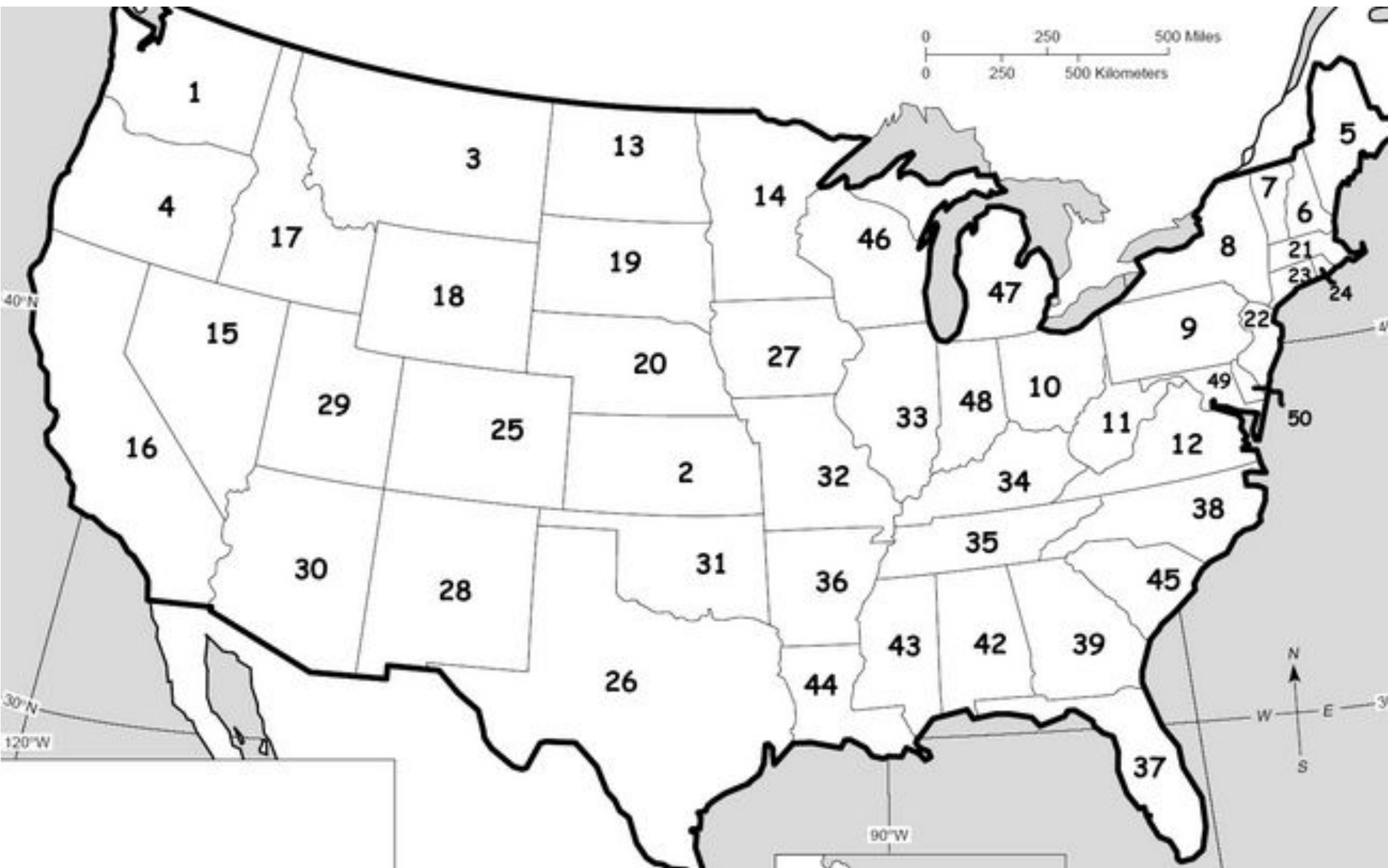


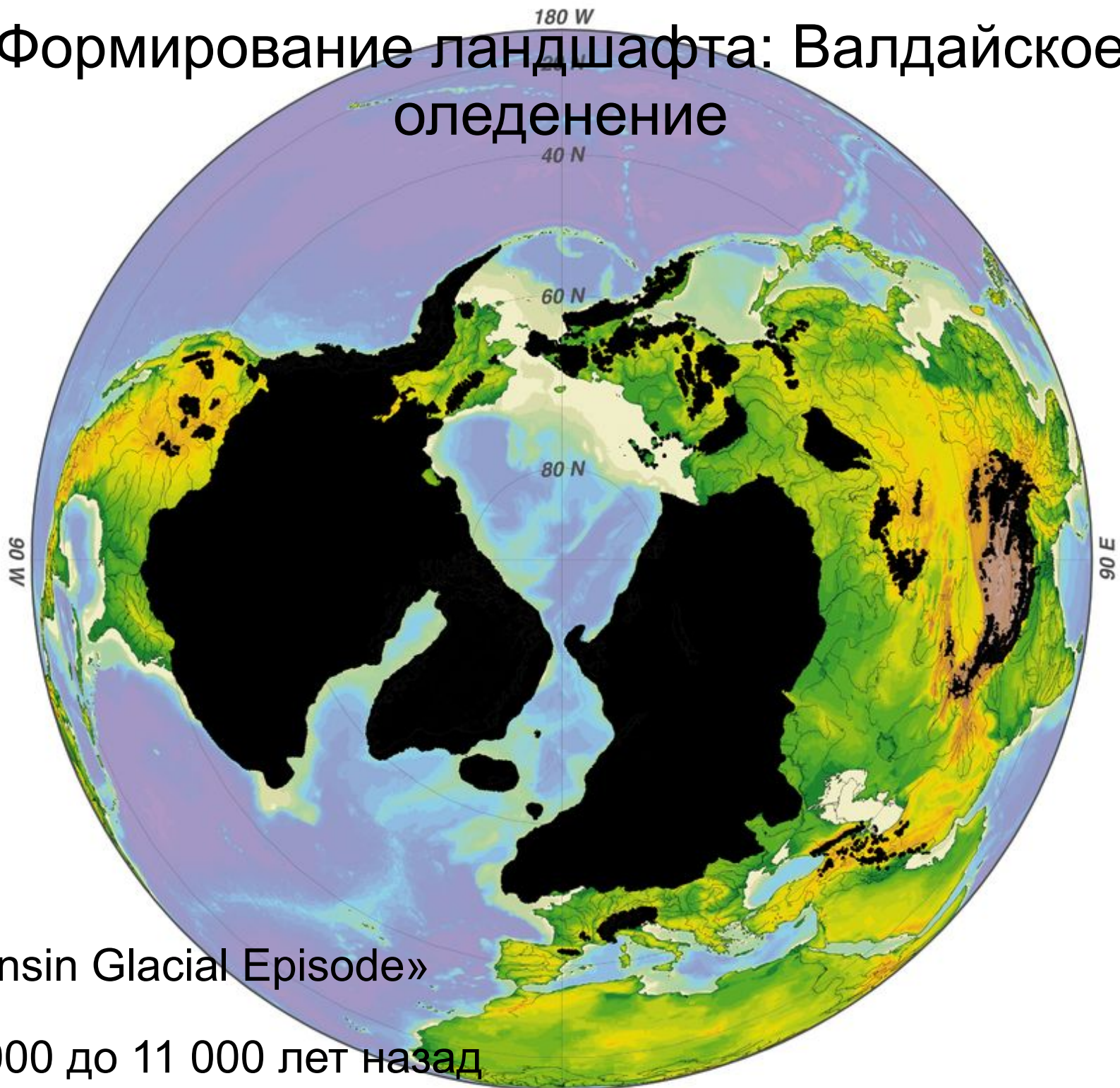
# Введение в экологии Висконсина



# Find Wisconsin



# Формирование ландшафта: Валдайское оледенение



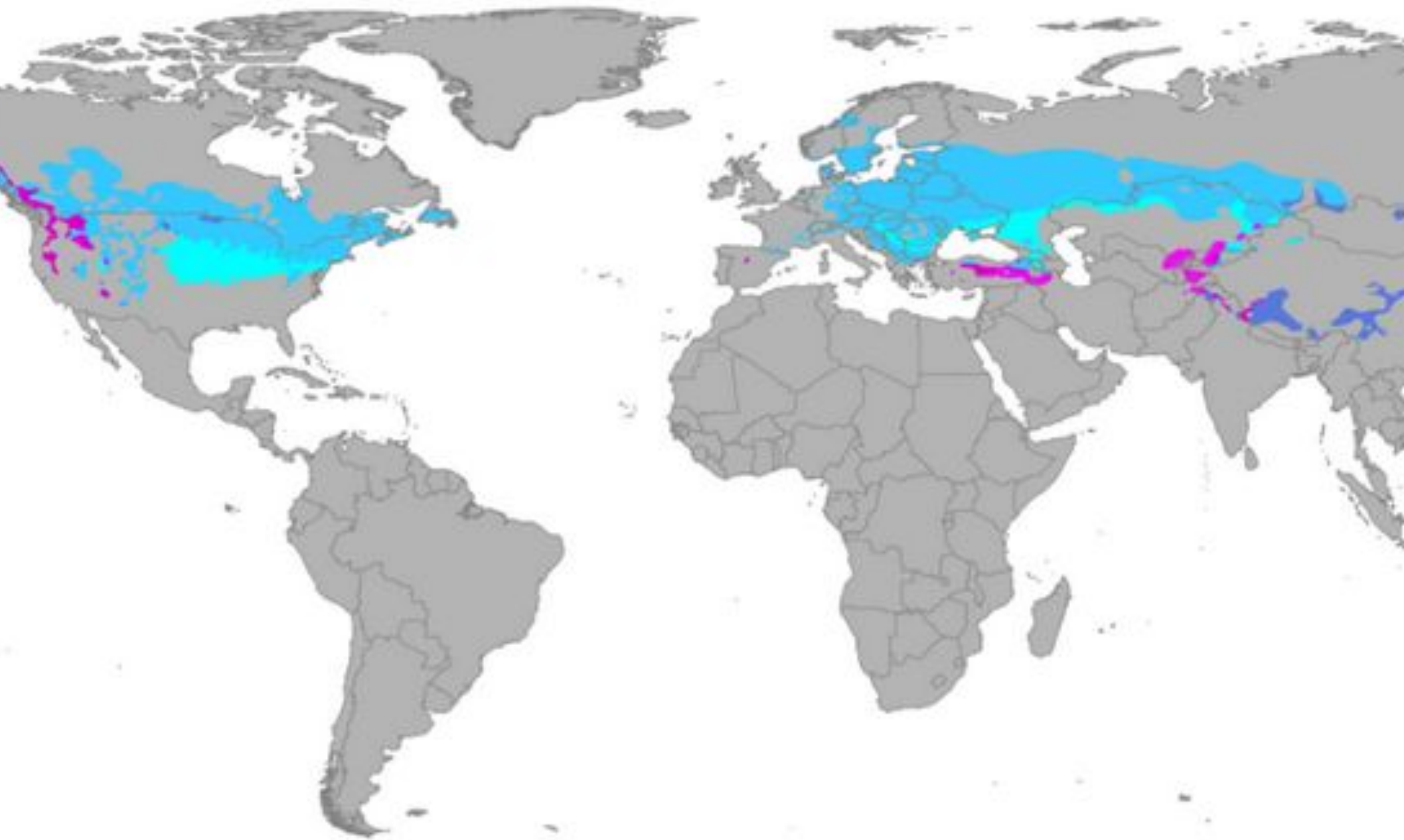
«Wisconsin Glacial Episode»

От 75 000 до 11 000 лет назад

# Великие озёра



# Гемиборальная Климата



# Лес умеренной зоны



Плотность: 39,6  
человека/ км<sup>2</sup>

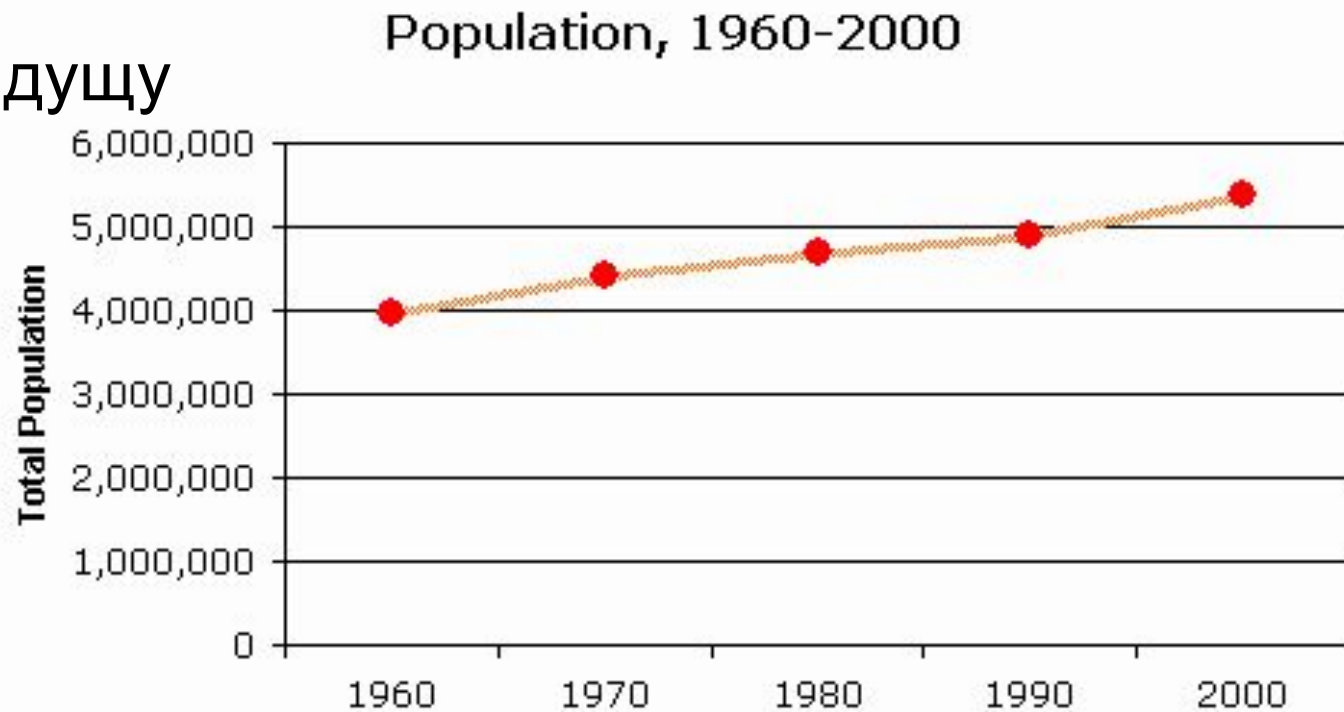
Уровень средней школы  
92,4%

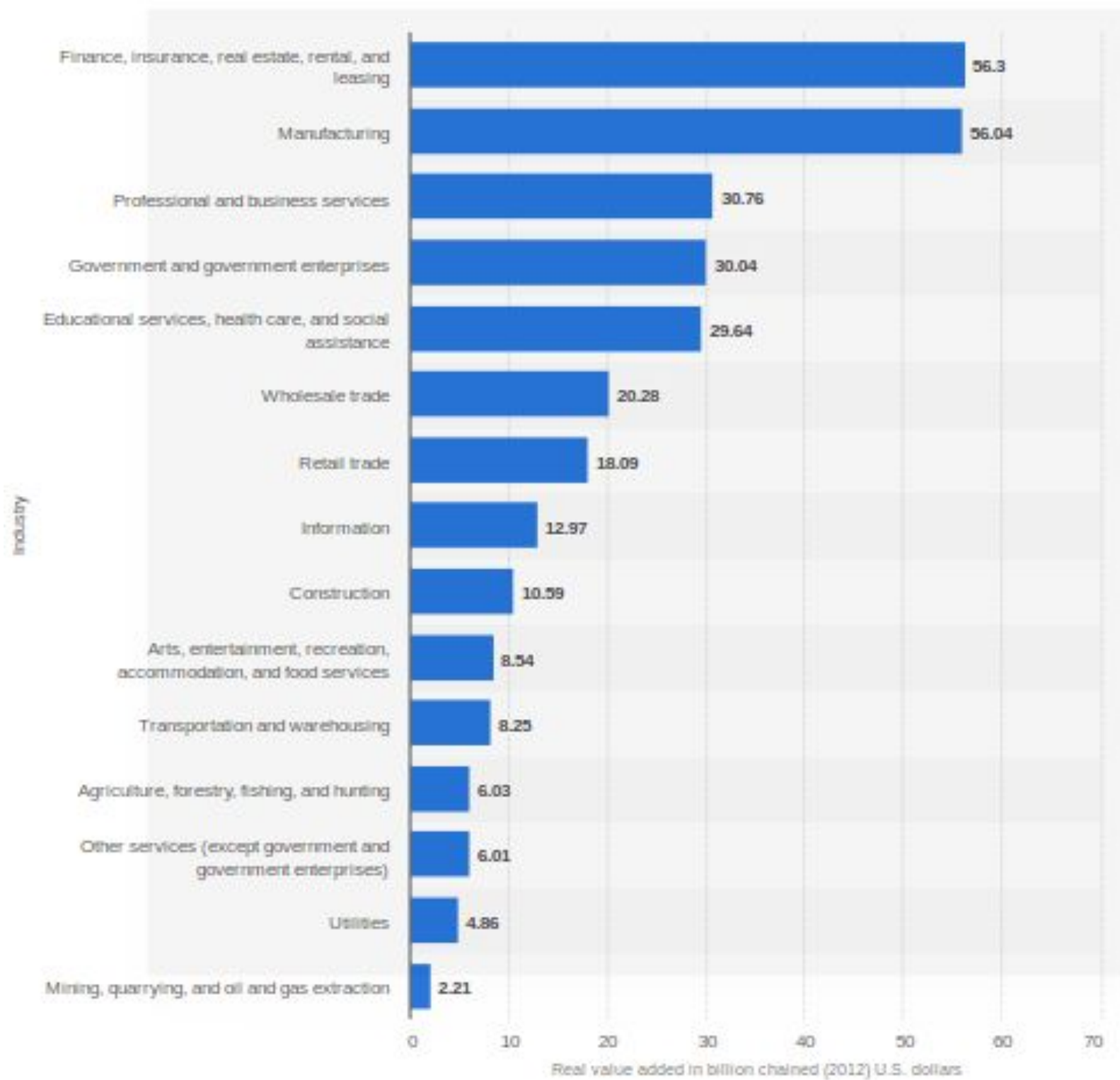
Высшее образование:  
30,4%

ВВП на душу населения  
\$47,266

Около 2 машин на душу  
население

# Социо- Экономические факторы



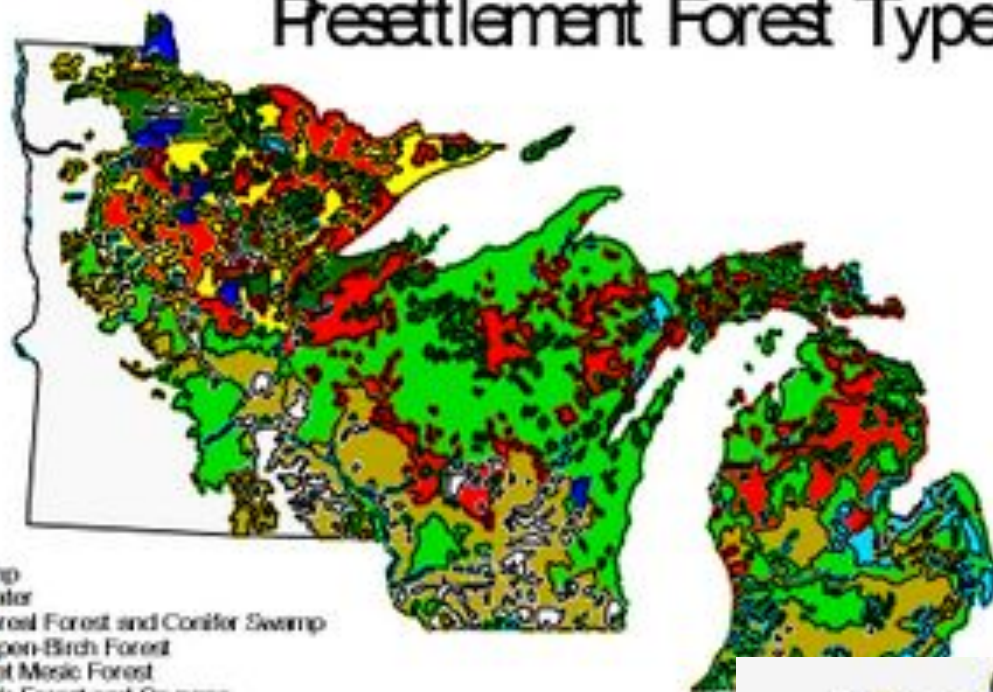






# Лесозаготов- ление

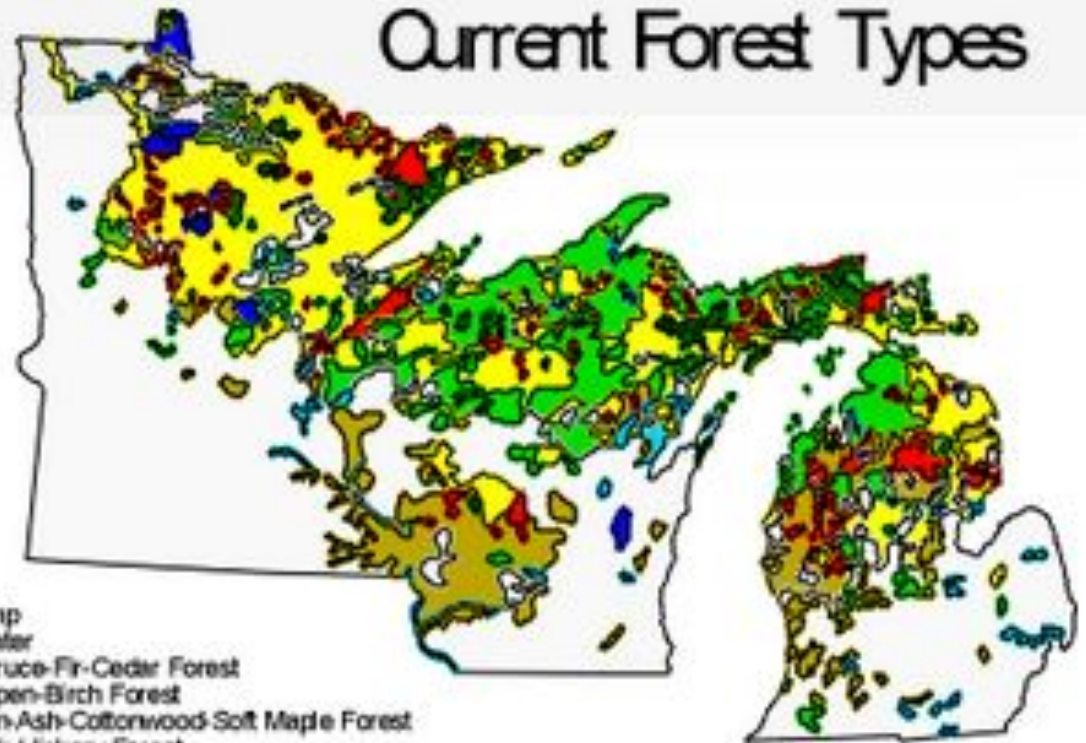
# Presettlement Forest Types



- Okfor.shp
- Water
  - Boreal Forest and Conifer Swamp
  - Aspen-Birch Forest
  - Wet Mesic Forest
  - Oak Forest and Savanna
  - Northern Mesic Forest
  - Pine Forests and Barrens
  - Non-Forest

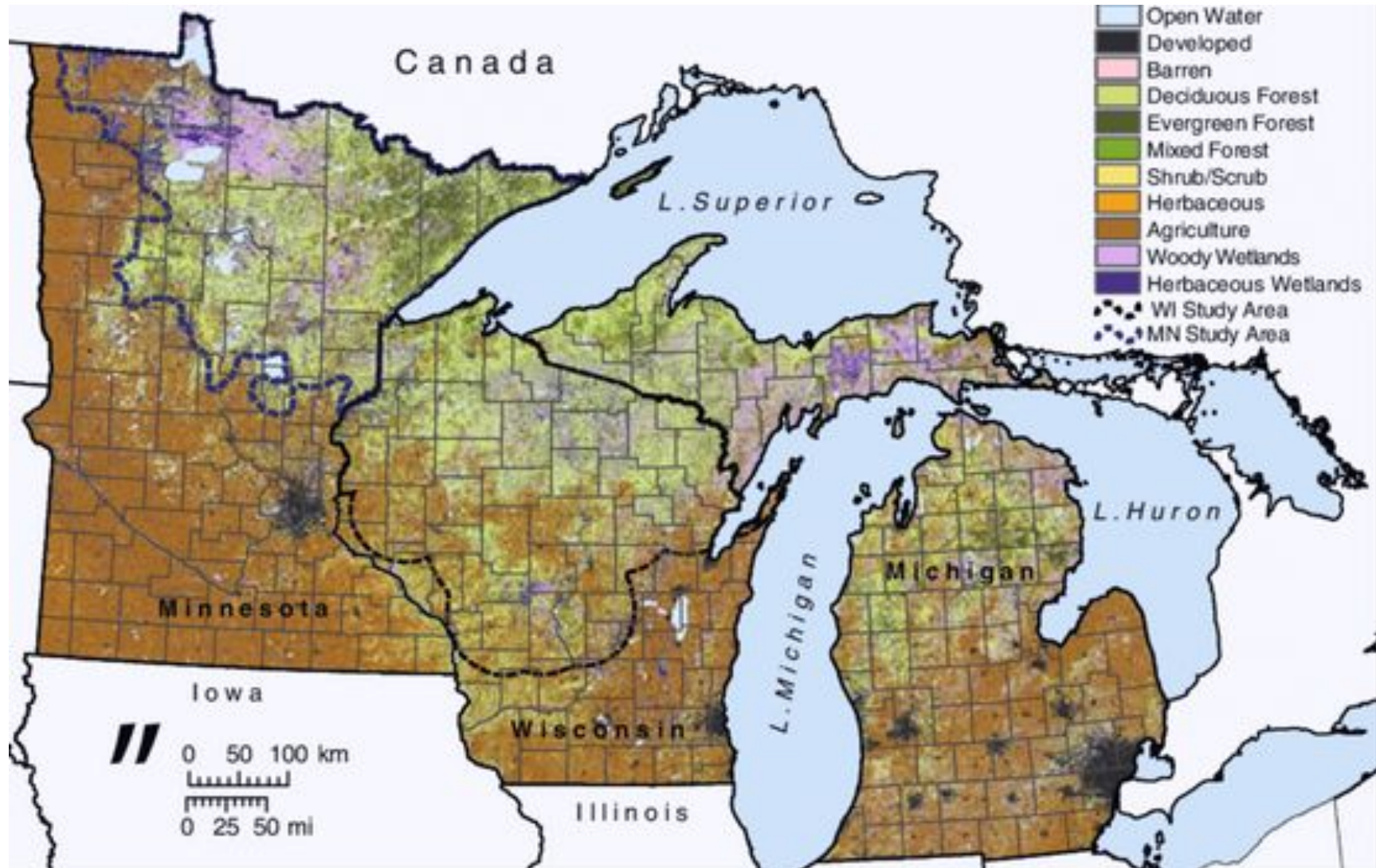
# Лесозаготов- ление

# Current Forest Types

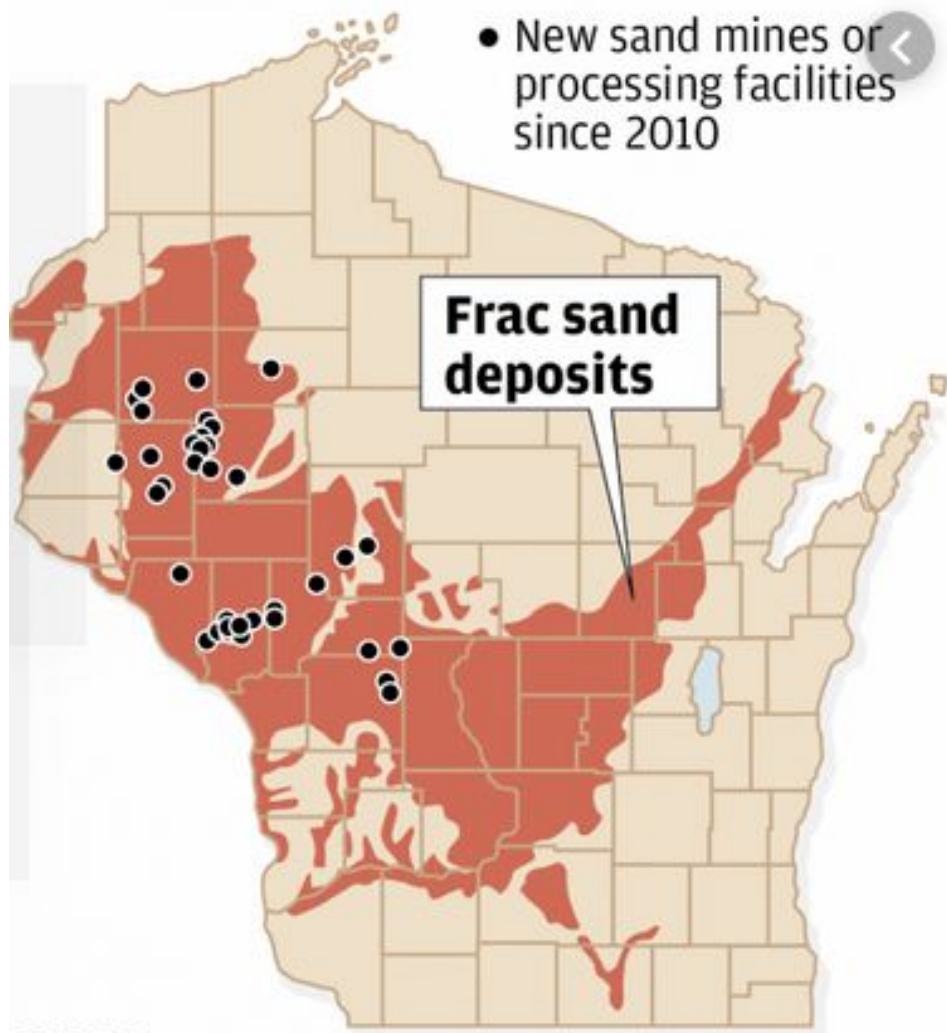


- Curfor.shp
- Water
  - Spruce-Fir-Cedar Forest
  - Aspen-Birch Forest
  - Elm-Ash-Cottonwood-Soft Maple Forest
  - Oak-Hickory Forest
  - Maple-Basswood-Birch Forest
  - Jack-Red-White Pine Forests
  - Non-Forest

# Современное Землепользование



# Добыча полезных ископаемых



SOURCE:  
Wisconsin Geological &  
Historical Survey

State Journal

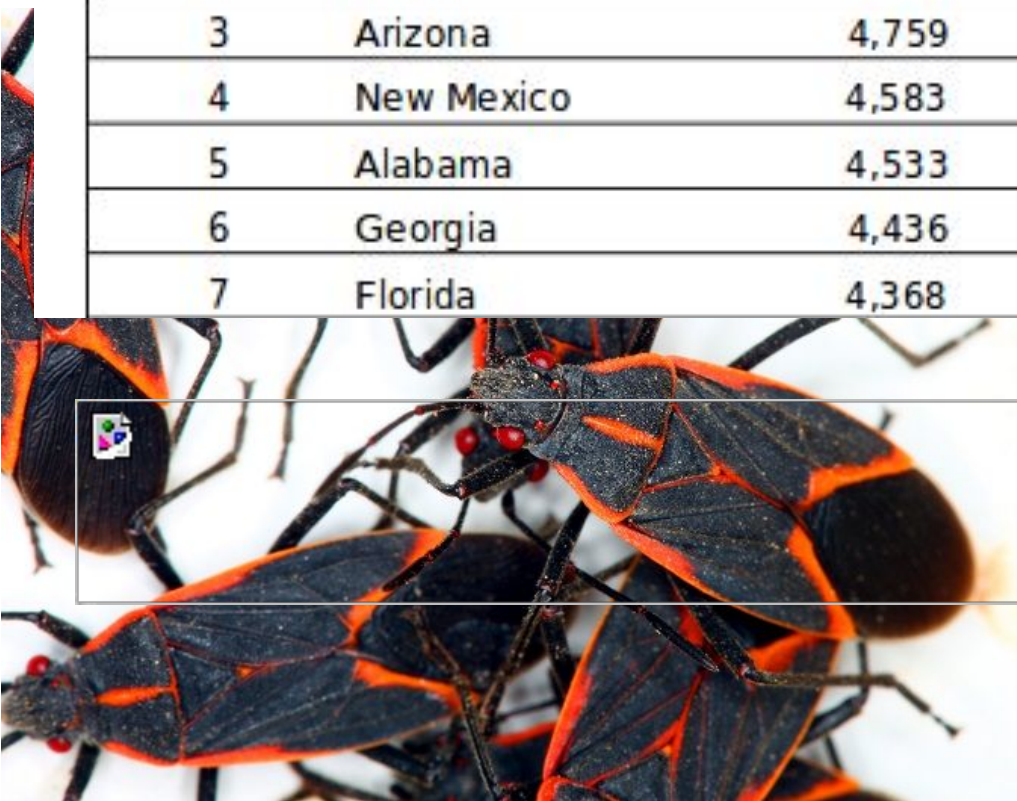


# Биоразнообразие

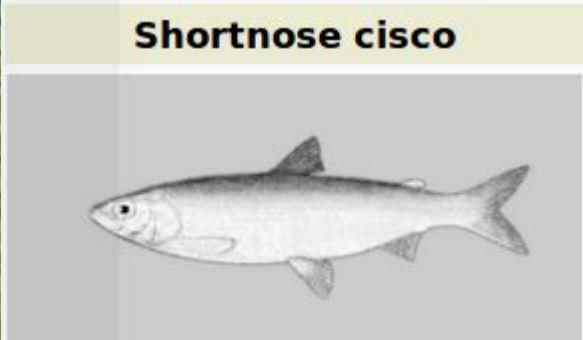


**Table A. Species Diversity by State**

RANK	STATE	# OF SPECIES
1	California	6,717
2	Texas	6,273
3	Arizona	4,759
4	New Mexico	4,583
5	Alabama	4,533
6	Georgia	4,436
7	Florida	4,368

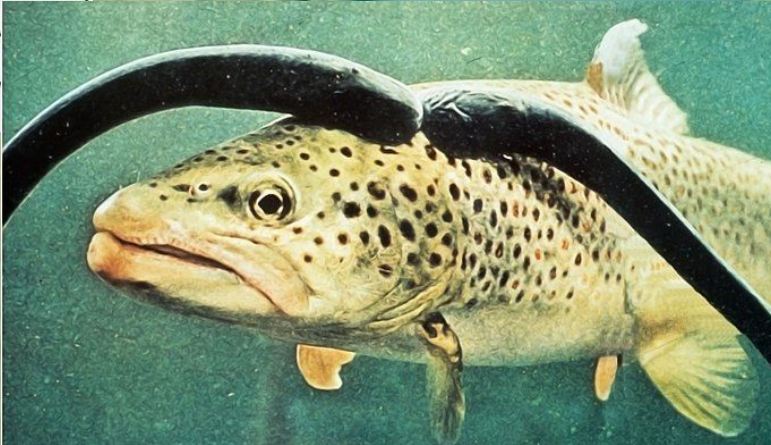


# Вымирание видов



**Table D. Extinctions by State**

RANK	STATE	TOTAL EXTINCT	PRESUMED EXTINCT (GX)	POSSIBLY EXTINCT (GH)
1	Hawaii	217	27	190
2	Alabama	90	25	65
3	California	53	12	41
4	Texas	27	3	24
5	Georgia	26	4	22
6	Florida	23	5	18
7	Tennessee	22	13	9
40	Nebraska	3	2	1
40	North Dakota	3	1	2
40	Washington	3	0	3
40	Wisconsin	3	2	1



# Подавление Степеного пожара

Jack Pine



Karner Blue Butterfly



Wild Lupine

15

# Ключевые виды экосистем





## Wolf Numbers in Minnesota, Wisconsin and Michigan (excluding Isle Royale) - 1976 to 2015

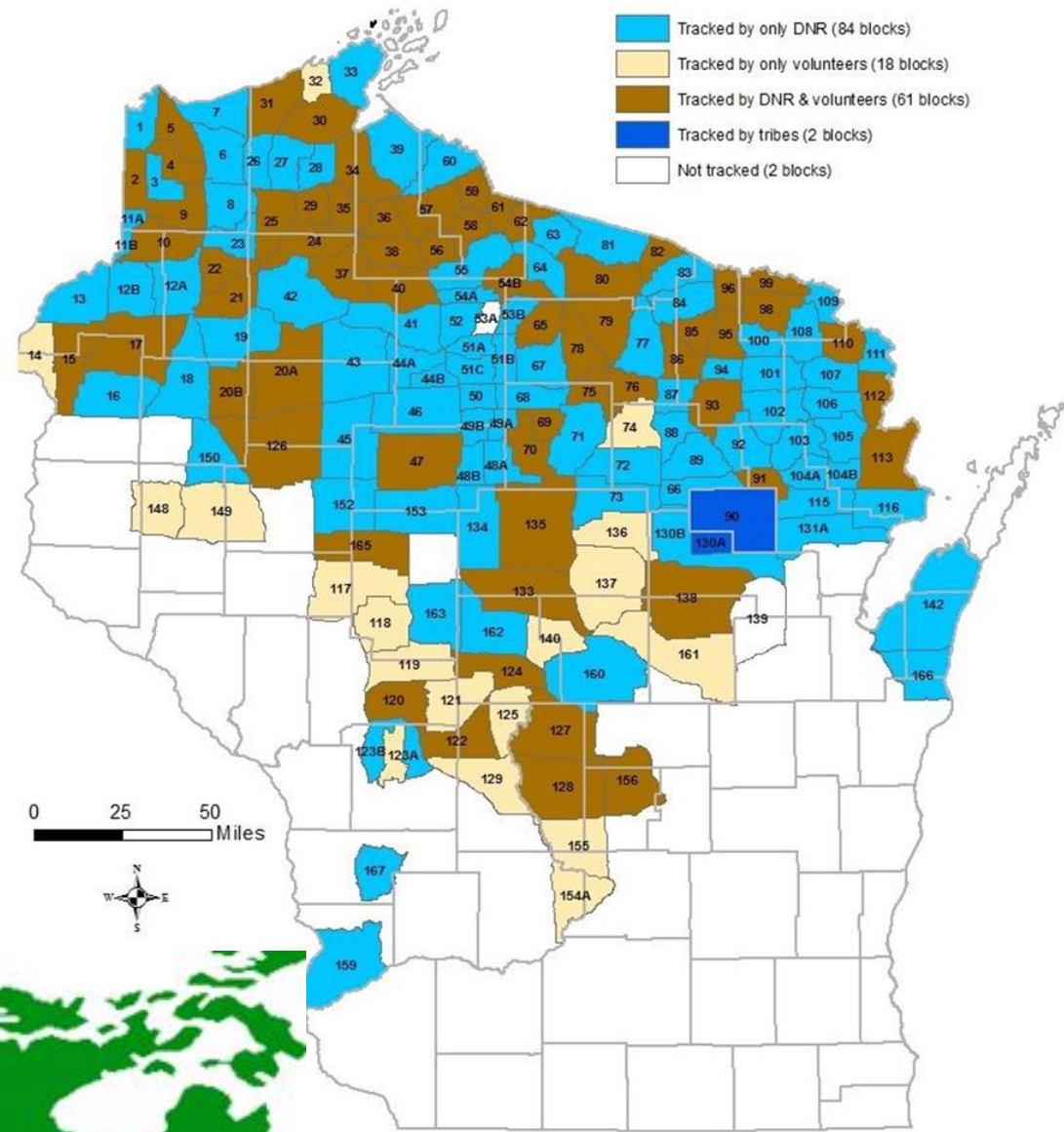
\*The counts are conducted during mid- to late winter to present the annual minimum population size..

# Североамериканский серый волк (Timber Wolf)

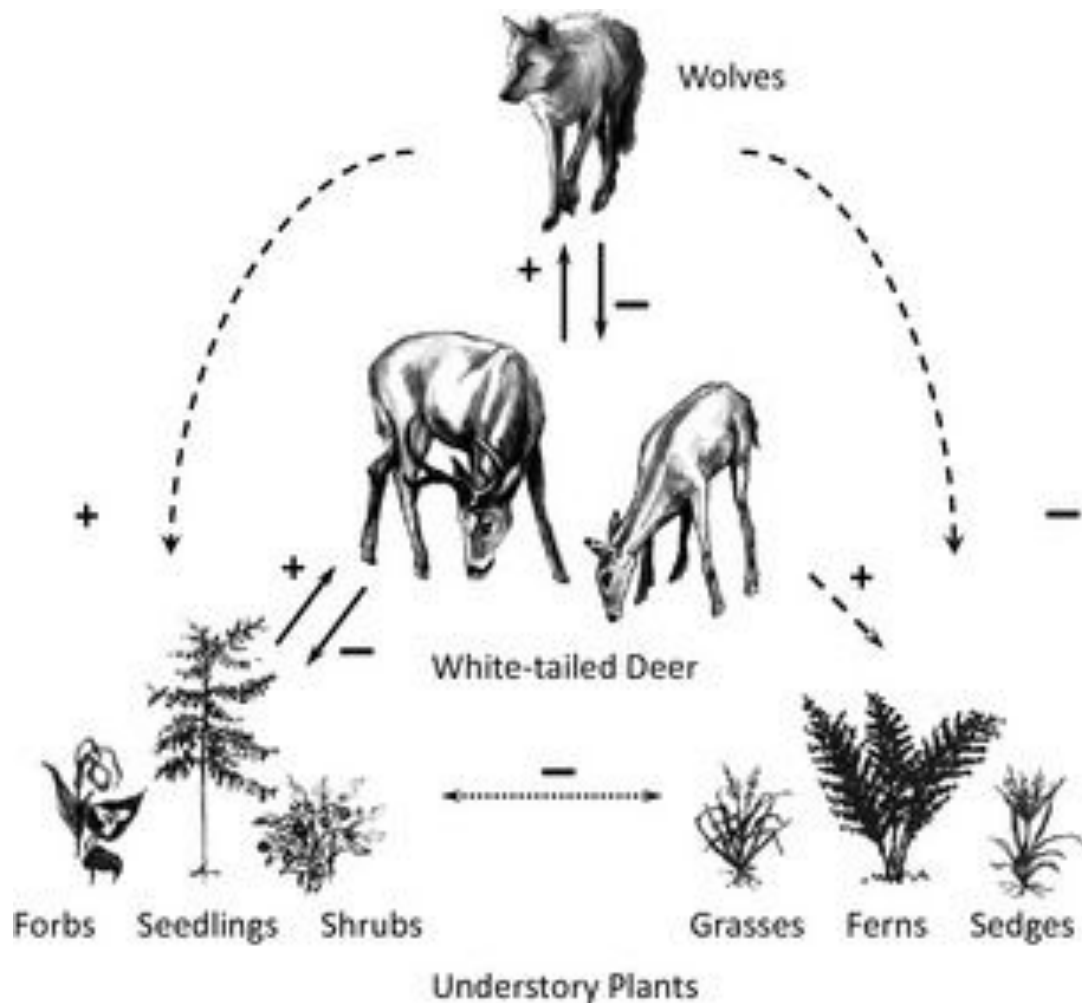
Year of Survey*	Minnesota	Wisconsin	Michigan
2017-2018	2,655	905	662
2016-2017	2,856	925	
2015-2016	2,278	866	618
2014-2015	2,221	746	(no survey)
2013-2014	2,423	660	636
2012-2013	2,211	809	658
2011-2012		815	687
2010-2011		782	687
1985-1986		16	-
1984-1985		15	-
1983-1984		17	-
1982-1983		19	-
1981-1982		27	-
1980-1981		21	-
1979-1980		25	-
1978 -1979	1,235	-	-
1975-1976	1,000 - 1,200	-	-



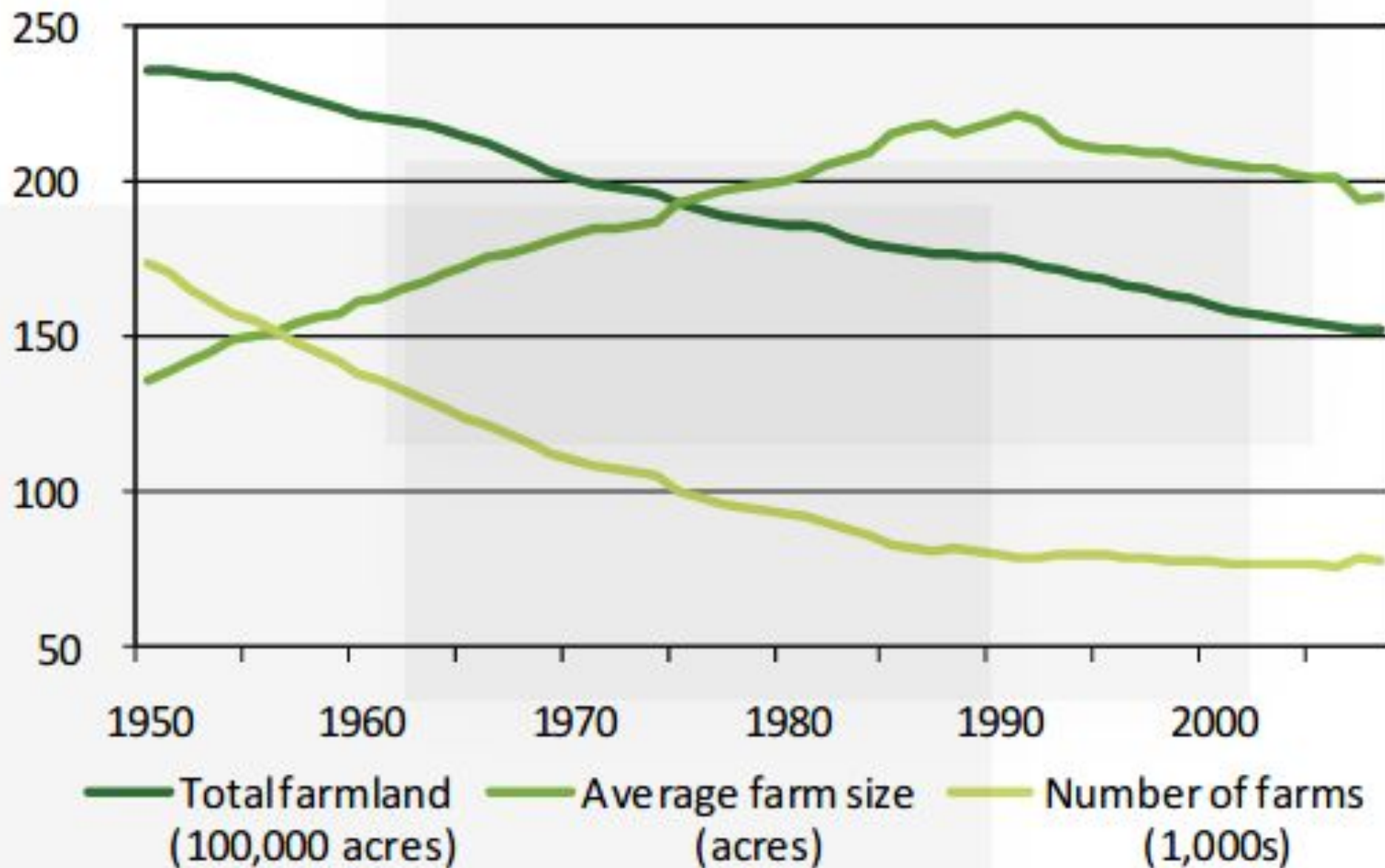
# Расширение территории волка



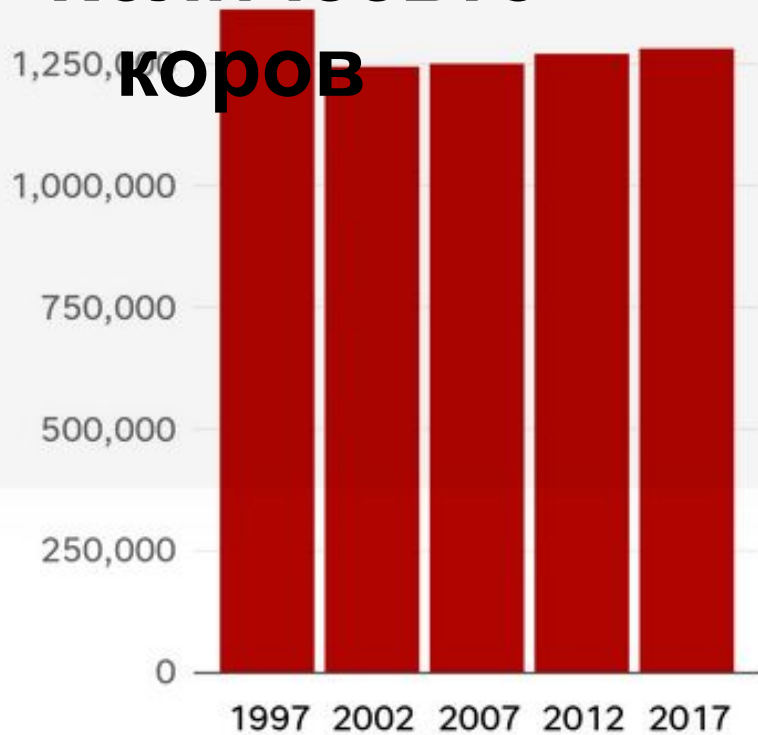
# Белохвостый олень (White Tailed Deer)



# Развитие сельского хозяйства



# Количество коров

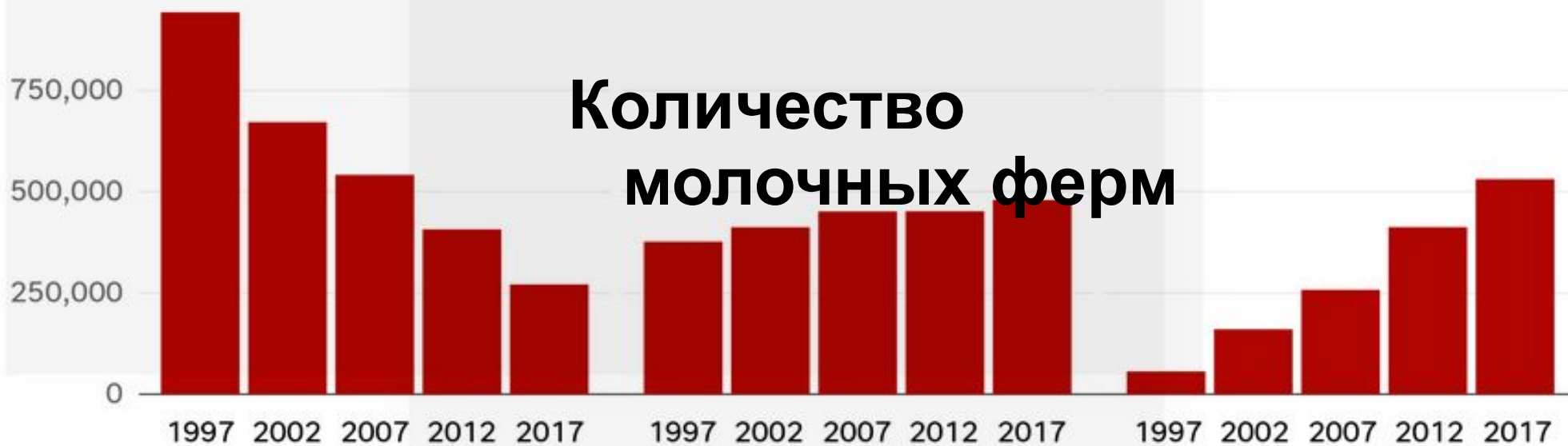


Number of cows on...

Small farms  
1-99 cows

Midsized farms  
100-499 cows

Large farms  
500+ cows



# Количество молочных ферм

**Несколько выводов...**