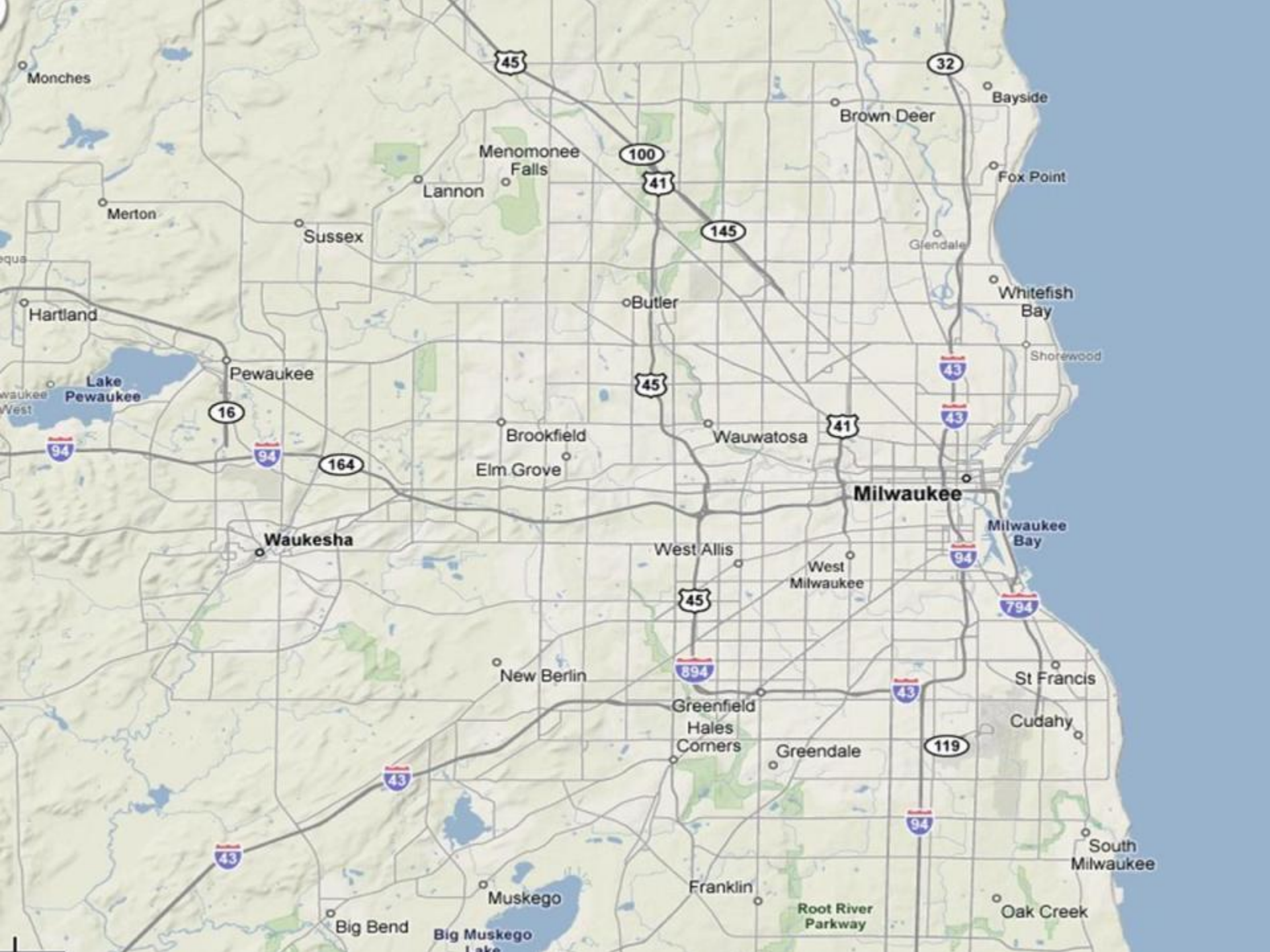
Chicago Region
Janesville
Elkhorn
Burlington
Lake Geneva
Beloit
Rockton
Roscoe
Machesney Park
Loves Park
Rockford
Belvidere
Crystal Lake
Carpentersville
Oregon
Rochelle
Malta
Dekalb
Ashton
St Charles
Elgin
Bartlett
Hoffman Estates
Palatine
Carol Stream
Wheaton
Naperville
Aurora
Amboy
Mendota
Plainfield
Bolingbrook
Romeoville
Joliet
Morris
Sturtevant
Racine
Kenosha
Pleasant Prairie
Antioch
Zion
Gurnee
Waukegan
Mundelein
Buffalo Grove
Northbrook
Glenview
Arlington Heights
Schaumburg
Skokie
Evanston
Addison
Elmhurst
Oak Park
Chicago
Downers Grove
Berwyn
Cicero
Oak Lawn
Orland Park
Tinley Park
Calumet City
Hammond
Gary
Chicago Heights
11
39
43
12
51
20
90
88
56
41
94
294
6

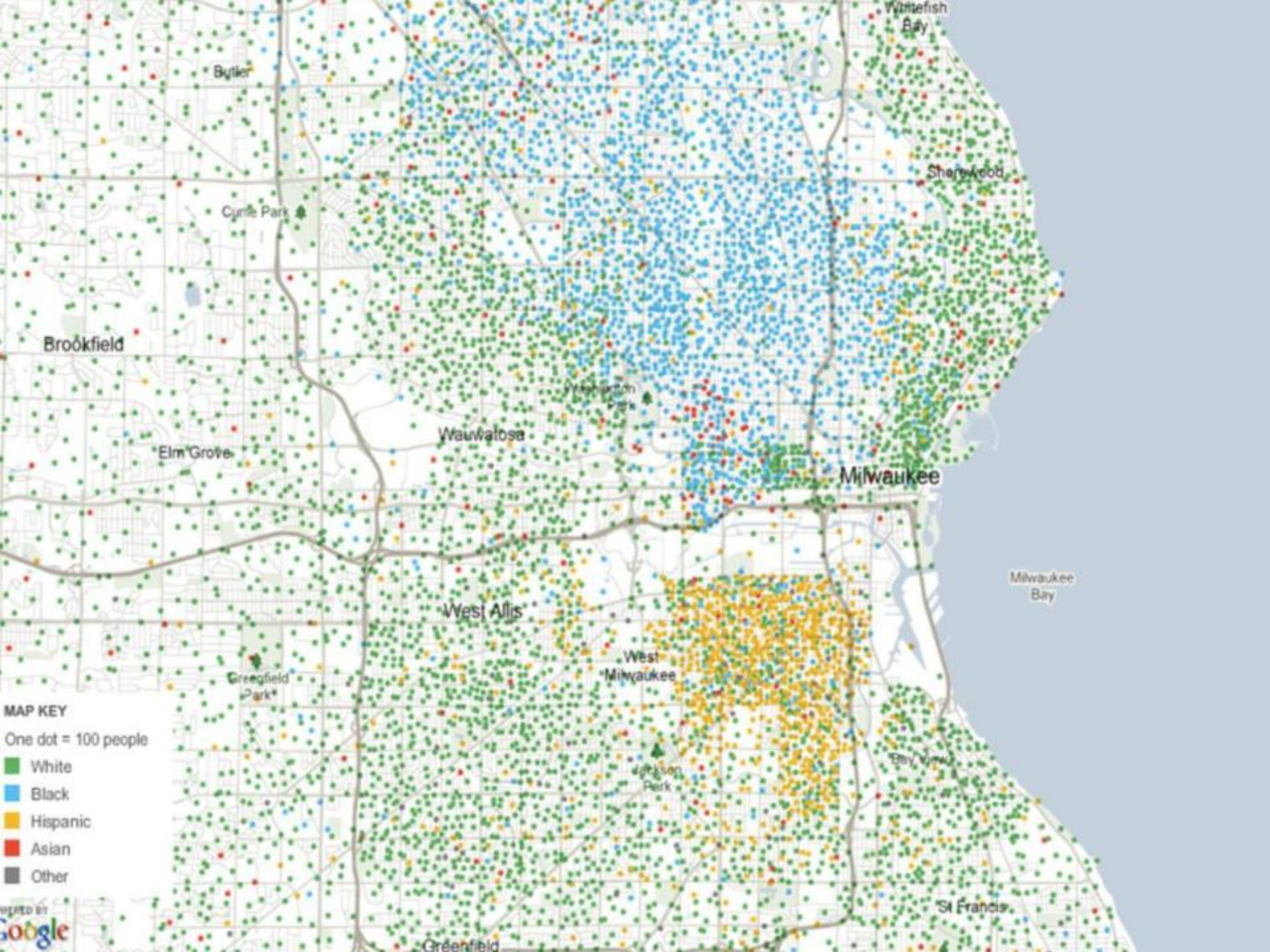

Crystal Lake
Cary
Vernon Hills
Lake Forest
Highwood
Lake Zurich
Lincolnshire
Highland Park
Fox River Grove
Buffalo Grove
Deerfield
Algonquin
Barrington Hills
Barrington
Palatine
Northbrook
Wheeling
Carpentersville
Sleepy Hollow
East Dundee
South Barrington
West Dundee
Arlington Heights
Glenview
Winnetka
Wilmette
Hoffman Estates
Mt Prospect
Morton Grove
Elgin
Des Plaines
Skokie
Evanston
Streamwood
Schaumburg
Niles
Elk Grove Village
Park Ridge
Lincolnwood
South Elgin
Bartlett
Roselle
Norridge
Bloomingdale
Bensenville
Franklin Park
Harwood Heights
Wayne
Addison
Melrose Park
Elmwood Park
St Charles
Carol Stream
River Forest
Elmhurst
Oak Park
Geneva
Glen Ellyn
Lombard
Hillside
Maywood
Chicago
West Chicago
Wheaton
Westchester
Berwyn
Cicero
Batavia
Oak Brook
North Aurora
Warrenville
Brookfield
Hinsdale
Naperville
Lisle
Downers Grove
La Grange
Westmont
Willowbrook
Aurora
Burbank
Bridgeview
Hometown
Woodridge
Willow Springs
Oak Lawn
Hickory Hills
Chicago Ridge
Evergreen Park
Oswego
Bolingbrook
Palos Hills
Lemont
Worth
Palos Heights
Alsip
Whiting
East Chicago
Blue Island
Dolton
Midlothian
Calumet City
Plainfield
Romeoville
Posen
Harvey
Oak Forest
Hammond
Orland Park
Markham
Gary
Hazel Crest
South Holland
Crest Hill
Lockport
Tinley Park
Homewood
Lansing
Highland


MAP KEY
One dot = 200 people
White
Black
Hispanic
Asian
Other
Park Ridge
Elk Grove Village
Rosemont
Itasca
Wood Dale
Bensenville
Schiller Park
Harwood Heights
Addison
Northlake
River Grove
Elmwood Park
Melrose Park
River Forest
Elmhurst
Oak Park
Villa Park
Bellwood
Maywood
Forest Park
Lombard
Hillside
Chicago
Broadview
Oakbrook Terrace
Westchester
Berwyn
Cicero
Oak Brook
La Grange Park
Brookfield
Stickney
Western Springs
Downers Grove
Hinsdale
Lyons
La Grange
Lisle
Westmont
Clarendon Hills
Summit
Countryside
Bedford Park
Willowbrook
Indian Head Park
Hodgkins
Burr Ridge
Willow Springs
Justice
Bridgeview
Burbank
Hometown
Hickory Hills
Evergreen Park
Oak Lawn
Outer Harbor

Milwaukee

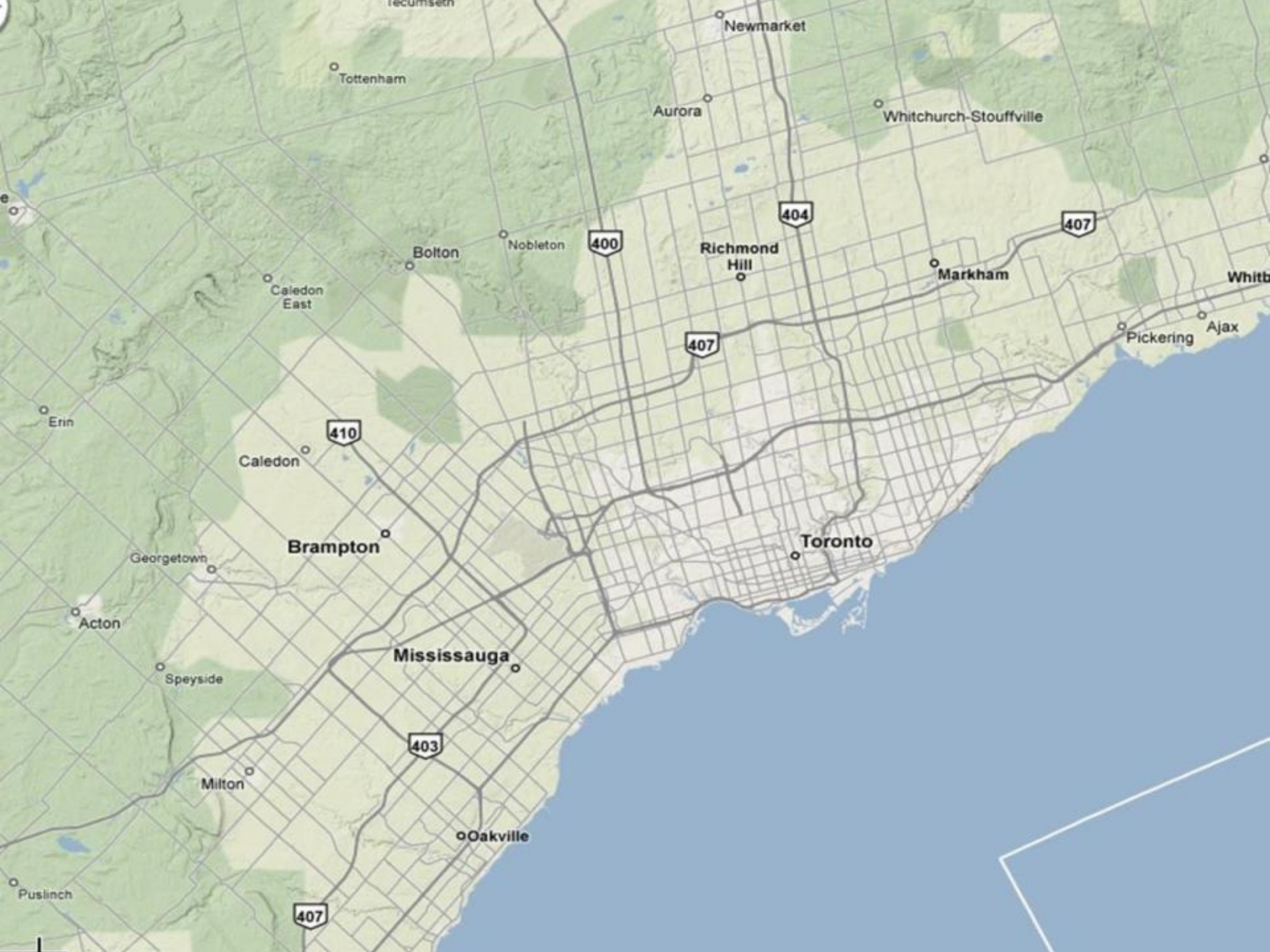
- The largest city in Wisconsin, and the cultural center for SE Wisconsin.
- Located within Chicago's sphere of influence.
- German &Polish population.
- Milwaukee was once the home to four of the world's largest breweries (Schlitz, Blatz, Pabst, and Miller).
- Health care is the largest growing sector of the economy.


Monches
Merton
Sussex
Lannon
Menomonee Falls
Hartland
Lake Pewaukee
Pewaukee
Waukesha
Brookfield
Elm Grove
Butler
Brown Deer
Bayside
Fox Point
Glendale
Whitefish Bay
Shorewood
Wauwatosa
Milwaukee
Milwaukee Bay
West Allis
West Milwaukee
New Berlin
Greenfield
Hales Corners
Greendale
St Francis
Cudahy
South Milwaukee
Franklin
Root River Parkway
Oak Creek
Muskego
Big Bend
Big Muskego Lake
45
32
100
41
145
43
16
94
164
894
794
119


Whitefish Bay
Butler
Sherwood
Curtis Park
Brookfield
Wauwatosa
Elm Grove
Milwaukee
Milwaukee Bay
West Allis
West Milwaukee
Greenfield Park
Jackson Park
St Francis
Greenfield
MAP KEY
One dot = 100 people
White
Black
Hispanic
Asian
Other

Toronto

- French settlement 1615
- Torched by US in 1813
- Premier financial and corporate center of Canada
- Over 4.5 million people (15% of Canada)
- Very diversified economy
- Major center within – Canada migration and international migration


Tecumseth
Newmarket
Tottenham
Aurora
Whitchurch-Stouffville
404
400
407
Bolton
Nobleton
Richmond Hill
Markham
Caledon East
Pickering
Ajax
Erin
410
Caledon
Brampton
Toronto
Georgetown
Acton
Mississauga
Speyside
403
Milton
Oakville
Puslinch
407

Ottawa

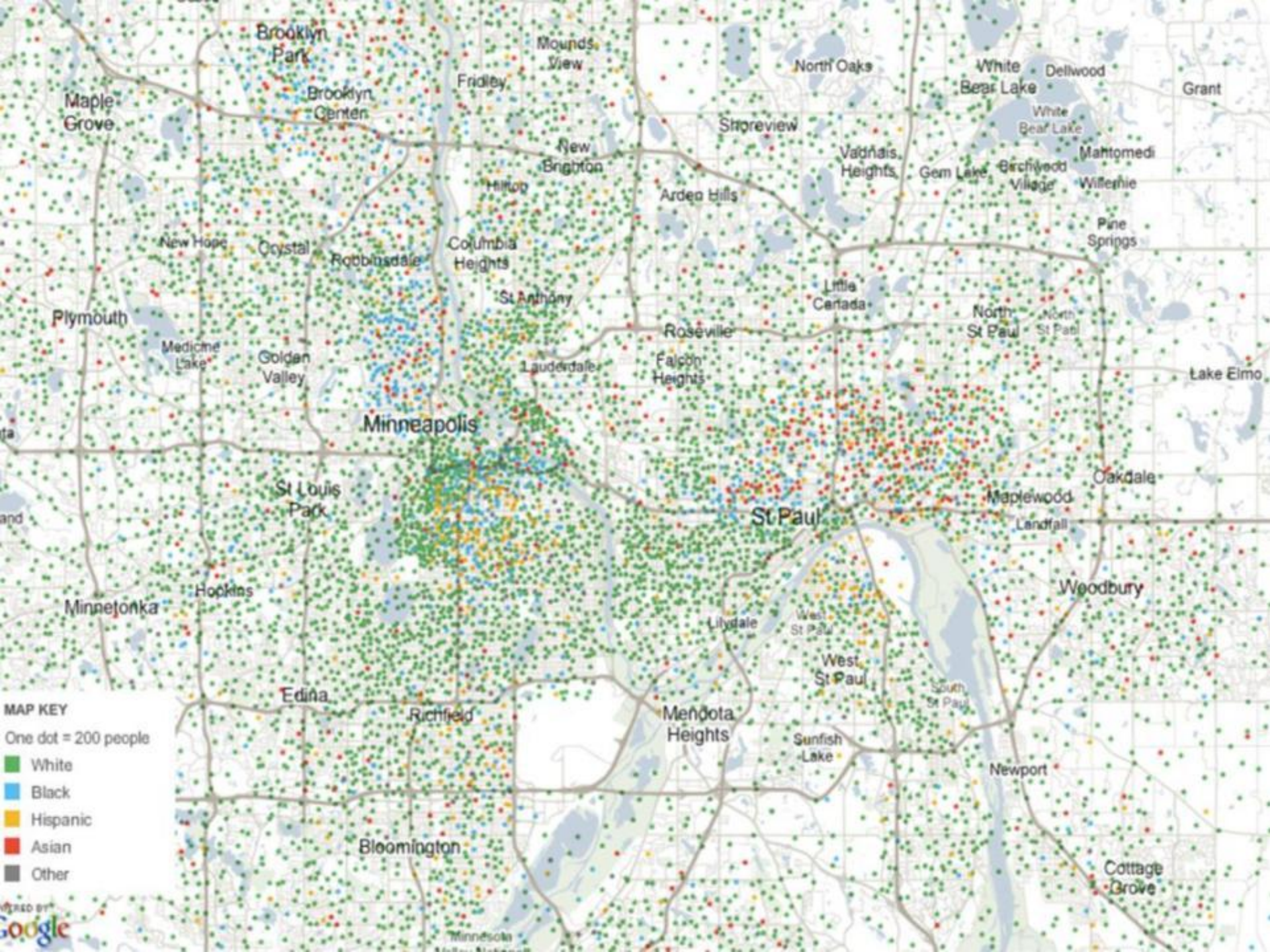
- Capital of Canada
- Ottawa is the second largest city in Ontario
- It was the only settlement of any significant size located right on the border of Canada East and Canada West making it a compromise between the two
- The War of 1812 – at the time, surrounded by a dense forest far from the border
- The gov't owned a parcel of land overlooking the Ottawa River

Riviere Gatineau
Cantley
Perkins
Buck
5
50
50
50
Chelsea
Old Chelsea
Limbour
Hollow Glen
Gatineau
148
5
174
Rideau River
Vanier
Ottawa River
Ottawa
Navan
417
417
Mer Blue Conservation Area
Pine Grove Forest Reserve
417
Marchhurst
417
Leitrim
Piperville
Stony Swamp Conservation Area
Fallowfield
416
Manotick Station
Greely

Minneapolis - St. Paul

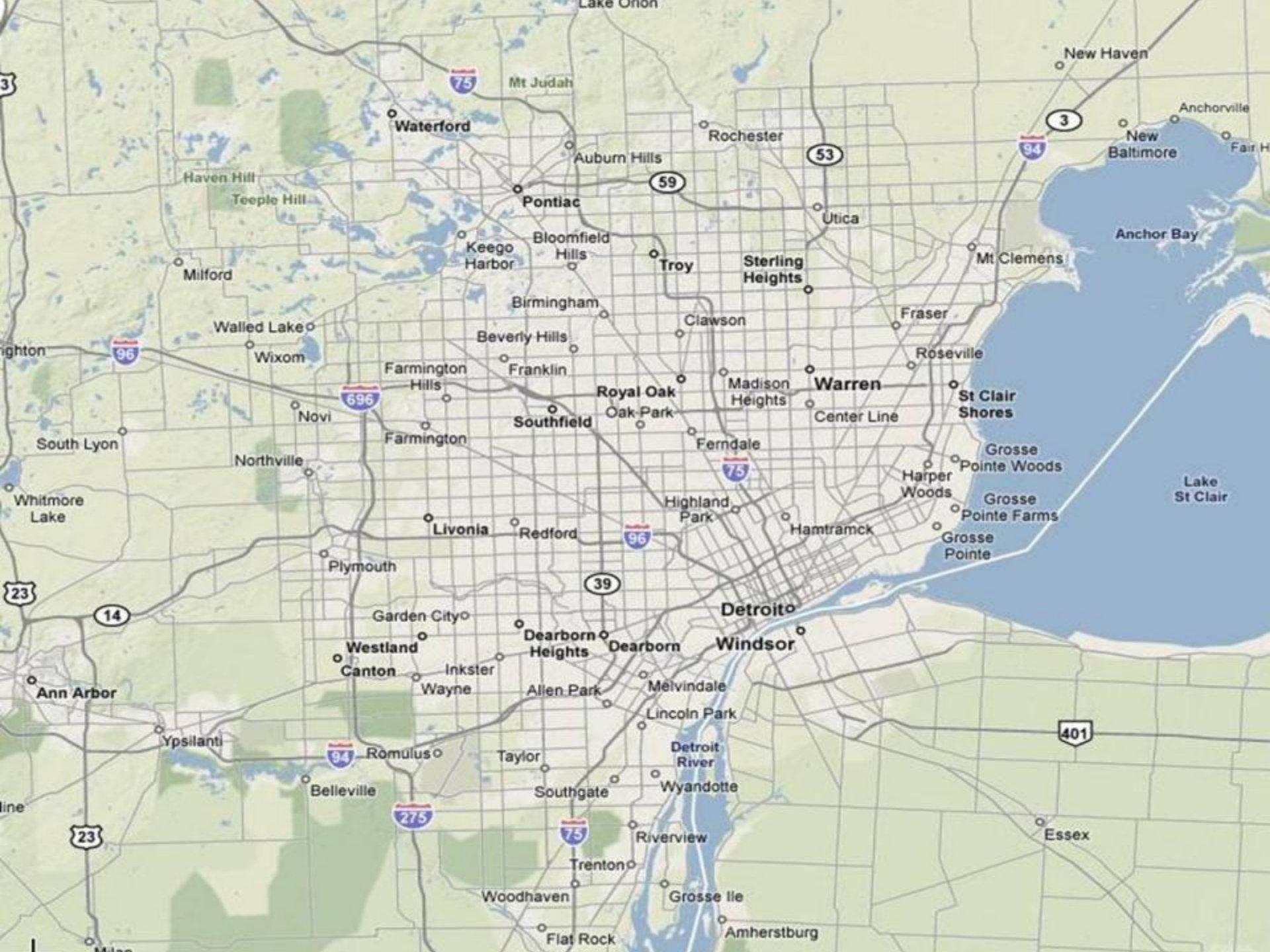
- The 'Twin Cities"
- Diverse cities
  - St. Paul: eastern, historic
  - Minneapolis: western, grid based
- Diversified employment
  - Food: General Mills, Pillsbury
  - Retail: Target, Best Buy, Mall of America
  - Hi-Tech: 3M
- One of the fastest growing regions
- Low unemployment rate

Monticello
Otsego
Albertville
101
Ramsey
Andover
Ham Lake
35
Forest Lake
Saint Croix River
St Michael
Anoka
35W
Rogers
52
Dayton
Coon Rapids
Champlin
Blaine
Hugo
Hanover
Circle Pines
35E
Corcoran
610
Spring Lake Park
10
Osseo
North Oaks
Maple Grove
Mounds View
Rockford
52
Brooklyn Park
Fridley
Shoreview
White Bear Lake
Grant
494
Arden Hills
Stillwater
Loretto
New Hope
Columbia Heights
Little Canada
Vadnais Heights
Delano
Medina
Crystal
694
Plymouth
Golden Valley
Roseville
Maplewood
Bayport
Maple Plain
North St Paul
Minneapolis
Long Lake
394
12
Lake Elmo
Wayzata
Watertown
Minnetrista
Orono
St Louis Park
94
12
95
Hudso
Mound
Hopkins
St Paul
Lakeland
Lake Minnetonka
Minnetonka
35E
Bissels Mounds
St Bonifacius
Mendota Heights
West St Paul
South St Paul
Woodbury
Afton
Excelsior
Edina
Eden Prairie
5
Richfield
494
St Paul Park
Chanhassen
Waconia
35W
Inver Grove Heights
Cottage Grove
Chaska
169
Burnsville
Shakopee
Cologne
Carver
Savage
Apple Valley
Prescott
Prior Lake
Rosemount
Hastings
Mississippi River
Jordan
Lakeville
Farmington


Brooklyn Park
Mounds View
North Oaks
White Bear Lake
Dellwood
Grant
Maple Grove
Brooklyn Center
Fridley
Shoreview
New Brighton
Vadnais Heights
Gem Lake
Birchwood Village
Mahtomedi
Willernie
White Bear Lake
Hilltop
Arden Hills
Pine Springs
New Hope
Crystal
Robbinsdale
Columbia Heights
St Anthony
Little Canada
North St Paul
Plymouth
Medicine Lake
Golden Valley
Roseville
Lauderdale
Falcon Heights
Lake Elmo
Minneapolis
St Louis Park
St Paul
Oakdale
Maplewood
Landfall
Woodbury
Hopkins
Minnetonka
Lilydale
West St Paul
Edina
Richfield
Mendota Heights
Sunfish Lake
Newport
Bloomington
Cottage Grove
MAP KEY
One dot = 200 people
White
Black
Hispanic
Asian
Other
Google

Detroit

- 3rd largest manufacturing center in the US
- Auto industry
  - Top 3 employers
  - Ford over 60,000 people
- Largest Arab-American community
- City center in decline
  - has lost over 1 million people
- Metro area over 4 million people



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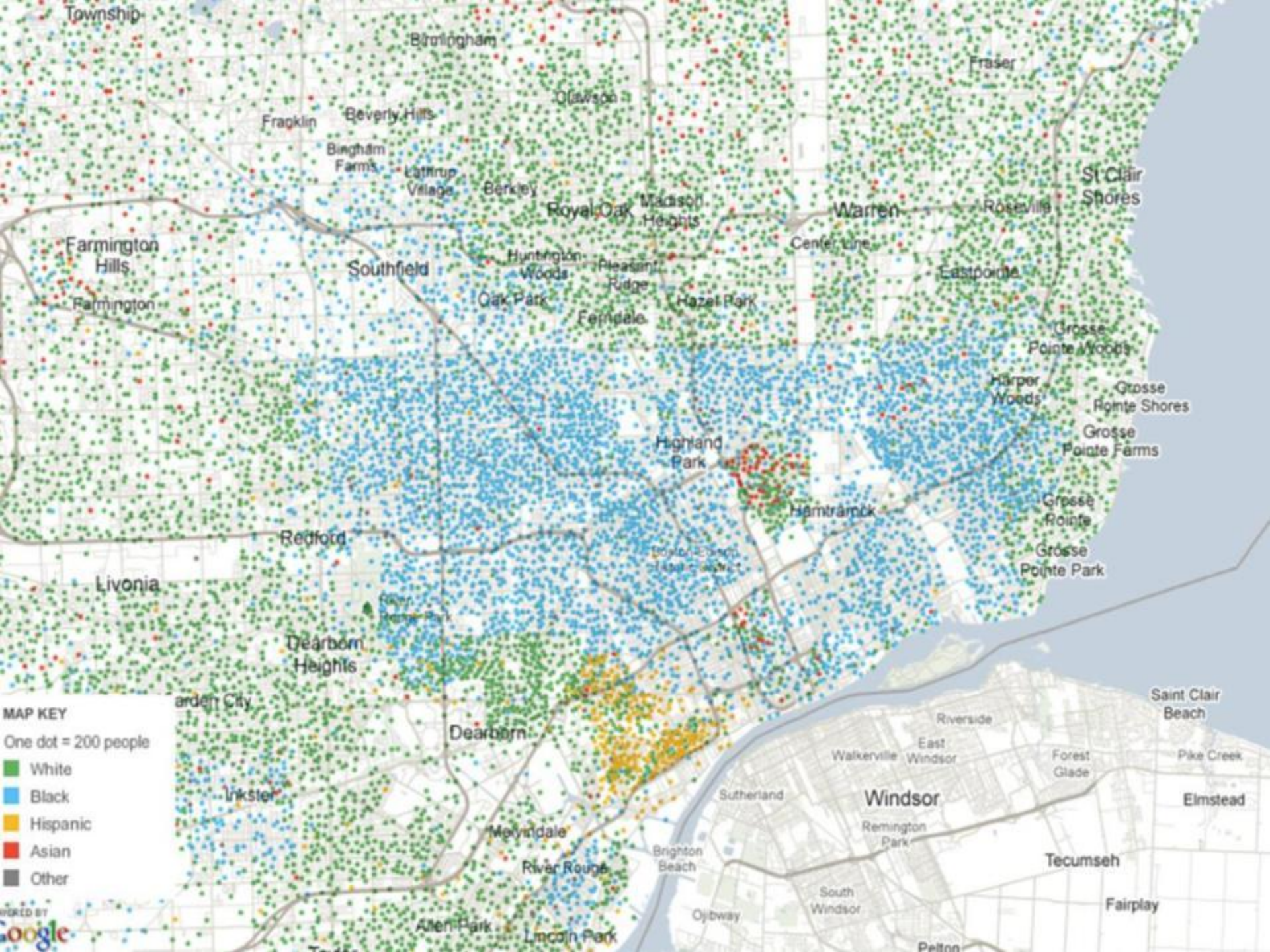
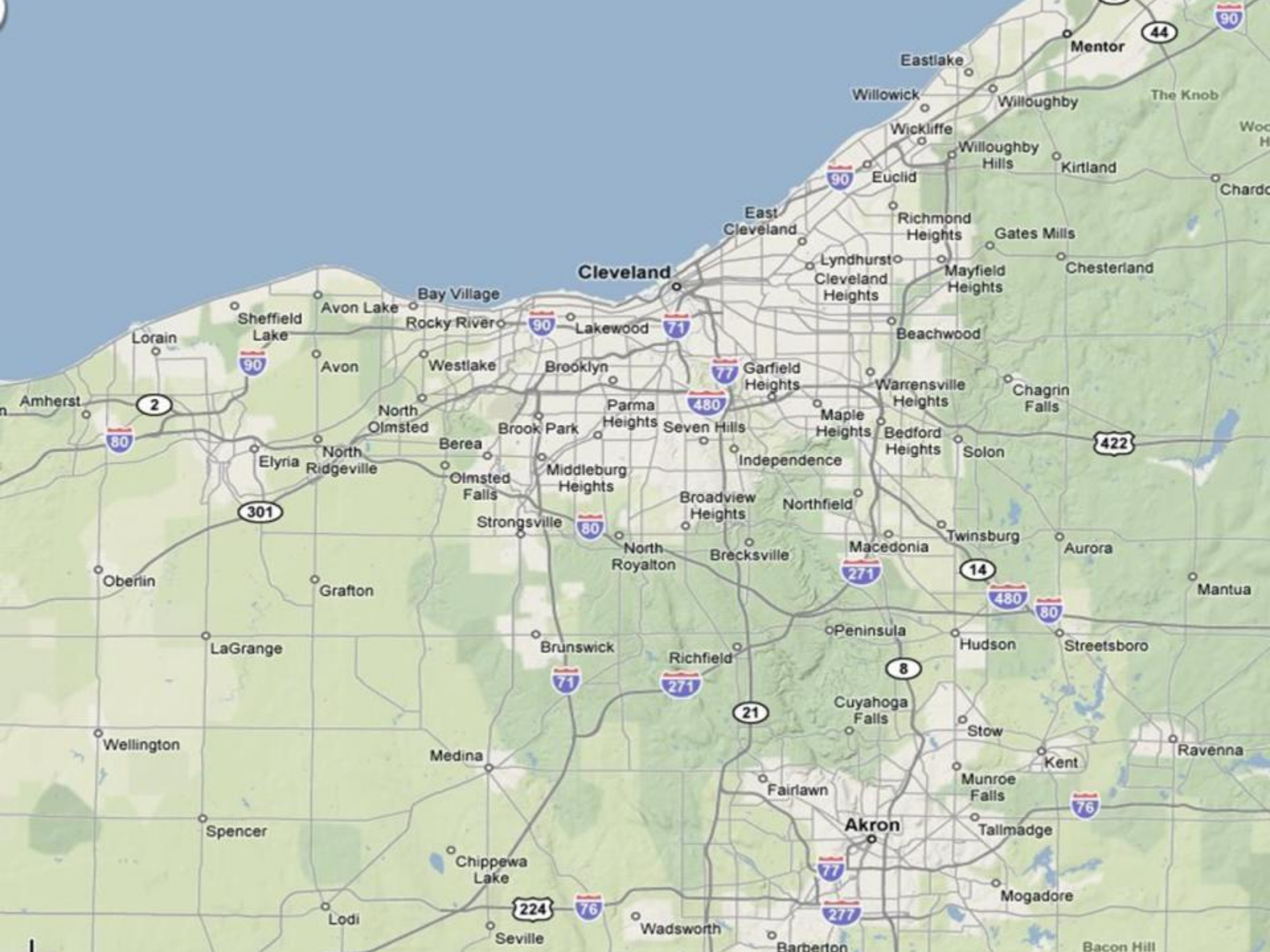
New Haven
Mt Judah
Waterford
Rochester
Anchorville
New Baltimore
Auburn Hills
Haven Hill
Teeple Hill
Pontiac
Utica
Anchor Bay
Keego Harbor
Bloomfield Hills
Troy
Sterling Heights
Mt Clemens
Milford
Birmingham
Fraser
Walled Lake
Clawson
Beverly Hills
Wixom
Roseville
Farmington Hills
Franklin
Royal Oak
Madison Heights
Warren
St Clair Shores
Novi
Southfield
Oak Park
Center Line
South Lyon
Farmington
Ferndale
Grosse Pointe Woods
Northville
Harper Woods
Lake St Clair
Whitmore Lake
Highland Park
Grosse Pointe Farms
Livonia
Redford
Hamtramck
Grosse Pointe
Plymouth
Detroit
Garden City
Dearborn Heights
Dearborn
Windsor
Westland
Canton
Inkster
Wayne
Ann Arbor
Allen Park
Melvindale
Lincoln Park
Ypsilanti
Romulus
Taylor
Detroit River
Belleville
Southgate
Wyandotte
Riverview
Essex
Trenton
Woodhaven
Grosse Ile
Flat Rock
Amherstburg


Township
Birmingham
Fraser
Clawson
Beverly Hills
Franklin
Bingham Farms
Lathrup Village
Berkley
Royal Oak
Madison Heights
Warren
Roseville
St Clair Shores
Center Line
Eastpointe
Farmington Hills
Farmington
Southfield
Huntington Woods
Pleasant Ridge
Oak Park
Ferndale
Hazel Park
Grosse Pointe Woods
Harper Woods
Grosse Pointe Shores
Grosse Pointe Farms
Highland Park
Hamtramck
Grosse Pointe
Grosse Pointe Park
Redford
Livonia
Dearborn Heights
Dearborn
Inkster
Melvindale
River Rouge
Allen Park
Lincoln Park
Saint Clair Beach
Riverside
Walkerville
East Windsor
Forest Glade
Pike Creek
Sutherland
Windsor
Elmstead
Remington Park
Brighton Beach
Tecumseh
South Windsor
Ojibway
Fairplay
Pelton
MAP KEY
One dot = 200 people
White
Black
Hispanic
Asian
Other
Google

Cleveland

- 2nd largest city in Ohio (Columbus #1)
- It was founded in 1796 near the mouth of the Cuyahoga River
- Became a manufacturing center do to its proximity of canals and railroad lines
- Cleveland is an emerging area for biotechnology and fuel cell research


Mentor
Eastlake
Willowick
Willoughby
The Knob
Wickliffe
Willoughby Hills
Kirtland
Euclid
East Cleveland
Richmond Heights
Gates Mills
Lyndhurst
Cleveland Heights
Mayfield Heights
Chesterland
Cleveland
Bay Village
Avon Lake
Sheffield Lake
Rocky River
Lakewood
Beachwood
Lorain
Avon
Westlake
Brooklyn
Garfield Heights
Warrensville Heights
Chagrin Falls
Amherst
North Olmsted
Parma Heights
Brook Park
Seven Hills
Maple Heights
Bedford Heights
Solon
Berea
Elyria
North Ridgeville
Olmsted Falls
Middleburg Heights
Independence
Broadview Heights
Northfield
Strongsville
North Royalton
Brecksville
Macedonia
Twinsburg
Aurora
Oberlin
Grafton
Mantua
LaGrange
Brunswick
Richfield
Peninsula
Hudson
Streetsboro
Cuyahoga Falls
Stow
Wellington
Medina
Kent
Ravenna
Munroe Falls
Fairlawn
Spencer
Akron
Tallmadge
Chippewa Lake
Mogadore
Lodi
Seville
Wadsworth
Barberton
Bacon Hill
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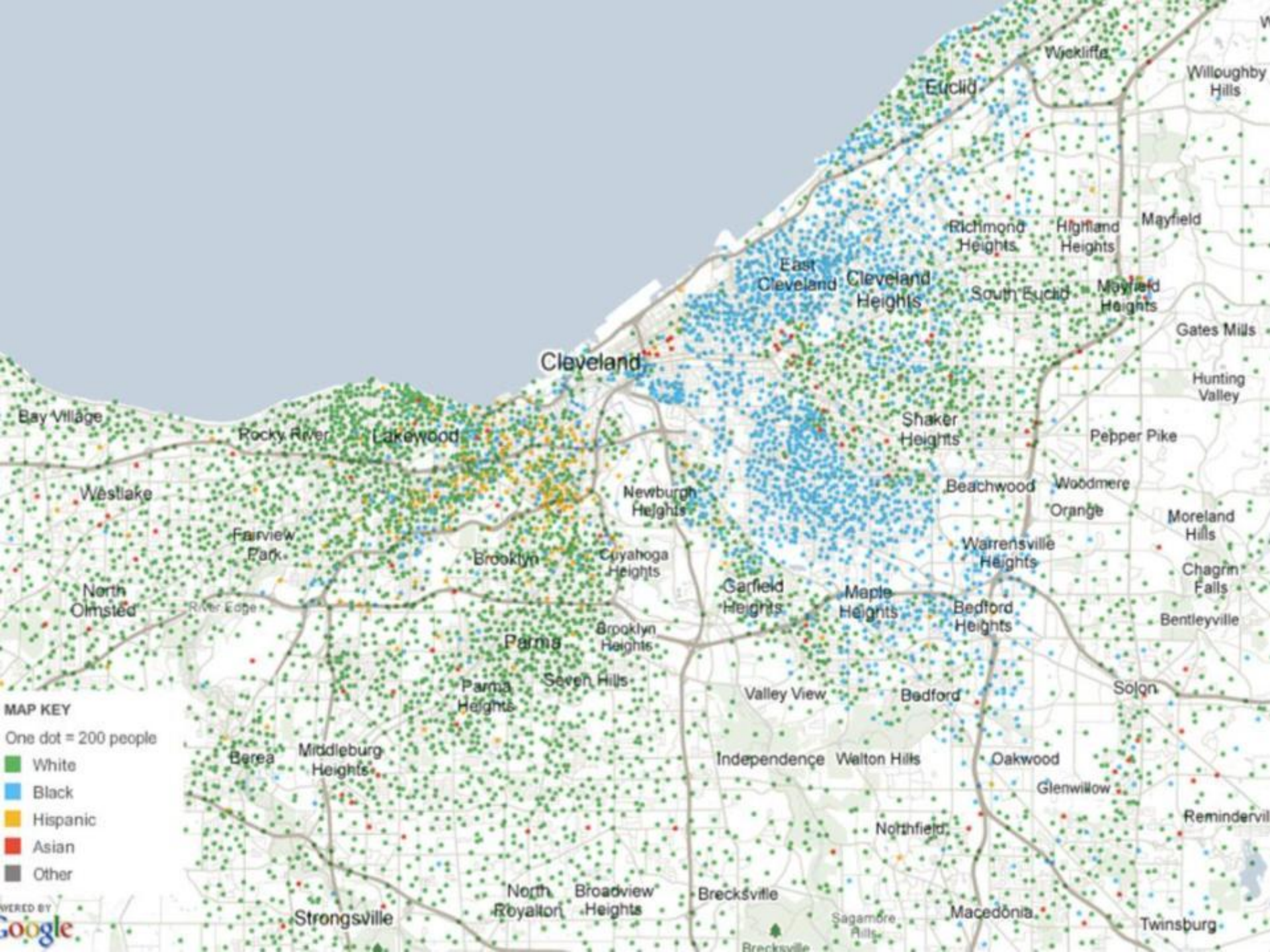
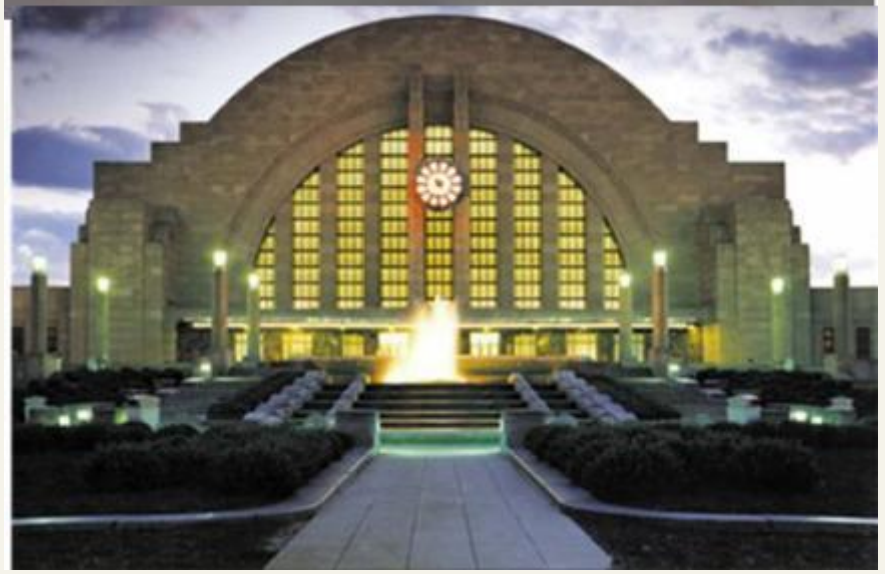

Cleveland
Euclid
Wickliffe
Willoughby Hills
Richmond Heights
Highland Heights
Mayfield
East Cleveland
Cleveland Heights
South Euclid
Mayfield Heights
Gates Mills
Hunting Valley
Shaker Heights
Pepper Pike
Bay Village
Rocky River
Lakewood
Westlake
Newburgh Heights
Beachwood
Woodmere
Orange
Moreland Hills
Fairview Park
Brooklyn
Cuyahoga Heights
Warrensville Heights
Chagrin Falls
North Olmsted
River Edge
Garfield Heights
Maple Heights
Bedford Heights
Bentleyville
Brooklyn Heights
Parma
Seven Hills
Parma Heights
Valley View
Bedford
Solon
Berea
Middleburg Heights
Independence
Walton Hills
Oakwood
Glenwillow
Northfield
Remindervil
North Royalton
Broadview Heights
Brecksville
Strongsville
Sagamore Hills
Macedonia
Twinsburg
MAP KEY
One dot = 200 people
White
Black
Hispanic
Asian
Other
Google

Cincinnati

- 3rd largest city in Ohio
- Cincinnati is considered to have been the first major American boomtown
- Before the Civil War, Cincinnati was a border town between the slave and non-slave states
- Cincinnati is home to major corporations such as Procter & Gamble and Kroger



Fairfield
Ross
Pleasant Run
Forest Park
Springdale
Sharonville
Loveland
Twenty Mile Stand
Loveland Park
New Haven
Northgate
Greenhills
Evendale
Hazelwood
Lincoln Heights
Blue Ash
Mt Healthy
Wyoming
Reading
Groesbeck
Lockland
Dillonvale
White Oak
North College Hill
Kenwood
Deer Park
Elmwood Place
Golf Manor
Silverton
The Village of Indian Hill
Mulberry
Mt Repos
Grandview
Monfort Heights East
St Bernard
Madeira
Terrace Park
Milford
Cleves
Cheviot
Norwood
North Bend
Addyston
Dayton
Taylorsport
Turpin Hills
Dry Run
Mt Carmel
Cincinnati
Ludlow
Newport
Fort Thomas
Stringtown
Villa Hills
Southgate
Brent
Asbury
Withamsville
Fort Wright
Lakeside Park
Fort Mitchell
Wilder
Highland Heights
Silver Grove
Melbourne
Burlington
Oakbrook
Crestview Hills
Covington
Erlanger
Cold Spring
Edgewood
Taylor Mill
New Palestine
Florence
Elsmere
Oak Ridge
Pye Hill
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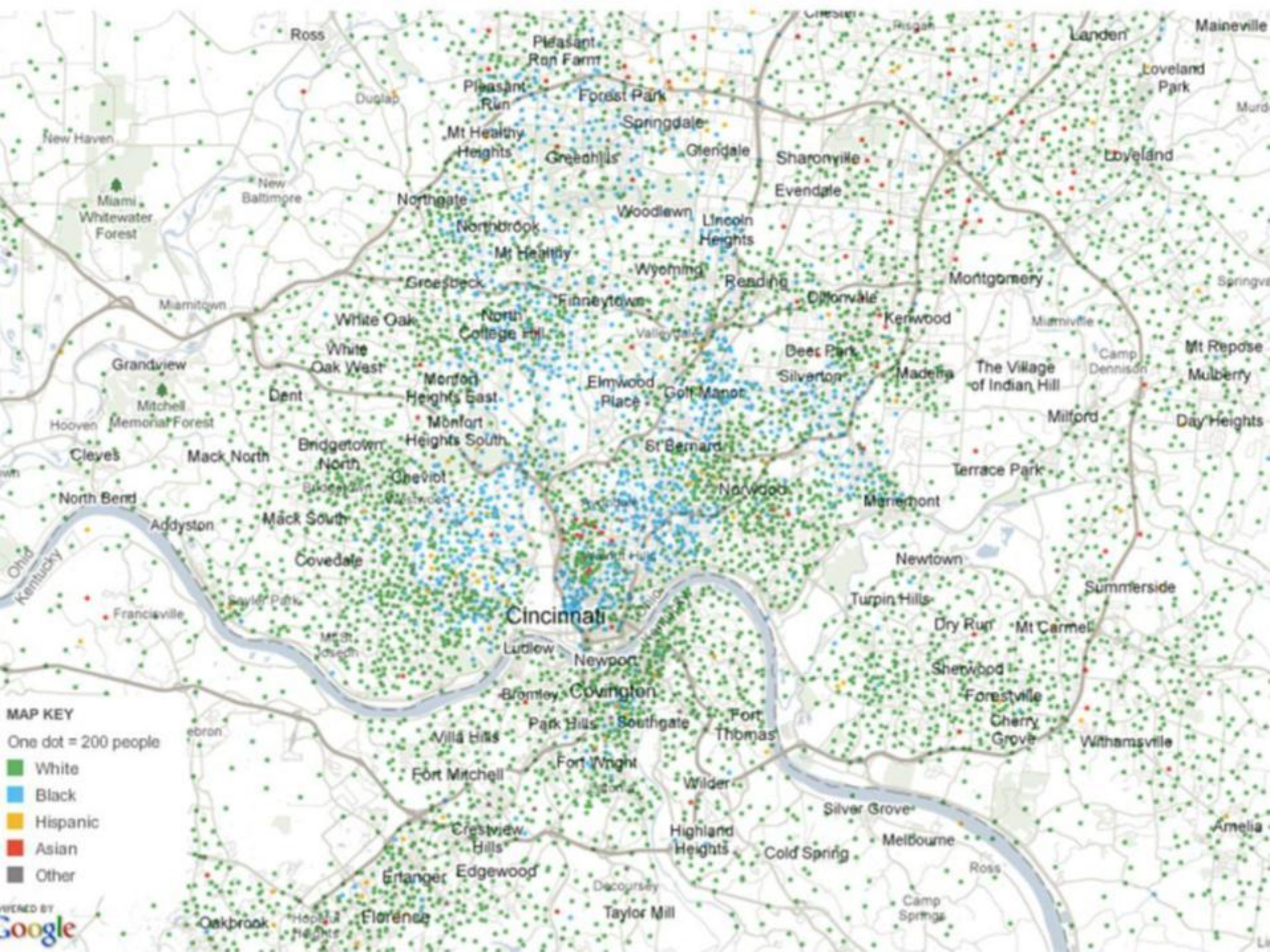
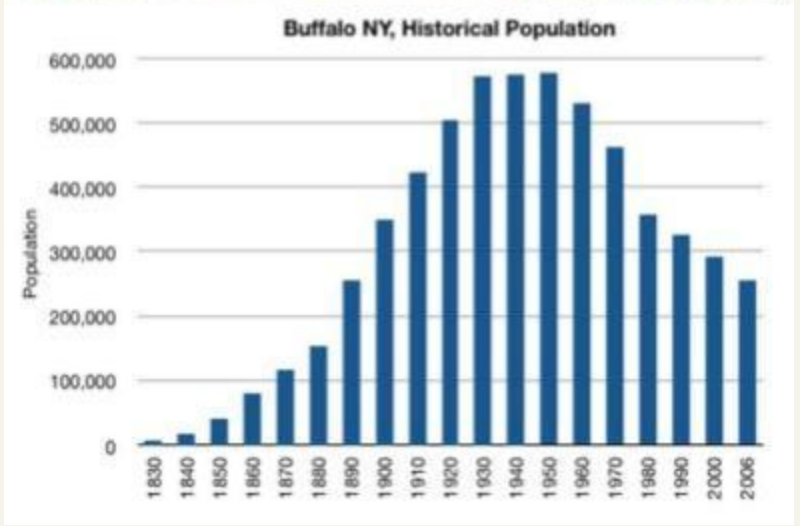
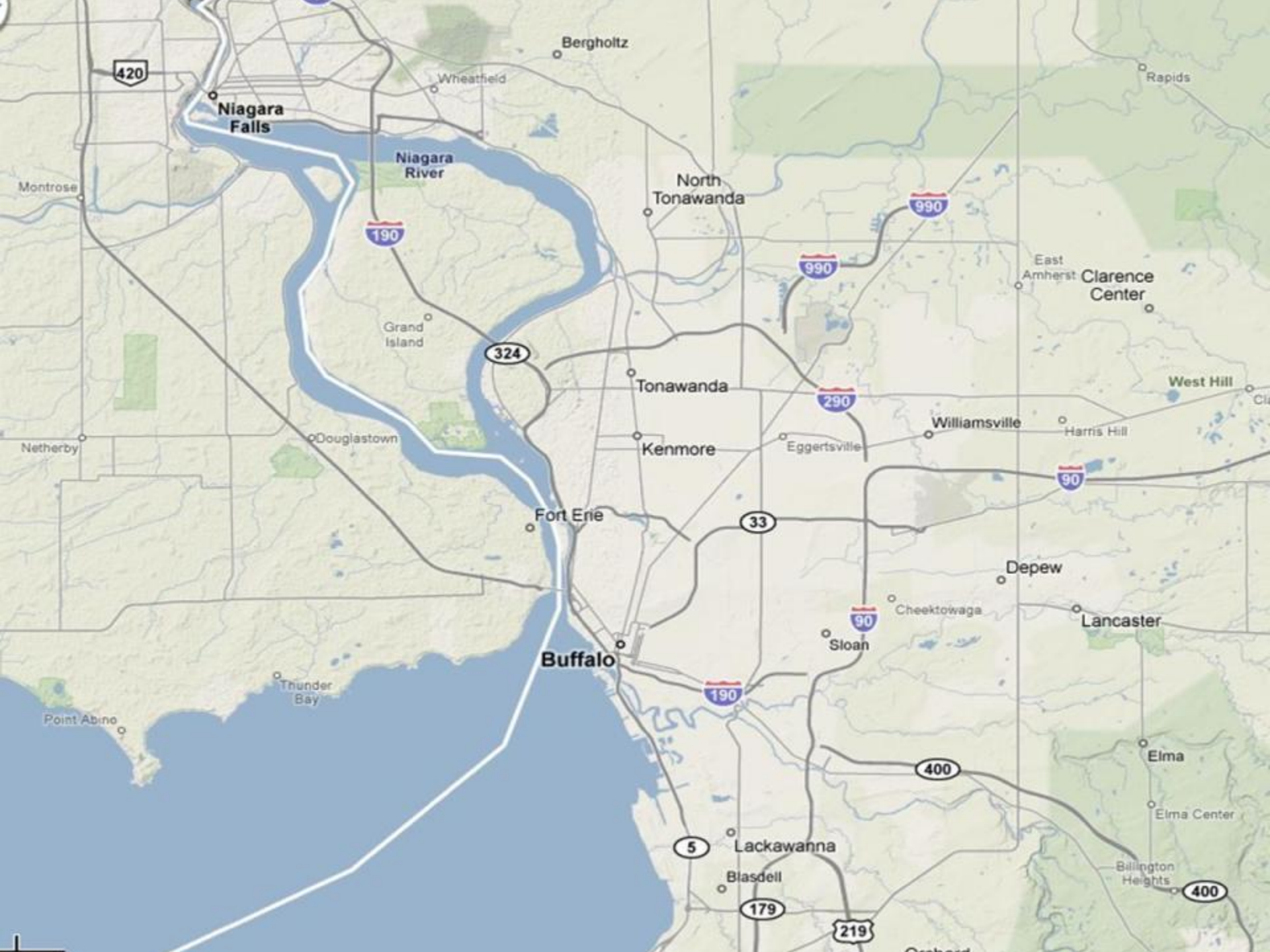

MAP KEY
One dot = 200 people
White
Black
Hispanic
Asian
Other
Cincinnati
Covington
Ross
Pleasant Run Farm
Pleasant Run
Forest Park
Springdale
Mt Healthy Heights
Greenhills
Glendale
Sharonville
Evendale
Landen
Maineville
Loveland Park
Loveland
New Haven
Miami Whitewater Forest
New Baltimore
Northgate
Northbrook
Woodlawn
Lincoln Heights
Mt Healthy
Wyoming
Reading
Montgomery
Groesbeck
Finneytown
Dillonvale
Kenwood
Miamitown
White Oak
North College Hill
White Oak West
Deer Park
Silverton
Madeira
The Village of Indian Hill
Camp Dennison
Mt Repose
Mulberry
Grandview
Mitchell Memorial Forest
Dent
Monfort Heights East
Elmwood Place
Golf Manor
Milford
Day Heights
Hooven
Monfort Heights South
St Bernard
Cleves
Mack North
Bridgetown North
Cheviot
Terrace Park
North Bend
Norwood
Mariemont
Addyston
Mack South
Covedale
Newtown
Summerside
Ohio
Kentucky
Francisville
Turpin Hills
Dry Run
Mt Carmel
Ludlow
Newport
Sherwood
Bromley
Forestville
Park Hills
Southgate
Fort Thomas
Cherry Grove
Villa Hills
Withamsville
Fort Wright
Fort Mitchell
Wilder
Silver Grove
Crestview Hills
Highland Heights
Melbourne
Amelia
Cold Spring
Ross
Erlanger
Edgewood
Decoursey
Camp Springs
Taylor Mill
Oakbrook
Florence
Google

Buffalo

- 2nd largest city in New York State
- Originating around 1789, Buffalo grew quickly around 1825 after the opening of the Erie Canal
- The rerouting of shipping by the St. Lawrence Seaway, and the closing of many steel mills and other heavy industries have also contributed to the decline

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Wheatfield
Rapids
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Niagara Falls
Niagara River
Montrose
North Tonawanda
990
190
East Amherst
Clarence Center
Grand Island
324
Tonawanda
West Hill
290
Williamsville
Harris Hill
Netherby
Douglastown
Kenmore
Eggertsville
90
Fort Erie
33
Depew
Cheektowaga
Lancaster
Sloan
Buffalo
Thunder Bay
Point Abino
Elma
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Elma Center
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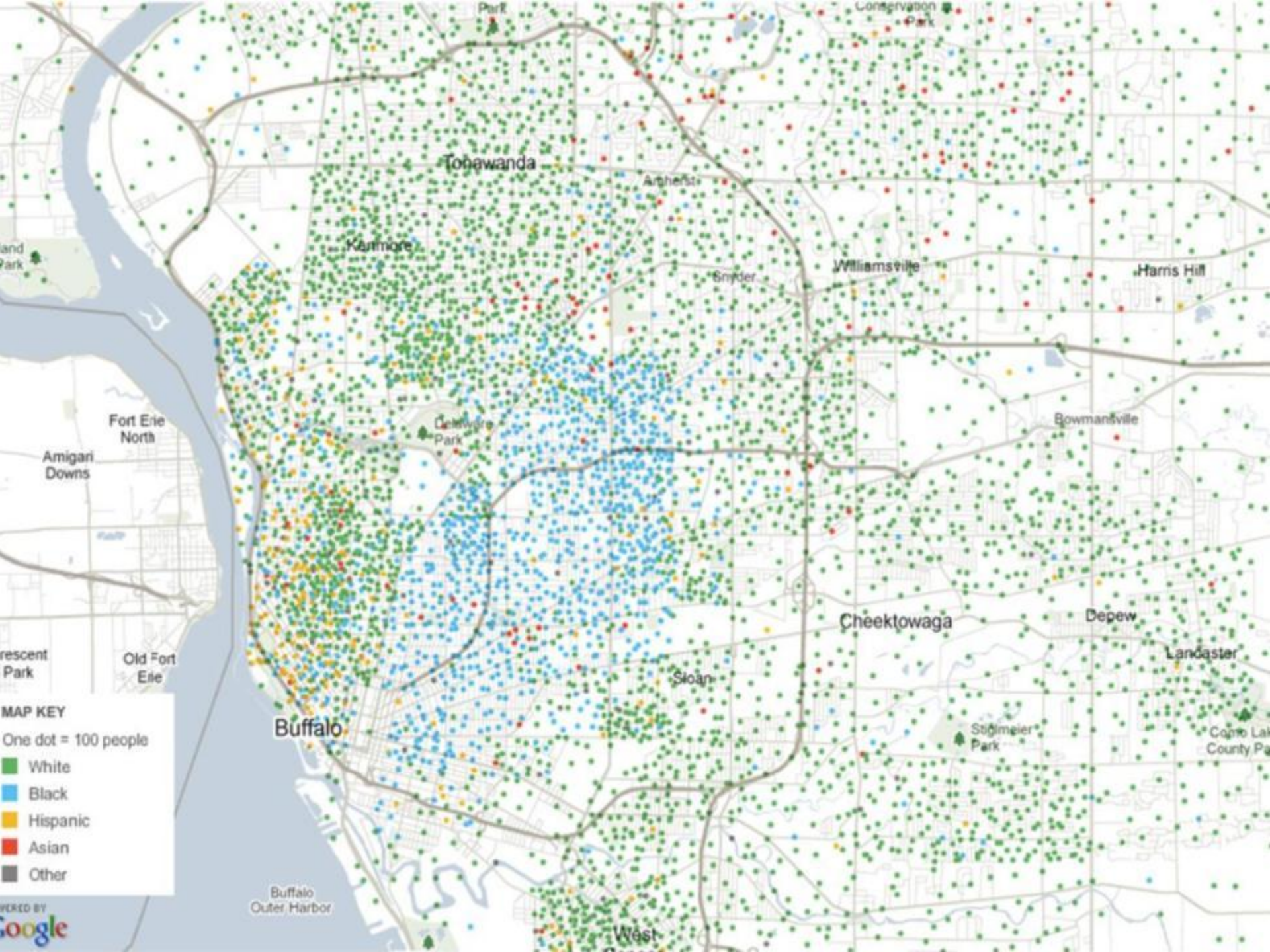
Lackawanna
Blasdell
Billington Heights
179
219


Tonawanda
Kenmore
Amherst
Snyder
Williamsville
Harris Hill
Fort Erie North
Amigari Downs
Bowmansville
Cheektowaga
Depew
Lancaster
Sloan
Buffalo
Old Fort Erie
Buffalo Outer Harbor
MAP KEY
One dot = 100 people
White
Black
Hispanic
Asian
Other

Indianapolis

- Capital and largest city in Indiana
  - Historically - oriented around government and industry (automobile production and manufacturing)
  - Today - much more diversified economy, including education, healthcare, and finance.
- Popular destination for tourists.
- Home of the “Indy 500”

Whitestown
Carmel
Zionsville
Northern Meadows
Fishers
Russell Lake
Home Place
Geist Reservoir
McCordsville
Meridian Hills
Lawrence
Eagle Creek Reservoir
Brownsburg
Rocky Ripple
Clermont Heights
Clermont
Speedway
Warren Park
Cumberland
Gem
Avon
Indianapolis
Lynhurst
Six Points
Mars Hill
Beech Grove
Brookville Heights
Plainfield
Southport
Mann Hill
London Heights
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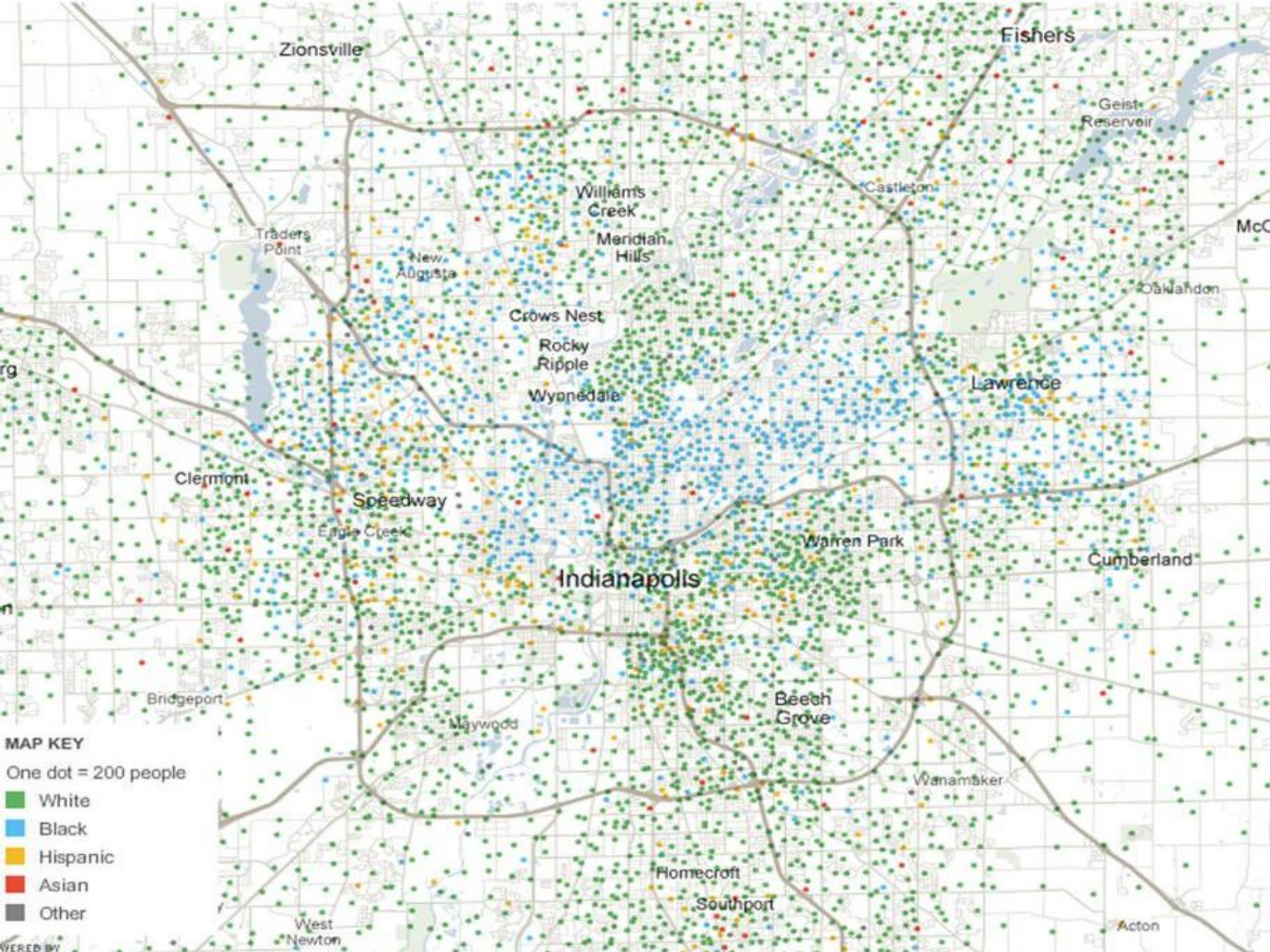
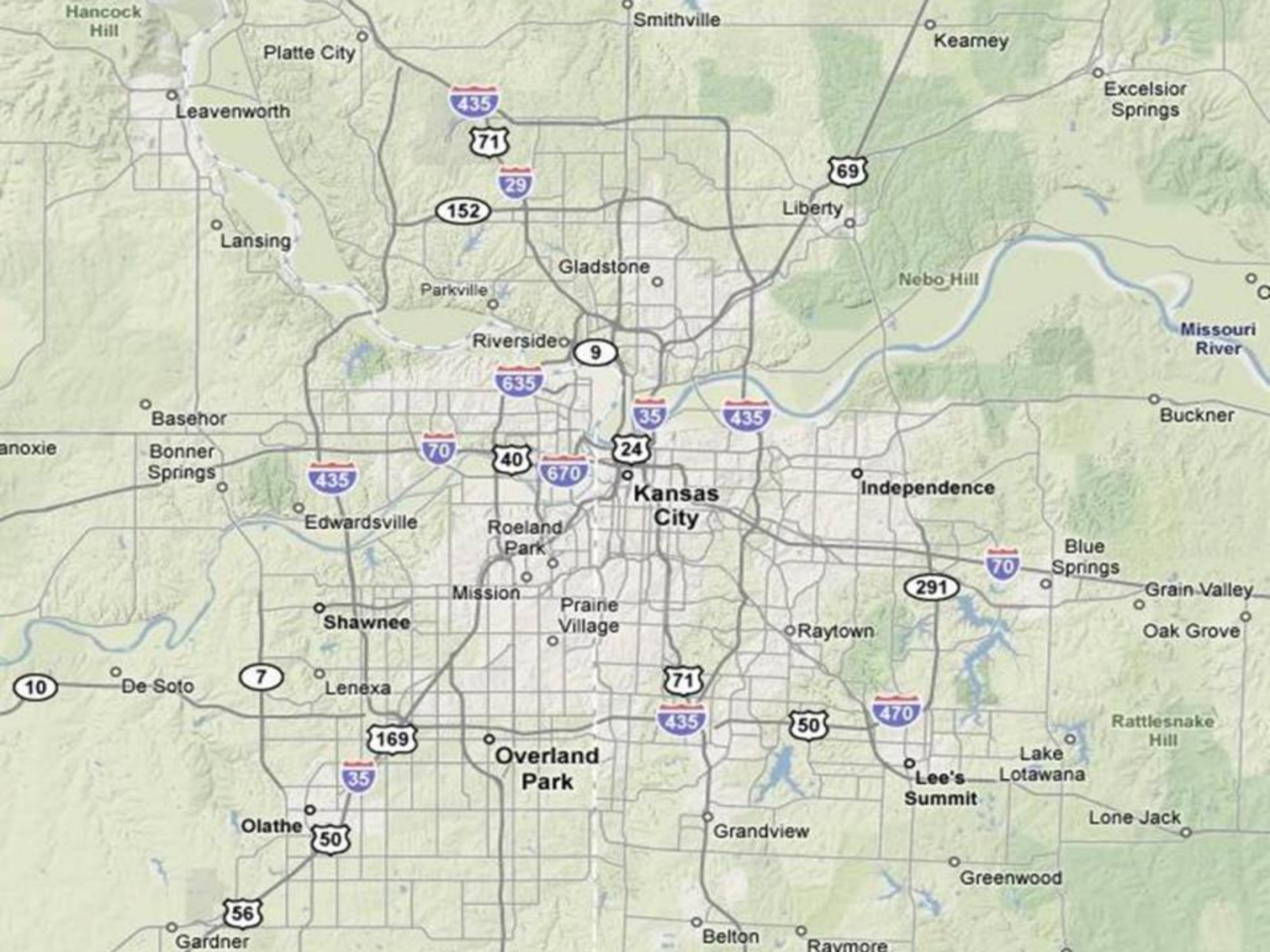

Zionsville
Fishers
Geist Reservoir
Castleton
Williams Creek
Meridian Hills
Traders Point
New Augusta
Crows Nest
Rocky Ripple
Wynnedale
Lawrence
Clermont
Speedway
Eagle Creek
Warren Park
Cumberland
Indianapolis
Bridgeport
Maywood
Beech Grove
Wanamaker
Homecroft
Southport
West Newton
Acton
MAP KEY
One dot = 200 people
White
Black
Hispanic
Asian
Other

Kansas City

- Largest city in Missouri
- Confluence of the Missouri and Kansas rivers.
- Historically, Kansas City has been the third largest beef capital in the US (behind Chicago and Cincinnati) and home to the second largest rail network.
- Kansas City is most famous for its steak and barbecue.


Hancock Hill
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Smithville
Kearney
Excelsior Springs
Leavenworth
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Liberty
Lansing
Gladstone
Nebo Hill
Parkville
Missouri River
Riverside
9
635
Basehor
35
435
Buckner
anoxie
Bonner Springs
70
40
24
435
670
Kansas City
Independence
Edwardsville
Roeland Park
Blue Springs
70
291
Grain Valley
Mission
Shawnee
Praine Village
Raytown
Oak Grove
10
De Soto
7
Lenexa
71
435
50
470
Rattlesnake Hill
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Overland Park
Lake Lotawana
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Grandview
Lone Jack
Greenwood
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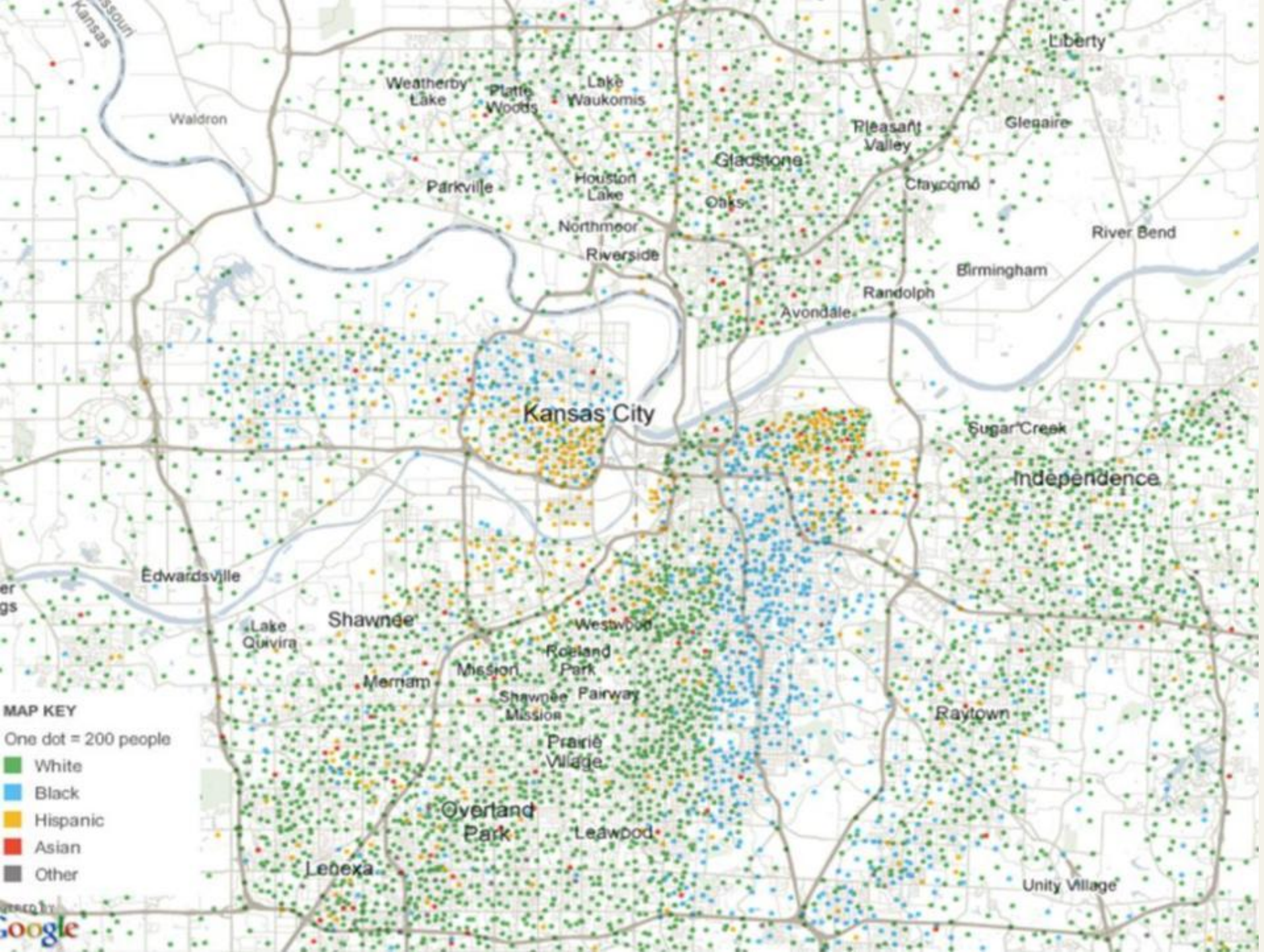
Gardner
Belton
Raymore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Weatherby Lake
Platte Woods
Lake Waukomis
Waldron
Pleasant Valley
Glenaire
Gladstone
Parkville
Houston Lake
Claycomo
Oaks
Northmoor
River Bend
Riverside
Birmingham
Randolph
Avondale
Kansas City
Sugar Creek
Independence
Edwardsville
Shawnee
Lake Quivira
Westwood
Roeland Park
Mission
Merriam
Shawnee Mission
Fairway
Raytown
Prairie Village
Overland Park
Leawood
Lenexa
Unity Village
MAP KEY
One dot = 200 people
White
Black
Hispanic
Asian
Other
Google

St. Louis

- Confluence of the Missouri and Mississippi rivers
- Home of the 1904 World's Fair and 1904 Olympic Games
- Home to the world-renowned Saint Louis Symphony Orchestra, founded in 1880, 2nd oldest orchestra in the nation.
- Home of Anheuser-Busch Breweries

Winfield
McAdams Peak
Tucker Knob
Grafton
Godfrey
Elsah
Brussels
Alton
Bethalto
Wood River
Hartford
Roxana
St Paul
370
St Peters
St Charles
Florissant
255
Edwardsville
Lake St Louis
O'Fallon
Dardenne Prairie
Cottleville
94
Hazelwood
Bridgeton
Ferguson
Bellefontaine Neighbors
270
Glen Carbon
55
Troy
Maryville
Berkeley
St Ann
Jennings
St John
Granite City
40
Maryland Heights
Weldon Spring
61
Overland
Olivette
Pagedale
Venice
Madison
Collinsville
Chesterfield
Creve Coeur
Clayton
Washington Park
Town and Country
Richmond Heights
St Louis
Caseyville
Tavern Rock
Des Peres
Webster Groves
O'Fallon
Ellisville
Ballwin
Centreville
Fairview Heights
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Kirkwood
Marlborough
Cahokia
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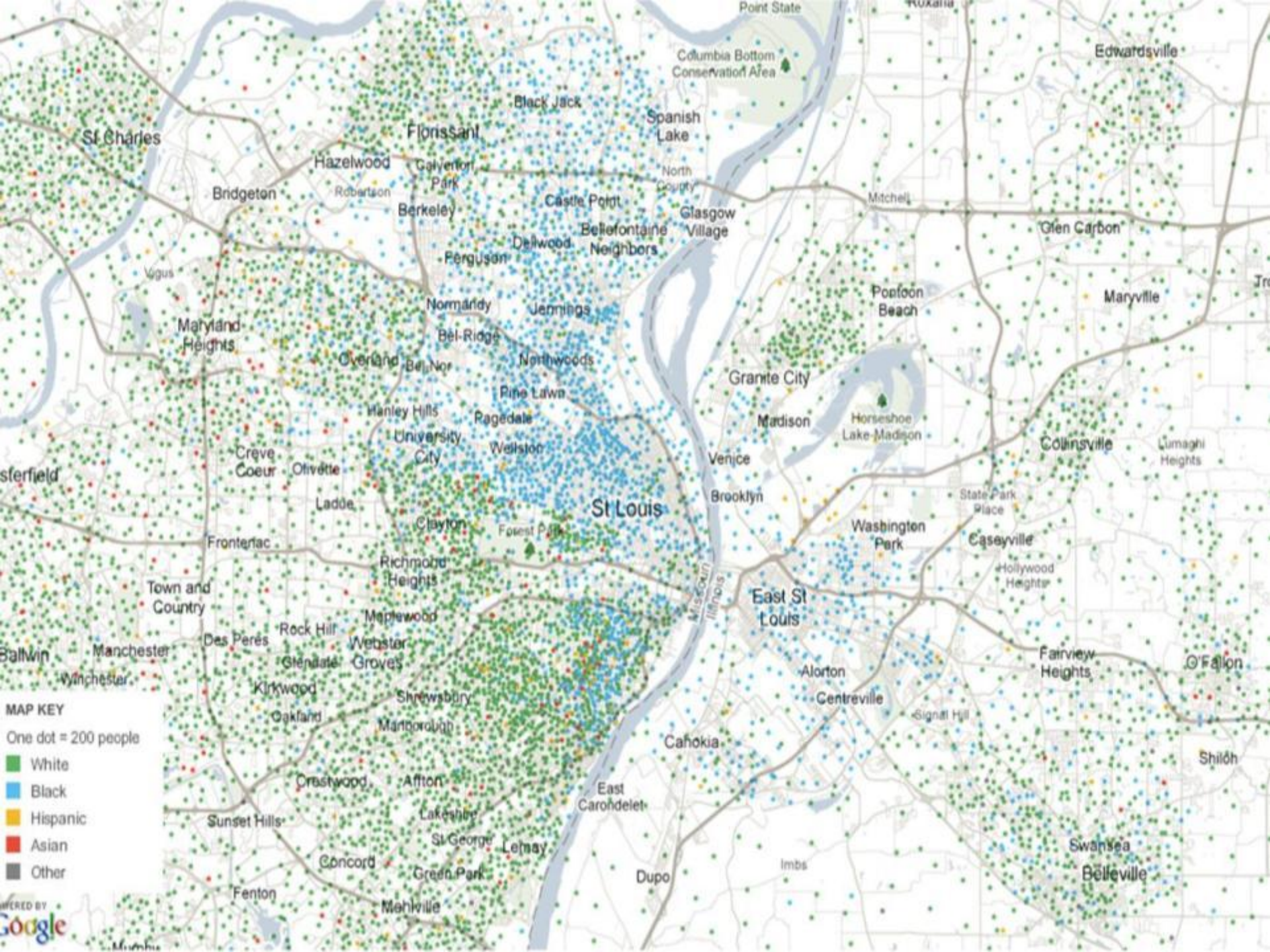

Point State
Roxana
Columbia Bottom Conservation Area
Edwardsville
Black Jack
Spanish Lake
St Charles
Florissant
Hazelwood
Calverton Park
North County
Bridgeton
Robertson
Berkeley
Castle Point
Glasgow Village
Mitchell
Glen Carbon
Bellefontaine Neighbors
Dellwood
Ferguson
Vigus
Pontoon Beach
Maryville
Normandy
Jennings
Maryland Heights
Bel-Ridge
Overland
Bel-Nor
Northwoods
Granite City
Pine Lawn
Hanley Hills
Pagedale
Madison
Horseshoe Lake-Madison
University City
Wellston
Collinsville
Lumaghi Heights
Creve Coeur
Olivette
Venice
Ladue
Brooklyn
State Park Place
St Louis
Clayton
Forest Park
Washington Park
Caseyville
Frontenac
Richmond Heights
Hollywood Heights
Town and Country
Missouri
Illinois
East St Louis
Maplewood
Rock Hill
Des Peres
Webster Groves
Manchester
Glendale
Fairview Heights
O'Fallon
Winchester
Kirkwood
Alorton
Centreville
Shrewsbury
Oakland
Signal Hill
Marlborough
Cahokia
Shiloh
Crestwood
Affton
East Carondelet
Sunset Hills
Lakeshire
St George
Lemay
Swansea
Concord
Green Park
Dupo
Imbs
Belleville
Fenton
Mehlville
MAP KEY
One dot = 200 people
White
Black
Hispanic
Asian
Other
Google

Other metro areas over 500,000

- Industrial and financial centers
  - Des Moines, Grand Rapids, Lexington, Louisville, Nashville, Rochester, Sioux Falls, Omaha

Outlook

- Important to the nations
  - Major economic area of Canada
  - Major agricultural and industrial area of the US
- Corporate agriculture
  - Fewer employed in this sector
- Growth in urban areas
  - Some cities flourishing more than others (i.e. Cleveland and Kansas City)