





Land and Name Acknowledgement

The grasslands on which Konza Prairie LTER research is focused have been a home to people for thousands of years, including many named and unnamed peoples who lived and hunted here prior to European settlement. Indigenous people of the Kaw (Kanza) Nation inhabited and stewarded this area until their forced removal between 1846 and 1872, when they were relocated to a small reservation in what is now Oklahoma. The depopulated Kaw land was subsequently used to finance the Land-Grant University system under the Morrill Act of 1862, including Kansas State University, which administers the Konza Prairie LTER Program. Our LTER research program operates under a name, "Konza", that is derived from the name of the Kaw, or "Kaánze", People.

The Konza Prairie LTER acknowledges the immemorial connection of Indigenous peoples with these lands, and we pledge to respect and honor the past and current legacy, cultural history, and knowledge of the Kaw Nation. Through our professional capacity as scientists and educators, we will work to increase our knowledge of the human legacy of these lands, and in turn, will teach this history to others. The beauty of this land inspires our work to understand the tallgrass prairie and support conservation of this ecosystem. However, this inspiration also serves as a reminder of the Indigenous human history that has shaped the modern landscape, and the influence that our current actions will have on the prairie of the future.











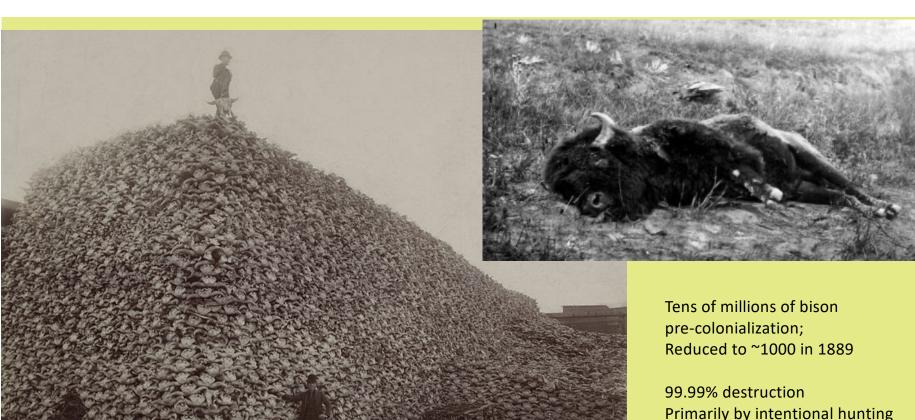
As documented by Hornaday:

"Desultory Destruction" (restriction of eastern populations)

followed by "Systematic Slaughter" of Great Plains buffalo

William Temple Hornaday: Chief Taxidermist, US National Museum





A pile of American bison skulls in the mid-1870s. Photo: Wikipedia; dead buffalo ca. 1872, National Archives

Primarily by intentional hunting

Consequences: Native Americans dependent on the U.S. Government Unquestionably a great many thousand buffaloes were killed annually by the settlers of Kansas, Nebraska, Texas, New Mexico, and Colorado, and the mountain Indians living west of the great range. The number so slain can only be guessed at, for there is absolutely no data on which to found an estimate. Judging merely from the number of people within reach of the range, it may safely be estimated that the total number of buffaloes slaughtered annually to satisfy the wants of this heterogeneous element could not have been less than fifty thousand, and probably was a much higher number. This, for the three years, would make one hundred and fifty thousand, and the grand total would therefore be about as follows:

The slaughter of the southern herd.

Killed by "professional" white hunters in 1872, 1873, and 1874	3, 158, 730
Killed by Indians, same period	390,000
Killed by settlers and mountain Indians	150,000

By the close of the hunting season of 1875 the great southern herd had ceased to exist. As a body, it had been utterly annihilated. The main body of the survivors, numbering about ten thousand head, fled southwest, and dispersed through that great tract of wild, desolate, and inhospitable country stretching southward from the Cimarron country across the "Public Land Strip," the Pan-handle of Texas, and the Llano Estacado, or Staked Plain, to the Pecos River. A few small





SLAUGHTER OF BUFFALO ON THE KANSAS PACIFIC RAILROAD.

Reproduced from "The Plains of the Great West," by permission of the author, Col. R. I. Dodge.



Report of National Museum, 1887.—Hornaday.

PLATE II.



HEAD OF BUFFALO BULL.

From specimen in the National Museum Group.

Reproduced from the Cosmopolitan Magazine, by permission of the publishers.

Number of American bison	running wild a	ind unprotected o	n January 1, 1889.
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In the Pan-handle of Texas	25
In Colorado	20
In southern Wyoming	26
In the Musselshell country, Montana	10
In western Dakota	4
Total number in the United States	
Total in all North America	635

Add to the above the total number already recorded in captivity (256) and those under Government protection in the Yellowstone Park (200), and the whole number of individuals of *Bison americanus* now living is 1,091.

In these days of railroads and numberless hunting parties, there is not the remotest possibility of there being anywhere in the United States a herd of a hundred, or even fifty, buffaloes which has escaped observation. Of the eighty-five head still existing in a wild state it may safely be predicted that not even one will remain alive five years hence. A buffalo is now so great a prize, and by the ignorant it is considered so great an honor (?) to kill one, that extraordinary exertions will be made to find and shoot down without mercy the "last buffalo."

There is no possible chance for the race to be perpetuated in a wild state, and in a few years more hardly a bone will remain above ground to mark the existence of the most prolific mammalian species that ever existed, so far as we know.

VII. EFFECTS OF THE EXTERMINATION.

The buffalo supplied the Indian with food, clothing, shelter, bedding, saddles, ropes, shields, and innumerable smaller articles of use and ornament. In the United States a paternal government takes the place

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REPORT OF NATIONAL MUSEUM, 1887.

of the buffalo in supplying all these wants of the red man, and it costs several millions of dollars annually to accomplish the task.

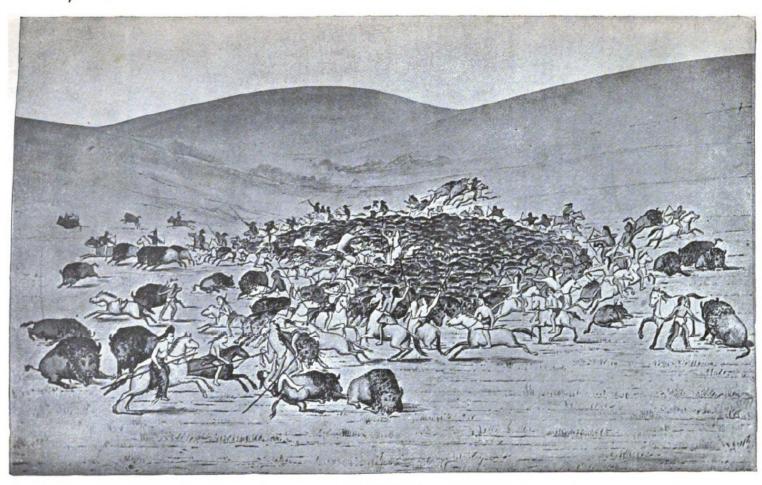
The following are the tribes which depended very largely—some almost wholly—upon the buffalo for the necessities, and many of the luxuries, of their savage life until the Government began to support them:

Sioux	30, 561	Kiowas and Comanches	2,756
Crow	3, 226	Arapahoes	1,217
Piegan, Blood, and Blackfeet			
Cheyenne)	[17] [27] [27] [27] [27] [27] [27] [27] [2	~~~
Gros Ventres	856	Omaha	1,160
Arickaree	517	Pawnee	998
Mandan		Winnebago	1,222
Bannack and Shoshone	2,001		
Nez Percé	1,460	Total	54,758
Assinniboine	1.688		

This enumeration (from the census of 1886) leaves entirely out of consideration many thousands of Indians living in the Indian Territory and other portions of the Southwest, who drew an annual supply of meat and robes from the chase of the buffalo, notwithstanding the fact that their chief dependence was upon agriculture.

The Indians of what was once the buffalo country are not starving and freezing, for the reason that the United States Government supplies them regularly with beef and blankets in lieu of buffalo. Does any one imagine that the Government could not have regulated the killing of buffaloes, and thus maintained the supply, for far less money than it now costs to feed and clothe those 54,758 Indians?

Hornaday, 1889



THE SURROUND.

From a painting in the National Museum by George Catlin.

Kaáⁿze le words for "hunt"

dáble vi hunt, go on a hunt

gaxláⁿ vi migrate, go an on extensive hunting expedition with many or all of the tribe; to go with a large party, each man taking his household

Gaxlá ayábe. They went; they picked up everything and went. MR on JOD

Many words about movement, travel, or orientation to large spaces include buffalo in the example sentences



Kaáⁿze le words for buffalo

ce dóⁿga

ce míⁿga

ce míⁿxoge

ce zhiⁿga



Kaáⁿze Íe words for buffalo

ce dónga buffalo bull

ce mínga buffalo cow

ce míⁿxoge a hermaphrodite buffalo

ce zhinga buffalo calf



Translation: Always consider context

miⁿxóge

1) catamite, male or female

MR: "'Miⁿxóge' is, you know, between a man and a woman."

2) homosexual, gay, lesbian; hermaphrodite

Most likely based on scientific understanding & literature: Mate competition; dominance behavior

Vervaecke, H., Roden, C. 2006. Going with the herd: same-sex interaction and competition in American bison. In: Homosexual Behaviour in Animals. An Evolutionary Perspective. Ed. V. Sommer., P. Vasey. Cambridge University Press.

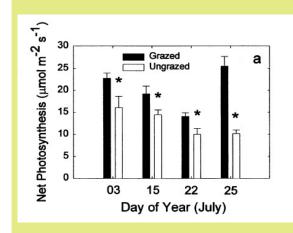


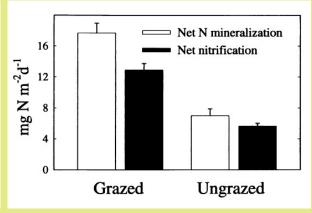
Bison = Greater Fertility & Biodiversity

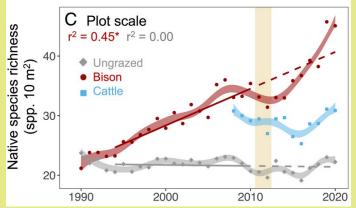
The Keystone Role of Bison in North American Tallgrass Prairie

Bison increase habitat heterogeneity and alter a broad array of plant, community, and ecosystem processes

Alan K. Knapp, John M. Blair, John M. Briggs, Scott L. Collins, David C. Hartnett, Loretta C. Johnson, and E. Gene Towne







Knapp et al. 1998; also McNaughton et al. 1988, Ratajcak et al. 2022, many others...

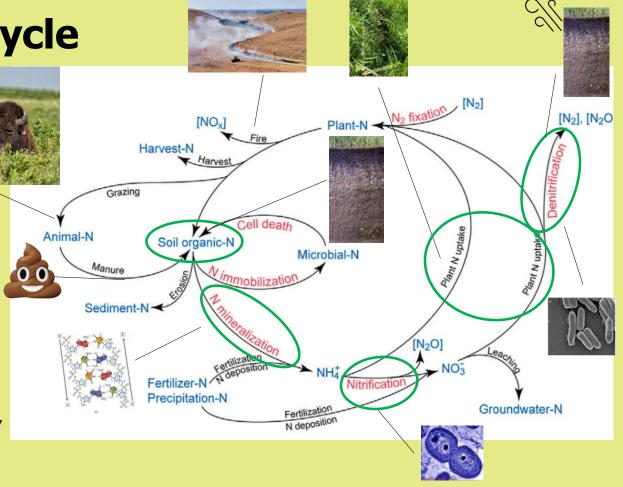


 N is a necessar life

N is a building block of protein

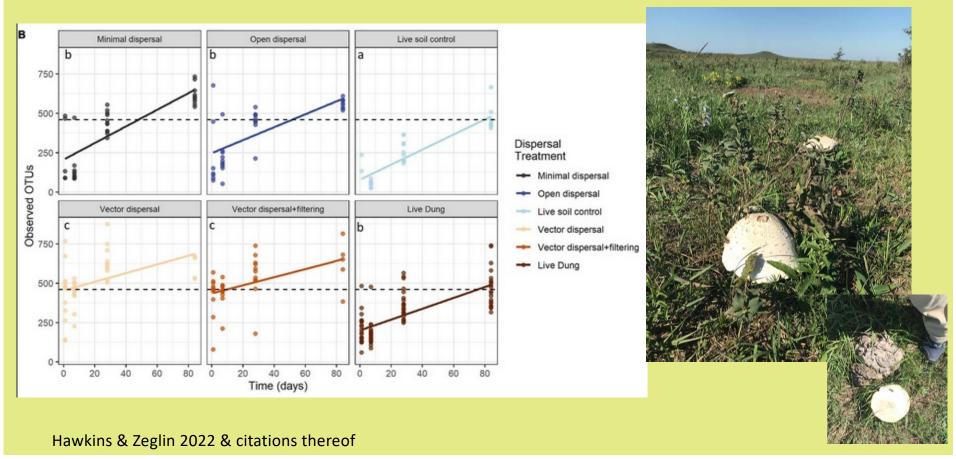
 Soil microbes and grazing animals transform N

 Transformations include mineralization, nitrification, and denitrification



Schematic of the N cycle from Robertson and Groffman 2015; Amino groups from wiki commons; SEM Nitrosomonas picture from Yuichi Suwa from wiki commons; SEM Psudomonas spp. from wiki commons

Soil microorganisms: More diverse with dung!





With the extermination of the bison,
North American grassland ecosystems were changed dramatically and completely

including the loss of the human connection

