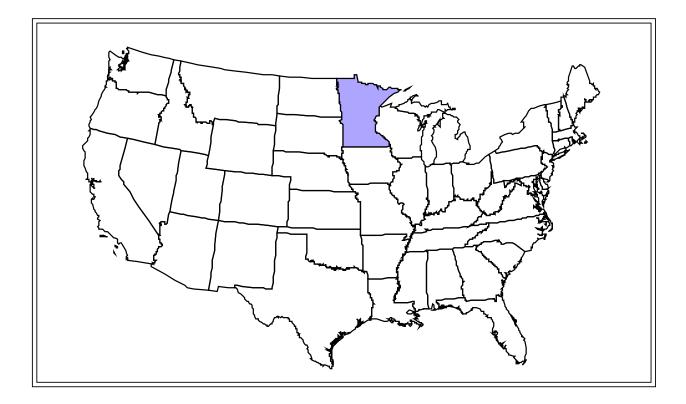
Observations on Minnesota's changing resident angler and hunter populations using licensing information from 1969 to 2013



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July 2014



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INTRODUCTION

Historical records on license purchases can be used to track overall participation trends in Minnesota resident angling and hunting. The historical license records with a resident/non-resident breakdowns extend back to 1969. This historical record is a product of the need to annually certify the number of Minnesota anglers and hunters with the U.S. FWS for federal aid apportionment.

Since 2000, Minnesota has licensed anglers and hunters through the Electronic Licensing System (ELS). ELS—currently used for the certification process described above—offers an opportunity to track the changing characteristics of Minnesota's hunters and anglers at a more detailed level. ELS annually stores information on every angler/hunter (age, gender, location of residence) and activity for which the participant is licensed (e.g., hunting small game, hunting deer with firearms). In ELS, license holders are assigned a unique customer identification number that permits tracking an individual from year to year. Minnesota "resident" license holders are assigned to a "nonresident" license) in all cases except one. The one exception is the pre-2013 24-hour fishing license (license code = 110), in which case the state of residence is used to identify resident anglers. If the state is "MN", the angler is a Minnesota resident; all other state codes are nonresident anglers. In 2013, a separate 24-hour license was created for residents (code = 110) and nonresidents (code = 139).

The order of topics is this report is as follows:

- Long-term resident participation trends for fishing and hunting from 1969 to 2013, including a comparison with the nation from 1991 to 2011.
- Recent resident participation trends for fishing and hunting by age, gender and region from 2000 to 2013.
- Trends in relicensing rates for resident anglers and hunters from 2000 to 2013. Included in this section are year-to-year participant retention rates, relicensing rates of lapsed participants, and an examination of the most recent year of participation for 2013 participants.

In the report, the focus is on tracking hunters and anglers aged 16 and over. Anglers need a license at age 16, and this is also the case for hunters. Some hunters, however, are licensed under 16. In pre-2013 versions of this report, a younger age class (12 to 15) was examined, but the extension in 2013 of "free" youth licenses to age 12 hunters precludes the ability to track that age cohort after 2012. This report, and all previous versions of this report, have excluded youth hunters (under age 16) licensed through free (no fee) licenses, the first of which appeared in 2009.

The report focuses on the "participation rate", which is the percent of the population that engages in an activity on an annual basis. The report uses licensing rates as a surrogate for participation rates, although the two are technically different (differences due to license buyers who do not participate, and participants who do not buy a required license). Licensing rates, however, should be an effective surrogate, because they are expected to track closely with participation rates. All of the participation information reported for Minnesota are licensing information (Reference 1). National participation information are true participation measures (Reference 2). Population data used to derive participation (or licensing) rates comes from the U.S. Census Bureau (Reference 3).

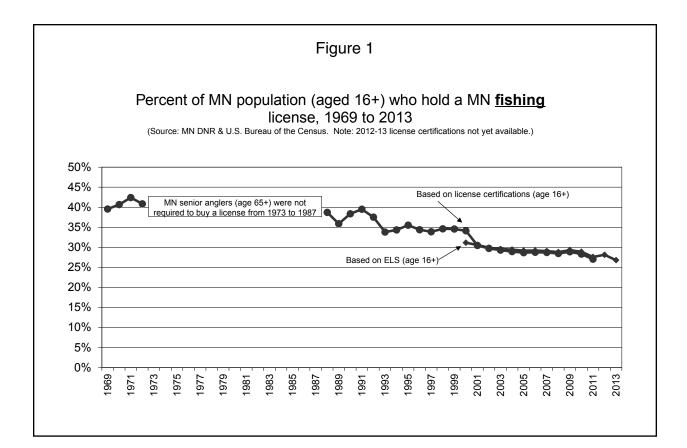
LONG-TERM PARTICIPATION TRENDS

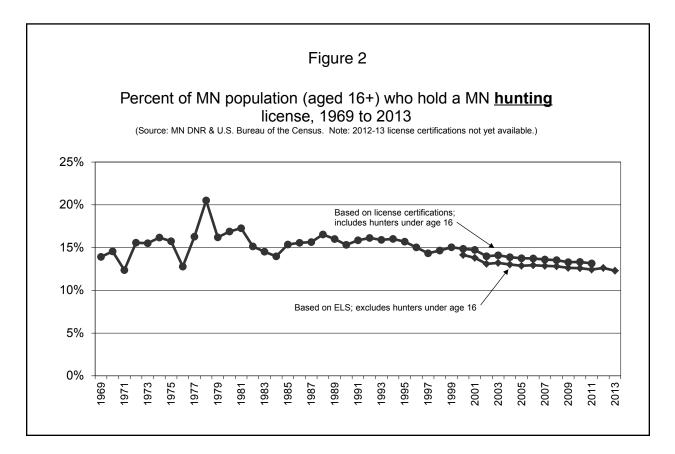
a. Minnesota resident anglers and hunters, 1969 to 2013

In the late 1960s and early 1970s, some 40 percent of Minnesotans (aged 16+) had a fishing license (Figure 1). From the mid 1970s to mid 1980s, the participation rate cannot be tracked, because seniors were not required to by a license. Since the mid 1980s, participation rates have fallen from the high 30 percents to the high 20 percents. Currently, 27 percent of Minnesotans (aged 16+) have a fishing license.

The fishing license certification series and ELS series are nearly identical from 2001 to 2011, because ELS was used to derive the certification numbers. In 2000, however, license certifications were done using traditional statistical techniques. Had ELS been used, it appears that the number of resident license holders would have been lower by some 3.5 percent. In addition, it appears that the steepness in the drop between the late 1990s and 2001 may have been more gradual than the abrupt decline displayed on the graph from 2000 to 2001.

Hunting participation, variable from 1969 to the mid 1980s, became relatively stable near 16 percent from the mid 1980s to mid 1990s, after which it fell to around 12 percent by 2013 (Figure 2). The long-term trend, based on license certifications, contains licensed hunters under age 16. Prior to ELS, the number of





licensed hunters under 16 was not known, and the usual practice was to normalize the entire hunter population by the 16 and over age cohort, which is known to have the large majority of the hunters (contains 95% of all hunters at present). This practice is continued up to the present for consistency. If those under 16 are removed, the lower graphed line is produced, which is the accurate measure of participation rates for hunters 16 and over. In 2013 the accurate measure has a participation rate of 12.3 percent, while the usual-practice method (includes hunters under 16) has a rate of 13.1 percent for the most recent year available (2011).

The participation declines for hunting and fishing since the 1990s are part of a general pattern of participation declines for nature-based recreation activities that are national in scope and extend to wildlife watching, park visitation, recreational boating, and non-motorized trail use (Reference 4). For much of nature-based recreation, the 1990s were a turning point from board-based stable-to-increasing participation-rate trends—extending back to at least World War II—to broad-based decreasing trends.

b. Compared with the nation, 1991 to 2011

Minnesota can be compared to the nation from 1991 to 2011 using Minnesota license records and participation information from the National Survey of Fishing, Hunting and Wildlife-Associated Recreation (Reference 2). The National

Survey—conducted every five years—has had a consistent methodology since 1991.

The overall decline from 1991 in Minnesota fishing participation is close to that of the nation as a whole (both around 25% to 30%—Table 1). For hunting, the national decline is steeper than the Minnesota decline.

The national declines from 1991 to 2011 are similar for

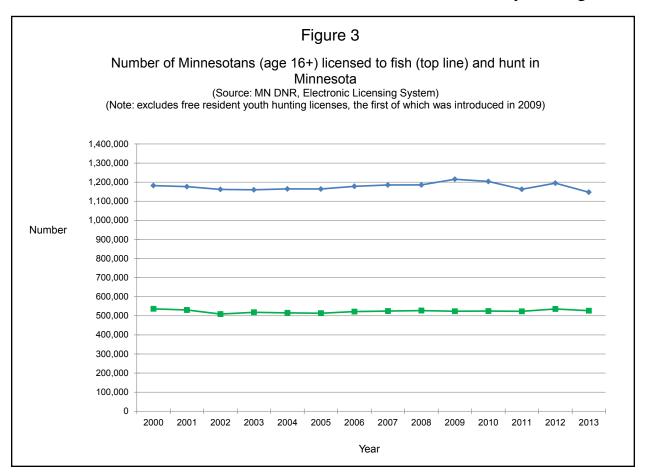
Table 1				
1991 to	2011 trends	in MN and Uparticipation	S. fishing and l	hunting
		puriorpution	•	
	Fishing part	icipation-rate	Hunting parti	cipation-rate
	index (1991=100)		index (19	<u>91=100)</u>
Year	MN U.S.		MN	<u>U.S.</u>
1991	100	100	100	100
1996	87	93	95	94
2001	77	86	93	83
2006	74	70	87	74
2011	70	74	84	77
			•	

hunting and fishing. Over this same period, the Minnesota fishing decline is larger than the hunting decline.

RECENT PARTICIPATION TRENDS FOR MINNESOTA RESIDENT ANGLERS AND HUNTERS, 2000 TO 2013

a. Trends in number licensed

Since 2000 resident hunter and angler numbers have been largely stable (Figure 3). The first few years following 2000 experienced small drops in the numbers licensed, which were followed by small increases. Angler numbers have fluctuated more in recent years. Year 2011—which had a wet and cold spring followed by a three-week state shutdown in July, during which license sales were suspended—experienced a decline in angler numbers. Numbers rebounded in 2012, and declined again in 2013. The spring weather of 2013 was abnormal, and many lakes in the northern half of the state were still ice covered when the state walleye fishing sea-



son opened in May. This significantly depressed spring license sales, which never fully recovered during the remainder of the year. In addition, fishing (and hunting) license prices were raised in 2013, and it is uncertain the extent to which prices were a significant factor in licensing decisions, because the abnormal spring weather in diminishes the ability to discern any effects of the price increases. Tracking angler numbers in 2014 and subsequent years will indicate a lot about the relative effects of prices and weather.

When these relatively stable trends in license holders are combined with a Minnesota population increase of 13 percent from 2000 to 2013 (Table 3—age 16+), the trends in participation rates are downward. More is said about participation trends below.

The trend since 2000 in total Minnesota license holders (including non-residents) is as stable as the trend for residents alone. In 2013, non-residents comprise 21 percent of Minnesota fishing license holders and 4 percent of hunting license holders.

b. Age class trends

The overall declines in fishing and hunting participation from 2000 to 2013 are mostly due to the decline among young adults (under 45), while older adults exhibit smaller declines and more stable participation rates (Table 2). This same general age-based pattern extends to the two types of hunting license holders (deer firearms and small game) selected for tracking (bottom of Table 2).

For fishing, the age cohort from 25 to 44 has the steepest decline, while the youngest age class (16 to 24) and older age classes (45 to 64) have smaller declines. For hunting, the rapid-decline age cohort extends from 16 to 44.

Those aged 65+ have rising fishing and hunting participation over the period 2000 to 2013. This rise in participation is believed to be a reflection of the upward trend in the health and vigor of adults who are currently entering their senior years.

The relative age-class shifts in participation rates between 2000 and 2013 have aged the hunting and fishing populations more rapidly than the general Minnesota population. Whereas the median age of the Minnesota population increased 2.3 years from 2000 to 2013, the median age of the fishing and hunting populations rose 3.9 and 4.6 years, respectively.

Table 2

Participation rates by age class for Minnesotans licensed to fish and hunt in Minnesota

All licensed anglers (a	age 16+)		
Age grouping	Percent of population <u>2000</u>	ion licensed in year 2013	Percent Change 2000 to 2013
Overall (ages 16+)	31.2%	26.8%	-14.3%
Ages 16 to 44 Ages 45 +	33.3% 28.6%	27.6% 26.0%	-17.2% -9.0%
Age 16 to 24 Age 25 to 34 Age 35 to 44 Age 45 to 54 Age 55 to 64 Age 65+	25.7% 34.2% 38.4% 34.6% 32.5% 19.2%	23.1% 29.0% 30.4% 30.2% 28.4% 19.5%	-9.9% -15.1% -20.8% -12.5% -12.5% 1.4%

(participation rate = licensed anglers / population)

	Dougout of manual	ion licongod in worn	Daraant Charaa
A go grouping	Percent of populat 2000	ion licensed in year 2013	Percent Change 2000 to 2013
Age grouping	2000	2013	2000 10 2013
Overall (ages 16+)	14.2%	12.3%	-13.3%
Ages 16 to 44	16.2%	13.1%	-19.1%
Ages 45 +	11.7%	11.6%	-0.8%
Age 16 to 24	15.5%	12.8%	-17.2%
Age 25 to 34	15.7%	13.0%	-17.2%
Age 35 to 44	17.0%	13.4%	-21.5%
Age 45 to 54	15.5%	14.2%	-8.4%
Age 55 to 64	13.6%	12.9%	-5.0%
Age 65+	6.1%	7 70/	
		7.7%	26.5%
Deer-firearm licensee Overall (ages 16+) Ages 16 to 44 Ages 45 +		9.7% 10.3% 9.2%	-10.8% -15.3% -1.1%
Deer-firearm licensee Overall (ages 16+) Ages 16 to 44	d hunters (age 16+) 10.9% 12.1% 9.3%	9.7% 10.3%	-10.8%
Deer-firearm licensee Overall (ages 16+) Ages 16 to 44 Ages 45 + Small-game licensed	d hunters (age 16+) 10.9% 12.1% 9.3%	9.7% 10.3%	-10.8%
Deer-firearm licensee Overall (ages 16+) Ages 16 to 44 Ages 45 +	d hunters (age 16+) 10.9% 12.1% 9.3% hunters (age 16+)	9.7% 10.3% 9.2%	-10.8% -15.3% -1.1%

The younger age classes (16 to 44)—which have the largest decreasing participation rates—have experience little overall population change, while the older age classes (45+)—which have more stable participation rates—have grown rapidly overall (Table 3). This covariance of population change and participation-rate change has kept license numbers up.

	on 0.5. Census	s counts and esti	mates)	
	Year Change 2000 to 20		to 2013	
	<u>2000</u>	<u>2013</u>	Number	Percent
Age class				
0 to 11	835,643	852,277	16,634	2%
12 to 15	301,019	284,498	-16,521	-5%
16 to 24	620,666	649,420	28,754	5%
25 to 34	673,138	742,560	69,422	10%
35 to 44	824,182	668,291	-155,891	-19%
45 to 54	665,696	771,891	106,195	16%
55 to 64	404,869	695,366	290,497	72%
65+	<u>594,266</u>	756,077	<u>161,811</u>	27%
Total	4,919,479	5,420,380	500,901	10%
Subtotal, age 16+	3,782,817	4,283,605	500,788	13%
Subtotal, age 16 to 44	2,117,986	2,060,271	-57,715	-3%
Subtotal, age 45+	1,664,831	2,223,334	558,503	34%
<u>Gender (age 16+)</u>				
Male	1,852,801	2,112,284	259,483	14%
Female	1,930,016	2,171,321	241,305	13%
Total, age 16+	3,782,817	4,283,605	500,788	13%
Region (age 16+)				
Northwest	341,582	367,820	26,238	8%
Northeast	322,043	343,592	21,549	7%
South	752,803	802,125	49,322	7%
Central	347,192	446,545	99,353	29%
Metro (7 county)	<u>2,019,197</u>	<u>2,323,523</u>	<u>304,326</u>	15%
Total, age 16+	3,782,817	4,283,605	500,788	13%

c. Gender trends

Men have higher hunting and fishing participation rates than women in Minnesota. The gender gap changed little for fishing between 2000 and 2013, but closed for hunting (Table 4). The participation rate for female hunters went up during the last 12 years. Most of the female increase is concentrated in deer firearm hunting over the last couple of years.

Participation rate	s by gender for Minnes	able 4 sotans licensed to fish a censed anglers / population	
All licensed angler	s (age 16+)		
	Percent of populat	tion licensed in year	Percent Change
Gender	2000	2013	2000 to 2013
Male	40.6%	35.1%	-13.5%
Female	22.2%	18.7%	-16.0%
Both genders	31.2%	26.8%	-14.3%
All licensed hunter	rs (age 16+)		
	Percent of populat	tion licensed in year	Percent Change
Gender	2000	2013	2000 to 2013
Male	26.2%	21.8%	-16.6%
Female	2.6%	3.0%	13.5%

d. Regional trends

The pattern of regional change has similarities for hunters and anglers between 2000 and 2013. The largest decline is in the Central Region, and the next largest—although just barely for fishing—is the Metro Region (Table 5). Smaller declines are found in the Northeast, Northwest, and South. The Central and Metro Region experienced the most rapid population growth over this period (Table 3), and the new residents may not be as involved in hunting and fishing as the longer-term residents.

The highest participation rates for hunting and fishing are located in the regions covering the northern two-thirds of the state (Northeast, Northwest and Central regions). In contrast, the Metro (especially) and South regions have relatively low participation rates for both hunting and fishing.

Table 5

Participation rates by region for Minnesotans licensed to fish and hunt in Minnesota (participation rate = licensed anglers / population)

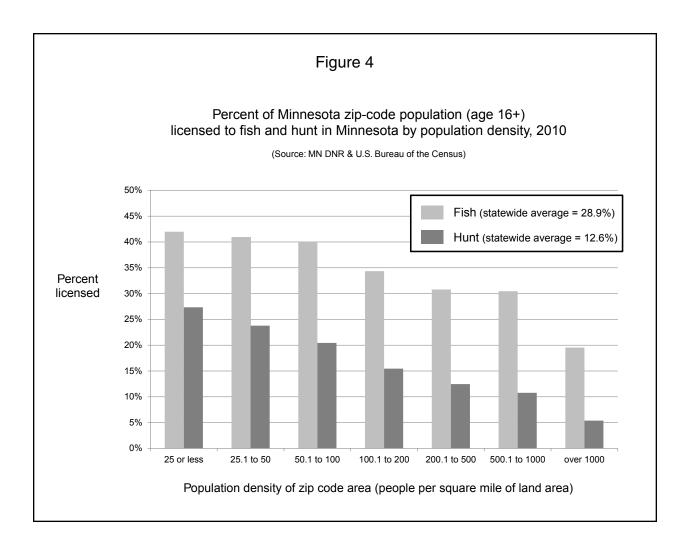
	Percent of populat	ion licensed in year	Percent Change
Region	2000	2013	2000 to 2013
Northwest	45.1%	38.7%	-14.2%
Northeast	43.7%	37.1%	-15.2%
South	30.1%	28.3%	-6.0%
Central	50.1%	41.0%	-18.1%
Metro (7 county)	24.1%	20.1%	-16.5%
Statewide	31.2%	26.8%	-14.3%

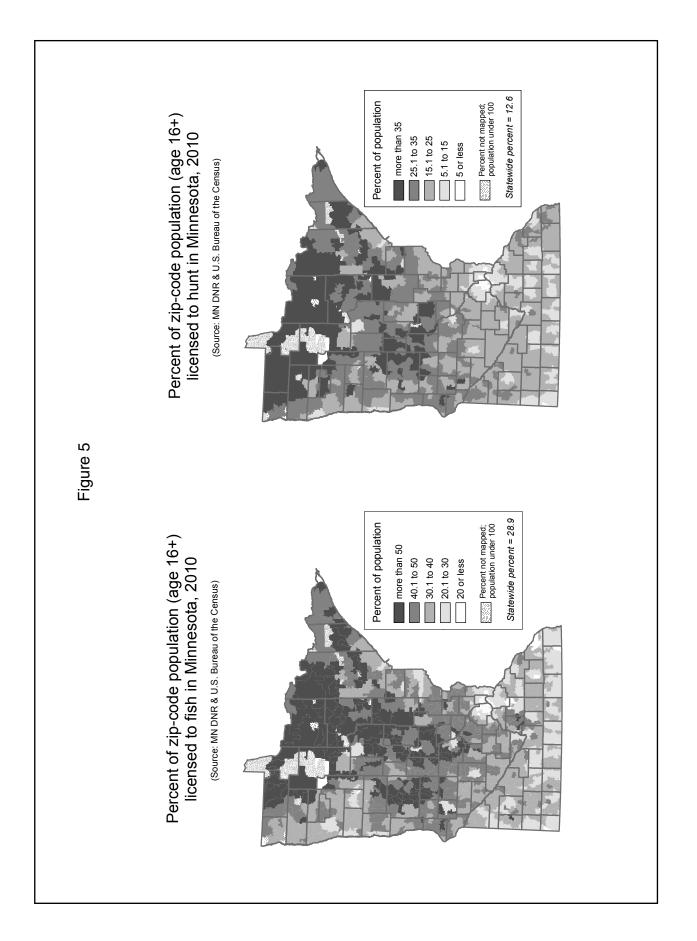
	Percent of populat	ion licensed in year	Percent Change
Region	2000	<u>2013</u>	2000 to 2013
Northwest	27.7%	25.5%	-8.0%
Northeast	25.8%	22.7%	-12.0%
South	15.6%	14.0%	-10.1%
Central	25.0%	21.0%	-15.9%
Metro (7 county)	7.7%	6.4%	-16.5%
Statewide	14.2%	12.3%	-13.3%



This north-south difference in participation rates is one of the two major patterns evident in a more detailed look at the geographic distribution of the fishing and hunting participation rates (Figure 5). The other major pattern is urban-rural, with the more urban and densely settled parts of the states having the lowest rates. Both hunting and fishing participation decrease with increasing population density; the *relative* decrease of hunting is greater than fishing (Figure 4).

The geographic distributions of hunting and fishing participation have a lot in common. The correlation coefficient between the hunting and fishing participation-rate maps on Figure 4 is 0.86.





TRENDS IN RELICENSING RATES FOR MINNESOTA RESIDENT ANGLERS AND HUNTERS, 2000 TO 2013

In ELS, license holders are assigned a unique customer identification number that permits tracking a individual from year to year. Every hunter is licensed as an individual and, thus, can be tracked over time. Some anglers, however, are licensed in combination licenses. For a combination license, the primary license holder is given a unique customer number—and, thus, can be tracked over time—but the other license holder (spouse) is not given a unique customer number and cannot be tracked over time. About one-fourth of resident licensed anglers cannot be tracked from year to year.

a. Year to year retention rates

Retention rates are higher for hunters than anglers. On average, 84 percent of

resident hunters relicense from year to year, compared with 72 percent of resident anglers (Table 6). Hunter retention rates have been stable from 2002 through 2013, and are currently above those in the earliest years (2001 to 2002). Fishing retention rates are stable from 2000 to 2006, appear to have increased from 2006 to 2012, and have dropped back to the earlier rates in the most recent year. For the most recent year, both fishing and hunting retention rates are equal to their longer-term averages.

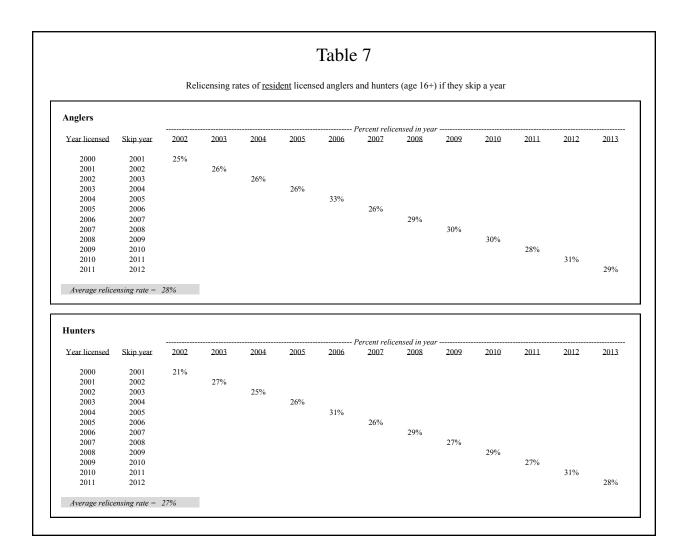
	Tabl	le 6	
•	Year-to-year retention of resident licensed anglers and hunters, who are 16 years of age or older		
nunte		cuis of uge of v	
		Percent r	elicensed
From year	To year	<u>Anglers</u>	Hunters
••••	••••	2 00 (0 00 /
2000	2001	70%	82%
2001	2002	72%	81%
2002	2003	70%	85%
2003	2004	72%	84%
2004	2005	70%	84%
2005	2006	71%	85%
2006	2007	74%	85%
2007	2008	73%	85%
2008	2009	74%	85%
2009	2010	73%	85%
2010	2011	72%	85%
2011	2012	74%	86%
2012	2013	72%	84%
	Average =	72%	84%

b. Relicensing rates of lapsed participants

If an angler or hunter skips a year, the likelihood they relicense the following year is relatively consistent across activities and years. It averages 27 to 28 percent (Table 7). The most recent year (2013) is near the longer-term average for both fishing and hunting.

A few outliers are evident in the table. Year 2006 relicensing rate is high for fishing, for whatever reason, and year 2002 is low for hunting, for whatever reason.

When the lapsed relicensing rates are compared with the retention rates, the significance of retaining participants from year to year is evident. If a participant lapses, the likelihood they will relicense is small (27% to 28%) compared with yearly retention rates of 72 to 84 percent.



c. Year most recently participated for 2013 participants, and age distribution of "new" 2013 participants

A direct result of the high retention rates, and relatively low relicensing rates for

lapsed participants, is that the large majority of a given year's participants have participated in a recent year. For 2013 resident anglers, 74 percent participated in 2012, and another 7 percent in 2011 (Table 8). For 2013 resident hunters, 85 percent participated in 2012, with another 4 percent in 2011. Few 2013 hunters and anglers last participated four or more years ago.

"New" anglers and hunters account for 9 percent of 2013 resident anglers and 6 percent of hunters (Table 8). The "new" participants are new to ELS (for hunters, "new to ELS" means new at an age of 16 or older; some hunters are in ELS at ages below 16).

The "new" participants are definitely younger than the existing participant populations (Table 9). Just over half (52% to 55%) of new participants are in the youngest age class (16 to 24), with another 17 percent in the next youngest age class (25 to 34).

Table 8 Year last fished and hunted for Minnesotans licensed in 2013 to fish and hunt in Minnesota		
2013 All licensed resident	anglers (age 16+)	
Year last fished	Percent of 2013 anglers	
2012	74%	
2011	7%	
2010	3%	
2009	2%	
2008	1%	
2000	1%	
2007	1%	
2000	0%	
2003	0%	
2004 2003	0%	
2002	0%	
2001	0%	
2000	0%	
New to ELS	<u>9%</u>	
Total	100%	
2013 All licensed resident Year last hunted	hunters (age 16+) Percent of 2013 hunters	
2012	85%	
2011	4%	
2010	1%	
2009	1%	
2008	1%	
2007	0%	
2006	0%	
2005	0%	
2004	0%	
2003	0%	
2002	0%	
2001	0%	
2000	0%	
New to ELS	<u>6%</u>	
Total	100%	

Table 9

Ages of 2013 resident anglers who are new to Electronic Licensing System (not in system from 2000 to 2012)

2013 All licensed resident anglers (age 16+)

(Note: The "New to ELS" column only includes primary license holders, and it excludes spouses in combination licenses; the "All anglers" column includes both primary and spouse license holders)

Age class	New to ELS (percent)	All anglers (percent)
Age 16 to 24	52%	13%
Age 25 to 34	17%	19%
Age 35 to 44	11%	18%
Age 45 to 54	9%	20%
Age 55 to 64	7%	17%
Age 65+	4%	<u>13%</u>
Total	100%	100%

	New to ELS	All hunters
Age class	(percent)	(percent)
Age 16 to 24	55%	16%
Age 25 to 34	17%	18%
Age 35 to 44	11%	17%
Age 45 to 54	9%	21%
Age 55 to 64	6%	17%
Age 65+	<u>3%</u>	<u>11%</u>
Total	100%	100%

REFERENCES

- 1. All Minnesota fishing and hunting license information comes from: Minnesota Department of Natural Resource, Division of Fish and Wildlife, License Bureau.
- National fishing and hunting participation information comes from: U. S. Department of the Interior, Fish and Wildlife Service and U. S. Department of Commerce, U. S. Census Bureau. National Survey of Fishing, Hunting, and Wildlife-Associated Recreation. Survey years 1991, 1996, 2001, 2006, and 2011.
- 3. All population information comes from: U. S. Department of Commerce, U. S. Census Bureau.
- 4. Information on nature-based recreation trends comes from:
 - U.S. fishing, hunting and wildlife watching: USFWS and U.S. Census Bureau. National Survey of Fishing, Hunting and Wildlife-Associated Recreation. Survey years 1991, 1996, 2001, 2006, and 2011.
 - National park visitation: National Park Service visitation records (www2.nature. nps.gov/stats/)
 - Minnesota fishing, hunting, park visitation, non-motorized trail, and boating trend studies: Minnesota DNR.

APPENDIX A: Number of Minnesotans licensed to fish and hunt in Minnesota by age, gender, and region, 2000 to 2013

				Number o (Sou	of Minneso rce: MN DN	tans licens R, Electroni	Number of Minnesotans licensed to fish in Minnesota (Source: MN DNR, Electronic Licensing System)	n Minneso System)	ıta					
AGE CLASS	2000	2001	2002	2003	2004	<u>2005</u>	License year 2006	vear	2008	2009	2010	2011	2012	2013
15 and under 16 to 24 25 to 34 35 to 44 55 to 64 65+ Total Subtotal, age 16+	211 159,418 159,418 229,880 316,653 316,653 230,173 131,497 11,4327 1,182,159 1,181,948	305 160,524 223,278 308,529 236,314 134,929 11,176,777 1,176,472		213 162,074 210,235 284,603 244,478 146,689 111,833 1,160,125 1,159,912	257 165,284 207,264 275,631 249,603 152,854 114,090 1,164,983 1,164,726	190 163,392 205,000 265,285 254,828 158,268 117,386 1,164,159		209 166,006 213,137 247,262 262,720 170,859 1,185,301 1,185,092	205 165,227 218,453 235,403 263,368 174,664 1,185,682 1,185,682 1,185,477	184 164,436 226,315 232,023 269,301 186,723 136,723 1,215,356 1,215,356	276 157,947 225,813 225,813 223,243 11 193,374 1,203,803 1,203,527	357 147,036 216,066 210,208 251,756 195,913 141,845 1,163,182 1,163,182	465 154,513 224,913 214,354 250,183 201,907 149,034 1,195,368 1,194,903	492 150,283 215,273 203,287 203,287 233,438 197,539 1,147,862 1,147,862 1,147,370
GENDER (age 16+)	2000	2001	2002	2003	2004	2005	License year 2006	vear	2008	2009	2010	2011	2012	2013
Male Female Total (age 16+)	752,754 <u>429,194</u> 1,181,948	755,704 <u>420,768</u> 1,176,472	$\frac{753,551}{408,569}$ 1,162,120	$\frac{751,912}{408,000}$ 1,159,912	755,942 <u>408,784</u> 1,164,726	750,198 <u>413,961</u> 1,164,159	762,507 <u>415,794</u> 1,178,301	$\frac{768,079}{417,013}$ 1,185,092	768,734 <u>416,743</u> 1,185,477	784,534 <u>430,638</u> 1,215,172	775,799 <u>427,728</u> 1,203,527	$\frac{749,902}{412,923}$ 1,162,825	769,107 <u>425,796</u> 1,194,903	$\begin{array}{c} 742,011\\ \underline{405,359}\\ 1,147,370\end{array}$
REGION (age 16+)	2000	2001	2002	<u>2003</u>	2004	<u>2005</u>	License year 2006	vear	2008	2009	2010	2011	2012	2013
Northwest Northeast South Central Metro (7 county) Total (age 16+)	$\begin{array}{c} 154,076\\ 140,858\\ 226,620\\ 173,957\\ \underline{486,438}\\ 1,181,948\end{array}$	$\begin{array}{c} 155,702\\ 139,745\\ 221,957\\ 174,983\\ \underline{484,086}\\ 1,176,472\\ \end{array}$	$\begin{array}{c} 154,006\\ 138,700\\ 220,401\\ 173,855\\ \underline{475,158}\\ 1,162,120\\ \end{array}$	$\begin{array}{c} 154,321\\ 136,899\\ 222,411\\ 175,581\\ \underline{470,700}\\ 1,159,912\end{array}$	$\begin{array}{c} 152,909\\ 136,636\\ 224,182\\ 178,330\\ \underline{472,669}\\ 1,164,726\end{array}$	151,432 $136,290$ $223,498$ $179,759$ $473,179$ $1,164,159$	$\begin{array}{c} 156,492\\ 138,935\\ 223,958\\ 185,112\\ \underline{473,803}\\ 1,178,301\\ \end{array}$	154,973 136,942 229,040 186,468 477,669 1,185,092	$\begin{array}{c} 155,480\\ 137,177\\ 229,356\\ 186,765\\ \underline{476,698}\\ 1,185,477\end{array}$	$\begin{array}{c} 158,200\\ 140,756\\ 234,700\\ 190,517\\ \underline{490,998}\\ 1,215,172\end{array}$	$\begin{array}{c} 156,652\\ 140,305\\ 229,279\\ 189,278\\ \underline{488,013}\\ 1,203,527\end{array}$	$\begin{array}{c} 153,877\\ 137,093\\ 220,553\\ 183,176\\ \underline{468,126}\\ 1,162,825\end{array}$	$\begin{array}{c} 149,372\\ 136,568\\ 237,118\\ 188,195\\ \underline{483,650}\\ 1,194,903\end{array}$	142,279 127,392 226,864 183,281 <u>467,555</u> 1,147,370

Number of Minnesotans licensed to fish in Minnesota

(None: evolutes free resident) youth hunting licenses, the first of "which was introduced in 2009) AGE CLASS AGE CLASS 2000 2001 2002 2003 2002 2010 2011 2012 2013 35/34 35/44 35/34 36/41 56/25 36/34 36/23 36/34					Number oi (Sour	f Minnesot :ce: MN DN	ans license R, Electronie	Number of Minnesotans licensed to hunt in Minnesota (Source: MN DNR, Electronic Licensing System)	n Minneso System)	ota					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			Z	ote: exclude:	s free residen	t youth hunt	ing licenses,	the first of v	which was ii	ntroduced in	2009)				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AGE CLASS	2000	2001	2002	2003	2004	2005	License	year 2007	2008	2009	2010	2011	2012	2013
	5 and under 6 thru 24 5 thru 34 5 thru 34 5 thru 44	37,324 95,917 106,002 140,375 103,230	37,114 94,502 101,737 135,902 105 831	35,884 91,468 95,741 127,081 104 327	36,411 92,141 95,592 125,129 109,159	36,724 90,825 93,999 119,820	36,612 88,843 91,673 115,118 114,140	36,364 89,119 92,520 112,013	36,342 89,105 93,619 106,581	36,237 87,927 95,246 102,337 120,860	35,132 85,028 95,274 97,523 119,967	36,562 84,201 95,484 94,061	36,884 82,873 95,609 91,257	38,043 83,928 97,768 92,245	29,339 83,131 96,765 89,408 109,679
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		54,952 54,952 573,794 536,470	56,361 56,361 567,669 530,555	56,070 56,070 34,378 544,949 509,065	59,742 59,742 554,867 518,456	61,789 61,789 <u>37,874</u> 552,236 515,512	64,468 <u>39,369</u> 550,223 513,611	68,524 68,524 41, <u>953</u> 558,388 522,024	71,777 71,777 44,272 561,058 524,716	74,728 <u>46,378</u> 563,713 527,476	78,059 48,029 559,012 523,880	82,110 82,110 50,161 561,420 524,858	85,051 85,051 560,269 523,385	89,438 89,438 573,632 535,589	89,667 89,667 57,915 555,904 526,565
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	GENDER (age 16+)	2000	2001	2002	2003	2004	2005	License	year	2008	2009	2010	2011	2012	2013
ON (age 16+)	-	485,501 <u>50,969</u> 536,470	479,362 <u>51,193</u> 530,555	463,859 <u>45,206</u> 509,065	474,743 <u>43,713</u> 518,456	472,177 <u>43,335</u> 515,512	470,141 <u>43,470</u> 513,611	477,083 <u>44,941</u> 522,024	476,981 <u>47,735</u> 524,716	477,065 <u>50,411</u> 527,476	471,116 <u>52,764</u> 523,880	469,847 <u>55,011</u> 524,858	465,708 <u>57,677</u> 523,385	469,533 <u>66,056</u> 535,589	461,470 <u>65,095</u> 526,565
vest 94,752 94,485 91,114 91,478 91,577 92,323 93,476 93,676 93,917 93,924 94,824 95,390 96,514 ast 83,034 82,101 77,026 77,716 76,918 76,276 78,739 79,019 79,156 79,052 80,105 80,098 81,324 117,189 114,817 109,981 114,105 113,662 113,357 114,584 115,458 116,318 112,326 111,977 110,821 114,797 1 86,816 86,923 84,089 85,188 85,309 85,860 88,390 88,840 90,090 90,600 90,818 90,673 93,382 (7 county) 154,679 152,228 146,885 149,969 148,76 145,712 147,722 147,2994 147,409 147,133 146,403 149,572 Total (age 16+) 536,470 530,555 509,065 518,456 515,512 513,611 522,024 524,716 527,476 523,880 524,858 523,385 535,589	tEGION (age 16+)	2000	2001	2002	2003	2004	2005	License	year 2007	2008	<u>2009</u>	<u>2010</u>	2011	2012	2013
	lorthwest lortheast south central detro (7 county) Total (age 16+)	94,752 83,034 117,189 86,816 <u>154,679</u> 536,470	94,485 82,101 114,817 86,923 86,923 <u>152,228</u> 530,555	91,114 77,026 109,981 84,089 <u>146,855</u> 509,065	91,478 77,716 114,105 85,188 <u>149,969</u> 518,456	91,577 76,918 113,662 85,309 <u>148,046</u> 515,512	92,323 76,276 113,357 85,860 <u>145,794</u> 513,611	93,476 78,739 114,584 88,390 <u>146,834</u> 522,024	93,676 79,019 115,458 88,840 <u>147,723</u> 524,716	93,917 79,156 116,318 90,090 <u>147,994</u> 527,476	93,924 79,622 112,326 90,600 147,409 523,880	94,824 80,105 111,977 90,818 147,133 524,858	95,390 80,098 110,821 90,673 523,385	96,514 81,324 114,797 93,382 149,572 535,589	93,918 77,982 112,249 93,860 <u>148,556</u> 526,565

Number of Minnesotans licensed to hunt in Minnesota