

North Central Plains Moraines Deer Goal Setting – Block G2 Landowner and Hunter Survey Results



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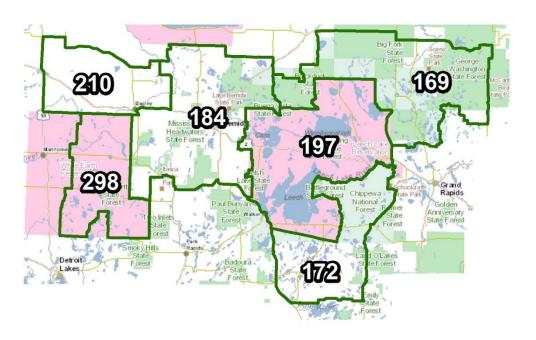
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Public Surveys for Deer Goal Setting

MN DNR periodically conducts stakeholder surveys to collect information about public desires and opinions regarding specific natural resource management issues. Survey recipients are selected randomly and provide a statistically representative sample of stakeholder opinions. Thus, these surveys differ from annual public input opportunities which may include some bias according to self-selection of interested parties. In 2014, both hunters (Appendix A) and landowners (Appendix B) in this goal setting block were surveyed; the resulting information provides a basis for the 2015 deer population goal setting process. This report covers goal block G2, North Central Plains Moraines.



Methods

Hunters and private landowners were surveyed using a mixed mode design that included two waves of letters requesting survey completion online; the third wave was mailed using a self-administered mail back questionnaire (Appendices A and B).

For the hunter survey, we randomly selected 2,600 adult 2013 deer license holders who indicated they intended to hunt in deer areas 169, 172, 184, 197, 210, or 298. A total of 172 were undeliverable and we received 939 completed responses, which yielded an adjusted response rate of 39%. Landowner parcels were stratified into 4 acreages, 1) 2 - 19.9, 2) 20 - 79.9, 3) 80 - 319.9, and 4) 320+. We selected a simple random sample from strata 1 - 3 (n = 635) and surveyed all landowners in strata 4 (N = 696). Overall, there were 162 undeliverable surveys; 952 completed landowner surveys were returned, yielding a 43% adjusted response rate. For both surveys, our error rate at the goal block level was approximately 3%.

Hunter Survey

Demographics

Nearly all respondents (96%) indicated they hunted during the 2013 firearm deer season. Overall 16% indicated they hunted deer during the archery season and 11% hunted muzzleloader. Firearm hunters spent an average of 6.3 days afield, compared to 5.2 for muzzleloader and 11.5 for archery hunters. Overall, individuals had hunted an average of 32 years in Minnesota and 21 years in the deer area they indicated they hunted most often. Overall, 90% of respondents were male and the average age was 51.1 (range = 19 - 88).

A slight majority of hunters did at least some of their hunting on their own private land (56%) or other private land (56%). A majority also did at least some of their hunting on public land (87%). Another 6.1% indicated they did at least some hunting on lands that they leased for deer hunting. Only 1.4% of respondents hunted exclusively on land they leased. With respect to future populations; a majority expressed a desire for an increase in deer numbers, regardless of where they hunted (Table 1).

Population trends and perceptions about deer populations

Respondents were asked to indicate their perceptions of deer population trends over the last 5 years. Overall, 84% of respondents indicated there were fewer deer than 5 years ago, 4% indicated more, and 11% believed populations were the same. We noted no statistical differences in responses for any of the deer permit areas (Table 2). Respondents were also asked for their perceptions of total deer population size as rated by 'too low', 'about right', or 'too high'. Over three-quarters (79%) believed the population was 'too low', 19% thought it was 'about right', and 2% indicated the population was 'too high'. We again observed no statistical differences among deer permit areas (Table 3). Respondents were also asked to indicate their desires for future deer population densities and most (85%) wanted to see an increase in deer densities at some level (Table 4, Figure 1). Interestingly, a majority of respondents (82%) would shoot an antlerless deer if given the opportunity.

Table 1. Condensed table of desired deer population trends of hunters, by land type hunted.

		Desired Population Trend				
		No				
Type of land hunted		Decrease	Change	Increase		
	None	5%	9%	86%		
Duivoto lond that Lavon	Some	3%	10%	87%		
Private land that I own	Most	5%	11%	84%		
	All	5%	18%	77%		
	None	5%	12%	83%		
Private land that I lease	Some	0%	0%	100%		
for hunting	Most	0%	0%	100%		
	All	0%	0%	100%		
	None	5%	11%	84%		
Private land that I do	Some	5%	10%	85%		
not own or lease	Most	1%	8%	91%		
	All	9%	13%	79%		
	None	9%	19%	72%		
D 11' 1 1	Some	2%	10%	88%		
Public land	Most	7%	7%	87%		
	All	5%	9%	86%		

Table 2. Hunter perceptions of deer population trends over the last 5 years, by deer permit area.

	Lower		T	The Same		Higher	
Deer Area	N	Percent	N	Percent	N	Percent	
169	158	87%	16	9%	7	4%	
172	174	81%	26	12%	14	7%	
184	192	81%	33	14%	12	5%	
197	71	88%	10	12%	0	0%	
210	55	92%	4	7%	1	2%	
298	65	88%	8	11%	1	1%	
Total	715	84%	97	11%	35	4%	

Table 3. Hunter beliefs about current deer population densities, by deer area.

	Too	Too Low About Right Too		About Right		High
Deer Area	N	Percent	N	Percent	N	Percent
169	159	88%	19	11%	3	2%
172	164	77%	47	22%	3	1%
184	171	73%	59	25%	6	3%
197	68	83%	13	16%	1	1%
210	46	77%	13	22%	1	2%
298	61	82%	12	16%	1	1%
Total	669	79%	163	19%	15	2%

Table 4. Deer population trend preferences for hunters, by deer permit area.

(a) By individual response

Deer Area	Dec 50%	Dec 25%	Dec 10%	No Change	Inc 10%	Inc 25%	Inc 50%
169	0%	1%	1%	7%	13%	38%	40%
172	0%	4%	1%	9%	23%	32%	29%
184	1%	2%	3%	13%	23%	35%	22%
197	1%	2%	2%	11%	22%	33%	28%
210	0%	0%	2%	18%	18%	42%	20%
298	1%	3%	3%	7%	14%	35%	38%
Total	1%	2%	2%	11%	20%	35%	30%

(b) Summarized by decrease, same, increase

Deer Area	Decrease	Same	Increase
169	2%	7%	91%
172	5%	9%	84%
184	6%	13%	80%
197	5%	11%	83%
210	2%	18%	80%
298	7%	7%	87%
Total	5%	11%	85%

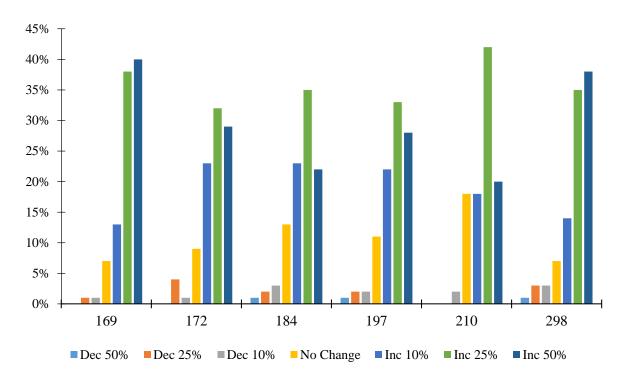


Figure 1. Graphical representation of hunters' desired deer population trends.

Satisfaction

Hunters were asked to indicate their overall satisfaction with deer numbers, whether they heard about or saw legal bucks, their satisfaction with the number of legal bucks, quality of bucks, total number of deer and total number of antlerless deer. A low percentage (14%) were satisfied with current deer numbers; a majority (75%) indicated dissatisfaction (Table 5). Similarly, 22% of respondents indicated they were satisfied with the total number of deer they saw while hunting (67% were not satisfied and 11% were neutral). Almost one-third (32%) were satisfied with the total number of antlerless deer they observed. A low percentage (20%) were satisfied with the number of legal bucks observed; most were dissatisfied (66%). Slightly less than half (46%) indicated they saw heard about or saw legal bucks while hunting. More hunters (61%) were dissatisfied than satisfied (21%) with the quality of bucks observed (Table 6). Finally, we observed no real differences among land type hunted and satisfaction with total deer numbers; most expressed low levels of overall satisfaction with deer numbers (Figure 2).

Table 5. Overall hunter satisfaction with total deer numbers, by deer area.

<u>-</u>	Dissa	atisfied	Ne	either	Sat	atisfied	
DPA	N	Percent	N	Percent	N	Percent	
169	155	86%	13	7%	13	7%	
172	159	74%	23	11%	32	15%	
184	160	67%	27	11%	52	22%	
197	63	77%	12	15%	7	9%	
210	44	73%	8	13%	8	13%	
298	56	76%	15	20%	3	4%	
Total	637	75%	98	12%	115	14%	

Table 6. Hunter satisfaction with number and quality of bucks, antlerless deer, and total deer numbers, by area.

				Deer	Area			
		169	172	184	197	210	298	Total
T (' C' 1 '/1 /1	Disagree	73%	70%	62%	70%	48%	66%	66%
I was satisfied with the number of legal bucks	Neither	12%	11%	15%	17%	15%	11%	13%
number of legal bucks	Agree	15%	19%	23%	13%	37%	23%	20%
I was satisfied with the quality of bucks	Disagree Neither Agree	60% 24% 15%	65% 16% 19%	55% 17% 28%	62% 18% 20%	58% 15% 27%	68% 15% 18%	61% 18% 21%
I heard about or saw legal bucks while hunting	Disagree Neither Agree	48% 12% 40%	50% 6% 44%	33% 13% 53%	48% 13% 39%	32% 10% 58%	42% 18% 41%	43% 11% 46%
I was satisfied with the total number of antlerless deer	Disagree Neither Agree	63% 12% 25%	53% 10% 36%	46% 16% 39%	60% 17% 23%	43% 20% 37%	60% 18% 22%	54% 14% 32%
I was satisfied with the total number of deer I saw while hunting	Disagree Neither Agree	74% 10% 16%	66% 9% 26%	62% 12% 27%	76% 12% 12%	55% 15% 30%	72% 11% 18%	67% 11% 22%

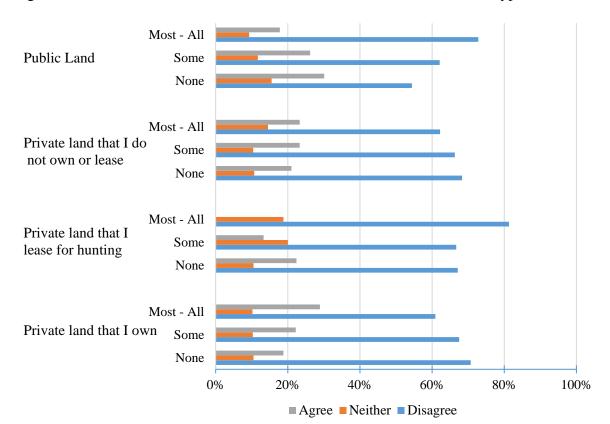


Figure 2. Hunter satisfaction with total number of deer seen, based on land type hunted.

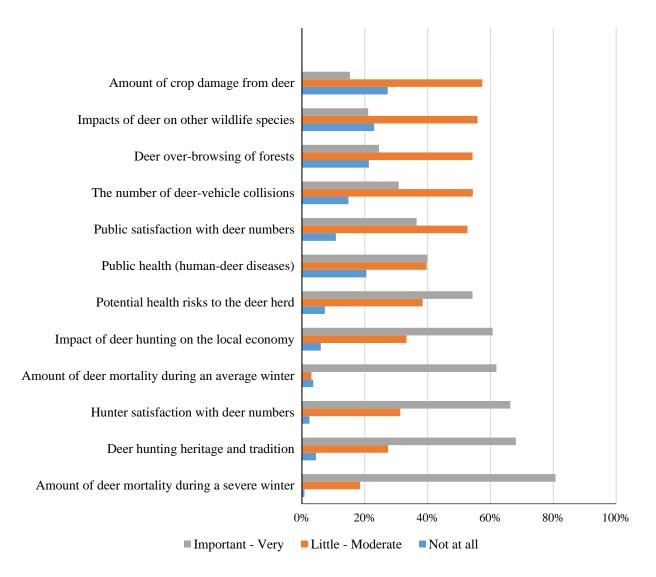
Consideration when setting deer population goals

Respondents were also asked to rate the importance of 12 items when setting deer population goals. They were expressed as items that respondents could consider as relatively important when setting deer population goals. The scale ranges from 'not at all important' to 'very important' and covered a range of items that would lead to management for either higher or lower deer populations. Overall, respondents were mixed in that they viewed severe winter mortality, hunter satisfaction, and deer hunting heritage as the 3 most important items. The amount of crop damage, impacts on other species, and deer over-browsing of forests were the 3 lowest variables (Table 7; Figure 3).

Table 7. Items that hunters believed should be important when considering setting deer population goals.

	Not	A			Very
Item	at all	little	Moderately	Important	Important
Amount of deer mortality during an average winter	4%	11%	24%	44%	18%
Amount of deer mortality during a severe winter	1%	5%	13%	37%	43%
Deer over-browsing of forests	21%	26%	29%	19%	5%
Public satisfaction with deer numbers	11%	20%	33%	25%	12%
Hunter satisfaction with deer numbers	2%	8%	23%	39%	27%
The number of deer-vehicle collisions	15%	27%	27%	21%	10%
Amount of crop damage from deer	27%	32%	25%	12%	4%
Impacts of deer on other wildlife species	23%	27%	29%	16%	5%
Potential health risks to the deer herd	7%	17%	22%	29%	25%
Public health (human-deer diseases)	21%	22%	18%	22%	18%
Impact of deer hunting on the local economy	6%	11%	23%	31%	29%
Deer hunting heritage and tradition	5%	9%	19%	30%	39%

Figure 3. Graphical importance of items that should be considered when setting deer population goals as defined by hunters. Items were consolidated into 3 groups and ranked by relative importance from low to high.



Landowner Survey

Demographics

We received 204, 231, 252, and 265 responses from the 4 strata, respectively. In total, 62% of respondents indicated they hunted deer in Minnesota during the 2013 deer season; similar percentages were reported for 2011 (64%) and 2012 (63%). Since those percentages did not vary, tables that describe hunter attitudes are based off whether or not they hunted in 2013 only. By stratum, a lower proportion of respondents who owned 2-20 acres indicated they hunted (48%), as compared to other landowners (20-79.9: 61%; 80-319.9: 66%; 320+: 69%). Overall, individuals had hunted an average of 39 years. In total, 91% of respondents were male and the average age was 62.0 (range = 24-94).

Hunting patterns

A majority of landowners did most (22%) or all (58%) of their hunting on their own private land. More than half (58%) did at least some hunting on public land and small percentage leased land for hunting (8.2%). In total, 31% hunted on private land they did not own. Regardless of where they hunted, a majority of hunting landowners expressed a desire for an increase in deer numbers (Table 8).

In total, 73% indicated they allowed hunting on their property. As expected, individuals with smaller parcels allowed hunting at lower rates (45%) then landowners with at least 20 acres (73% - 86%). Overall, only 3.4% (n = 24) of landowners indicated they leased their property for hunting. With respect to who is allowed to hunt, 83% indicated family members, 57% indicated friends or neighbors, and 9.4% allowed strangers who asked permission.

Reported damage from deer

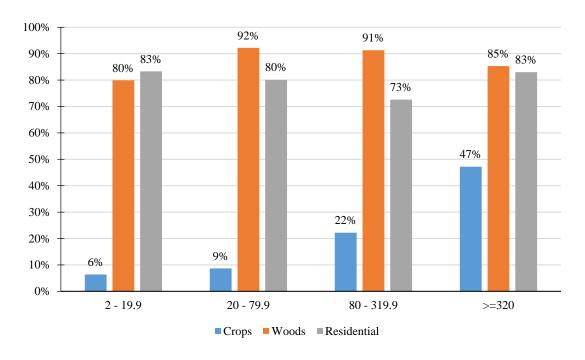
The percentage of landowners who had acreage in crops (e.g., row crops, small grains, orchards, vegetables) increased by stratum. The percentage of respondents who owned woodlands or residential properties was consistent among stratum (Figure 4). Overall, 56% of landowners reported crop damage from deer and that percentage was not statistically different among stratum. Only 10% of woodlot owners indicated they had damage from deer; more landowners indicated residential damage (23%) (Figure 5).

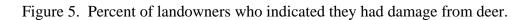
We observed no clear patterns of severity of damage based on land type (crop, woods, residential) or strata by deer permit area. Landowners were most likely to describe their crop damage as 'minor' (52%) or 'moderate' (26%). Only 14% described damage as 'negligible' and smaller percentages indicated 'severe' or 'very severe' (8%) (Table 9). We observed a statistical difference among deer permit areas for landowners who reported damage to crops in that landowners in deer area 172 reported lower damage amounts. We found no differences in woods, or residential acreage damage (Figure 6).

Table 8. Condensed table of desired deer population trends for landowners that hunted by land type hunted.

		Desired Population Trend					
			No				
Type of land hunted		Decrease	Change	Increase			
	None	9%	12%	79%			
Duissata land that Larry	Some	10%	18%	72%			
Private land that I own	Most	5%	12%	83%			
	All	7%	14%	79%			
	None	6%	14%	80%			
Private land that I lease	Some	0%	0%	100%			
for hunting	Most	25%	25%	50%			
	All	0%	0%	100%			
	None	7%	14%	79%			
Private land that I do	Some	10%	10%	79%			
not own or lease	Most	7%	27%	67%			
	All	0%	25%	75%			
	None	7%	12%	81%			
D 11' 1 1	Some	9%	16%	76%			
Public land	Most	6%	11%	83%			
	All	5%	11%	84%			

Figure 4. Percent of landowners who owned crops, woods, and residential acreage.





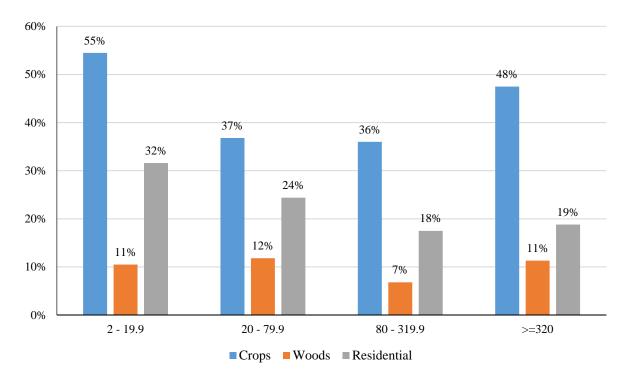


Table 9. Self-described damage caused by deer for crops, woods, and residential land types.

				Strata		
		2 - 19.9	20 - 79.9	80 - 319.9	>=320	Total
	Negligible	11%	10%	7%	17%	14%
	Minor	44%	30%	56%	54%	52%
Crops	Moderate	33%	30%	30%	23%	26%
	Severe	11%	30%	7%	4%	8%
	Very Severe	0%	0%	0%	1%	1%
	Negligible	25%	22%	32%	16%	23%
	Minor	48%	52%	45%	55%	51%
Woods	Moderate	23%	18%	17%	23%	20%
	Severe	2%	9%	5%	6%	6%
	Very Severe	2%	0%	0%	1%	1%
	Negligible	24%	21%	25%	16%	21%
	Minor	52%	49%	44%	54%	50%
Residential	Moderate	21%	21%	22%	21%	21%
	Severe	2%	10%	8%	7%	7%
	Very Severe	2%	0%	0%	1%	1%

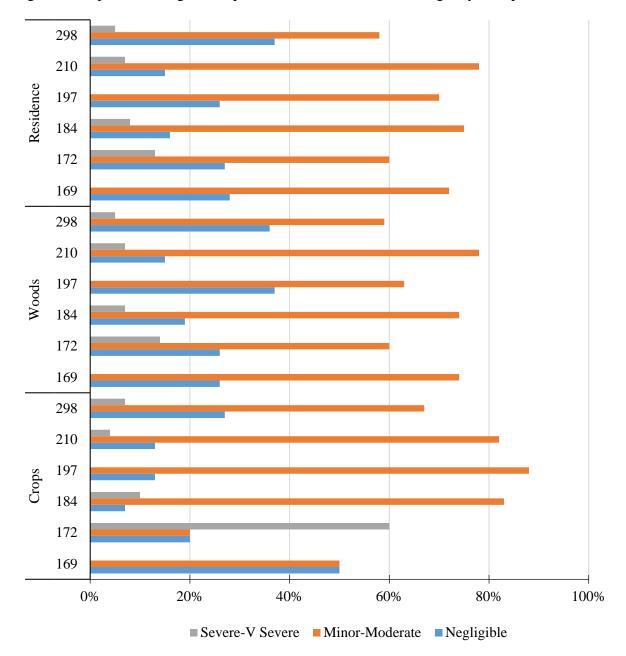


Figure 6. Reported damage to crops, woods, and residential acreage, by deer permit area.

Population trends and perceptions about deer populations

Respondents were asked to indicate their perceptions of deer population trends over the last 5 years. Overall, 75% (63% non-hunters, 82% hunters) of respondents indicated there were fewer deer than 5 years ago, 7.1% (11% non-hunters, 4.9% hunters) indicated more, and 18% (26% non-hunters, 14% hunters) believed populations were the same. Respondents in deer area 172 were most likely to indicate populations were the same from 5 years ago (33%; Table 10). Respondents were also asked for their perceptions of total deer population size as rated by 'too low', 'about right', or 'too high'. Non-hunting landowners were far more likely to indicate the

deer population was 'about right (53% vs. 25%), while hunters were far more likely to indicate populations were 'too low' (65% vs 20%). Non-hunters were much more likely to indicate the population was 'too high' (9.7% hunters, 27% non-hunters). Similar patterns were detected by deer area in that hunting landowners were much more likely to express different population desires than non-hunting landowners (Table 11). Respondents were also asked to indicate their desires for future deer population densities and 68% wanted to see an increase in deer densities at some level (Table 12, Figure 7). We also observed clear differences between hunting and non-hunting landowners with hunting landowners indicating stronger preferences for higher deer populations (Table 13; Figure 8).

Table 10. Perceptions of landowner deer population trends over the last 5 years, by deer area.

	Lower		Th	ne Same	Higher		
Deer Area	N	Percent	N	Percent	N	Percent	
169	109	78%	26	19%	4	3%	
172	67	55%	41	33%	15	12%	
184	216	74%	49	17%	28	10%	
197	71	75%	15	16%	9	10%	
210	146	85%	19	11%	7	4%	
298	78	83%	15	16%	1	1%	
Total	687	75%	165	18%	64	7%	

Table 11. Landowner beliefs about current deer population densities, by deer area and whether or not they hunted.

Hunt	Deer		Too		About		Too
	Area	N	low	N	right	N	high
	169	19	40%	28	58%	1	2%
	172	12	25%	25	52%	11	23%
NT	184	32	34%	46	48%	17	18%
No (38%)	197	18	46%	21	54%	0	0%
(3670)	210	20	32%	36	58%	6	10%
	298	19	59%	11	34%	2	6%
	Sum	120	37%	167	52%	37	11%
	160	72	920/	1.4	1.60/	2	20/
	169	73	82%	14	16%	2	2%
	172	42	57%	28	38%	4	5%
Yes	184	134	68%	54	27%	10	5%
(62%)	197	38	68%	16	29%	2	4%
, ,	210	74	68%	32	29%	3	3%
	298	51	84%	10	16%	0	0%
	Sum	412	70%	154	26%	21	4%
	169	92	67%	42	31%	3	2%
	172	54	44%	53	43%	15	12%
	184	166	57%	100	34%	27	9%
Total	197	56	59%	37	39%	2	2%
	210	94	55%	68	40%	9	5%
	298	70	75%	21	23%	2	2%
	Total	532	58%	321	35%	58	6%

Table 12. Preferred landowner population trends, by deer area.

(a) by individual response

Deer	Dec	Dec	Dec	No	Inc	Inc	Inc
Area	50%	25%	10%	Change	10%	25%	50%
169	1%	2%	2%	20%	18%	26%	31%
172	2%	7%	5%	22%	25%	24%	14%
184	3%	6%	4%	22%	19%	31%	15%
197	0%	0%	3%	23%	27%	29%	17%
210	2%	2%	4%	26%	28%	25%	12%
298	3%	2%	1%	17%	18%	40%	18%
Total	2%	4%	4%	22%	22%	29%	17%

(b) Summarized by decrease, stay the same, increase

Deer			
Area	Decrease	Same	Increase
169	5%	20%	75%
172	14%	22%	63%
184	13%	22%	65%
197	3%	23%	73%
210	8%	26%	65%
298	6%	17%	76%
Total	10%	22%	68%

Figure 7. Graphical representation of desired deer population trends for landowners.

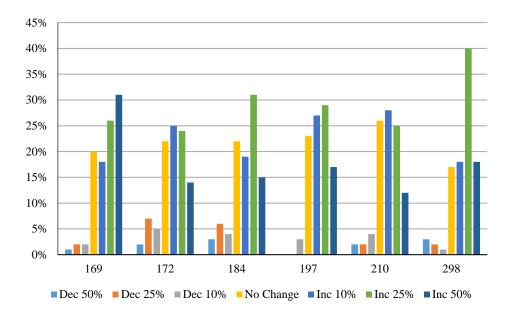
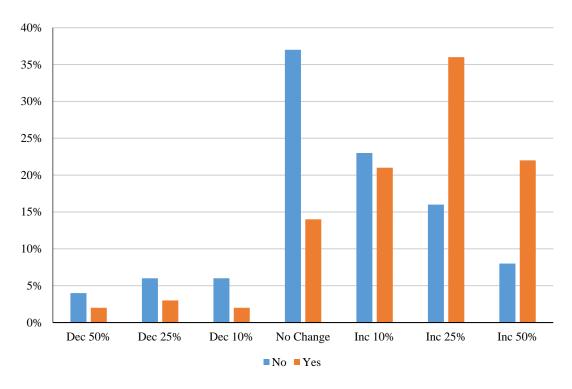


Table 13. Desired deer population trends for landowners, by deer area and whether or not they hunted.

Hunt	Deer	Dec	Dec	Dec	No	Inc	Inc	Inc
	Area	50%	25%	10%	Change	10%	25%	50%
	169	0%	2%	2%	49%	21%	13%	13%
	172	4%	15%	11%	30%	19%	19%	2%
N T	184	8%	11%	5%	34%	19%	13%	10%
No (38%)	197	0%	0%	3%	33%	28%	23%	13%
(36%)	210	3%	2%	9%	47%	26%	10%	3%
	298	3%	3%	3%	25%	34%	22%	9%
	Total	4%	6%	6%	37%	23%	16%	8%
	169	1%	2%	2%	5%	16%	33%	41%
	172	1%	3%	1%	18%	28%	27%	22%
Yes	184	2%	4%	4%	16%	18%	39%	17%
(62%)	197	0%	0%	4%	16%	27%	34%	20%
(02/0)	210	2%	3%	2%	16%	29%	32%	17%
	298	3%	2%	0%	13%	10%	49%	23%
	Total	2%	3%	2%	14%	21%	36%	22%

Figure 8. Graphical representation of landowner desires for future deer populations, by whether or not they hunted.



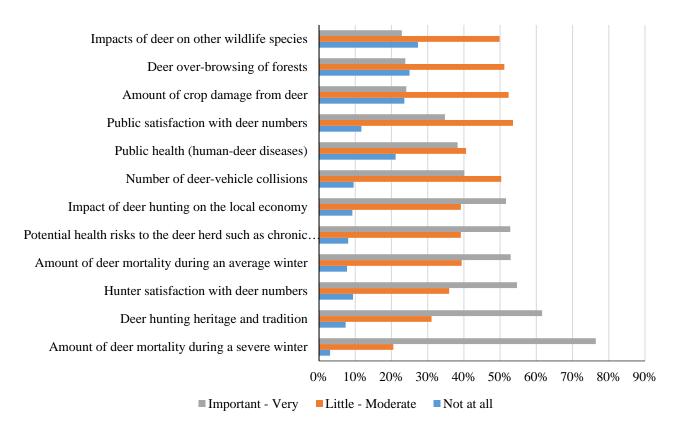
Consideration when setting deer population goals

Respondents were also asked to rate the importance of 12 items when setting deer population goals. The scale ranges from 'not at all important' to 'very important' and covered a range of items that would lead to both higher and lower deer populations. There were some similarities and some differences between the hunter and landowner surveys. Deer mortality during a severe winter, deer hunting tradition, and hunter satisfaction were the 3 most important considerations for landowner. Impacts of deer on other species, deer over-browsing, and crop damage had the lowest relative importance (Table 14; Figure 9).

Table 14. Importance of items landowners indicated should be considered when setting deer population goals.

	Not at	A			
Item	all	little	Moderately	Important	Very
Amount of deer mortality during an average winter	7%	11%	28%	40%	13%
Amount of deer mortality during a severe winter	3%	7%	14%	33%	43%
Deer over-browsing of forests	25%	26%	25%	16%	8%
Public satisfaction with deer numbers	12%	19%	35%	25%	9%
Hunter satisfaction with deer numbers	9%	13%	24%	34%	21%
Number of deer-vehicle collisions	10%	23%	27%	24%	16%
Amount of crop damage from deer	23%	27%	25%	16%	8%
Impacts of deer on other wildlife species	28%	25%	25%	18%	6%
Potential health risks to the deer herd	8%	18%	21%	28%	25%
Public health (human-deer diseases)	21%	23%	18%	21%	18%
Impacts of deer specifically on moose	7%	12%	19%	30%	32%
Impact of deer hunting on local economy	9%	14%	25%	30%	21%

Figure 9. Graphical importance of items that should be considered when setting deer population goals as defined by landowners. Items were consolidated into 3 groups and ranked from low to high by highest importance.



2014 Survey of Minnesota Deer Hunters: Population Management

The Minnesota Department of Natural Resources will be evaluating deer population goals in northern Minnesota this year. An important component of this project is to collect information from deer hunters regarding their opinions towards deer populations. You have been selected at random to participate in this survey. Please take a few moments to answer the questions below. Your responses will help guide deer population goals in the area you hunt. This survey should take less than 10 minutes to complete.

1.	Please check the boxes below to report if you hunted deer in Minnesota during the 2011, 2012 or 2013 Minnesota deer season. (<i>Please check all that apply</i>).									
	\square 2011 \square 2012 \square 2013									
	☐ I did not h	nunt deer any of these year	$rs \rightarrow Ple$	ase skip	to Question 13					
2.	. Minnesota allows people to hunt deer during all 3 seasons. For the most recent year you hunted, which seasons did you participate? Please mark 'Yes' if you hunted a season and also estimate the number of days you hunted.									
					If Yes,					
		Season	Yes	No	Number of Days					
		Archery								
		Firearm								
		Muzzleloader								
3.		permit area did you hunt m 172 □ 184 □ 197								
1.	If you did not hunt Area N	one of the permit areas lis Jumber	sted above	e, please	tell us which one you h	unted most often:				
5.	Including 2013, how	w many years have you hi	unted dee	r in the p	permit area you hunt mo	ost often?				
5.	Including 2013, how	w many years have you be	een huntii	ng deer i	n Minnesota?	Years				
7.	_	deer hunting did you do on? (Please circle one item			owing types of land dur	ing your most recent				
				None	Some Most	A 11				

	None	Some	Most	All
Private land that I own	1	2	3	4
Private land that I lease for hunting	1	2	3	4
Private land that I do <u>not</u> own or lease	1	2	3	4
Public land	1	2	3	4

8. Please indicate if there are any deer harvest restr Antlerless harvest is restricted, but hun	ters can take	any legal b	uck		
 □ Buck harvest restricted to large antlered □ Buck harvest restricted to large antlered □ No restrictions on the type of deer that □ Other (please explain): 	d bucks, and	antlerless h	•		_
9. Please indicate whether you agree or disagree wi hunt. (<i>Please circle one number for each stateme</i>		wing stateme	ents regardin	g your mos	t recent deer
	Strongly Disagree	Slightly Disagree	Neither Agree nor Disagree	Slightly Agree	Strongly Agree
I was satisfied with the number of legal bucks	1	2	3	4	5
I was satisfied with the quality of bucks	1	2	3	4	5
I heard about or saw legal bucks while hunting	1	2	3	4	5
I was satisfied with the number of antlerless deer	1	2	3	4	5
I was satisfied with the number of deer I saw while hunting	1	2	3	4	5
 10. Will you shoot an antlerless deer if given the opportunity of the past 5 years, what trend have you seen soften? □ Much fewer deer now than 5 years ago □ Slightly fewer deer now than 5 years ago □ About the same number of deer as 5 ye □ Slightly more deer now than 5 years ago □ Many more deer now than 5 years ago 	in the deer p go ears ago	oopulation in	the permit a	area you hu	nt most
 12. In thinking about the deer permit area you hunt, numbers. □ Very Dissatisfied □ Slightly Dissatisfied □ Neither Dissatisfied nor Satisfied □ Slightly Satisfied □ Very Satisfied 	please indica	ate your ove	rall satisfact	ion with cu	rrent deer

13. How much importance should we assign to each of the following considerations when setting deer population goals? (*Please circle one number for each statement below*).

	Not at all Important	A little Important	Moderately Important	Important	Very Important
Amount of deer mortality during an <u>average</u> winter	1	2	3	4	5
Amount of deer mortality during a <u>severe</u> winter	1	2	3	4	5
Potential health risks to the deer herd	1	2	3	4	5
Public health (human-deer diseases)	1	2	3	4	5
Amount of crop damage from deer	1	2	3	4	5
Number of deer-vehicle collisions	1	2	3	4	5
Deer over-browsing of forests	1	2	3	4	5
Impacts of deer on other wildlife species	1	2	3	4	5
Deer hunting heritage and tradition	1	2	3	4	5
Hunter satisfaction with deer numbers	1	2	3	4	5
Public satisfaction with deer numbers	1	2	3	4	5
Impact of deer hunting on the local economy	1	2	3	4	5

	ease identify up er population g		tors that you b	elieve are imp	ortant and sho	uld be conside	ered when setting
1)							
2)	·						
3)							
17. In	thinking about Much to thinking about pulation should	o Low \Box To	oo Low	oout Right ne surrounding	Too High	☐ Much too	
	1	2	3	4	5	6	7
	Decrease	Decrease	Decrease	No Change	Increase	Increase	Increase
	-	Population	-		Population	Population	Population
	50% (Significant)	25% (Moderate)	10% (Slight)		10% (Slight)	25% (Moderate)	50% (Significant)

18. To what extent would you support or oppose a regulation that bucks in the deer area you hunt most often? (<i>Check one</i>) ☐ Strongly Oppose	would inc	crease the	e proportio	on of ant	lered
☐ Slightly Oppose					
□ Neither Oppose nor Support□ Slightly Support□ Strongly Support					
19. Please let us know how you feel about the Minnesota Departr response for each of the following statements.)	nent of Na	tural Res	sources. (A	Please c	ircle one
	Strongly Disagree	Slightly Disagree	Neither Agree nor Disagree	Slightly Agree	Strongly Agree
The MnDNR does a good job of managing deer in Minnesota.	1	2	3	4	5
When deciding about deer management in Minnesota, the MnDNR will be open and honest in the things they do and say.	1	2	3	4	5
The MnDNR can be trusted to make decisions about deer management that are good for the resource.	1	2	3	4	5
The MnDNR will make decisions about deer management in a way that is fair.	1	2	3	4	5
The MnDNR has deer managers and biologists who are well-trained for their jobs.	1	2	3	4	5
The MnDNR listens to the concerns of deer hunters.	1	2	3	4	5
20. What is your gender? ☐ Male ☐ Female 21. What year were you born? (Please use the 4 dig	it year).				
If you would be willing to respond to additional questions about and are willing to provide your email address, please write it beloresearch related to deer management and will not share it with an	deer mana		-	-	
E-mail address:					

2014 Survey of Northern Minnesota Landowners: Deer Management

The Minnesota Department of Natural Resources will be evaluating deer population goals in northern Minnesota this year. An important component of this project is to collect information from landowners regarding their opinions towards deer populations and land management. You have been selected at random to participate in this survey. Please take a few moments to answer the questions below. This survey should take less than ten minutes to complete. Your responses will help guide deer population goals in the area you own land.

	Land Type	Acres Owned	Acres Leased	% Enrolled in Conservation Program
	Private Residence (house, lawns, associated buildings)			%
	Woodlands (natural forest or tree plantings)			%
	Brushland (including abandoned, overgrown fields)			%
	Hayfields, Pasture, or Grassland			%
	Wetlands			%
	Row Crops			%
	Small Grains			%
	Orchards or Vineyards			%
	Vegetables or other Truck Crops			%
	Prairie (Native or Restored)			%
	Wildlife Food Plots			%
	Other (please list:	_)		%
]	Did you experience deer damage to land that you own or le Crops Woodlands Landscaping Yes No	$\stackrel{\circ}{\longrightarrow}$ $\stackrel{\Pi}{\longrightarrow}$		E <u>NO</u> PLEASE UESTION 6
]	How would you describe the total amount of deer damage : ☐ Negligible ☐ Minor ☐ Moderate ☐ Se		ed in 2013? ((Check one)
	How would you compare the amount of deer damage you ended (Check one)	experienced in	2013 to wha	at you experienced 5 years

6.	 Over the past 5 years, what trend have you seen in the deer population in the area of your property? (Check one) ☐ Much fewer deer now than 5 years ago ☐ Slightly fewer deer now than 5 years ago ☐ About the same number of deer now as 5 years ago ☐ Slightly more deer now than 5 years ago ☐ Many more deer now than 5 years ago 					
7.	7. In thinking about your property and the surrounding area, please indicate your overall satisfaction with current deer numbers. (<i>Check one</i>) Uvery Dissatisfied Slightly Dissatisfied Neither Dissatisfied nor Satisfied Slightly Satisfied Very Satisfied Very Satisfied					
8.	How much importance should we assign to each (Please circle one number for each statement bel		ng consideration	ons when settii	ng deer popula	ation goals?
	·	Not at all Important	A little Important	Moderately Important	Important	Very Important
Ar	nount of deer mortality during an average winter	1	2	3	4	5
Ar	nount of deer mortality during a severe winter	1	2	3	4	5
Potential health risks to the deer herd such as chronic wasting disease		1	2	3	4	5
Pu	blic health (human-deer diseases)	1	2	3	4	5
Amount of crop damage from deer		1	2	3	4	5
Number of deer-vehicle collisions		1	2	3	4	5
De	er over-browsing of forests	1	2	3	4	5
Im	pacts of deer on other wildlife species	1	2	3	4	5
De	er hunting heritage and tradition	1	2	3	4	5
Ηυ	inter satisfaction with deer numbers	1	2	3	4	5
Pu	blic satisfaction with deer numbers	1	2	3	4	5
Im	pact of deer hunting on the local economy	1	2	3	4	5
9.	Please identify up to 3 other factors that you belied population goals. 4)					
11.	In thinking about your property and the surround: ☐ Much too Low ☐ Too Low ☐ Abou	•	•			ne)

	should be managed	? (Please circle	e one)					
	1	2	3	4	5	6	7	
	Decrease Population 50% (Significant)	Decrease Population 25% (Moderate)	Decrease Population 10% (Slight)	No Change	Increase Population 10% (Slight)	Increase Population 25% (Moderate)	Increase Population 50% (Significant)	
13.	Did you allow hunt	ing on your pro	perty during the	2013 deer seas	son? (Check only	y one)		
	☐ Yes ☐ No→PLE	EASE SKIP TO	QUESTION 16	j.				
14.	Do you lease any or Yes No	f your property	for deer hunting	7?				
15.	Who did you allow who hunted your pr			(Check all tha	t apply). Please	also estimate t	he number of peopl	le
	☐ Myself or fan	nily members	people	e Strang	ers who ask peri	mission	people	
	☐ Friends or nei	ighbors	people	e People	who lease my p	property	people	
	☐ Other (please	list:				p	eople	
16.	□ Buck har□ Buck har□ No restrict	s harvest is rest vest restricted t vest restricted t ctions on the ty	ricted, but hunte o large antlered	ers can take any bucks, but hun bucks, and antl an be harvested	legal buck ters can take any erless harvest is	antlerless dee	•	
17.	Please check the bo (Please check all th	•	ou hunted deer in	n Minnesota du	ring the 2011, 20	012 or 2013 Mi	innesota deer seaso	n'
			□ 2013 unt any of these → Please skip to	-	e skip to Questi	on 20		
18.	Which ONE deer p	·			most recent deer	•		
19.	If you <u>did not hunt</u>	one of the perme	iit areas listed ab	oove, please tel	l us which one y	ou hunted mos	t often:	

12. In thinking about your property and the surrounding area, at what level do you think the deer population

20.	How much of your deer hunting did you do on each of the following types of land during your most recent deer
	hunting season? (Circle one number for each row)

	None	Some	Most	All
Private land that I own	1	2	3	4
Private land that I lease for hunting	1	2	3	4
Private land that I do <u>not</u> own or lease	1	2	3	4
Public land	1	2	3	4

21.	Including 2013,	how many years	have you been l	hunting deer in	Minnesota?	Years
		iio iiidiij j tais	1100 10 1000 00011 1		_	

22.	To what extent would you support or oppose a regulation that would increase the proportion of antlered bucks in the
	area you own property? (Check one)

		Strongly	Oppose
--	--	----------	--------

- ☐ Slightly Oppose
- ☐ Neither Oppose nor Support
- ☐ Slightly Support
- ☐ Strongly Support

22. Please let us know how you feel about the Minnesota Department of Natural Resources. (*Please circle one response for each of the following statements.*)

	Strongly Disagree	Slightly Disagree	Neither Agree nor Disagree	Slightly Agree	Strongly Agree
The MnDNR does a good job of managing deer in Minnesota.	1	2	3	4	5
When deciding about deer management in Minnesota, the MnDNR will be open and honest in the things they do and say.	1	2	3	4	5
The MnDNR can be trusted to make decisions about deer management that are good for the resource.	1	2	3	4	5
The MnDNR will make decisions about deer management in a way that is fair.	1	2	3	4	5
The MnDNR has deer managers and biologists who are well-trained for their jobs.	1	2	3	4	5
The MnDNR listens to the concerns of landowners.	1	2	3	4	5

24.	What	is	your	gend	ler?
	, ,		J	5	

□ Male	☐ Female

25. What year were you born? _____ (Please use the 4 digit year)

If you would be willing to respond to additional questions about deer management and hunting in Minnesota and are willing to provide your email address, please write it below. We will only use your email address for research related to deer management and will not share it with anyone.

E-mail address:	