

East Central Uplands Deer Goal Setting – Block G4 Landowner and Hunter Survey Results



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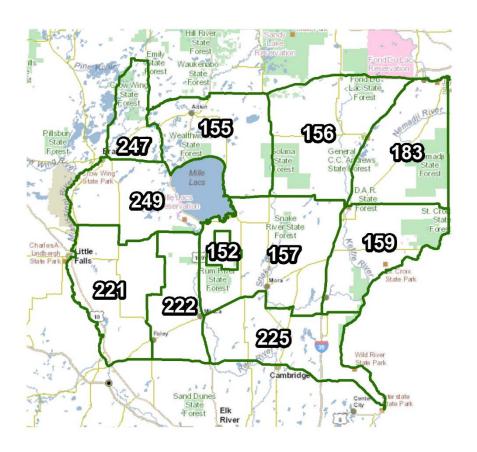
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Public Surveys for Deer Goal Setting

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 4, East Central Uplands.



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 152, 155, 156, 157, 159, 183, 221, 222, 225, 247, or 249. A total of 123 were undeliverable and we received 773 completed responses, which yielded an adjusted response rate of 31%. Deer area 152 (Mille Lacs WMA) is comprised entirely of public land so there was no was no landowner survey. 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 all 4 stratum (n = 650). Overall, there were 288 undeliverable surveys; 914 completed landowner surveys were returned, yielding a 37% adjusted response rate. For both surveys, our error rate at the goal block level was approximately 3%.

Hunter Survey

Demographics

Nearly all respondents (98%) indicated they hunted during the 2013 firearm deer season. Overall 25% indicated they hunted deer during the archery season and 11% hunted muzzleloader. Firearm hunters spent an average of 5.4 days afield, compared to 6.2 for muzzleloader and 17.7 for archery hunters. Overall, individuals had hunted an average of 27 years in Minnesota and 19 years in the deer area they indicated they hunted most often. Overall, 89% of respondents were male and the average age was 48.7 (range = 16 - 87).

More than half of hunters did at least some of their hunting on their own private land (68%) or other private land (68%). Slightly more than half (55%) did at least some of their hunting on public land. Another 9.4% indicated they did at least some hunting on lands that they leased for deer hunting. Only 2.9% 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, 76% of respondents indicated there were fewer deer than 5 years ago, 6% indicated more, and 18% believed populations were the same. We observed some differences; hunters in deer area 156 were most likely to indicate populations had declined (89%); conversely, hunters in deer area 225 were least likely to indicate a population decline (59%) (Table 2). Respondents were also asked for their perceptions of total deer population size as rated by 'too low', 'about right', or 'too high'. Nearly two-thirds (69%) believed the population was 'too low', 28% thought it was 'about right', and 2% indicated the population was 'too high'. We observed statistical differences among deer permit areas with similar patterns as described above (Table 3). Respondents were also asked to indicate their desires for future deer population densities and 77% wanted to see an increase in deer densities at some level (Table 4, Figure 1). 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	9%	14%	77%	
Duizzata land that Lazzu	Some	8%	12%	80%	
Private land that I own	Most	5%	20%	76%	
	All	6%	18%	76%	
	None	7%	15%	78%	
Private land that I lease	Some	7%	40%	53%	
for hunting	Most	0%	25%	75%	
	All	0%	17%	83%	
	None	4%	15%	82%	
Private land that I do	Some	5%	14%	81%	
not own or lease	Most	7%	14%	79%	
	All	10%	19%	71%	
	None	7%	18%	75%	
D 11' 1 1	Some	5%	15%	80%	
Public land	Most	6%	6%	88%	
	All	6%	16%	79%	

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

]	Lower	Th	The Same		Higher
Deer Area	N	Percent	N	Percent	N	Percent
152	5	83%	1	17%	0	0%
155	58	66%	24	27%	6	7%
156	80	89%	8	9%	2	2%
157	108	80%	18	13%	9	7%
159	70	82%	13	15%	2	2%
183	70	79%	10	11%	9	10%
221	39	77%	7	14%	5	10%
222	30	71%	11	26%	1	2%
225	38	59%	22	34%	4	6%
247	28	82%	5	15%	1	3%
249	26	61%	13	30%	4	9%
Total	552	76%	132	18%	43	6%

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

_	Too	Too Low About Right Too H		High		
Deer Area	N	Percent	N	Percent	N	Percent
152	5	83%	1	17%	0	0%
155	59	68%	25	29%	3	3%
156	77	86%	13	14%	0	0%
157	88	65%	46	34%	1	1%
159	68	81%	14	17%	2	2%
183	75	85%	12	14%	1	1%
221	26	51%	22	43%	3	6%
222	25	60%	16	38%	1	2%
225	32	51%	28	44%	3	5%
247	24	73%	8	24%	1	3%
249	22	51%	19	44%	2	5%
Total	501	69%	204	28%	17	2%

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

(a) By individual response

	Dec	Dec	Dec	No	Inc	Inc	Inc
Deer Area	50%	25%	10%	Change	10%	25%	50%
152	17%	0%	0%	17%	17%	50%	0%
155	0%	5%	2%	20%	18%	29%	26%
156	1%	2%	3%	7%	17%	37%	33%
157	0%	1%	3%	17%	29%	29%	21%
159	4%	2%	0%	12%	19%	40%	23%
183	0%	2%	2%	9%	17%	34%	34%
221	0%	2%	4%	27%	25%	25%	16%
222	2%	0%	5%	24%	33%	24%	12%
225	2%	6%	5%	21%	32%	27%	8%
247	3%	0%	0%	15%	21%	42%	18%
249	0%	2%	0%	35%	28%	21%	14%
Total	1%	2%	3%	17%	23%	32%	22%

(b) Summarized by decrease, same, increase

Deer Area	Decrease	Same	Increase
152	17%	17%	67%
155	7%	20%	73%
156	6%	7%	87%
157	4%	17%	79%
159	6%	12%	82%
183	4%	9%	85%
221	6%	27%	66%
222	7%	24%	69%
225	13%	21%	67%
247	3%	15%	81%
249	2%	35%	63%
Total	6%	17%	77%

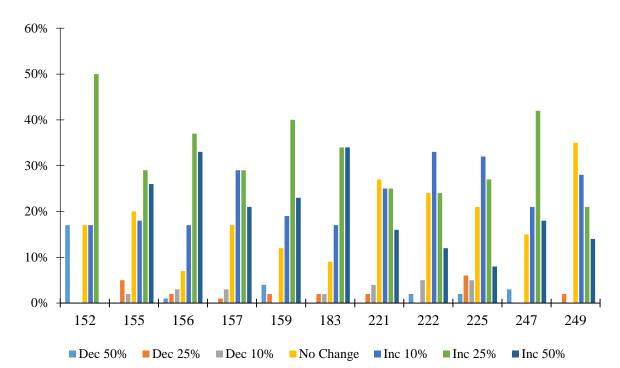


Figure 1. Graphical representation of hunters' desired deer population trends.

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. Only 19% were satisfied with current deer numbers; 66% indicated dissatisfaction (Table 5). In total, only 29% indicated they were satisfied with the total number of deer they saw while hunting (60% were not satisfied and 11% were neutral). Thirty nine percent were satisfied with the total number of antlerless deer they observed. Only one-quarter (26%) were satisfied with the number of legal bucks observed; more than half were dissatisfied (59%). Half (50%) indicated they saw heard about or saw legal bucks while hunting. More hunters (57%) were dissatisfied than satisfied (27%) 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 were not satisfied with the number of deer they saw while hunting (range = 53% - 74%) (Figure 2).

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

	Dissa	atisfied	Ne	Neither		isfied
DPA	N	Percent	N	Percent	N	Percent
152	5	83%	1	17%	0	0%
155	52	59%	14	16%	22	25%
156	67	74%	15	17%	8	9%
157	84	62%	26	19%	25	19%
159	62	73%	14	17%	9	11%
183	71	80%	9	10%	9	10%
221	33	65%	7	14%	11	22%
222	23	55%	7	17%	12	29%
225	35	55%	6	9%	23	36%
247	24	71%	4	12%	6	18%
249	24	56%	9	21%	10	23%
Total	480	66%	112	15%	135	19%

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

			Deer Area				
		152	155	156	157	159	183
	Disagree	50%	56%	72%	55%	72%	70%
I was satisfied with the number of legal bucks	Neither	0%	14%	18%	17%	14%	9%
or legal bucks	Agree	50%	31%	10%	28%	14%	21%
I was satisfied with the quality of bucks	Disagree Neither Agree	50% 0% 50%	42% 21% 38%	69% 18% 14%	56% 18% 26%	62% 15% 22%	64% 8% 28%
I heard about or saw legal bucks while hunting	Disagree Neither Agree	67% 33% 0%	43% 9% 48%	48% 13% 40%	36% 13% 52%	39% 12% 49%	53% 6% 41%
I was satisfied with the total number of antlerless deer	Disagree Neither Agree	50% 0% 50%	46% 17% 38%	64% 9% 27%	46% 12% 43%	51% 13% 37%	62% 12% 26%
I was satisfied with the total number of deer I saw while hunting	Disagree Neither Agree	67% 17% 17%	57% 13% 31%	75% 10% 15%	56% 15% 30%	65% 8% 27%	76% 7% 17%

				Deer	Area		
		221	222	225	247	249	Total
	Disagree	51%	43%	42%	68%	54%	59%
I was satisfied with the number of legal bucks	Neither	20%	29%	14%	9%	14%	15%
or legal bucks	Agree	29%	29%	44%	24%	33%	26%
I was satisfied with the smalter	Disagree	61%	52%	44%	74%	56%	57%
I was satisfied with the quality of bucks	Neither	16%	17%	17%	12%	7%	15%
of bucks	Agree	24%	31%	39%	15%	37%	27%
Though shout on some local	Disagree	28%	21%	30%	32%	35%	39%
I heard about or saw legal bucks while hunting	Neither	10%	19%	14%	15%	12%	12%
bucks while hunting	Agree	62%	60%	56%	53%	54%	50%
I was satisfied with the total	Disagree	43%	39%	36%	38%	40%	48%
I was satisfied with the total number of antlerless deer	Neither	16%	7%	11%	24%	9%	13%
number of antierress deer	Agree	41%	54%	53%	38%	51%	39%
I was satisfied with the total	Disagree	57%	48%	48%	53%	49%	60%
number of deer I saw while	Neither	8%	14%	11%	24%	5%	11%
hunting	Agree	35%	38%	41%	24%	47%	29%

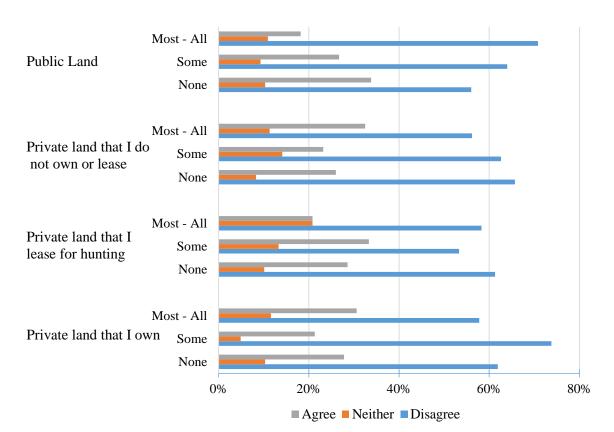


Figure 2. Hunter satisfaction with total number of deer seen, based on land type hunted.

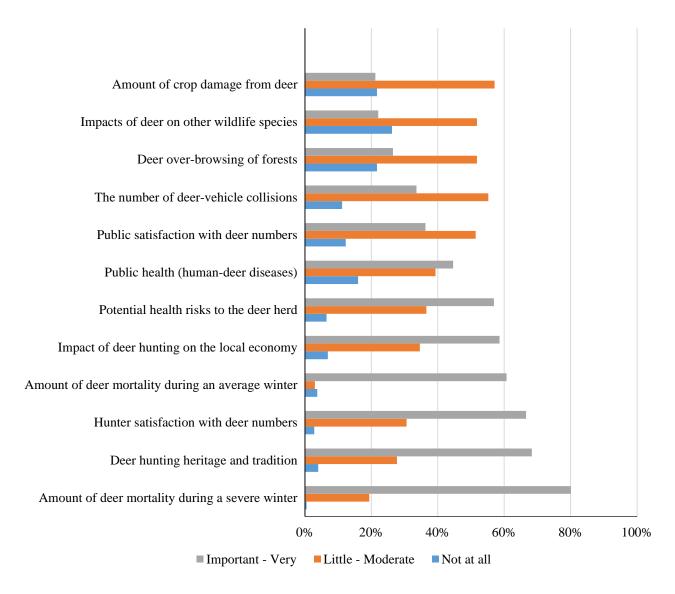
Consideration when setting deer population goals

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 viewed severe winter mortality, hunting tradition, and hunter satisfaction 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.

Relative Importance Not at all A little Moderately Item **Important** Very Amount of deer mortality during an average winter 4% 12% 24% 43% 18% Amount of deer mortality during a severe winter 5% 15% 39% 41% 1% Deer over-browsing of forests 22% 23% 29% 20% 7% Public satisfaction with deer numbers 12% 25% 27% 27% 10% Hunter satisfaction with deer numbers 3% 9% 22% 42% 24% The number of deer-vehicle collisions 11% 26% 29% 23% 10% Amount of crop damage from deer 22% 4% 31% 26% 17% Impacts of deer on other wildlife species 25% 27% 17% 5% 26% Potential health risks to the deer herd 7% 29% 28% 16% 21% Public health (human-deer diseases) 16% 21% 18% 25% 20% Impact of deer hunting on the local economy 7% 12% 23% 34% 25% Deer hunting heritage and tradition 4% 9% 19% 32% 36%

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 184, 220, 263, and 247 responses from the 4 strata, respectively. In total, 65% of respondents indicated they hunted deer in Minnesota during the 2013 deer season; similar percentages were reported for 2011 (65%) and 2012 (65%). Since those percentages of landowners that hunted 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 (40%), as compared to other landowners (20-79.9: 65%; 80-319.9: 69%; 320+: 72%). Overall, individuals had hunted an average of 37 years. Overall, 87% of respondents were male and the average age was 60.5 (range = 20-94).

Hunting patterns

A majority of landowners did most (19%) or all (70%) of their hunting on their own private land. Only 38% of all landowners did at least some hunting on public land, while 38% also hunted private land they didn't own. Regardless of where they hunted, a majority of hunting landowners expressed a desire for an increase in deer numbers (Table 8).

Slightly more than two-thirds (76%) indicated they allowed hunting on their property. As expected, individuals with smaller parcels allowed hunting at lower rates (40%) then landowners with at least 20 acres (range = 78% - 87%). Overall, only 3.1% (n = 28) of landowners indicated they leased their property for hunting. With respect to who is allowed to hunt, 88% indicated family members, 58% indicated friends or neighbors, and 10% 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 with stratum (range 10% - 55%). The percentage of respondents who owned woodlands or residential properties was consistent among stratum (Figure 4). Landowners who owned at least 320 acres were most likely to indicate they had damage to their crops (62%). A smaller percentage of respondents indicated they had woodlot (9.0%) or residential (20%) damage from deer. With respect to residential damage, landowners who owned <20 acres were slightly more inclined to indicate residential damage from deer (Figure 5).

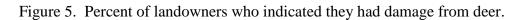
We observed no statistical differences among severity of damage based on land type (crop, woods, residential) or strata by deer permit area. Essentially, crop damage due to deer was typically categorized as 'minor' or 'moderate', regardless of parcel size (Table 9). We also observed no statistical differences among deer permit areas for landowners who reported damage to crops, woods, or residential acreage (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	20%	42%	39%
Duivota land that Lavon	Some	11%	22%	67%
Private land that I own	Most	11%	30%	59%
	All	12%	30%	58%
	None	16%	34%	50%
Private land that I lease	Some	9%	9%	82%
for hunting	Most	17%	33%	50%
	All	0%	0%	100%
	None	14%	36%	51%
Private land that I do	Some	9%	26%	64%
not own or lease	Most	3%	29%	69%
	All	27%	30%	43%
	None	17%	33%	50%
D 11' 1 1	Some	2%	32%	66%
Public land	Most	0%	7%	93%
	All	11%	37%	53%

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





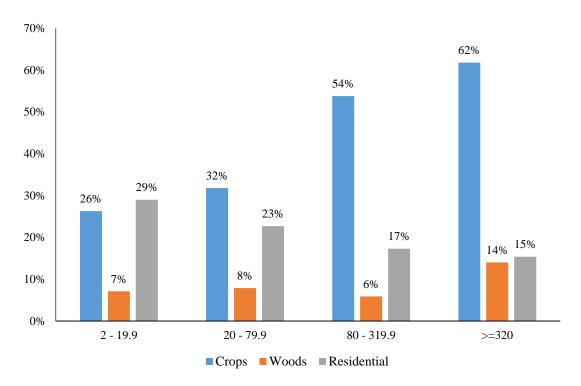
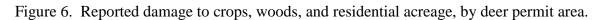
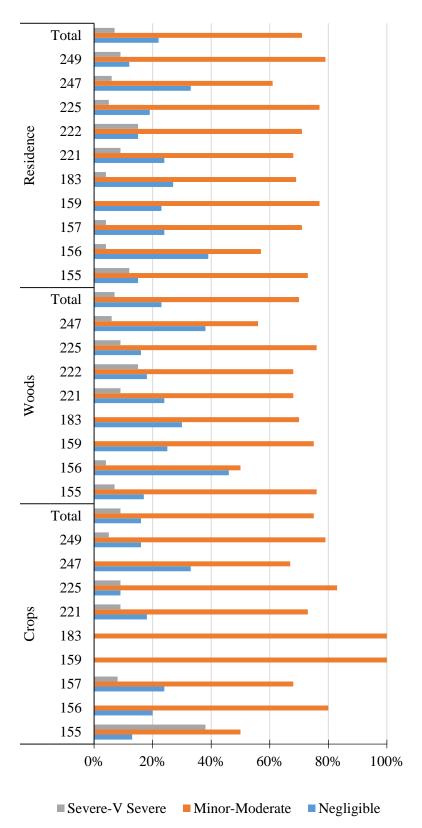


Table 9. Self-described damage caused by deer for crops, woods, and residential land types.

				Strata		
		2 - 19.9	20 - 79.9	80 - 319.9	>=320	Total
	Negligible	29%	20%	14%	15%	16%
	Minor	57%	40%	43%	51%	47%
Crops	Moderate	14%	35%	36%	22%	28%
	Severe	0%	5%	2%	8%	5%
	Very Severe	0%	0%	5%	5%	4%
	Negligible	28%	27%	25%	17%	23%
	Minor	50%	37%	45%	49%	46%
Woods	Moderate	20%	29%	24%	24%	24%
	Severe	2%	7%	2%	6%	5%
	Very Severe	0%	0%	3%	4%	2%
	Negligible	27%	26%	22%	16%	22%
	Minor	51%	38%	45%	49%	46%
Residential	Moderate	20%	28%	27%	24%	25%
	Severe	2%	9%	2%	6%	5%
	Very Severe	0%	0%	4%	5%	3%





Population trends and perceptions about deer populations

Respondents were asked to indicate their perceptions of deer population trends over the last 5 years. Overall, 65% (57% non-hunters, 69% hunters) of respondents indicated there were fewer deer than 5 years ago, 12% (18% non-hunters, 9.3% hunters) indicated more, and 23% (26% non-hunters, 22% hunters) believed populations were the same. Landowners in deer area 159 were most likely to indicate the population was lower (94%; 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 more likely to indicate the deer population was 'about right' (52% vs. 36%), while hunters were more likely to indicate populations were 'too low' (58% vs 33%). Non-hunters were more likely to indicate the population was 'too high' (5.4% hunters, 15% non-hunters). Similar patterns were detected by deer area in that hunting landowners were 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 58% 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.

	1	Lower	Th	The Same		Higher
Deer Area	N	Percent	N	Percent	N	Percent
155	77	70%	20	18%	13	12%
156	92	88%	11	11%	2	2%
157	113	76%	25	17%	11	7%
159	29	94%	2	7%	0	0%
183	53	66%	23	29%	4	5%
221	43	48%	28	32%	18	20%
222	53	58%	21	23%	17	19%
225	62	55%	38	34%	12	11%
247	14	38%	12	32%	11	30%
249	36	44%	25	31%	20	25%
Total	572	65%	205	23%	108	12%

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
	155	11	31%	19	53%	6	17%
	156	14	50%	12	43%	2	7%
	157	19	42%	16	36%	10	22%
	159	8	53%	5	33%	2	13%
	183	11	37%	17	57%	2	7%
No (35%)	221	7	29%	15	63%	2	8%
140 (3370)	222	11	32%	14	41%	9	27%
	225	9	17%	39	75%	4	8%
	247	3	21%	3	21%	8	57%
	249	8	29%	18	64%	2	7%
	Sum	101	33%	158	52%	47	15%
	155	50	69%	17	23%	6	8%
	156	56	74%	17	22%	3	4%
	157	70	69%	28	28%	4	4%
	159	13	81%	3	19%	0	0%
.	183	29	58%	18	36%	3	6%
Yes	221	27	43%	31	49%	5	8%
(65%)	222	35	61%	19	33%	3	5%
	225	24	42%	29	51%	4	7%
	247	9	39%	13	57%	1	4%
	249	20	38%	31	59%	2	4%
	Sum	333	58%	206	36%	31	5%
	155	61	56%	36	33%	12	11%
	156	70	67%	29	28%	5	5%
	157	89	61%	44	30%	14	10%
	159	21	68%	8	26%	2	7%
	183	40	50%	35	44%	5	6%
Total	221	34	39%	46	53%	7	8%
	222	46	51%	33	36%	12	13%
	225	33	30%	68	62%	8	7%
	247	12	32%	16	43%	9	24%
	249	28	35%	49	61%	4	5%
	Total	434	50%	364	42%	78	9%

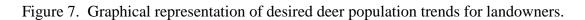
Table 12. Preferred landowner population trends, by deer area.

(a) by individual response

Deer	Dec	Dec	Dec	No	Inc	Inc	Inc
Area	50%	25%	10%	Change	10%	25%	50%
155	2%	5%	7%	15%	30%	25%	17%
156	2%	4%	0%	13%	31%	31%	20%
157	3%	4%	7%	21%	15%	28%	21%
159	3%	3%	0%	16%	13%	35%	29%
183	1%	3%	5%	30%	22%	22%	18%
221	2%	7%	7%	40%	19%	14%	11%
222	8%	4%	3%	27%	21%	23%	13%
225	3%	3%	6%	46%	25%	17%	2%
247	5%	16%	8%	35%	11%	19%	5%
249	0%	5%	4%	48%	16%	19%	9%
Total	3%	5%	5%	29%	21%	23%	14%

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

Deer			
Area	Decrease	Same	Increase
155	14%	15%	72%
156	6%	13%	82%
157	14%	21%	64%
159	6%	16%	77%
183	9%	30%	62%
221	16%	40%	44%
222	15%	27%	57%
225	12%	46%	44%
247	29%	35%	35%
249	9%	48%	44%
Total	13%	29%	58%



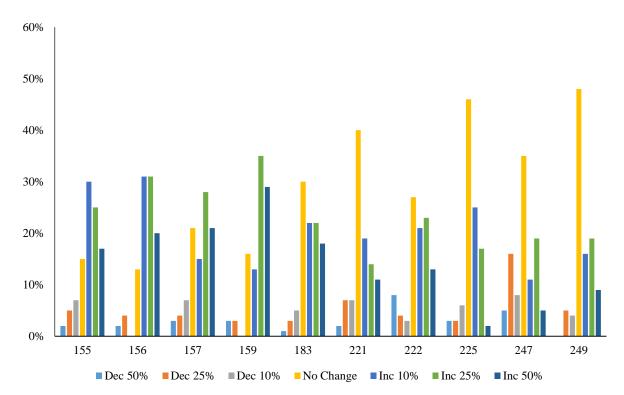
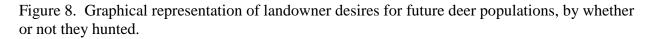
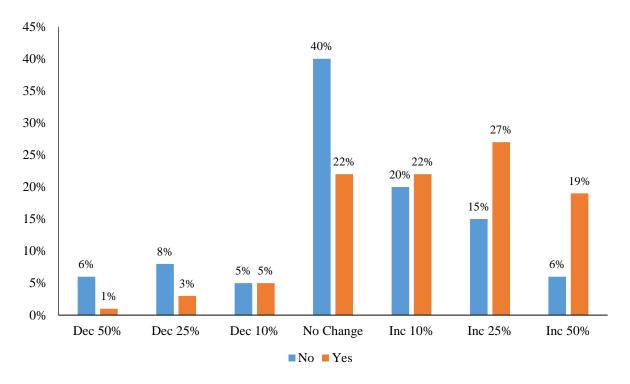


Table 13. Desired deer population trends for landowners, by deer area and whether or not they hunted.

11 4	Deer	Dec	Dec	Dec	No	Inc	Inc	Inc
Hunt	Area	50%	25%	10%	Change	10%	25%	50%
	155	3%	3%	11%	31%	33%	14%	6%
	156	4%	7%	0%	18%	36%	18%	18%
	157	9%	9%	9%	37%	13%	15%	9%
	159	7%	7%	0%	20%	20%	40%	7%
NT	183	3%	3%	3%	48%	24%	14%	3%
No	221	4%	13%	0%	54%	17%	13%	0%
(35%)	222	18%	9%	3%	35%	21%	12%	3%
	225	2%	6%	6%	57%	20%	8%	2%
	247	14%	36%	7%	14%	14%	14%	0%
	249	0%	4%	7%	57%	0%	21%	11%
	Total	6%	8%	5%	40%	20%	15%	6%
	155	1%	6%	6%	7%	28%	31%	22%
	156	1%	3%	0%	11%	29%	36%	21%
	157	1%	2%	7%	14%	16%	34%	26%
	159	0%	0%	0%	13%	6%	31%	50%
Yes	183	0%	2%	6%	20%	20%	26%	26%
(65%)	221	2%	5%	9%	34%	20%	14%	16%
(00,0)	222	2%	2%	4%	21%	21%	30%	20%
	225	3%	0%	5%	36%	29%	24%	2%
	247	0%	4%	9%	48%	9%	22%	9%
	249	0%	6%	2%	43%	25%	17%	8%
	Total	1%	3%	5%	22%	22%	27%	19%





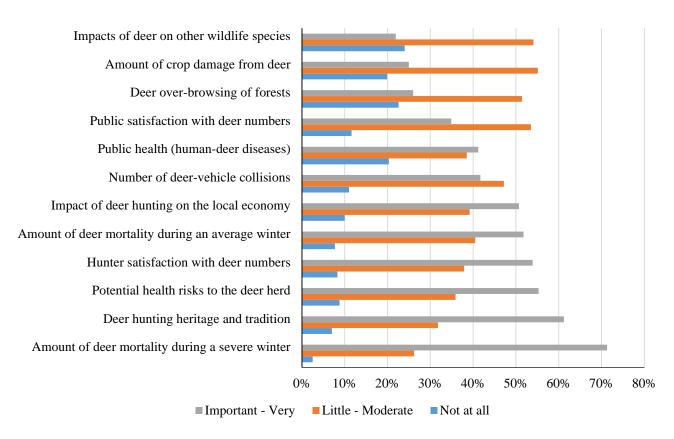
Consideration when setting deer population goals

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 or lower deer populations. Deer mortality during a severe winter, hunting tradition, and disease risks to deer were the 3 most important considerations for landowner. Impacts of deer on other species, deer over-browsing, and public health comprised 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	8%	14%	27%	36%	16%
Amount of deer mortality during a severe winter	3%	10%	17%	35%	37%
Deer over-browsing of forests	23%	23%	28%	19%	7%
Public satisfaction with deer numbers	12%	20%	34%	26%	9%
Hunter satisfaction with deer numbers	8%	12%	26%	33%	21%
Number of deer-vehicle collisions	11%	21%	26%	27%	15%
Amount of crop damage from deer	20%	24%	31%	19%	6%
Impacts of deer on other wildlife species	24%	25%	29%	17%	5%
Potential health risks to the deer herd	9%	17%	19%	31%	25%
Public health (human-deer diseases)	20%	21%	18%	22%	19%
Deer hunting heritage and tradition	7%	11%	21%	31%	31%
Impact of deer hunting on the local economy	10%	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.



Private land that I own

Public land

Private land that I lease for hunting

Private land that I do not own or lease

2014 Survey of Minnesota Deer Hunters: Population Management

The Minnesota Department of Natural Resources will be evaluating deer population goals in east-central 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.		xes below to report if you son. (<i>Please check all tha</i>		leer in M	Iinnesota during the 201	11, 2012 or 2013
	□ 2011 □ I did not h	☐ 2012 ☐ 2013 unt deer any of these year		ase skip	to Question 13	
2.		eople to hunt deer during ticipate? Please mark 'Yo				
					If Yes,	
		Season	Yes	No	Number of Days	
		Archery				
		Firearm				
		Muzzleloader				
4.	If you did not hunt of Area N		□ 235 1	☐ 236 e, please	□ 285 □ I hunted a tell us which one you h	permit area not listed nunted most often:
	Years	v many years have you hu		-	·	
6.	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	A11

•	6
4	U

8. Please indicate if there are any deer harvest restr Antlerless harvest is restricted, but hun Buck harvest restricted to large antlered Buck harvest restricted to large antlered No restrictions on the type of deer that	ters can taked bucks, but bucks, and can be harve	e any legal b hunters can antlerless h ested	uck take any ant	tlerless deer	
Other (please explain):Please indicate whether you agree or disagree with the control of the c	ith the follow		ents regardin	g your mos	– t recent deer
hunt. (Please circle one number for each stateme	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 often? Much fewer deer now than 5 years ago Slightly fewer deer now than 5 years ago About the same number of deer as 5 years ago Slightly more deer now than 5 years ago Many more deer now than 5 years ago Many more deer now than 5 years ago Wery Dissatisfied Slightly Dissatisfied Slightly Dissatisfied Neither Dissatisfied Slightly Satisfied Slightly Satisfied Very Satisfied	in the deer p go ars ago o				

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 severe 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)				 			
17. In	thinking about Much to thinking about pulation should	o Low To	oo Low 🗖 Al	oout Right C	Too High	☐ Much too	
	1	2	3	4	5	6	7
	Decrease	Decrease	Decrease	No Change	Increase	Increase	Increase
	Population 50% (Significant)	Population 25% (Moderate)	Population 10% (Slight)		Population 10% (Slight)	Population 25% (Moderate)	Population 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 Departments of the following statements.)	nent of Na	itural 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 belowesearch related to deer management and will not share it with an	w. We wi	_	•	_	
E-mail address:					

2014 Survey of Minnesota Landowners: Deer Management

The Minnesota Department of Natural Resources will be evaluating deer population goals in east-central 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:)			%
Ι	Crops	>> IF A		<u>NO</u> PLEASE ESTION 6
F	How would you describe the total amount of deer damage you ☐ Negligible ☐ Minor ☐ Moderate ☐ Severe	ver □ Ver	y Severe	(Check one) at you experienced 5 years

 ☐ Much fewer deer now than 5 years ago ☐ Slightly fewer deer now than 5 years a ☐ About the same number of deer now a ☐ Slightly more deer now than 5 years a ☐ Many more deer now than 5 years ago 	ngo s 5 years ago go				
7. In thinking about your property and the surround numbers. (<i>Check one</i>)	ling area, pleas	se indicate you	ır overall satisf	action with cu	ırrent deer
 □ Very Dissatisfied □ Slightly Dissatisfied □ Neither Dissatisfied nor Satisfied □ Slightly Satisfied □ Very Satisfied 					
8. How much importance should we assign to each (<i>Please circle one number for each statement be</i>		ng considerati	ons when setti	ng deer popula	ation goals?
, J	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 severe winter	1	2	3	4	5
Potential health risks to the deer herd such as chronic wasting disease	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
 9. Please identify up to 3 other factors that you believe population goals. 4)	ling area, woul	d you say the	deer populatio		
☐ Much too Low ☐ Too Low ☐ Abou	ut Kigiit 🗀 10	o nigil 🗀 N	Aucii too High		

6. Over the past 5 years, what trend have you seen in the deer population in the area of your property?

(Check one)

	should be managed	? (Please circl	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 sea	son? (Check onl	y one)	
	☐ Yes ☐ No→PLF	EASE SKIP TO	QUESTION 16	j			
14.	Do you lease any or	f your property	for deer hunting	?			
	☐ Yes ☐ No						
15.	Who did you allow who hunted your pr			(Check all tha	at apply). Please	also estimate t	he number of people
	☐ Myself or fan	nily members	people	e Strang	gers who ask per	mission	people
	☐ Friends or ne	ighbors	people	e People	e who lease my p	property	people
	☐ Other (please	list:					eople
16.	□ Buck har□ Buck har□ No restrict	s harvest is rest vest restricted t vest restricted t ctions on the ty	deer harvest restricted, but hunte to large antlered to large antlered pe of deer that ca	ers can take any bucks, but hun bucks, and ant an be harvested	r legal buck ters can take any lerless harvest is	antlerless dee also restricted	r
17.	Please check the bo	•	ou hunted deer in	Minnesota du	ring the 2011, 20	012 or 2013 Mi	innesota deer season
			□ 2013 unt any of these → Please skip to	•	se skip to Questi	on 20	
18.	Which ONE deer p	ermit area did	you hunt most of	ten during the	most recent deer	season you hu	inted?
	□ 219 □ 22	23 🗖 224 🗖	227 229	🗖 235 🗖	236 🗖 285	☐ I hunted a p	ermit area not listed
19.	If you did not hunt	one of the pern	<u>nit areas</u> listed ab	ove, please tel	l us which one y	ou hunted mos	t often:
	Ar	ea Number					

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

20.	How much of you	ur deer hunting did	you do on each o	of the following ty	ypes of land duri	ng your <u>mos</u>	st 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 ha	ive you been hunting	deer in Minnesota?	Years.

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
_	Duongry	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?	
	☐ Male	☐ Female	
25.	What year were y	ou born?	(Please use the 4 digit year)
wil	ling to provide you		ditional questions about deer management and hunting in Minnesota and are ease write it below. We will only use your email address for research related to ith anyone.
E-r	nail address:		