



## 2022 Minnesota Elk Harvest Report

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### Introduction

Legislation passed in 2016 (MN Statute 97B.516b) directed the Department of Natural Resources (DNR) to “...not manage an elk herd in Kittson, Roseau, Marshall, or Beltrami counties in a manner that would increase the size of the herd, including adoption or implementation of an elk management plan designed to increase an elk herd, unless the commissioner of agriculture verifies that crop and fence damages paid under section 3.7371 and attributed to the herd have not increased for at least two years.” In response, DNR adopted an Interim Strategic Management Plan for Elk in 2016 that will maintain a status quo in elk numbers at the current population estimates. This set the Kittson Central herd goal at 50-60 elk. Plans will be made to update the Strategic Management Plan for Elk.

DNR conducts an annual aerial elk population survey every winter, which consists of a minimum count of all elk observed during the survey. The survey was not completed in 2021 due to COVID restrictions, but was resumed in 2022. DNR staff use a single fixed-wing aircraft to conduct aerial elk surveys for the Grygla and Kittson elk herds. The survey for the Kittson Central herd was completed in February of 2022, and the area surveyed was consistent with past years. See Table 1 and Chart 1 for Kittson Central survey results. Total elk recorded within the Kittson Central block in 2022 was 84 and included: 51 antlerless and 33 bulls. Given the minimum elk count was above the population goal of 50-60 elk, the DNR continued with implementation of higher quotas and additional seasons for 2022 consistent with past seasons.

In 2022, there were two established zones open for elk hunting in Minnesota: 1) Zone 20 - Kittson Central and 2) Zone 30 - Kittson Northeast (Figure 1). Elk hunting in Zone 10 - Grygla, has been closed since 2013 because the population is below goal (Figure 2). In an effort to move the Kittson Central herd towards goal range, this year the number of seasons held in Zone 20 was four regular season hunts. For the Zone 20 - Kittson Central there were eight license/season date options: 1) Season A/E - August 27 through September 4, 2) Season B/F - September 10 through September 18, 3) Season C/G - September 24 through October 2, 4) Season D/H - October 8 through October 16. There was one regular season hunt in Zone 30 - Kittson Northeast for two bull-only licenses: 1) Season I - September 10 through September 18. All of the seasons were 9 days in length, including two weekends. These dates were also chosen to avoid conflict with the Youth Firearm Deer Season on October 20 through October 23 and the Regular Firearm Deer Season November 5 through November 13. Overall, hunter success rates were lower this year.

## **Hunting season options and license lottery**

A total of 30 licenses were available and 3,691 individuals or parties (up to two hunters) applied for the opportunity to hunt elk in Minnesota (Table 2). Applicants were given the opportunity to select both zone and season in which to hunt. Seasons in Zone 20 were also split between either-sex and antlerless-only licenses. This allowed applicants to choose the type of license desired during their application.

The Minnesota elk lottery is a three-step process. First, a lottery for applicants that had applied for 10 years or more (20% = 5 licenses offered in 2022) is conducted. The 10-year lottery is run when total licenses available in all zones combined is equal to or greater than five (20% of 5 licenses = 1 license for 10 year lottery pool). Once the 10 year applicant lottery is run, the second round was for qualifying landowner applicants for Zone 20 (20% = 5 licenses offered in 2022). The landowner lottery is run when total licenses within a Zone (Zone 20 or 30) is equal to or greater than five, thus it was run for Zone 20 in 2022, but not Zone 30. All remaining applicants not selected in the first two steps were then placed into the general drawing with all the other applicant names for the remaining elk licenses (60%) available in the zone and season they had selected on their application.

## **Hunter orientation and elk sample collection**

All elk hunters are required to attend a mandatory orientation session the Friday before a given hunt. At this session, DNR staff go over the logistics of the elk hunt and explain how we collect biological samples from their harvested animal. Hunters must register their animal in person within 24 hours at the local DNR office and provide biological samples. DNR staff help map the harvest location, provide a possession tag, and collect biological samples. DNR staff collect lymph nodes, the obex (brain stem), muscle, hair, and a tooth so an accurate age can be determined via cementum annuli. Alternative arrangements are made for the collection of some samples, if immediate collection would interfere with a hunter's planned taxidermy mount. DNR staff submit all biological samples to the DNR Wildlife Health Program for disease testing and other monitoring projects.

## **Elk harvest results**

In 2022, a total of 17 elk were harvested in Zones 20 and 30 (Table 3), for an overall hunter success rate of 54% for Zone 20 and 100% for Zone 30. Although success rates were lower than in the past, there was a gradual decrease in success rates for Zone 20 as the seasons progressed. Seven bull elk were taken from hunters using either-sex licenses for Zone 20, and 8 antlerless elk were taken by hunters using antlerless-only licenses. Two bull elk were taken by hunters using bull-only licenses for Zone 30. Long-term elk harvest for all zones is depicted in Tables 4, 5, and 6.

Table 1. Kittson Central (Zone 20) elk survey count, 2008-2022

<b>Year</b>	<b>Number of bulls surveyed</b>	<b>Number of antlerless surveyed</b>	<b>Total number surveyed</b>
2008	14	46	60
2009	16	29	45
2010	NO SURVEY COMPLETED THIS YEAR		
2011	12	31	43
2012	NO SURVEY COMPLETED THIS YEAR		
2013	17	28	45
2014	17	20	37
2015	18	16	34
2016	18	34	52
2017	16	45	61
2018	18	57	75
2019	33	61	94
2020	33	69	102
2021	NO SURVEY COMPLETED THIS YEAR		
2022	33	51	84

Chart 1. Kittson Central (Zone 20) elk survey count, 2008-2022

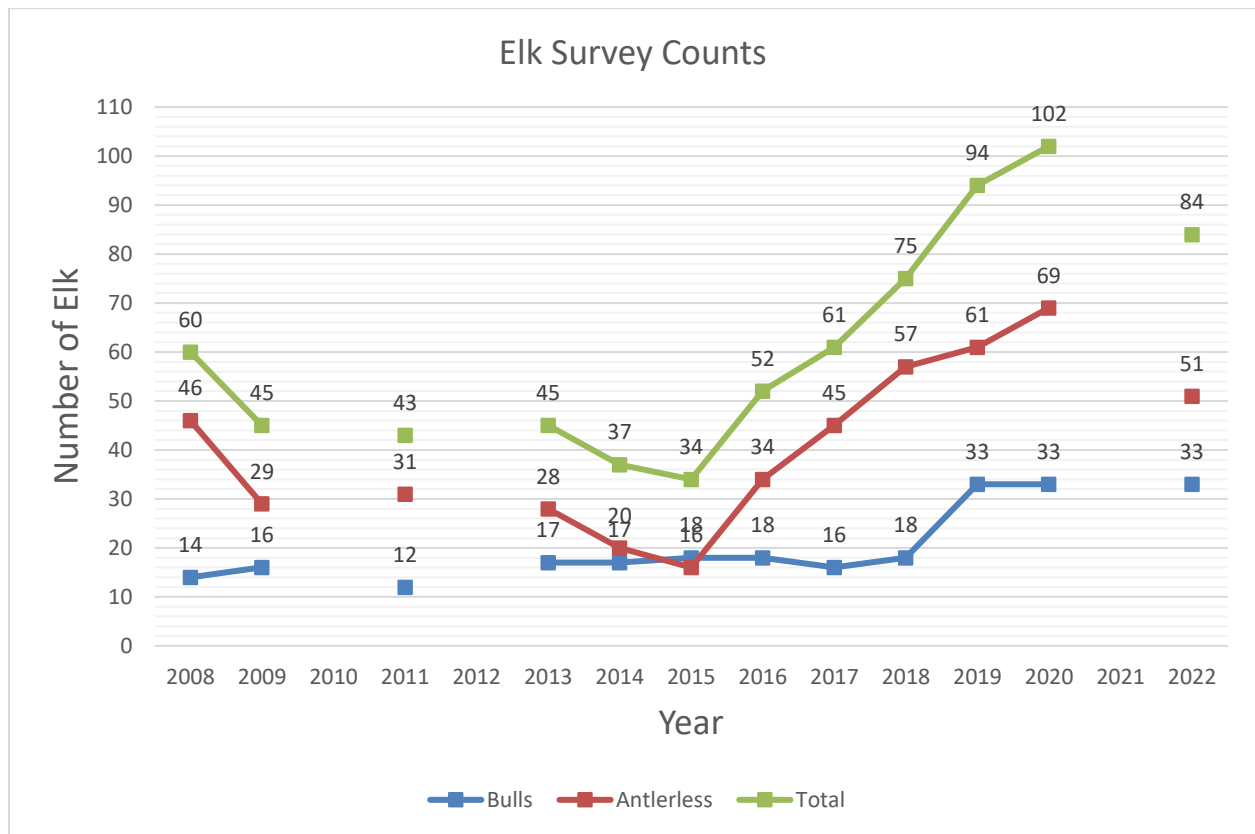


Table 2. License allocation and application numbers of the 2022 Minnesota elk seasons

Zone	Season Dates	Bull-Only	Either-Sex	Antlerless-Only	Total	Total Applicants
Zone 20	A: Aug 27-Sept 4	0	2	0	2	516
Zone 20	E: Aug 27-Sept 4	0	0	5	5	107
Zone 20	B: Sept 10-Sept 18	0	2	0	2	875
Zone 20	F: Sept 10-Sept 18	0	0	5	5	106
Zone 20	C: Sept 24-Oct 2	0	2	0	2	621
Zone 20	G: Sept 24-Oct 2	0	0	5	5	126
Zone 20	D: Oct 8-Oct 16	0	2	0	2	445
Zone 20	H: Oct 8-Oct 16	0	0	5	5	120
Zone 30	I: Sept 10-Sept 18	2	0	0	2	775
OVERALL	TOTAL	2	8	20	30	3,691

Table 3. Distribution of the 2022 Minnesota elk harvest.

**Kittson County Central Hunt  
Zone 20**

Season	Either-Sex Licenses	Antlerless Licenses	Bulls taken	Antlerless taken	Total elk taken	Success rate
Season A & E (Aug 27-Sept 4)	2	5	2	3	5	71%
Season B & F (Sept 10-Sept 18)	2	5	2	2	4	57%
Season C & G (Sept 24-Oct 2)	2	5	1	2	3	43%
Season D & H (Oct 8-Oct 16)	2	5	2	1	3	43%
<b>Total</b>	<b>8</b>	<b>20</b>	<b>7</b>	<b>8</b>	<b>15</b>	<b>54%</b>

**Kittson County Northeast Hunt  
Zone 30**

Season	Bulls-only Licenses	Antlerless Licenses	Bulls taken	Antlerless taken	Total elk taken	Success rate
Season I (Sept 10-Sept 18)	2	0	2	0	2	100%
<b>Total</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>100%</b>

Table 4. Grygla (Zone 10) elk harvests, 1987-2012

Year	Total Bull or Either-Sex Licenses	Total Bulls Harvested	Total Antlerless Licenses	Total Antlerless Harvested	Total Harvest	Hunter Success Rate
1987	2	1	2	1	2	50%
1996	2	2	7	6	8	89%
1997	5	1	5	2	3	30%
1998	4	2	0	0	2	50%
2004	1	1	4	2	3	60%
2005	1	0	4	0	0	0%
2006	2	2	6	2	4	50%
2007	0	0	6	6	6	100%
2008	2	2	10	6	8	67%
2009	2	2	12	12	14	100%
2010	2	1	5	3	4	57%
2011	2	2	3	0	2	40%
2012	2	1	3	0	1	20%

Table 5. Kittson Central (Zone 20) elk harvests, 2008-2022

Year	Total Bull or Either-Sex Licenses	Total Bulls Harvested	Total Antlerless Licenses	Total Antlerless Harvested	Total Harvest	Hunter Success Rate
2008	1	1	10	10	11	100%
2009	12	9	4	5	14	88%
2010	1	1	3	3	4	100%
2011	2	3	6	4	7	88%
2012	3	3	13	3	6	38%
2013	6	4	15	6	10	48%
2014	7	4	0	0	4	57%
2015	5	3	0	0	3	60%
2016	5	3	0	0	3	60%
2017	6	5	2	1	6	75%
2018	4	3	16	12	15	75%
2019	4	4	21	10	14	56%
2020	18	15	24	20	35	83%
2021	8	7	20	16	23	82%
2022	8	7	20	8	15	54%



Table 6. Kittson Northeast (Zone 30) elk harvests, 2012-2022

Year	Total Bull Licenses	Total Bulls Harvested	Hunter Success Rate
2012	2	1	50%
2013	2	2	100%
2014	2	2	100%
2015	2	2	100%
2016	2	2	100%
2017	5	4	80%
2018	2	2	100%
2019	2	1	50%
2020	2	2	100%
2021	2	2	100%
2022	2	2	100%

Figure 1. Kittson County Elk Hunt Zones.

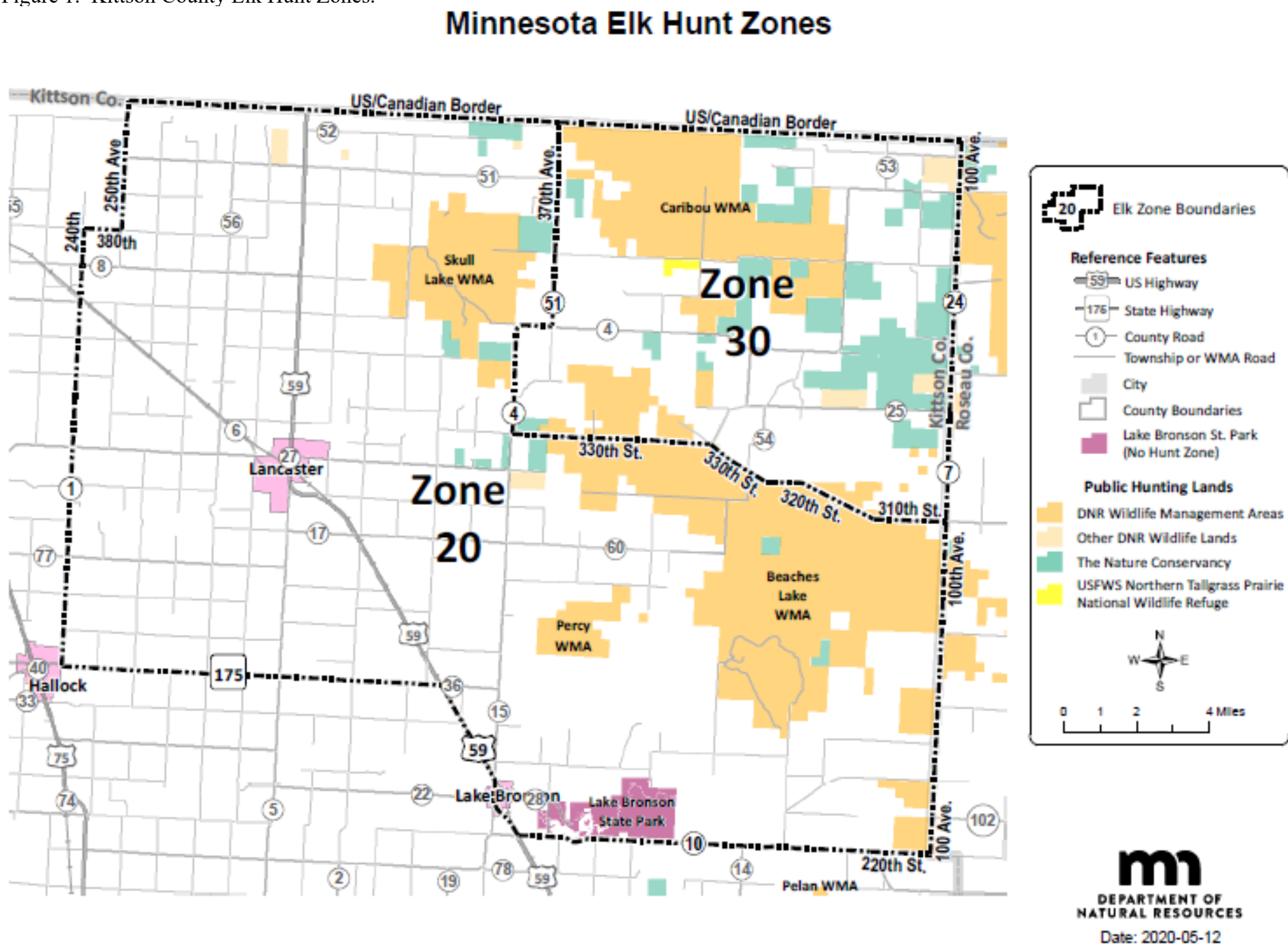


Figure 2. Grygla Elk Hunt Zone.

