

MINNESOTA STATE FOSSIL CAMPAIGN ———— 2022 ————



INTRODUCTION

Minnesota is one of just six states in the U.S. without an official state fossil. The Science Museum of Minnesota is leading the effort to change that.

To kick off its 2021 Days of the Dinosaurs theme, the Science Museum invited its audiences to get smart about Minnesota's ancient life. The ultimate goal? Choosing a favorite to nominate as the official state fossil. Nine fossil candidates from around the state—from the Crow Shark to the Columbian Mammoth—had their own campaign pages at smm.org, along with light-hearted campaign videos that brought an innovative civics lesson to life.

Next came the voting. More than 11,000 people raised their voices for their favorite fossil candidates, and on National Fossil Day 2021, the museum revealed the results: the Giant Beaver is the people's choice for Minnesota's official state fossil.

PUBLIC AWARENESS CAMPAIGN

Introducing the nine candidates for Minnesota's official state fossil:



Ancient Bison: This ancient species is one of the “youngest” on the list. It was likely related to the modern bison; scientists are working on making that link. It lived in central and southern Minnesota 60,000–4,270 year ago.



Endoceras: This squid-like creature lived in the Twin Cities area and to the south 450 million years ago during the Ordovician Period.



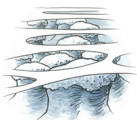
Trilobite (*Dikelocephalus minnesotensis*): This sea creature, which looked like a many-legged insect, lived on the ocean bottoms in what's now the St. Croix River Valley and southern Minnesota around 500 million years ago.



Scimitar-toothed cat (*Homotherium serum*): This lion-sized predator had large teeth - but not as large as the saber-toothed cat! It lived in southeastern Minnesota during the last ice age.



Crow Shark (*Squalicorax*): This medium-sized shark lived in and around the Mesabi Iron Range during the Cretaceous Period (100–90 million years ago). It dined on fish, pterosaurs, and even dinosaurs.



Mary Ellen Jasper (Stromatolite): These fossilized mounds of bacteria pumped oxygen into the atmosphere during the early days of life on Earth. Stromatolites are found in northern Minnesota and in the areas around Red Wing. They first arose around 1.9 billion years ago, and in some parts of the world, they still live today.



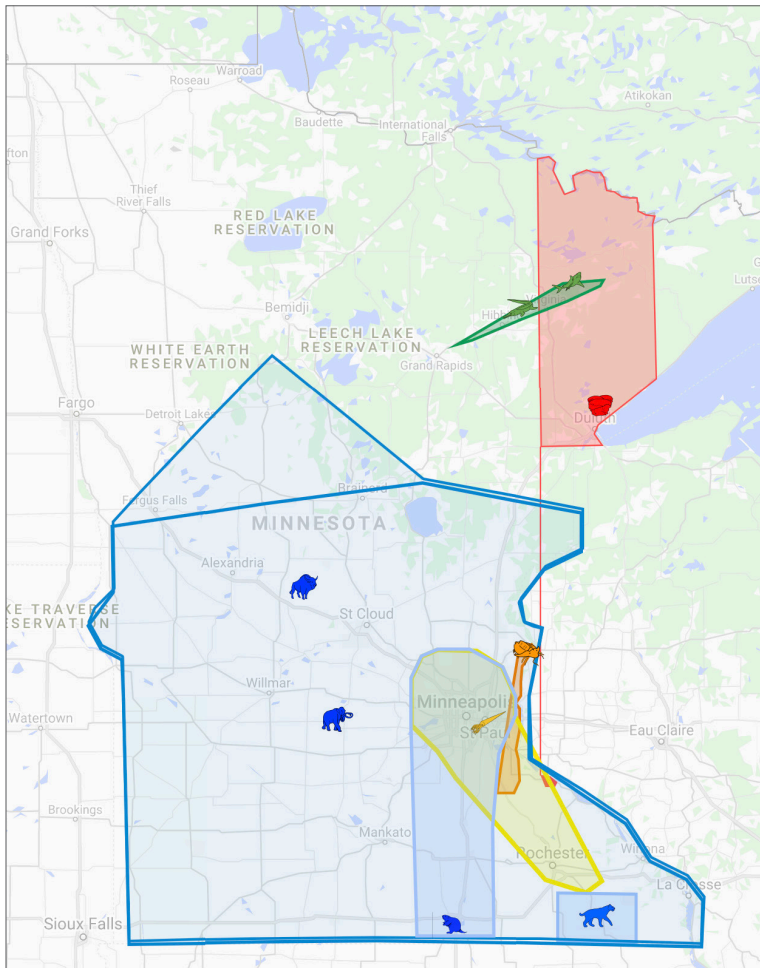
Columbian Mammoth (*Mammuthus columbi*): This giant, found in central and southern Minnesota between 2 million and 12,000 years ago, was less hairy than the more commonly-known Woolly Mammoth.












Giant crocodile-relative (*Terminonaris robusta*): This fish-eating crocodylian with a long, narrow snout made its home on the Mesabi Iron Range during the Cretaceous Period (100–90 million years ago).



Giant beaver (*Castoroides ohioensis*): This relative of the modern beaver was the size of a small bear! It roamed the Twin Cities area and southern Minnesota during the last ice age.



Minnesota State Fossil Candidates

-  Stromatolite
-  Trilobite (*Dikelocephalus minnesotensis*)
-  *Endoceras*
-  Crow Shark (*Squalicorax*)
-  *Terminonaris*
-  Scimitar-toothed cat (*Homotherium serum*)
-  Columbian Mammoth (*Mammuthus columbi*)
-  Ancient Bison
-  Giant beaver (*Castoroides ohioensis*)

Audiences did their research and cast their votes

The voting period kicked off in mid-August and concluded in late September. Voting was open to individuals and classroom groups. During the extensive public awareness campaign, the museum invited exploration and voting on site and in its email newsletters and social media channels.

Audiences eagerly learned about the state’s prehistoric populations. The State Fossil landing page on smm.org received nearly 21,000 pageviews, and the individual candidate pages, which featured basic information, range, and light-hearted campaign videos for each candidate, brought in nearly 30,000 pageviews. The campaign reached 63,500 social media followers. Voters represented 415 of Minnesota’s zip codes.

With nearly 11,500 votes cast, the top five vote-getters were the Giant Beaver (25%), the Ancient Bison (16%), the Trilobite (11%), the Scimitar-Toothed Cat (11%), and the Mary Ellen Jasper (10%).

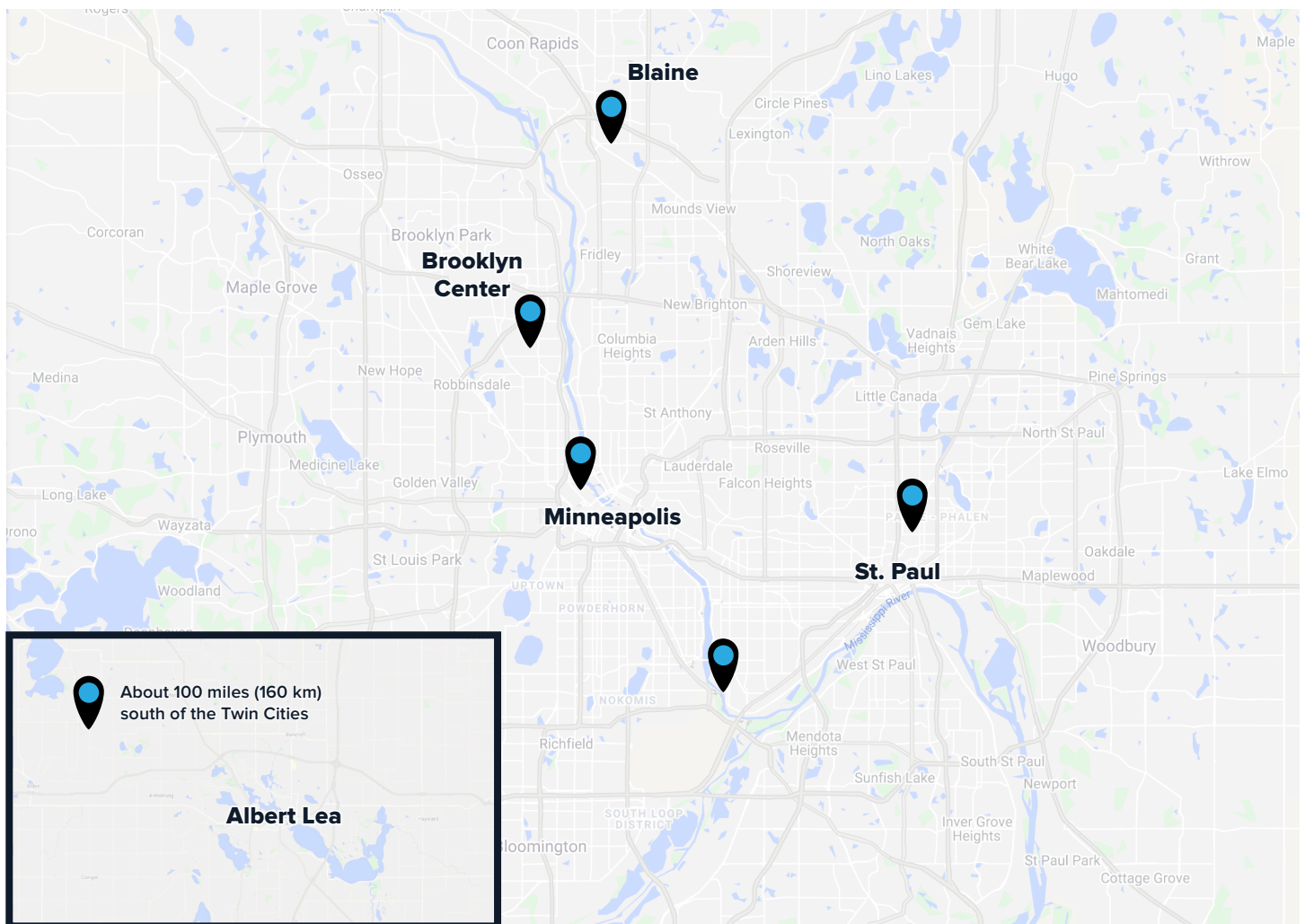
THE PEOPLE'S CHOICE

GIANT BEAVER (*Castoroides ohioensis*)

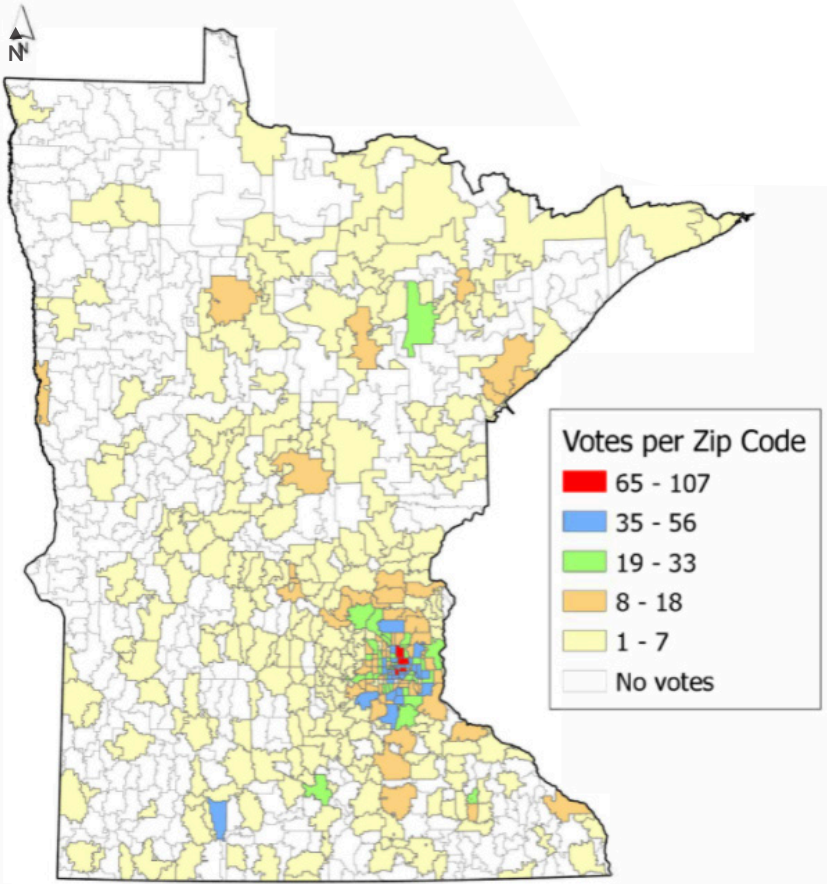
The Giant Beaver lived in North America from about 2.58 million years to 10,150 years ago during the Pleistocene Epoch, otherwise known as the Ice Ages. This rodent of unusual size was as large as a black bear and inhabited waterways and the developing glacial lakes as the ice receded across the state. Minnesota has an excellent record of the Giant Beaver, including nearly complete skeletons found in each of the Twin Cities. Additional material has been recovered in Blaine and Freeborn County. As beavers constitute a vital part of the modern ecosystem of Minnesota, so did the Giant Beaver during a time when massive mammals roamed our fair state.



LOCATIONS OF GIANT BEAVER FOSSILS IN MINNESOTA



STATE FOSSIL VOTERS BY ZIP CODES



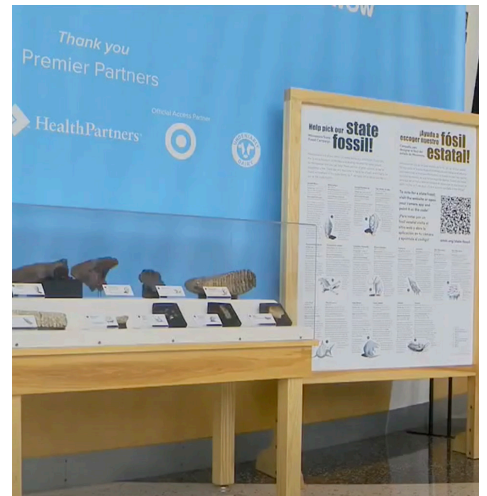
- Total of 11,452 votes
 - 9% outside Minnesota
- 415 total Minnesota zip codes

TOP MN ZIPS	ZIP GEOGRAPHY
55112	New Brighton/ Mounds View
55104	St. Paul- Univ/ Midway
55406	Minneapolis- E Lake
55113	Roseville
55407	Minneapolis- So Cent/ 48
55414	Minneapolis- Southeast
55124	Apple Valley
55044	Lakeville
55125	Woodbury
55108	St. Paul- Falcon Hts

CALL TO ACTION

Studying the past helps us prepare for the future. Minnesota’s fossil record is rich with evidence that gives us important clues about the complex dynamics between life and climate through time. Yet we’re one of only a handful of states without an official state fossil.

After an extensive public awareness campaign in fall 2021 about Minnesota’s complex and varied prehistoric life, Minnesotans voted for their favorite Minnesota fossil. The Science Museum of Minnesota respectfully request your support of HF2979/SF3129 to certify the voting public’s choice of the Giant Beaver as Minnesota’s official State fossil.





120 West Kellogg Boulevard
St. Paul, MN 55102

smm.org