

Report on a game survey of the north central states  
by Aldo Leopold, Sporting Arms and Ammunition  
Manufacturers' Institute 1931



# Scale of a Central Grasslands roadmap

Jim Giocomo

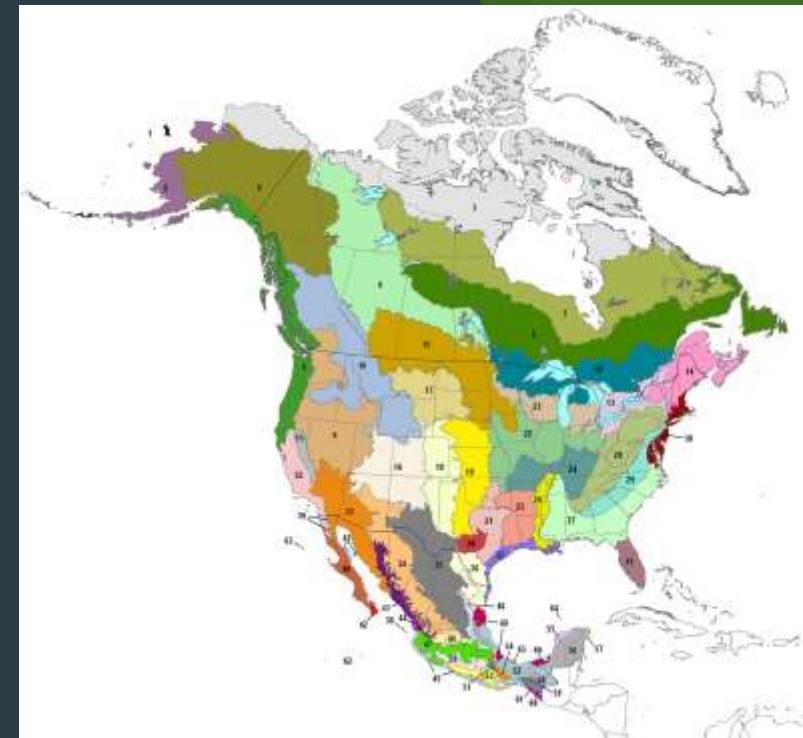
Oaks and Prairies Joint venture Coordinator

American Bird Conservancy

Round Rock, TX

# Scale

- ▶ Continent
- ▶ Country
- ▶ **Ecoregion**
- ▶ **Province/State**
- ▶ **County/City**
- ▶ Farm/Ranch
- ▶ Field
- ▶ Nest Site
  
- ▶ Space and Time



# Central Grasslands

- ▶ Central Flyway
- ▶ “Grasslands”
  - ▶ Grassland
  - ▶ Short-, Mixed-, and some Tallgrass Prairie
  - ▶ Savanna
  - ▶ Shrub-grass
  - ▶ Desert grass



# Central Grasslands

- ▶ Canada (3 Provinces)
  - ▶ Alberta, Saskatchewan, Manitoba
- ▶ United States (10 States)
  - ▶ Montana, North Dakota, South Dakota, Wyoming, Nebraska, Kansas, Colorado, Oklahoma, New Mexico, Texas
- ▶ Mexico (8+ States)
  - ▶ Chihuahua, Coahuila, Nuevo León, Durango, Zacatecas, San Luis Potosí, Guanajuato, Querétaro
- ▶ South to North = 3500km, 2175 miles; 35 hours driving
- ▶ East to west = 885km, 550 miles



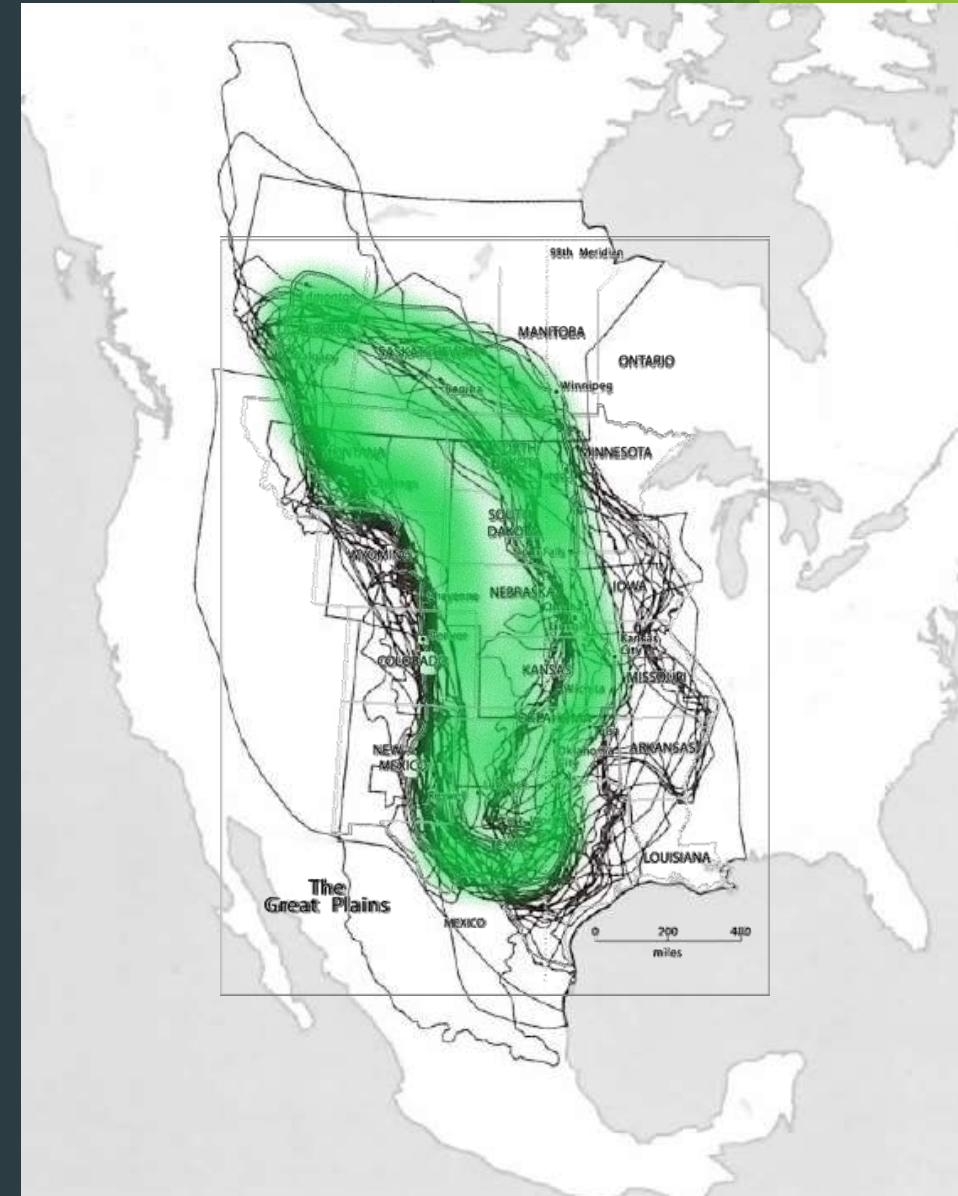
# Great Plains

- ▶ Great Plains  
1,300,000 km<sup>2</sup> (500,000 sq mi)
- ▶ Chihuahuan Desert  
362,600 km<sup>2</sup> (140,000 sq mi)
- ▶ 1.7 million km<sup>2</sup> or  
420,079,148 acres
  
- ▶ Mexico City 1000 times
- ▶ Texas 5.5 times
- ▶ Saskatchewan 2.2 times



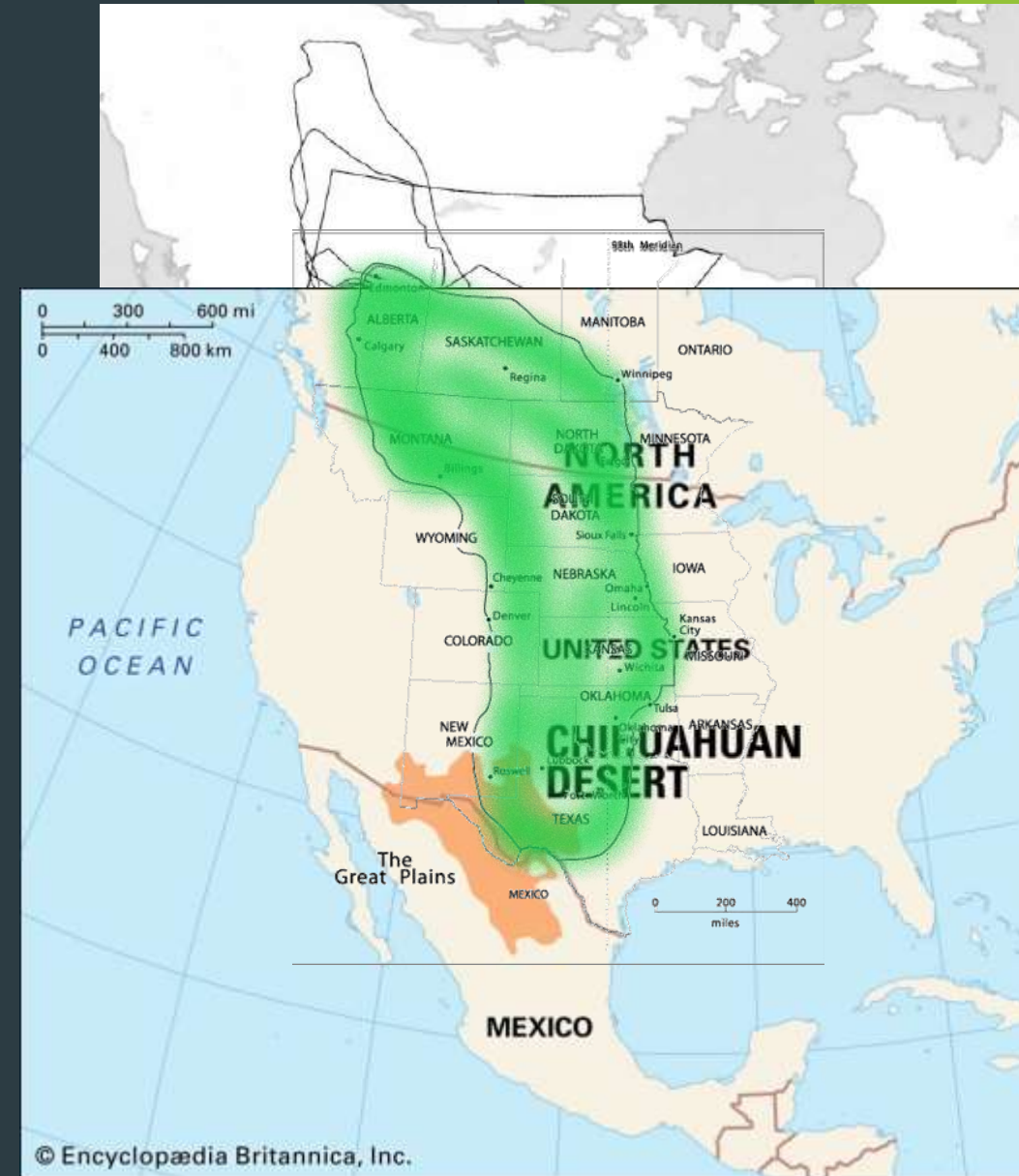
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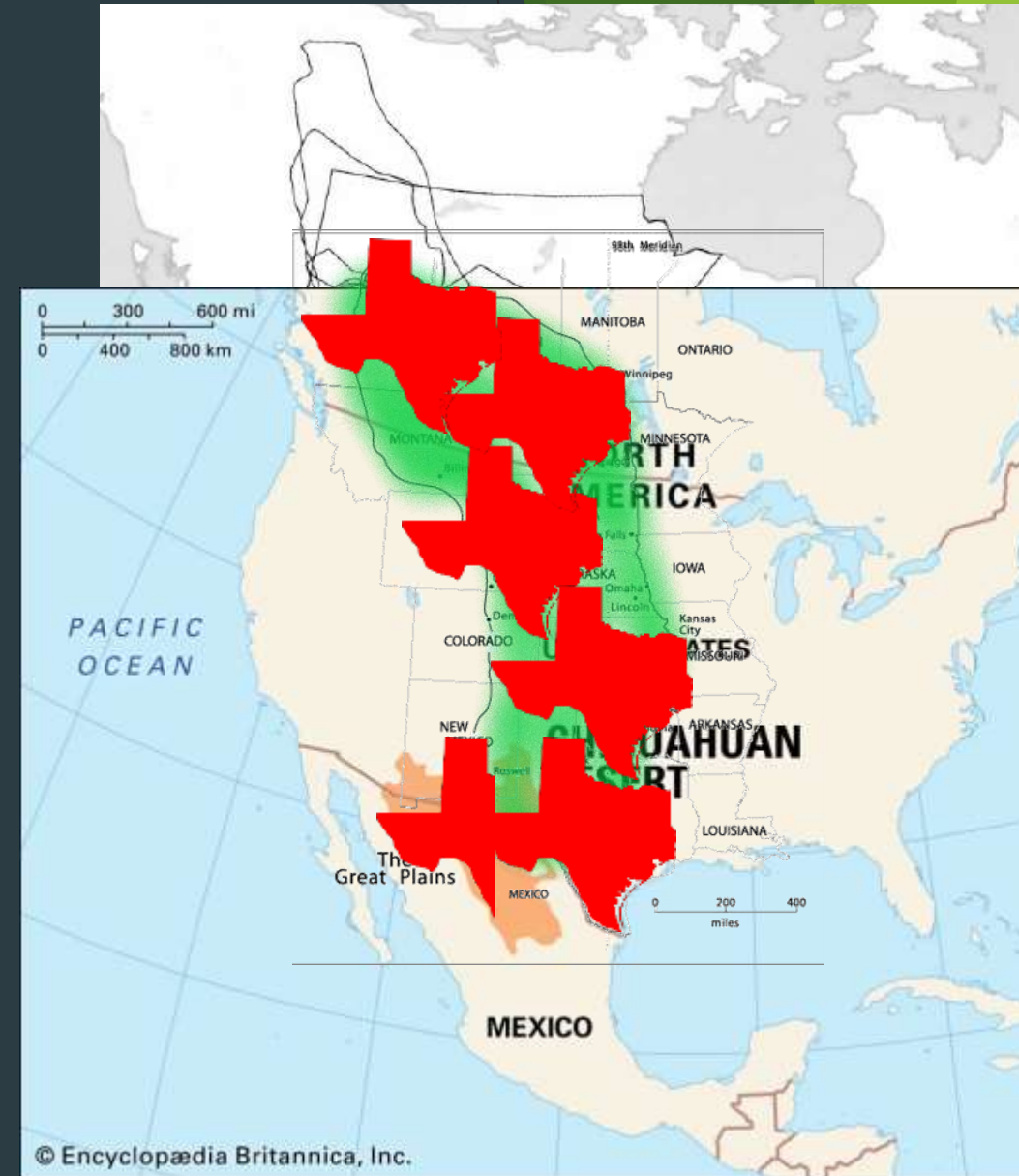
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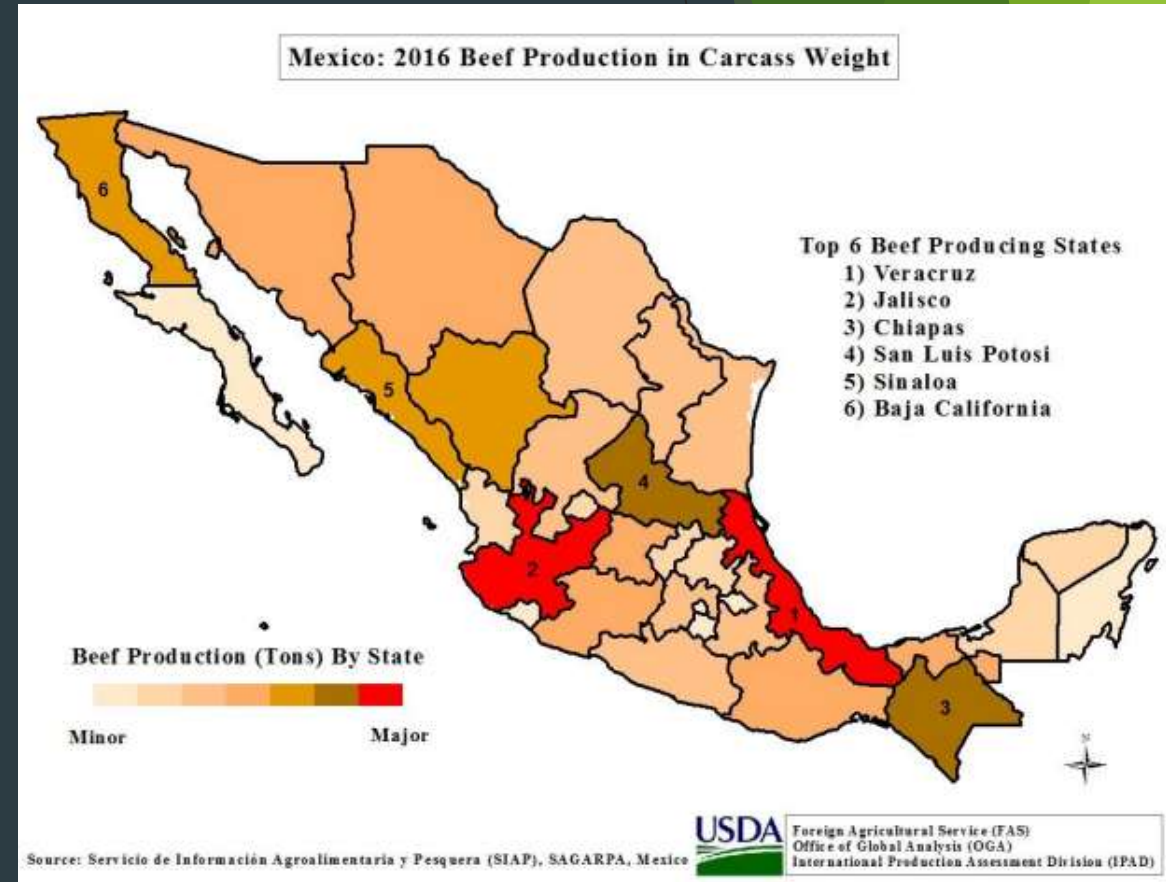
# People and cattle

State	Human	Cattle	Cattle/person
South Dakota	844,877	3,650,000	4.32
Nebraska	1,868,516	6,150,000	3.29
Montana	1,015,165	2,550,000	2.51
North Dakota	723,393	1,770,000	2.45
Wyoming	582,658	1,270,000	2.18
Kansas	2,893,957	5,800,000	2.00
Oklahoma	3,850,568	4,300,000	1.12
New Mexico	2,085,287	1,290,000	0.62
Colorado	5,268,367	2,480,000	0.47
Texas	26,448,193	10,900,000	0.41
<b>Province</b>			
Alberta	4,067,175	4,730,000	1.16
Saskatchewan	1,098,352	2,220,000	2.02
Manitoba	1,278,365	1,060,000	0.83
<b>TOTAL</b>	<b>52,024,873</b>	<b>48,170,000</b>	<b>0.93</b>



# People and cattle

State	Human	Cattle
Mexico		16,605,000
Chihuahua	3,556,574	
Coahuila	2,748,391	
Nuevo León	4,653,458	
Durango	1,754,754	
Zacatecas	1,579,209	
San Luis Potosí	2,717,820	
Guanajuato	5,486,372	
Querétaro	1,827,937	
Sonora	2,850,330	
<b>TOTAL</b>	<b>27,174,845</b>	

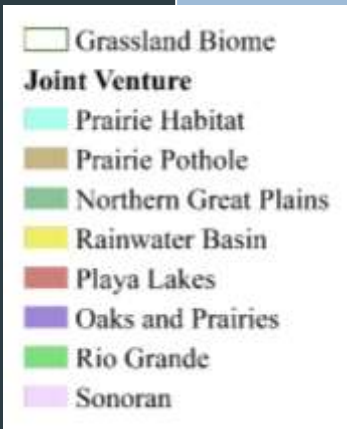
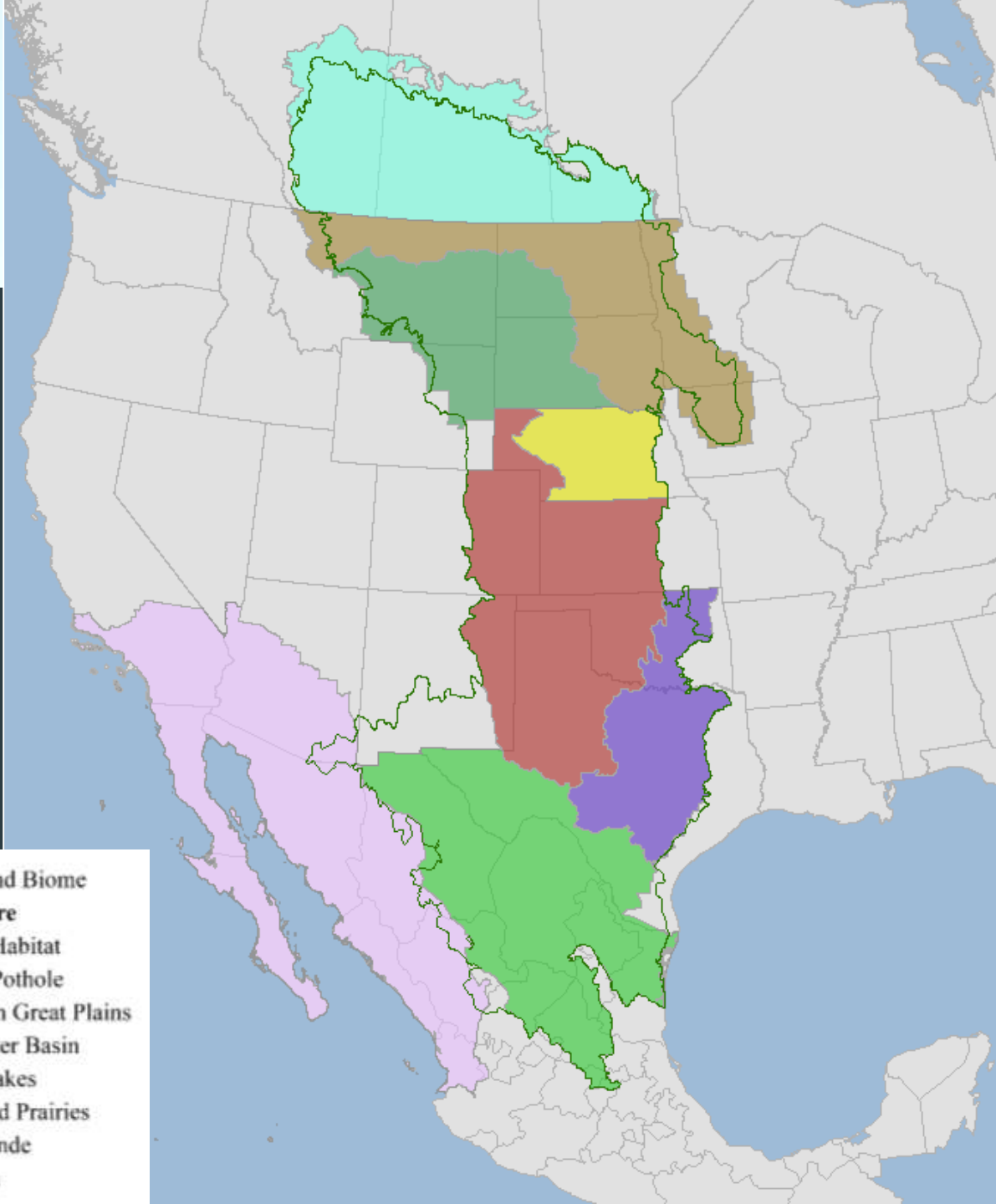


# Tribal and Indigenous Nations



<https://www.npr.org/sections/codeswitch/2014/06/24/323665644/the-map-of-native-american-tribes-youve-never-seen-before>

Aaron Carapella, a self-taught mapmaker in Warner, Okla., has designed a map of Native American tribes showing their locations before first contact with Europeans.



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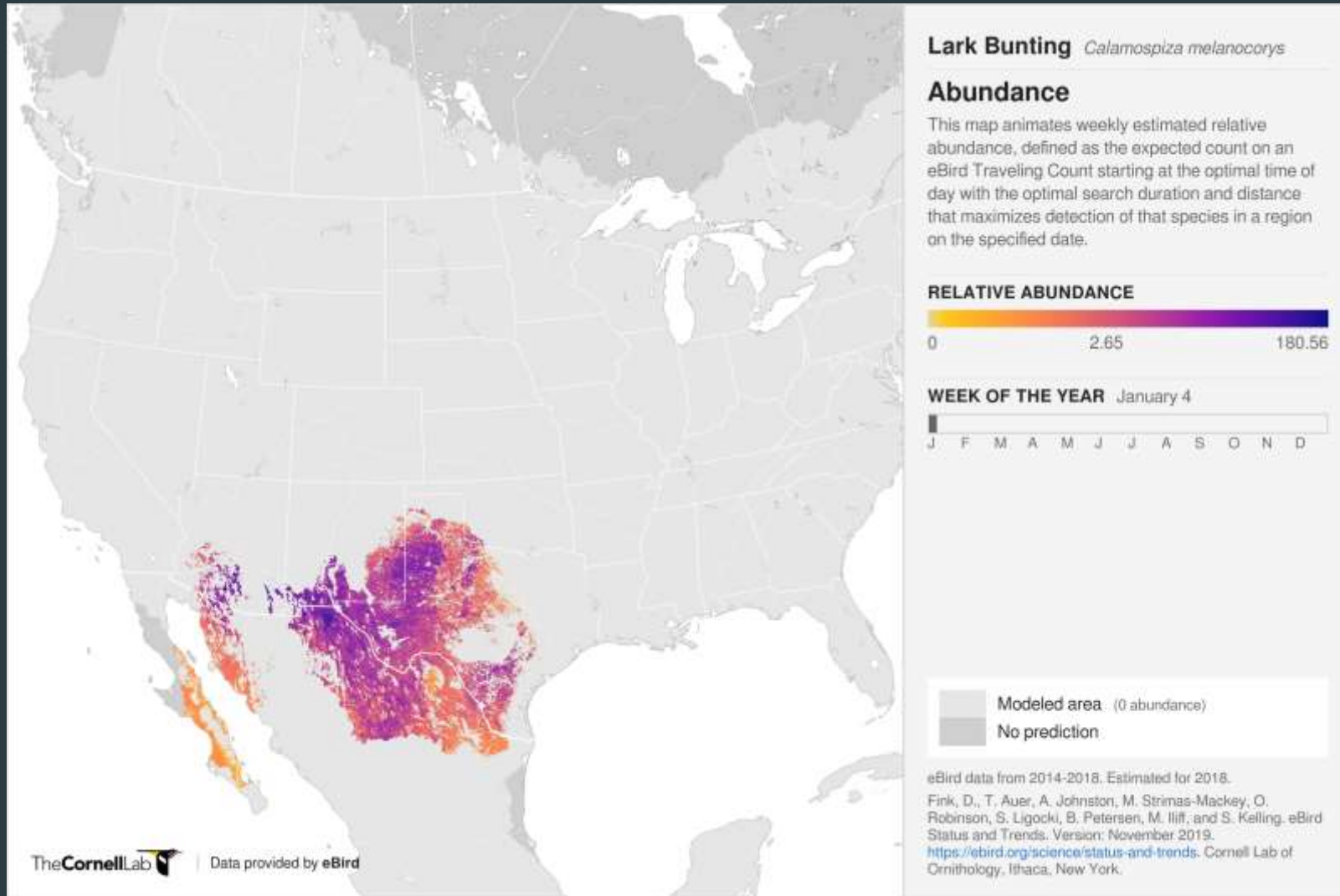
**Sonoran JV**

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# Lark Bunting

12,000,000 global population

94.0% Breeding  
99.8% Non-breeding  
Half life 16 years



Breeding adult male. Photo: Tom Benson/Flickr (CC BY-NC-ND-2.0)

# Birds as indicators of the Central Grasslands

	Total population
▶ McCown's Longspur	840,000
▶ Sprague's Pipit	1,400,000
▶ Baird's Sparrow	3,400,000
▶ Chestnut-collared Longspur	3,100,000
▶ Lark Bunting	12,000,000

## 2/3 of the Global population in Central Grasslands

▶ Grasshopper Sparrow	34,000,000
▶ Loggerhead Shrike	7,000,000

## Resident birds

▶ Greater Prairie-Chicken	360,000
▶ Northern Bobwhite	4,400,000
▶ Scaled Quail	5,100,000



Many grassland species that breed in the Great Plains depend upon the Chihuahuan grasslands during winter. Map from Partners in Flight, Saving our Shared Birds, 2010

# Roadmap

- ▶ Not a lot of detail
- ▶ Can see major landmarks
- ▶ Can see major connections
- ▶ Identify areas where things are working well
- ▶ Identify areas that need work
- ▶ Think Globally, Act Locally—
- ▶ Plan our Roadmap for something in the middle

