

# Responsive Management™



## **WYOMING MULE DEER HUNTERS' OPINIONS ON MULE DEER HUNTING AND MULE DEER MANAGEMENT**

**Conducted for the Wyoming Game and Fish Department**

**by Responsive Management**

**2012**

# **WYOMING MULE DEER HUNTERS' OPINIONS ON MULE DEER HUNTING AND MULE DEER MANAGEMENT**

**2012**

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## **Acknowledgments**

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## **EXECUTIVE SUMMARY**

### **INTRODUCTION AND METHODOLOGY**

This study was conducted for the Wyoming Game and Fish Department (WGFD) to determine mule deer hunters' opinions on the quality of mule deer hunting in Wyoming and their opinions on season structure and hunting regulations. The study entailed a telephone survey of resident and nonresident mule deer hunters.

For the survey, telephones were selected as the preferred sampling medium because of the almost universal ownership of telephones among the sample of hunters (both landlines and cell phones were called). Additionally, telephone surveys, relative to mail or Internet surveys, allow for more scientific sampling and data collection, provide higher quality data, obtain higher response rates, are more timely, and are more cost-effective. Telephone surveys also have fewer negative effects on the environment than do mail surveys because of reduced use of paper and reduced energy consumption for delivering and returning the questionnaires.

The telephone survey questionnaire was developed cooperatively by Responsive Management and the WGFD. Responsive Management conducted pre-tests of the questionnaire to ensure proper wording, flow, and logic in the survey.

The sample of resident and nonresident Wyoming mule deer hunters (license holders from any of the past 3 years who had hunted mule deer within the past 5 years) was obtained from the WGFD. The sample was representative of all mule deer hunters statewide who had obtained a license within the past 3 years. A screener question filtered out those hunting license holders who had not hunted mule deer within the past 5 years. The sample also did not include children (17 years old or younger) who hunted mule deer.

Telephone surveying times are Monday through Friday from 9:00 a.m. to 9:00 p.m., Saturday from noon to 5:00 p.m., and Sunday from 5:00 p.m. to 9:00 p.m., local time. The survey was conducted in July and August 2012. The software used for data collection was Questionnaire Programming Language. Responsive Management obtained a total of 2,448 completed interviews.

The analysis of data was performed using Statistical Package for the Social Sciences as well as proprietary software developed by Responsive Management. Throughout this report, findings of the telephone survey are reported at a 95% confidence interval. For the entire sample of Wyoming mule deer hunters, the sampling error is at most plus or minus 1.94 percentage points (2.41 among residents only, 3.29 among nonresidents only).

### **CHARACTERISTICS OF RESPONDENTS' MULE DEER HUNTING**

- More than a third of Wyoming hunters (37%) are relatively new to hunting mule deer, having hunted for mule deer in Wyoming for no more than 5 years. The median number of years hunting mule deer is 10 years.
- About two-fifths of Wyoming hunters are quite avid *mule deer* hunters: 39% have hunted mule deer all 5 of the past 5 years. Nearly half (49%) hunted them at least 4 of the past 5 years.
- About three quarters of mule deer hunters (76%) harvested a mule deer within the past 5 years, including 11% who have harvested all 5 of the past 5 years.
- The survey asked about days of mule deer hunting per hunter, with the most common response being 5 days. The mean is 7.38 days; the median is 5 days.
- Firearms are overwhelmingly the preferred equipment for mule deer hunting: 92% use firearms at least half the time. Nonetheless, 8% use archery most of the time, and another 15% use archery about equally with firearms (a sum of 22% using archery at least half the time).
- The rate of use of an outfitter or guide for mule deer hunting among mule deer hunters overall is 9%.

## **LOCATIONAL INFORMATION ABOUT MULE DEER HUNTING IN WYOMING**

- The survey asked mule deer hunters to name the hunt area in which they most often hunted in the past 5 years. From the data, hunters were categorized into hunt regions. The top-ranked regions among hunters overall are Cody (19% hunted most often in this region), Sheridan (18%), Laramie (13%), Green River (13%), and Casper (12%).
- A quarter of Wyoming hunters (25%) are willing to travel anywhere in the state (i.e., more than 500 miles) to hunt mule deer. The mean distance mule deer hunters would travel is 454 miles; the median is 175 miles.
- The survey asked mule deer hunters to indicate the number of different hunt areas in which they typically hunt in one season: more than half (52%) typically hunt only a single area. Nonetheless, 21% typically hunt three or more areas.
- Regarding the reasons mule deer hunters choose specific hunt areas in Wyoming, proximity is important: 32% of mule deer hunters choose a hunt area because it is close to home (the most common reason). Recommendations from family or friends (25%) is another important reason, followed by access (10%), a good chance of getting a deer (8%), and simple familiarity—hunted the same area before (8%).

## **OPINIONS ON THE QUALITY OF MULE DEER HUNTING IN WYOMING**

- A large majority of mule deer hunters (74%) were satisfied with their mule deer hunting in Wyoming the last time they went. At the other end, 22% were dissatisfied.
  - Those who gave a “satisfied” rating most commonly did so because they felt that there were plenty of mule deer, that they simply enjoy hunting, that they had harvest success, or that they were in a good location.
  - Those who gave a “dissatisfied” rating most commonly did so because of a perceived lack of mule deer (by far the most common response), crowding, a dislike of the regulations or management, or a lack of harvest success.

- 
- The survey specifically asked about crowding (*after* the open-ended questions above about reasoning for giving particular ratings to the quality of mule deer hunting, so as to not bias answers on those open-ended questions). The most common perception among mule deer hunters in Wyoming is that the number of mule deer hunters in the field has increased (41%) over the past 5 years, far exceeding the percentage who think the number has decreased (13%). (The remainder answer neutrally.).
  
  - In a similar vein to that which was explored in the question above, mule deer hunters were asked if the number of other hunters they saw was more than they expected, about what they expected, or fewer than they expected. Most commonly, they said it was about what they expected (42%); otherwise, about twice as many said it was more (38%) than they expected than said it was fewer (16%) than they expected.
  
  - Nearly half of Wyoming mule deer hunters (47%) say that the quality of their deer hunting over the past 5 years has gotten worse. Otherwise, 44% give a neutral answer (the same, 34%; don't know, 10%), and only 9% say it has improved.
  
  - Mule deer hunters were read a list of six items that they might look for in a quality mule deer hunt; they were asked to select all that they look for. The top answers were aesthetic and social (outdoor experience, 47%; opportunity to spend time with family/friends, 43%) rather than utilitarian (harvest an animal, 38%).
  
  - Finally in this section, mule deer hunters were asked about the size of antlers as that relates to the quality of mule deer hunting. They were asked to name the minimum number of points necessary for a buck to be considered a quality buck, then they were asked about the antler spread in inches.
    - At least 4 points is the most common answer regarding the threshold for a buck to be considered a quality buck.
    - A spread of 24 inches is the median spread size for a buck to be considered a quality buck.

## **MOTIVATIONS AND CONSTRAINTS TO PARTICIPATION IN MULE DEER HUNTING**

- Mule deer hunters were read a list of six possible reasons for hunting mule deer, and they were asked to select their primary reason. Most commonly, they said it was for the meat (33%), the most utilitarian of reasons.
- There is some latent demand for mule deer hunting, as evidenced by the 67% of mule deer hunters who say that there are reasons that they may not have hunted mule deer as much as they would have liked. In follow-up, the most common reason is social: not enough time because of family and/or work obligations (34% of those who received the follow-up question). However, lack of game (15%), not being able to draw the desired license (10%), and the cost of licenses (10%) are important reasons.
- The survey read four statements to mule deer hunters and asked if they agreed or disagreed with each. Three statements were positive about mule deer hunting in Wyoming (Q59: There was enough access to hunt mule deer on private land. Q60: Public lands were marked well during mule deer hunting season. Q61: The number of bucks in the area was adequate in the past 5 years.), and one was negative (Q58: There were too many hunters in the area.). Of the four topics (amount of hunter crowding, access, marking of public lands, and amount of game), the amount of game was of the most concern: 49% disagreed that the number of bucks was adequate in the area in which they most often hunted mule deer in the past 5 years.
  - Regarding the negative statement, opinion was split: 43% of mule deer hunters agreed that there were too many hunters in the area in which they most often hunted, while 51% disagreed.
  - Slightly more agreed than disagreed (46% to 32%) that there was enough access to hunt mule deer on private land in the area in which they most often hunted mule deer.
  - Likewise, slightly more agreed than disagreed (58% to 30%) that public lands were marked well during mule deer hunting season.
  - Finally, opinion was almost exactly evenly split on whether they agreed (47%) or disagreed (49%) that the number of bucks in the area was adequate in the past 5 years in the hunt area in which they most often hunted.

## **RATINGS OF MULE DEER MANAGEMENT**

- A majority of mule deer hunters (56%) rate the job that the WGFD is doing at managing mule deer as excellent or good; on the other end, 14% rate the job performance as poor.

## **PERCEIVED FACTORS IN SIZE OF MULE DEER POPULATION**

- Mule deer hunters were asked to say the factors that they think control the ability of the mule deer herds to increase or decrease annually; they could say as many factors as came to mind. The most common responses were weather (44%), predators (23%), overhunting (21%), and poor habitat (18%).

## **ANTLERLESS HUNTING**

- Regarding whether they had ever hunted antlerless mule deer in Wyoming, 39% of mule deer hunters had done so, while 60% had not.
- Regardless of whether they had ever hunted antlerless mule deer, a large majority of mule deer hunters agree (85%) that antlerless mule deer harvest is an acceptable mule deer management tool.
- Finally in this section, an overwhelming majority of mule deer hunters (note that only adult hunters were interviewed for this survey) say that it is acceptable (80%) for youth hunters to be allowed to harvest antlerless deer during a season that allows adults to harvest antlered deer only; meanwhile, 13% say this is unacceptable.

## **OPINIONS ON SEASON STRUCTURE**

- A series of questions explored opinions regarding general seasons versus limited quota seasons. The most direct (but not the first in the survey order) simply asked respondents which type of season they preferred (general versus limited quota), and opinion is split: 45% prefer general seasons and 40% prefer limited quota seasons (the remainder have no preference). Note that prior to being asked, respondents were told the following information about general seasons and limited quota seasons: *General seasons allow you the opportunity to hunt every year in multiple areas that have general hunting seasons. You may see more*

hunters and may have a reduced chance of harvesting a deer. Limited quota seasons mean that you have to apply for the draw to hunt in a single area and may not get a license every year and cannot hunt multiple areas in a given year. You also may see fewer hunters and may have a greater chance of harvesting a deer.

- Follow-up questions asked about reasons for preferring general seasons or for preferring limited quota seasons.
  - The most common reasons for preferring general seasons are the ability to hunt in more areas (33% of those who prefer general seasons), that one can hunt every year (28%), and the greater flexibility that general seasons provide regarding timing of seasons and planning for hunting trips and so forth (11%).
  - The most common reasons for preferring limited quota seasons are that they are perceived as being less crowded (38% of those who prefer limited quota seasons), that there are better quality deer (26%), that it is a better way of managing mule deer (24%), and that there is a better chance of harvest (15%).
- Other questions that pertained to season structure were asked in this section, as well.
  - *Hunting every year*—A majority of mule deer hunters (55%) say that it is *very* important to them, personally, to be able to hunt mule deer in Wyoming every year, and another 31% say it is moderately important (a sum of 86% saying important).
  - *Limiting hunters in the field*—Despite the finding above that a majority think it is important to hunt every year, a large majority of mule deer hunters (65%) support limiting the number of hunters in the field, even if it would make it less likely that they would draw a license; meanwhile, 26% oppose.
  - *Hunting in only one area*—Opinion is split on the acceptability of hunting in only one area versus multiple areas in a given year: 53% say it is acceptable to be able to hunt in only one area, while 41% say it is unacceptable to be limited to one area.
  - *Limited quota in all areas*—While a majority of mule deer hunters overall (55%) would find it acceptable to have limited quota seasons in all hunt areas in Wyoming, a substantial percentage (36%) would find it unacceptable.

- *Requiring selection of one region to hunt*—A strong majority of mule deer hunters (64%) support a season structure wherein state residents obtain a general license but are required to select a region to hunt (similar to the way nonresidents do now); meanwhile, 27% oppose.
- *Delaying hunting until later in season*—An overwhelming majority of mule deer hunters overall (82%) said that they would consider delaying their hunt until later in the season if there were a chance of encountering fewer hunters after opening day; 14% would not consider it.
- *Paying more than the current license fee*—Opinion is split on willingness to pay more than the current fee for a mule deer license given that it would mean the possibility of encountering fewer hunters in the field. While a majority of mule deer hunters say that they are willing (60%), compared to 38% who are not at all willing, the “willing” group are not strongly opinionated: the most common answer is just *somewhat* willing (40%). Indeed, the percentage who would be *not at all* willing (38%) is double the percentage who describe themselves as *very* willing (19%).
- *Archery only/firearms only versus both*—The current regulations are preferred by a large majority over regulations in which hunters must choose to hunt either on an archery license or firearms license but not both: 71% prefer current regulations; 25% the “either but not both” structure.

## OPINIONS ON HABITAT MANAGEMENT

- The survey asked about perceptions of the trend in the quality of mule deer habitat in Wyoming over the past 5 years: most commonly, mule deer hunters say the quality has stayed the same (42%), but otherwise the percentage who say it has declined (34%) is more than three times the percentage who say it has improved (10%). Respondents were then asked about the 5-year trend in quality in the area in which they most often hunt: 55% say it has remained the same, with the percentage saying it has gotten worse (27%) exceeding the percentage who say it has improved (10%).
- A follow-up question asked those who said that habitat has declined to give their reasoning: the most common answer among mule deer hunters is drought (35% of those

who got the question), followed by urban development (13%), livestock grazing (11%), and energy development (10%).

- In two questions about the quality of habitat on mule deer ranges and the quantity of such habitat, overwhelming majorities say that habitat is *very* important in determining the survival of mule deer in Wyoming.
  - Importance of *quality* of habitat on mule deer survival: 89% say that this is *very* important, and another 9% say that it is *moderately* important (a sum of 98%).
  - Importance of the *amount* of habitat on mule deer survival: 86% say that this is *very* important, and another 11% say that it is *moderately* important (a sum of 96%).

### **ORV USE AND MULE DEER HUNTING**

- The current amount of off-road vehicle (ORV) use in the area in which the respondent most often hunted mule deer is found to be acceptable by a majority (62%), compared to 28% who find it unacceptable. However, opinion about the acceptability of ORV use on the *winter ranges* is more split: 36% find the amount acceptable, while 39% find it unacceptable.
- When asked about support or opposition to efforts to regulate the use of ORVs during hunting seasons in Wyoming, a large majority of mule deer hunters support (61%) doing so, about double the percentage who oppose (31%).

### **PUBLIC INPUT TO DEER MANAGEMENT**

- Just under a quarter of mule deer hunters (24%) have attended a public meeting about hunting or mule deer issues in Wyoming in the past 5 years, while 10% have attended a meeting in the past 12 months.
- Follow-up questions to the one above asked about reasons for *not* attending a meeting and things that would motivate those non-attendees to attend. The biggest constraints to attending are travel distance (42% of those who have not attended a meeting), not being aware of meetings (23%), and lack of time to attend (20%). The biggest encouragements would be more information about when and where the meetings are being held (22%), closer

meetings/more convenient locations (18%), more free time (11%), and having an issue in which they are interested (10%).

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## **INTRODUCTION AND METHODOLOGY**

This study was conducted for the Wyoming Game and Fish Department (WGFD) to determine mule deer hunters' opinions on the quality of mule deer hunting in Wyoming and their opinions on season structure and hunting regulations. The study entailed a telephone survey of resident and nonresident mule deer hunters. Specific aspects of the research methodology are discussed below.

### **USE OF TELEPHONES FOR THE SURVEY**

For the survey, telephones were selected as the preferred sampling medium because of the almost universal ownership of telephones among the sample of hunters (both landlines and cell phones were called). Additionally, telephone surveys, relative to mail or Internet surveys, allow for more scientific sampling and data collection, provide higher quality data, obtain higher response rates, are more timely, and are more cost-effective. Telephone surveys also have fewer negative effects on the environment than do mail surveys because of reduced use of paper and reduced energy consumption for delivering and returning the questionnaires.

### **QUESTIONNAIRE DESIGN**

The telephone survey questionnaire was developed cooperatively by the WGFD and Responsive Management, based on the research team's familiarity with hunting and wildlife resources. Responsive Management conducted pre-tests of the questionnaire to ensure proper wording, flow, and logic in the survey. The questionnaire is shown in Appendix A.

### **SURVEY SAMPLE**

The sample of resident and nonresident Wyoming mule deer hunters (license holders from any of the past 3 years who had hunted mule deer within the past 5 years) was obtained from the WGFD. The sample was representative of all mule deer hunters statewide who had obtained a license within the past 3 years, properly proportioned between residents and nonresidents. A screener question filtered out those hunting license holders who had not hunted mule deer within the past 5 years. The sample also did not include children (17 years old or younger) who hunted mule deer.

## **TELEPHONE INTERVIEWING FACILITIES**

A central polling site at the Responsive Management office allowed for rigorous quality control over the interviews and data collection. Responsive Management maintains its own in-house telephone interviewing facilities. These facilities are staffed by interviewers with experience conducting computer-assisted telephone interviews on the subjects of outdoor recreation and natural resources.

To ensure the integrity of the telephone survey data, Responsive Management has interviewers who have been trained according to the standards established by the Council of American Survey Research Organizations. Methods of instruction included lecture and role-playing. The Survey Center Managers and other professional staff conducted a project briefing with the interviewers prior to the administration of this survey. Interviewers were instructed on type of study, study goals and objectives, handling of survey questions, interview length, termination points and qualifiers for participation, interviewer instructions within the survey questionnaire, reading of the survey questions, skip patterns, and probing and clarifying techniques necessary for specific questions on the survey questionnaire.

## **INTERVIEWING DATES AND TIMES**

Telephone surveying times are Monday through Friday from 9:00 a.m. to 9:00 p.m., Saturday from noon to 5:00 p.m., and Sunday from 5:00 p.m. to 9:00 p.m., local time. A five-callback design was used to maintain the representativeness of the sample, to avoid bias toward people easy to reach by telephone, and to provide an equal opportunity for all to participate. When a respondent could not be reached on the first call, subsequent calls were placed on different days of the week and at different times of the day. The survey was conducted in July and August 2012.

## **TELEPHONE SURVEY DATA COLLECTION AND QUALITY CONTROL**

The software used for data collection was Questionnaire Programming Language (QPL). The survey data were entered into the computer as each interview was being conducted, eliminating manual data entry after the completion of the survey and the concomitant data entry errors that may occur with manual data entry. The survey questionnaire was programmed so that QPL

branched, coded, and substituted phrases in the survey based on previous responses to ensure the integrity and consistency of the data collection.

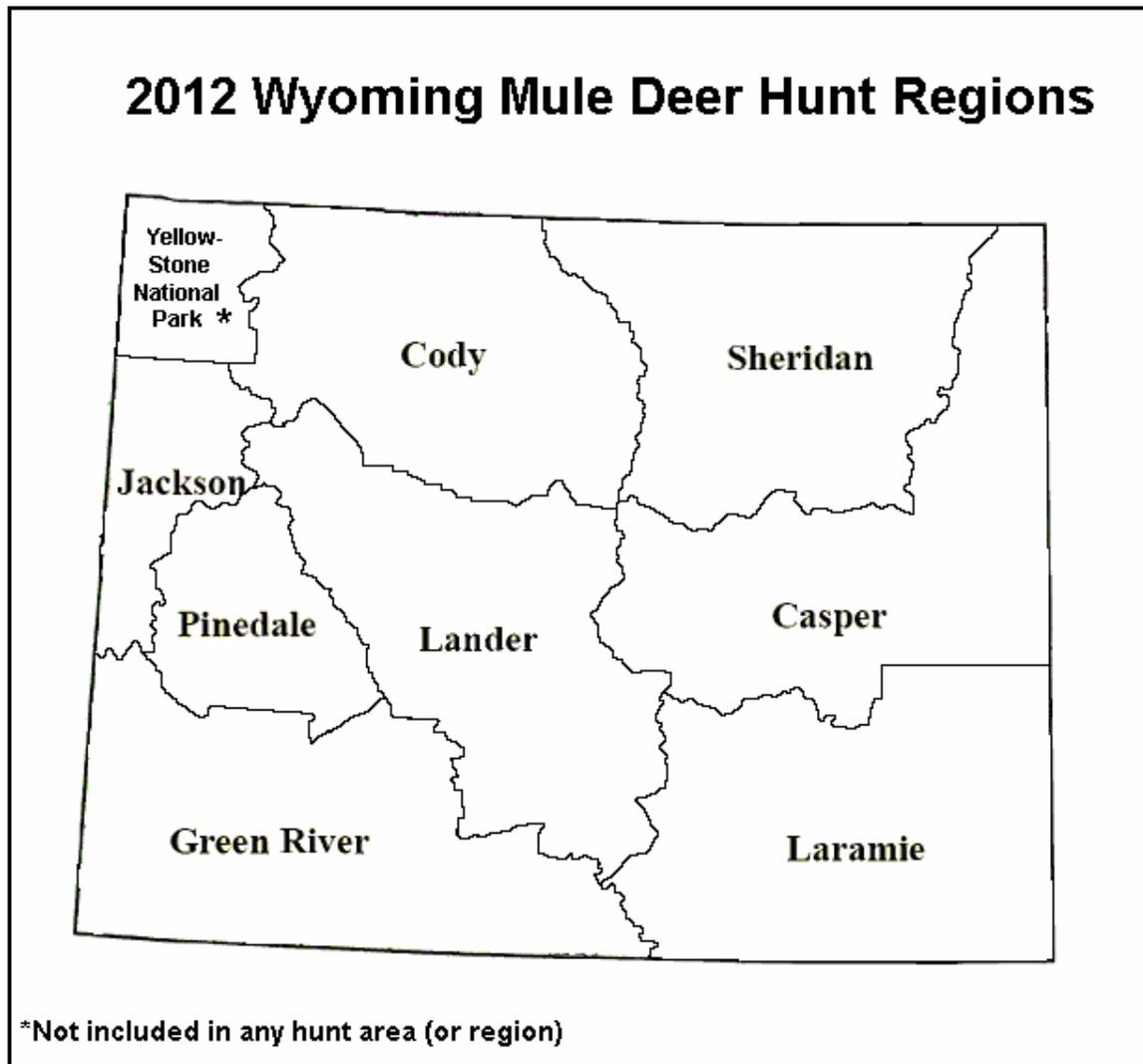
The Survey Center Managers and statisticians monitored the data collection, including monitoring of the actual telephone interviews without the interviewers' knowledge, to evaluate the performance of each interviewer and ensure the integrity of the data. The survey questionnaire itself contains error checkers and computation statements to ensure quality and consistent data. After the surveys were obtained by the interviewers, the Survey Center Managers and/or statisticians checked each completed survey to ensure clarity and completeness. Responsive Management obtained a total of 2,448 completed interviews.

## **DATA ANALYSIS**

The analysis of data was performed using Statistical Package for the Social Sciences as well as proprietary software developed by Responsive Management.

On questions that asked respondents to provide a number (e.g., number of hunting days), the graph shows ranges of numbers rather than the precise numbers. Nonetheless, in the survey each respondent provided a precise number, and the dataset includes this precise number, even if the graph only shows ranges of numbers. Note that the calculation of means and medians used the precise numbers that the respondents provided.

Crosstabulations were run on many questions, including crosstabulations by residents versus nonresidents. Additionally, a regional crosstabulation was run; respondents were categorized into hunt regions based on the hunt area in which they hunted the most (not by residency). The hunt regions are shown in the map on the following page; note that Yellowstone National Park in the northwest corner of the state is not part of any hunt area and, by extension, any region. The regional crosstabulations are too unwieldy to show in graphs; they are instead shown in tabulations.



### SAMPLING ERROR

Throughout this report, findings of the telephone survey are reported at a 95% confidence interval. For the entire sample of Wyoming mule deer hunters, the sampling error is at most plus or minus 1.94 percentage points (2.41 among residents only, 3.29 among nonresidents only). Sampling error was calculated using the formula described on the following page, with an overall sample size of 2,448 (1,591 residents, 857 nonresidents) and a population size of 63,815 (40,158 residents, 23,656 nonresidents) Wyoming mule deer hunters (population size is the average size of the mule deer hunter population in any given year over the 3-year period).

### Sampling Error Equation

$$B = \left( \sqrt{\frac{N_p(.25)}{N_s} - .25} \right) (1.96)$$

Where: B = maximum sampling error (as decimal)  
 $N_p$  = population size (i.e., total number who could be surveyed)  
 $N_s$  = sample size (i.e., total number of respondents surveyed)

Derived from formula: p. 206 in Dillman, D. A. 2000. *Mail and Internet Surveys*. John Wiley & Sons, NY.

**Note:** This is a simplified version of the formula that calculates the maximum sampling error using a 50:50 split (the most conservative calculation because a 50:50 split would give maximum variation).

### ADDITIONAL INFORMATION ABOUT THE PRESENTATION OF RESULTS IN THE REPORT

In examining the results, it is important to be aware that the questionnaire included several types of questions:

- Open-ended questions are those in which no answer set is read to the respondents; rather, they can respond with anything that comes to mind from the question.
- Closed-ended questions have an answer set from which to choose.
- Single or multiple response questions: Some questions allow only a single response, while other questions allow respondents to give more than one response or choose all that apply. Those that allow more than a single response are indicated on the graphs with the label, "Multiple Responses Allowed."
- Scaled questions: Many closed-ended questions (but not all) are in a scale, such as excellent-good-fair-poor.

Some graphs show an average, either the mean or median (or both). The mean is simply the sum of all numbers divided by the number of respondents. Because outliers (extremely high or low numbers relative to most of the other responses) may skew the mean, the median may be shown. The median is the number at which half the sample is above and the other half is below. In other words, a median of 30 days means that half the sample gave an answer of more than 30 days and the other half gave an answer of less than 30 days.

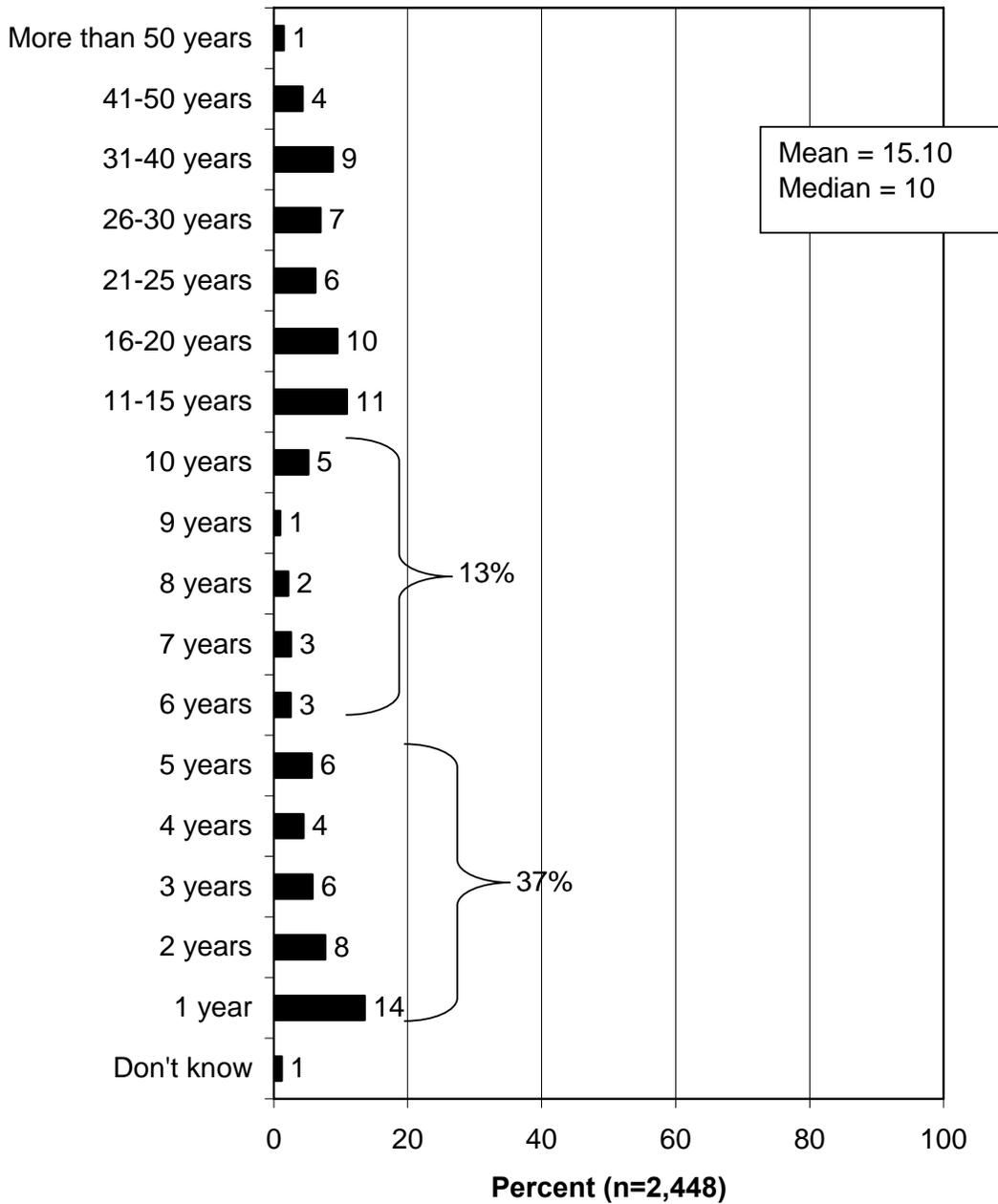
Most graphs show results rounded to the nearest integer; however, all data are stored in decimal format, and all calculations are performed on unrounded numbers. For this reason, some results may not sum to exactly 100% because of this rounding on the graphs. Additionally, rounding may cause apparent discrepancies of 1 percentage point between the graphs and the reported results of combined responses (e.g., when “strongly support” and “moderately support” are summed to determine the total percentage in support).

## **CHARACTERISTICS OF RESPONDENTS' MULE DEER HUNTING**

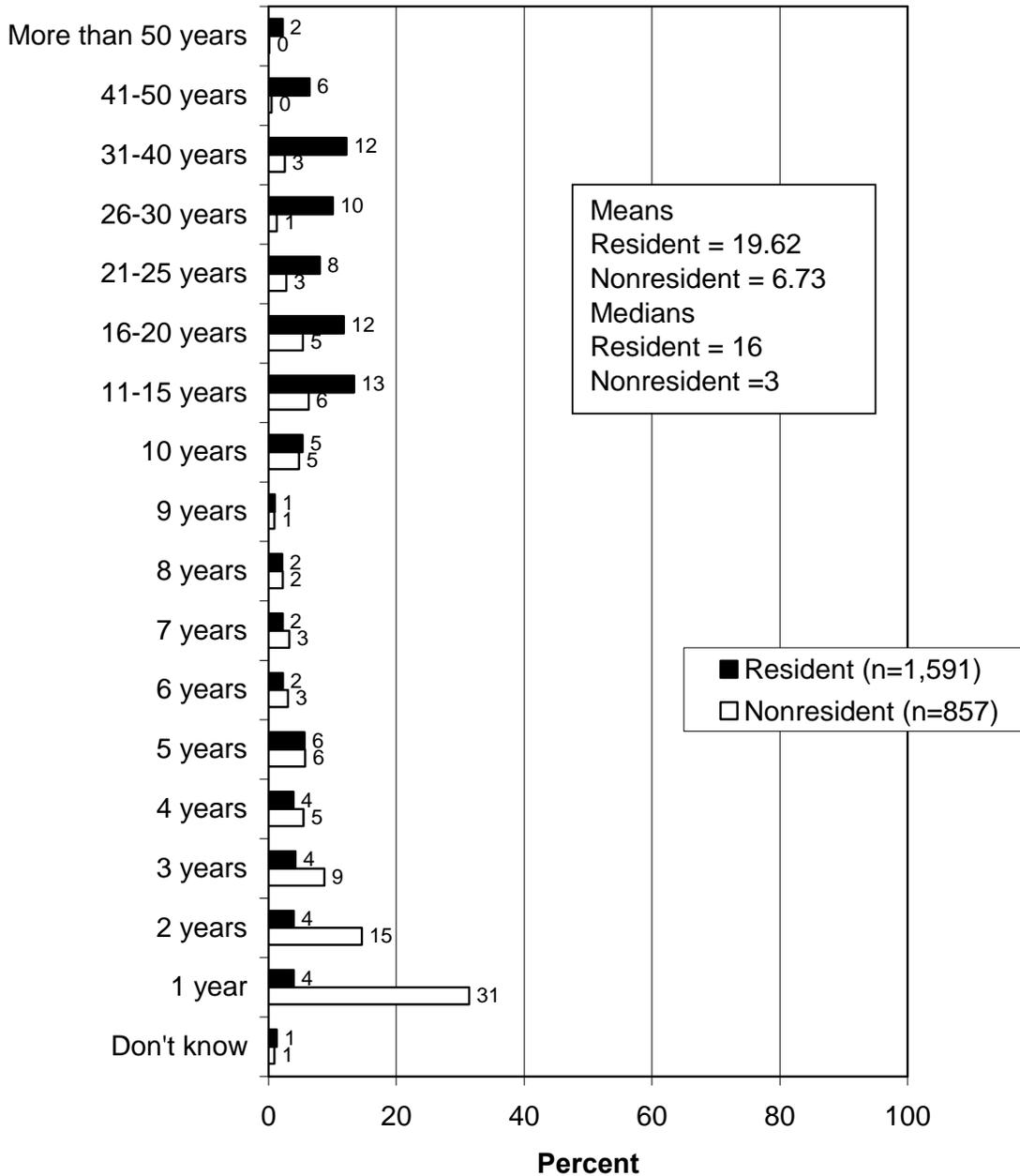
- More than a third of Wyoming hunters (37%) are relatively new to hunting mule deer, having hunted for mule deer in Wyoming for no more than 5 years. The median number of years hunting mule deer is 10 years.
  - Residents, in general, have been hunting mule deer in Wyoming considerably longer than have nonresidents: the mean number of years is 19.62 for residents, compared to 6.73 for nonresidents, a statistically significant difference ( $p \leq 0.001$ ).
  
- About two-fifths of Wyoming hunters are quite avid *mule deer* hunters: 39% have hunted mule deer all 5 of the past 5 years. Nearly half (49%) hunted them at least 4 of the past 5 years.
  - Residents are far more likely ( $p \leq 0.001$ ) to have hunted all 5 of the past 5 years (53% did so), compared to nonresidents (13%).
  
- About three quarters of mule deer hunters (76%) harvested a mule deer within the past 5 years, including 11% who have harvested all 5 of the past 5 years.
  - The percentages of mule deer hunters who harvested within the past 5 years is about the same for residents (75%) and nonresidents (77%); however, residents are more likely than are nonresidents to have harvested all 5 years or at least 4 of the past 5 years ( $p \leq 0.001$ ).
  
- A graph shows the days of mule deer hunting per hunter, with the most common number being 5 days. The mean is 7.38 days; the median is 5 days.
  - Residents have a slightly higher mean number of days (8.10 days) compared to nonresidents (6.05 days) ( $p \leq 0.001$ ).

- Firearms are overwhelmingly the preferred equipment for mule deer hunting: 92% use firearms at least half the time. Nonetheless, 8% use archery most of the time, and another 15% use archery about equally with firearms (a sum of 22% using archery at least half the time) (rounding on the graph causes the apparent discrepancy in the sum).
  - Residents are more likely than are nonresidents to have used archery equipment ( $p \leq 0.001$ ).
  
- The rate of use of an outfitter or guide for mule deer hunting among mule deer hunters overall is 9%.
  - Not surprisingly, nonresidents are more likely to have used a guide or outfitter (20% did so), compared to residents (only 3% did so) ( $p \leq 0.001$ ).

**Q10. How many years total have you been hunting mule deer in Wyoming?  
(Statewide: residents and nonresidents.)**

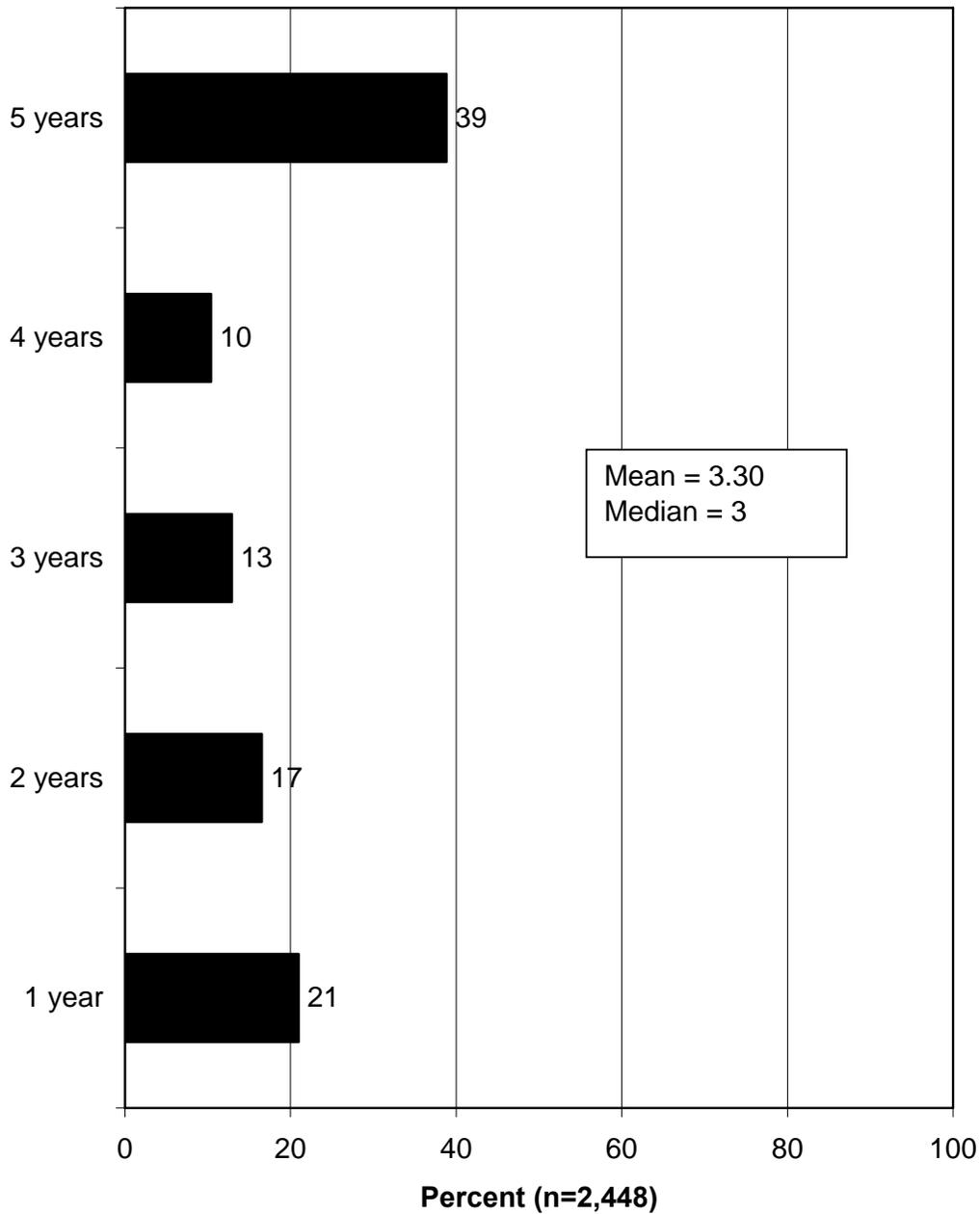


**Q10. How many years total have you been hunting mule deer in Wyoming?  
(Residents versus nonresidents.)**

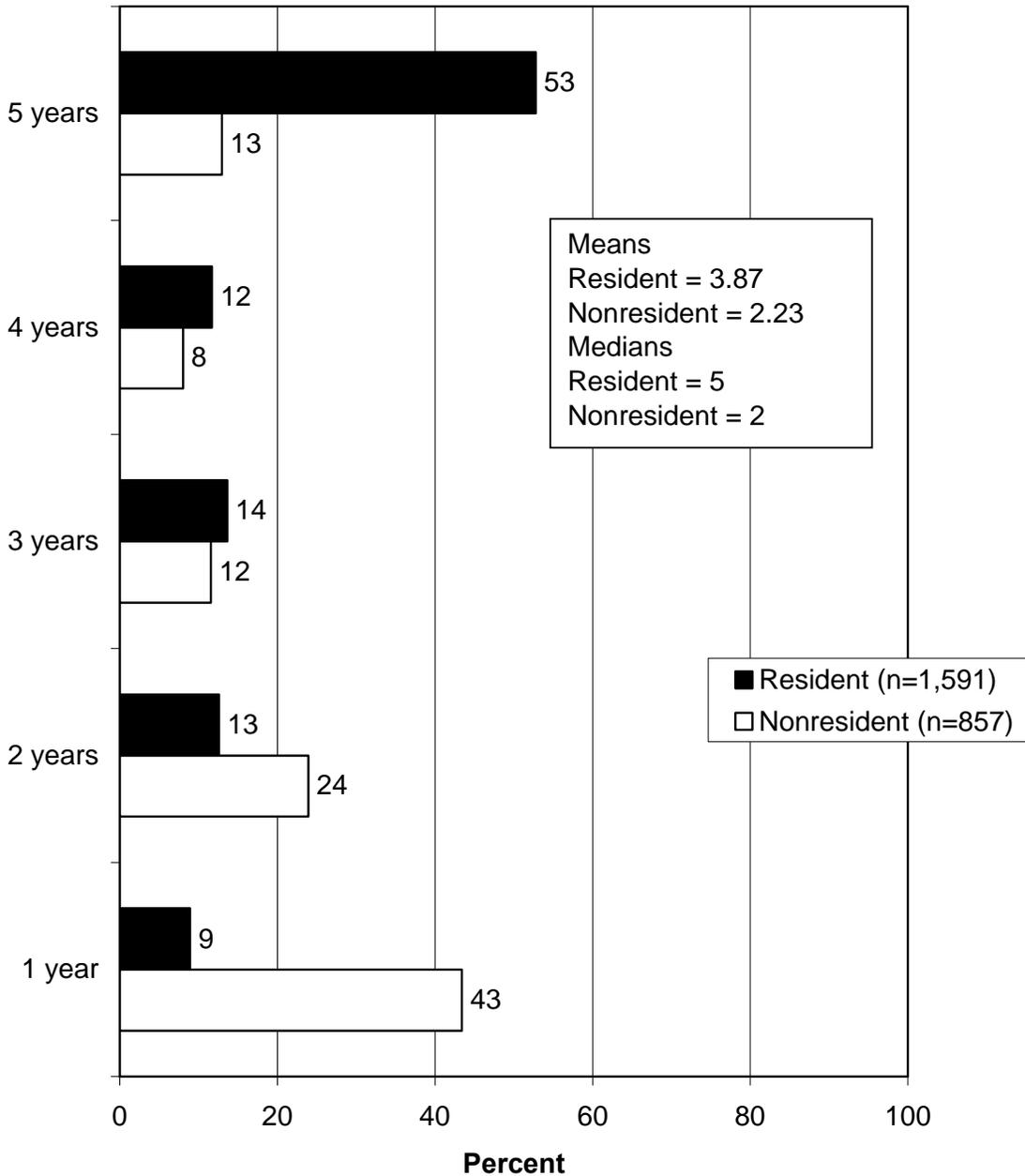


<b>Q10. How many years total have you been hunting mule deer in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
1 year	18	13	9	14	10	14	5	16	20	14
2 years	13	4	6	10	7	8	4	9	10	8
3 years	6	6	4	7	6	4	4	8	5	6
4 years	5	5	6	4	4	4	4	4	6	4
5 years	7	5	5	6	4	6	4	6	8	6
6 years	2	2	4	2	1	3	4	3	2	3
7 years	4	3	2	1	2	3	7	1	1	3
8 years	4	1	3	4	1	2	1	1	4	2
9 years	1	2	0	1	1	0	1	1	2	1
10 years	6	6	5	5	4	6	5	5	2	5
11-15 years	10	12	13	7	11	9	12	13	7	11
16-20 years	9	9	9	10	11	11	12	10	6	10
21-25 years	3	8	7	8	7	5	10	5	3	6
26-30 years	3	7	10	5	11	7	12	6	7	7
31-40 years	4	9	11	9	11	11	10	7	11	9
41-50 years	2	6	5	3	6	4	6	3	4	4
More than 50 years	0	2	1	1	2	2	0	1	3	1
Don't know	1	1	2	3	1	2	0	0	1	1
Mean	10.60	16.21	17.09	13.80	18.48	15.73	17.85	13.42	14.30	15.10
Median	6	12	15	9.5	15	10	15	10	6	10

**Q13. How many years, out of the last 5 years, did you hunt mule deer in Wyoming?  
(Statewide: residents and nonresidents.)**

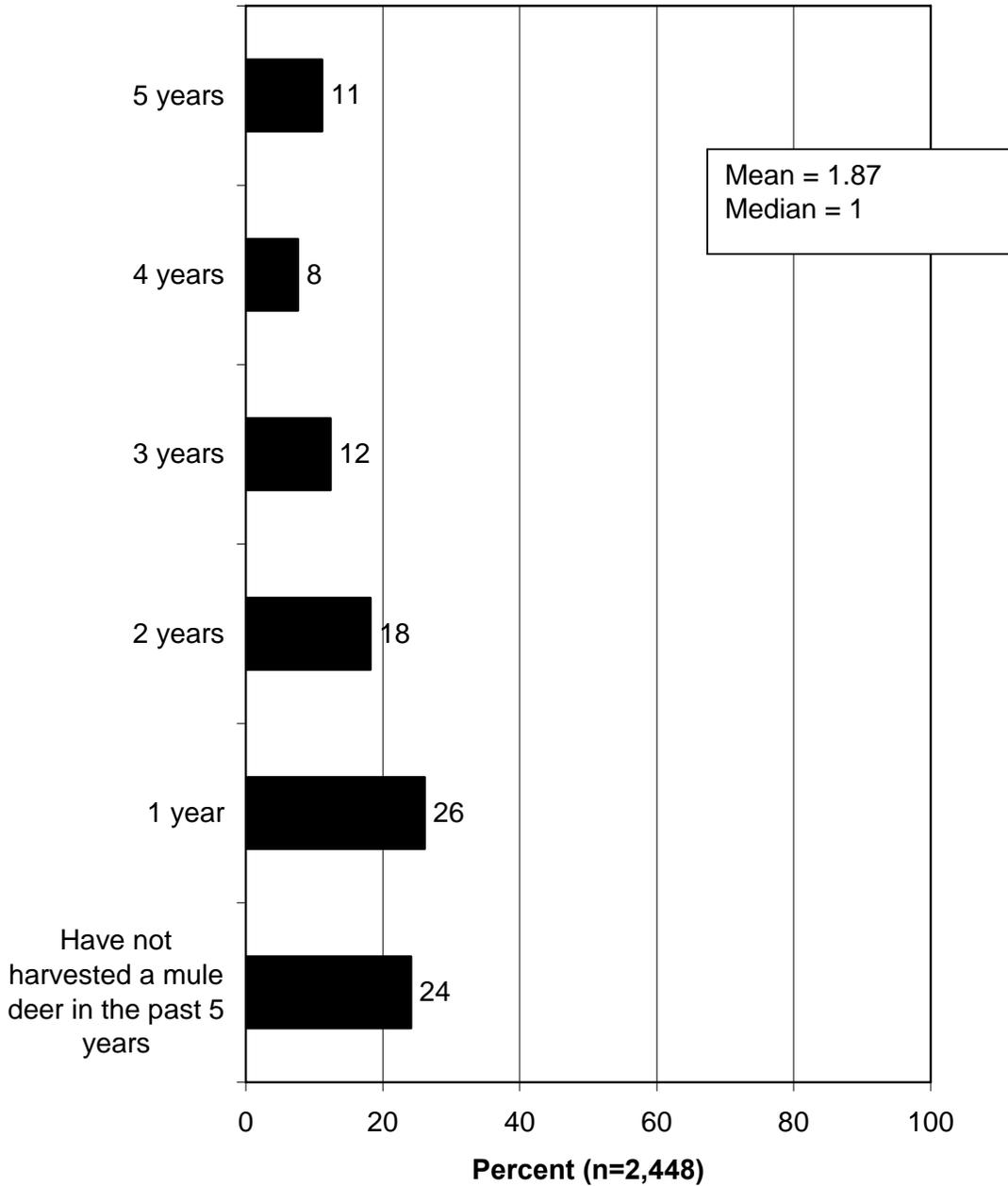


**Q13. How many years, out of the last 5 years, did you hunt mule deer in Wyoming?  
(Residents versus nonresidents.)**

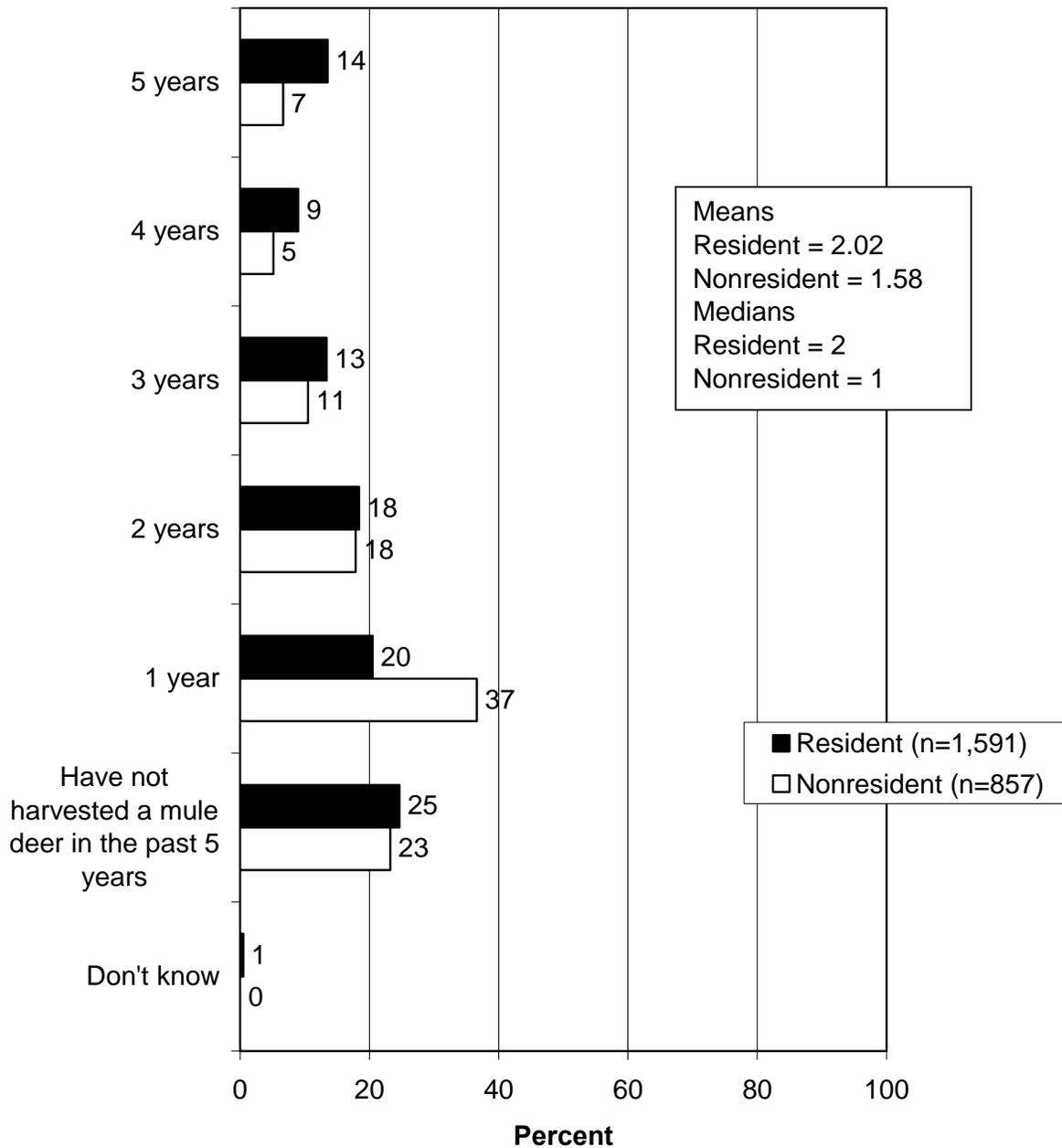


<b>Q13. How many years, out of the last 5 years, did you hunt mule deer in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
1 year	24	21	16	22	14	21	12	25	34	21
2 years	24	13	13	19	17	19	12	17	15	17
3 years	11	13	13	13	13	13	15	15	9	13
4 years	12	12	12	10	10	10	11	7	8	10
5 years	29	41	46	35	46	38	51	35	33	39
Don't know	0	0	0	1	0	0	0	0	0	0
Mean	2.98	3.41	3.61	3.18	3.56	3.25	3.79	3.09	2.90	3.30
Median	3	4	4	3	4	3	5	3	3	3

**Q17. How many of the past 5 years did you harvest a mule deer in Wyoming?  
(Statewide: residents and nonresidents.)**

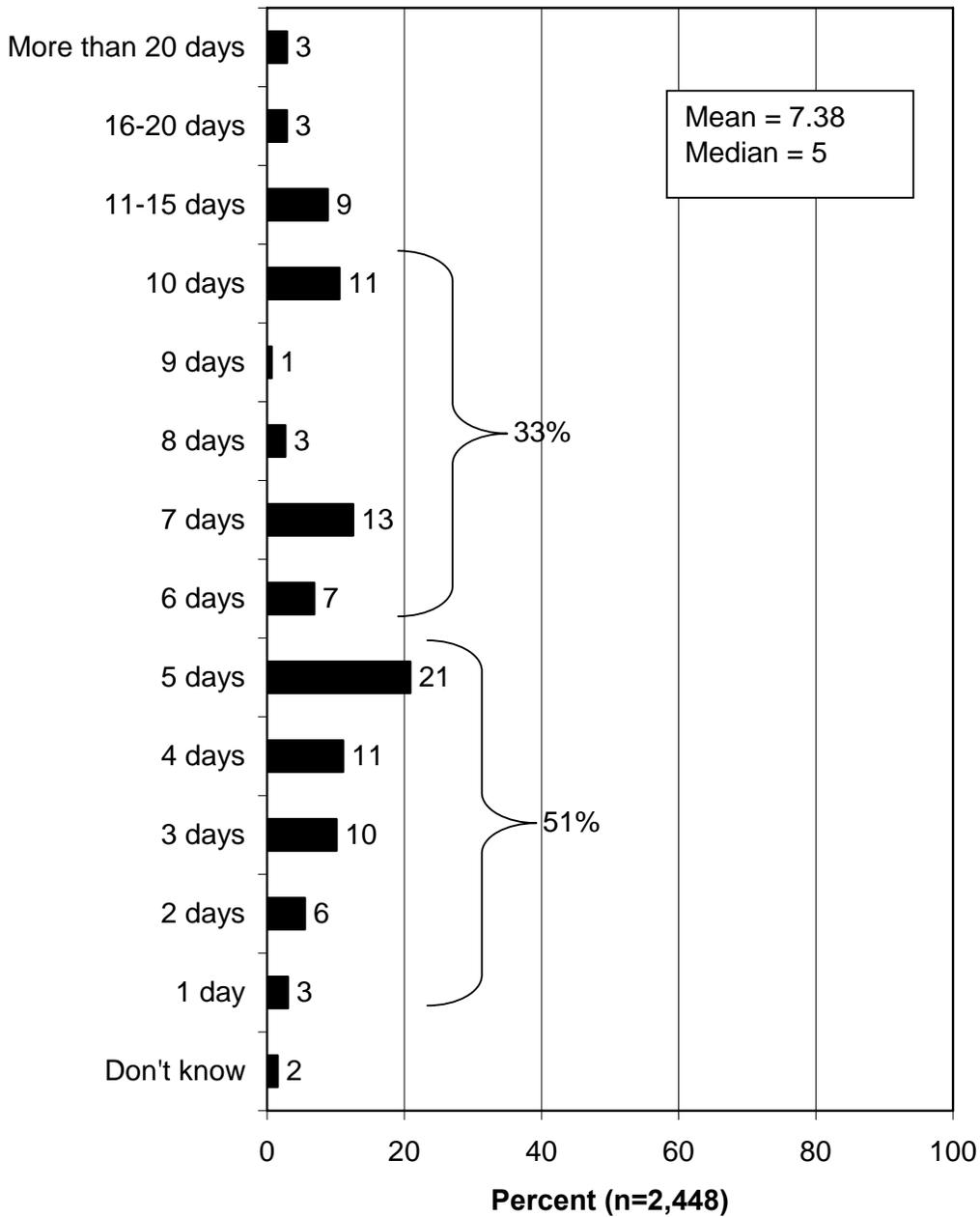


**Q17. How many of the past 5 years did you harvest a mule deer in Wyoming?  
(Residents versus nonresidents.)**

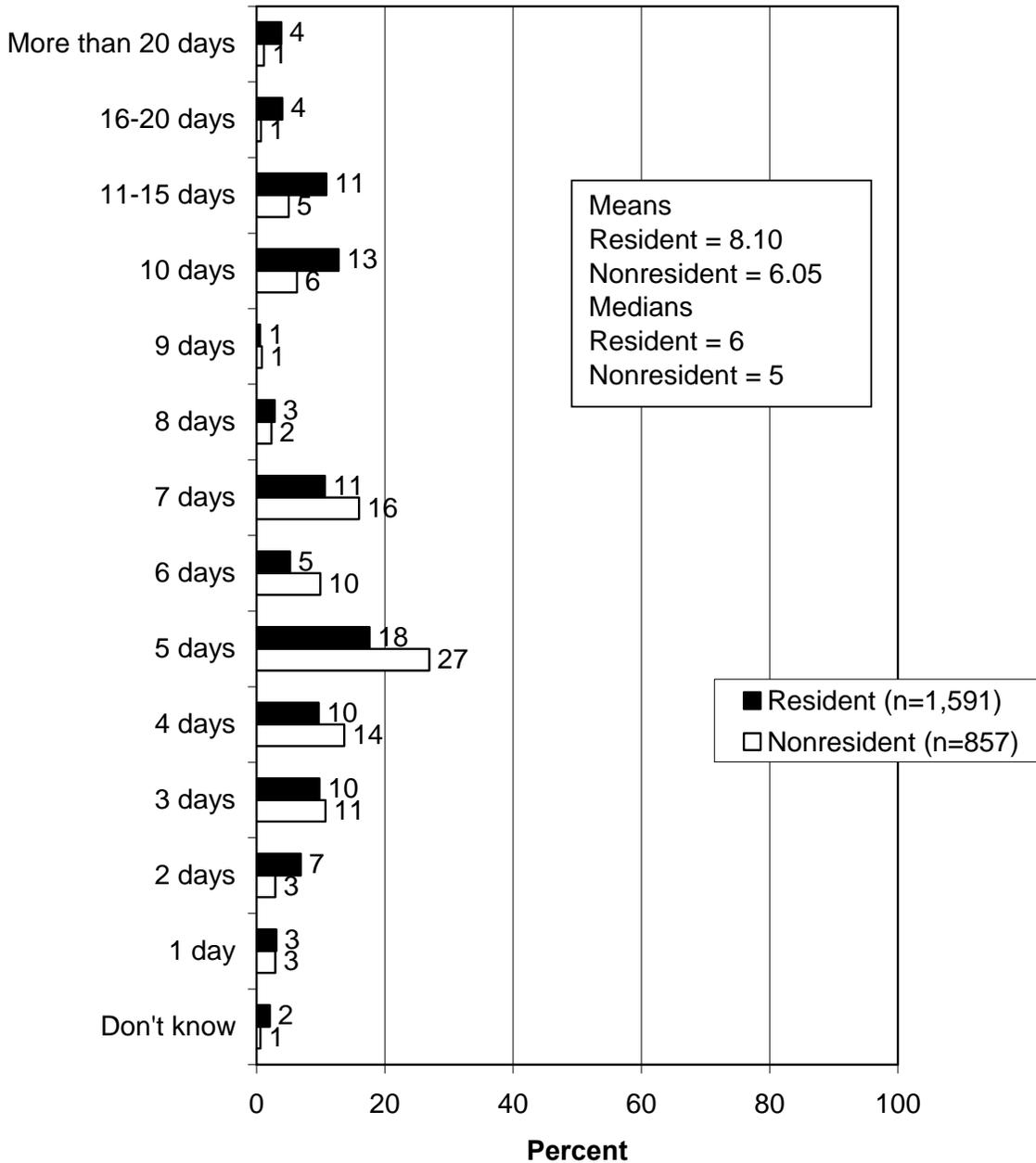


<b>Q17. How many of the past 5 years did you harvest a mule deer in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
1 year	29	26	25	25	25	26	21	27	29	26
2 years	20	15	17	19	18	21	23	18	18	18
3 years	13	13	16	10	12	11	13	12	10	12
4 years	7	11	9	5	9	5	10	7	3	8
5 years	9	18	9	5	15	8	10	11	8	11
Have not harvested a mule deer in the past 5 years	21	18	23	35	21	28	23	26	29	24
Don't know	0	0	0	1	0	0	0	0	1	0
Mean	1.83	2.26	1.91	1.38	2.07	1.63	1.95	1.78	1.53	1.87
Median	1	2	2	1	2	1	2	1	1	1

**Q14. In the past 5 years, about how many days per year did you typically hunt mule deer in Wyoming?  
(Statewide: residents and nonresidents.)**

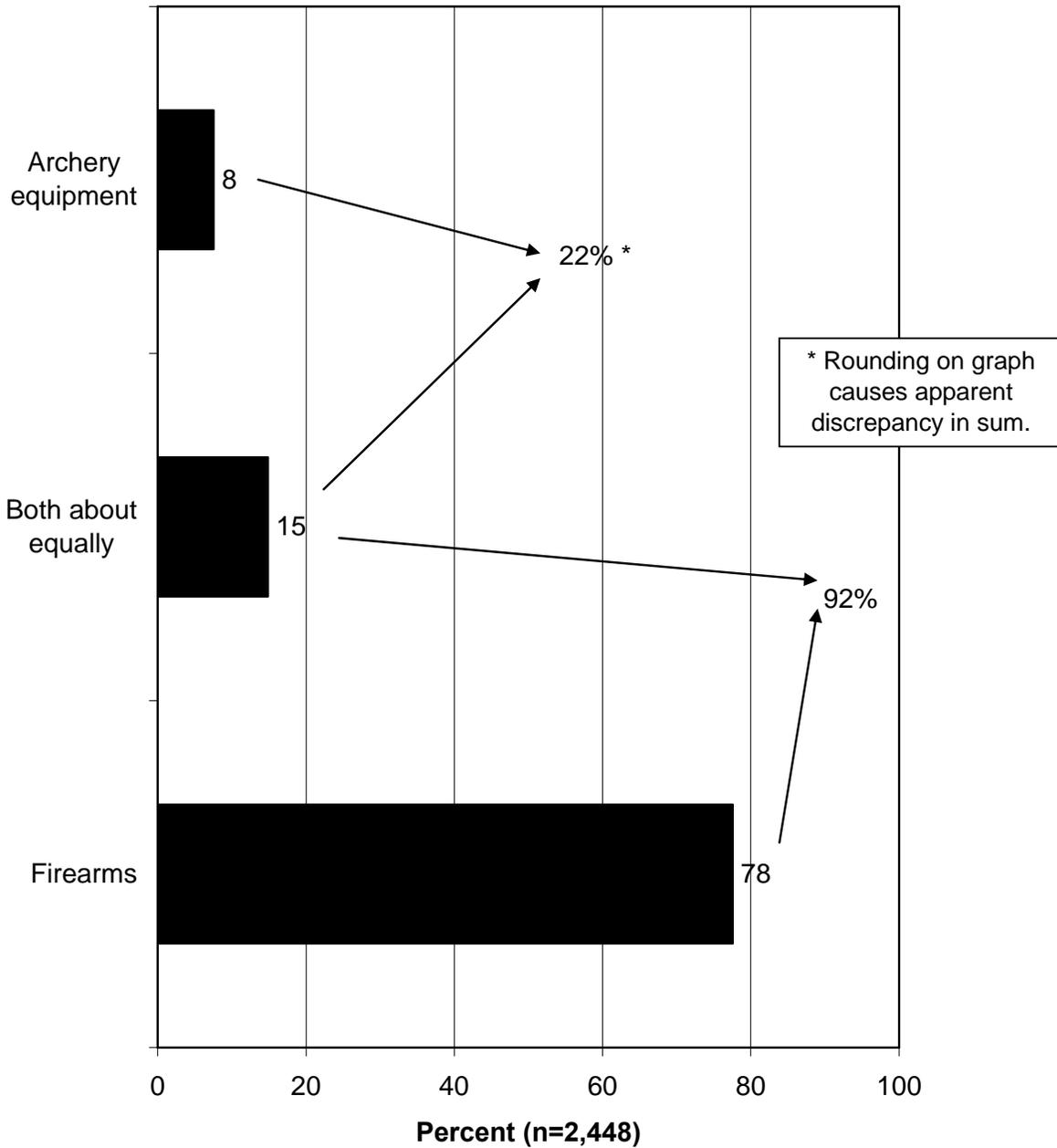


**Q14. In the past 5 years, about how many days per year did you typically hunt mule deer in Wyoming?  
(Residents versus nonresidents.)**

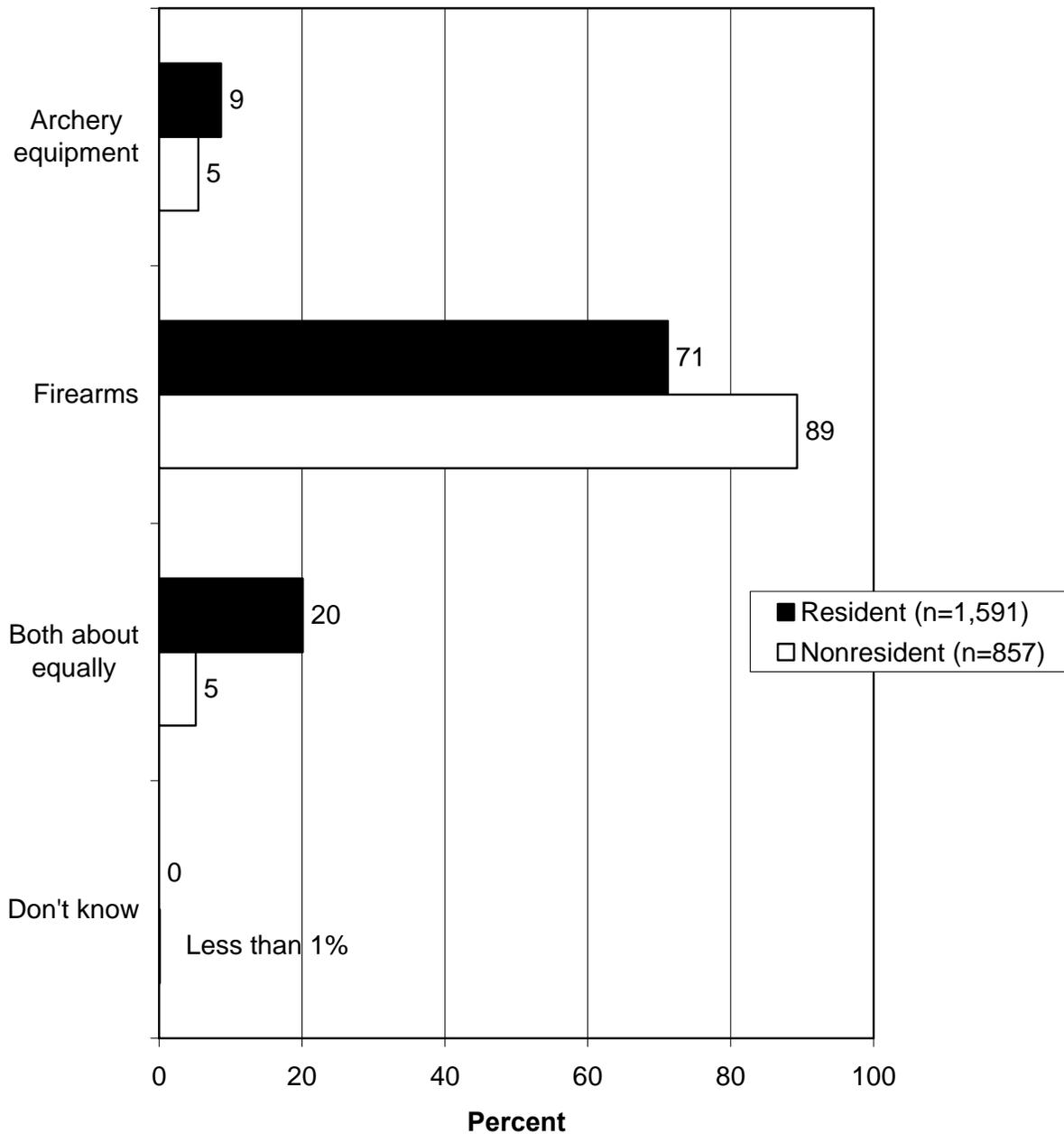


<b>Q14. In the past 5 years, about how many days per year did you typically hunt mule deer in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
1 day	3	4	2	1	6	3	1	3	2	3
2 days	6	6	5	2	6	6	4	6	6	6
3 days	11	9	10	5	9	12	6	12	9	10
4 days	17	11	12	7	13	10	12	8	10	11
5 days	23	17	21	20	21	20	15	25	27	21
6 days	7	7	6	7	2	9	4	7	11	7
7 days	10	14	12	14	11	11	17	13	13	13
8 days	1	2	3	5	2	3	4	2	3	3
9 days	1	1	1	1	0	0	4	0	0	1
10 days	7	13	12	17	9	9	19	7	6	11
11-15 days	9	9	9	10	8	10	10	8	8	9
16-20 days	2	1	2	5	5	2	4	4	3	3
More than 20 days	2	3	3	4	5	4	0	2	3	3
Don't know	1	3	1	2	2	2	1	1	1	2
Mean	6.57	7.21	7.54	8.77	7.71	7.50	7.68	7.24	6.95	7.38
Median	5	6	5	7	5	5	7	5	5	5

**Q83. Did you use archery equipment or firearms most often to hunt mule deer in Wyoming in the past 5 years, or did you use both about equally? (Statewide: residents and nonresidents.)**

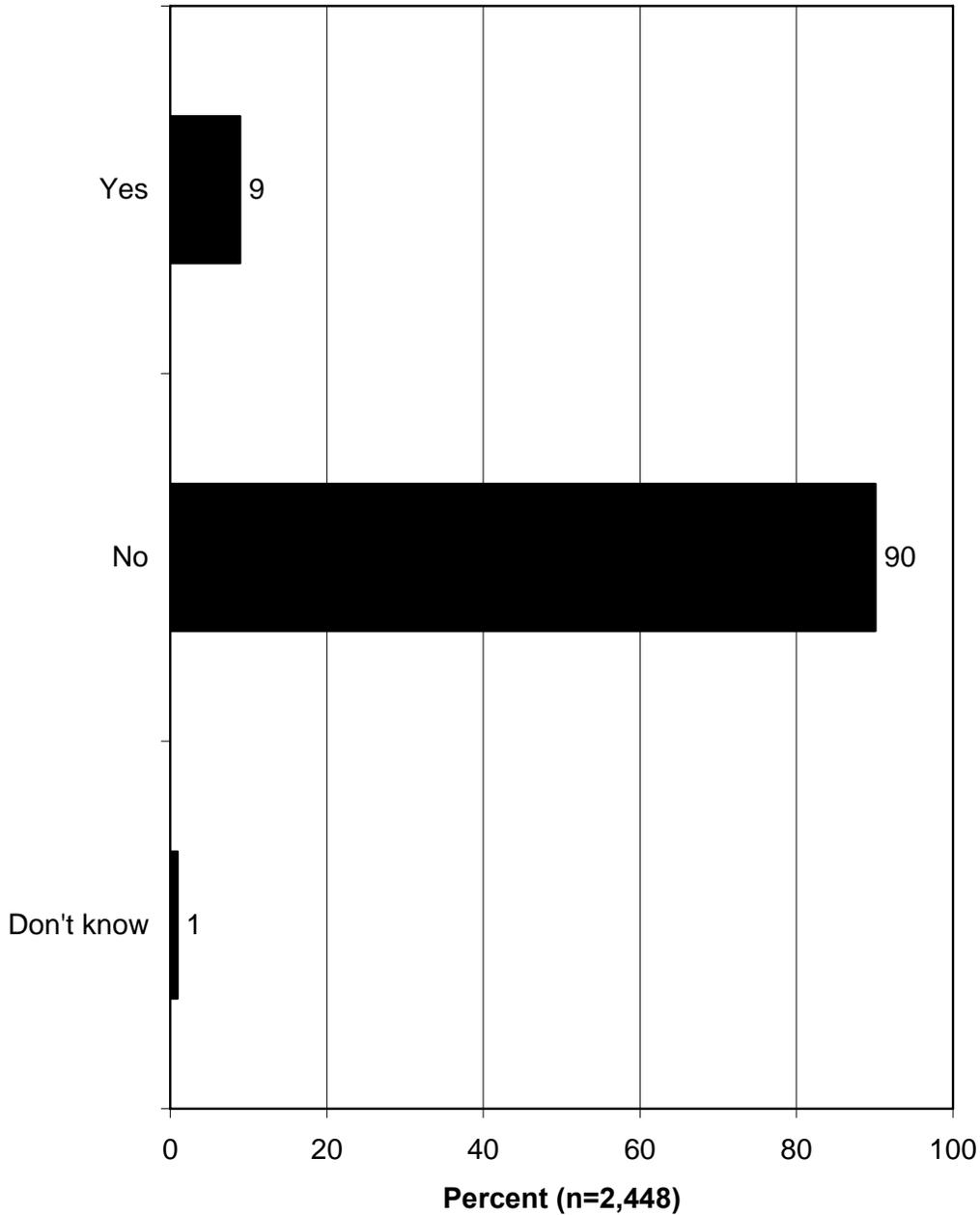


**Q83. Did you use archery equipment or firearms most often to hunt mule deer in Wyoming in the past 5 years, or did you use both about equally?  
(Residents versus nonresidents.)**

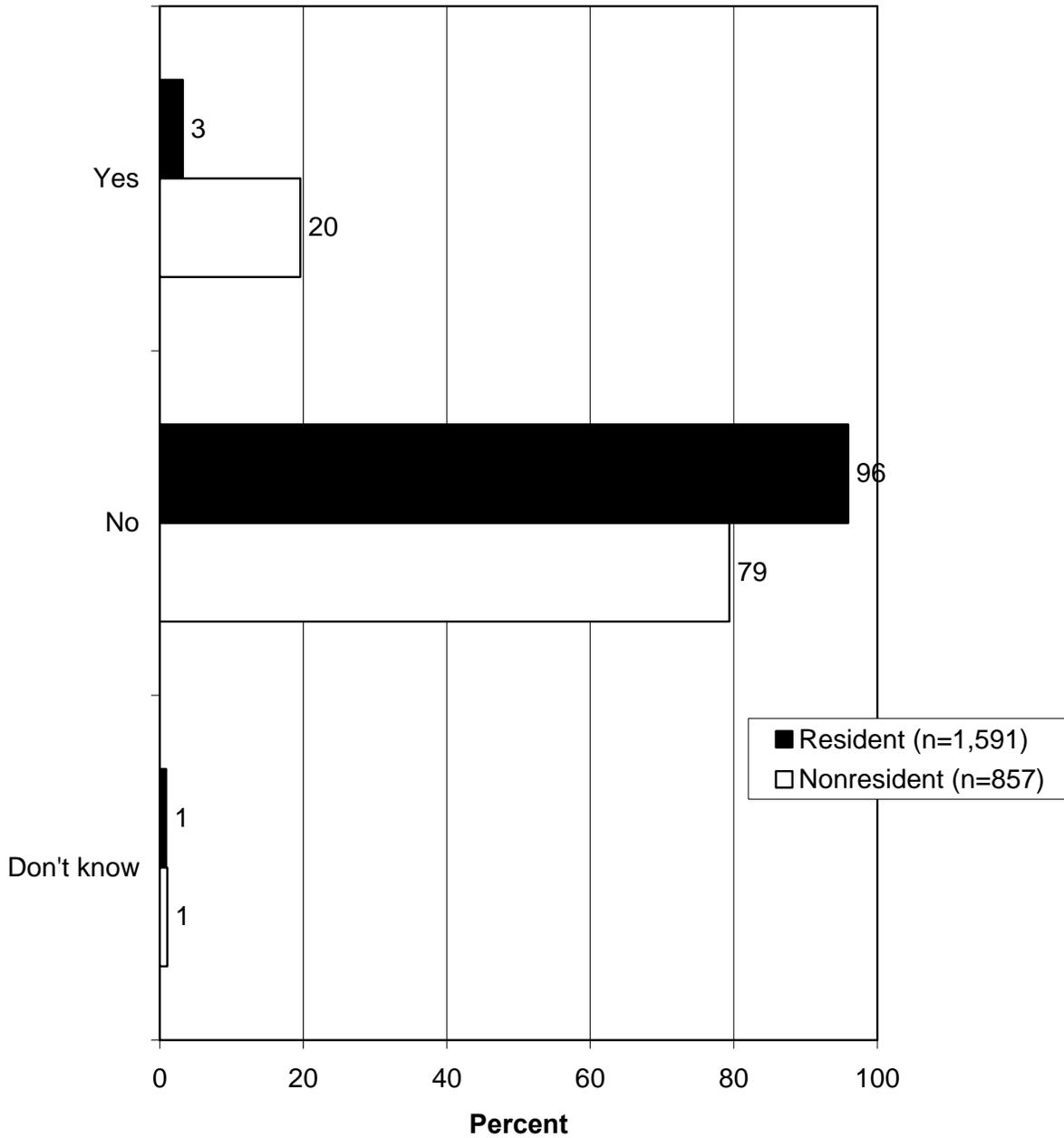




**Q113. Have you ever used outfitter or guide services to hunt mule deer in Wyoming?  
(Statewide: residents and nonresidents.)**



**Q113. Have you ever used outfitter or guide services to hunt mule deer in Wyoming?  
(Residents versus nonresidents.)**



<b>Q113. Have you ever used outfitter or guide services to hunt mule deer in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Yes	13	6	4	14	6	5	3	15	15	9
No	86	94	95	85	92	93	96	84	84	90
Don't know	1	0	1	1	1	2	1	1	1	1

## LOCATIONAL INFORMATION ABOUT MULE DEER HUNTING IN WYOMING

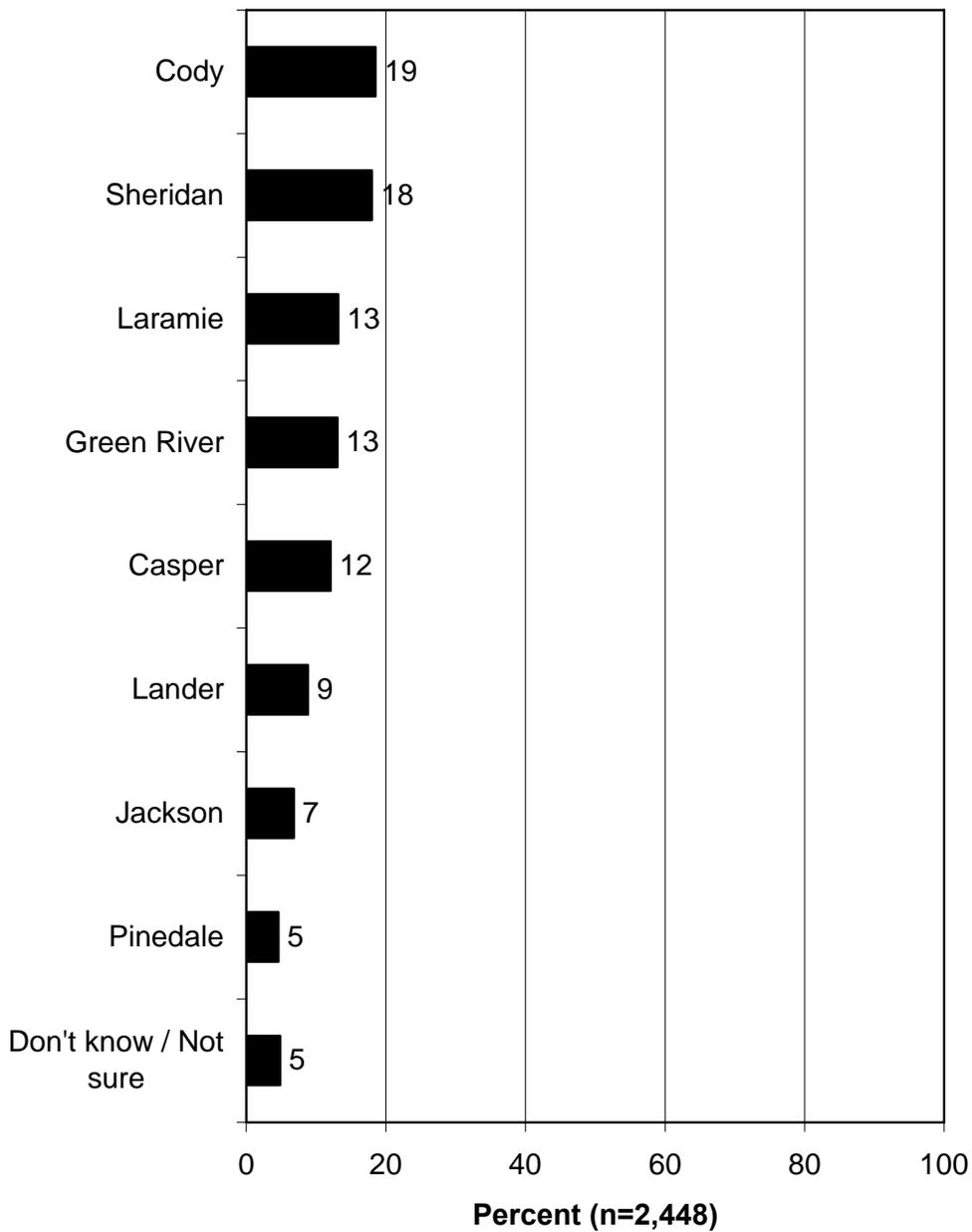
- The survey asked mule deer hunters to name the hunt area in which they most often hunted in the past 5 years. From the data, hunters were categorized into hunt regions. (The results are shown at the regional level rather than at the hunt area level for two primary reasons: many hunters did not know the actual hunt *area* but could give enough locational information to allow them to be categorized into one of the *regions*; additionally, the sample sizes for the hunt areas were too small—there are more than 100 hunt areas—for data to be shown at that level.) The top-ranked regions among hunters overall are Cody (19% hunted most often in this region), Sheridan (18%), Laramie (13%), Green River (13%), and Casper (12%).
  - The differences in selection of favored hunt regions between residents and nonresidents are statistically significant ( $p \leq 0.001$ ). Residents were more likely than nonresidents to select a hunt area in an interior region (Lander or Pinedale). Nonresidents, compared to residents, were more likely to have their favored hunt area in the Sheridan region or the Casper region.
  
- A quarter of Wyoming hunters (25%) are willing to travel anywhere in the state (i.e., more than 500 miles) to hunt mule deer. The mean distance mule deer hunters would travel is 454 miles; the median is 175 miles.
  - Perhaps stating the obvious: nonresidents are willing to travel farther than are residents, in general, to hunt in Wyoming, a statistically significant difference ( $p \leq 0.001$ ).
  
- The survey asked mule deer hunters to indicate the number of different hunt areas in which they typically hunt in one season: more than half (52%) typically hunt only a single area. Nonetheless, 21% typically hunt three or more areas.
  - Nonresidents are more likely, compared to residents, to hunt only one hunt area in a given season ( $p \leq 0.001$ ).
  
- Regarding the reasons mule deer hunters choose specific hunt areas in Wyoming, proximity is important: 32% of mule deer hunters choose a hunt area because it is close to home (the most common reason). Recommendations from family or friends (25%) is another important

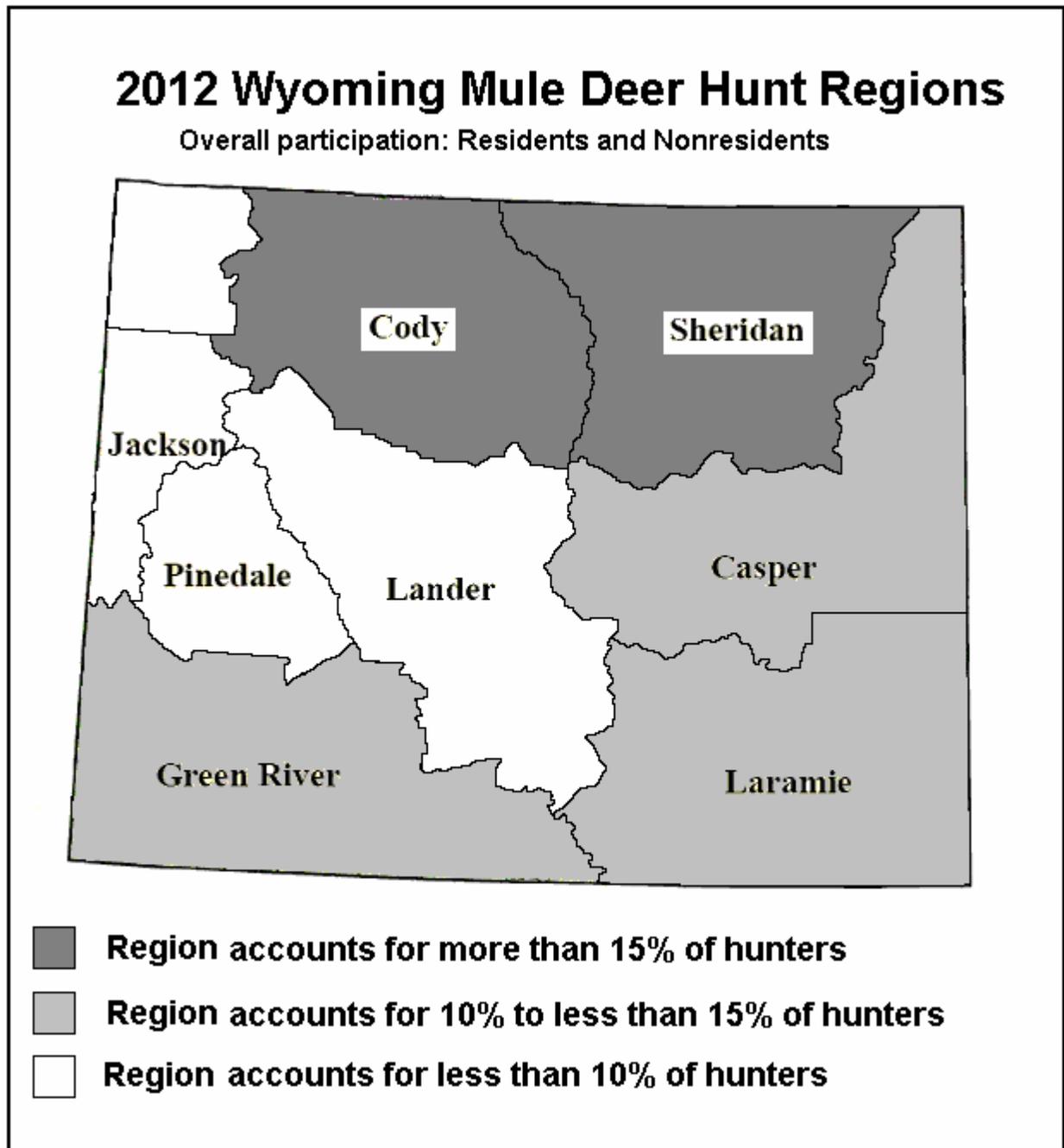
reason, followed by access (10%), a good chance of getting a deer (8%), and simple familiarity—hunted the same area before (8%). The graph shows the full listing of reasons.

- Residents are more likely than nonresidents to choose a hunt area because it is close to home ( $p \leq 0.001$ ); meanwhile, nonresidents are more likely to choose an area based on a recommendation from a family member or friend ( $p \leq 0.001$ ).

**Q25. Region most often hunted, based on data from the question: In what hunt area in Wyoming have you hunted mule deer the most often in the past 5 years?**

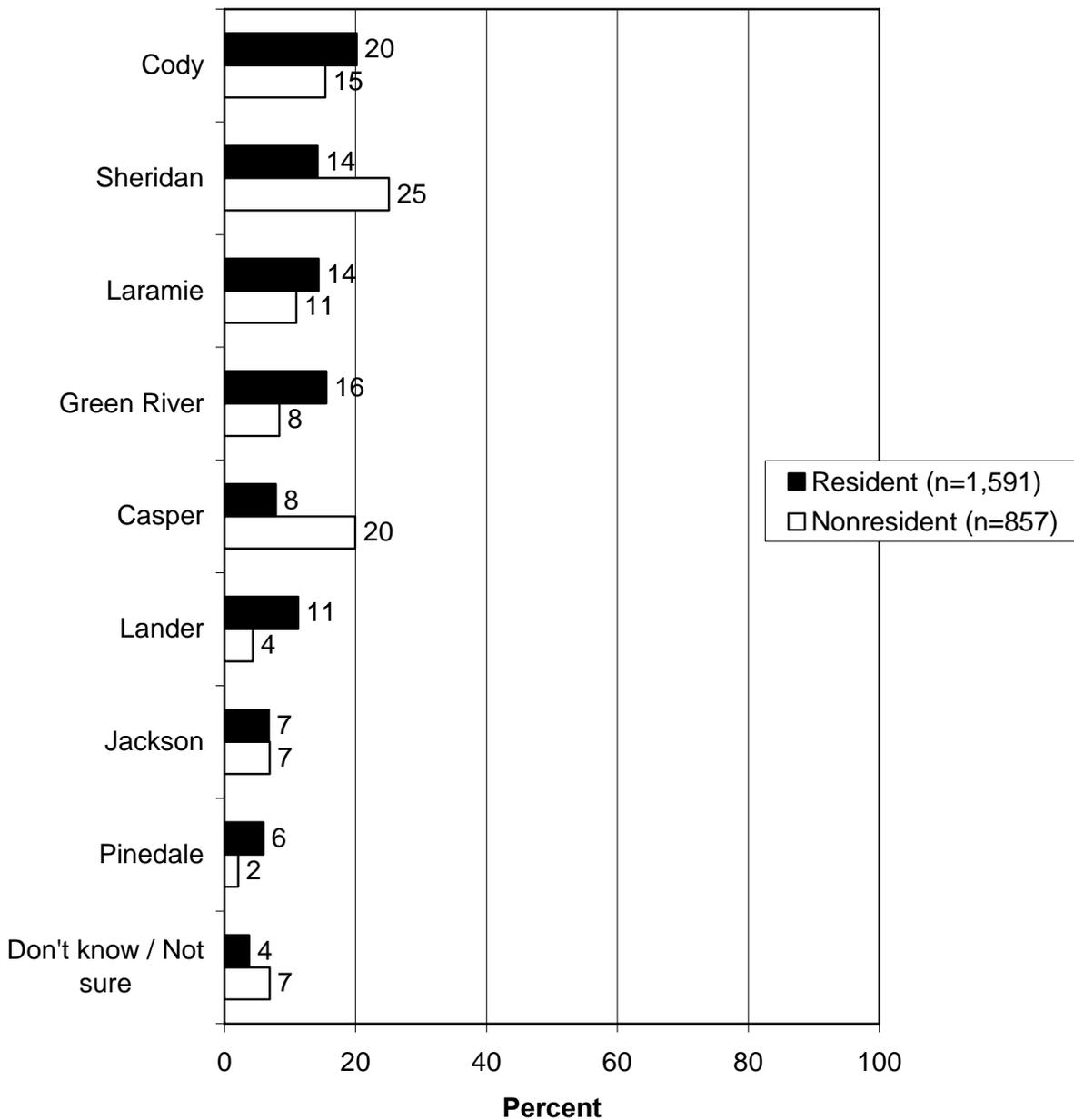
**(Statewide: residents and nonresidents.)**

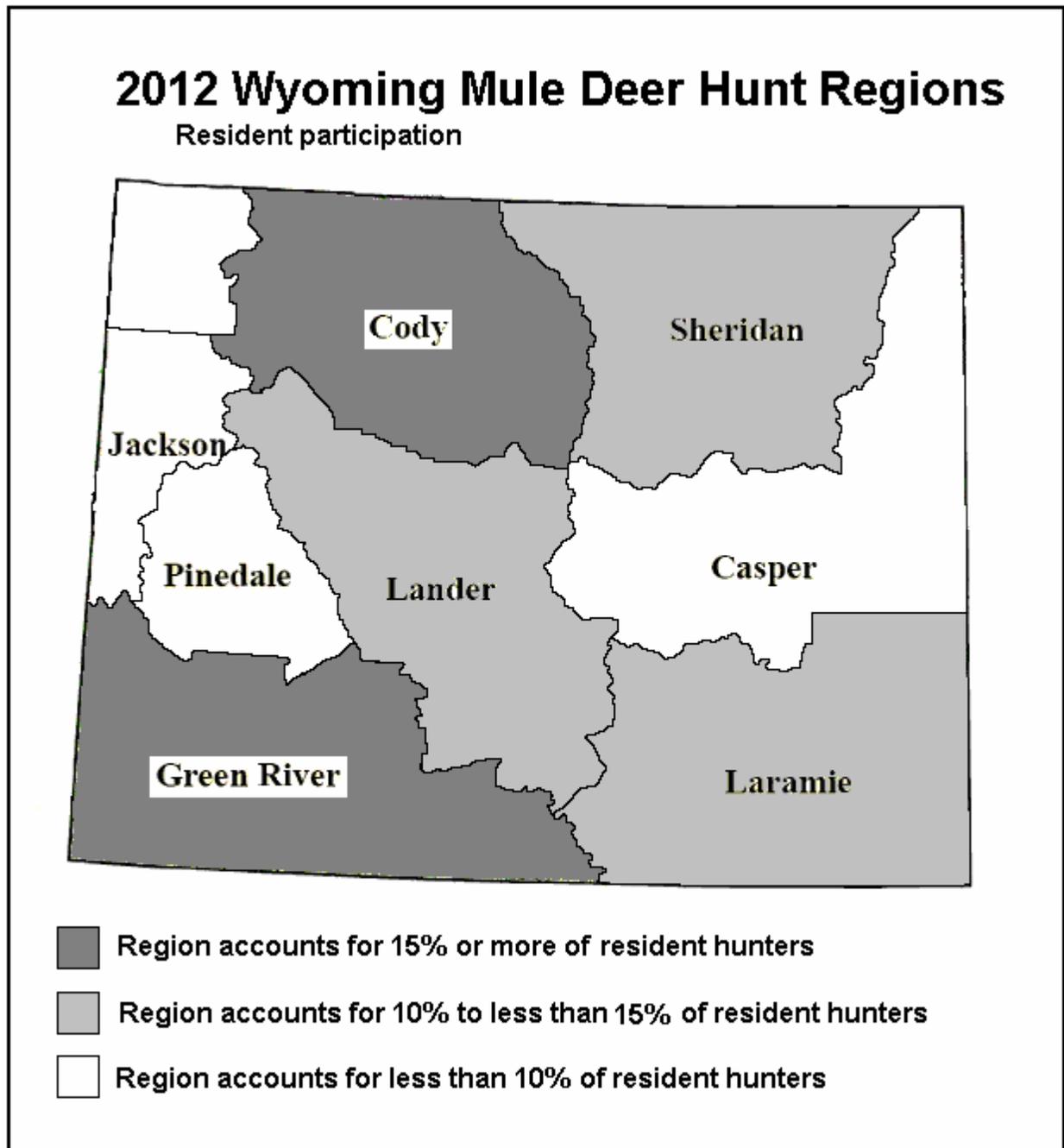




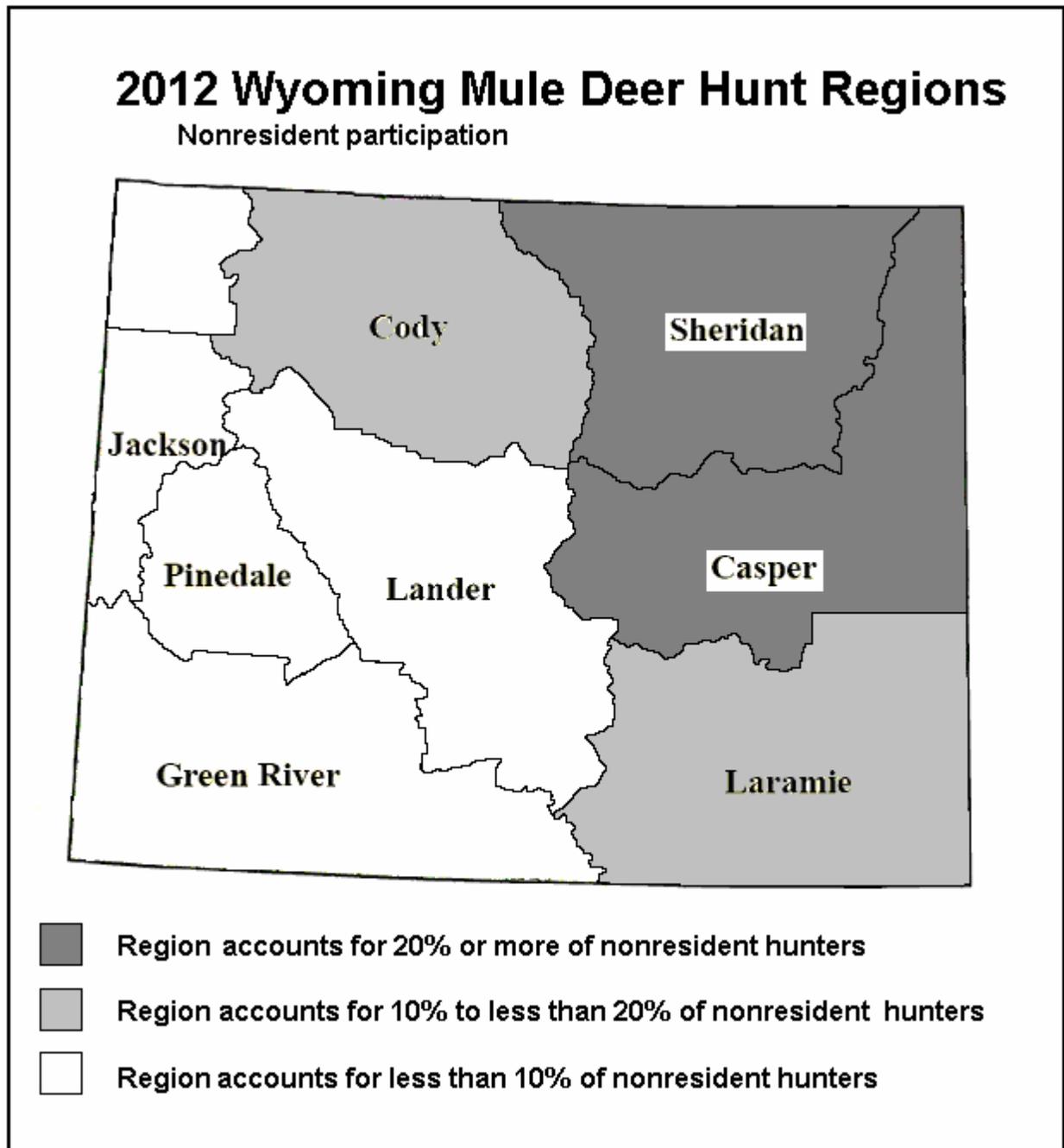
Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.

**Q25. Region most often hunted, based on data from the question: In what hunt area in Wyoming have you hunted mule deer the most often in the past 5 years?  
(Residents versus nonresidents.)**



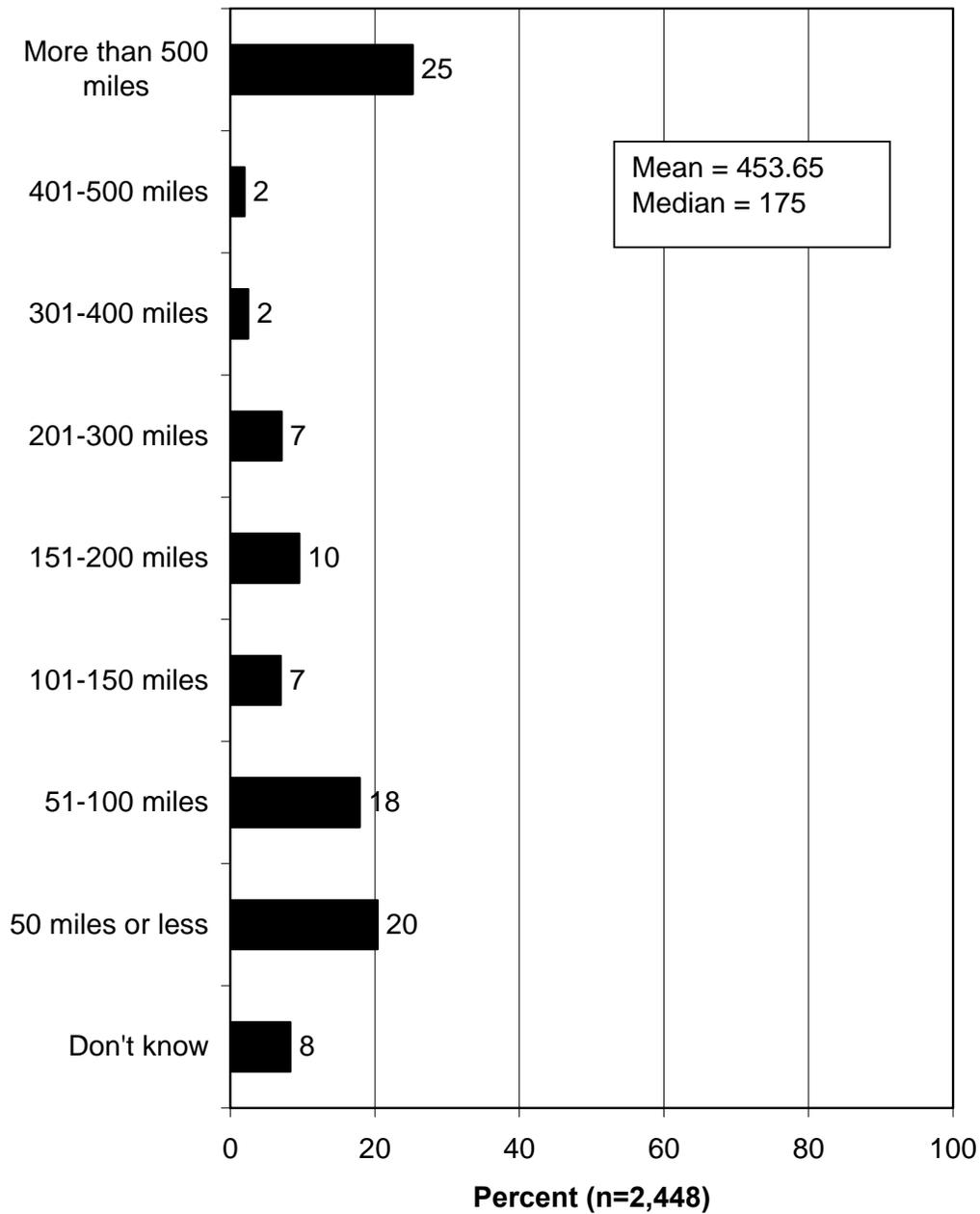


Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.

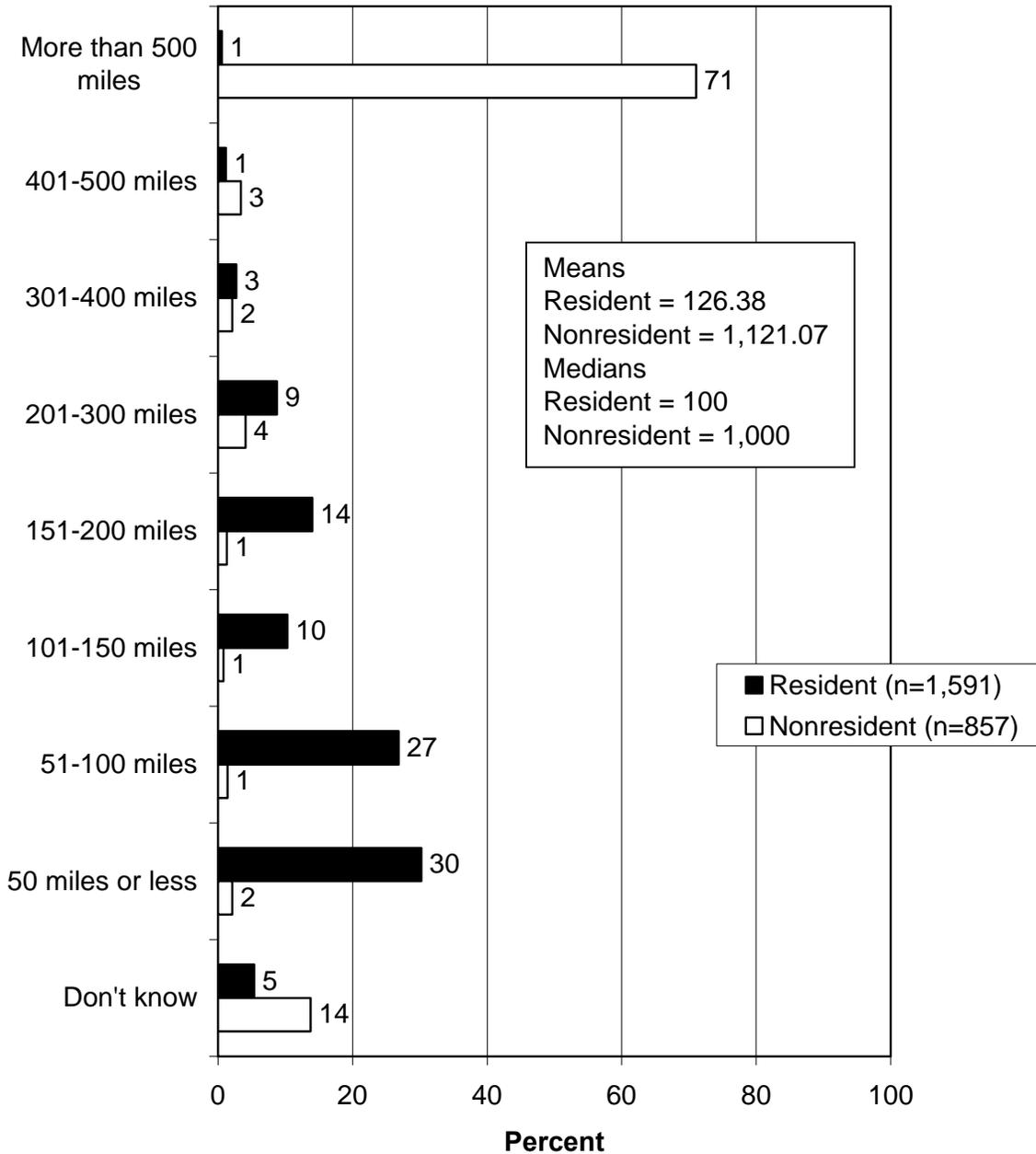


Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.

**Q19. How far, in miles, are you willing to travel,  
one-way, from home to hunt mule deer  
in Wyoming?  
(Statewide: residents and nonresidents.)**

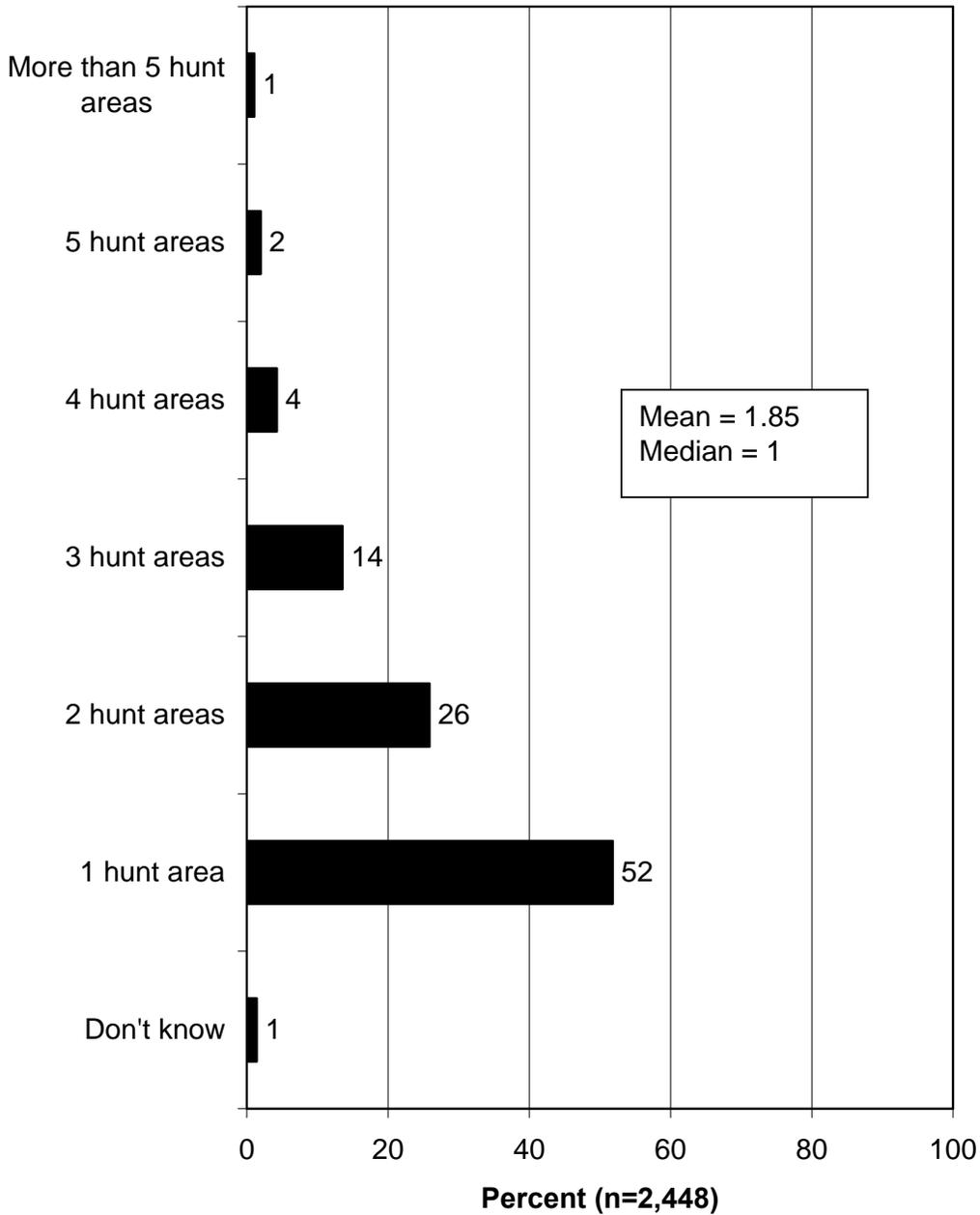


**Q19. How far, in miles, are you willing to travel, one-way, from home to hunt mule deer in Wyoming?  
(Residents versus nonresidents.)**

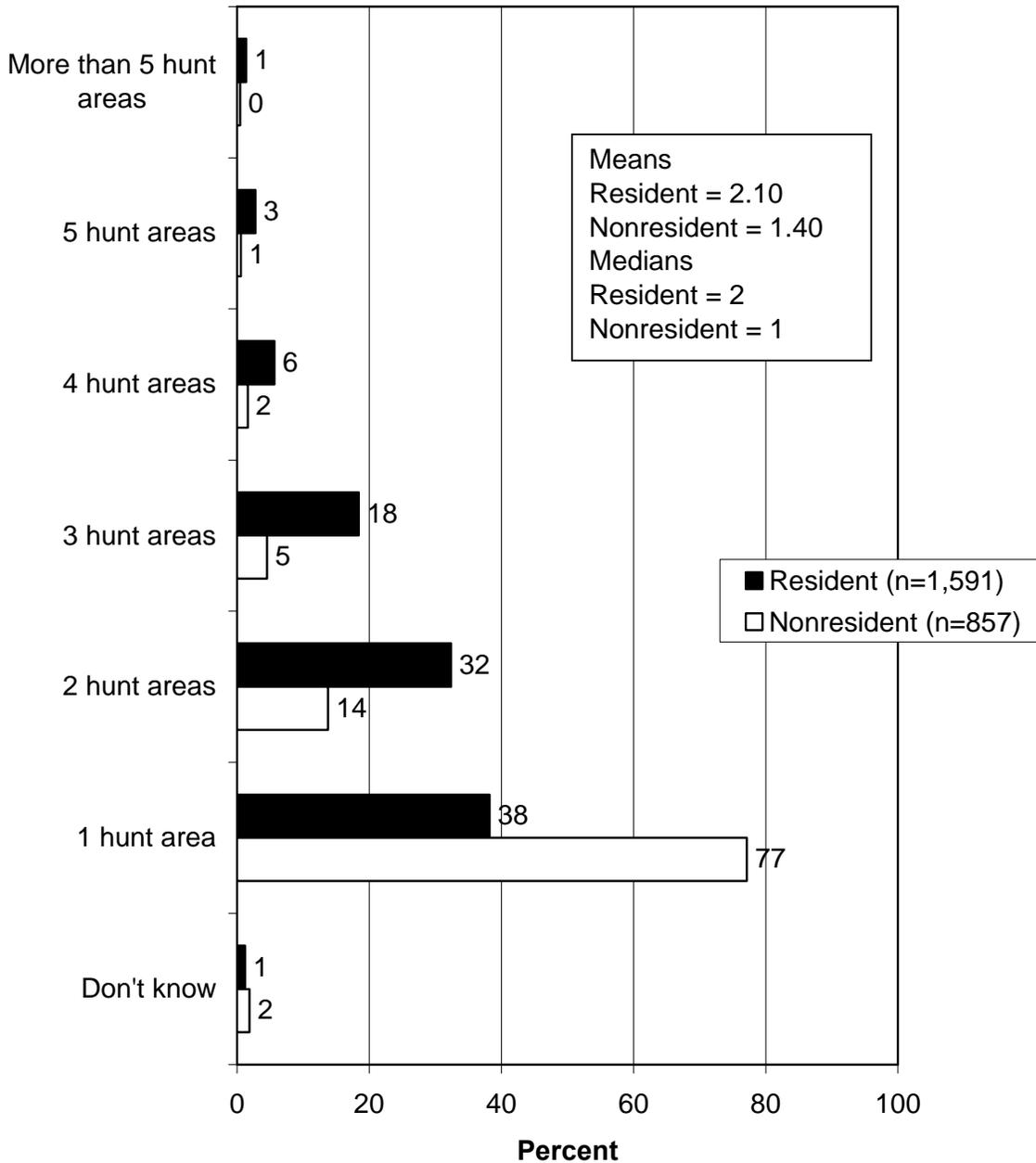


<b>Q19. How far, in miles, are you willing to travel, one-way, from home to hunt mule deer in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
50 miles or less	11	30	18	24	24	18	22	19	14	20
51-100 miles	13	19	26	15	22	17	13	15	18	18
101-150 miles	4	5	9	3	12	11	15	4	5	7
151-200 miles	8	6	13	11	13	13	19	6	8	10
201-300 miles	3	6	9	9	9	9	12	5	4	7
301-400 miles	3	2	2	2	3	4	4	1	3	2
401-500 miles	3	2	3	4	2	2	1	1	2	2
More than 500 miles	42	24	13	22	12	20	6	40	32	25
Don't know	14	7	8	10	3	6	6	9	14	8
Mean	680.94	414.67	273.19	484.13	248.94	381.82	227.62	662.60	569.16	453.65
Median	500	100	130	200	120	167.5	150	300	200	175

**Q22. In how many different hunt areas do you typically hunt mule deer in one season in Wyoming?  
(Statewide: residents and nonresidents.)**

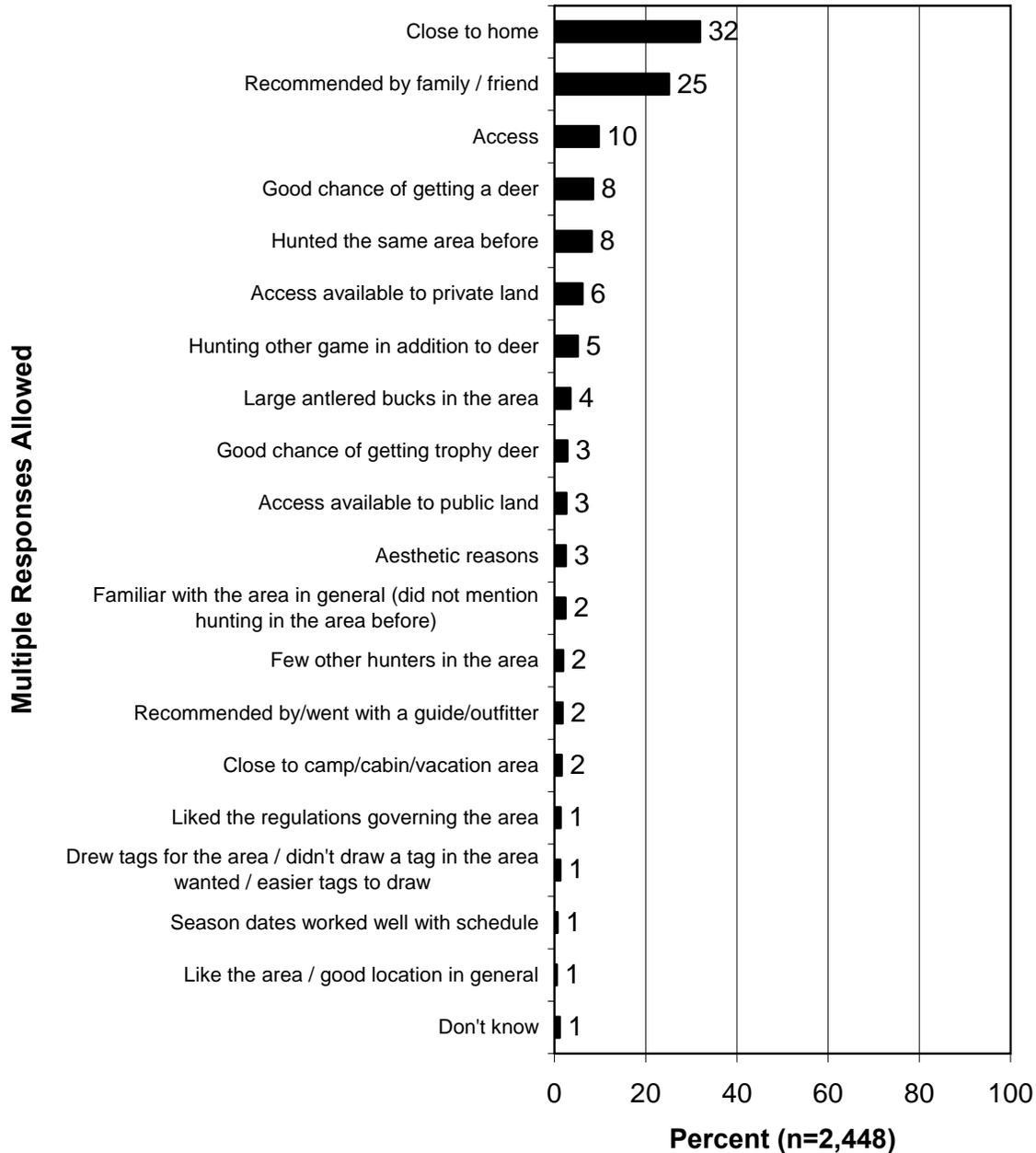


**Q22. In how many different hunt areas do you typically hunt mule deer in one season in Wyoming?  
(Residents versus nonresidents.)**



<b>Q22. In how many different hunt areas do you typically hunt mule deer in one season in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
1 hunt area	67	55	42	44	49	53	27	55	55	52
2 hunt areas	22	25	29	22	25	27	39	27	20	26
3 hunt areas	7	11	18	22	15	14	27	9	13	14
4 hunt areas	2	4	7	7	5	2	4	5	6	4
5 hunt areas	0	2	3	3	5	2	3	1	0	2
More than 5 hunt areas	1	1	1	0	1	2	1	1	2	1
Don't know	2	1	2	2	0	0	0	2	4	1
Mean	1.49	1.85	2.04	2.00	1.95	1.82	2.18	1.82	1.78	1.85
Median	1	1	2	2	2	1	2	1	1	1

**Q29. What were the main reasons you chose the hunt area where you most often hunted mule deer last season?  
(Statewide: residents and nonresidents.)**



**Q29. What were the main reasons you chose the hunt area where you most often hunted mule deer last season?  
(Residents versus nonresidents.)**



<b>Q29. What were the main reasons you chose the hunt area where you most often hunted mule deer last season?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Close to home	20	33	43	42	40	30	27	26	29	32
Recommended by family / friend	34	26	17	19	14	25	17	32	31	25
Access	13	13	8	5	6	7	11	12	7	10
Good chance of getting a deer	5	7	11	13	13	8	8	7	8	8
Hunted the same area before	5	9	9	10	9	8	16	6	4	8
Access available to private land	11	7	4	0	5	6	1	10	4	6
Hunting other game in addition to deer	6	5	3	5	8	6	10	5	3	5
Large antlered bucks in the area	1	4	5	7	4	3	5	2	3	4
Good chance of getting trophy deer	1	4	5	7	3	1	3	1	3	3
Access available to public land	3	2	3	1	1	2	2	5	3	3
Aesthetic reasons	1	3	3	4	3	2	4	2	3	3
Familiar with the area in general (did not mention hunting in the area before)	2	2	3	4	2	3	8	1	2	2
Few other hunters in the area	1	2	2	2	3	1	4	1	3	2
Recommended by/went with a guide/outfitter	2	1	0	4	0	1	1	4	5	2
Close to camp/cabin/vacation area	1	1	1	1	1	3	1	2	2	2
Liked the regulations governing the area	2	1	1	1	3	1	0	1	2	1
Drew tags for the area / didn't draw a tag in the area wanted / easier tags to draw	2	1	1	1	5	1	0	0	2	1
Season dates worked well with schedule	1	1	1	1	0	0	2	0	0	1
Like the area / good location in general	1	0	0	2	0	1	0	0	1	1
Area/wildlife well managed / good habitat	0	1	0	1	1	1	1	0	0	0
Heard it was a good area in general / did research on areas	1	0	0	1	0	0	0	0	3	0
General/open season / can buy tag/license over the counter	1	0	0	0	1	0	1	0	0	0
Good opportunity to harvest a doe / An abundance of does	0	1	0	0	1	0	0	0	0	0
Recommended in a magazine	0	0	0	0	0	0	0	0	0	0
To try something new/different	0	0	0	0	0	0	0	0	0	0
Other	1	0	0	0	0	0	1	1	0	0
Don't know	2	0	1	1	2	2	1	1	1	1

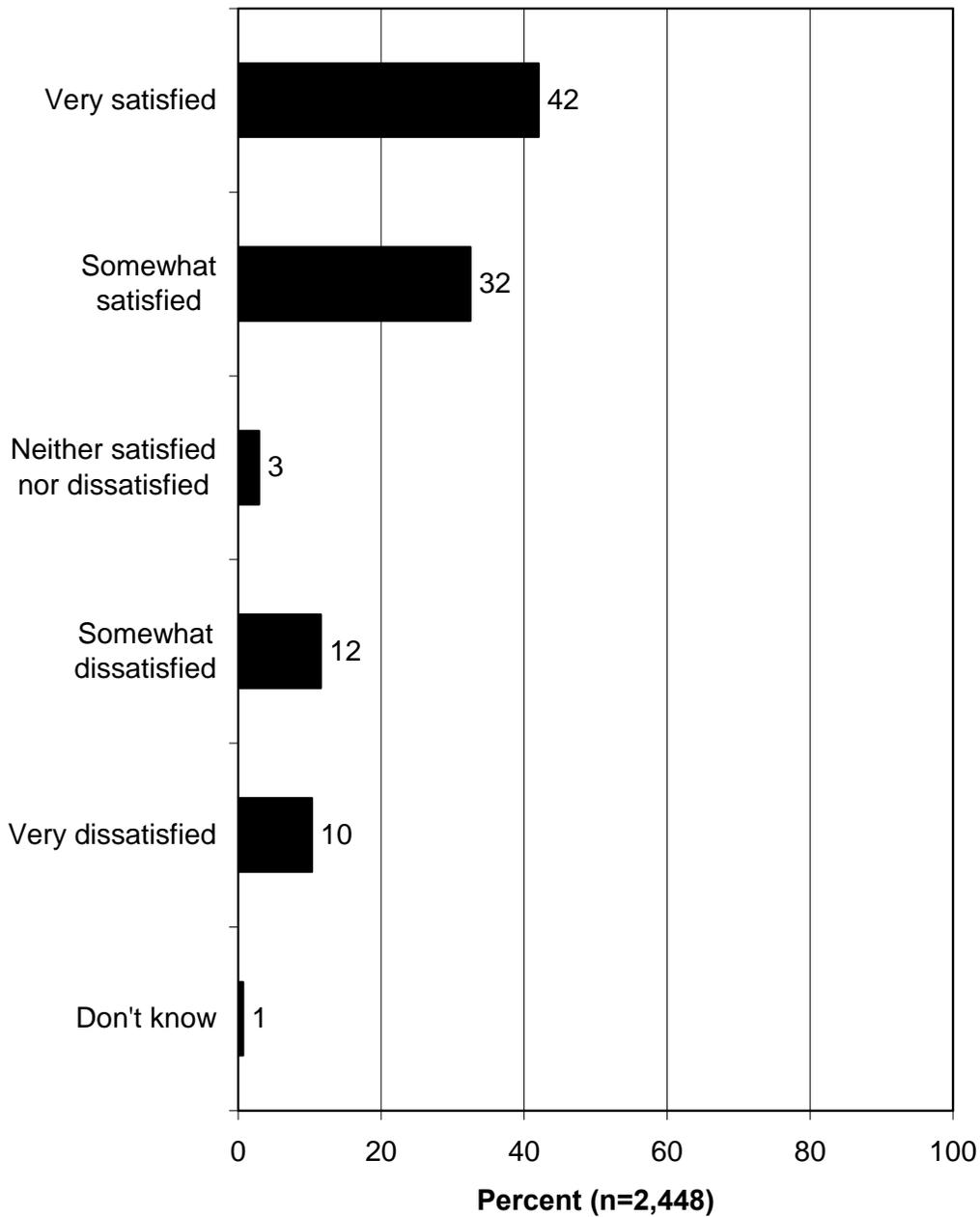
## OPINIONS ON THE QUALITY OF MULE DEER HUNTING IN WYOMING

- A large majority of mule deer hunters (74%) were satisfied with their mule deer hunting in Wyoming the last time they went. At the other end, 22% were dissatisfied.
  - Nonresidents show more satisfaction than do residents, particularly those who say that they are *very* satisfied (55% among nonresidents, 35% among residents); the differences are statistically significant ( $p \leq 0.001$ ).
  
- Follow-up questions to the one discussed above asked respondents to give the reasoning for giving the rating that they did. (Note that this follow-up question was asked of all respondents *except* those who answered “neither satisfied nor dissatisfied” or “don’t know” to the previous question; in the analysis, respondents were separated into those who were satisfied and those who were dissatisfied.)
  - Those who gave a “satisfied” rating most commonly did so because they felt that there were plenty of mule deer, that they simply enjoy hunting, that they had harvest success, or that they were in a good location.
  - Those who gave a “dissatisfied” rating most commonly did so because of a perceived lack of mule deer (by far the most common response), crowding, a dislike of the regulations or management, or a lack of harvest success.
    - Also in follow-up, those who complained specifically about nonresident hunters most commonly gave as reasons that there were simply too many nonresidents, that nonresidents tend to be less selective in what they shoot (i.e., do not care about deer management), and that they are overhunting areas. (Note that no resident/nonresident crosstabulation is shown for this because, not surprisingly, all those who complained specifically about nonresidents were resident hunters.)
    - In follow-up, those who said that crowding was a problem were asked to indicate how many other hunters they saw, as shown in the graph. The median was 25 other hunters, among those who got this question. The resident/nonresident crosstabulation is shown, with no marked differences between the groups.
    - As the final follow-up, interviewers were asked to indicate if the respondent, during the interview about their reasoning for giving the rating that they did, complained

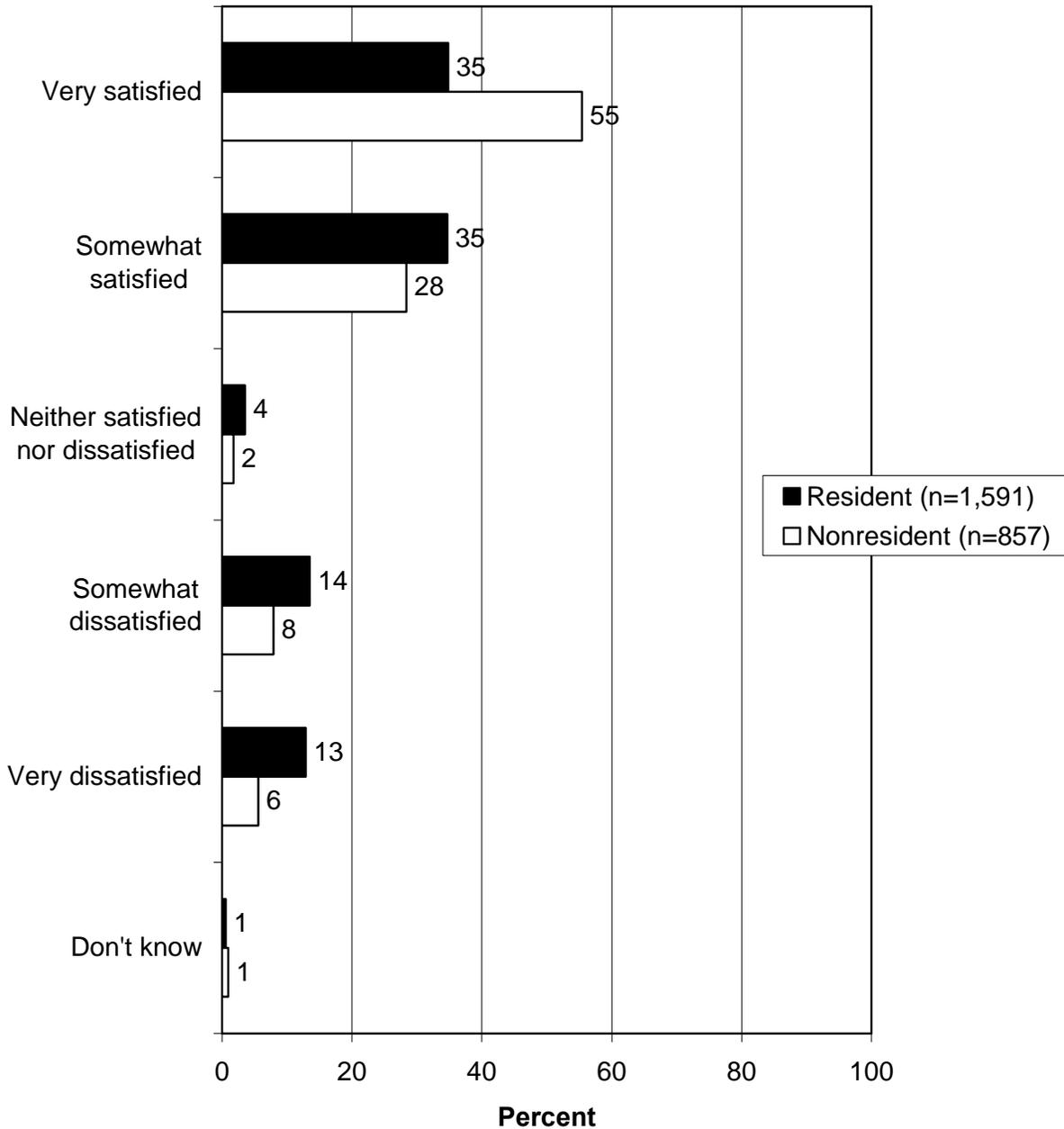
- about crowding from *resident* hunters or from *nonresident* hunters primarily. Most commonly they did not voluntarily specify whether crowding was from either group in particular; otherwise, complaints about nonresidents exceeded complaints about residents by 3 to 1. (Note that no question was read to respondents here; the data is based on interviewer observation.)
- The survey specifically asked about crowding (*after* the open-ended questions above about reasoning for giving particular ratings to the quality of mule deer hunting, so as to not bias answers on those open-ended questions). The most common perception among mule deer hunters in Wyoming is that the number of mule deer hunters in the field has increased (41%) over the past 5 years, far exceeding the percentage who think the number has decreased (13%). (The remainder answer neutrally.).
    - This sense of an increasing hunter population is higher among residents (50% say numbers are increasing) than among nonresidents (24%) ( $p \leq 0.001$ ).
  
  - In a similar vein to that which was explored in the question above, mule deer hunters were asked if the number of other hunters they saw was more than they expected, about what they expected, or fewer than they expected. Most commonly, they said it was about what they expected (42%); otherwise, about twice as many said it was more (38%) than they expected than said it was fewer (16%) than they expected.
    - As with the question discussed immediately above, residents are more likely to have a perception of crowding, compared to nonresidents. Whereas 44% of residents say that there were more hunters than they expected, only 27% of nonresidents say this ( $p \leq 0.001$ ).
  
  - Despite the results of Question 43 discussed above, wherein most mule deer hunters were satisfied with their mule deer hunting, nearly half of Wyoming mule deer hunters (47%) say that the quality of their deer hunting over the past 5 years has gotten worse. Otherwise, 44% give a neutral answer (the same, 34%; don't know, 10%), and only 9% say it has improved.

- Residents are much more likely to say that their mule deer hunting has gotten worse than are nonresidents (55% among residents, compared to 32% among nonresidents), a difference that is statistically significant ( $p \leq 0.001$ ).
  
- Mule deer hunters were read a list of six items that they might look for in a quality mule deer hunt; they were asked to select all that they look for. The top answers were aesthetic and social (outdoor experience, 47%; opportunity to spend time with family/friends, 43%) rather than utilitarian (harvest an animal, 38%).
  - One difference stands out between residents and nonresidents: the latter group are more likely than are residents to say that they look for the presence of large antlered bucks ( $p \leq 0.001$ ).
  
- Finally in this section, mule deer hunters were asked about the size of antlers as that relates to the quality of mule deer hunting. They were asked to name the minimum number of points necessary for a buck to be considered a quality buck, then they were asked about the antler spread in inches.
  - At least 4 points is the most common answer regarding the threshold for a buck to be considered a quality buck.
    - The crosstabulation shows little difference between residents and nonresidents on this question.
  - A spread of 24 inches is the median spread size for a buck to be considered a quality buck.
    - The crosstabulation shows little difference between residents and nonresidents on this question.

**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Statewide: residents and nonresidents.)**

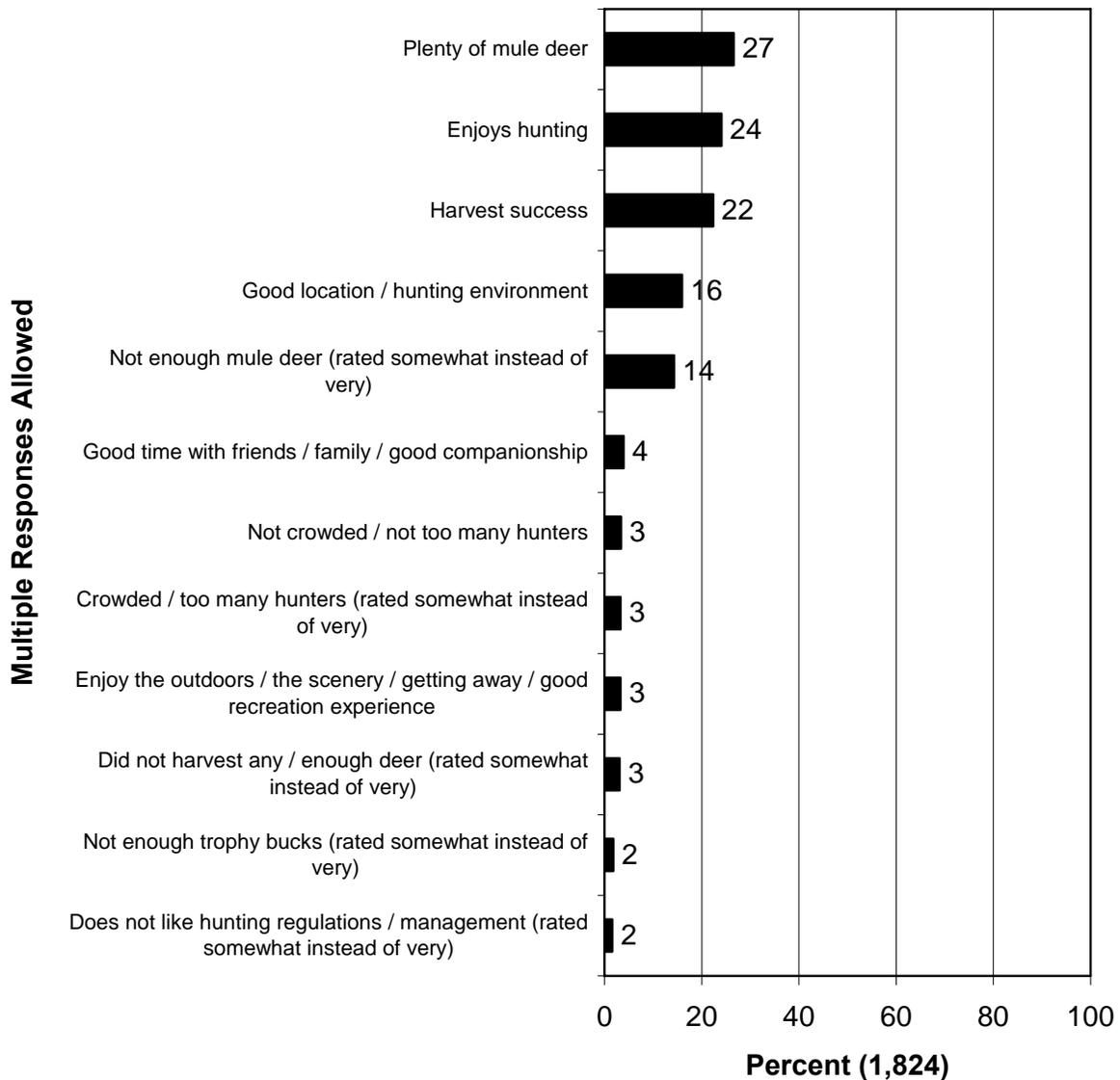


**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Residents versus nonresidents.)**

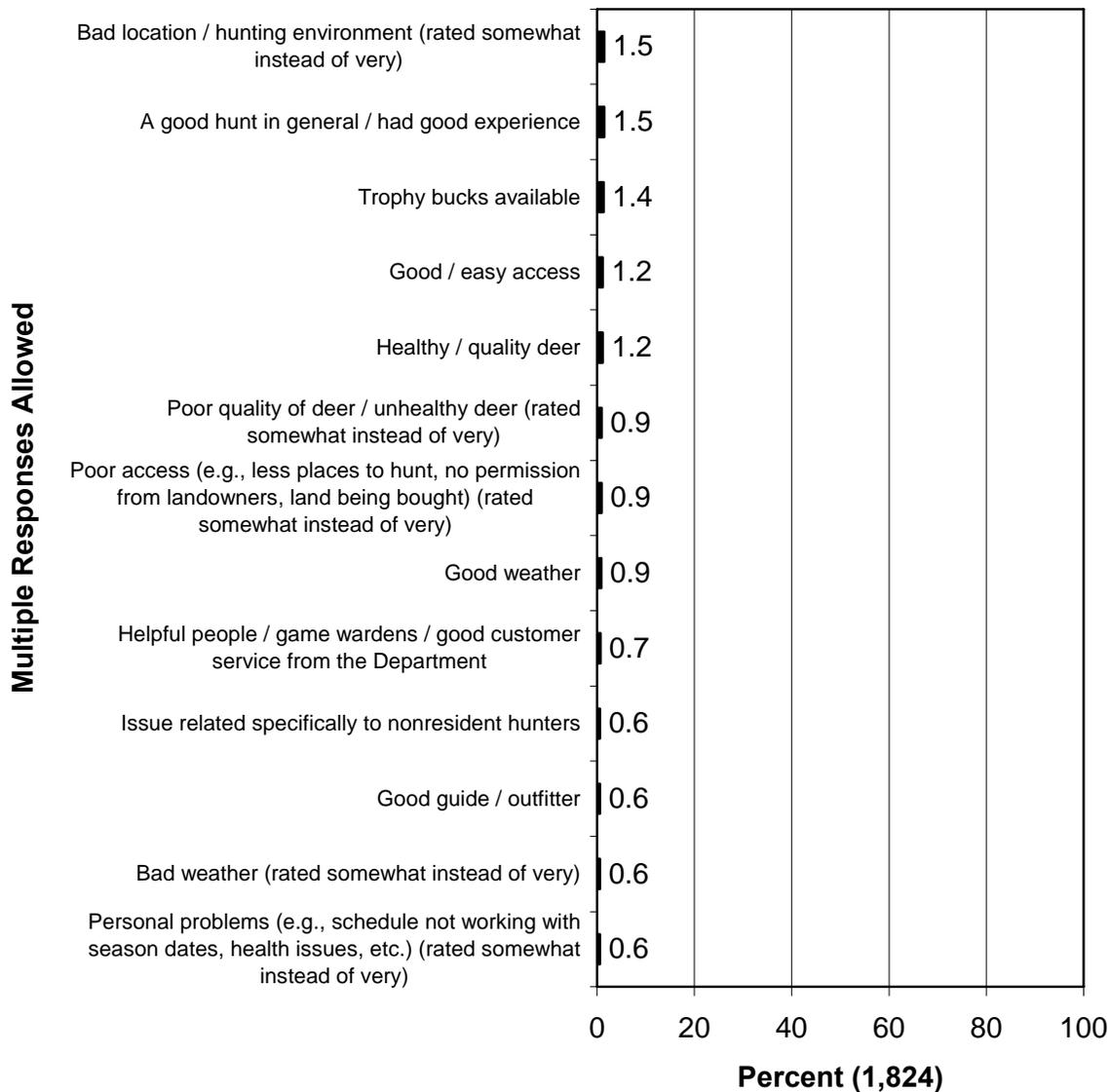


<b>Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very satisfied	49	47	32	32	44	37	28	50	43	42
Somewhat satisfied	32	31	35	36	30	36	34	30	33	32
Neither satisfied nor dissatisfied	3	3	3	4	4	3	3	2	3	3
Somewhat dissatisfied	11	11	13	14	13	12	17	9	13	12
Very dissatisfied	6	8	18	14	10	12	17	7	8	10
Don't know	0	1	0	0	1	1	2	1	1	1

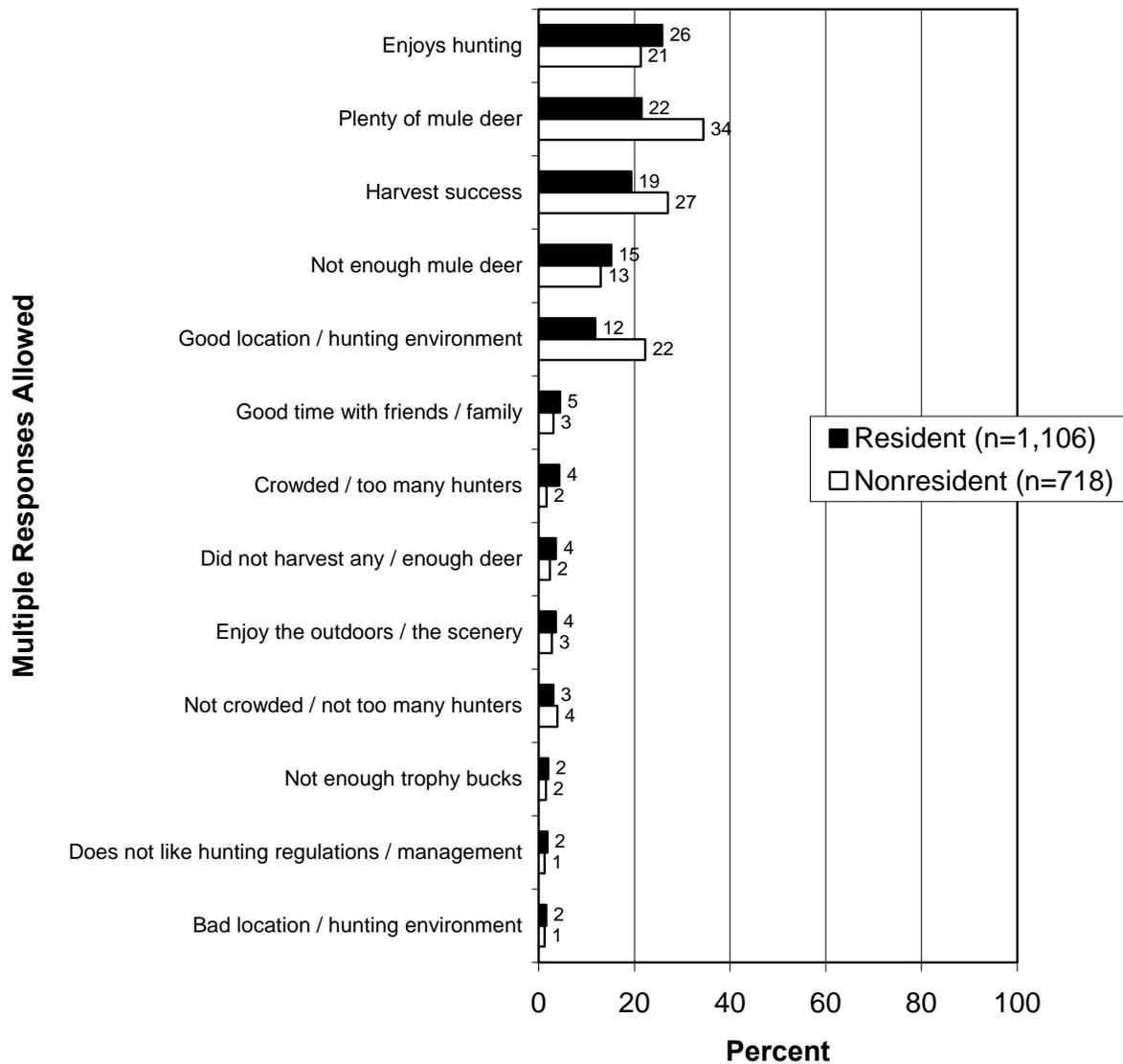
**Q46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming?**  
**(Among those who were satisfied with the overall quality of their mule deer hunting experience the last time they hunted in Wyoming.)**  
**(Statewide: residents and nonresidents.)**  
**(Part 1)**



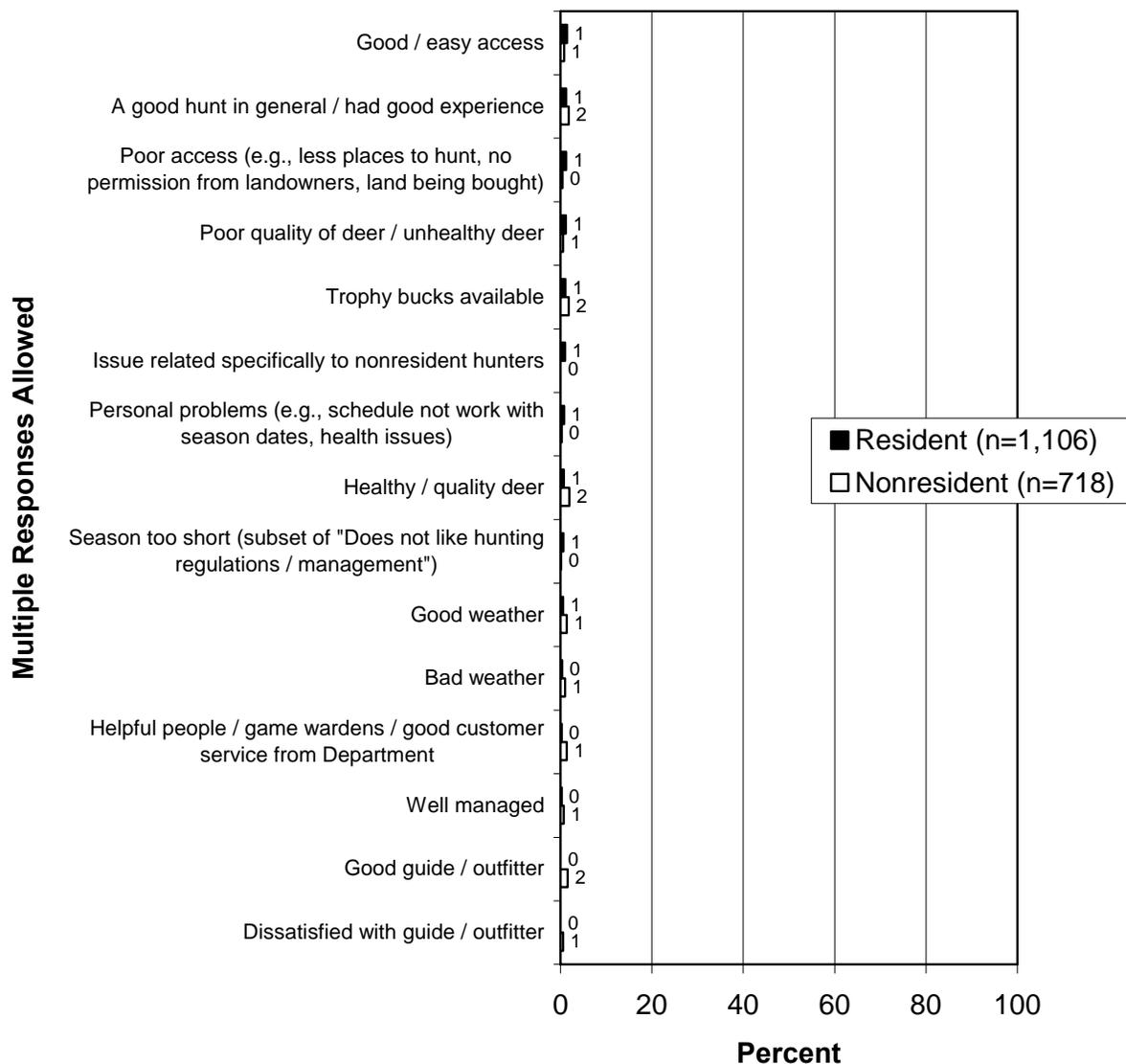
**Q46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming?**  
**(Among those who were satisfied with the overall quality of their mule deer hunting experience the last time they hunted in Wyoming.)**  
**(Statewide: residents and nonresidents.)**  
**(Part 2)**



**Q46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming?**  
**(Among those who were satisfied with the overall quality of their mule deer hunting experience the last time they hunted in Wyoming.)**  
**(Residents versus nonresidents.)**  
**(Part 1)**



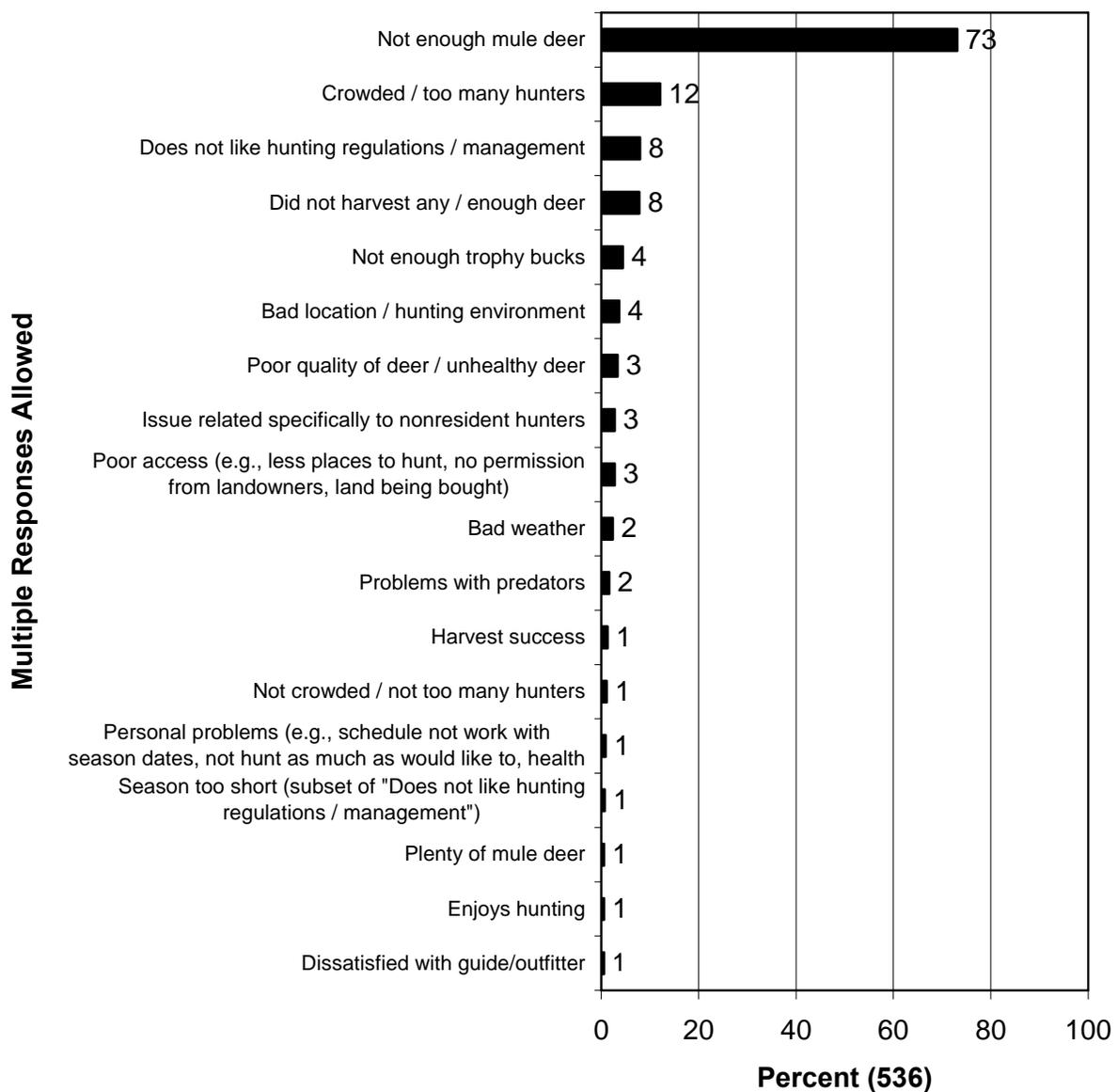
**Q46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming?**  
**(Among those who were satisfied with the overall quality of their mule deer hunting experience the last time they hunted in Wyoming.)**  
**(Residents versus nonresidents.)**  
**(Part 2)**



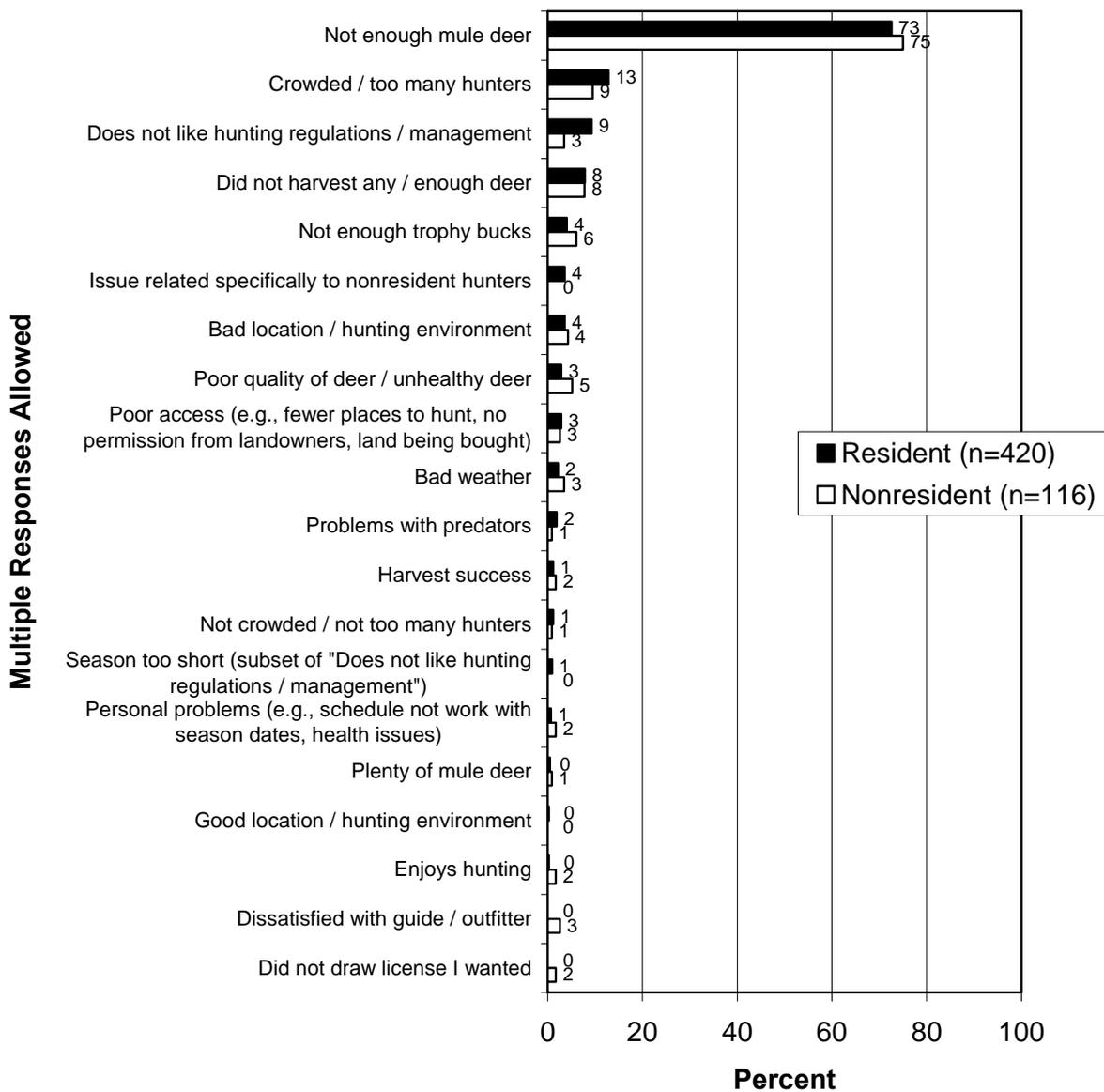
**Q46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming? (Among those who were satisfied with the overall quality of their mule deer hunting experience the last time they hunted in Wyoming.)**

	Casper (n=238)	Cody (n=352)	Green River (n=214)	Jackson (n=113)	Lander (n=158)	Laramie (n=235)	Pinedale (n=70)	Sheridan (n=354)	Don't know (n=90)	Total
Plenty of mule deer	32	30	19	28	23	20	16	33	23	27
Enjoys hunting	27	21	29	17	22	25	23	24	24	24
Harvest success	21	26	22	24	20	24	16	20	26	22
Good location / hunting environment	17	17	17	17	12	17	10	17	9	16
Not enough mule deer	13	11	14	19	18	16	29	11	16	14
Good time with friends/family / good companionship	3	3	3	4	5	4	3	5	4	4
Not crowded / not too many hunters	2	3	6	8	6	3	0	3	1	3
Crowded / too many hunters	3	3	6	2	4	3	3	3	2	3
Enjoy the outdoors/the scenery/getting away / good recreation experience	3	2	3	4	3	6	9	1	3	3
Did not harvest any / enough deer	2	2	2	9	3	6	4	2	1	3
Not enough trophy bucks	3	3	1	1	4	0	1	1	1	2
Does not like hunting regulations / management	2	2	1	3	1	1	1	1	3	2
Bad location / hunting environment	2	2	0	1	1	2	0	2	3	1
A good hunt in general / had good experience	1	2	0	1	3	0	0	2	1	1
Trophy bucks available	0	1	2	1	1	2	0	2	1	1
Good/easy access	1	1	1	0	1	2	0	2	1	1
Healthy/quality deer	1	1	1	1	1	1	3	2	1	1
Poor quality of deer / unhealthy deer	1	1	1	1	0	1	1	1	0	1
Poor access (e.g., less places to hunt, no permission from landowners, land being bought)	1	1	1	1	0	1	1	2	0	1
Good weather	0	1	0	0	1	2	1	1	0	1
Helpful people/game wardens / good customer service from the Department	1	1	0	0	1	0	0	1	0	1
Issue related specifically to nonresident hunters	2	1	0	1	1	0	0	0	0	1
Bad weather	2	0	0	0	0	1	1	0	0	1
Personal problems (e.g., schedule not work with season dates, not hunt as much as would like to, health issues)	0	1	0	0	1	1	1	0	1	1
Good guide/outfitter	0	0	0	1	0	0	0	2	1	1
Season too short (subset of "Does not like hunting regulations / management")	0	1	0	1	0	0	1	1	0	0
Well managed	0	1	1	0	1	0	0	0	0	0
Dissatisfied with guide/outfitter	0	0	0	2	0	0	0	0	0	0
Can hunt other species at same time	0	0	0	0	0	0	1	0	0	0
Other	0	1	0	0	1	1	3	0	3	1
Don't know	2	2	3	4	3	3	4	2	3	3

**Q46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming?**  
**(Among those who were dissatisfied with the overall quality of their mule deer hunting experience the last time they hunted in Wyoming.)**  
**(Statewide: residents and nonresidents.)**

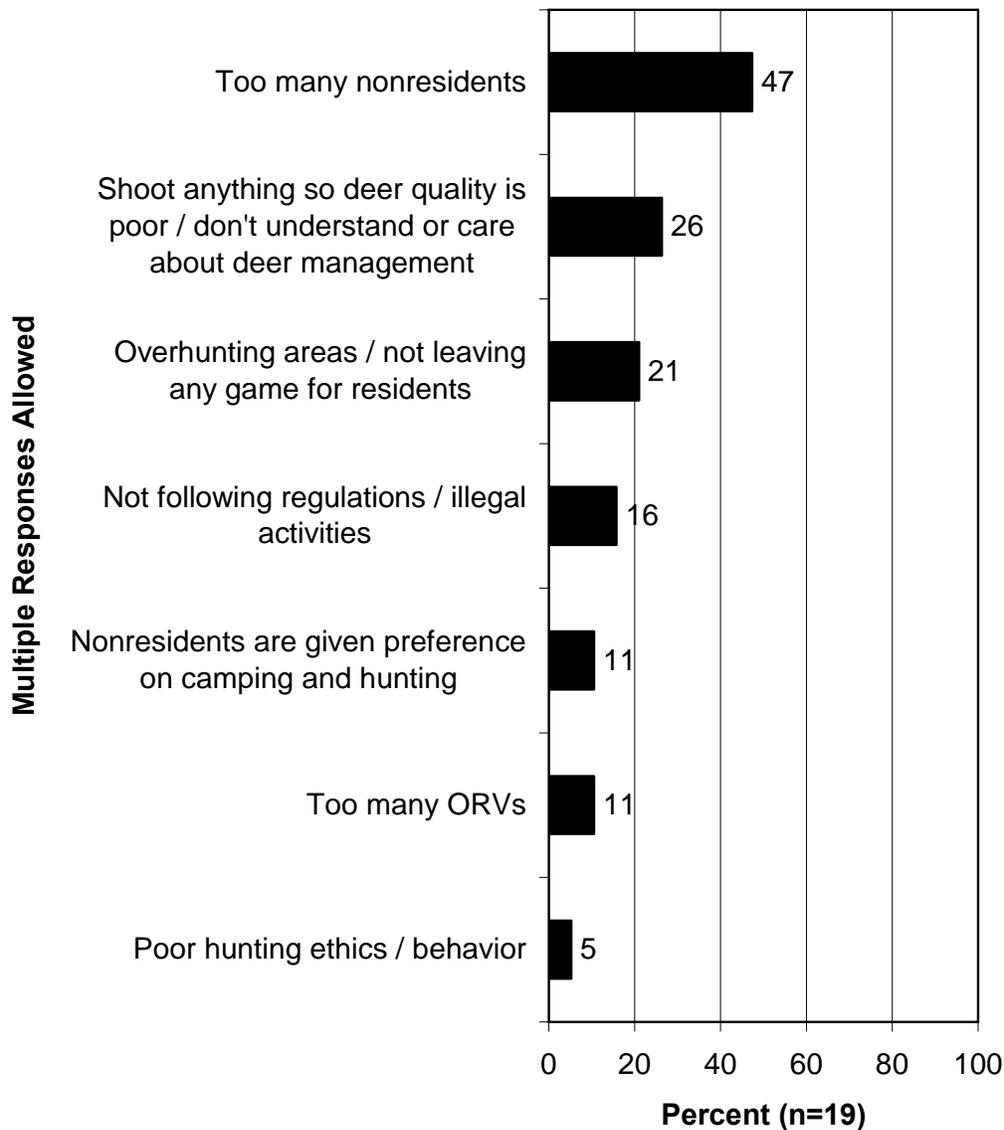


**Q46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming?**  
**(Among those who were dissatisfied with the overall quality of their mule deer hunting experience the last time they hunted in Wyoming.)**  
**(Residents versus nonresidents.)**



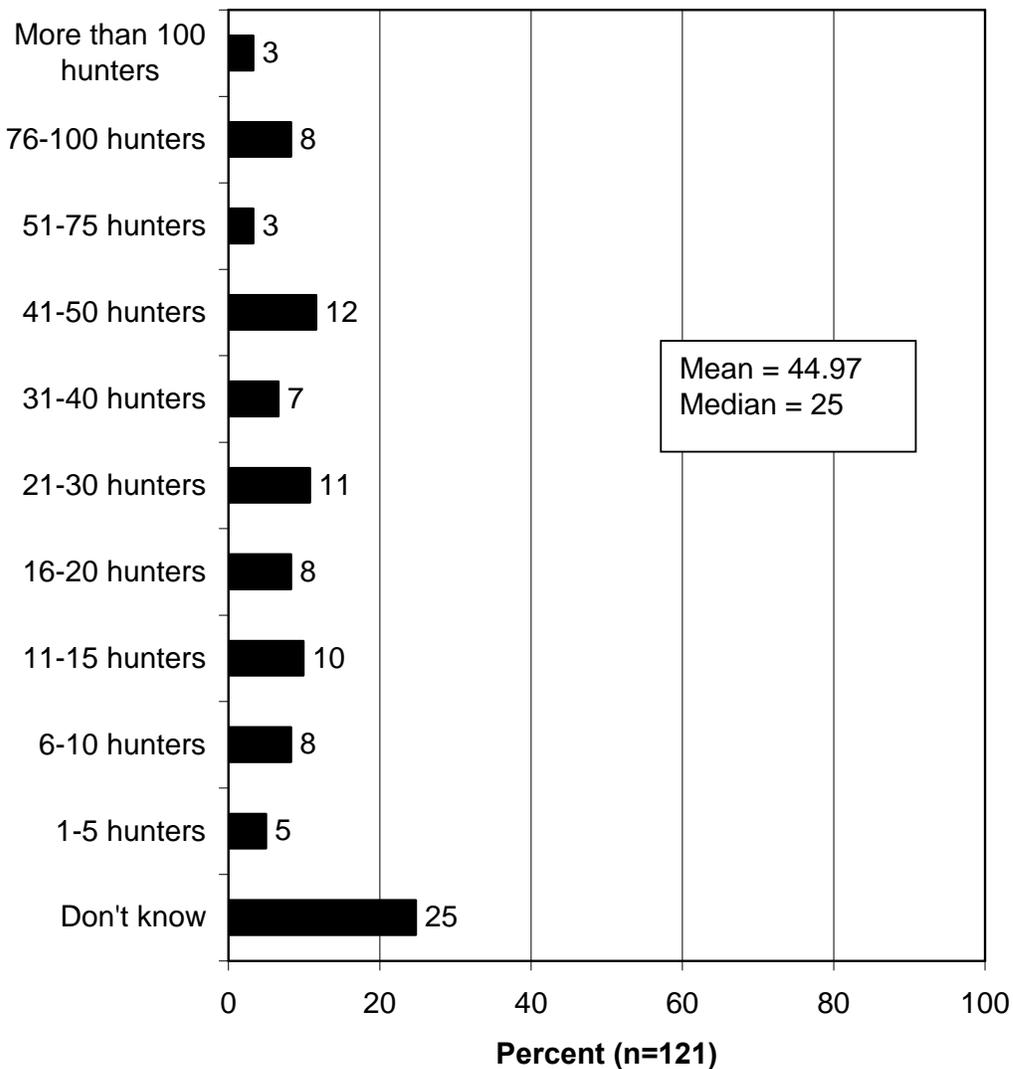
<b>Q46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming? (Among those who were dissatisfied with the overall quality of their mule deer hunting experience the last time they hunted in Wyoming.)</b>										
	Casper (n=50)	Cody (n=84)	Green River (n=96)	Jackson (n=48)	Lander (n=48)	Laramie (n=76)	Pinedale (n=38)	Sheridan (n=71)	Don't know (n=25)	Total
Not enough mule deer	76	67	75	69	65	83	82	63	92	73
Crowded / too many hunters	10	10	18	10	25	7	8	13	4	12
Does not like hunting regulations / management	10	11	9	4	15	5	5	7	0	8
Did not harvest any / enough deer	10	7	4	10	10	7	5	10	12	8
Not enough trophy bucks	4	4	5	6	4	1	5	3	16	4
Bad location / hunting environment	0	8	5	2	2	3	0	6	0	4
Poor quality of deer / unhealthy deer	6	2	3	0	2	5	0	3	12	3
Poor access (e.g., less places to hunt, no permission from landowners, land being bought)	4	1	2	2	4	0	5	7	0	3
Issue related specifically to nonresident hunters	6	6	2	0	4	0	3	3	0	3
Bad weather	8	2	1	4	2	1	3	1	0	2
Problems with predators	0	2	0	6	4	1	3	0	0	2
Harvest success	0	0	0	0	2	4	3	3	0	1
Not crowded / not too many hunters	0	2	0	0	0	4	3	0	0	1
Personal problems (e.g., schedule not work with season dates, not hunt as much as would like to, health issues)	0	1	2	0	0	1	0	1	0	1
Season too short (subset of "Does not like hunting regulations / management")	0	1	2	0	0	0	0	1	0	1
Plenty of mule deer	0	1	1	2	0	0	0	0	0	1
Enjoys hunting	0	0	0	2	0	1	0	1	0	1
Dissatisfied with guide/outfitter	0	1	1	2	0	0	0	0	0	1
Did not draw license I wanted	2	0	0	2	0	0	0	0	0	0
Good location / hunting environment	0	0	0	0	2	0	0	0	0	0
Other	0	2	1	2	2	0	3	4	4	2
Don't know	0	0	0	0	0	0	5	0	0	0

**Q49. What are the specific issues related to nonresident hunters that contributed to your level of satisfaction? (Asked of those who indicated that issues related to nonresident hunters contributed to their level of satisfaction with the quality of their mule deer hunting experience in Wyoming.) (Statewide: residents and nonresidents.)**

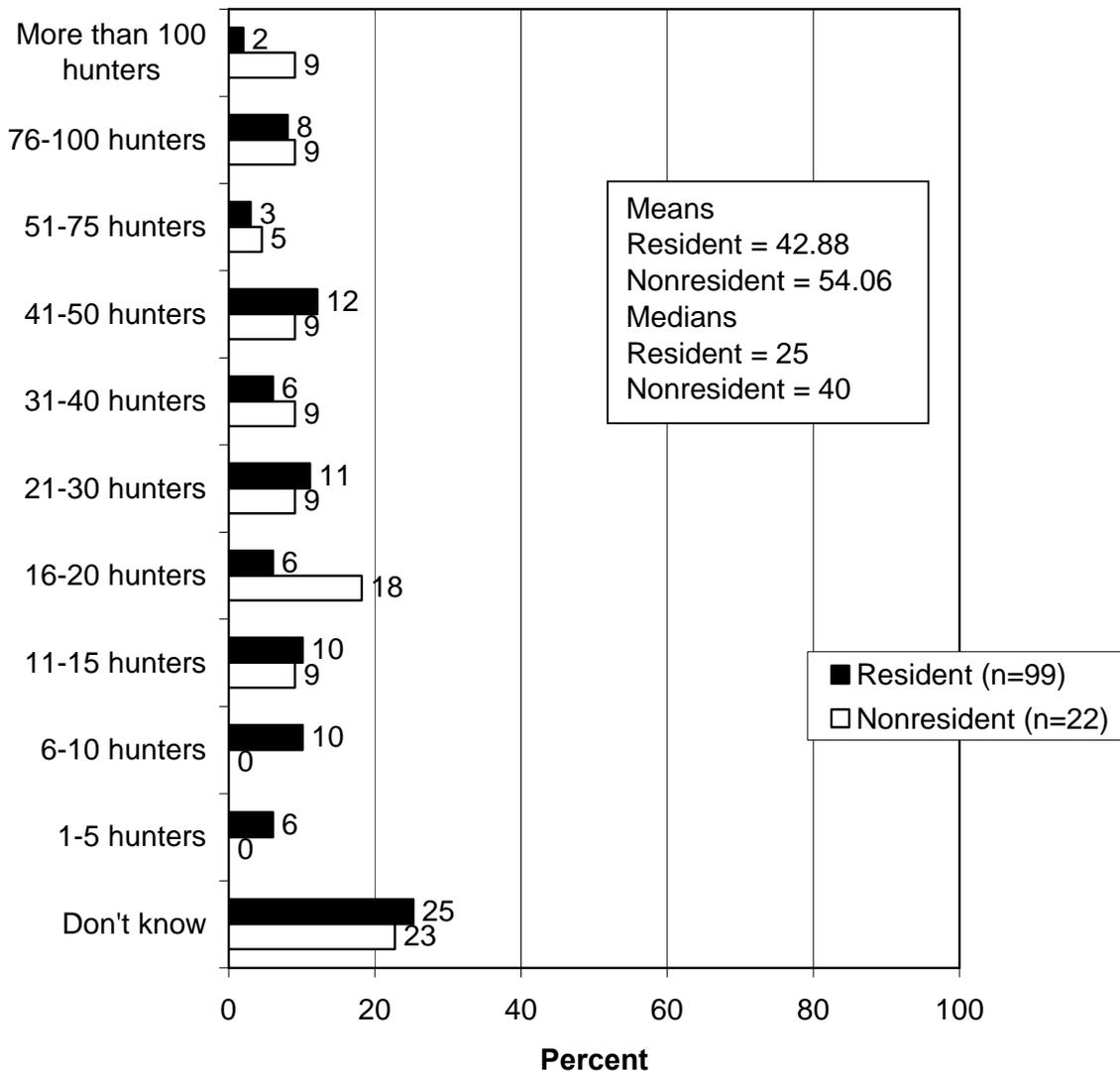


<b>Q49. What are the specific issues related to nonresident hunters that contributed to your level of satisfaction? (Asked of those who indicated that issues related to nonresident hunters contributed to their satisfaction with the quality of their mule deer hunting experience in Wyoming.)</b>						
	<b>Casper (n=2)</b>	<b>Cody (n=2)</b>	<b>Green River (n=1)</b>	<b>Jackson (n=1)</b>	<b>Lander (n=2)</b>	<b>Total</b>
Too many nonresidents	0	100	100	100	100	75
Shoot anything so deer quality is poor / don't understand or care about deer management	50	0	0	0	0	13
Overhunting areas / not leaving any game for residents	50	0	0	0	0	13
Not following regulations / illegal activities	0	0	0	0	50	13
Nonresidents are given preference on camping and hunting	50	0	0	0	0	13

**Q50. You said that crowding or too many other hunters affected your satisfaction with mule deer hunting in Wyoming. How many other hunters did you see in the field the last time you felt there were too many hunters? (Asked of those who indicated that crowding or too many hunters contributed to their level of satisfaction with the quality of their mule deer hunting experience in Wyoming.) (Statewide: residents and nonresidents.)**

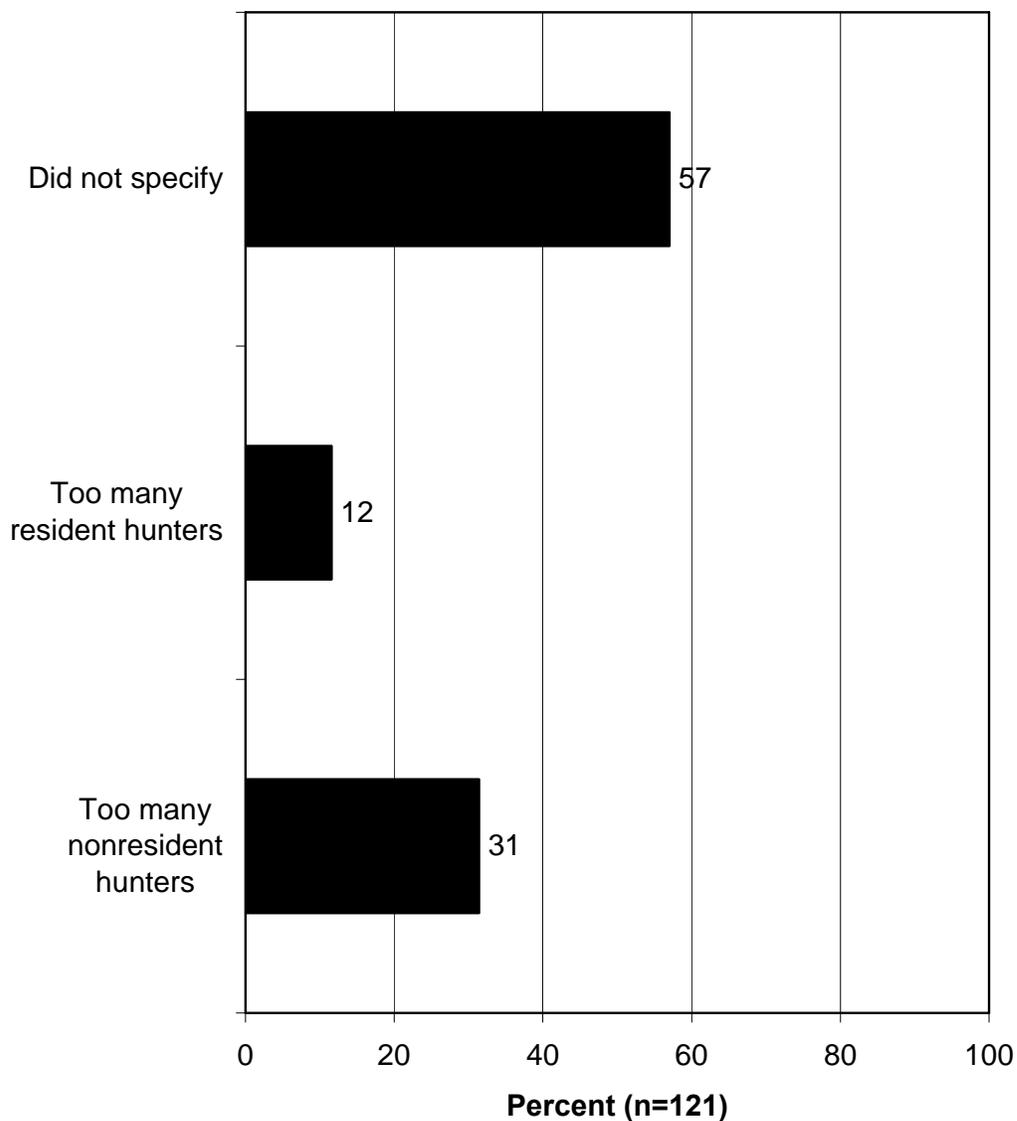


**Q50. You said that crowding or too many other hunters affected your satisfaction with mule deer hunting in Wyoming. How many other hunters did you see in the field the last time you felt there were too many hunters? (Asked of those who indicated that crowding or too many hunters contributed to their level of satisfaction with the quality of their mule deer hunting experience in Wyoming.) (Residents versus nonresidents.)**

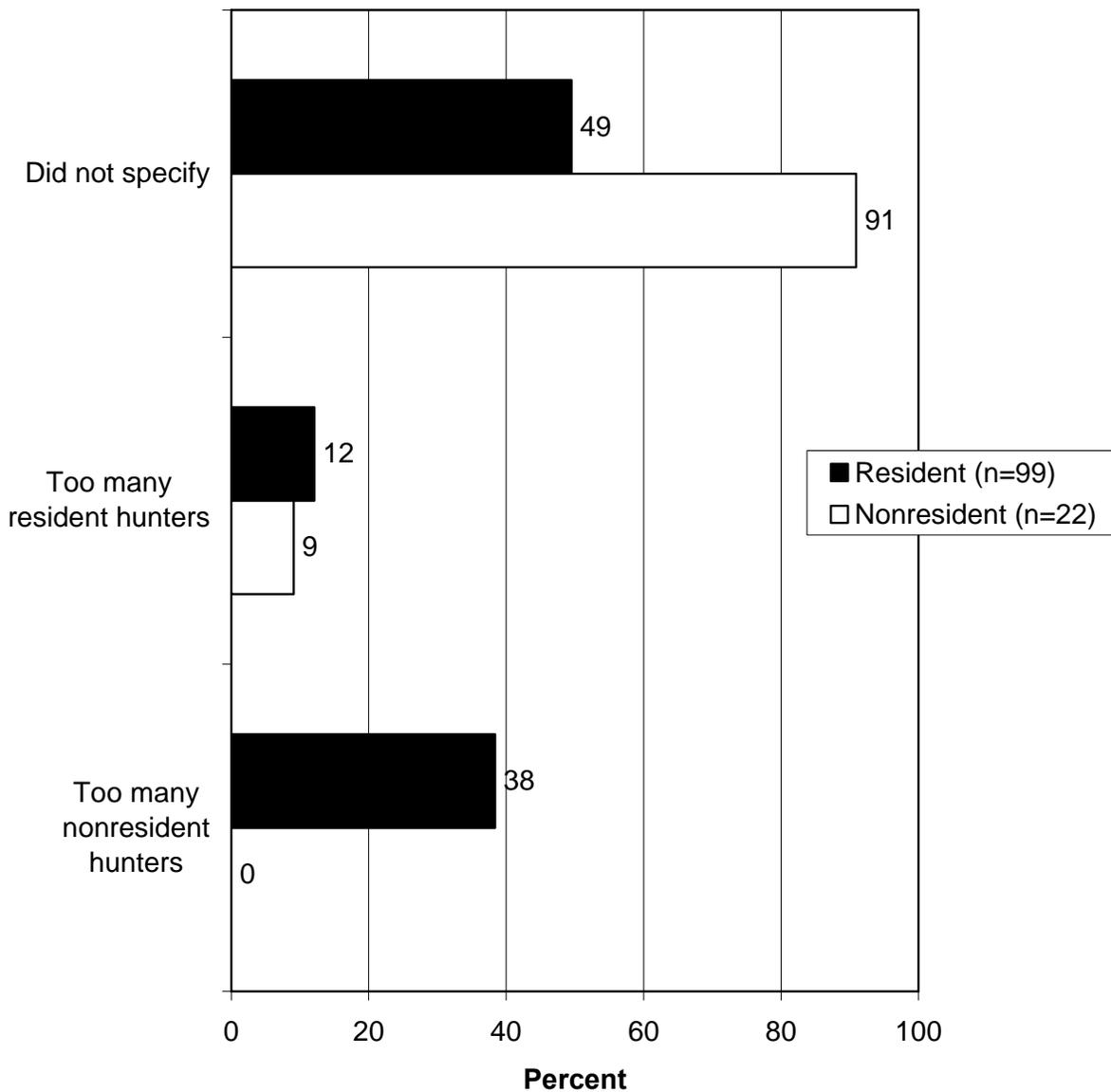


<b>Q50. You said that crowding or too many other hunters affected your satisfaction with mule deer hunting in Wyoming. How many other hunters did you see in the field the last time you felt there were too many hunters? (Asked of those who indicated that crowding or too many hunters contributed to their level of satisfaction with the quality of their mule deer hunting experience in Wyoming.)</b>										
	Casper (n=12)	Cody (n=20)	Green River (n=29)	Jackson (n=6)	Lander (n=18)	Laramie (n=11)	Pinedale (n=5)	Sheridan (n=17)	Don't know (n=3)	Total
1-5 hunters	0	0	3	17	11	9	0	0	33	5
6-10 hunters	17	15	0	17	6	0	20	12	0	8
11-15 hunters	17	15	7	17	11	0	20	6	0	10
16-20 hunters	8	10	7	17	11	9	0	6	0	8
21-30 hunters	0	15	10	17	6	9	0	24	0	11
31-40 hunters	8	5	3	0	17	9	0	6	0	7
41-50 hunters	17	10	14	0	0	18	20	18	0	12
51-75 hunters	0	0	10	0	6	0	0	0	0	3
76-100 hunters	0	10	14	17	11	0	20	0	0	8
More than 100 hunters	0	0	7	0	0	0	0	0	67	3
Don't know	33	20	24	0	22	45	20	29	0	25
Mean	25.50	32.31	72.45	30.00	35.07	32.17	38.75	29.42	135.00	44.97
Median	16	22.5	50	17.5	22.5	34.5	32.5	30	200	25

**Q53. Did respondent indicate that crowding or too many hunters were specifically resident or nonresident hunters?  
(Observed, not asked, by interviewer from those who indicated that crowding or too many hunters contributed to their level of satisfaction with the quality of their mule deer hunting experience in Wyoming.)  
(Statewide: residents and nonresidents.)**

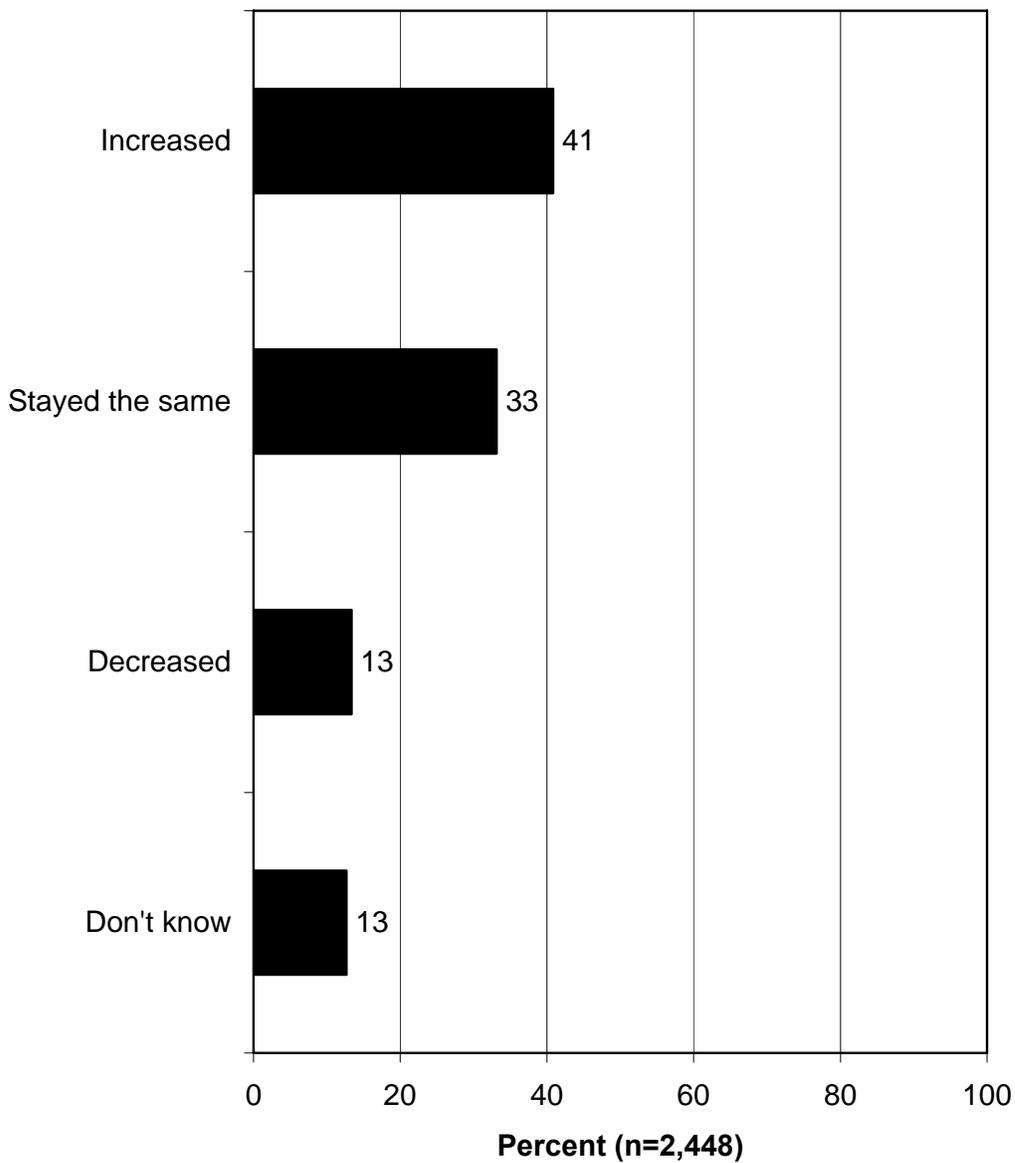


**Q53. Did respondent indicate that crowding or too many hunters were specifically resident or nonresident hunters?  
 (Observed, not asked, by interviewer from those who indicated that crowding or too many hunters contributed to their level of satisfaction with the quality of their mule deer hunting experience in Wyoming.)  
 (Residents versus nonresidents.)**

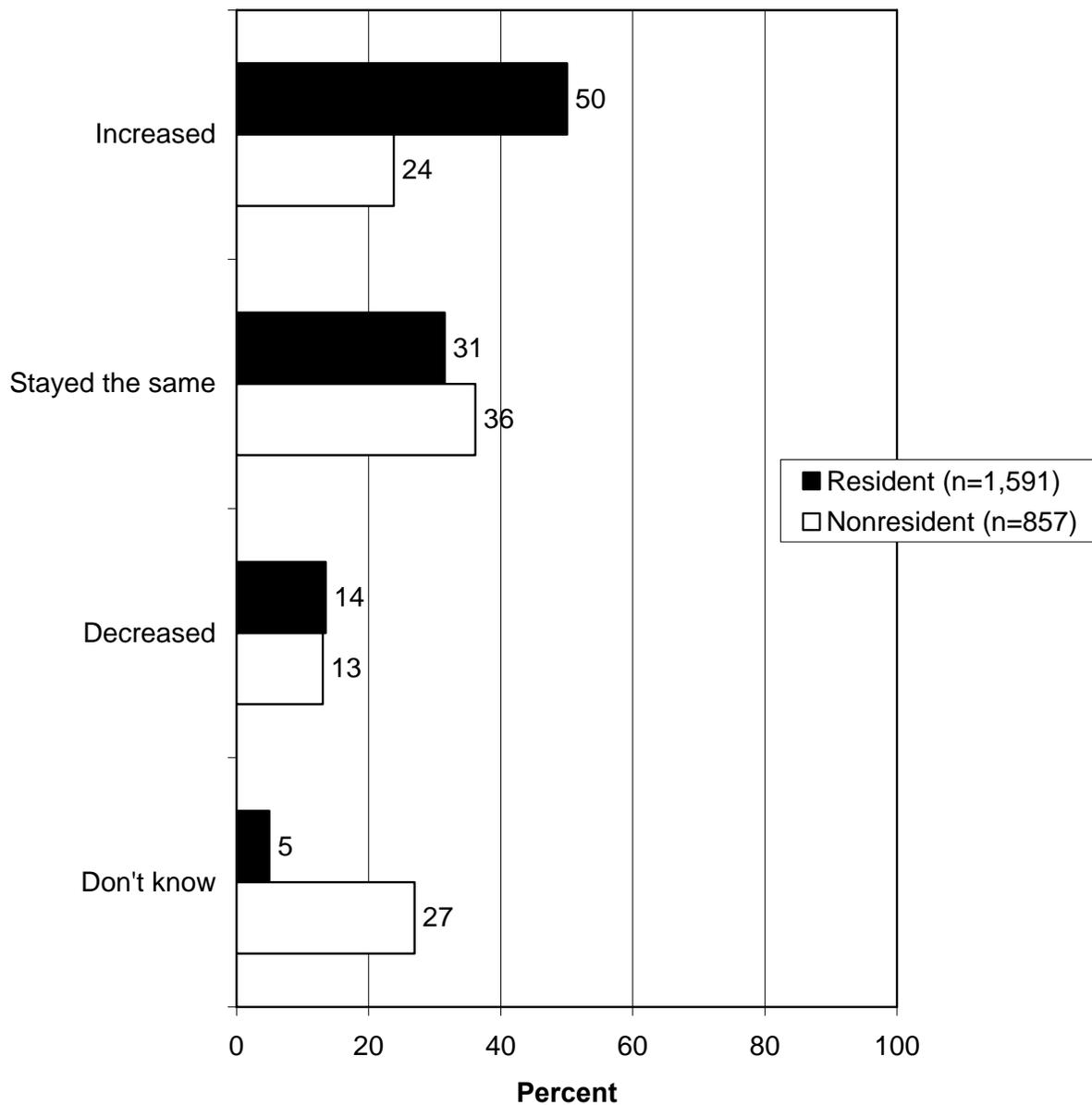


<b>Q53. Did respondent indicate that crowding or too many hunters were specifically resident or nonresident hunters? (Observed, not asked, by interviewer from those who indicated that crowding or too many hunters contributed to their level of satisfaction with the quality of their mule deer hunting experience in Wyoming.)</b>										
	<b>Casper (n=12)</b>	<b>Cody (n=20)</b>	<b>Green River (n=29)</b>	<b>Jackson (n=6)</b>	<b>Lander (n=18)</b>	<b>Laramie (n=11)</b>	<b>Pinedale (n=5)</b>	<b>Sheridan (n=17)</b>	<b>Don't know (n=3)</b>	<b>Total</b>
Did not specify	33	45	69	50	56	45	60	82	33	57
Too many resident hunters	25	0	7	0	17	27	20	6	33	12
Too many nonresident hunters	42	55	24	50	28	27	20	12	33	31

**Q54. Would you say the number of hunters in the field has increased, stayed the same, or decreased in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years? (Statewide: residents and nonresidents.)**



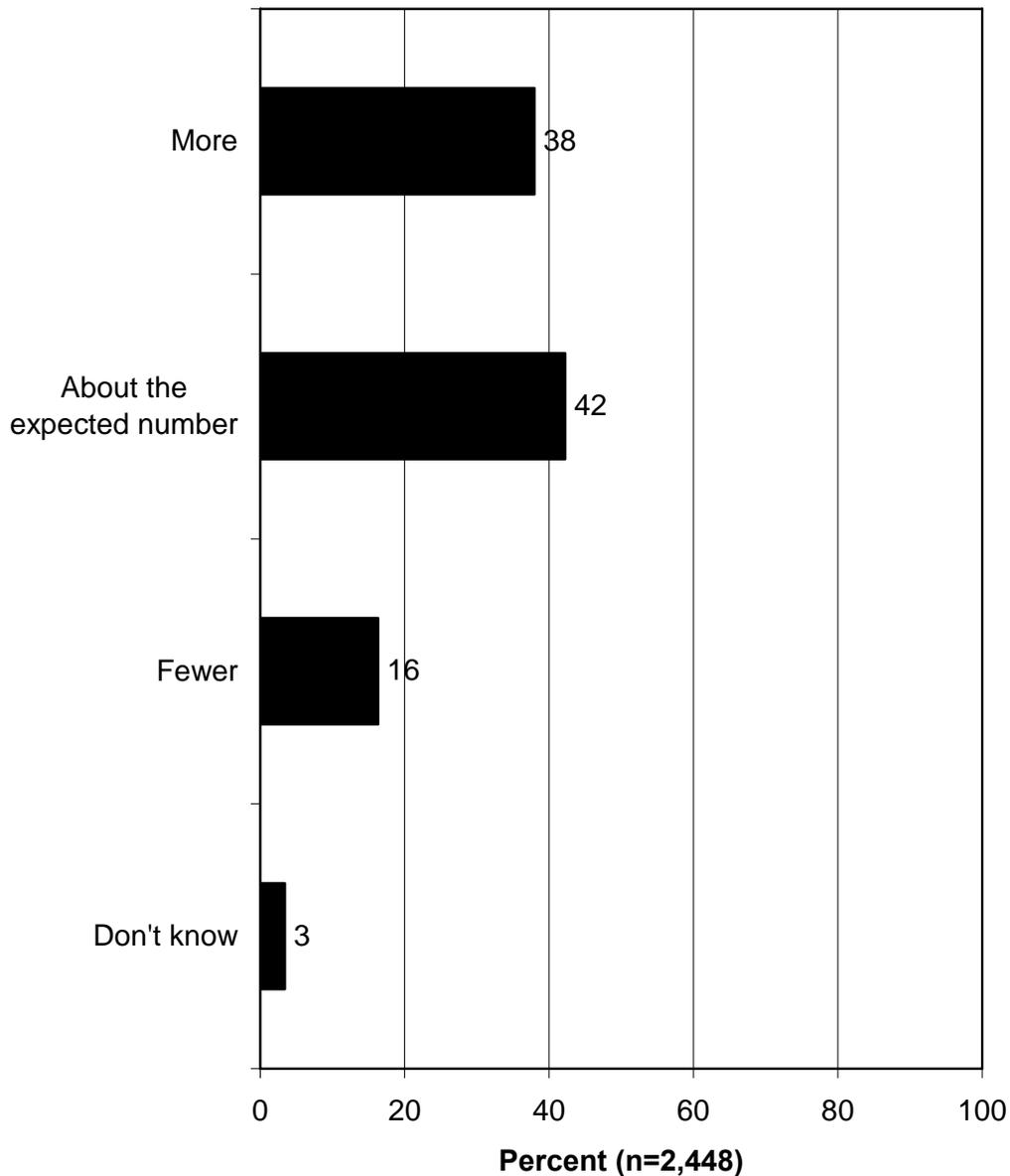
**Q54. Would you say the number of hunters in the field has increased, stayed the same, or decreased in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years? (Residents versus nonresidents.)**



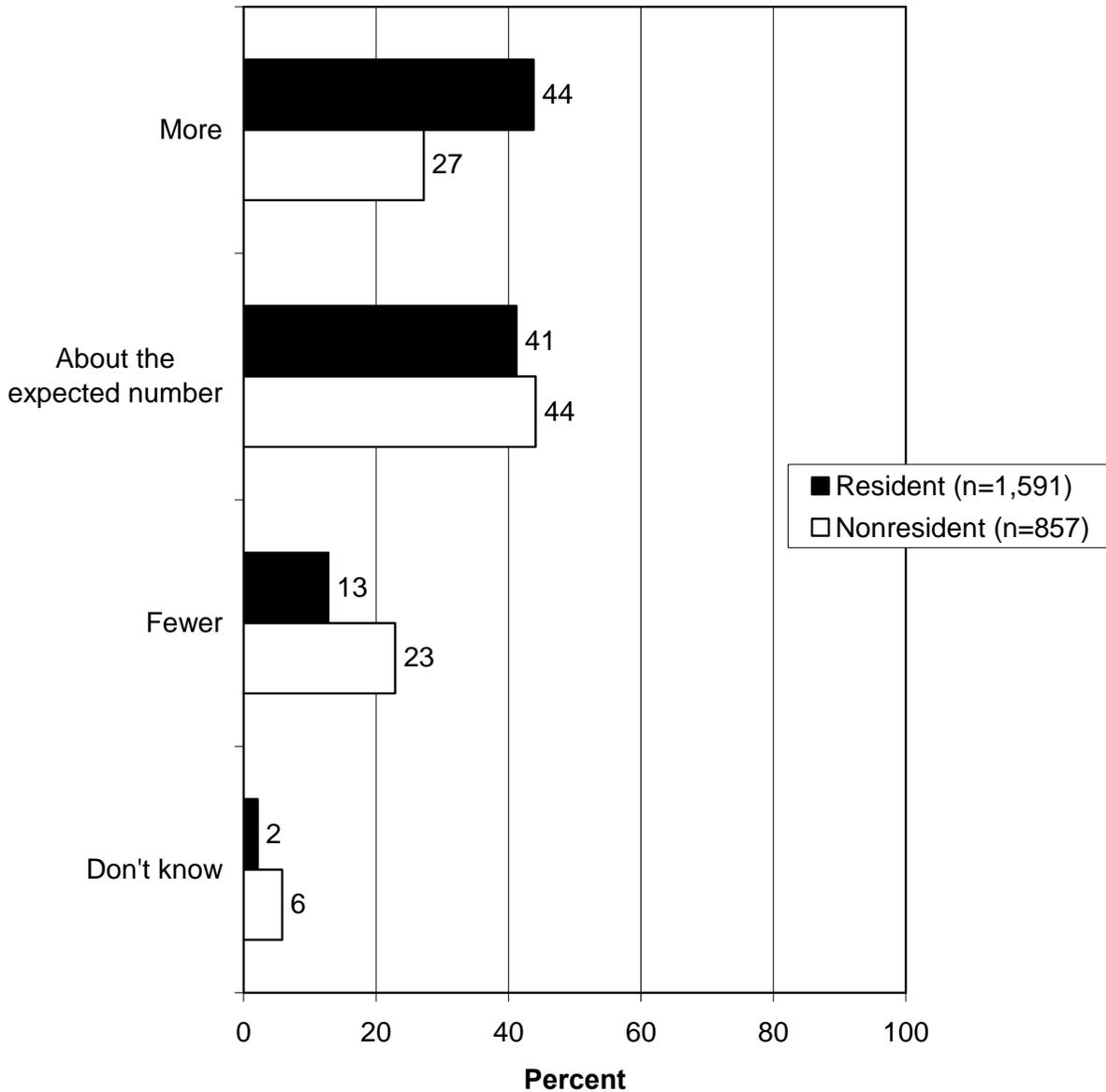
<b>Q54. Would you say the number of hunters in the field has increased, stayed the same, or decreased in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Increased	27	43	54	47	50	35	48	36	34	41
Stayed the same	39	36	29	32	29	33	38	32	29	33
Decreased	15	10	11	11	12	18	8	16	17	13
Don't know	19	11	7	10	9	14	6	16	21	13

**Q55. Would you say there were more hunters than you expected, about the number of hunters you expected, or fewer hunters than you expected in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years?**

**(Statewide: residents and nonresidents.)**

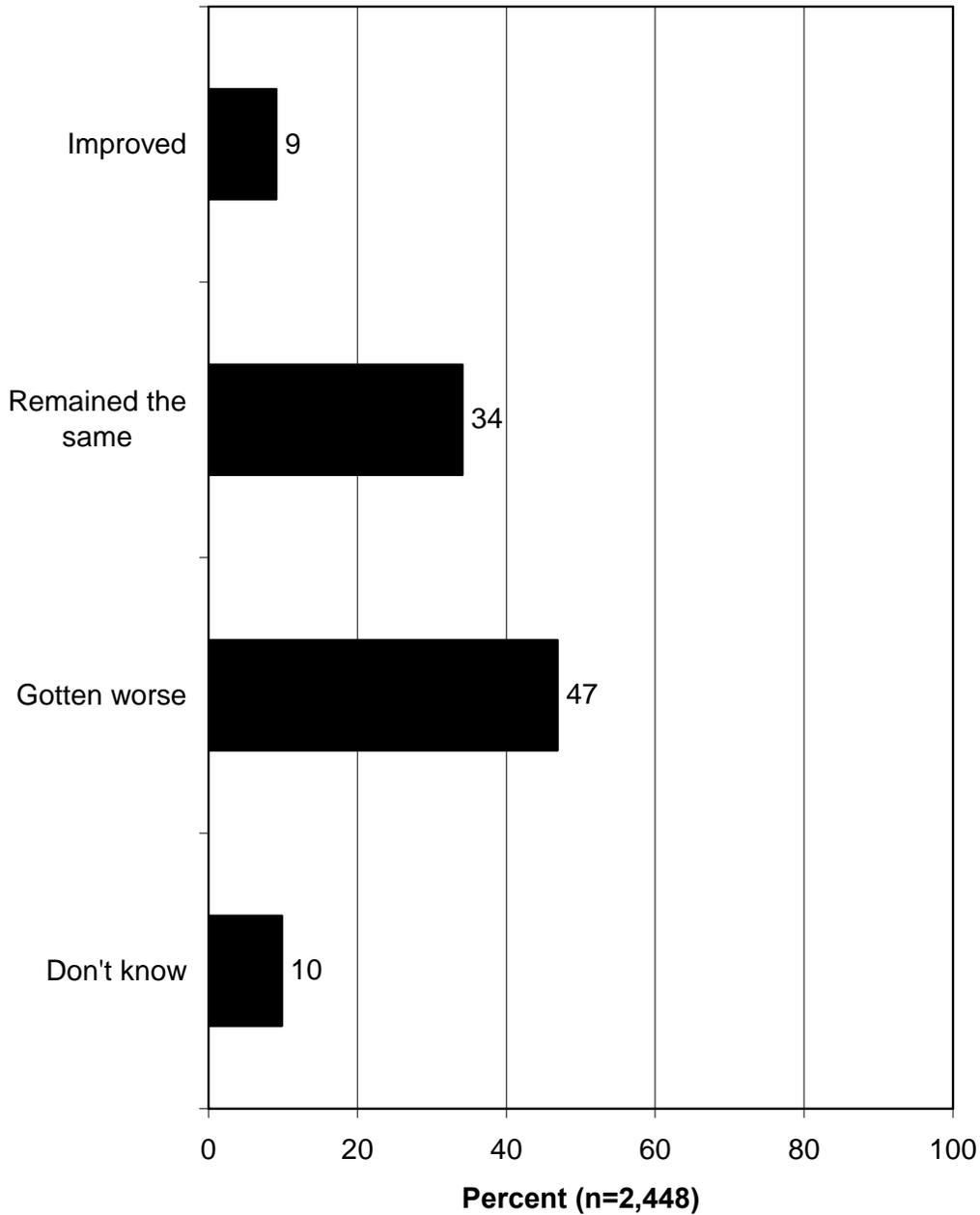


**Q55. Would you say there were more hunters than you expected, about the number of hunters you expected, or fewer hunters than you expected in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years?  
(Residents versus nonresidents.)**

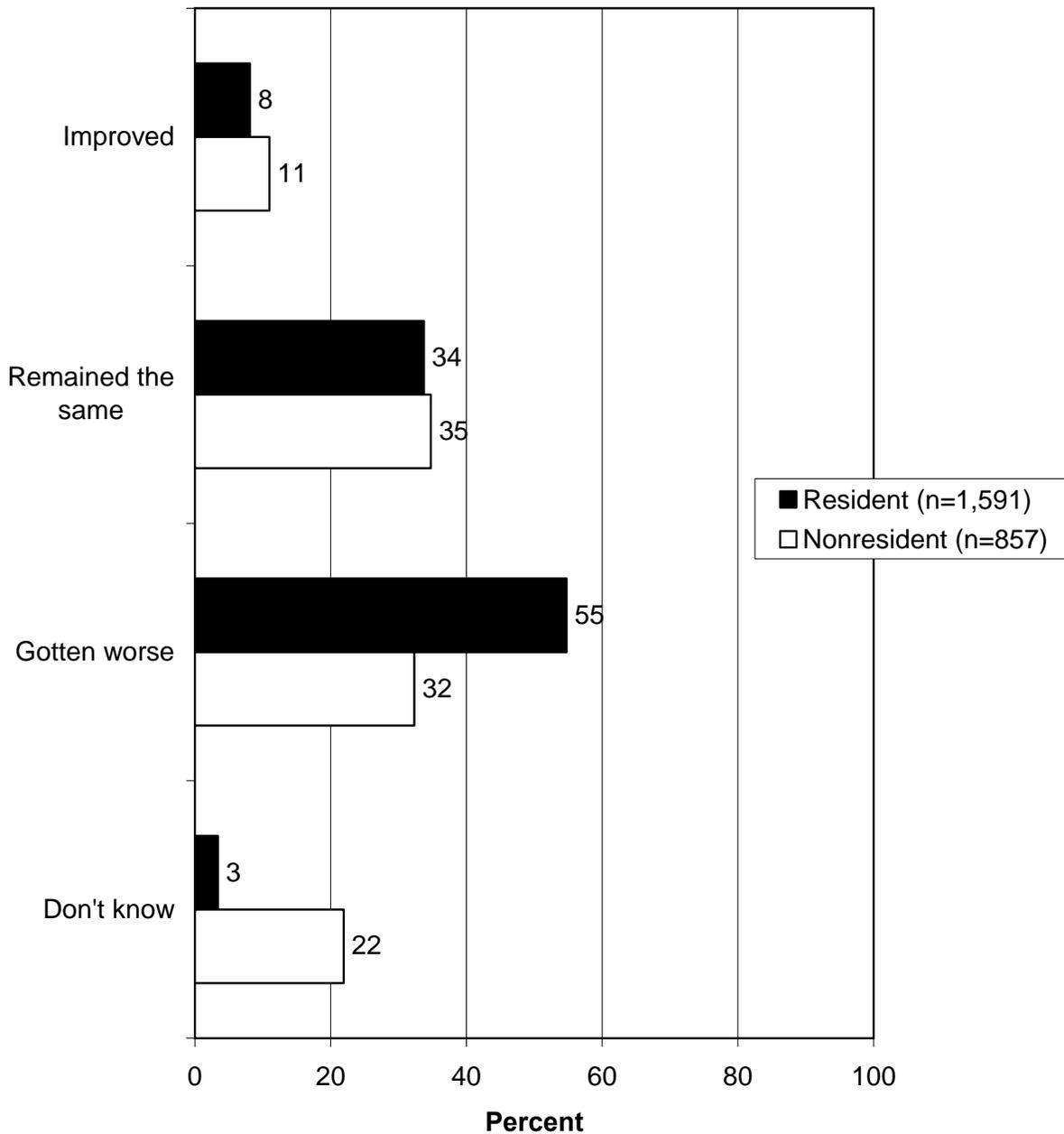


<b>Q55. Would you say there were more hunters than you expected, about the number of hunters you expected, or fewer hunters than you expected in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
More	29	37	48	40	45	36	44	33	39	38
About the expected number	46	45	36	47	41	38	42	44	39	42
Fewer	21	15	15	12	12	21	13	17	16	16
Don't know	4	3	1	2	3	4	1	5	6	3

**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Statewide: residents and nonresidents.)**

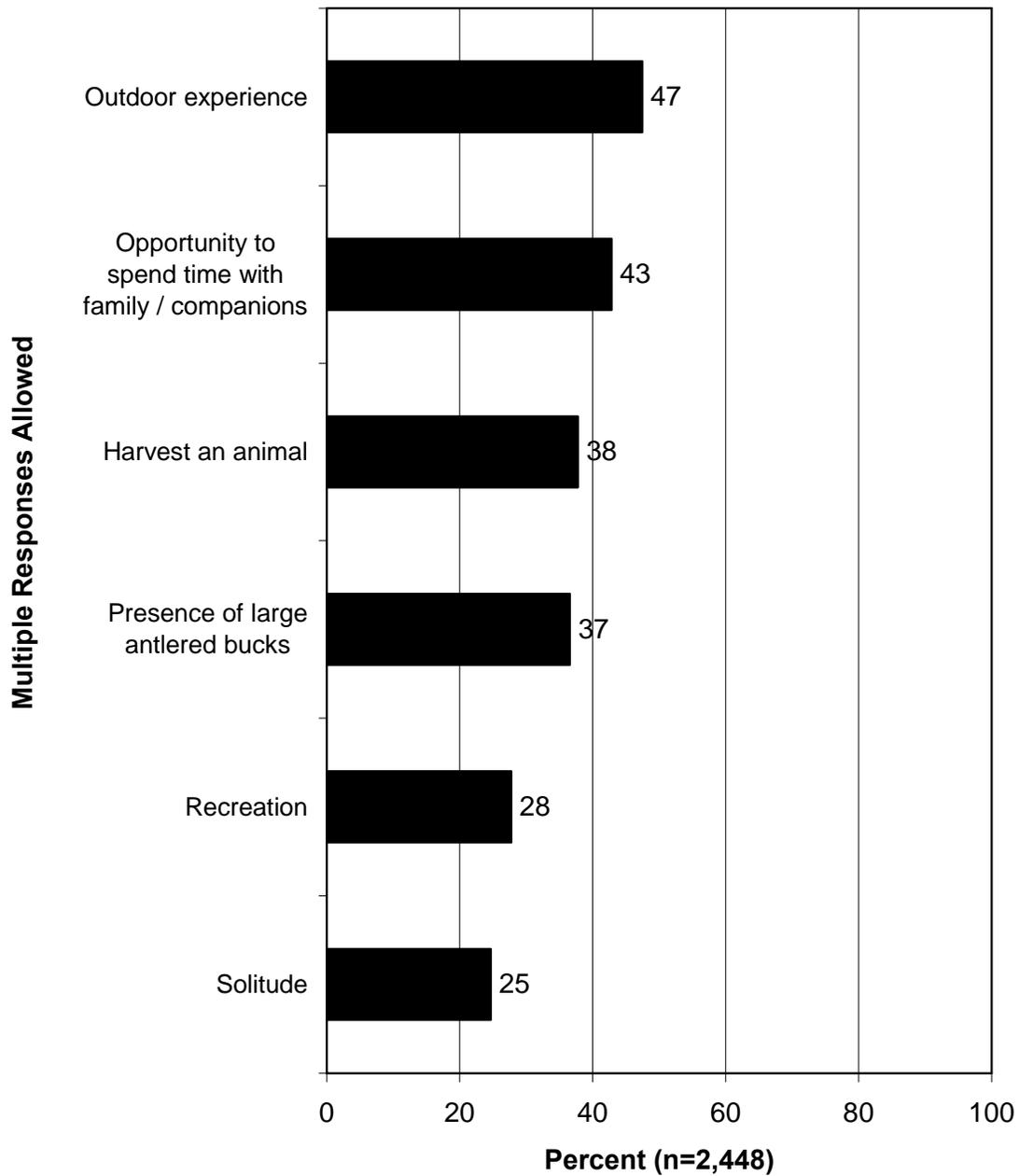


**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Residents versus nonresidents.)**

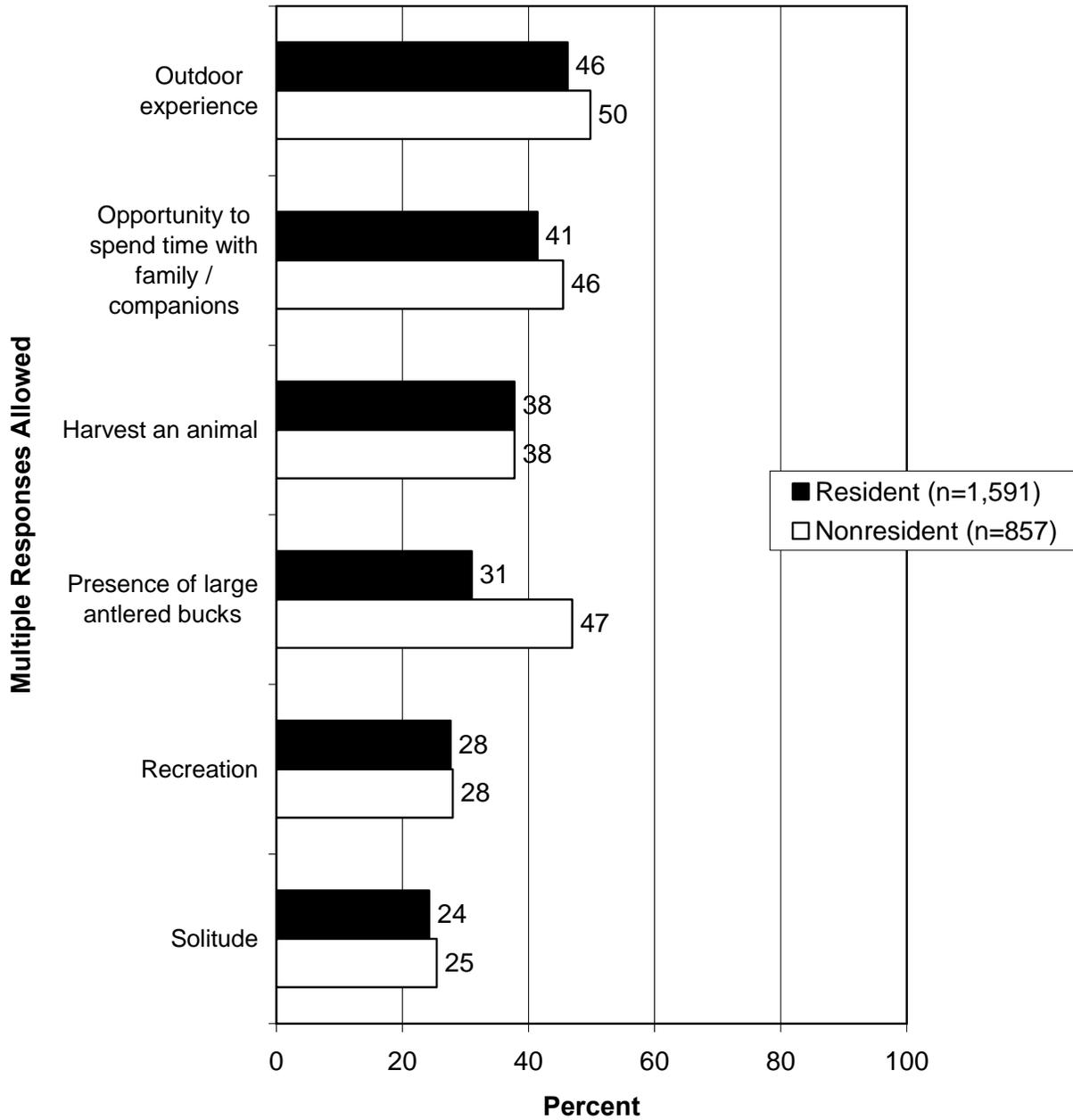


<b>Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Improved	10	10	7	7	11	9	1	12	9	9
Remained the same	30	41	28	31	36	32	34	37	32	34
Gotten worse	45	40	58	53	47	51	62	38	46	47
Don't know	15	9	8	9	6	8	4	13	13	10

**Q35. What do you look for in a quality mule deer hunt?  
(Statewide: residents and nonresidents.)**

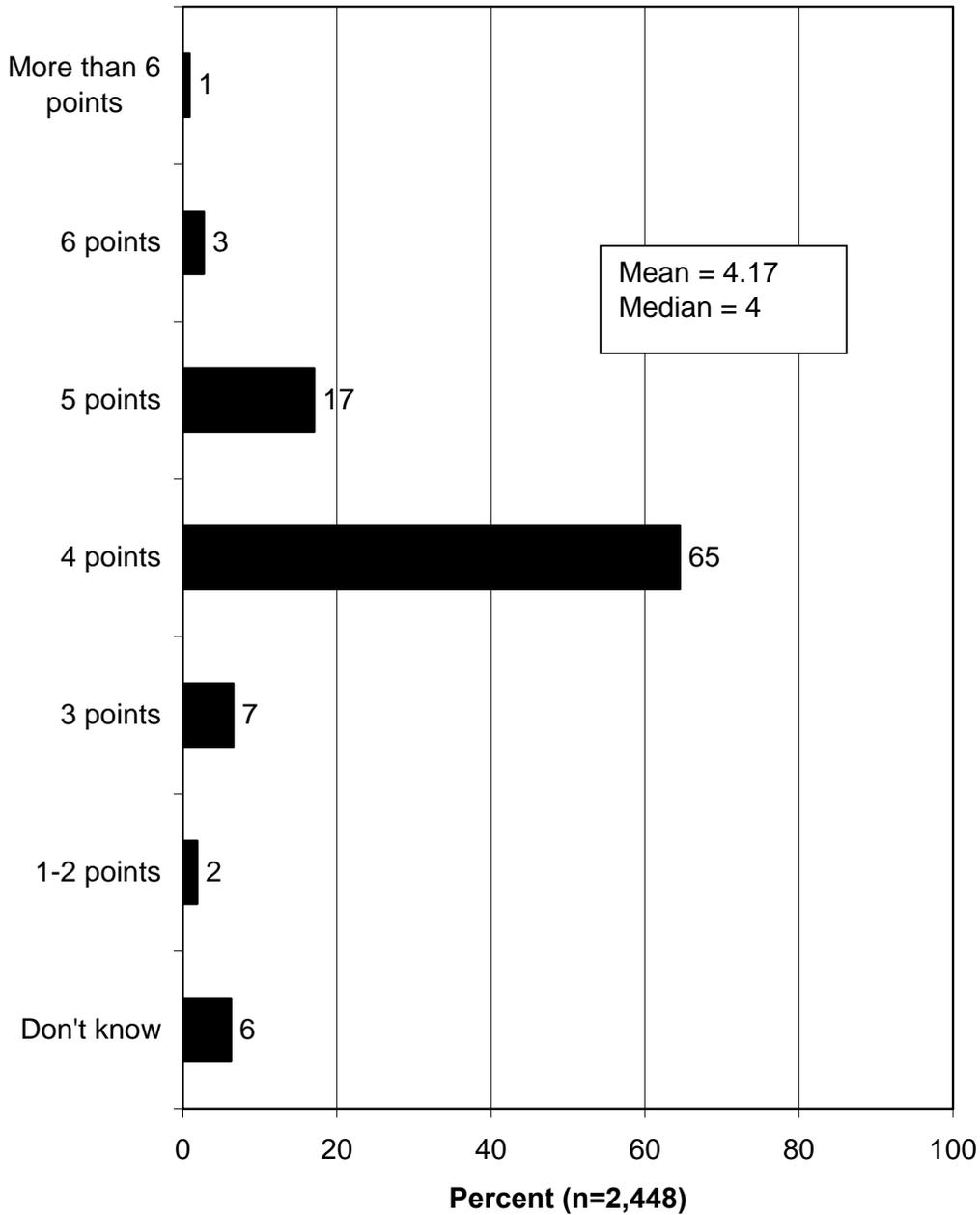


**Q35. What do you look for in a quality mule deer hunt?  
(Residents versus nonresidents.)**

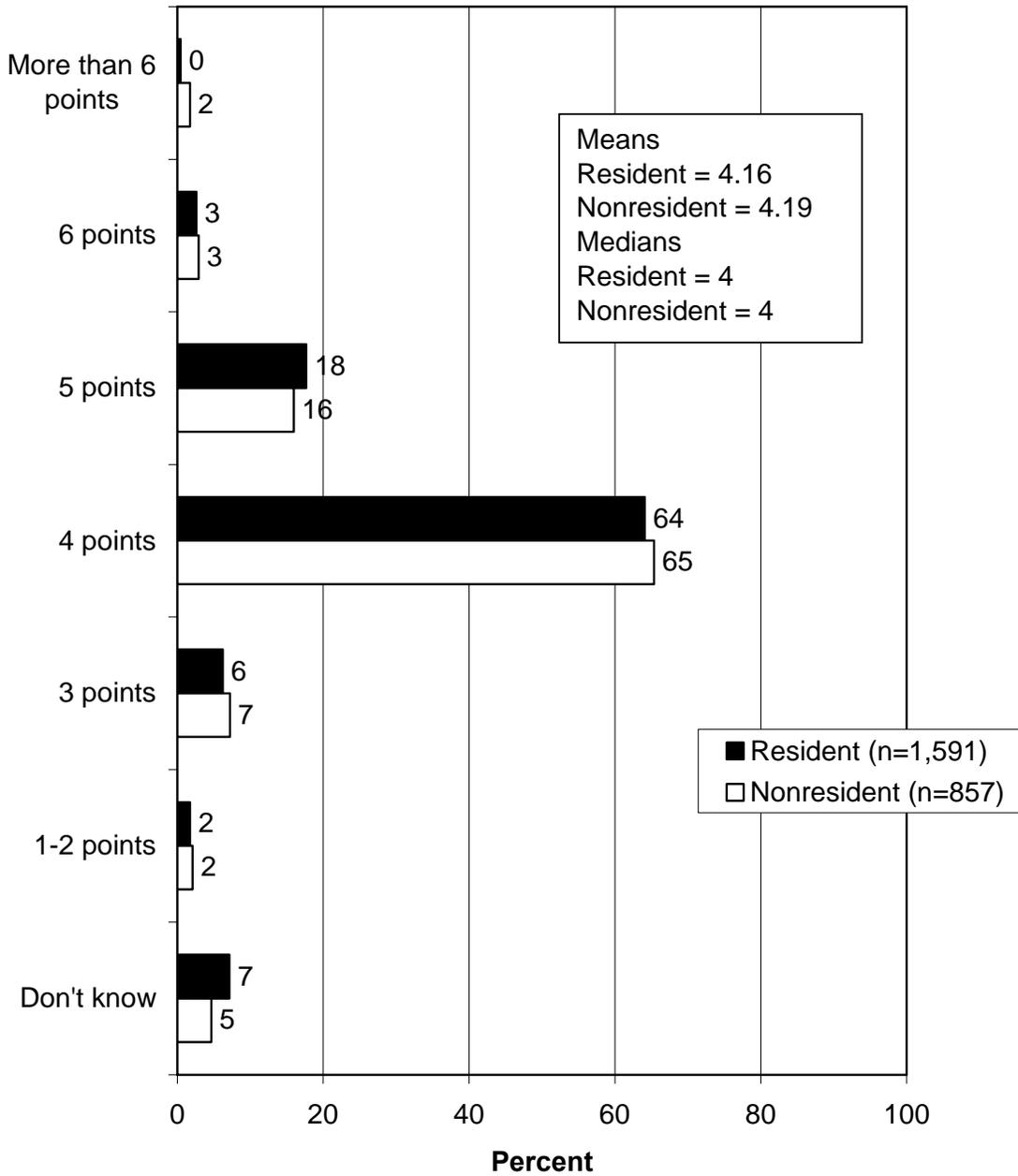


<b>Q35. What do you look for in a quality mule deer hunt?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Outdoor experience	47	44	45	49	48	51	53	49	44	47
Opportunity to spend time with family / companions	43	38	46	39	48	45	46	43	41	43
Harvest an animal	36	36	41	37	39	39	35	37	41	38
Presence of large antlered bucks	40	33	40	47	34	35	34	32	49	37
Recreation	24	25	28	29	26	31	30	29	34	28
Solitude	23	21	29	33	29	25	26	20	28	25
Presence of deer / Abundance of deer	1	2	0	1	0	0	4	1	1	1
Don't know	0	0	0	1	0	0	0	0	0	0

**Q62. What is the minimum number of points on one side that a buck should have for you to consider a deer a trophy buck?  
(Statewide: residents and nonresidents.)**

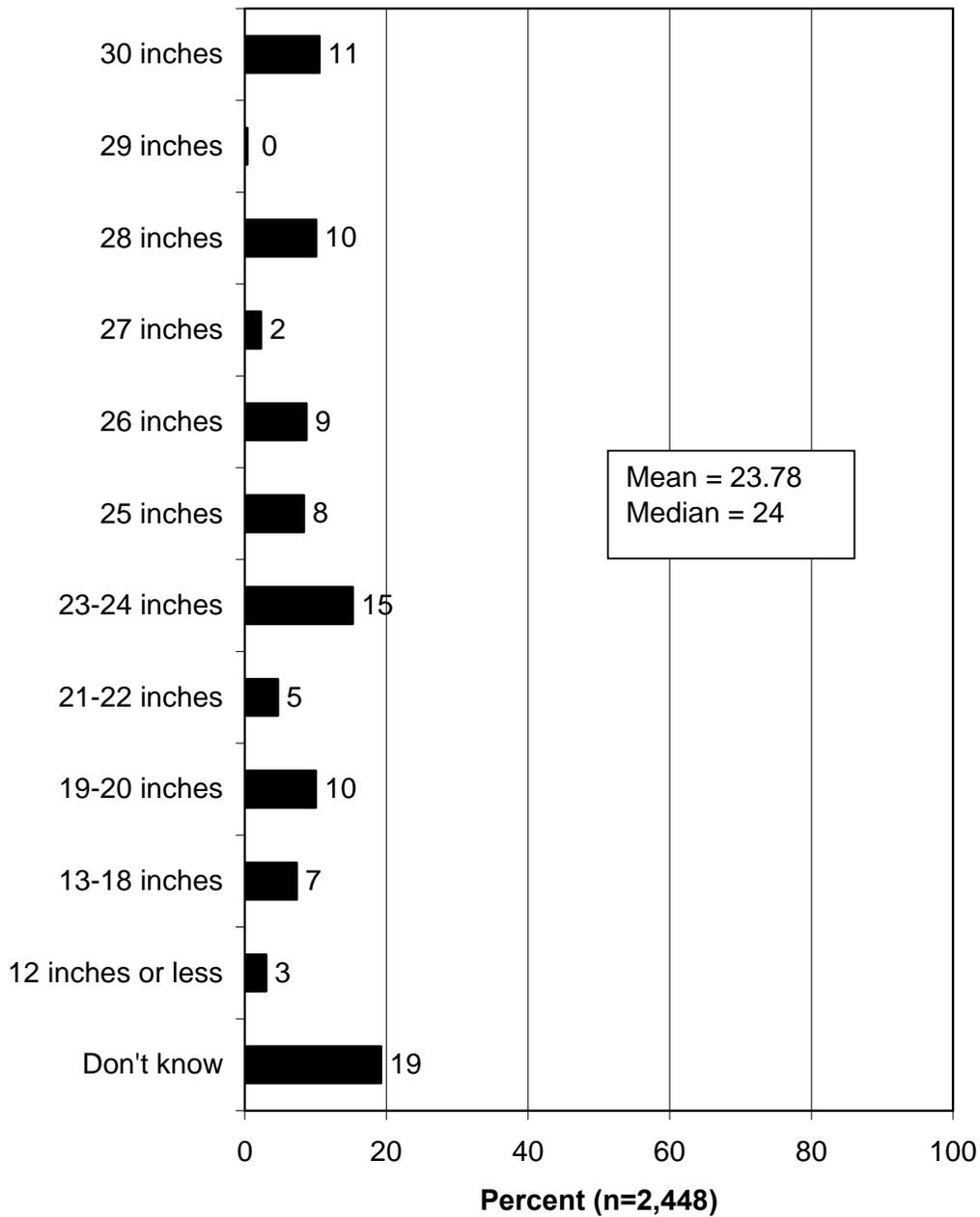


**Q62. What is the minimum number of points on one side that a buck should have for you to consider a deer a trophy buck?  
(Residents versus nonresidents.)**

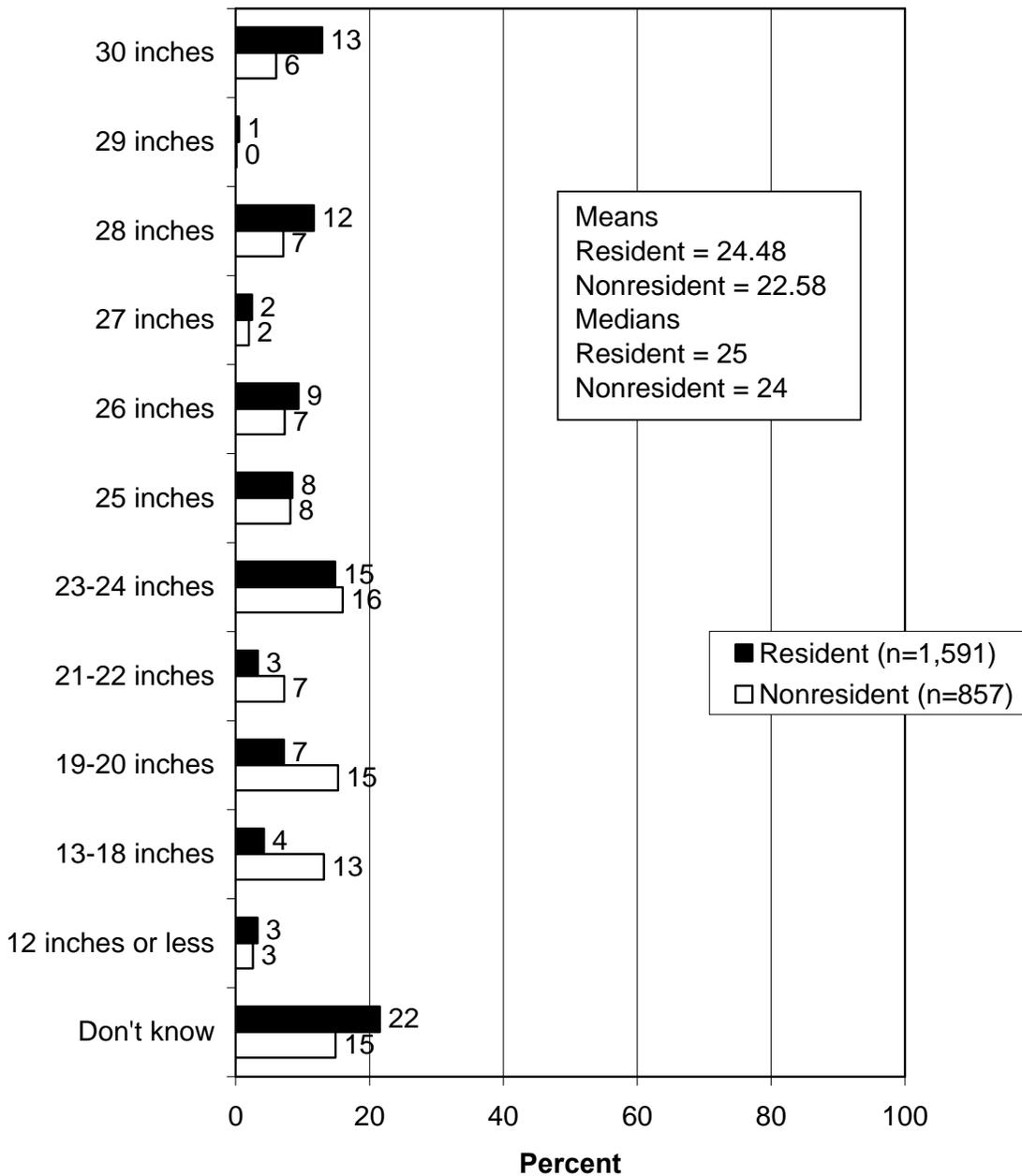




**Q63. What is the minimum antler spread, in inches, that a buck should have for you to consider a deer a trophy buck?  
(Statewide: residents and nonresidents.)**



**Q63. What is the minimum antler spread, in inches, that a buck should have for you to consider a deer a trophy buck?  
(Residents versus nonresidents.)**



<b>Q63. What is the minimum antler spread, in inches, that a buck should have for you to consider a deer a trophy buck?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
12 inches or less	3	2	4	1	7	3	3	2	3	3
13-18 inches	10	7	5	5	5	7	2	11	9	7
19-20 inches	16	12	6	6	6	8	4	14	11	10
21-22 inches	7	5	3	4	3	5	4	6	1	5
23-24 inches	15	15	14	12	14	18	11	18	17	15
25 inches	8	8	11	10	10	6	12	6	8	8
26 inches	6	9	9	16	8	7	12	8	8	9
27 inches	1	2	3	5	1	2	5	1	1	2
28 inches	8	7	15	18	14	9	12	6	12	10
29 inches	0	0	0	0	0	1	1	1	0	0
30 inches	8	9	16	12	12	10	18	7	11	11
Don't know	18	25	14	11	19	24	18	18	19	19
Mean	22.81	23.71	24.58	25.30	23.64	23.72	25.68	22.89	23.72	23.78
Median	24	24	25.5	26	25	24	26	24	24	24

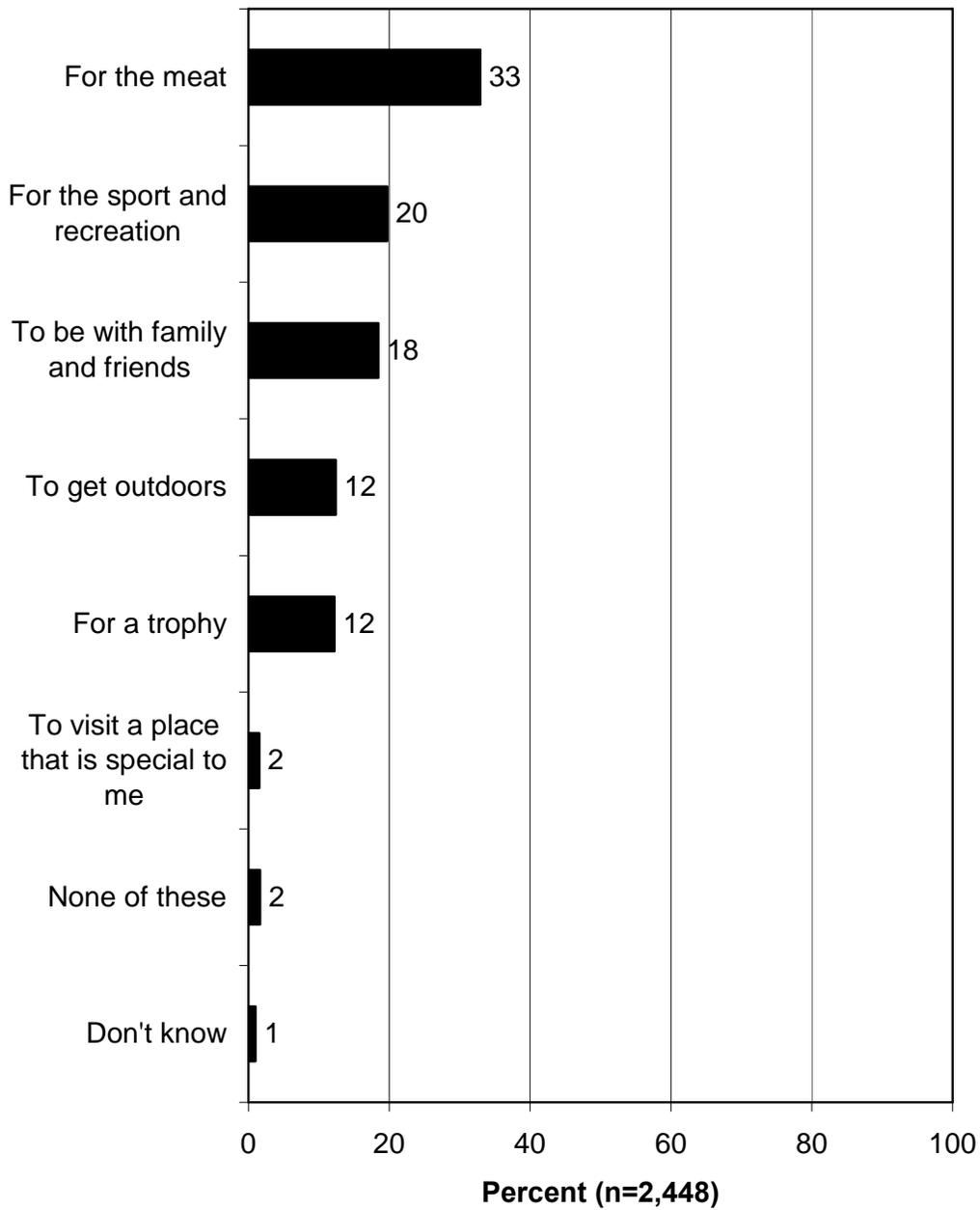
## **MOTIVATIONS AND CONSTRAINTS TO PARTICIPATION IN MULE DEER HUNTING**

- Mule deer hunters were read a list of six possible reasons for hunting mule deer, and they were asked to select their primary reason. Most commonly, they said it was for the meat (33%), the most utilitarian of reasons. (Note that this is similar to a question reported in the last section that asked respondents to indicate what they look for in a quality mule deer hunt. However, that question allowed multiple responses, and the non-utilitarian reasons were at the top of the list; the question being reported in this section asked for a single reason. This finding suggests that social and aesthetic—i.e., non-utilitarian—reasons are important, but a continual lack of harvest might eventually trump those social and aesthetic reasons.)
  - Residents are perhaps more utilitarian than are nonresidents. Residents are much more likely to say that they hunt for the meat (42% among residents, compared to 15% among nonresidents), a statistically significant difference ( $p \leq 0.001$ ).
  
- There is some latent demand for mule deer hunting, as evidenced by the 67% of mule deer hunters who say that there are reasons that they may not have hunted mule deer as much as they would have liked. In follow-up, the most common reason is social: not enough time because of family and/or work obligations (34% of those who received the follow-up question). However, lack of game (15%), not being able to draw the desired license (10%), and the cost of licenses (10%) are important reasons.
  - Two items in particular are more of a complaint among nonresidents than residents: that they could not draw the license that they wanted ( $p \leq 0.001$ ) and the cost of licenses ( $p \leq 0.001$ ).
  
- The survey read four statements to mule deer hunters and asked if they agreed or disagreed with each. Three statements were positive about mule deer hunting in Wyoming (Q59: There was enough access to hunt mule deer on private land. Q60: Public lands were marked well during mule deer hunting season. Q61: The number of bucks in the area was adequate in the past 5 years.), and one was negative (Q58: There were too many hunters in the area.). Of the four topics (amount of hunter crowding, access, marking of public lands, and amount of

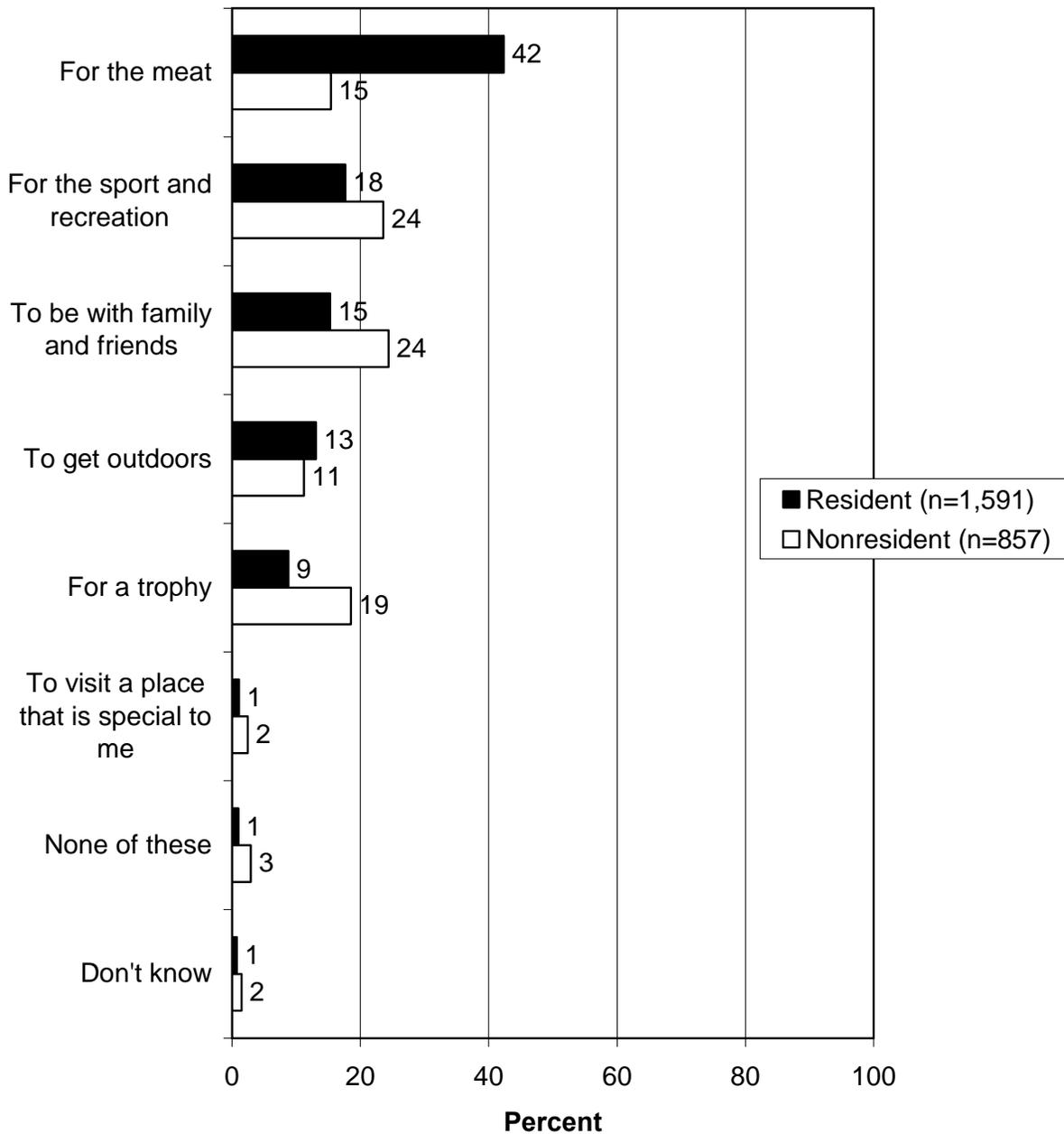
game), the amount of game was of the most concern: 49% disagreed that the number of bucks was adequate in the area in which they most often hunted mule deer in the past 5 years.

- Regarding the negative statement, opinion was split: 43% of mule deer hunters agreed that there were too many hunters in the area in which they most often hunted, while 51% disagreed.
  - Residents were more likely to agree than were nonresidents ( $p \leq 0.001$ ).
- Slightly more agreed than disagreed (46% to 32%) that there was enough access to hunt mule deer on private land in the area in which they most often hunted mule deer.
  - Residents were *less* likely to agree than were nonresidents ( $p \leq 0.001$ ).
- Likewise, slightly more agreed than disagreed (58% to 30%) that public lands were marked well during mule deer hunting season.
  - Residents were more likely to agree than were nonresidents ( $p \leq 0.001$ ).
- Finally, opinion was almost exactly evenly split on whether they agreed (47%) or disagreed (49%) that the number of bucks in the area was adequate in the past 5 years in the hunt area in which they most often hunted.
  - Residents were *less* likely to agree than were nonresidents ( $p \leq 0.001$ ).

**Q31. Thinking about when you've hunted mule deer, what is your most important reason for hunting?  
(Statewide: residents and nonresidents.)**

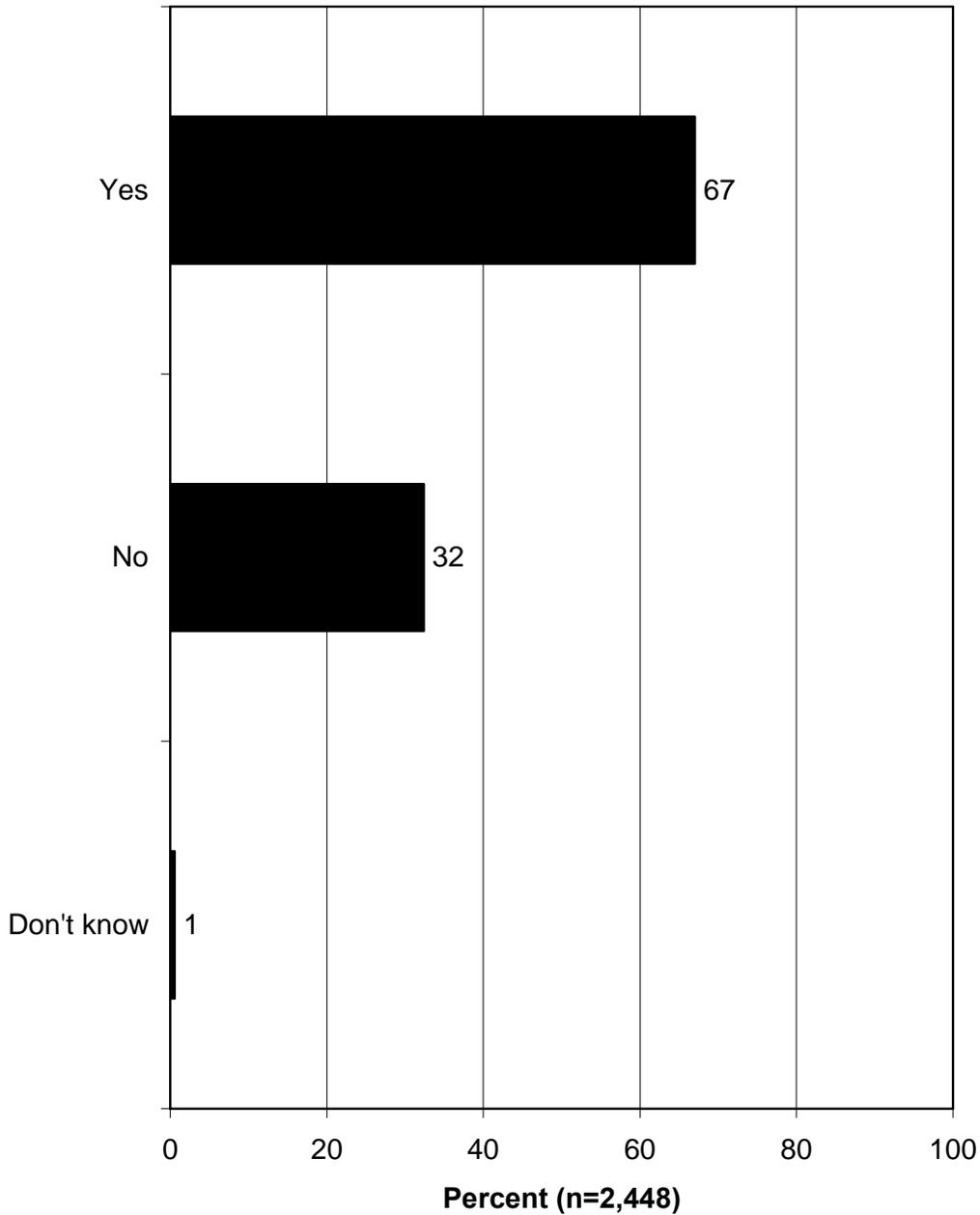


**Q31. Thinking about when you've hunted mule deer, what is your most important reason for hunting?  
(Residents versus nonresidents.)**

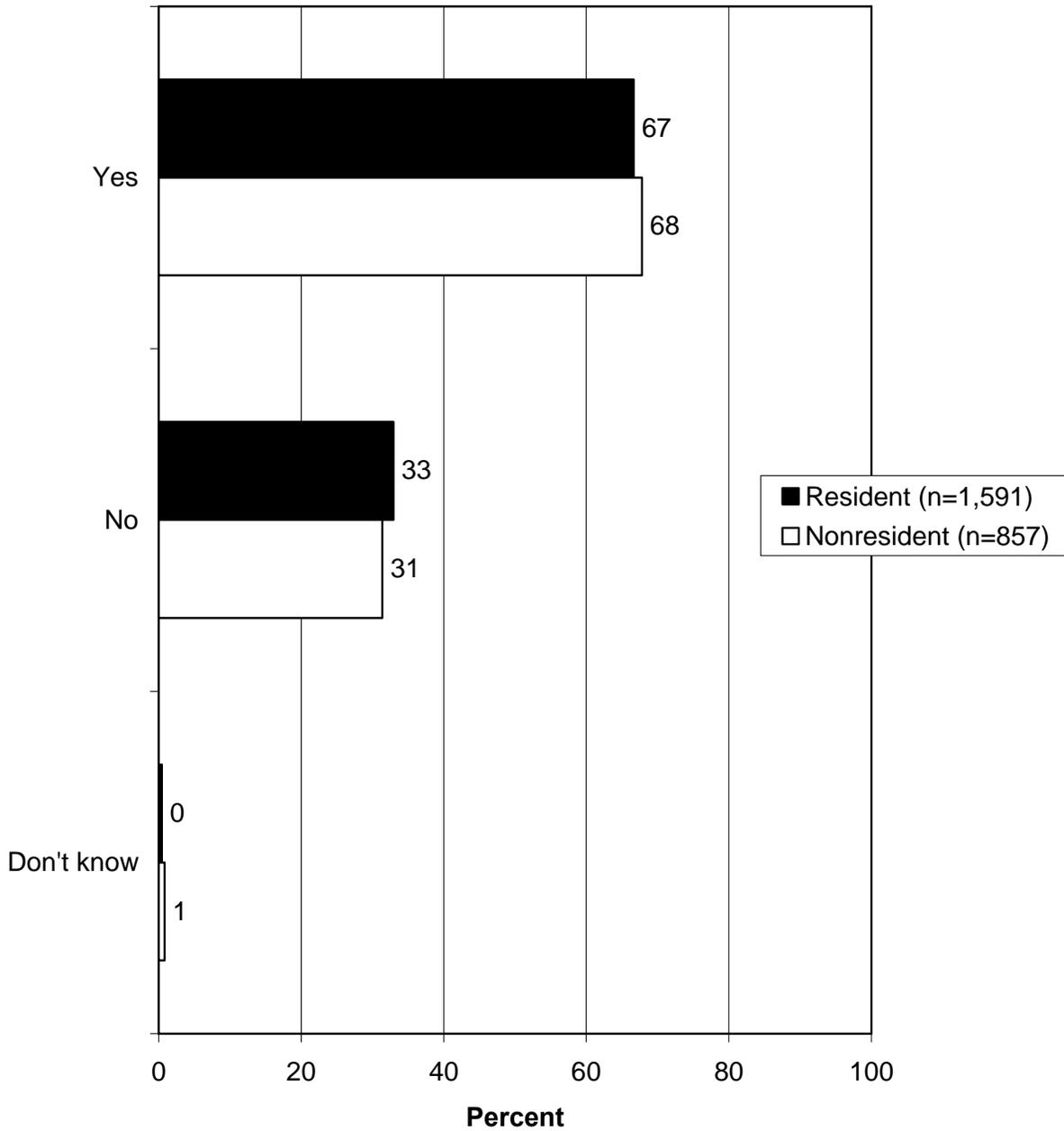


<b>Q31. Thinking about when you've hunted mule deer, what is your most important reason for hunting?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
For the meat	25	38	34	25	38	36	42	29	24	33
For the sport and recreation	17	19	20	20	16	20	12	25	20	20
To be with family and friends	26	16	21	16	17	18	15	16	23	18
To get outdoors	14	12	11	11	18	11	15	10	15	12
For a trophy	13	11	13	23	9	9	12	12	14	12
To visit a place that is special to me	1	2	1	1	1	2	1	2	1	2
None of these	2	1	0	3	0	2	1	3	3	2
Don't know	1	1	1	1	0	2	1	1	0	1

**Q37. Are there any reasons you may not have hunted mule deer in Wyoming as much as you would have liked in the past 5 years?  
(Statewide: residents and nonresidents.)**

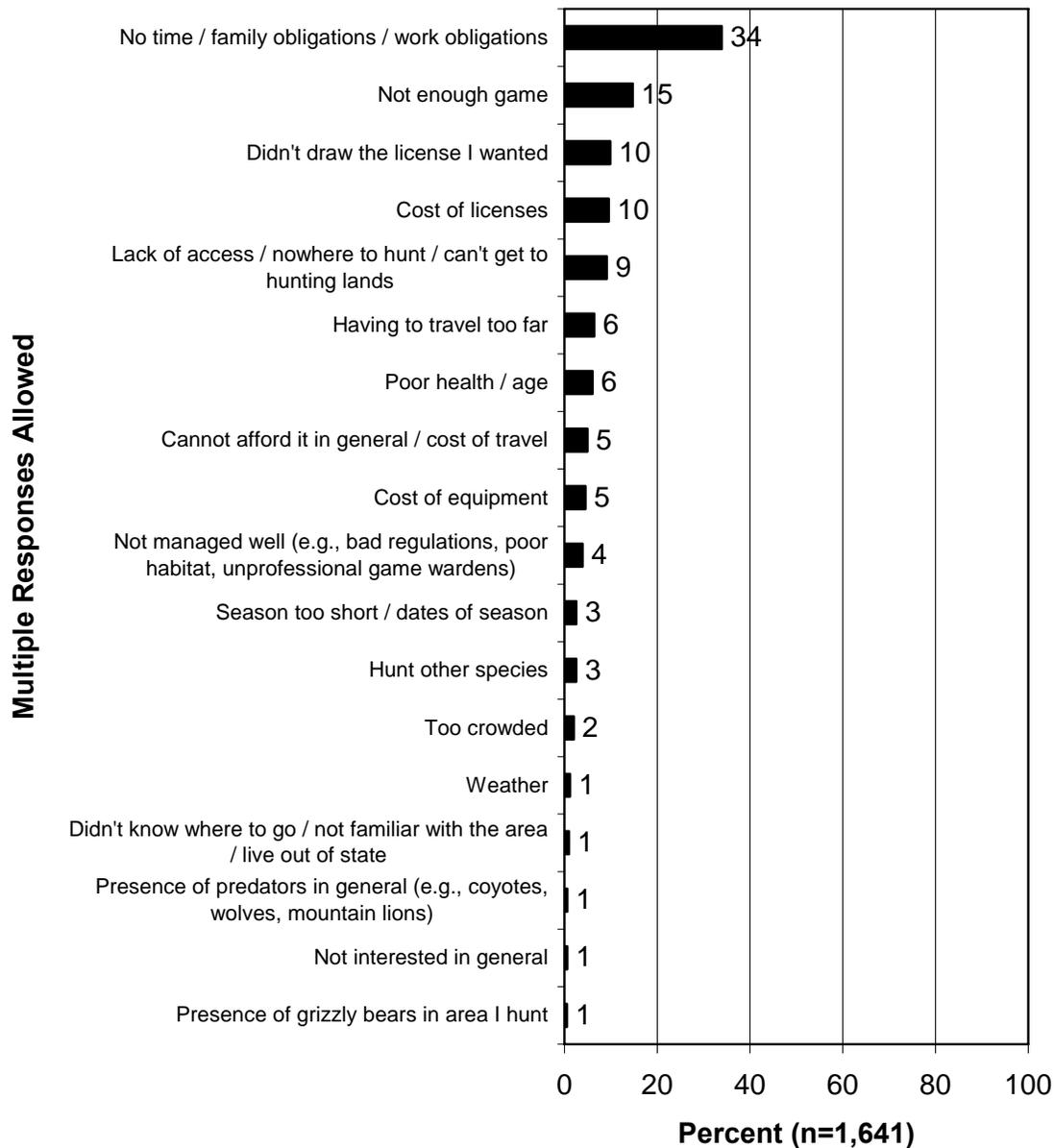


**Q37. Are there any reasons you may not have hunted mule deer in Wyoming as much as you would have liked in the past 5 years?  
(Residents versus nonresidents.)**

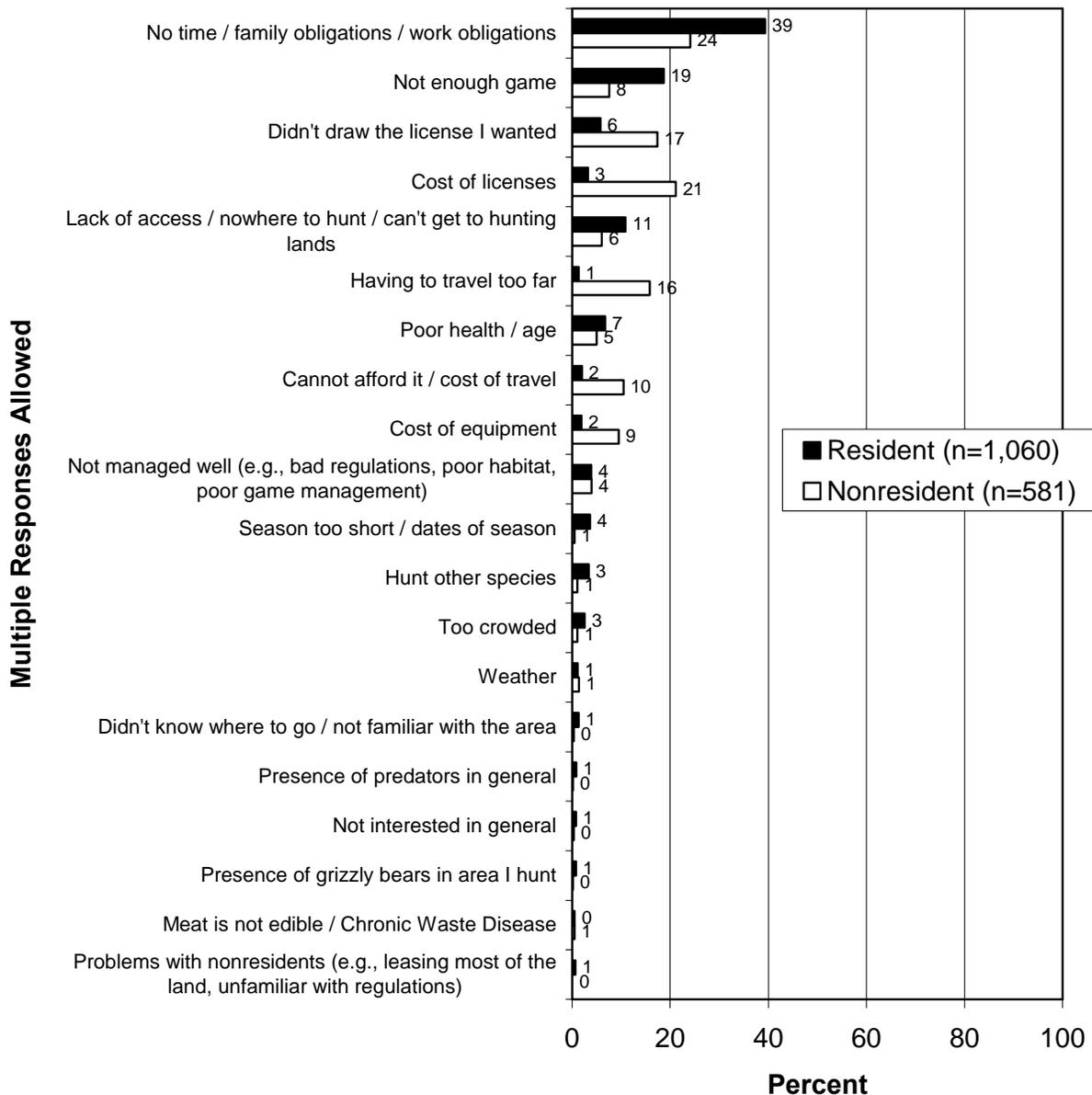


<b>Q37. Are there any reasons you may not have hunted mule deer in Wyoming as much as you would have liked in the past 5 years?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Yes	63	62	73	74	71	72	65	64	64	67
No	36	38	27	26	29	27	35	34	35	32
Don't know	1	0	0	1	0	1	0	1	1	1

**Q40. What are the reasons you did not hunt mule deer in Wyoming as much as you would have liked in the past 5 years? (Asked of those who had reasons why they may not have hunted mule deer in Wyoming as much as they would have liked in the past 5 years.)  
(Statewide: residents and nonresidents.)**



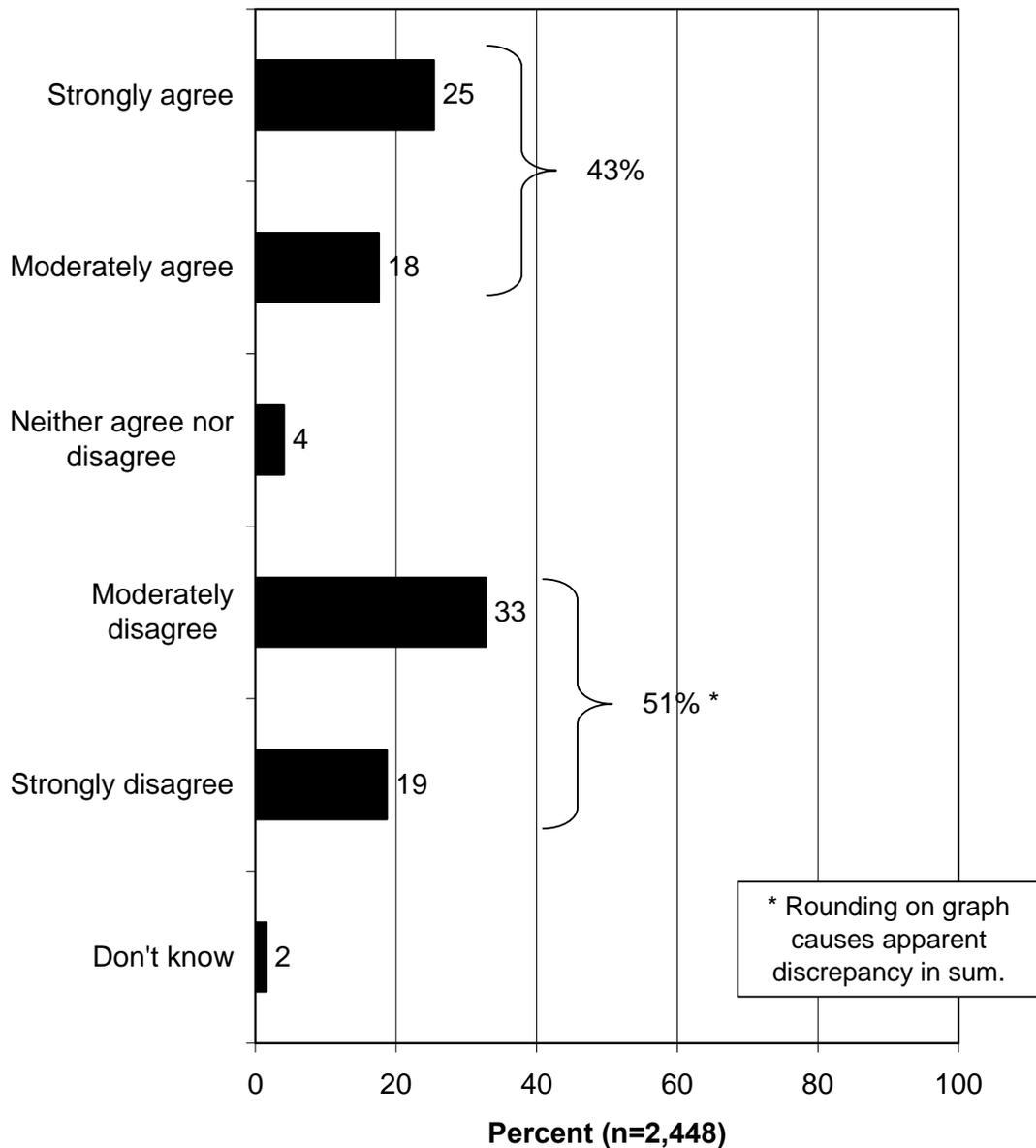
**Q40. What are the reasons you did not hunt mule deer in Wyoming as much as you would have liked in the past 5 years? (Asked of those who had reasons why they may not have hunted mule deer in Wyoming as much as they would have liked in the past 5 years.)  
(Residents versus nonresidents.)**



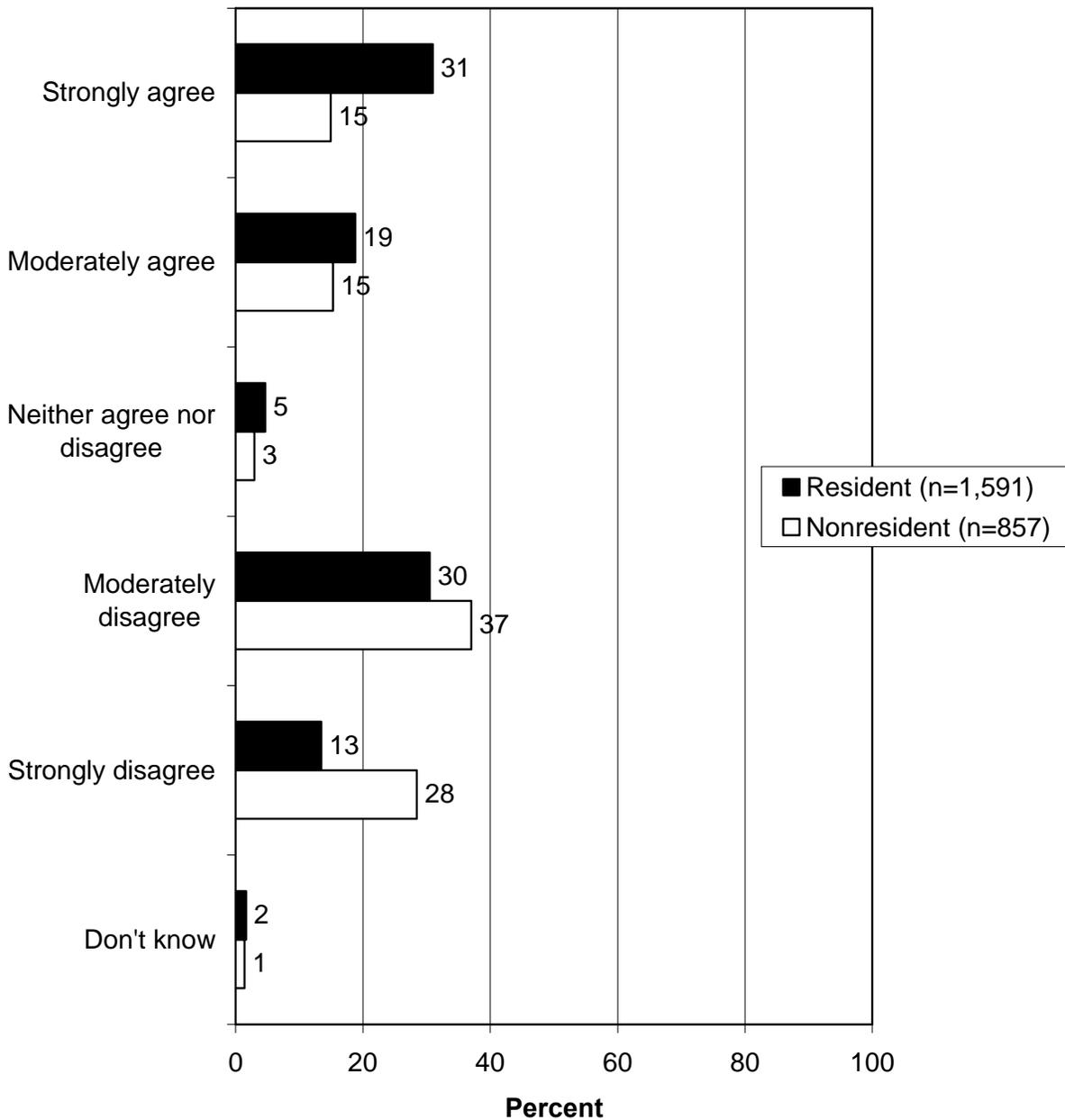
**Q40. What are the reasons you did not hunt mule deer in Wyoming as much as you would have liked in the past 5 years? (Asked of those who had reasons why they may not have hunted mule deer in Wyoming as much as they would have liked in the past 5 years.)**

	Casper (n=186)	Cody (n=280)	Green River (n=233)	Jackson (n=123)	Lander (n=153)	Laramie (n=234)	Pinedale (n=73)	Sheridan (n=283)	Don't know (n=76)	Total
No time / family obligations / work obligations	36	34	36	40	35	32	29	32	29	34
Not enough game	8	12	18	15	16	25	22	10	11	15
Didn't draw the license I wanted	11	13	15	10	8	4	12	6	13	10
Cost of licenses	15	12	5	4	5	9	4	14	11	10
Lack of access / nowhere to hunt / can't get to hunting lands	7	7	8	4	6	12	5	16	8	9
Having to travel too far	11	6	4	4	5	8	1	8	5	6
Poor health / age	7	7	5	7	7	5	10	4	7	6
Cannot afford it / cost of travel / of the trip / in general	6	5	3	5	5	5	0	7	3	5
Cost of equipment	6	6	1	3	4	4	3	7	4	5
Not managed well (e.g., bad regulations, poor habitat, unprofessional game wardens, poor game management)	4	3	4	2	5	4	4	2	9	4
Season too short / dates of season	3	1	3	4	4	1	8	2	3	3
Hunt other species	1	4	1	1	7	2	1	4	1	3
Too crowded	3	1	4	2	3	1	1	2	1	2
Weather	0	1	1	2	1	1	3	1	1	1
Didn't know where to go / not familiar with the area / live out of state	1	1	1	1	1	2	1	0	0	1
Presence of predators in general (e.g., coyotes, wolves, mountain lions)	1	1	0	2	1	0	1	1	0	1
Not interested in general	0	0	0	1	2	0	1	0	1	1
Presence of grizzly bears in area I hunt	0	0	0	1	3	0	1	0	1	1
Meat is not edible / Chronic Waste Disease	2	0	0	0	1	1	0	0	1	0
Problems with nonresidents (e.g., leasing most of the land, unfamiliar with regulations)	1	0	1	0	1	0	0	0	1	0
No one to go with	0	0	0	0	1	1	0	0	0	0
Have enough meat	0	1	1	0	0	0	0	0	0	0
Other	1	1	1	1	1	1	0	1	3	1
Don't know	1	1	0	2	1	1	1	0	1	1

**Q58. There were too many hunters in the area. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)**  
**(Statewide: residents and nonresidents.)**



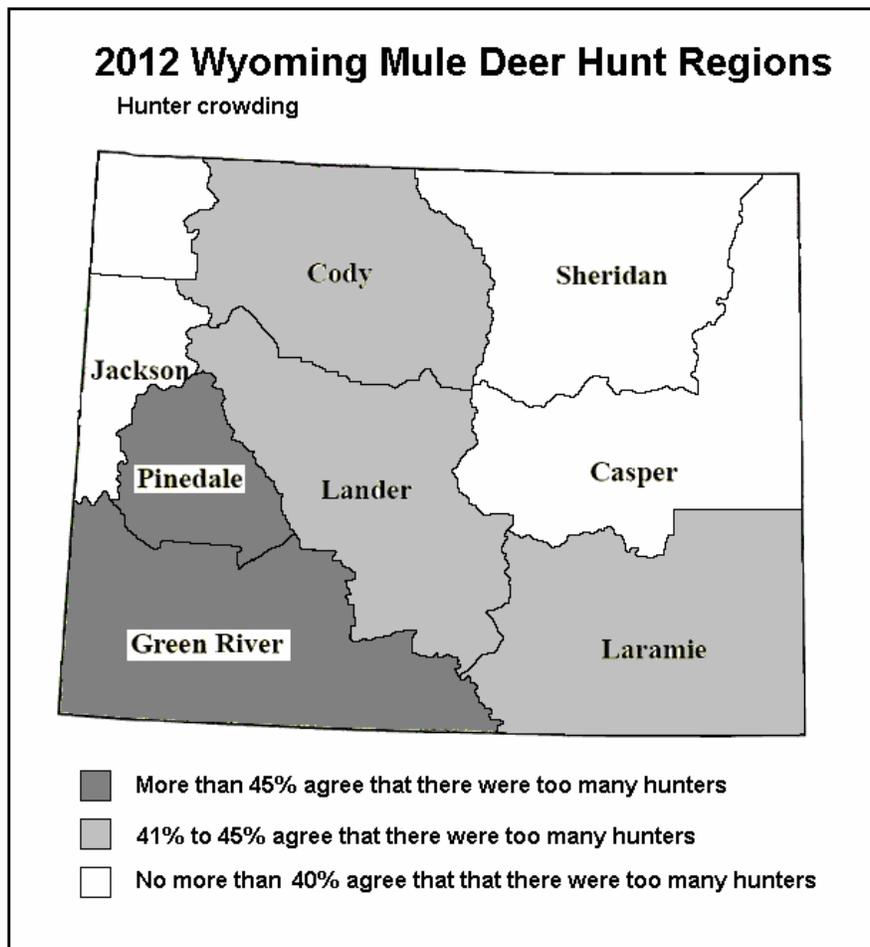
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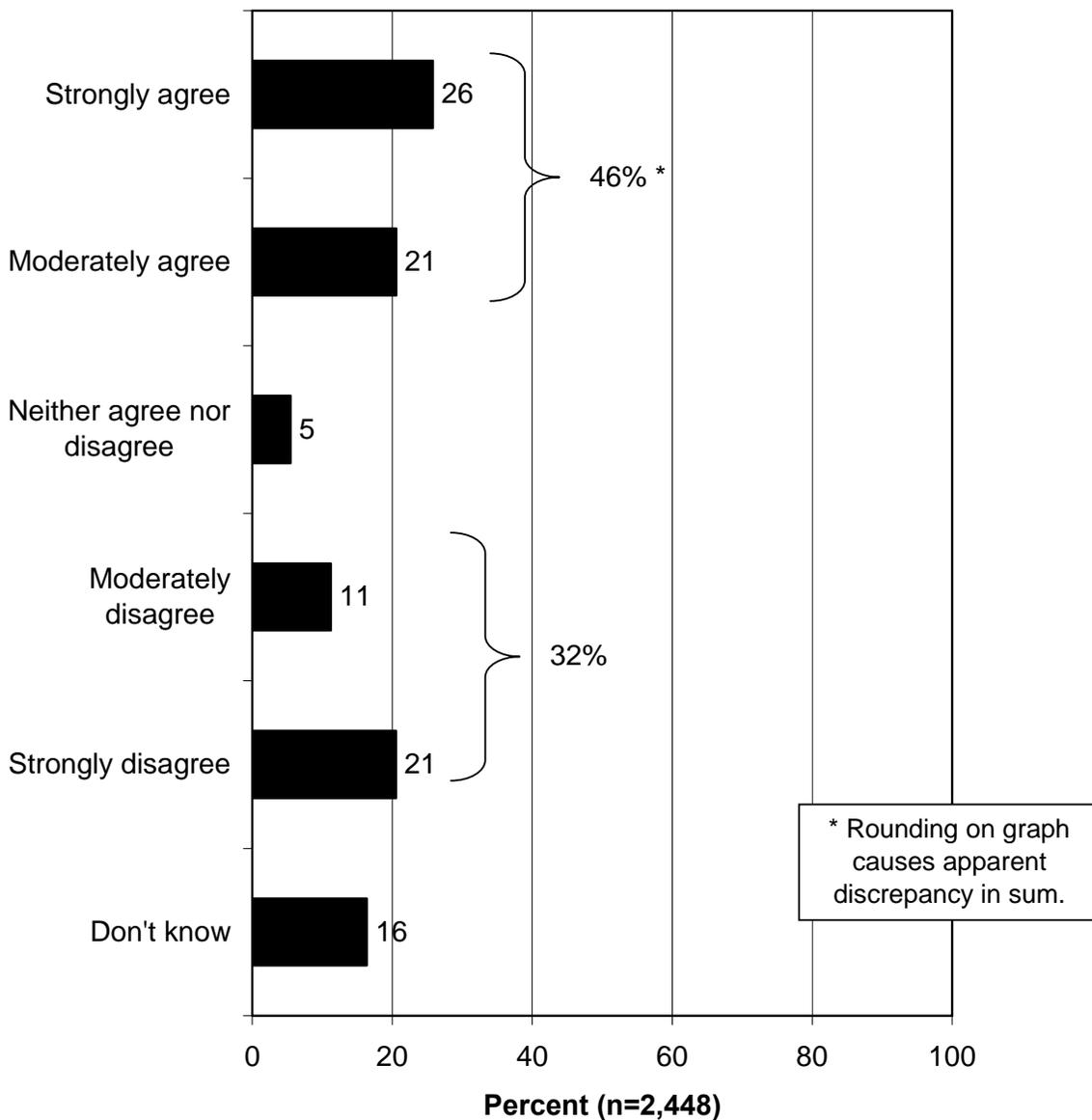
**Q58. There were too many hunters in the area. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)**

	Casper (n=296)	Cody (n=453)	Green River (n=320)	Jackson (n=167)	Lander (n=216)	Laramie (n=323)	Pinedale (n=113)	Sheridan (n=441)	Don't know (n=119)	Total
Strongly agree	19	23	36	24	31	24	27	22	29	25
Moderately agree	15	21	25	16	15	17	19	15	11	18
Neither agree nor disagree	2	5	3	7	6	4	4	4	1	4
Moderately disagree	42	33	23	39	33	35	29	30	33	33
Strongly disagree	22	17	10	13	16	17	19	28	23	19
Don't know	1	2	2	1	0	3	1	1	3	2

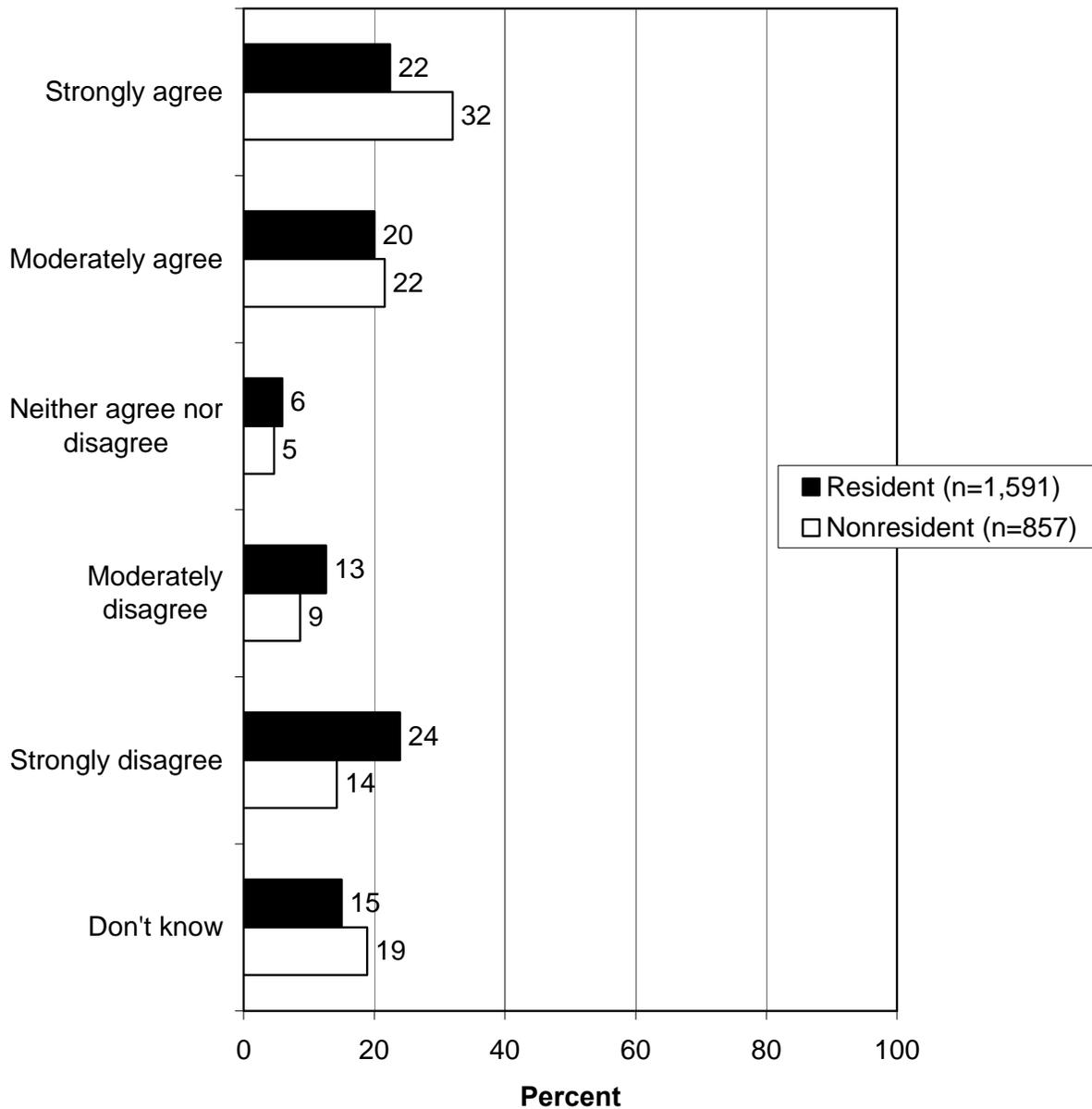
Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.



**Q59. There was enough access to hunt mule deer on private land. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)**  
**(Statewide: residents and nonresidents.)**



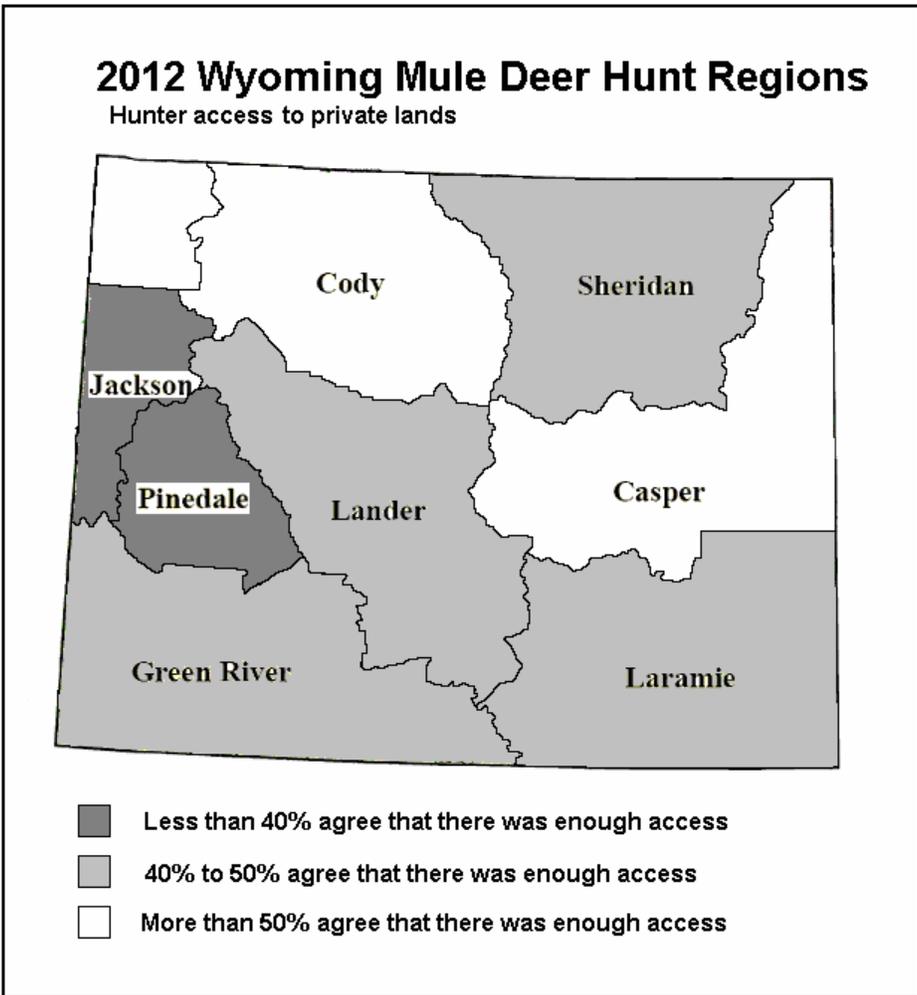
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**(Residents versus nonresidents.)**



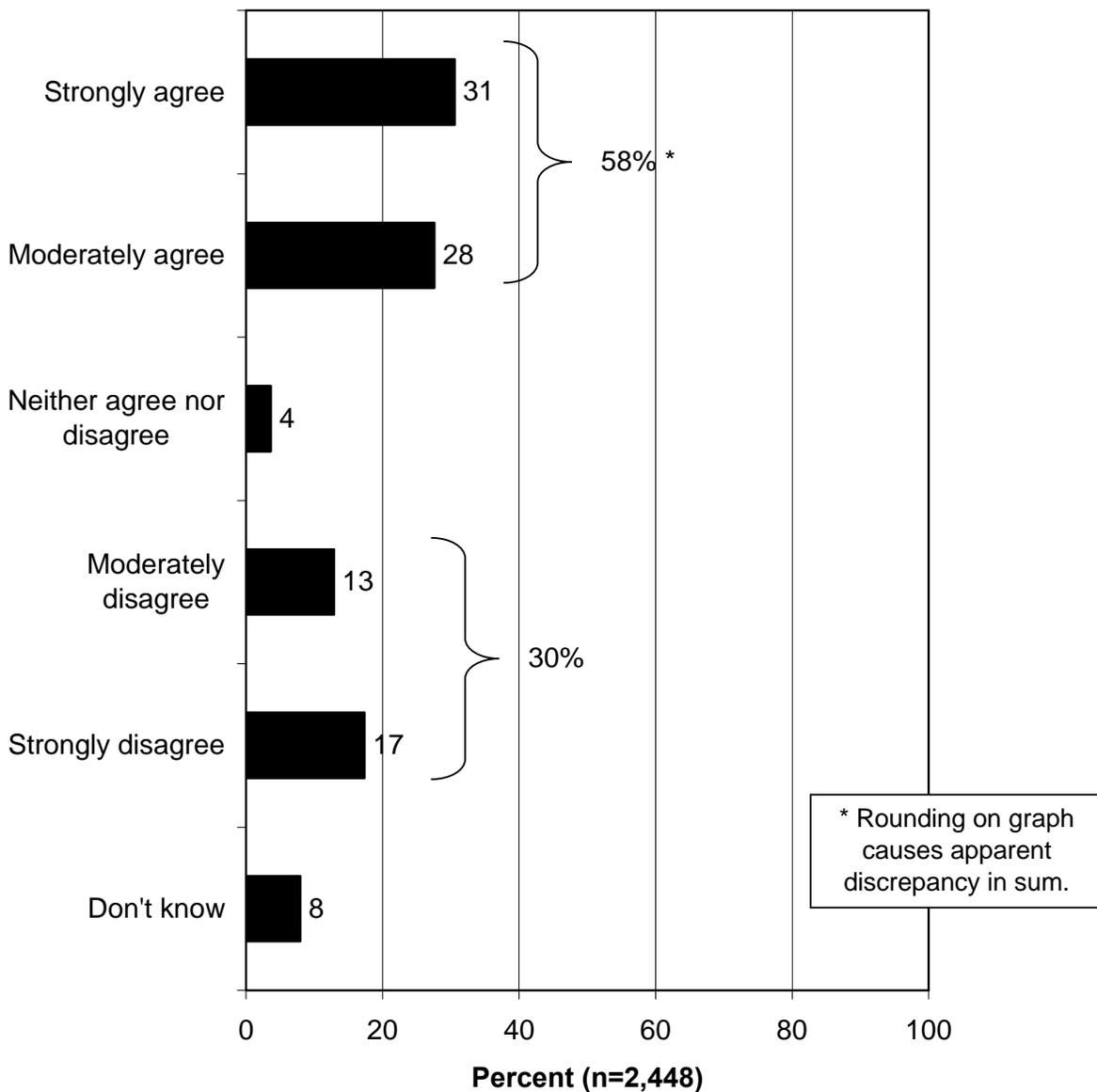
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	Casper (n=296)	Cody (n=453)	Green River (n=320)	Jackson (n=167)	Lander (n=216)	Laramie (n=323)	Pinedale (n=113)	Sheridan (n=441)	Don't know (n=119)	Total
Strongly agree	35	29	22	13	25	22	17	28	29	26
Moderately agree	23	23	19	17	23	20	9	20	26	21
Neither agree nor disagree	2	5	8	13	7	4	9	4	3	5
Moderately disagree	8	11	12	8	17	13	16	10	8	11
Strongly disagree	19	21	19	15	13	25	20	27	15	21
Don't know	13	11	20	34	15	17	29	11	18	16

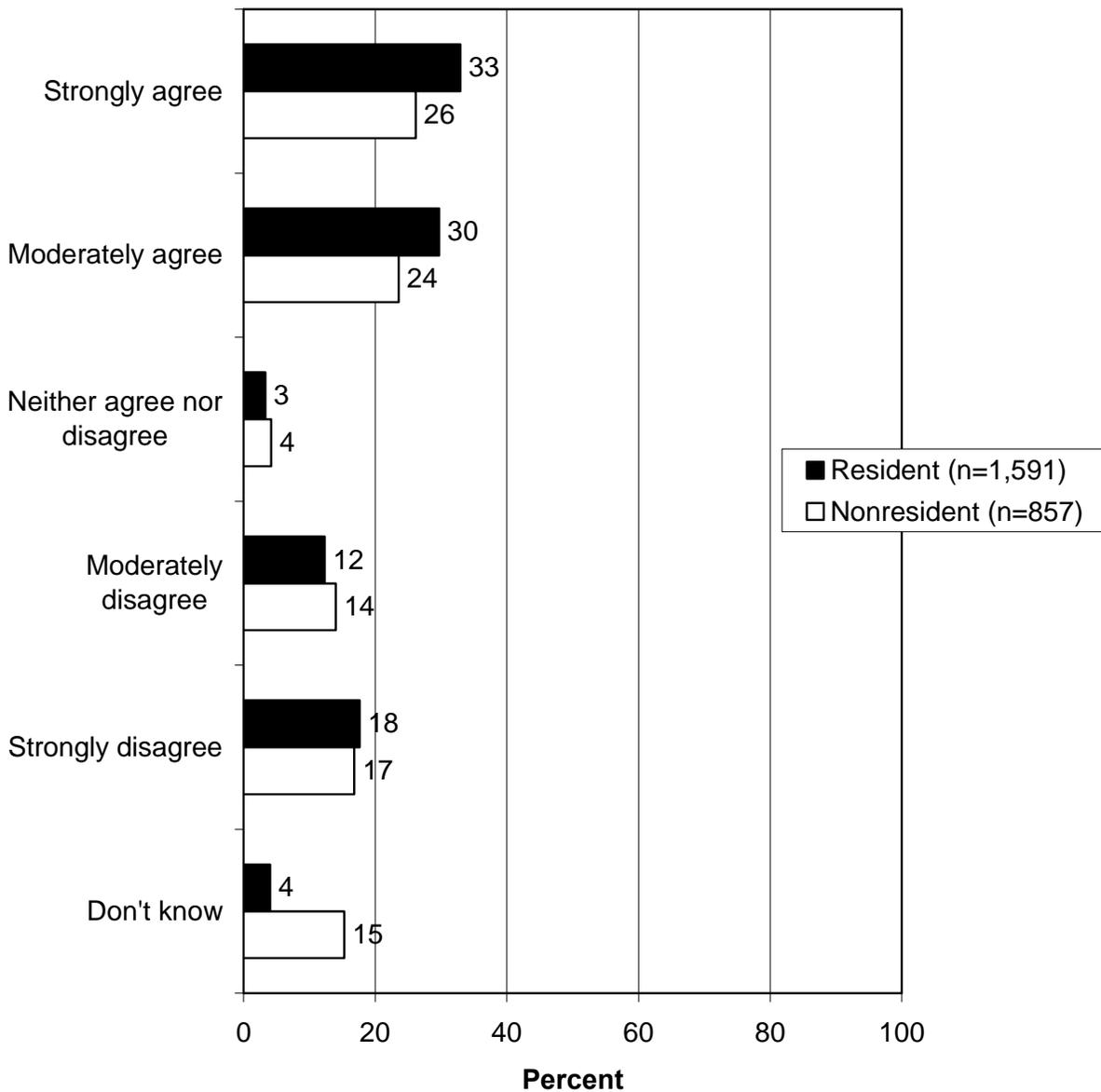
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**Q60. Public lands were marked well during mule deer hunting season. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)**  
**(Statewide: residents and nonresidents.)**



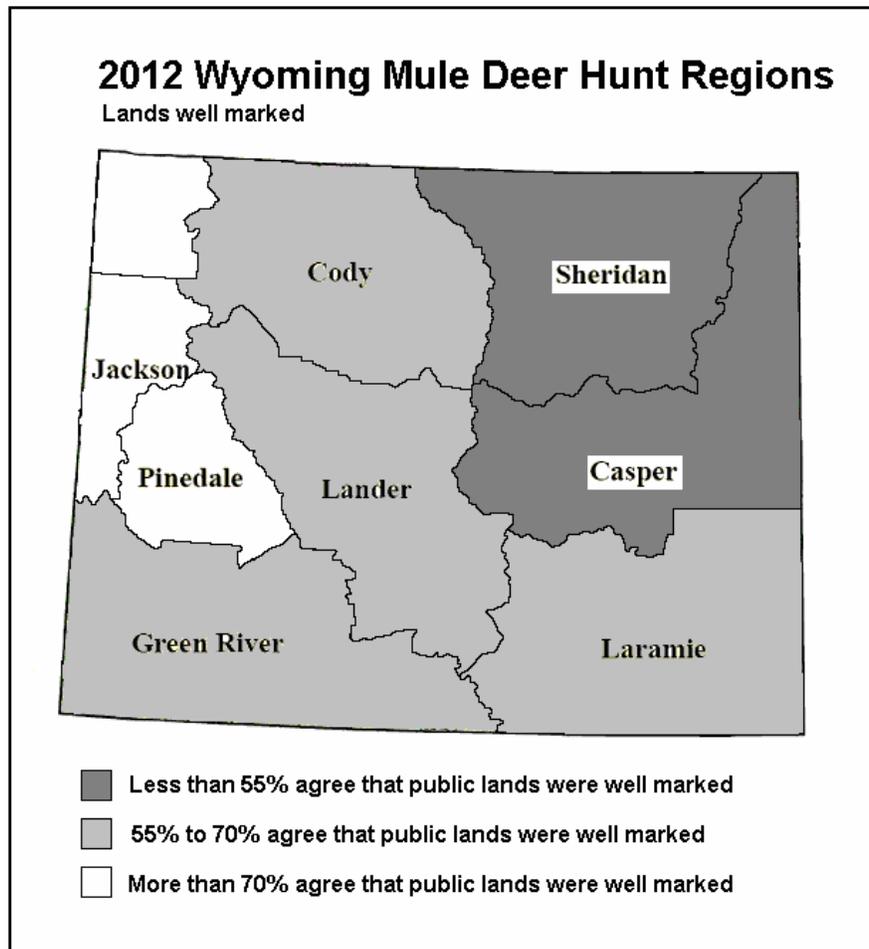
**Q60. Public lands were marked well during mule deer hunting season. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)  
(Residents versus nonresidents.)**



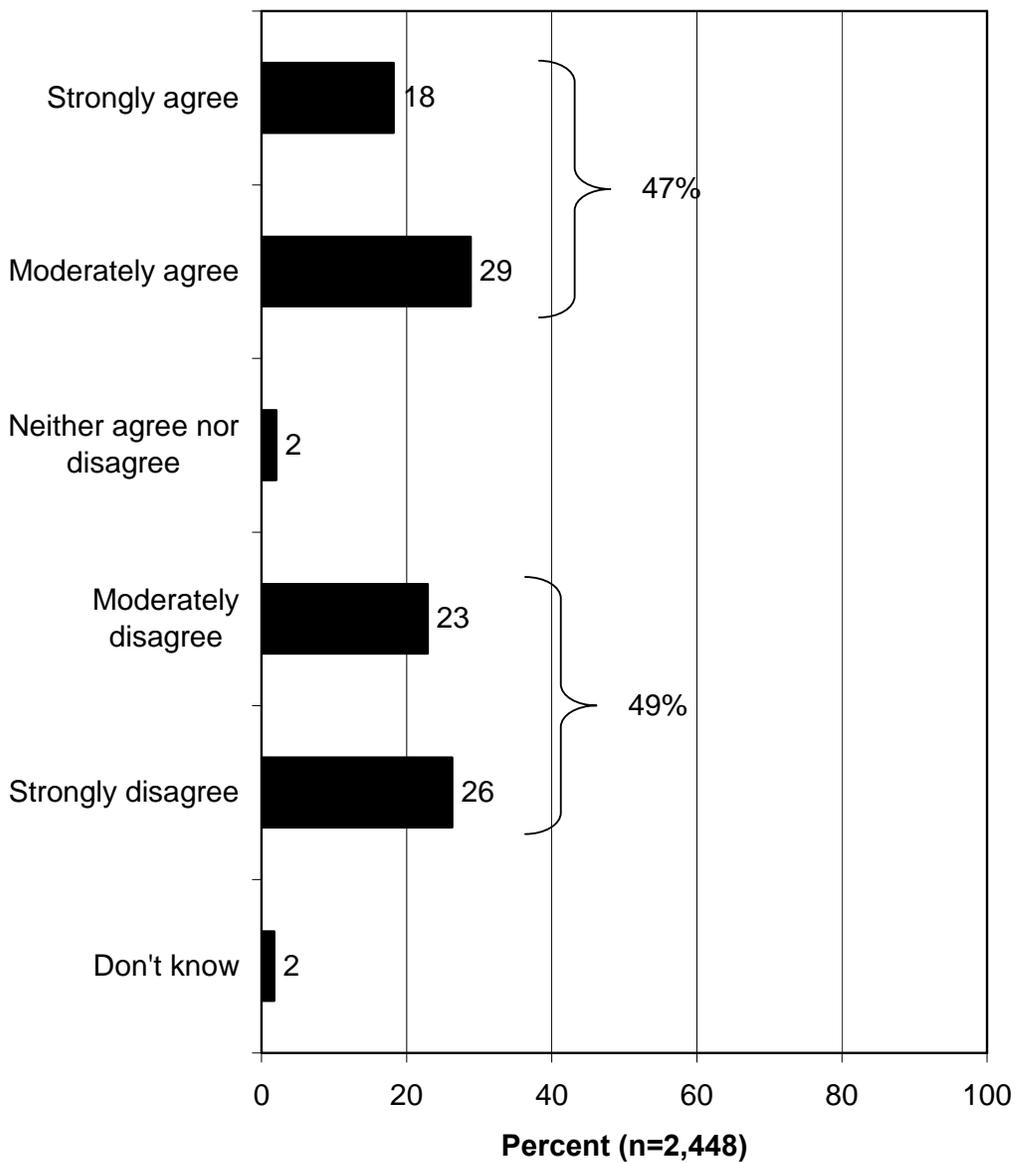
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	Casper (n=296)	Cody (n=453)	Green River (n=320)	Jackson (n=167)	Lander (n=216)	Laramie (n=323)	Pinedale (n=113)	Sheridan (n=441)	Don't know (n=119)	Total
Strongly agree	22	31	30	40	32	37	41	25	28	31
Moderately agree	24	26	31	38	28	26	34	26	23	28
Neither agree nor disagree	5	4	3	3	3	6	4	3	1	4
Moderately disagree	14	15	12	8	12	13	7	13	19	13
Strongly disagree	21	18	21	10	20	11	13	18	18	17
Don't know	15	6	4	2	4	7	2	14	12	8

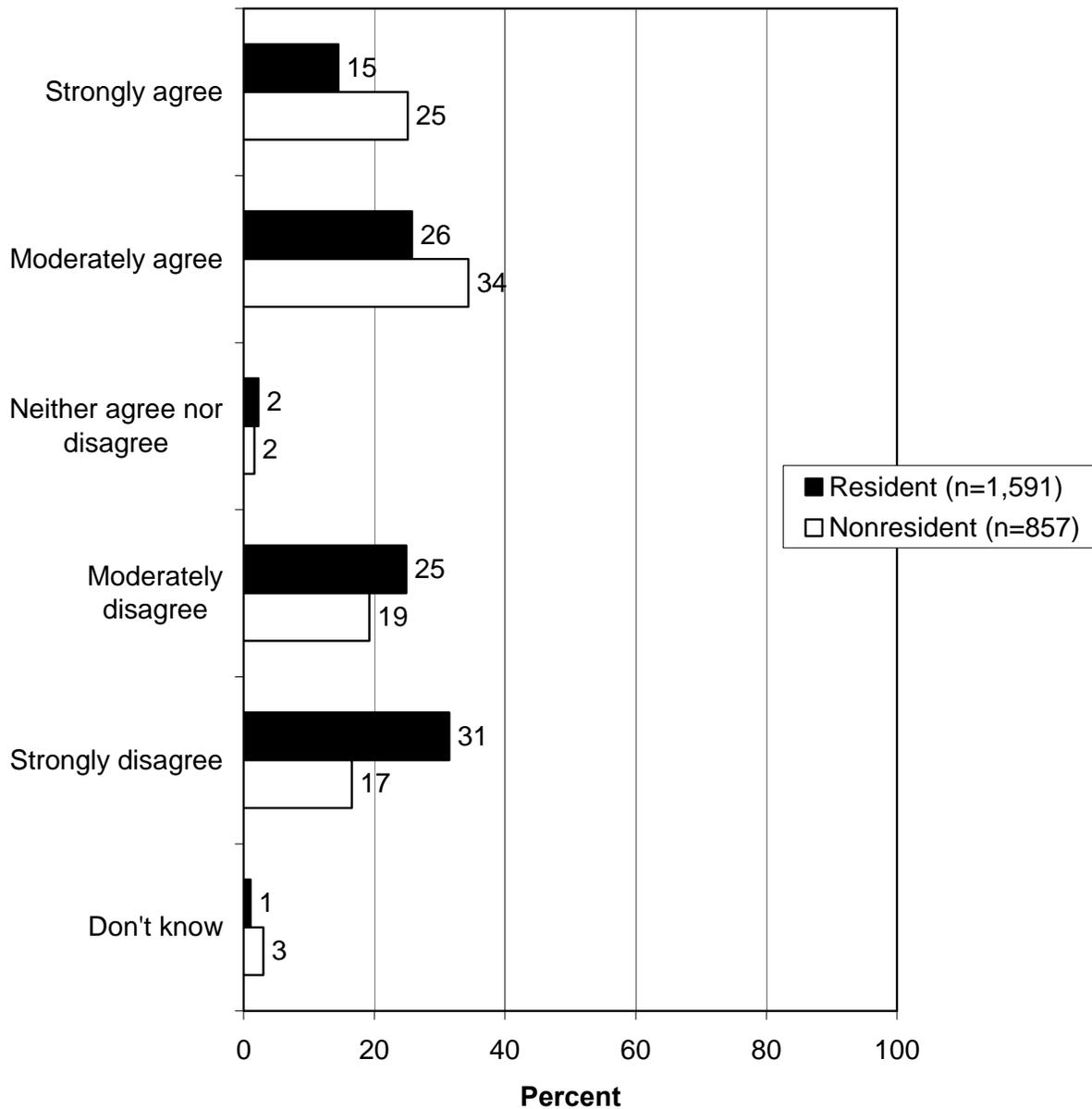
Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.



**Q61. The number of bucks in the area was adequate in the past 5 years. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)  
(Statewide: residents and nonresidents.)**



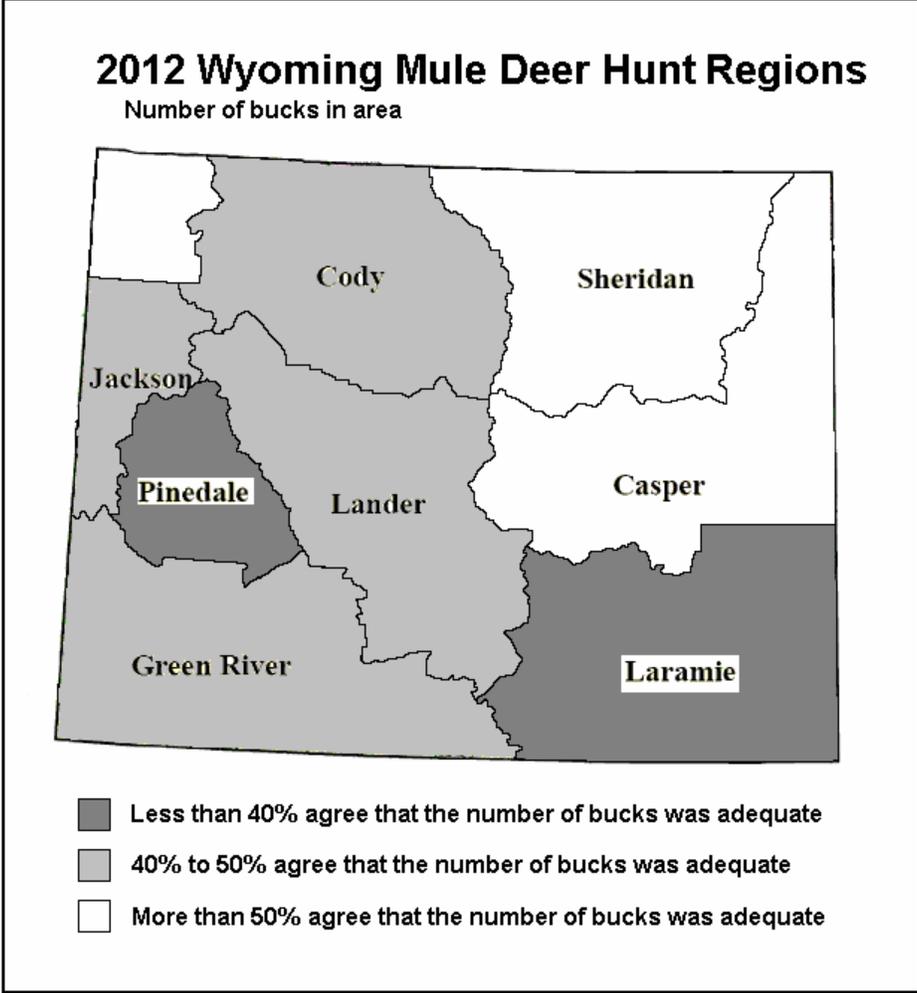
**Q61. The number of bucks in the area was adequate in the past 5 years. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?) (Residents versus nonresidents.)**



**Q61. The number of bucks in the area was adequate in the past 5 years. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)**

	Casper (n=296)	Cody (n=453)	Green River (n=320)	Jackson (n=167)	Lander (n=216)	Laramie (n=323)	Pinedale (n=113)	Sheridan (n=441)	Don't know (n=119)	Total
Strongly agree	23	19	11	17	18	18	5	22	24	18
Moderately agree	32	30	28	31	24	20	34	33	26	29
Neither agree nor disagree	2	4	2	2	0	2	2	1	2	2
Moderately disagree	21	23	23	23	26	23	30	22	18	23
Strongly disagree	21	22	35	25	31	34	29	20	29	26
Don't know	1	2	0	2	2	3	0	2	2	2

Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.

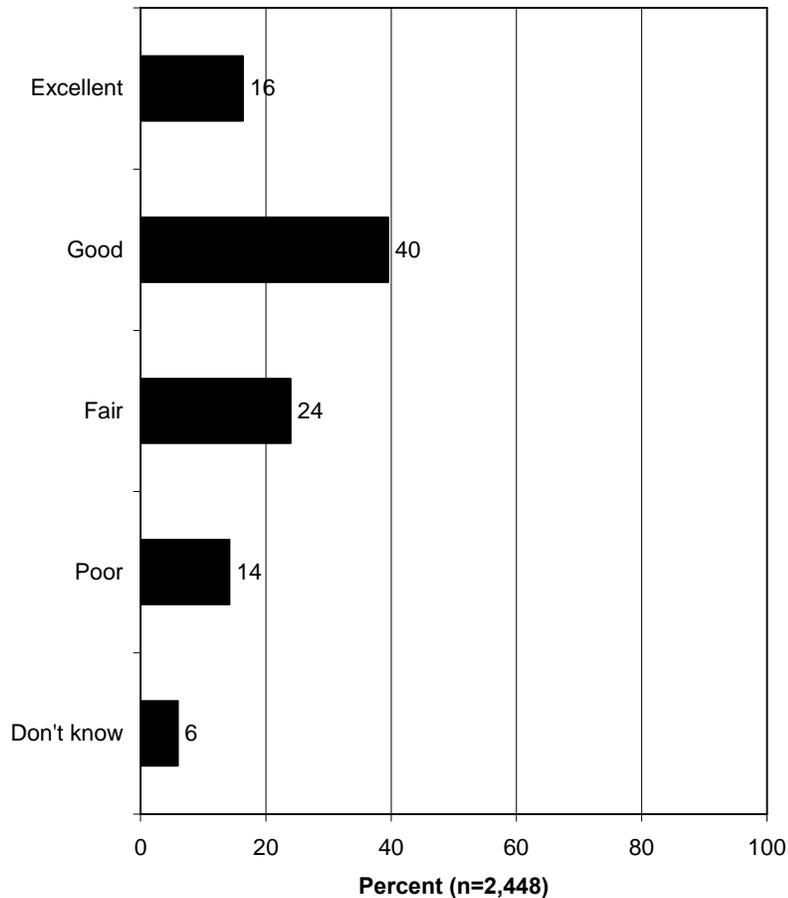


## OPINIONS ON MULE DEER MANAGEMENT

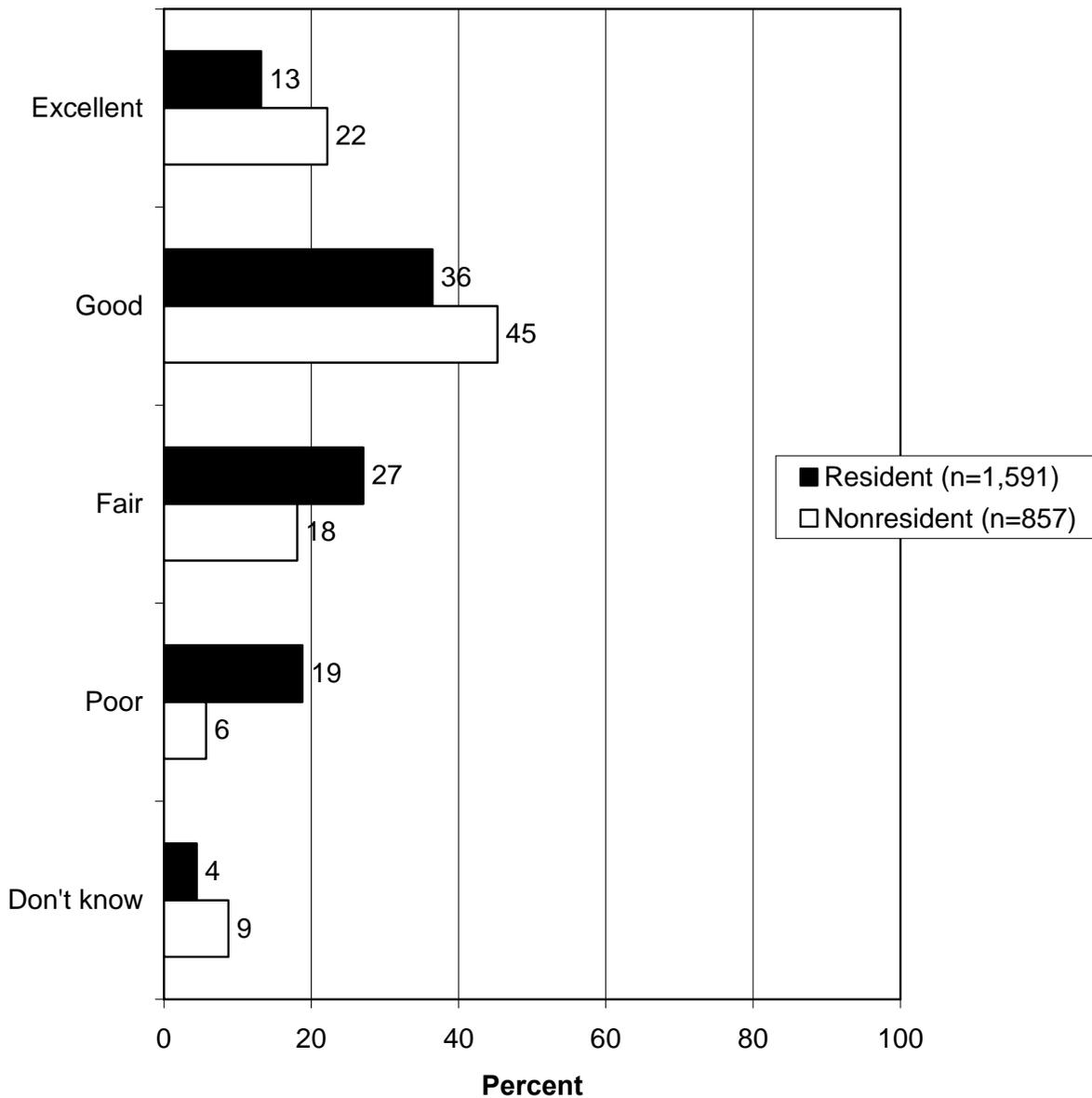
### RATINGS OF MULE DEER MANAGEMENT

- A majority of mule deer hunters (56%) rate the job that the WGFD is doing at managing mule deer as excellent or good; on the other end, 14% rate the job performance as poor.
  - Residents were more likely than nonresidents to give a rating of poor (19% to 6%) ( $p \leq 0.001$ ).

**Q65. Do you think the Wyoming Game and Fish Department is doing an excellent, good, fair, or poor job of managing the mule deer population in the hunt area where you most often hunted mule deer in Wyoming in the past 5 years? (Statewide: residents and nonresidents.)**



**Q65. Do you think the Wyoming Game and Fish Department is doing an excellent, good, fair, or poor job of managing the mule deer population in the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?  
(Residents versus nonresidents.)**



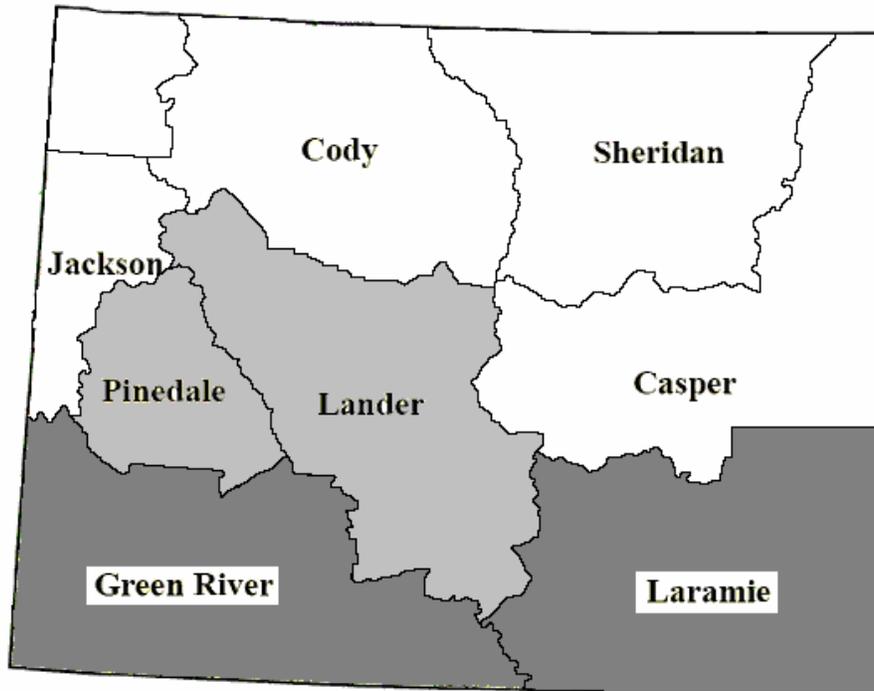
**Q65. Do you think the Wyoming Game and Fish Department is doing an excellent, good, fair, or poor job of managing the mule deer population in the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?**

	Casper (n=296)	Cody (n=453)	Green River (n=320)	Jackson (n=167)	Lander (n=216)	Laramie (n=323)	Pinedale (n=113)	Sheridan (n=441)	Don't know (n=119)	Total
Excellent	14	18	13	16	13	17	11	20	21	16
Good	48	43	34	44	39	32	39	40	35	40
Fair	22	21	28	20	30	25	27	23	23	24
Poor	9	13	20	16	15	20	18	9	12	14
Don't know	7	6	4	4	3	7	6	8	9	6

Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.

### 2012 Wyoming Mule Deer Hunt Regions

Rating of performance at managing mule deer

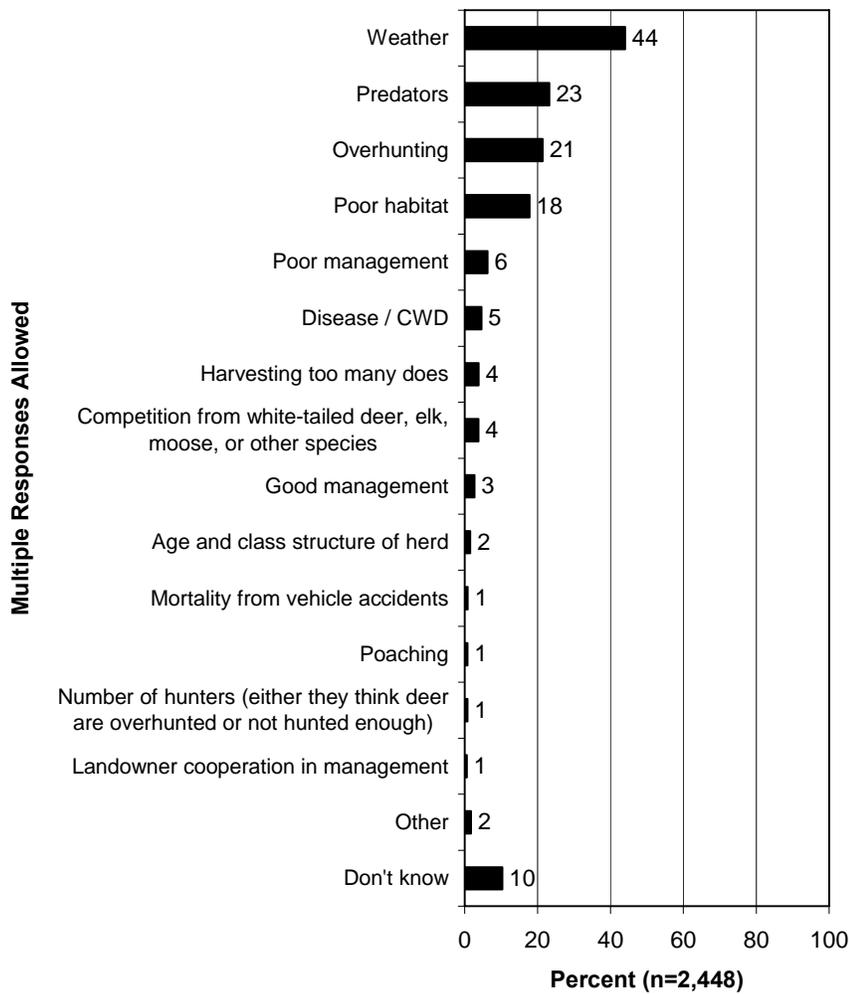


- Less than 50% give a rating of excellent or good
- 50% to 59% give a rating of excellent or good
- 60% or more give a rating of excellent or good

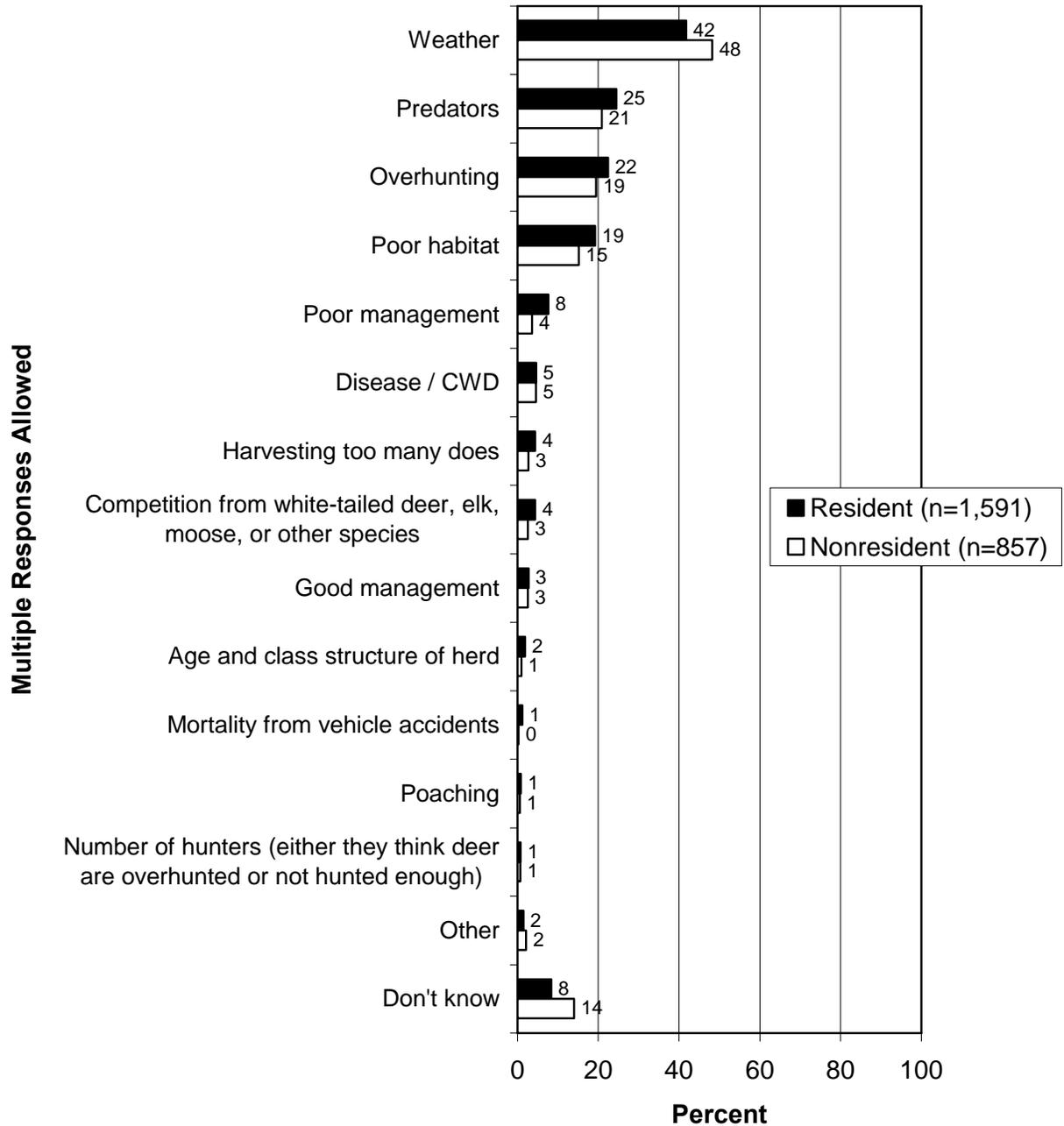
**PERCEIVED FACTORS IN SIZE OF MULE DEER POPULATION**

- Mule deer hunters were asked to say the factors that they think control the ability of the mule deer herds to increase or decrease annually; they could say as many factors as came to mind. The most common responses were weather (44%), predators (23%), overhunting (21%), and poor habitat (18%). The graph shows the full listing.
  - The resident/nonresident crosstabulation is shown, with little marked differences in opinion.

**Q68. In general, what factors do you think control the ability of the mule deer herds in Wyoming to increase or decrease annually? (Statewide: residents and nonresidents.)**



**Q68. In general, what factors do you think control the ability of the mule deer herds in Wyoming to increase or decrease annually?  
(Residents versus nonresidents.)**

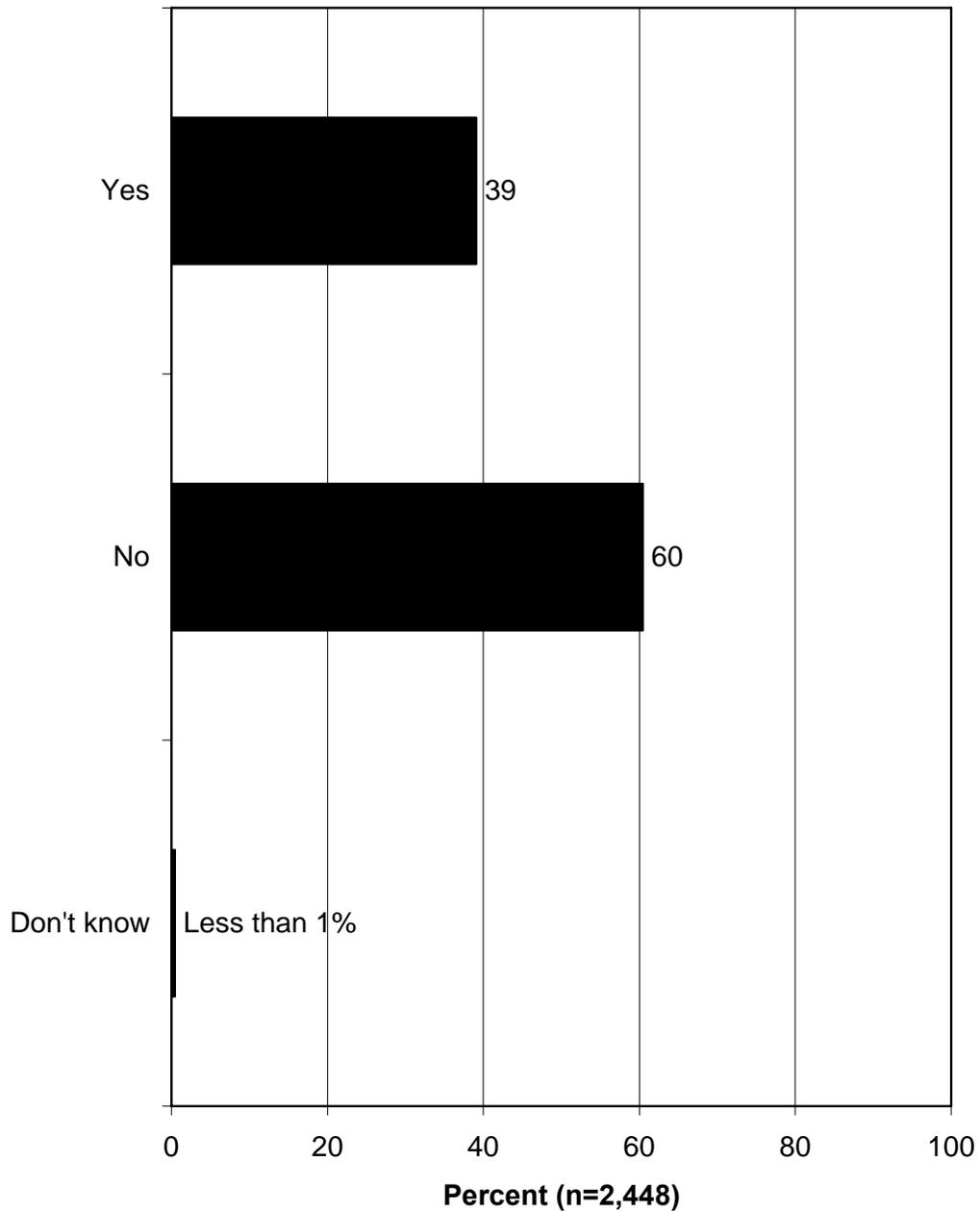


<b>Q68. In general, what factors do you think control the ability of the mule deer herds in Wyoming to increase or decrease annually?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Weather	46	35	58	53	38	41	47	44	41	44
Predators	18	26	17	39	27	22	26	20	26	23
Overhunting	20	19	26	26	24	20	20	20	23	21
Poor habitat	16	18	13	19	19	25	19	19	9	18
Poor management	5	6	8	7	7	9	6	5	5	6
Disease / CWD	6	6	2	1	4	9	1	5	3	5
Harvesting too many does	4	4	6	2	4	4	5	3	2	4
Competition from white-tailed deer, elk, moose, or other species	3	6	2	4	3	4	1	5	1	4
Good management	2	1	2	2	4	4	3	3	4	3
Age and class structure of herd	1	1	2	1	0	2	3	3	3	2
Mortality from vehicle accidents	0	1	1	3	0	0	3	1	1	1
Poaching	0	1	1	0	1	2	0	0	0	1
Number of hunters (not sure if they think deer are overhunted or not hunted enough)	2	1	1	0	1	0	0	0	2	1
Landowner cooperation in management	1	1	0	0	0	0	0	1	0	1
Not enough hunting	0	1	0	0	1	0	0	0	0	0
Fires	0	0	1	1	0	0	1	0	0	0
Other	3	2	2	1	2	2	1	1	0	2
Don't know	12	10	7	2	8	13	10	13	15	10

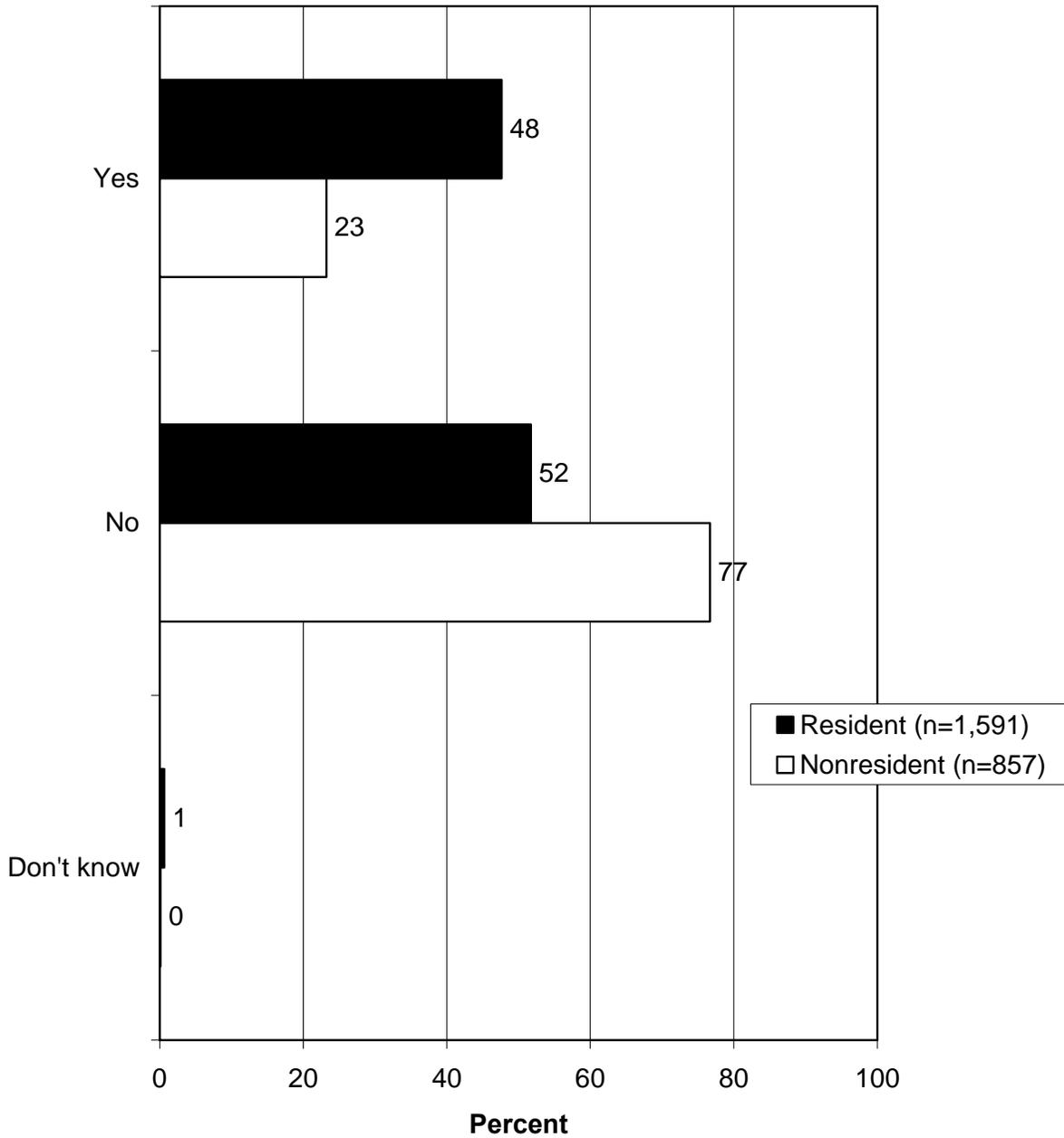
## ANTLERLESS HUNTING

- Regarding whether they had ever hunted antlerless mule deer in Wyoming, 39% of mule deer hunters had done so, while 60% had not.
  - Residents are much more likely than are nonresidents ( $p \leq 0.001$ ) to have hunted antlerless deer in Wyoming (48% of residents have done so, compared to 23% of nonresidents).
  
- Regardless of whether they had ever hunted antlerless mule deer, a large majority of mule deer hunters agree (85%) that antlerless mule deer harvest is an acceptable mule deer management tool.
  - There is little marked difference between residents and nonresidents on this question.
  
- Finally in this section, an overwhelming majority of mule deer hunters (note that only adult hunters were interviewed for this survey) say that it is acceptable (80%) for youth hunters to be allowed to harvest antlerless deer during a season that allows adults to harvest antlered deer only; meanwhile, 13% say this is unacceptable.
  - There is little marked difference between residents and nonresidents on this question.

**Q70. Have you ever participated in an antlerless mule deer hunt in Wyoming?  
(Statewide: residents and nonresidents.)**

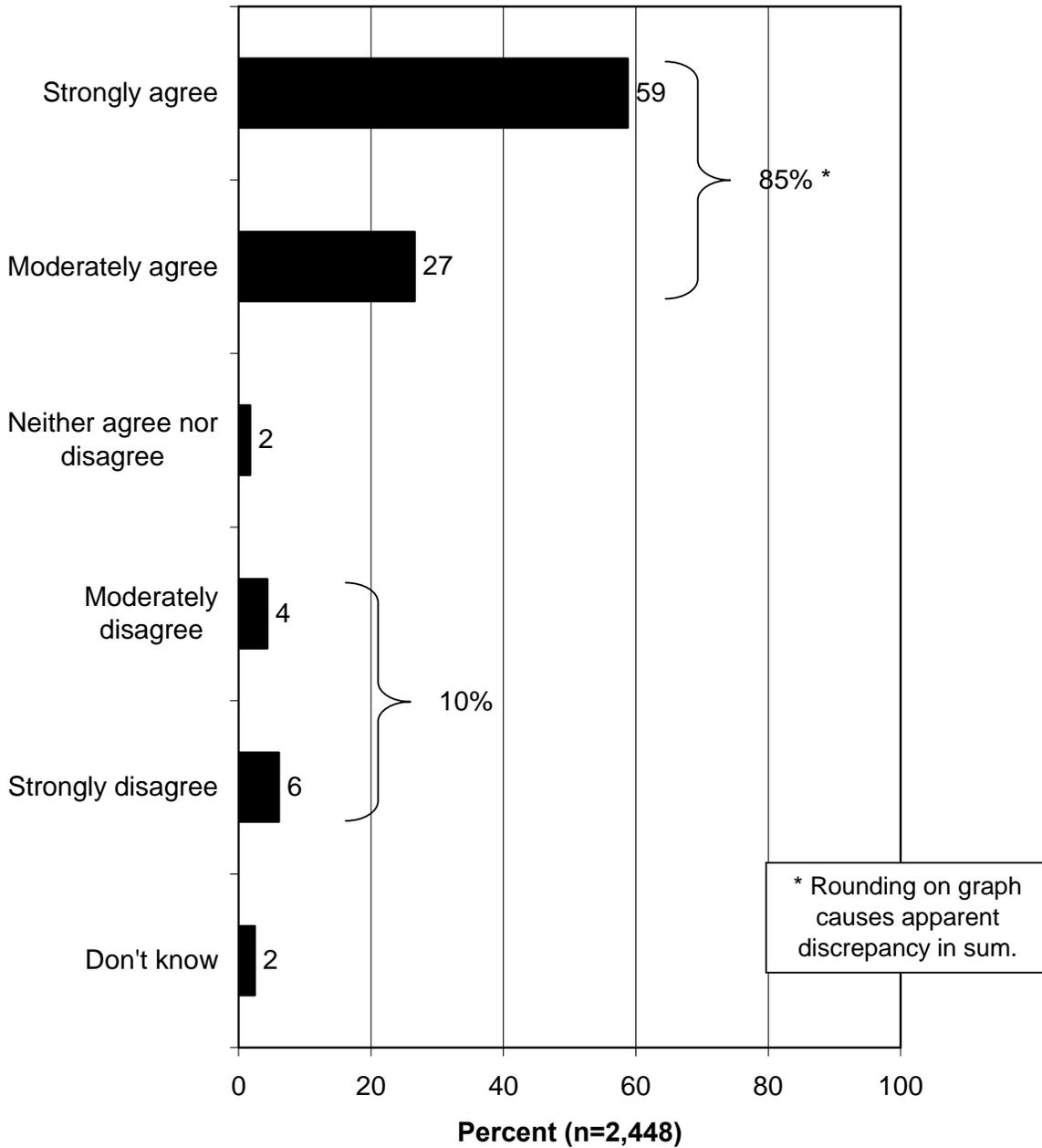


**Q70. Have you ever participated in an antlerless mule deer hunt in Wyoming?  
(Residents versus nonresidents.)**

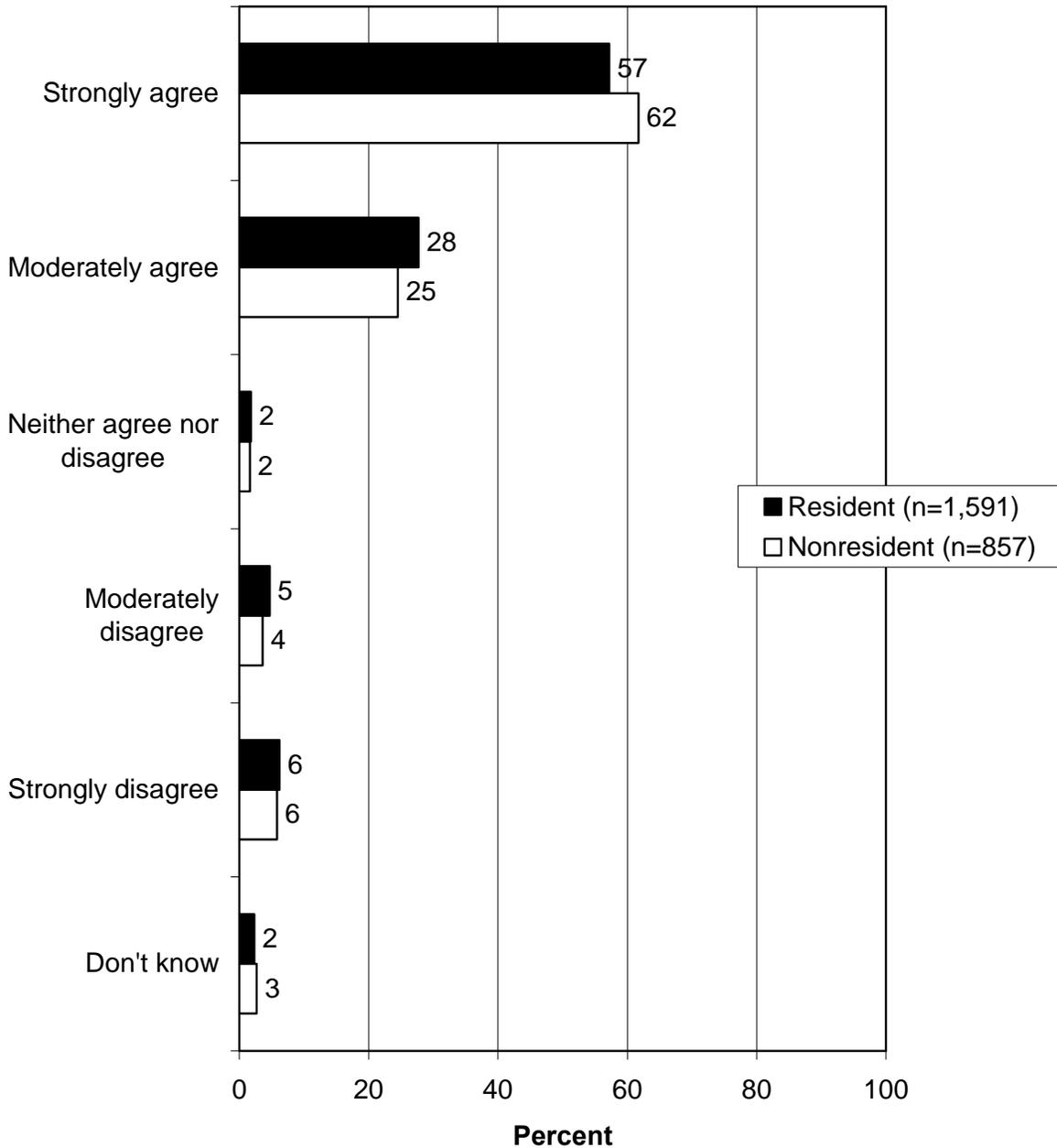


<b>Q70. Have you ever participated in an antlerless mule deer hunt in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Yes	35	52	34	21	51	35	42	39	25	39
No	65	47	66	79	47	64	58	61	74	60
Don't know	0	1	0	0	1	0	0	0	1	0

**Q71. Do you agree or disagree that antlerless deer harvest is an acceptable mule deer management tool?**  
**(Statewide: residents and nonresidents.)**

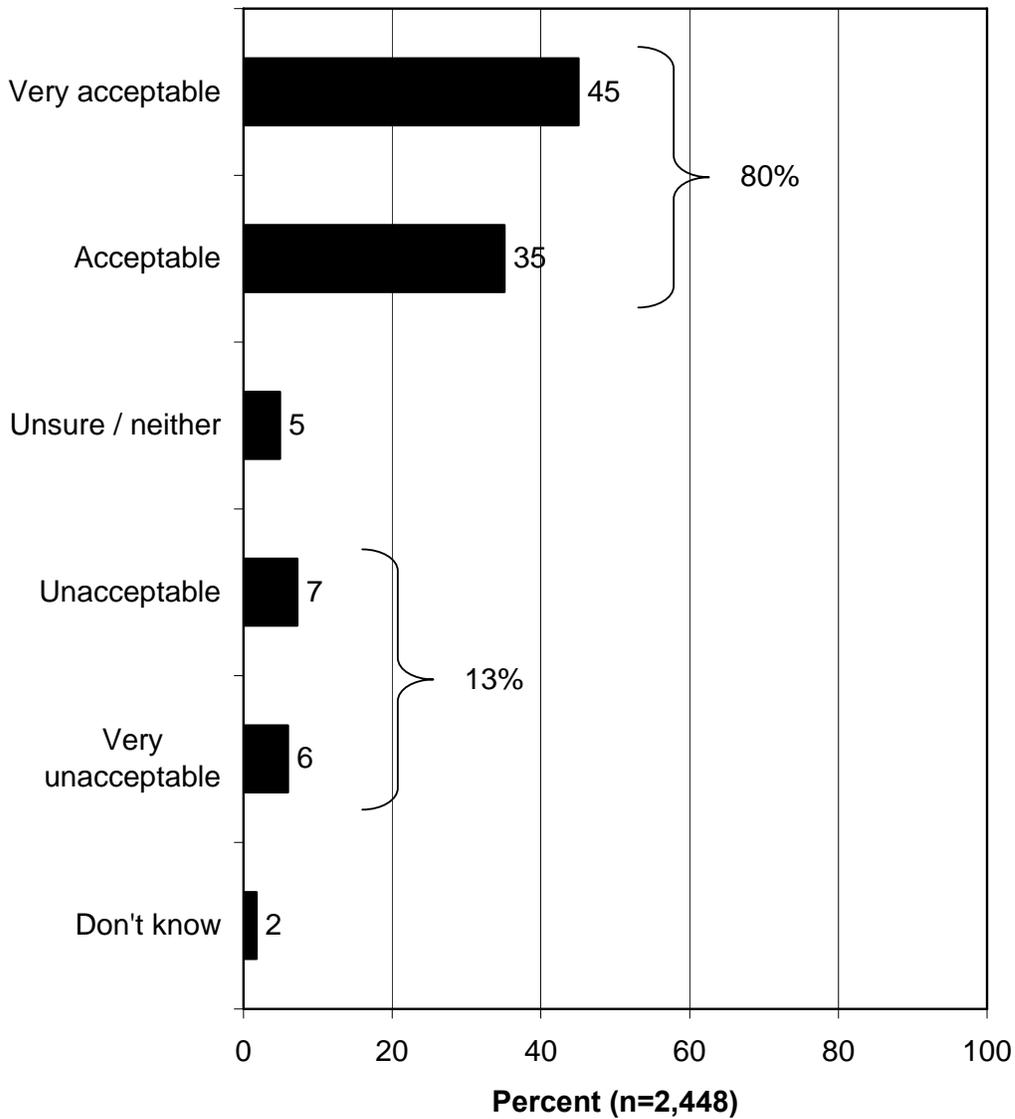


**Q71. Do you agree or disagree that antlerless deer harvest is an acceptable mule deer management tool?  
(Residents versus nonresidents.)**

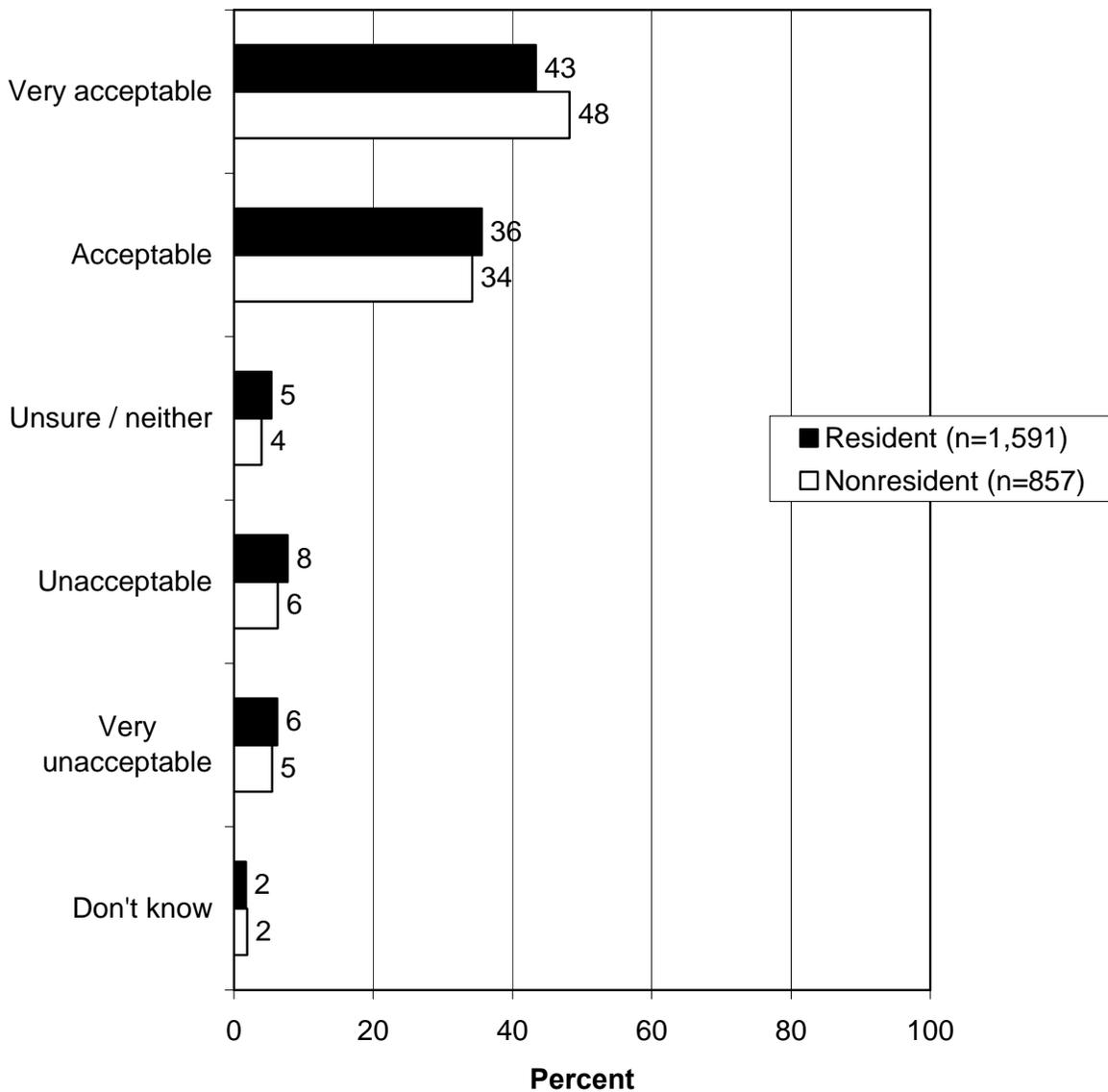


<b>Q71. Do you agree or disagree that antlerless deer harvest is an acceptable mule deer management tool?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Strongly agree	62	67	50	47	59	58	49	67	42	59
Moderately agree	26	25	28	28	31	24	35	22	38	27
Neither agree nor disagree	1	1	3	3	1	2	4	1	3	2
Moderately disagree	3	3	6	5	3	7	4	4	3	4
Strongly disagree	4	4	10	13	4	6	5	4	9	6
Don't know	4	0	2	5	1	2	4	2	5	2

**Q72. Youth in Wyoming are currently allowed to harvest any deer during the season in which adults can only hunt for antlered deer. How acceptable or unacceptable is it for youth hunters to harvest an antlerless deer during a season that permits adults to harvest antlered deer only? (Statewide: residents and nonresidents.)**



**Q72. Youth in Wyoming are currently allowed to harvest any deer during the season in which adults can only hunt for antlered deer. How acceptable or unacceptable is it for youth hunters to harvest an antlerless deer during a season that permits adults to harvest antlered deer only? (Residents versus nonresidents.)**



<b>Q72. Youth in Wyoming are currently allowed to harvest any deer during the season in which adults can only hunt for antlered deer. How acceptable or unacceptable is it for youth hunters to harvest an antlerless deer during a season that permits adults to harvest antlered deer only?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very acceptable	49	41	40	45	50	42	46	50	44	45
Acceptable	33	43	35	31	32	34	35	31	39	35
Unsure / neither	7	4	4	5	5	7	2	5	3	5
Unacceptable	4	5	12	8	8	8	11	6	7	7
Very unacceptable	4	5	7	11	3	7	6	6	6	6
Don't know	2	2	2	1	2	1	1	2	2	2

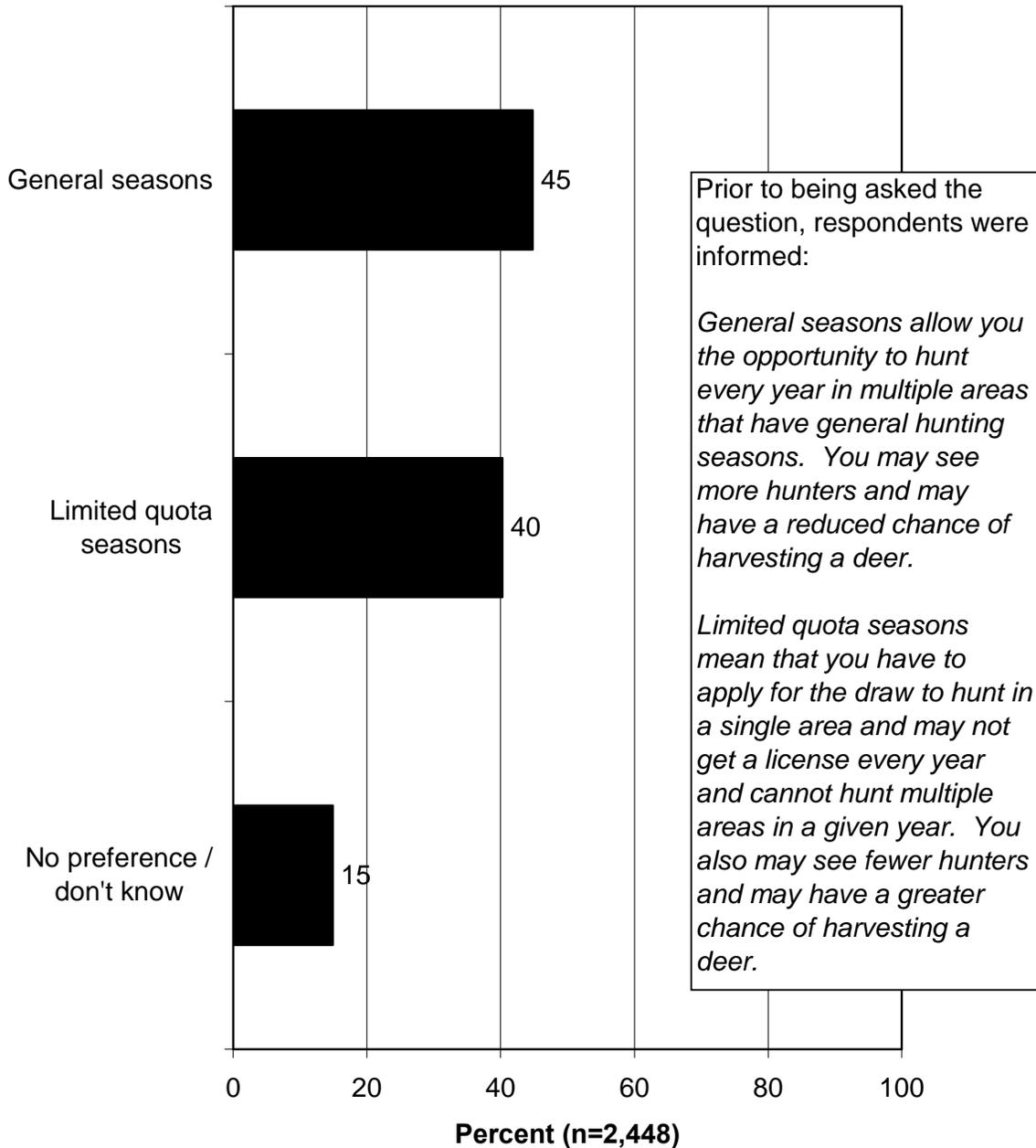
## OPINIONS ON SEASON STRUCTURE

- A series of questions explored opinions regarding general seasons versus limited quota seasons. The most direct (but not the first in the survey order) asked respondents which type of season they preferred (general versus limited quota), and opinion is split: 45% prefer general seasons and 40% prefer limited quota seasons (the remainder have no preference). Note that prior to being asked, respondents were told the following information about general seasons and limited quota seasons: *General seasons allow you the opportunity to hunt every year in multiple areas that have general hunting seasons. You may see more hunters and may have a reduced chance of harvesting a deer. Limited quota seasons mean that you have to apply for the draw to hunt in a single area and may not get a license every year and cannot hunt multiple areas in a given year. You also may see fewer hunters and may have a greater chance of harvesting a deer.*
  - Nonresidents are more likely than are residents to prefer limited quota seasons, a statistically significant difference ( $p \leq 0.001$ ).
  
- Follow-up questions asked about reasons for preferring general seasons or for preferring limited quota seasons.
  - The most common reasons for preferring general seasons are the ability to hunt in more areas (33% of those who prefer general seasons), that one can hunt every year (28%), and the greater flexibility that general seasons provide regarding timing of seasons and planning for hunting trips and so forth (11%).
    - The resident/nonresident crosstabulation is shown; the differences in the top two answers (“Can hunt more areas/better access” and “Can hunt every year/no draw”) are statistically significant (both at  $p \leq 0.001$ ). Residents are more concerned about hunting more areas; nonresidents show more concern about hunting every year.
  - The most common reasons for preferring limited quota seasons are that they are perceived as being less crowded (38% of those who prefer limited quota seasons), that there are better quality deer (26%), that it is a better way of managing mule deer (24%), and that there is a better chance of harvest (15%).
    - The resident/nonresident crosstabulation is shown; the groups are not markedly different.

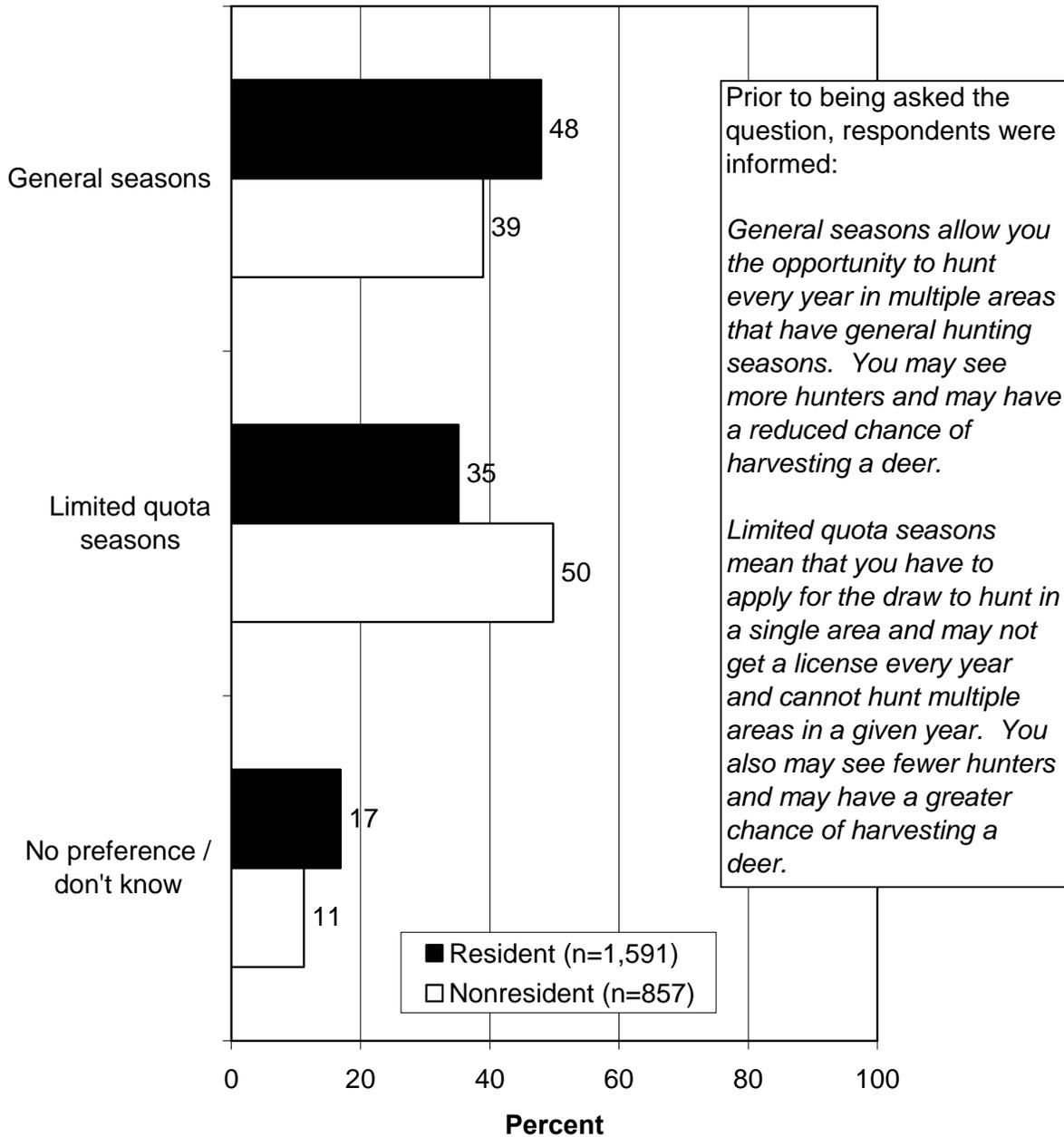
- Other questions that pertained to season structure were asked in this section, as well.
- *Hunting every year*—A majority of mule deer hunters (55%) say that it is *very* important to them, personally, to be able to hunt mule deer in Wyoming every year, and another 31% say it is moderately important (a sum of 86% saying important).
    - Residents are more likely than are nonresidents to think this is *very* important (63% to 41%), a statistically significant difference ( $p \leq 0.001$ ).
  - *Limiting hunters in the field*—Despite the finding above that a majority think it is important to hunt every year, a large majority of mule deer hunters (65%) support limiting the number of hunters in the field, even if it would make it less likely that they would draw a license; meanwhile, 26% oppose.
    - Residents and nonresidents are not markedly different on this question.
  - *Hunting in only one area*—Opinion is split on the acceptability of hunting in only one area versus multiple areas in a given year: 53% say it is acceptable to be able to hunt in only one area, while 41% say it is unacceptable to be limited to one area.
    - Nonresidents are much more likely to find this acceptable, compared to residents ( $p \leq 0.001$ ).
  - *Limited quota in all areas*—While a majority of mule deer hunters overall (55%) would find it acceptable to have limited quota seasons in all hunt areas in Wyoming, a substantial percentage (36%) would find it unacceptable.
    - Residents are more likely than are nonresidents to find this unacceptable ( $p \leq 0.001$ ).
  - *Requiring selection of one region to hunt*—A strong majority of mule deer hunters (64%) support a season structure wherein state residents obtain a general license but are required to select a region to hunt (similar to the way nonresidents do now); meanwhile, 27% oppose.
    - Residents are more likely to strongly oppose this, compared to nonresidents ( $p \leq 0.001$ ). Nonetheless, majorities of both groups support the season structure.
  - *Delaying hunting until later in season*—An overwhelming majority of mule deer hunters overall (82%) said that they would consider delaying their hunt until later in the season if there were a chance of encountering fewer hunters after opening day; 14% would not consider it.
    - Residents and nonresidents are not greatly different on this question.

- *Paying more than the current license fee*—Opinion is split on willingness to pay more than the current fee for a mule deer license given that it would mean the possibility of encountering fewer hunters in the field. While a majority of mule deer hunters say that they are willing (60%), compared to 38% who are not at all willing, the “willing” group are not strongly opinionated: the most common answer is just *somewhat* willing (40%). Indeed, the percentage who would be *not at all* willing (38%) is double the percentage who describe themselves as *very* willing (19%).
  - The crosstabulation by resident versus nonresident is shown, which found that nonresidents are more likely to say that they are *not at all* willing ( $p \leq 0.001$ ).
- *Archery only/firearms only versus both*—The current regulations are preferred by a large majority over regulations in which hunters must choose to hunt either on an archery license or firearms license but not both: 71% prefer current regulations; 25% the “either but not both” structure.
  - Residents and nonresidents are not greatly different on this question.

**Q76. Do you prefer general seasons or limited quota seasons?  
(Statewide: residents and nonresidents.)**

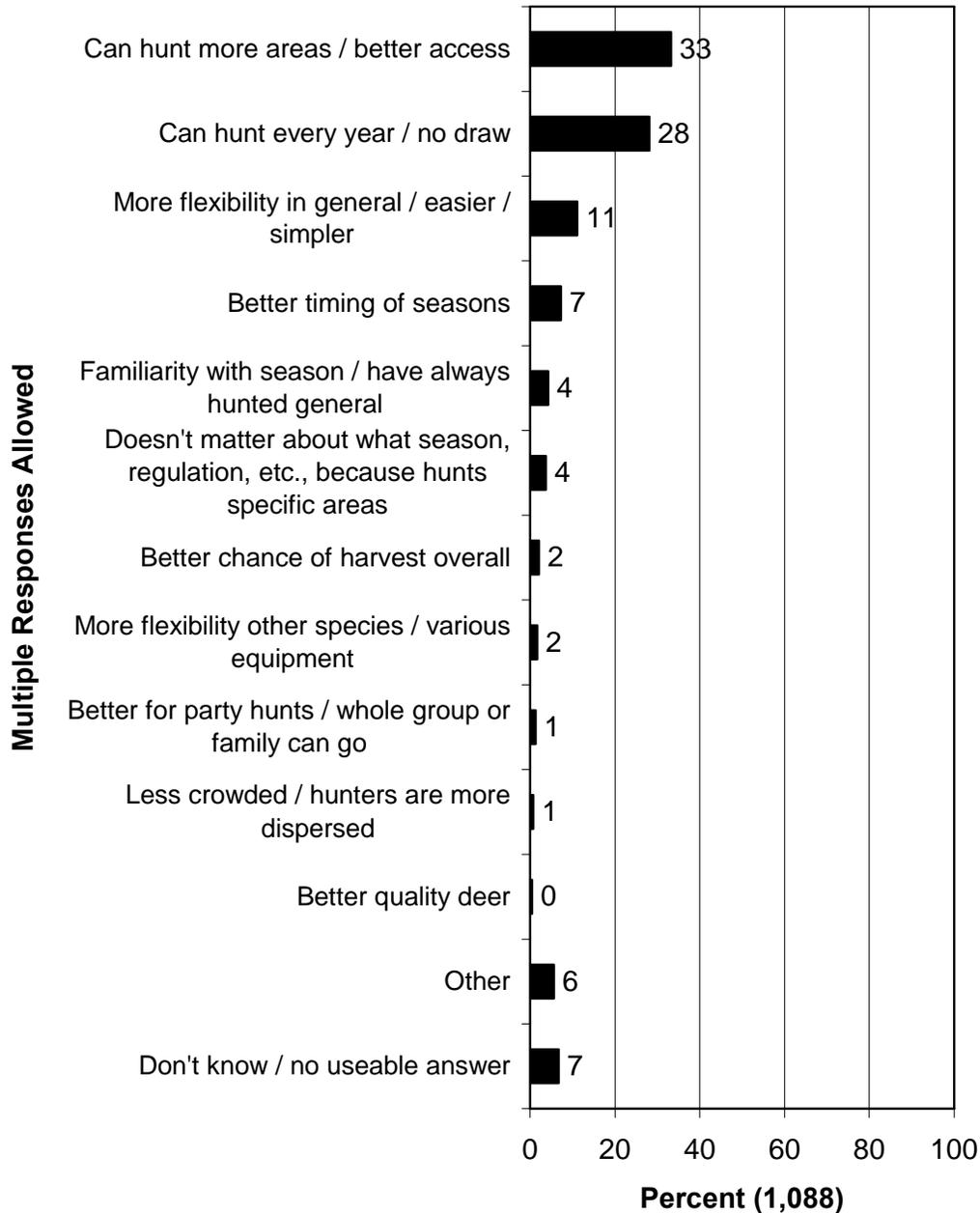


**Q76. Do you prefer general seasons or limited quota seasons?  
(Residents versus nonresidents.)**

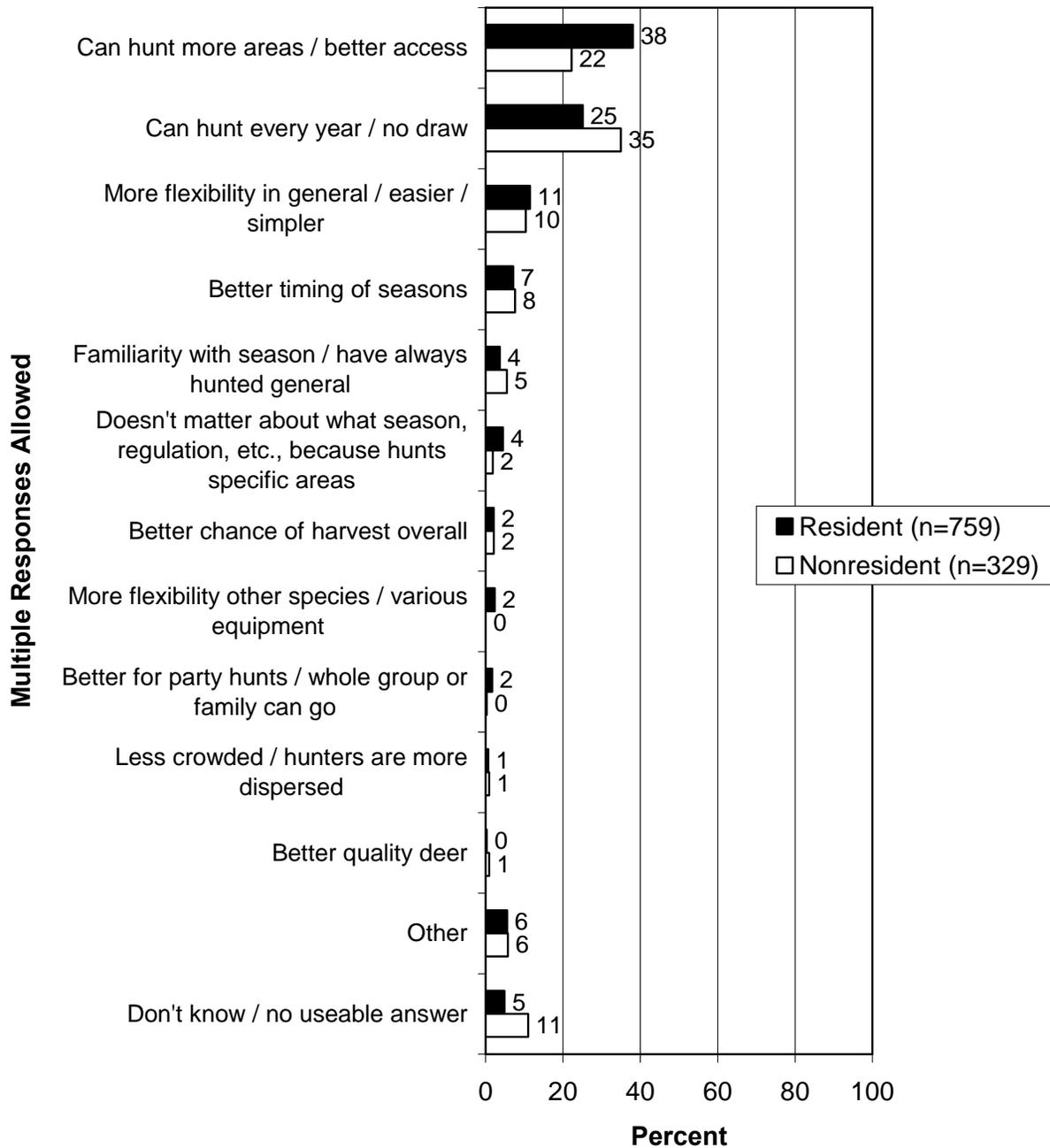


<b>Q76. Do you prefer general seasons or limited quota seasons?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
General seasons	46	42	43	53	36	43	41	52	44	45
Limited quota seasons	42	45	39	35	49	41	42	34	35	40
No preference / don't know	12	13	18	11	15	16	17	15	21	15
<p>Prior to being asked the question, respondents were informed:</p> <p>General seasons allow you the opportunity to hunt every year in multiple areas that have general hunting seasons. You may see more hunters and may have a reduced chance of harvesting a deer.</p> <p>Limited quota seasons mean that you have to apply for the draw to hunt in a single area and may not get a license every year and cannot hunt multiple areas in a given year. You also may see fewer hunters and may have a greater chance of harvesting a deer.</p>										

**Q77. Why do you prefer general seasons? (Asked  
of those who prefer general seasons.)  
(Statewide: residents and nonresidents.)**

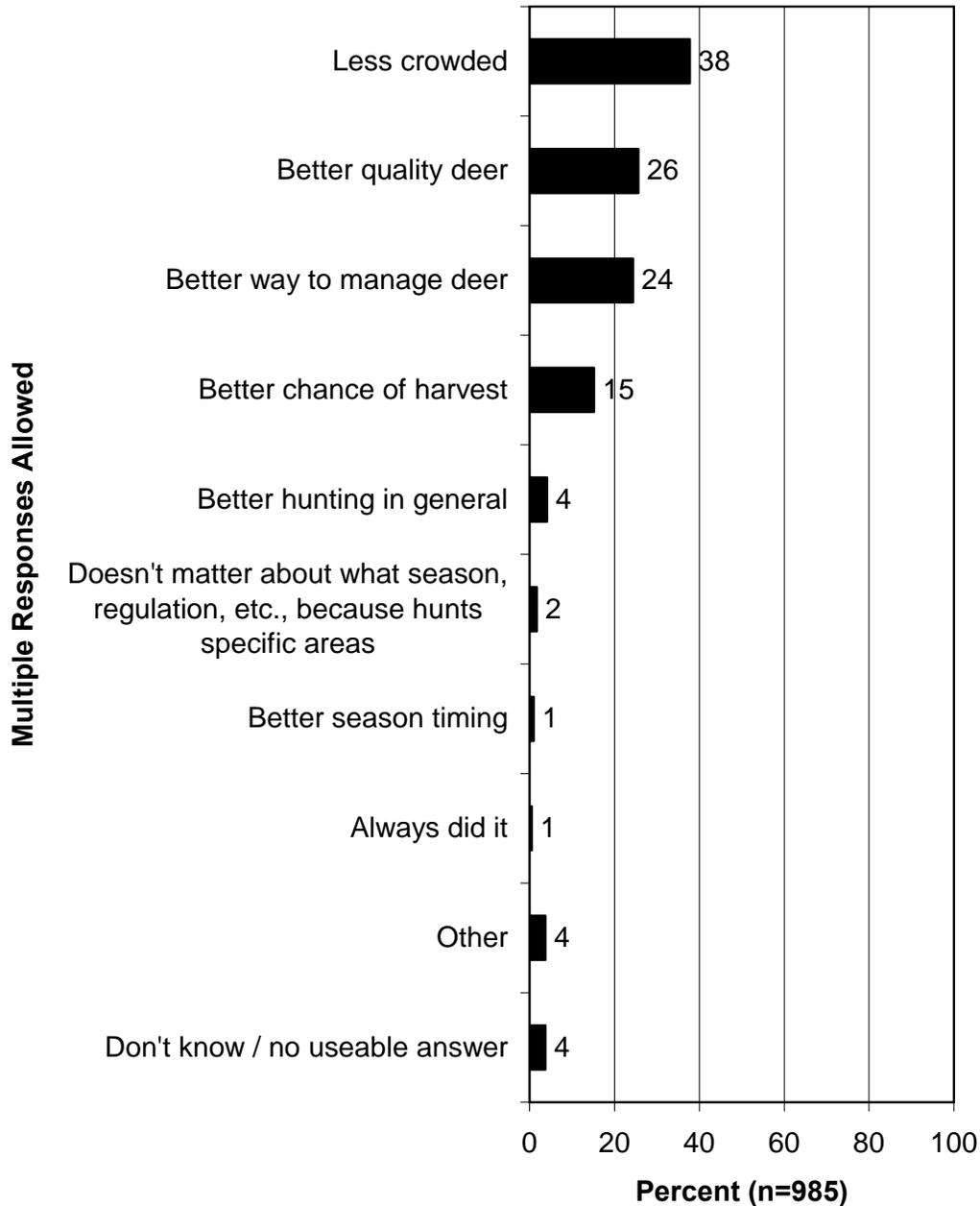


**Q77. Why do you prefer general seasons? (Asked of those who prefer general seasons.) (Residents versus nonresidents.)**

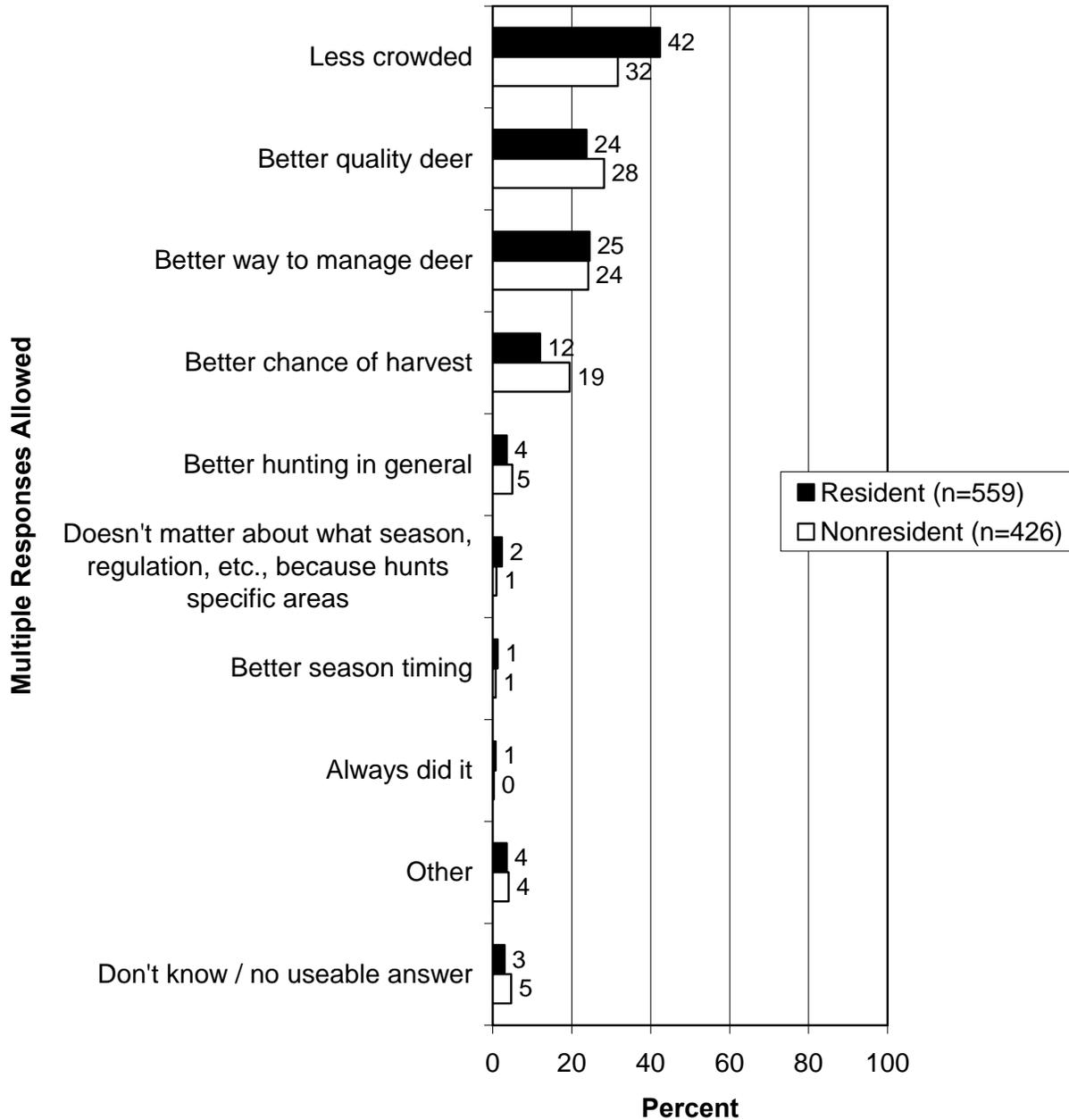


<b>Q77. Why do you prefer general seasons? (Asked of those who prefer general seasons.)</b>										
	<b>Casper (n=134)</b>	<b>Cody (n=192)</b>	<b>Green River (n=136)</b>	<b>Jackson (n=89)</b>	<b>Lander (n=77)</b>	<b>Laramie (n=140)</b>	<b>Pinedale (n=46)</b>	<b>Sheridan (n=224)</b>	<b>Don't know (n=50)</b>	<b>Total</b>
Can hunt more areas / better access	28	30	33	37	39	36	46	31	34	33
Can hunt every year / no draw	31	33	29	29	21	26	26	28	18	28
More flexibility in general / easier / simpler	10	10	7	9	16	10	22	13	14	11
Better timing of seasons	7	5	5	9	9	7	7	8	10	7
Familiarity with season / have always hunted general	5	4	5	4	3	6	2	4	4	4
Doesn't matter about what season, regulation, etc., because hunts specific areas	4	4	1	7	0	8	4	2	2	4
Better chance of harvest overall	1	3	2	1	0	1	0	4	4	2
More flexibility other species / various equipment	1	1	2	0	3	1	2	2	2	2
Better for party hunts / whole group or family can go	1	2	1	1	1	2	2	0	2	1
Less crowded / hunters are more dispersed	0	1	0	0	3	0	0	1	2	1
Better quality deer	0	1	1	1	0	1	0	0	0	0
Other	6	4	10	3	9	4	0	6	6	6
Don't know / no useable answer	13	7	6	4	5	6	2	7	6	7

**Q78. Why do you prefer limited quota seasons?  
(Asked of those who prefer limited quota seasons.)  
(Statewide: residents and nonresidents.)**

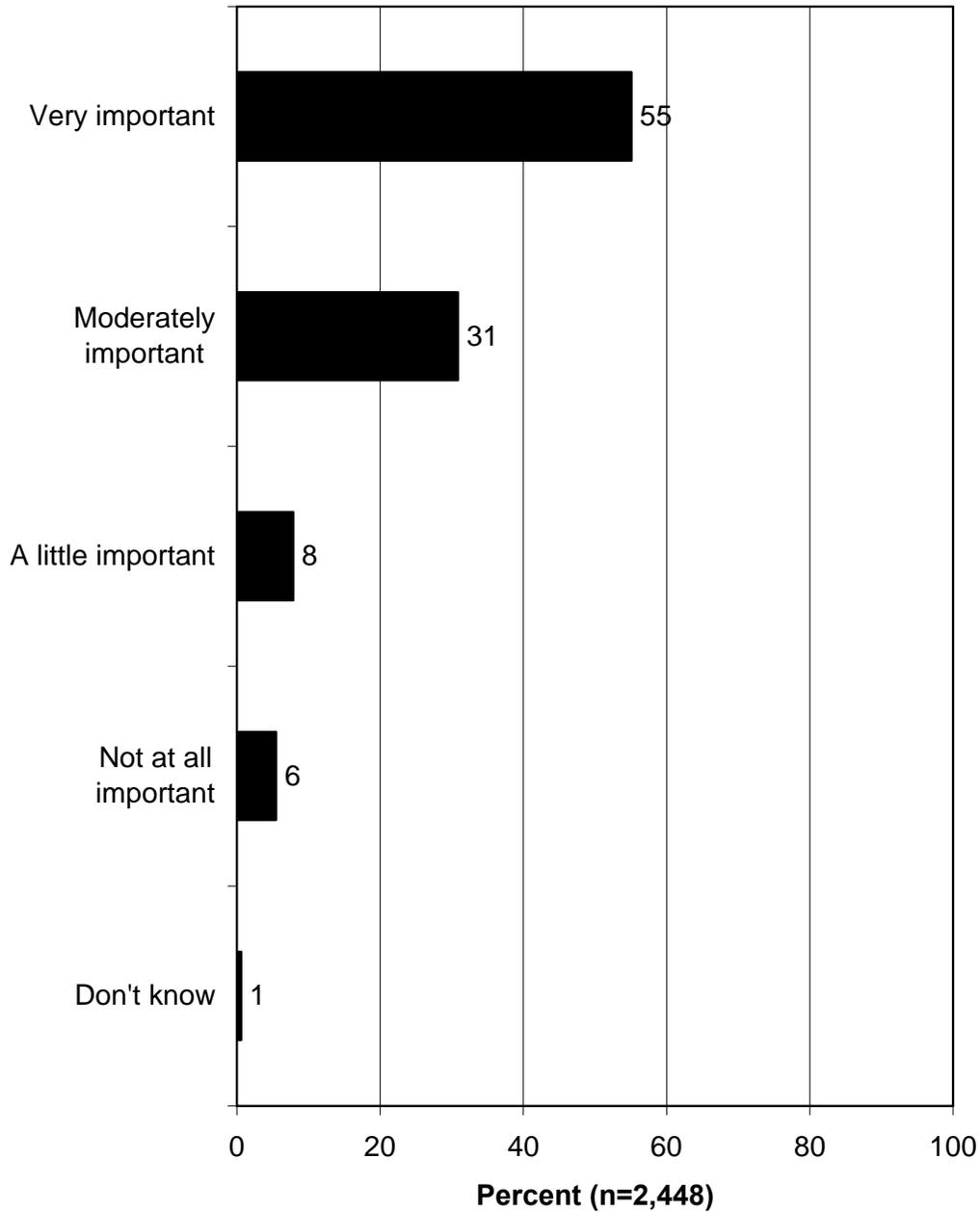


**Q78. Why do you prefer limited quota seasons?  
(Asked of those who prefer limited quota seasons.)  
(Residents versus nonresidents.)**

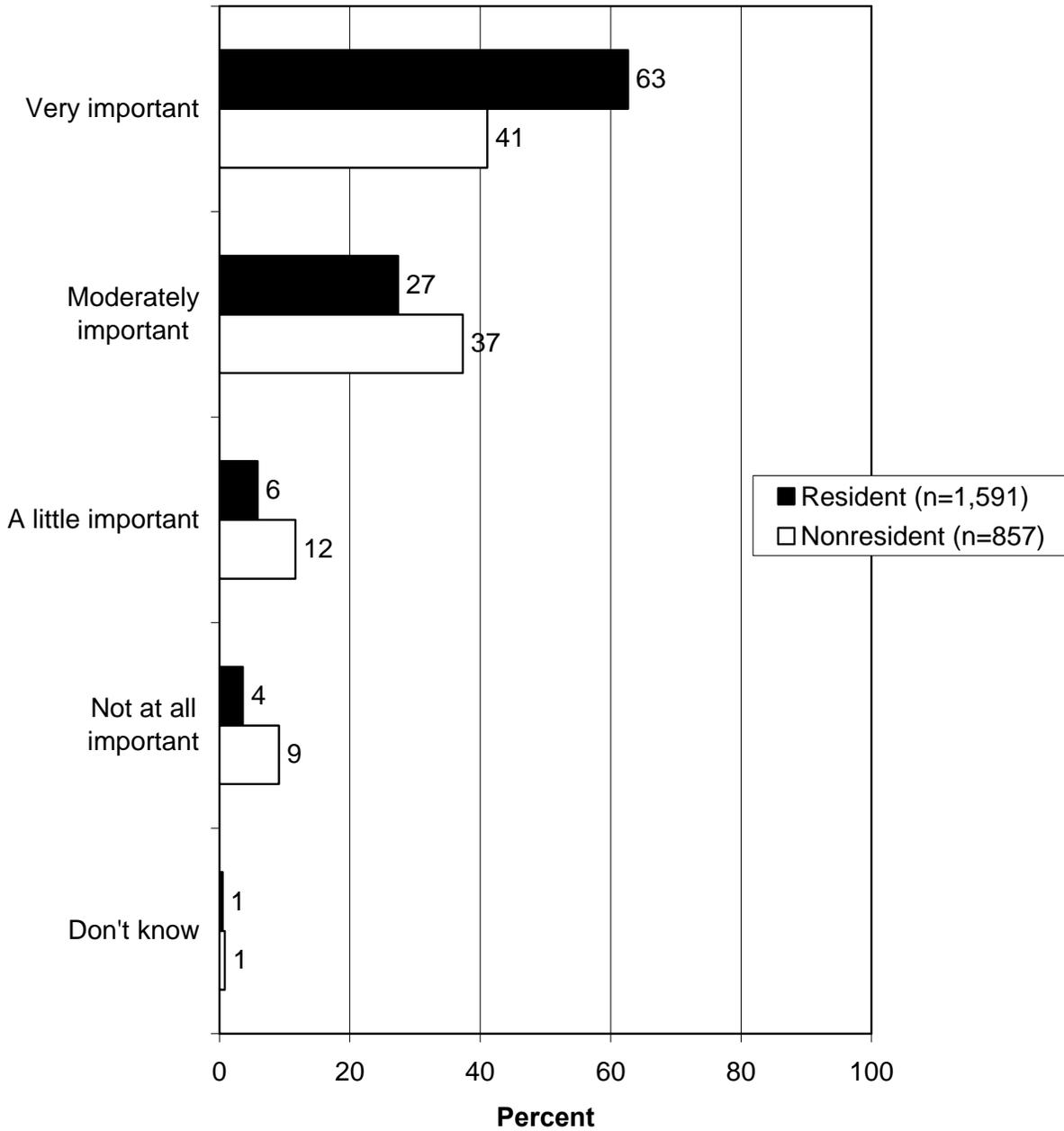


<b>Q78. Why do you prefer limited quota seasons? (Asked of those who prefer limited quota seasons.)</b>										
	<b>Casper (n=124)</b>	<b>Cody (n=203)</b>	<b>Green River (n=125)</b>	<b>Jackson (n=59)</b>	<b>Lander (n=105)</b>	<b>Laramie (n=131)</b>	<b>Pinedale (n=48)</b>	<b>Sheridan (n=148)</b>	<b>Don't know (n=42)</b>	<b>Total</b>
Less crowded	29	44	36	41	35	38	38	41	29	38
Better quality deer	30	22	30	25	25	24	35	21	31	26
Better way to manage deer	25	21	21	24	15	31	29	32	21	24
Better chance of harvest	14	14	22	14	14	18	13	14	10	15
Better hunting in general	6	3	5	8	9	2	4	1	5	4
Doesn't matter about what season, regulation, etc., because hunts specific areas	2	3	1	0	6	0	2	0	0	2
Better season timing	0	2	0	0	2	1	2	1	0	1
Always did it	1	2	0	0	0	0	0	0	0	1
Other	4	4	2	3	3	4	0	4	10	4
Don't know / no useable answer	6	3	2	3	6	5	0	3	2	4

**Q73. How important is it to you, personally, to hunt mule deer in Wyoming every year?  
(Statewide: residents and nonresidents.)**

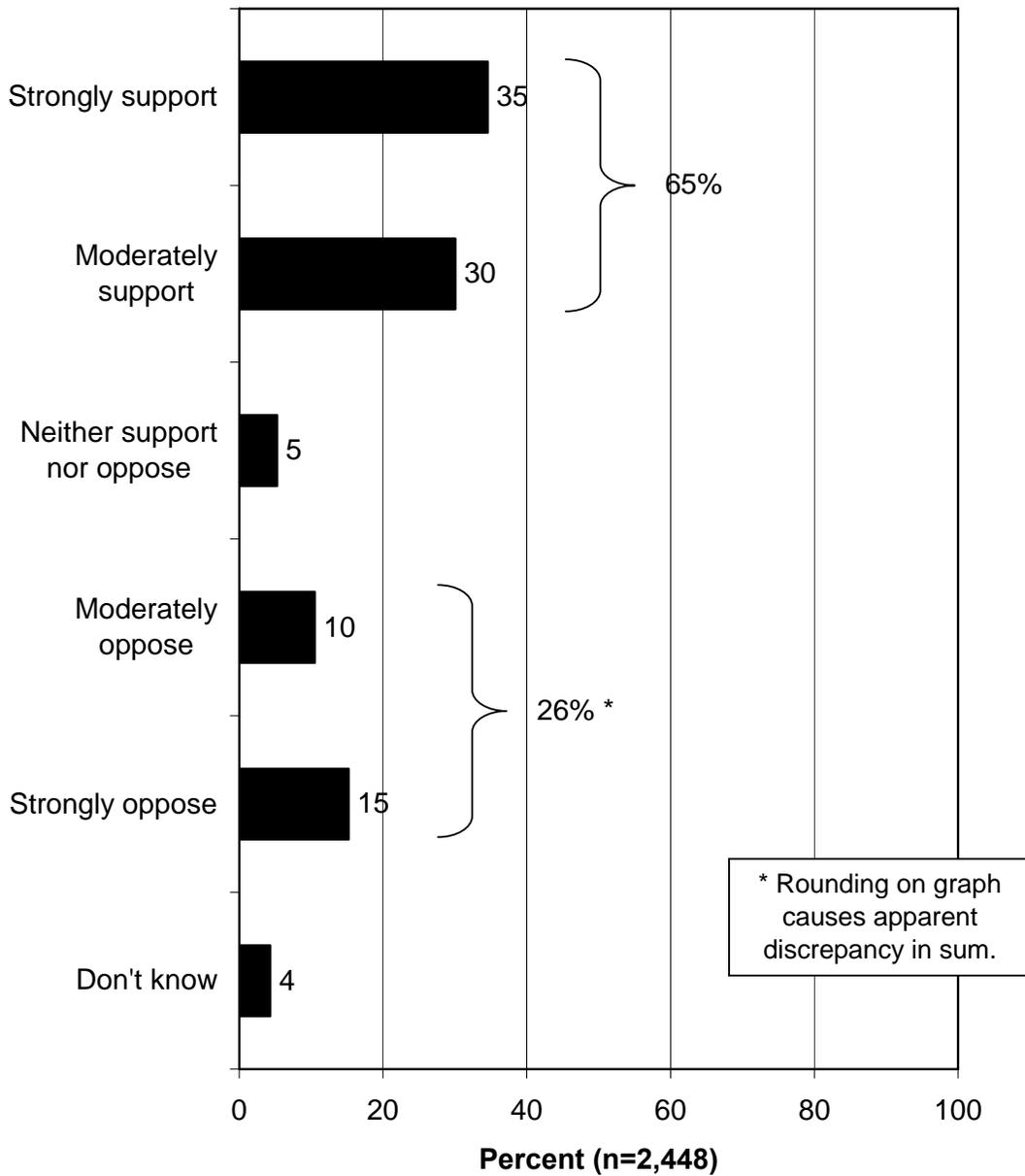


**Q73. How important is it to you, personally, to hunt mule deer in Wyoming every year?  
(Residents versus nonresidents.)**



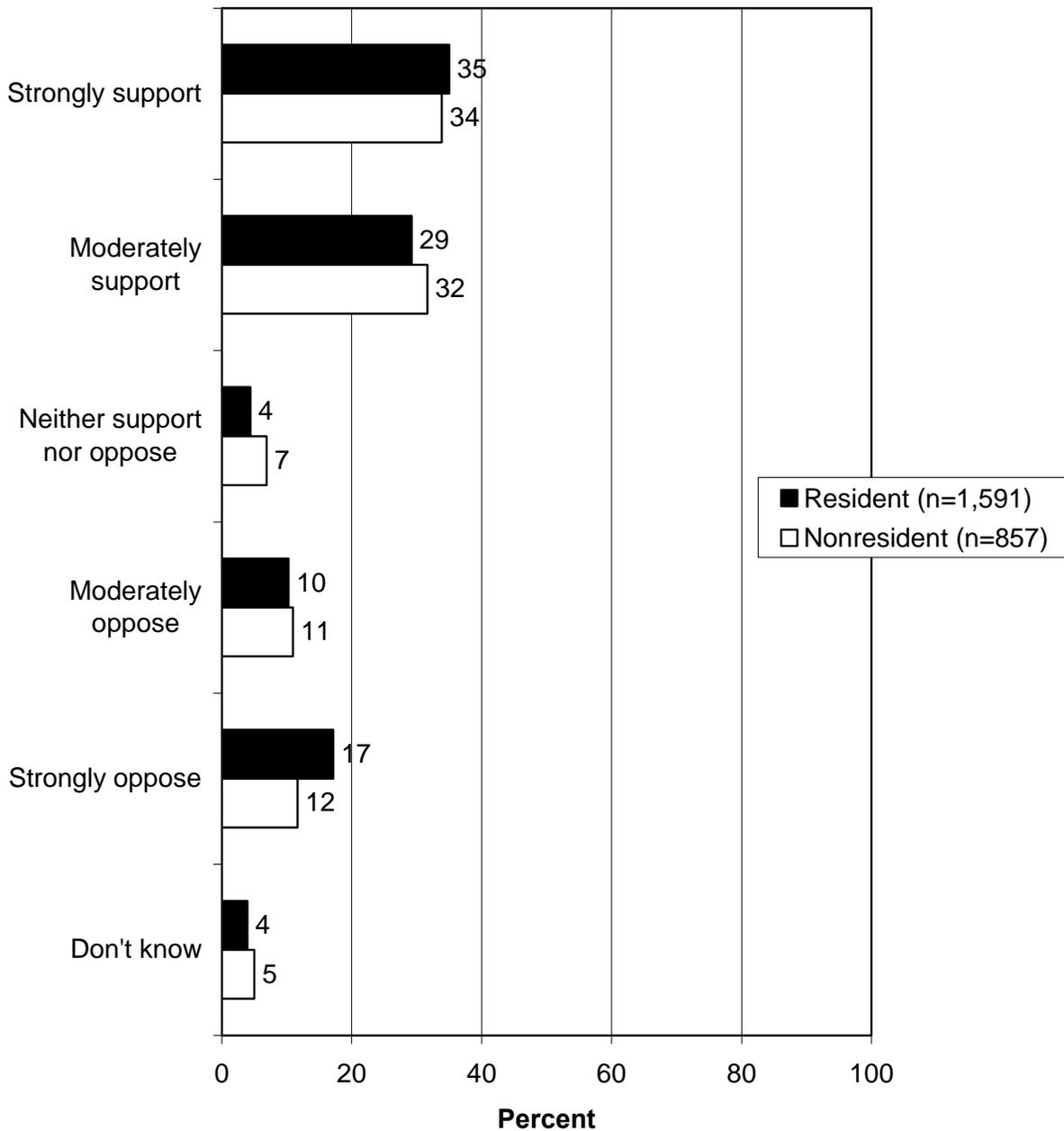
<b>Q73. How important is it to you, personally, to hunt mule deer in Wyoming every year?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very important	53	56	63	56	58	53	64	47	54	55
Moderately important	33	30	30	30	28	30	23	36	31	31
A little important	8	8	3	10	8	9	7	9	9	8
Not at all important	5	5	3	4	6	8	6	6	6	6
Don't know	0	1	1	1	0	0	0	1	0	1

**Q74. Would you support or oppose limiting the number of hunters in the field in Wyoming, even if it makes it less likely that you would draw a license?  
(Statewide: residents and nonresidents.)**



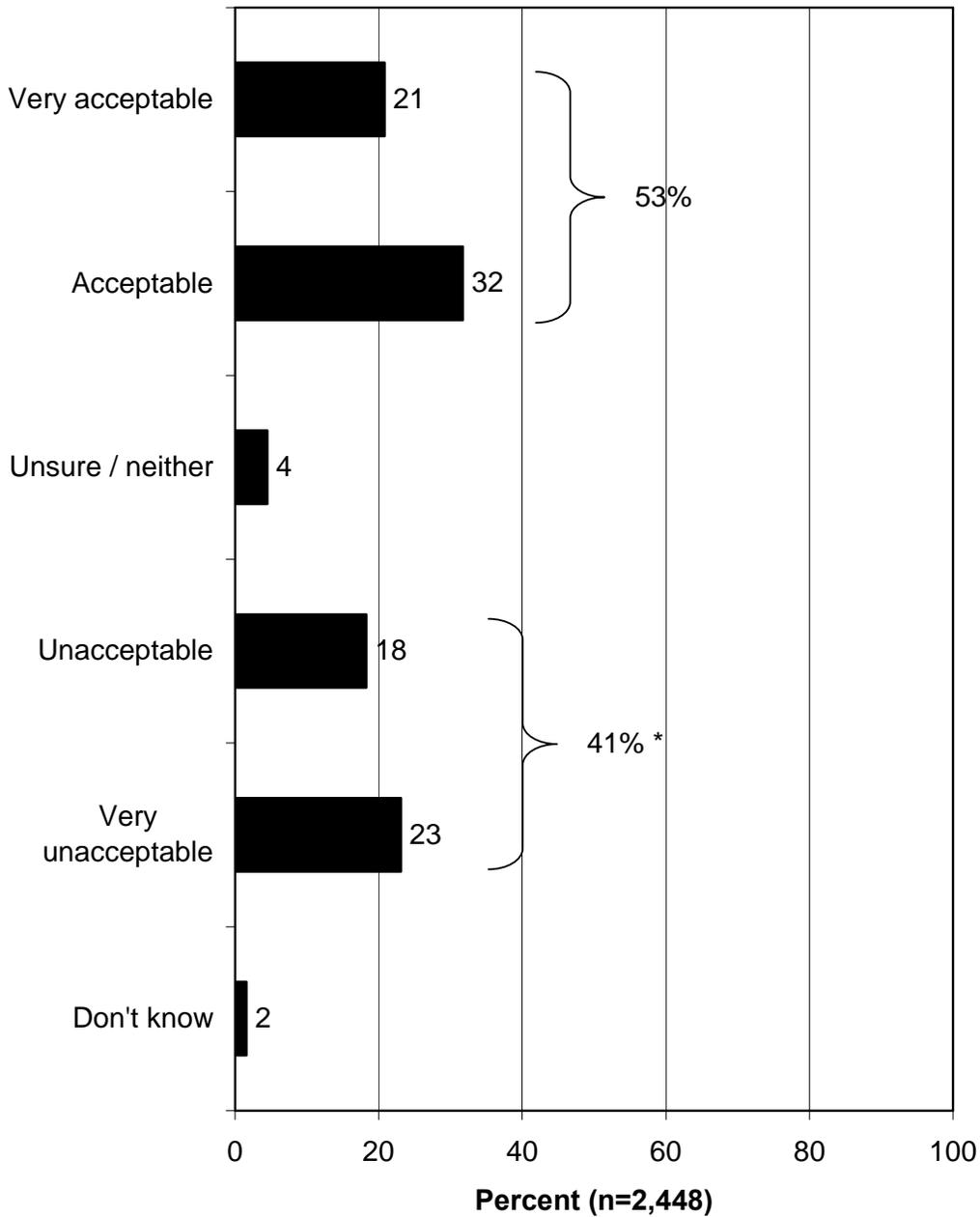
**Q74. Would you support or oppose limiting the number of hunters in the field in Wyoming, even if it makes it less likely that you would draw a license?**

**(Residents versus nonresidents.)**

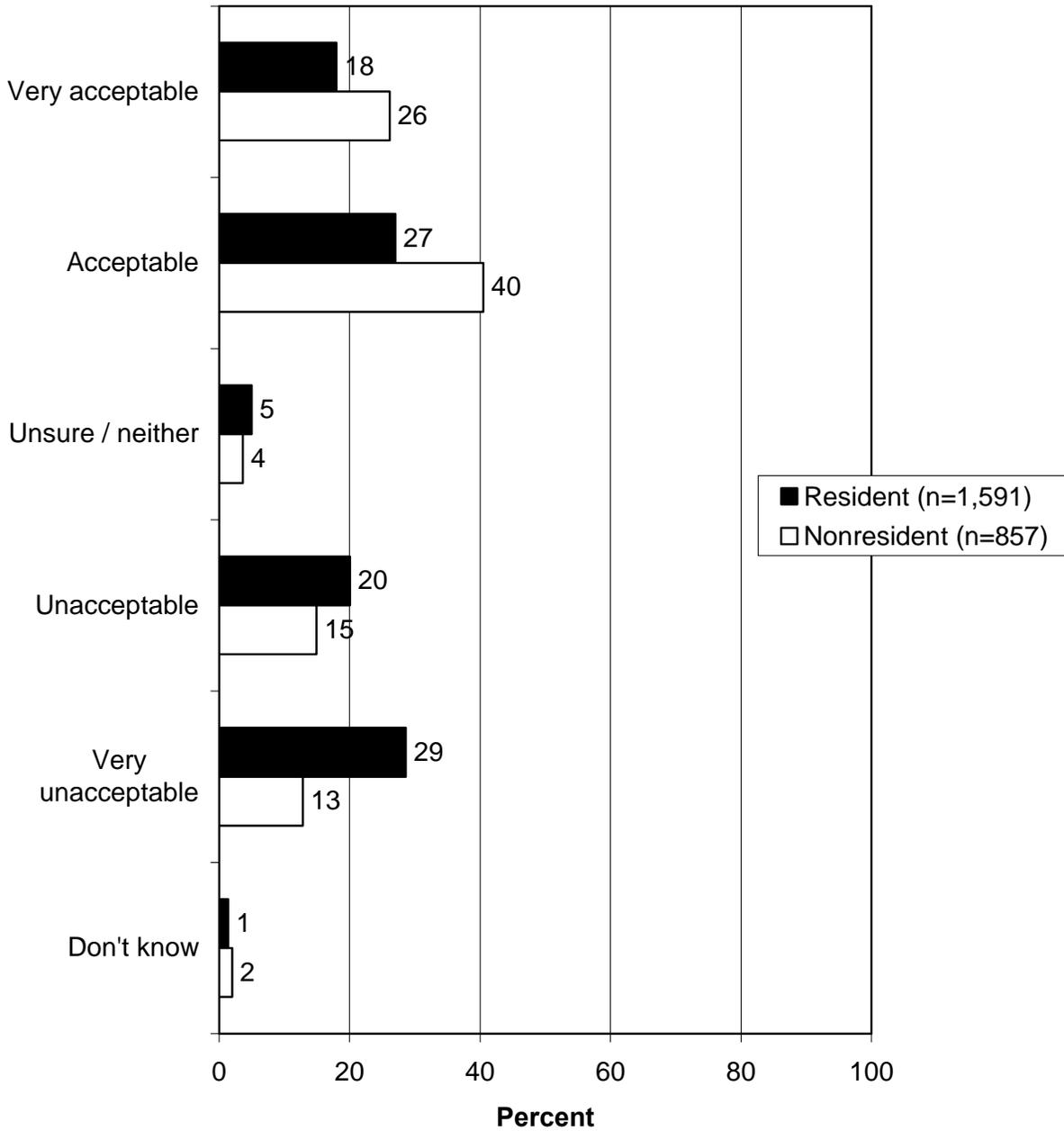


<b>Q74. Would you support or oppose limiting the number of hunters in the field in Wyoming, even if it makes it less likely that you would draw a license?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Strongly support	33	29	40	37	38	40	44	29	31	35
Moderately support	30	31	27	34	30	32	27	29	33	30
Neither support nor oppose	5	6	4	4	7	7	3	5	6	5
Moderately oppose	15	14	8	10	7	6	6	12	11	10
Strongly oppose	13	16	17	13	15	12	16	19	11	15
Don't know	5	4	4	3	2	3	4	5	8	4

**Q75. How acceptable or unacceptable is it to you to only be able to hunt in one hunt area every year?  
(Statewide: residents and nonresidents.)**

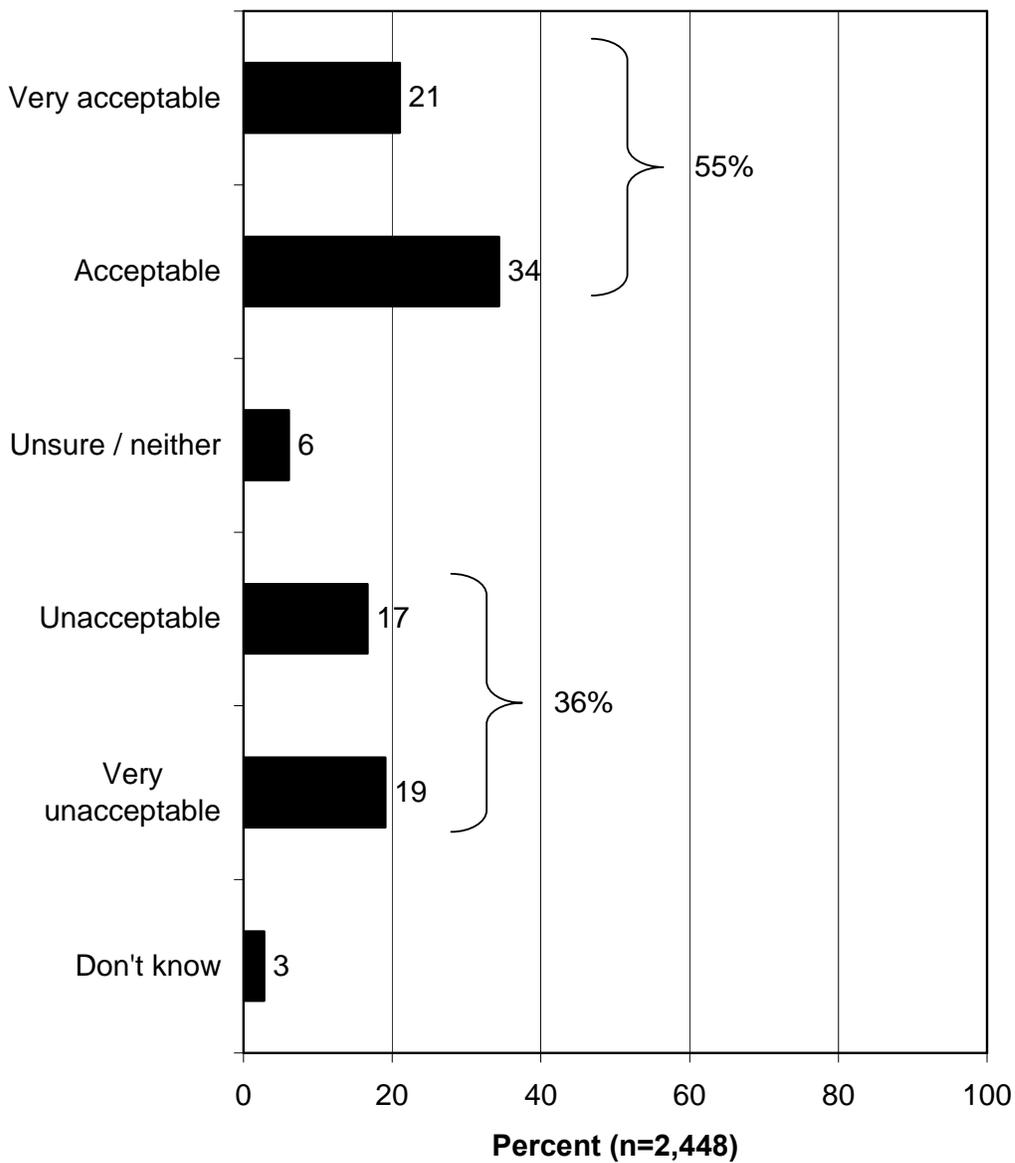


**Q75. How acceptable or unacceptable is it to you to be able to hunt only in one hunt area every year?  
(Residents versus nonresidents.)**

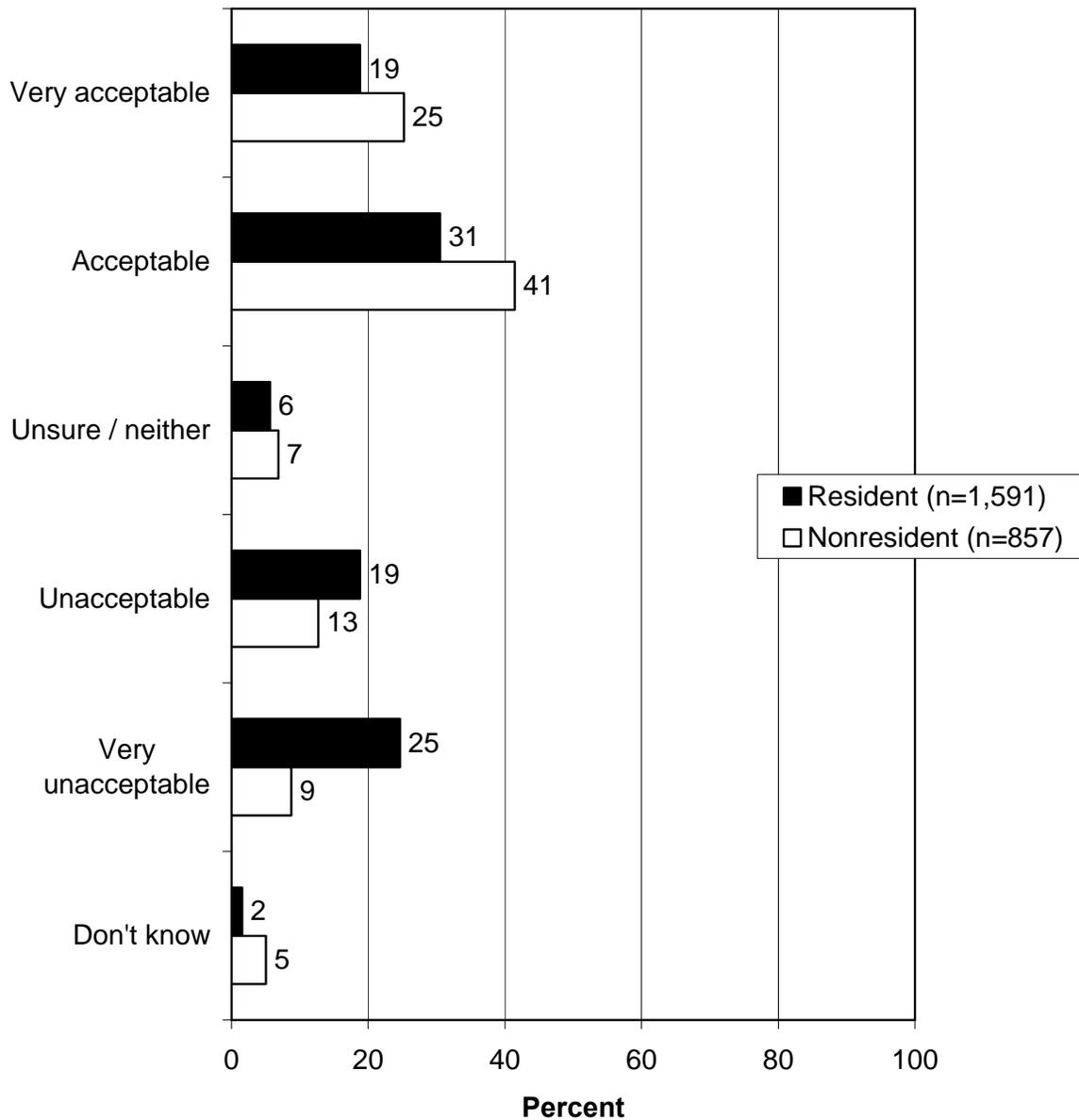


<b>Q75. How acceptable or unacceptable is it to you to be able to hunt only in one hunt area every year?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very acceptable	23	20	22	24	23	21	28	15	20	21
Acceptable	40	33	26	30	31	30	22	32	38	32
Unsure / neither	4	5	3	2	6	5	2	7	3	4
Unacceptable	13	21	18	16	15	21	20	20	15	18
Very unacceptable	16	21	29	28	24	21	27	24	22	23
Don't know	3	1	3	1	1	2	0	1	2	2

**Q79. If the Wyoming Game and Fish Department were to use limited quota seasons for mule deer hunting, how acceptable or unacceptable would limited quota seasons in all hunt areas in Wyoming be to you?  
(Statewide: residents and nonresidents.)**

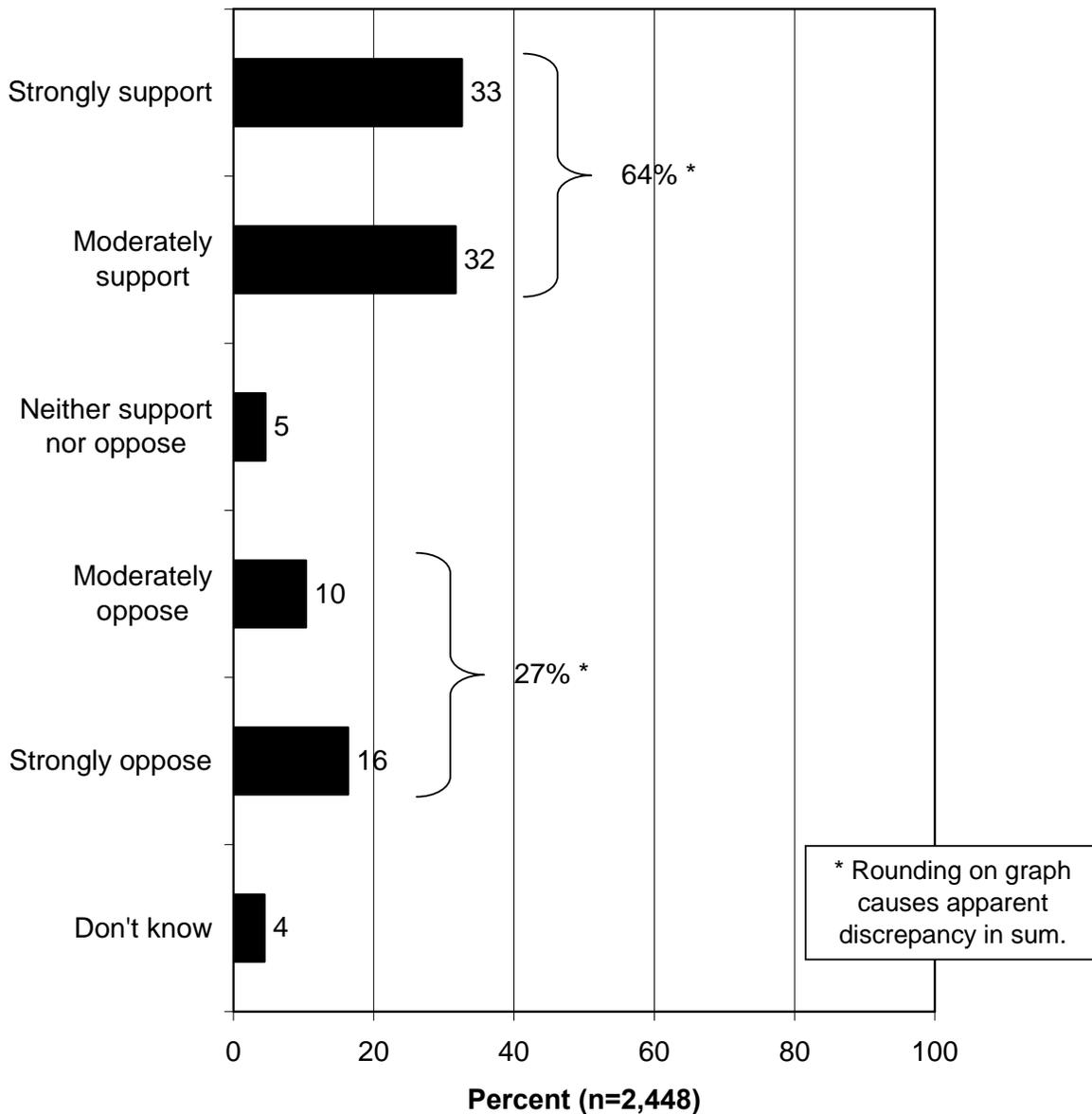


**Q79. If the Wyoming Game and Fish Department were to use limited quota seasons for mule deer hunting, how acceptable or unacceptable would limited quota seasons in all hunt areas in Wyoming be to you?  
(Residents versus nonresidents.)**

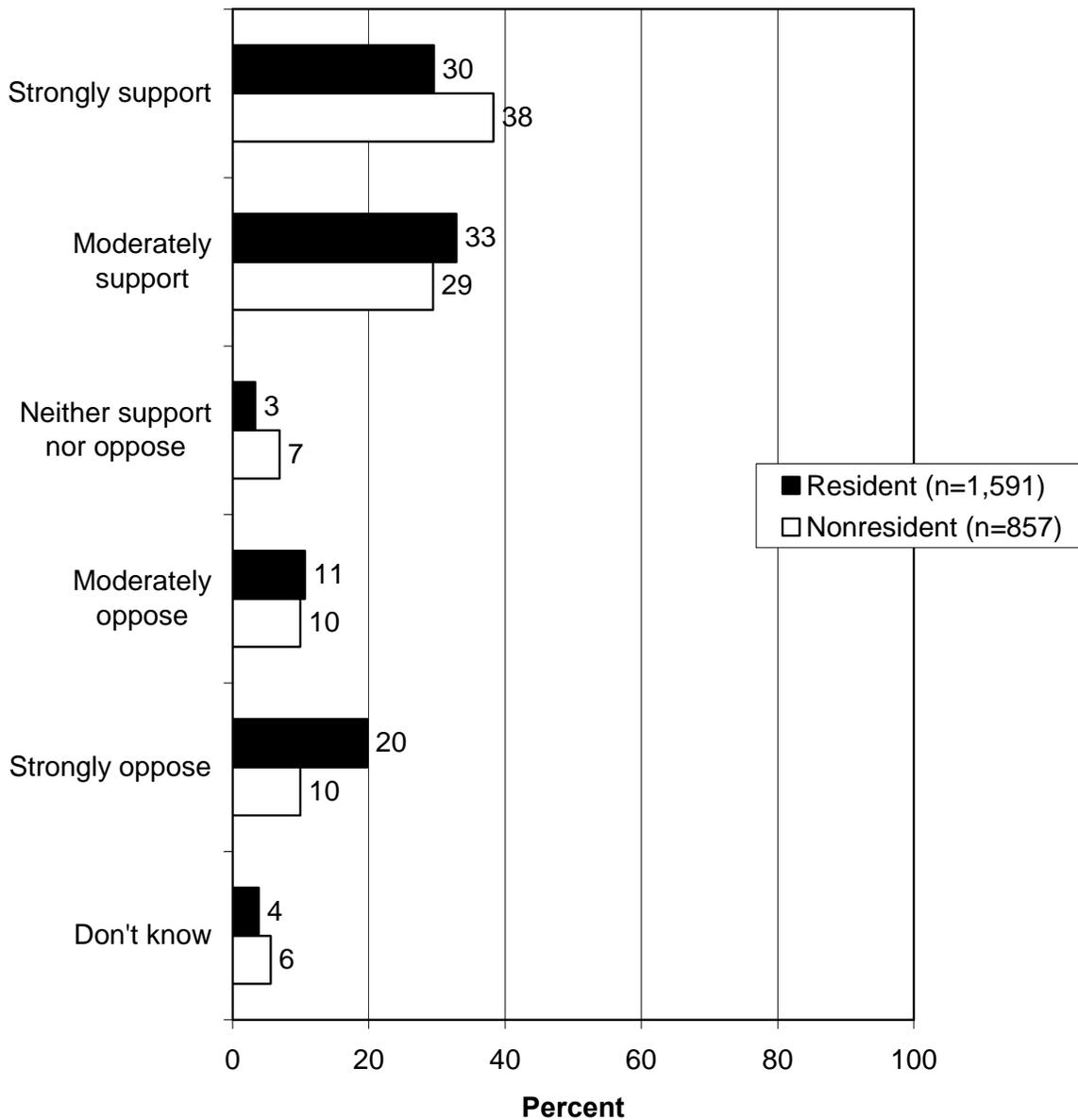


<b>Q79. If the Wyoming Game and Fish Department were to use limited quota seasons for mule deer hunting, how acceptable or unacceptable would limited quota seasons in all hunt areas in Wyoming be to you?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very acceptable	23	20	23	25	20	20	25	19	18	21
Acceptable	39	30	30	32	37	39	27	36	36	34
Unsure / neither	9	6	7	7	2	6	5	6	7	6
Unacceptable	12	19	16	16	16	14	20	20	18	17
Very unacceptable	15	23	22	17	24	19	21	15	15	19
Don't know	3	2	3	2	1	2	1	4	7	3

**Q80. Would you support or oppose a hunting season structure in which state residents could obtain a general license but are required to select a region of the state to hunt, similar to the way nonresident hunters do now, in order to reduce hunter numbers?  
(Statewide: residents and nonresidents.)**

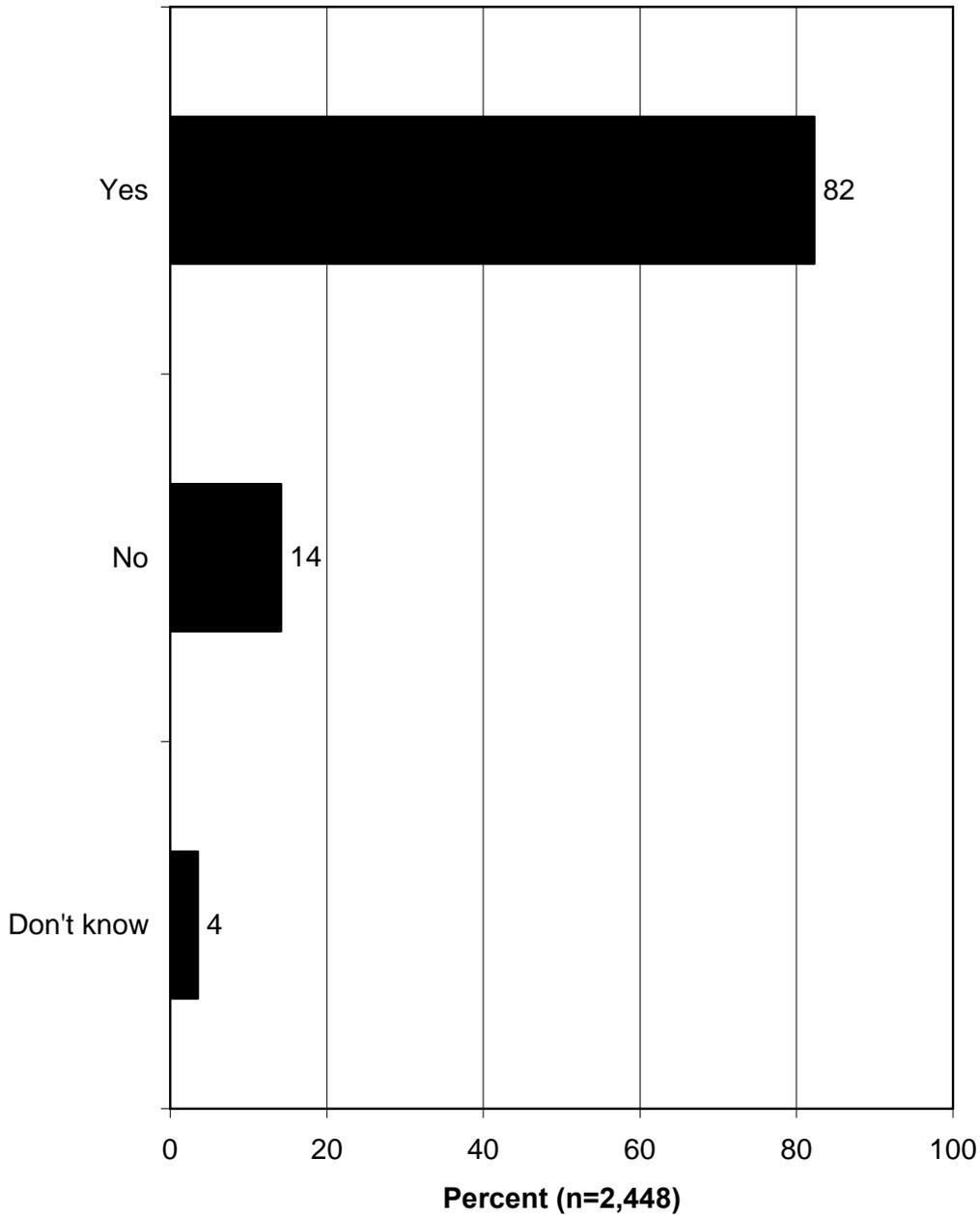


**Q80. Would you support or oppose a hunting season structure in which state residents could obtain a general license but are required to select a region of the state to hunt, similar to the way nonresident hunters do now, in order to reduce hunter numbers? (Residents versus nonresidents.)**

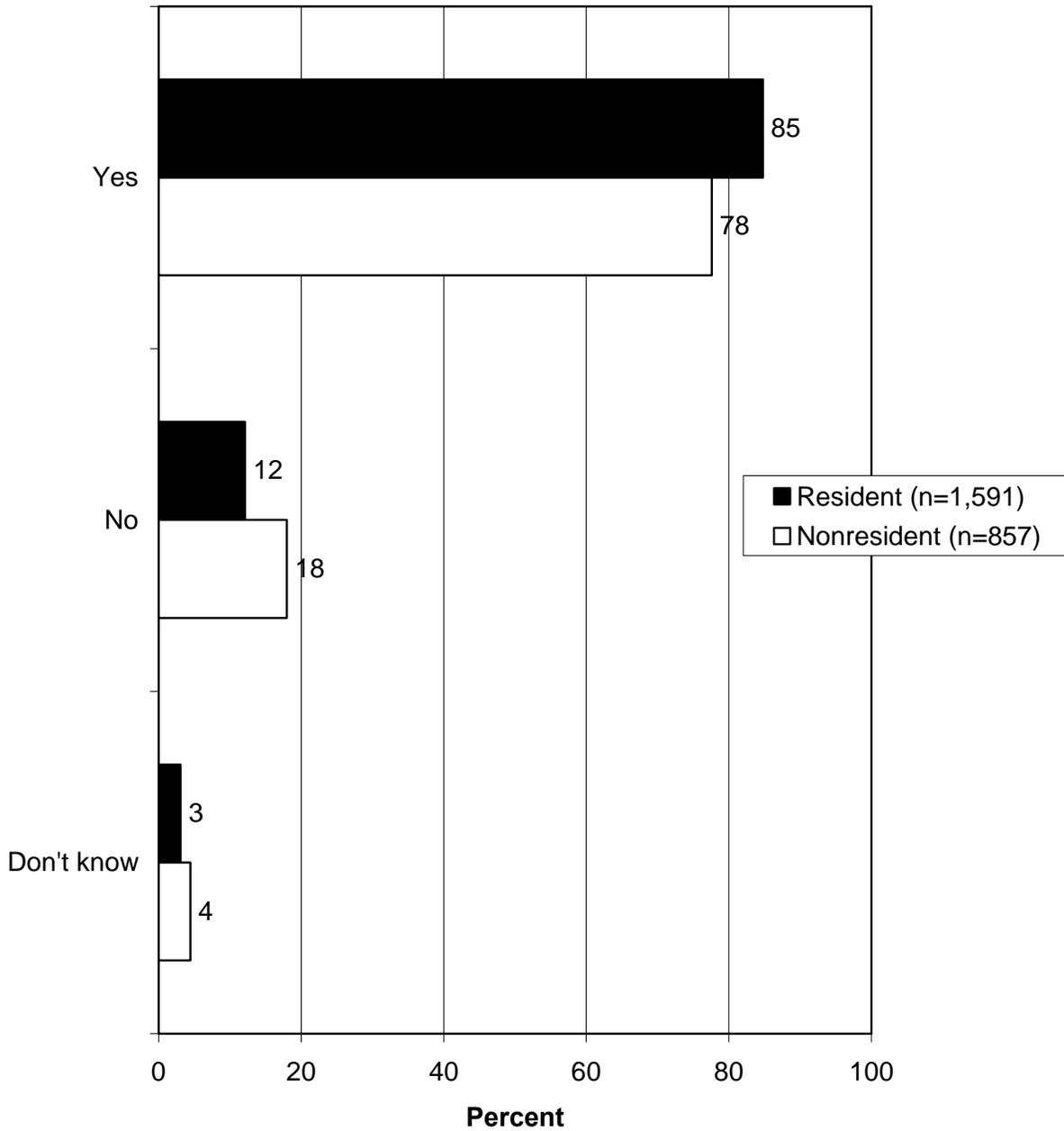


<b>Q80. Would you support or oppose a hunting season structure in which state residents could obtain a general license but are required to select a region of the state to hunt, similar to the way nonresident hunters do now, in order to reduce hunter numbers?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Strongly support	29	30	37	44	32	31	42	32	25	33
Moderately support	32	32	31	30	30	37	23	31	32	32
Neither support nor oppose	6	5	5	3	3	3	3	6	6	5
Moderately oppose	11	13	9	8	10	9	9	10	13	10
Strongly oppose	15	16	15	12	23	16	20	17	17	16
Don't know	7	4	3	3	2	5	4	4	8	4

**Q81. Would you consider delaying your hunt until later in the season if there were a chance of encountering fewer hunters after opening day? (Statewide: residents and nonresidents.)**

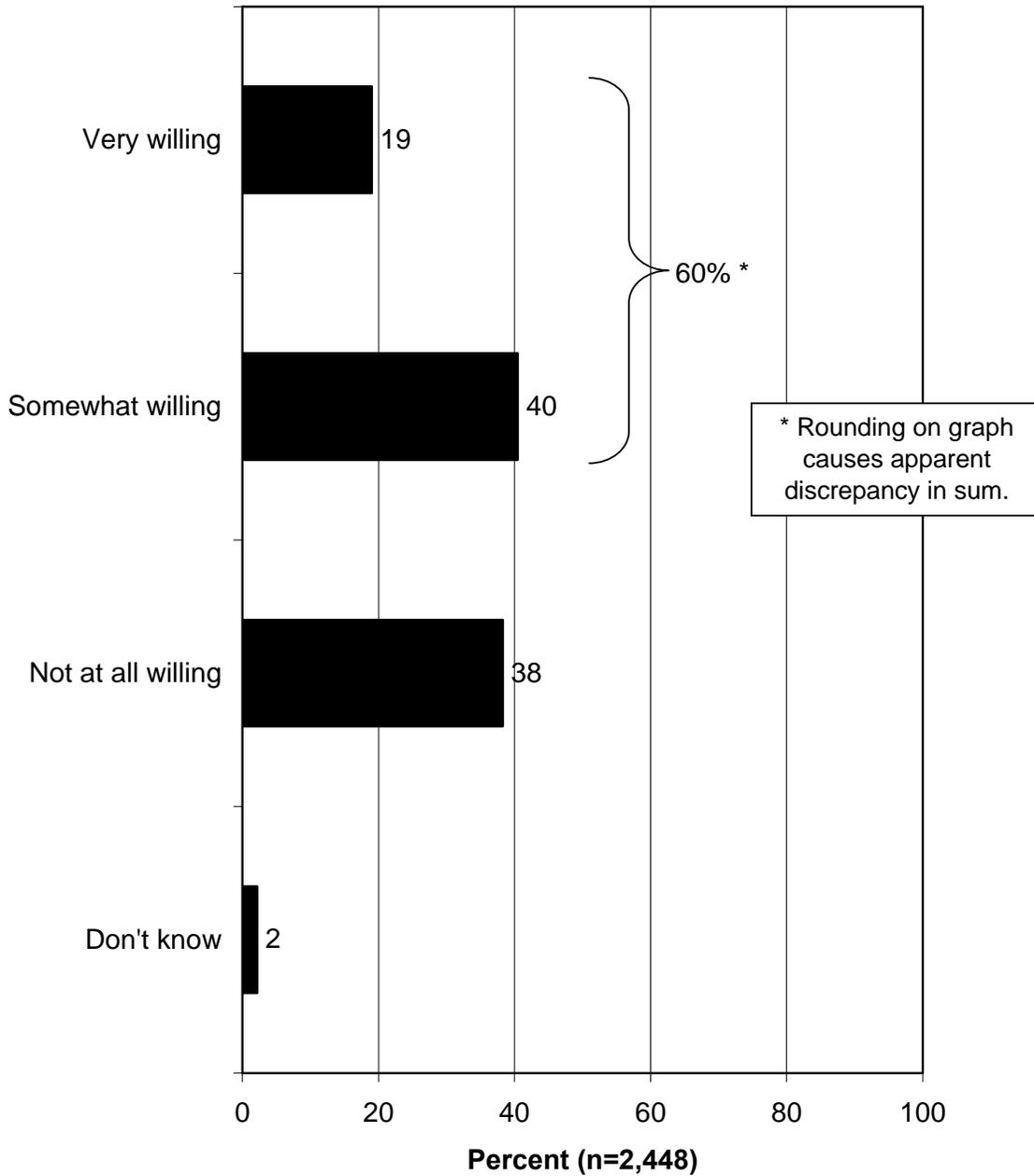


**Q81. Would you consider delaying your hunt until later in the season if there were a chance of encountering fewer hunters after opening day?  
(Residents versus nonresidents.)**

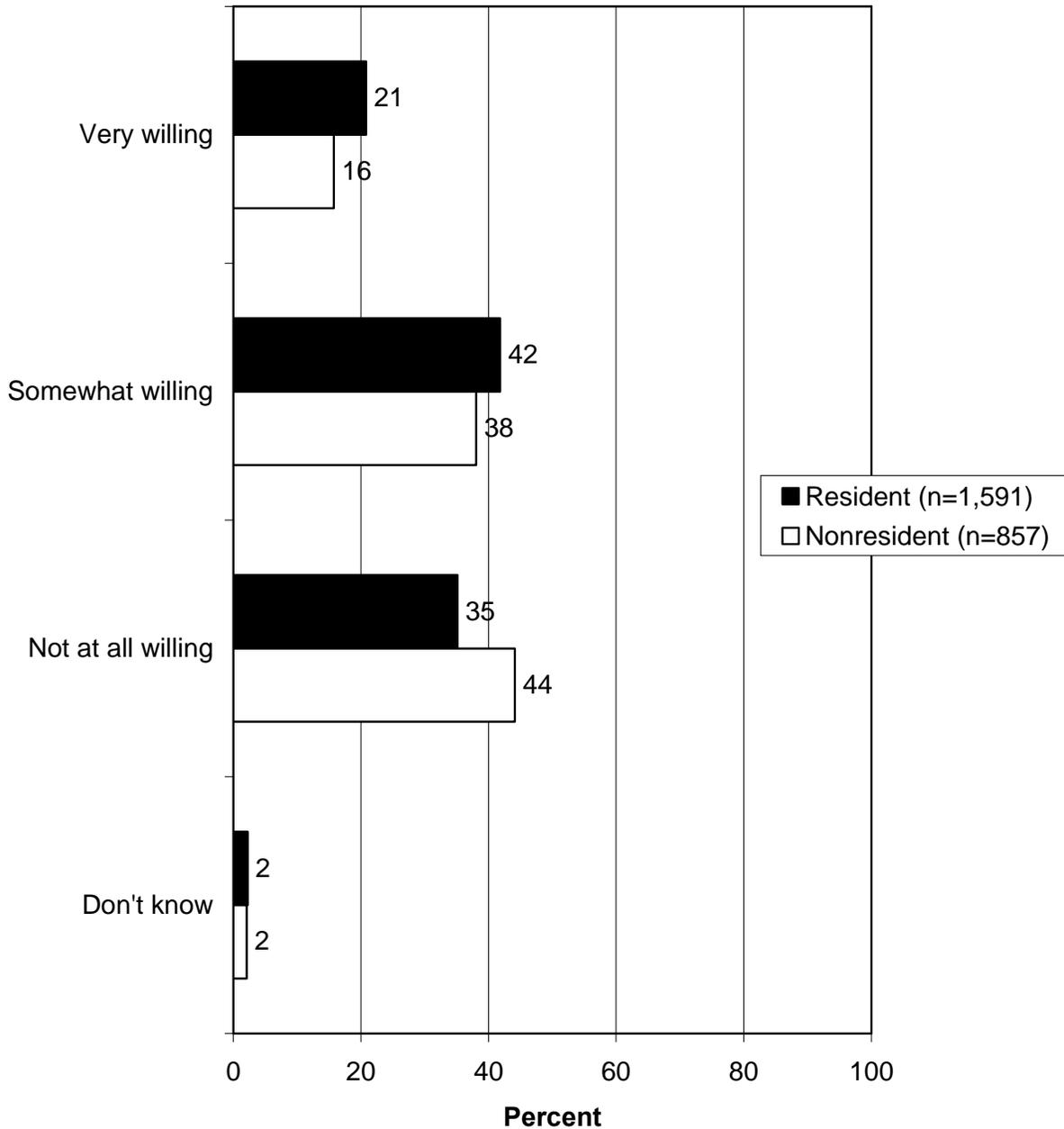


<b>Q81. Would you consider delaying your hunt until later in the season if there were a chance of encountering fewer hunters after opening day?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Yes	80	84	86	84	85	81	92	76	82	82
No	17	14	11	12	12	16	6	18	10	14
Don't know	3	2	3	4	4	3	2	6	8	4

**Q82. How willing would you be to pay more than the current fee for a mule deer license if it meant you might encounter fewer hunters in the field?  
(Statewide: residents and nonresidents.)**

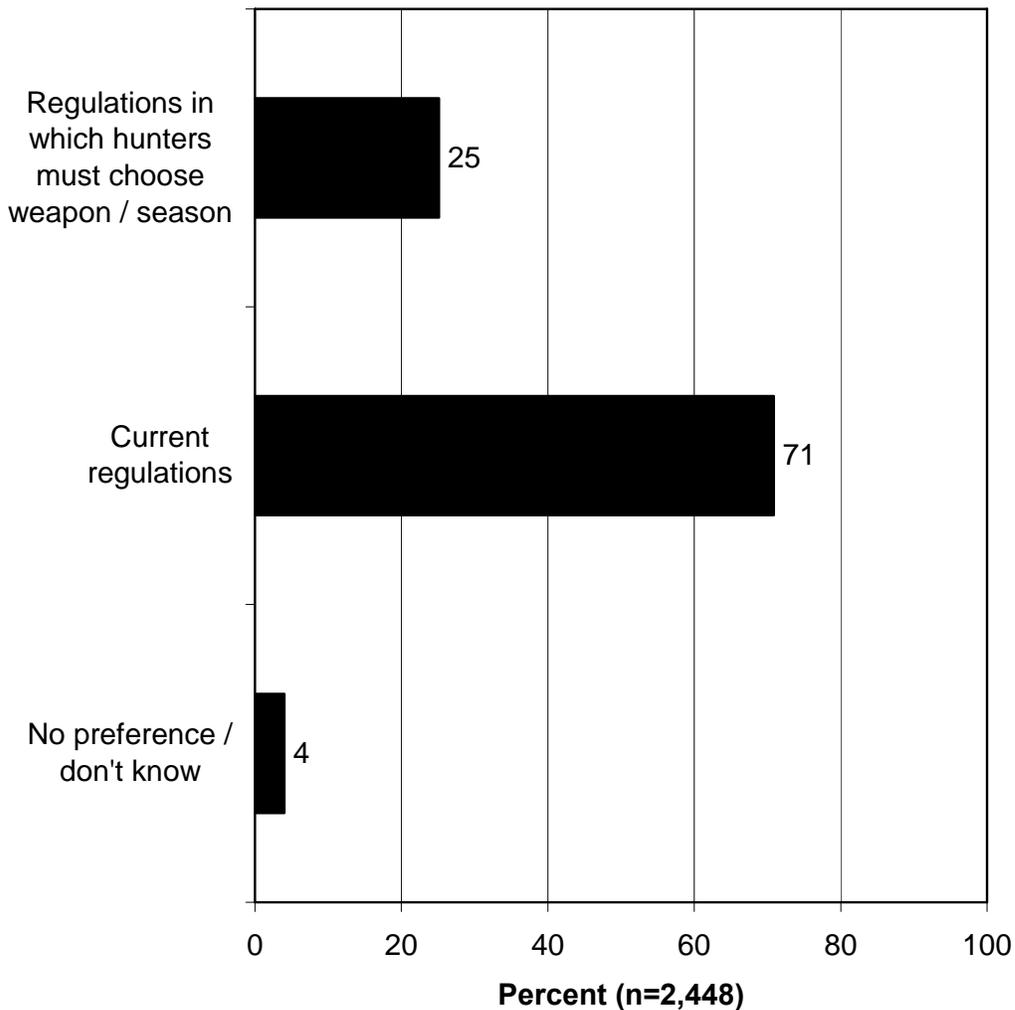


**Q82. How willing would you be to pay more than the current fee for a mule deer license if it meant you might encounter fewer hunters in the field?  
(Residents versus nonresidents.)**

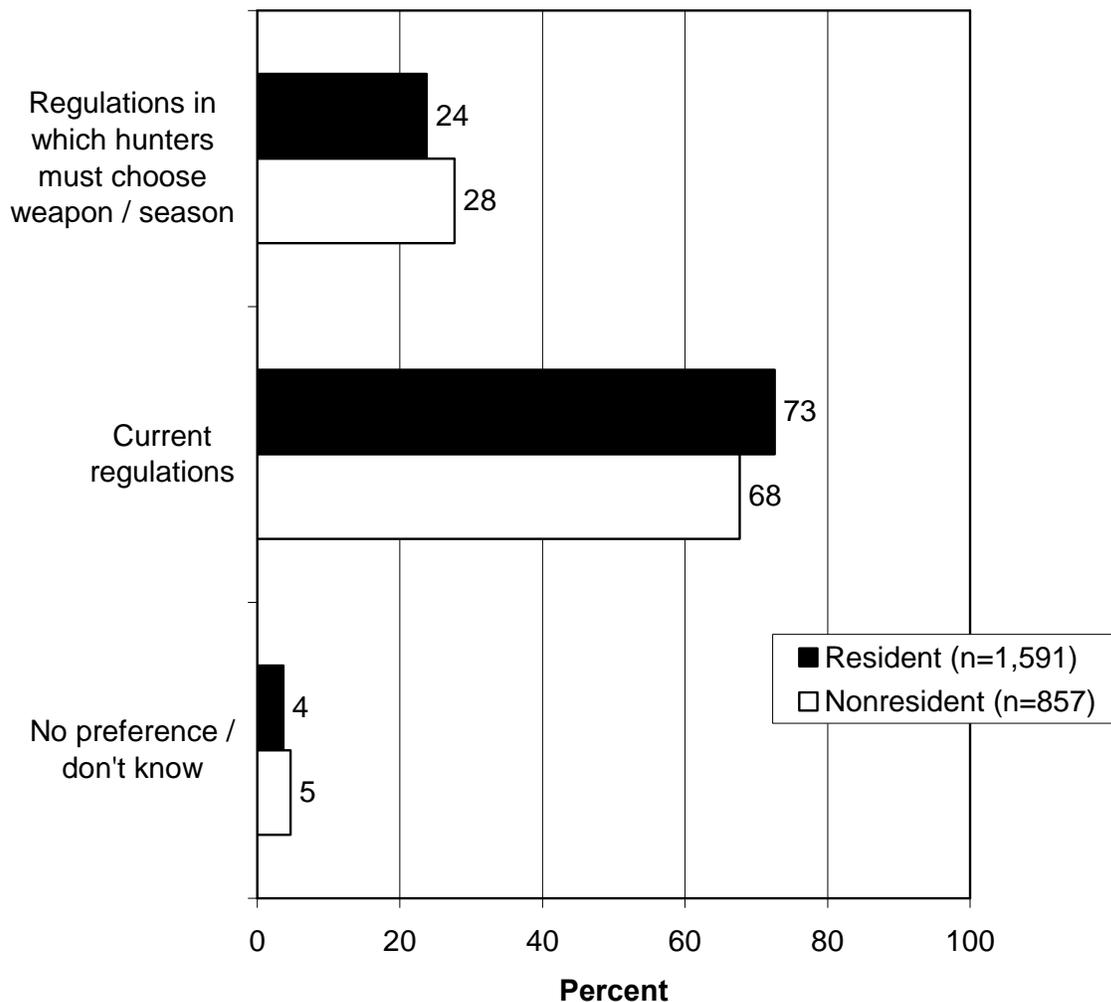


<b>Q82. How willing would you be to pay more than the current fee for a mule deer license if it meant you might encounter fewer hunters in the field?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very willing	18	18	20	23	21	22	27	13	22	19
Somewhat willing	42	38	46	45	40	39	40	39	36	40
Not at all willing	38	41	32	32	38	37	33	46	34	38
Don't know	3	3	2	1	1	2	0	2	8	2

**Q85. Would you prefer regulations in which hunters must choose to hunt on a license valid for archery hunting or to hunt on a license valid for firearm hunting but not both, or would you prefer the current regulations? (Prior to the question, respondents were informed of the following: Currently in Wyoming, mule deer hunters can, in most situations, archery hunt with their license during the special archery season and, if unsuccessful, hunt later on with any legal weapon during the firearms season.) (Statewide: residents and nonresidents.)**



**Q85. Would you prefer regulations in which hunters must choose to hunt on a license valid for archery hunting or to hunt on a license valid for firearm hunting but not both, or would you prefer the current regulations? (Prior to the question, respondents were informed of the following: Currently in Wyoming, mule deer hunters can, in most situations, archery hunt with their license during the special archery season and, if unsuccessful, hunt later on with any legal weapon during the firearms season.)**  
**(Residents versus nonresidents.)**



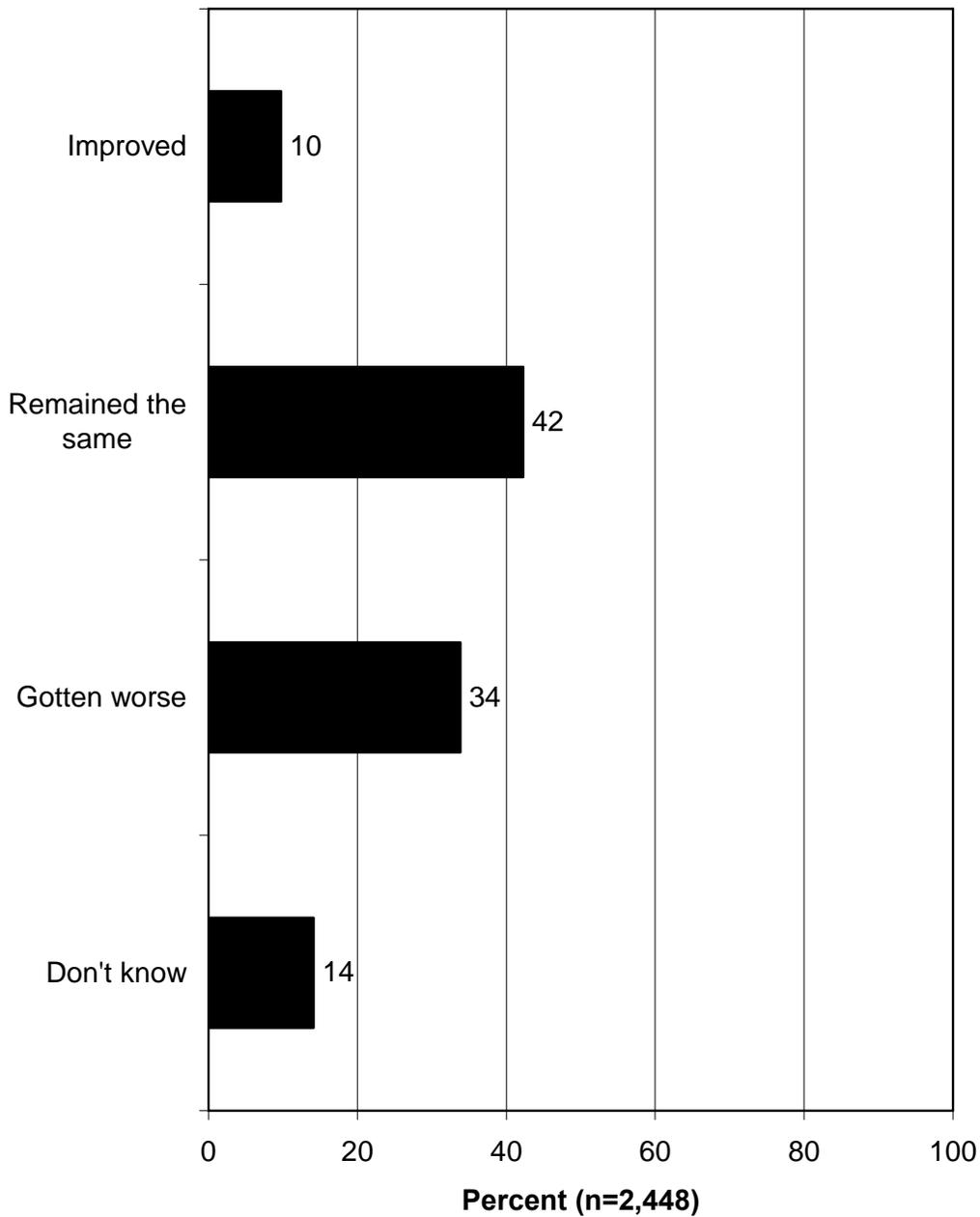
**Q85. Would you prefer regulations in which hunters must choose to hunt on a license valid for archery hunting or to hunt on a license valid for firearm hunting but not both, or would you prefer the current regulations? (Prior to the question, respondents were informed of the following: Currently in Wyoming, mule deer hunters can, in most situations, archery hunt with their license during the special archery season and, if unsuccessful, hunt later on with any legal weapon during the firearms season.)**

	Casper (n=296)	Cody (n=453)	Green River (n=320)	Jackson (n=167)	Lander (n=216)	Laramie (n=323)	Pinedale (n=113)	Sheridan (n=441)	Don't know (n=119)	Total
Regulations in which hunters must choose weapon / season	21	28	24	31	22	23	29	25	25	25
Current regulations	76	67	72	65	74	75	65	70	69	71
No preference / don't know	3	5	4	4	4	2	5	5	6	4

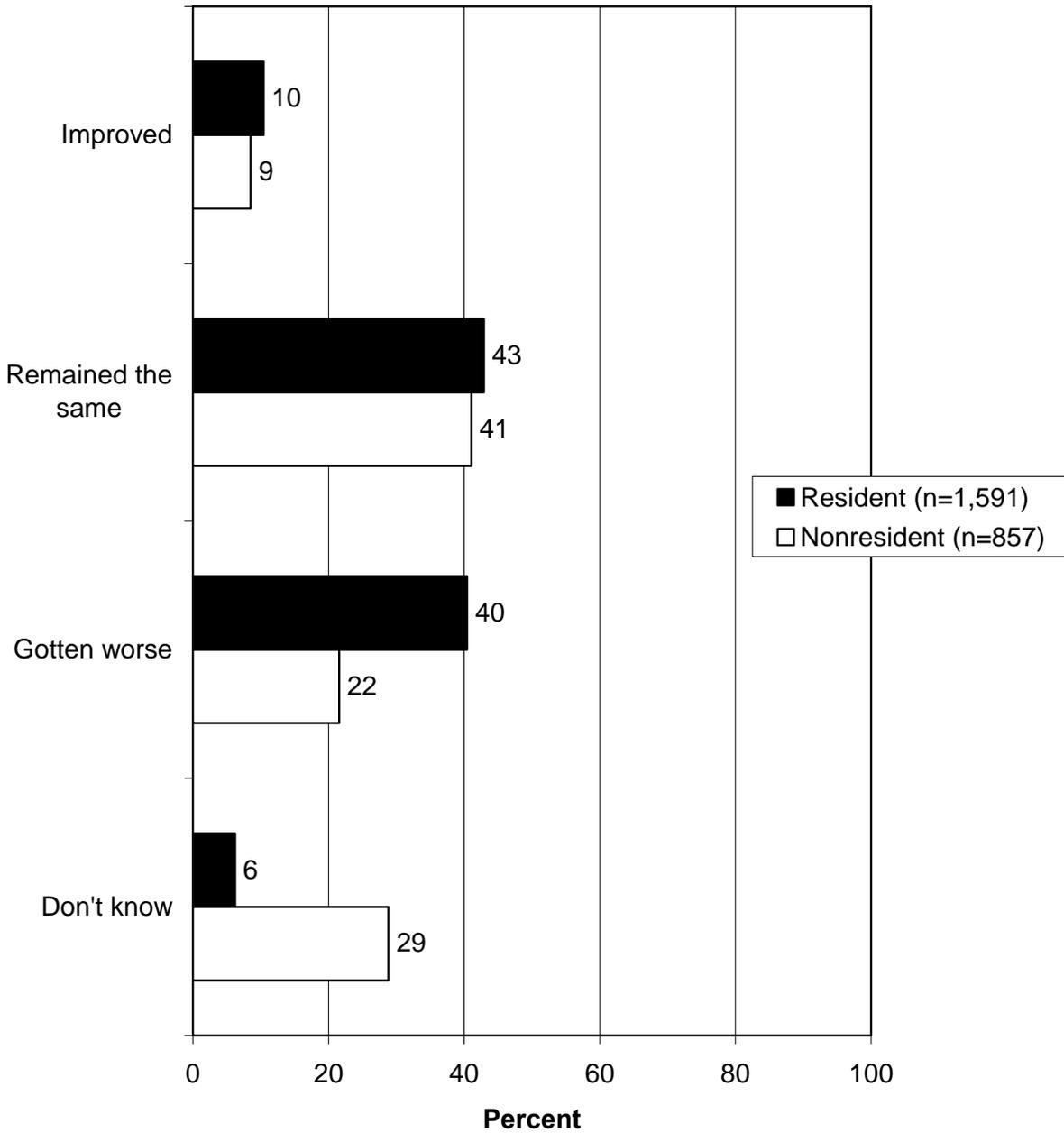
## OPINIONS ON HABITAT MANAGEMENT

- The survey asked about perceptions of the trend in the quality of mule deer habitat in Wyoming over the past 5 years: most commonly, mule deer hunters say the quality has stayed the same (42%), but otherwise the percentage who say it has declined (34%) is more than three times the percentage who say it has improved (10%). Respondents were then asked about the 5-year trend in quality in the area in which they most often hunt: 55% say it has remained the same, with the percentage saying it has gotten worse (27%) exceeding the percentage who say it has improved (10%).
  - On both habitat questions, residents were more likely than were nonresidents to say that the quality of habitat has gotten worse ( $p \leq 0.001$ ).
    - A follow-up question asked those who said that habitat has declined to give their reasoning: the most common answer among mule deer hunters is drought (35% of those who got the question), followed by urban development (13%), livestock grazing (11%), and energy development (10%). The resident/nonresident crosstabulation is shown; the differences are not great between the groups.
  
- In two questions about the quality of habitat on mule deer ranges and the quantity of such habitat, overwhelming majorities say that habitat is *very* important in determining the survival of mule deer in Wyoming.
  - Importance of *quality* of habitat on mule deer survival: 89% say that this is *very* important, and another 9% say that it is *moderately* important (a sum of 98%).
    - Residents and nonresidents are not greatly different on this question.
  - Importance of the *amount* of habitat on mule deer survival: 86% say that this is *very* important, and another 11% say that it is *moderately* important (a sum of 96%). (Rounding causes the apparent discrepancy in the sum.)
    - Residents and nonresidents are not greatly different on this question.

**Q89. Do you think the quality of mule deer habitat in Wyoming has improved, remained the same, or gotten worse in the past 5 years?  
(Statewide: residents and nonresidents.)**

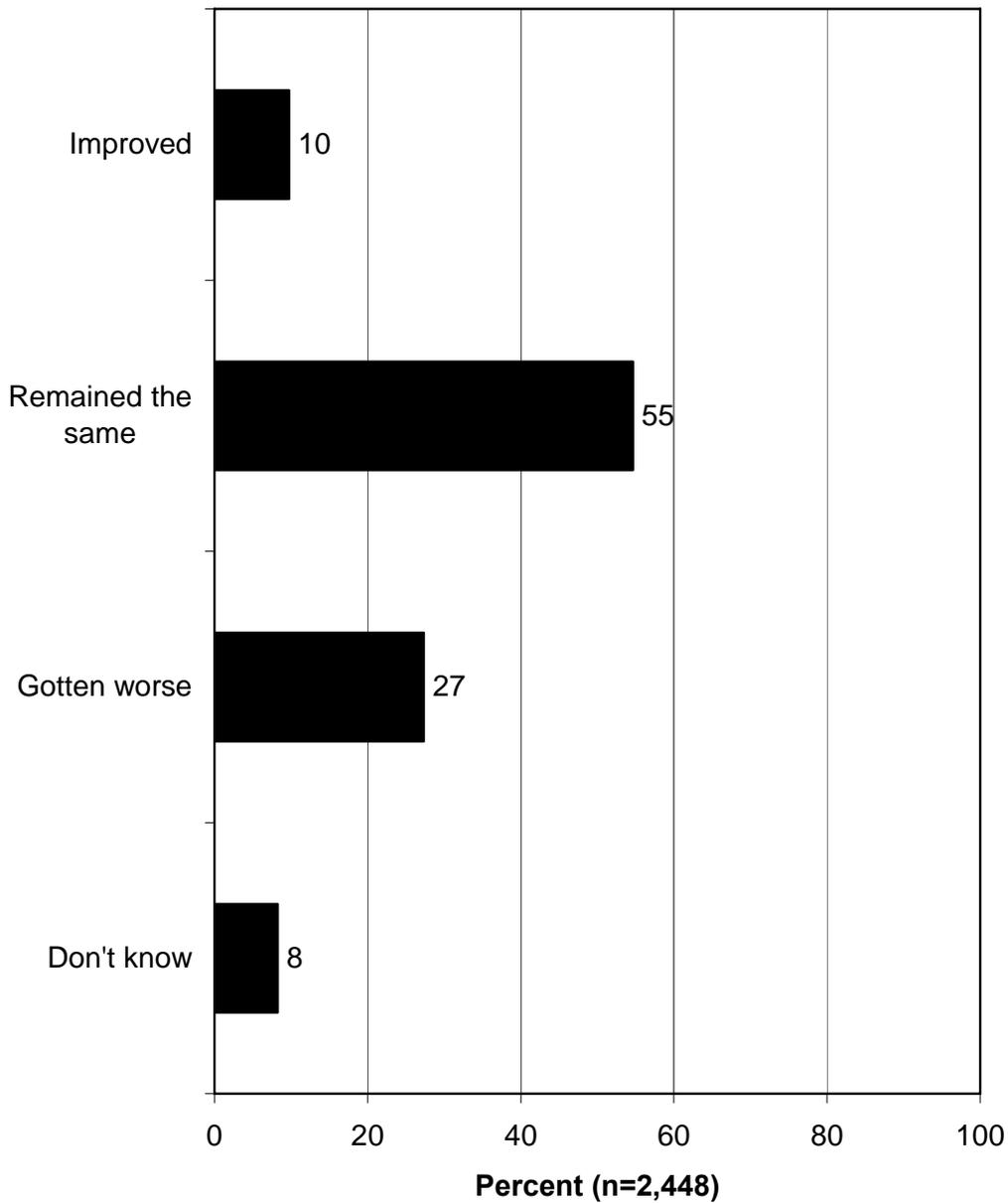


**Q89. Do you think the quality of mule deer habitat in Wyoming has improved, remained the same, or gotten worse in the past 5 years?  
(Residents versus nonresidents.)**

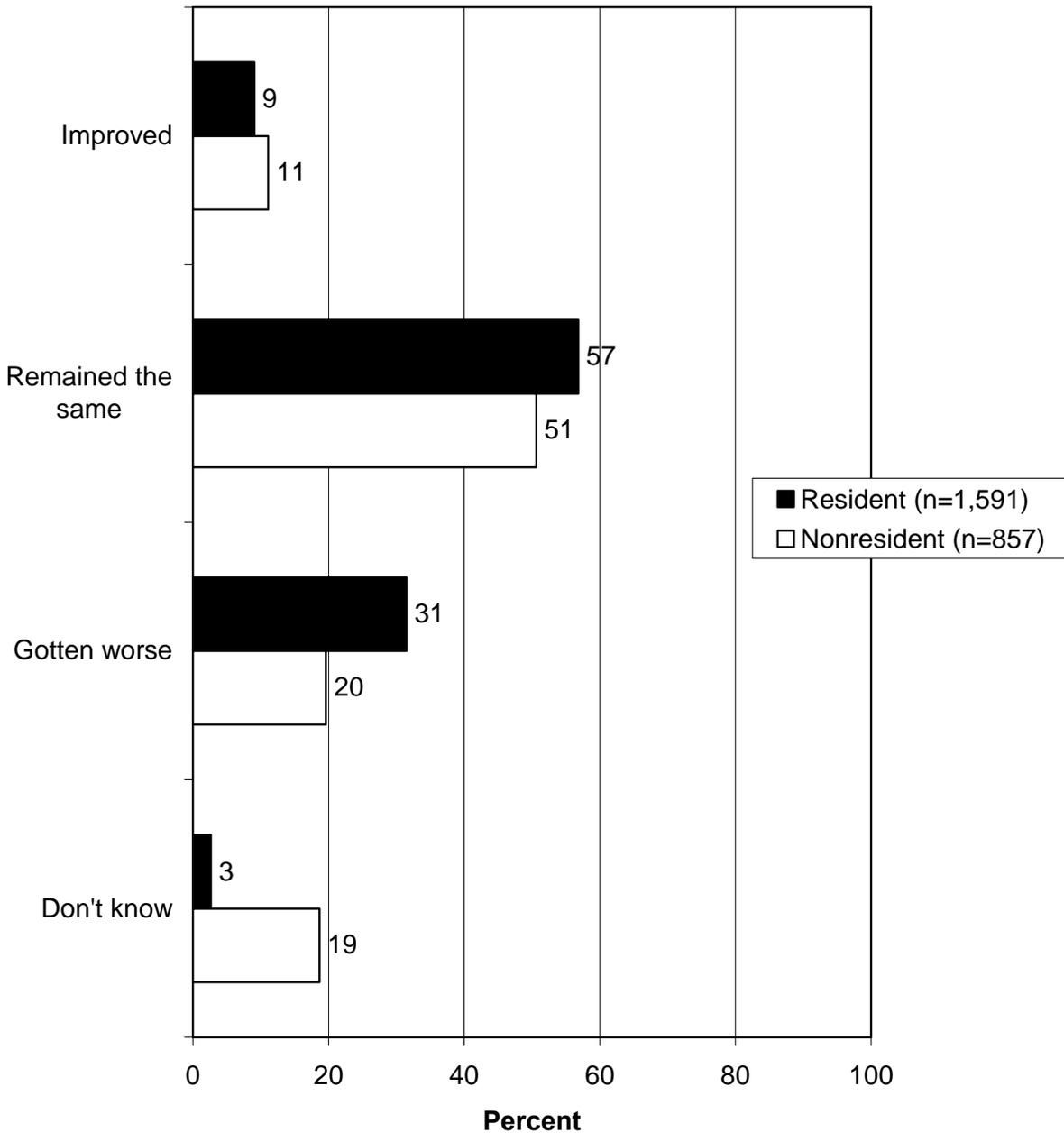


<b>Q89. Do you think the quality of mule deer habitat in Wyoming has improved, remained the same, or gotten worse in the past 5 years?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Improved	7	10	10	8	11	7	10	13	9	10
Remained the same	40	47	41	44	45	38	42	40	45	42
Gotten worse	31	29	41	37	33	40	42	29	29	34
Don't know	21	14	9	11	10	15	5	18	17	14

**Q90. Do you think the quality of mule deer habitat in the hunt area where you most often hunted mule deer in the past 5 years has improved, remained the same, or gotten worse?  
(Statewide: residents and nonresidents.)**



**Q90. Do you think the quality of mule deer habitat in the hunt area where you most often hunted mule deer in the past 5 years has improved, remained the same, or gotten worse?  
(Residents versus nonresidents.)**



**Q90. Do you think the quality of mule deer habitat in the hunt area where you most often hunted mule deer in the past 5 years has improved, remained the same, or gotten worse?**

	Casper (n=296)	Cody (n=453)	Green River (n=320)	Jackson (n=167)	Lander (n=216)	Laramie (n=323)	Pinedale (n=113)	Sheridan (n=441)	Don't know (n=119)	Total
Improved	11	11	8	7	11	9	6	11	9	10
Remained the same	50	60	56	61	54	44	58	56	54	55
Gotten worse	27	21	32	25	29	36	34	24	24	27
Don't know	12	8	3	8	6	11	3	8	13	8

Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.

### 2012 Wyoming Mule Deer Hunt Regions

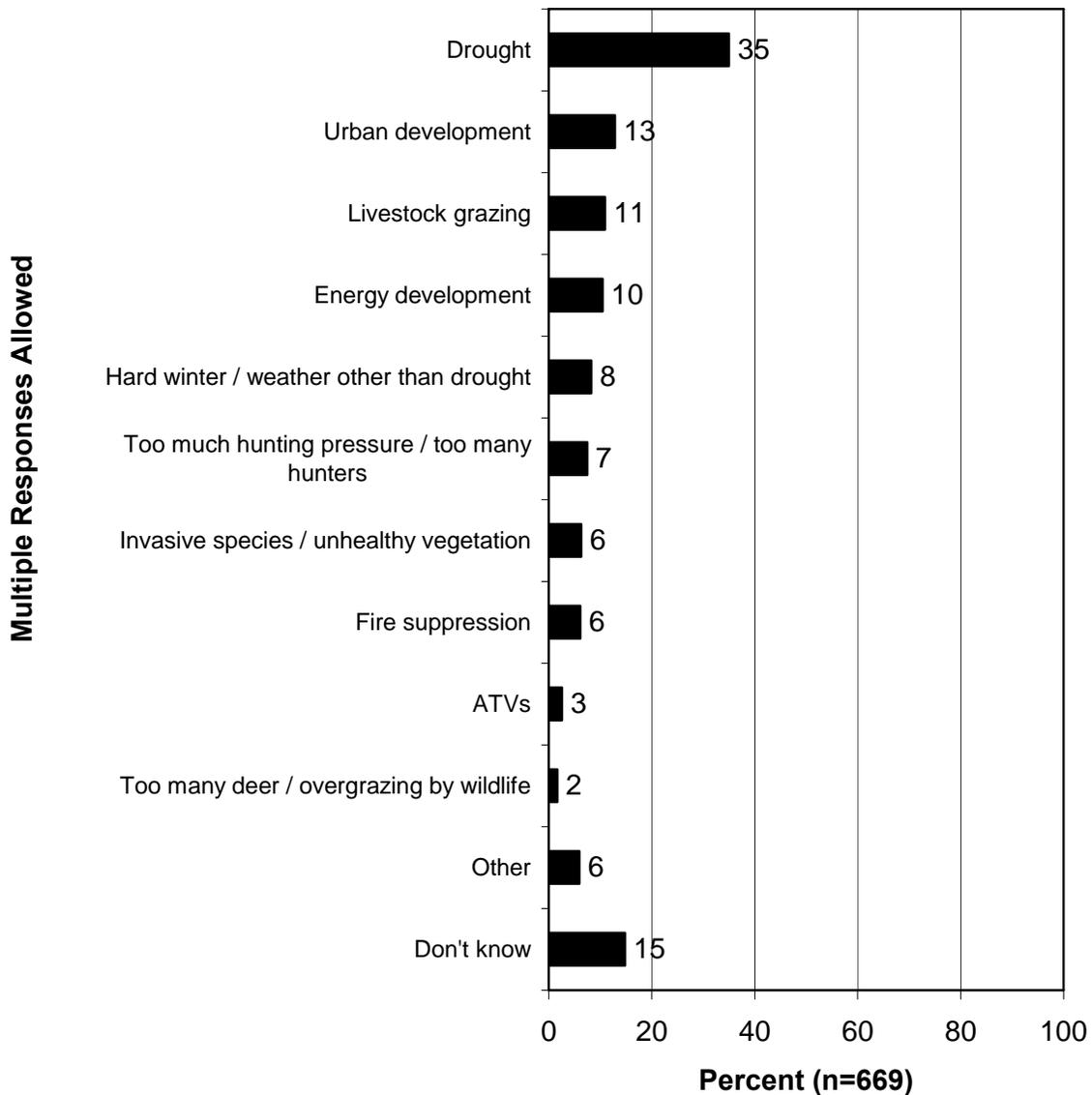
Trend in the quality of mule deer habitat



- More than 30% say quality has gotten worse
- 25% to less than 30% say quality has gotten worse
- Less than 25% say quality has gotten worse

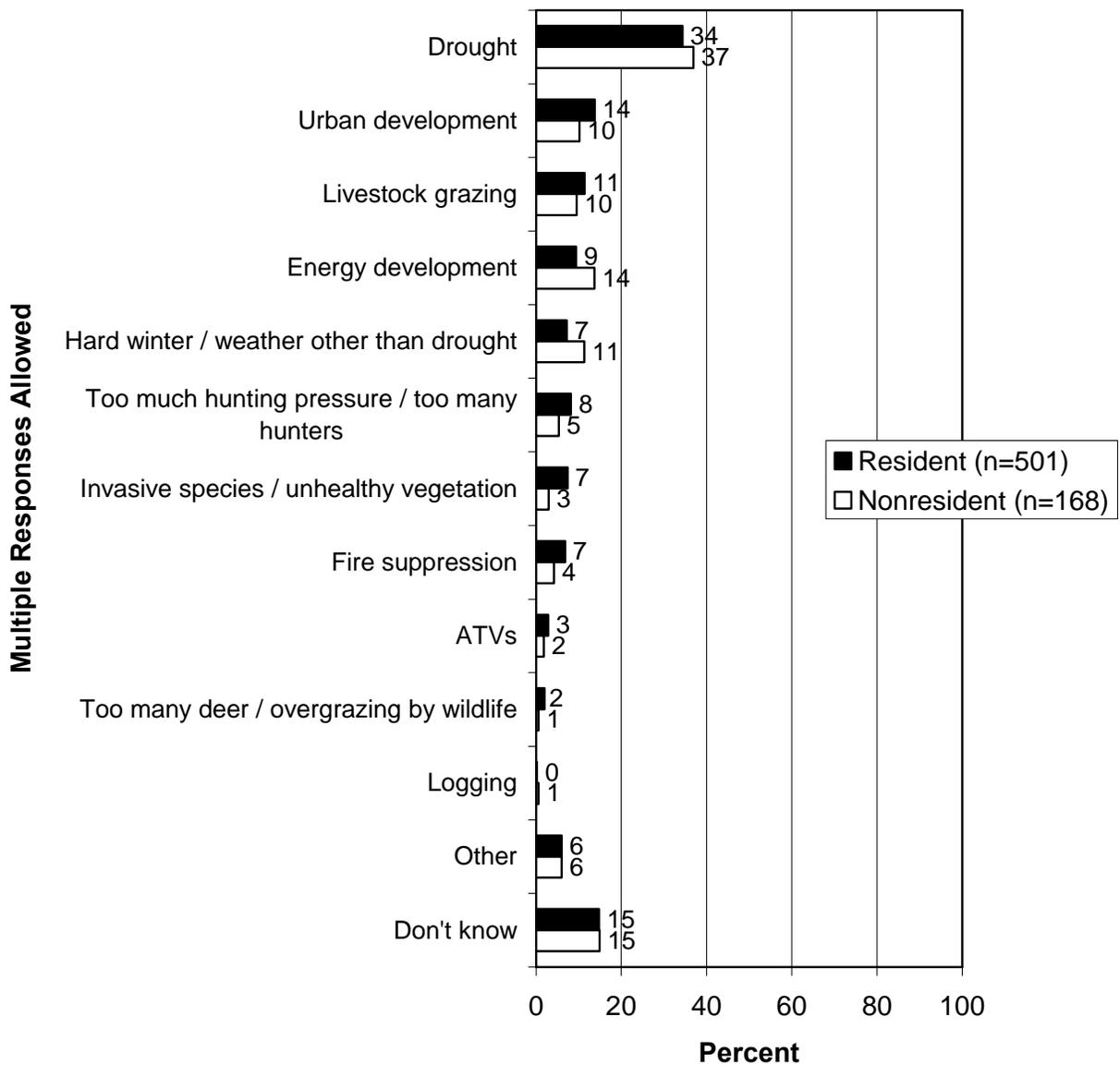
**Q93. What do you think are the main reasons the quality of mule deer habitat has declined in the hunt area in which you hunted most often in the past 5 years? (Asked of those who think the quality of mule deer habitat in the hunt area where they most often hunted mule deer in the past 5 years has gotten worse.)**

**(Statewide: residents and nonresidents.)**



**Q93. What do you think are the main reasons the quality of mule deer habitat has declined in the hunt area in which you hunted most often in the past 5 years? (Asked of those who think the quality of mule deer habitat in the hunt area where they most often hunted mule deer in the past 5 years has gotten worse.)**

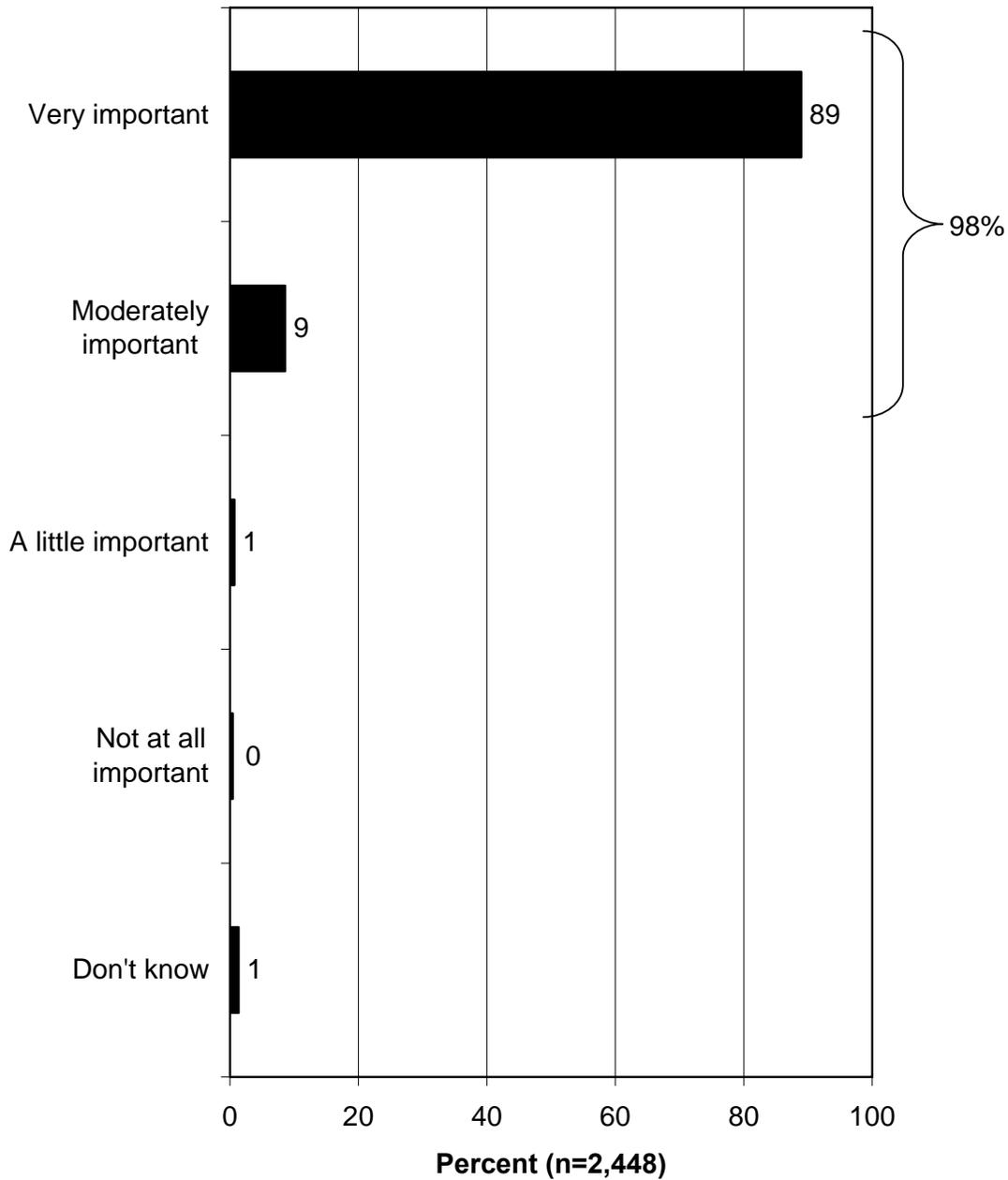
**(Residents versus nonresidents.)**



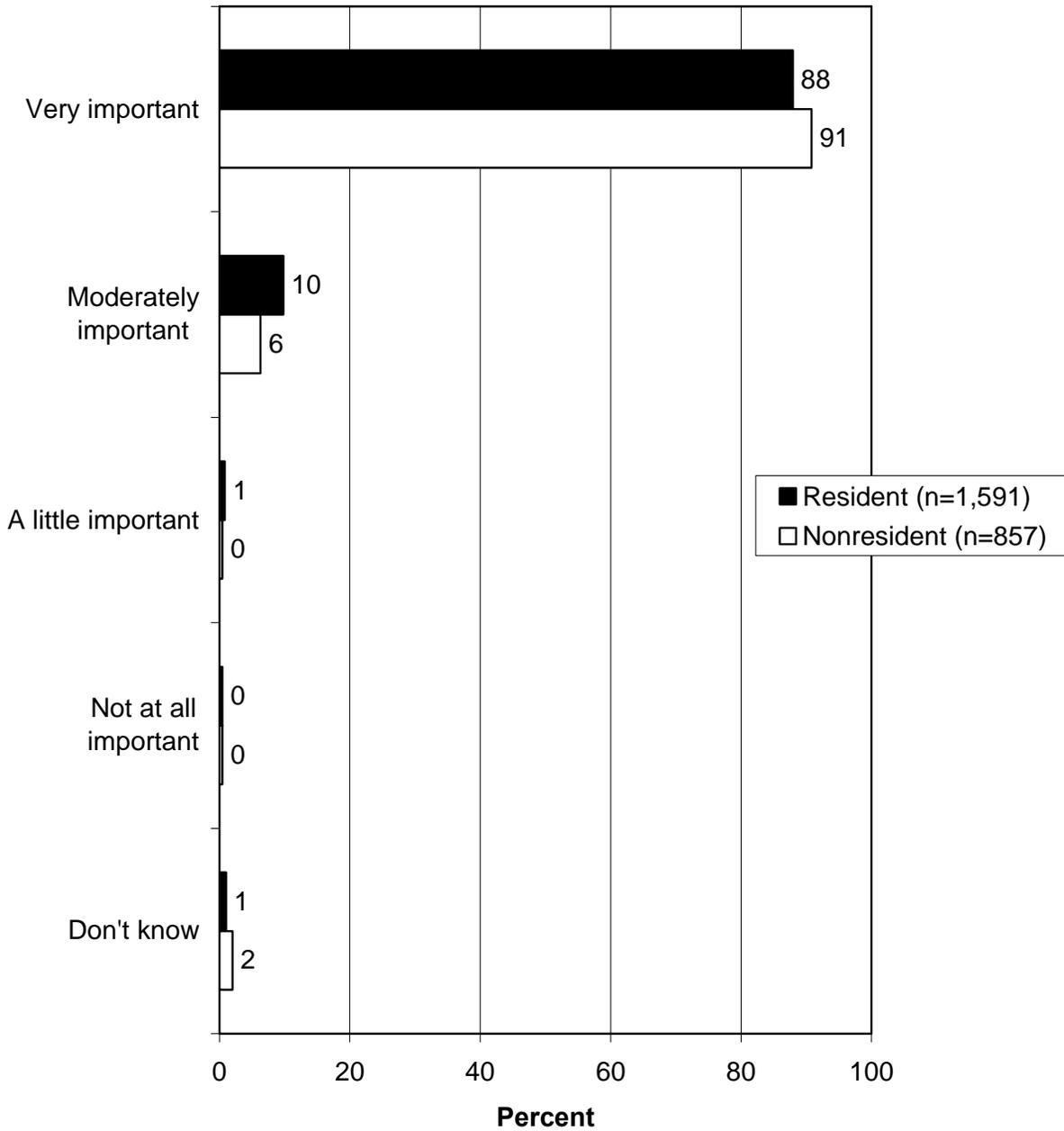
**Q93. What do you think are the main reasons the quality of mule deer habitat has declined in the hunt area in which you hunted most often in the past 5 years? (Asked of those who think the quality of mule deer habitat in the hunt area where they most often hunted mule deer in the past 5 years has gotten worse.)**

	Casper (n=81)	Cody (n=93)	Green River (n=102)	Jackson (n=41)	Lander (n=63)	Laramie (n=117)	Pinedale (n=38)	Sheridan (n=105)	Don't know (n=29)	Total
Drought	52	31	30	27	38	33	32	37	24	35
Urban development	5	24	13	17	6	12	8	16	7	13
Livestock grazing	7	11	12	12	13	7	13	10	28	11
Energy development	7	5	18	10	8	3	24	16	7	10
Hard winter / weather other than drought	11	8	15	10	2	3	18	6	7	8
Too much hunting pressure / too many hunters	7	8	7	5	10	10	3	6	10	7
Invasive species / unhealthy vegetation	1	3	4	10	8	16	8	1	7	6
Fire suppression	7	1	10	5	6	12	8	1	0	6
ATVs	2	2	3	5	0	2	3	3	7	3
Too many deer / overgrazing by wildlife	1	4	0	0	3	2	0	2	0	2
Logging	0	0	1	0	2	0	0	0	0	0
Other	6	5	6	5	6	6	5	7	7	6
Don't know	14	17	13	12	14	14	8	18	24	15

**Q87. In your opinion, how important is the quality of habitat on mule deer ranges in determining the survival of mule deer in Wyoming?  
(Statewide: residents and nonresidents.)**

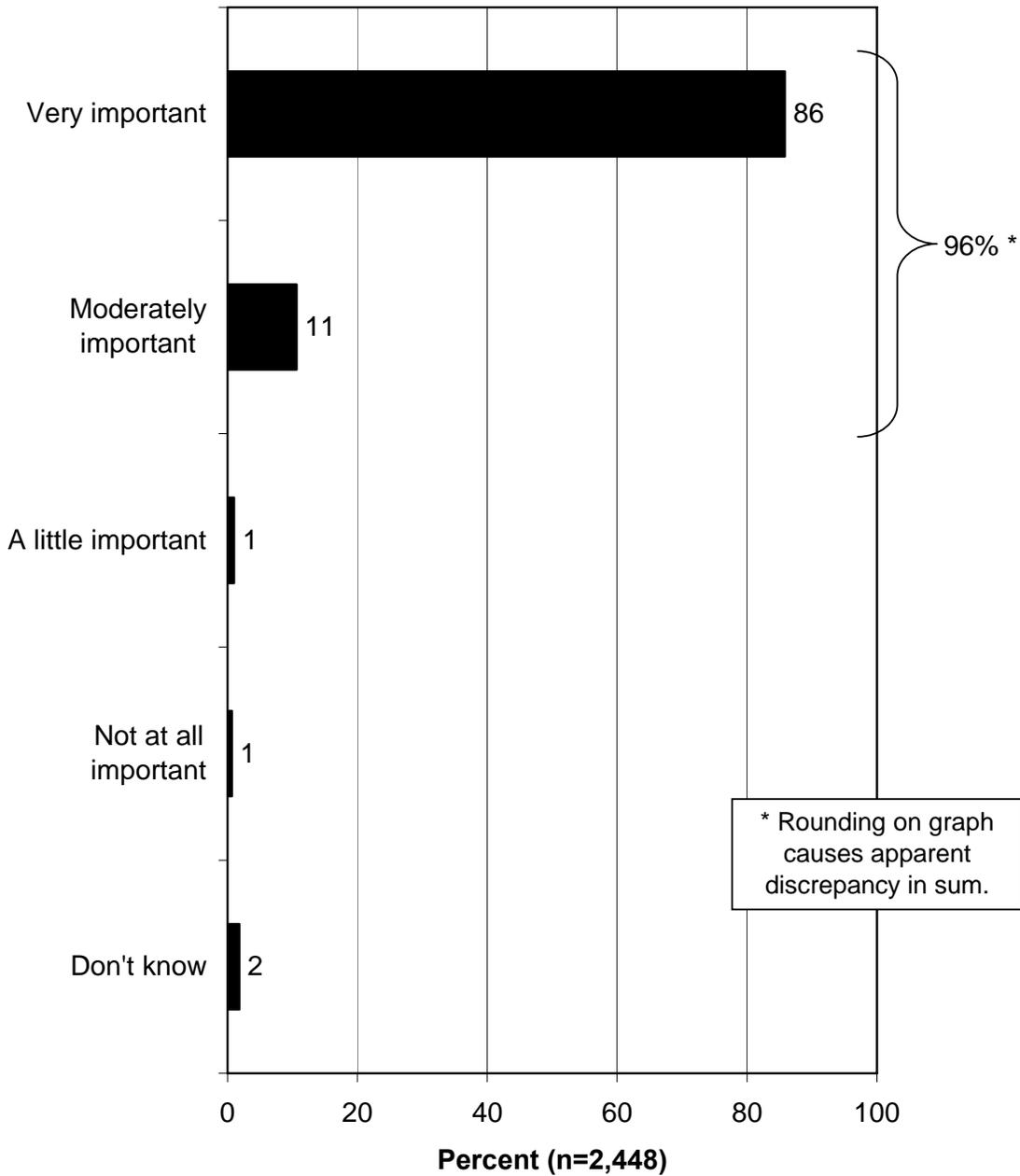


**Q87. In your opinion, how important is the quality of habitat on mule deer ranges in determining the survival of mule deer in Wyoming?  
(Residents versus nonresidents.)**

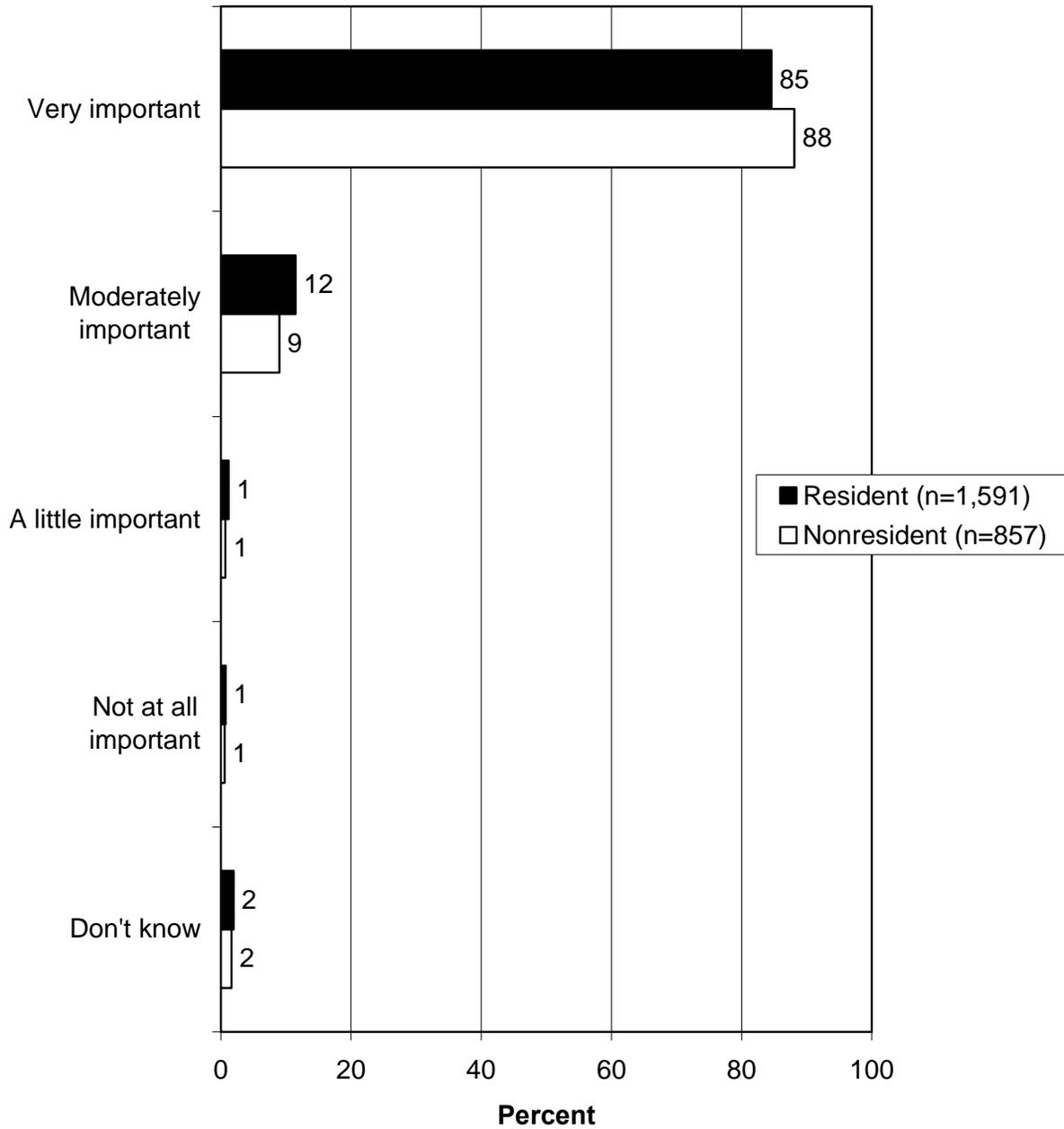


<b>Q87. In your opinion, how important is the quality of habitat on mule deer ranges in determining the survival of mule deer in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very important	90	88	89	93	91	92	92	84	87	89
Moderately important	8	10	8	4	8	7	6	12	7	9
A little important	1	1	1	1	0	0	1	1	0	1
Not at all important	0	0	1	0	0	0	0	1	3	0
Don't know	1	1	2	2	0	0	1	2	3	1

**Q88. In your opinion, how important is the amount of habitat on mule deer ranges in determining the survival of mule deer in Wyoming?  
(Statewide: residents and nonresidents.)**



**Q88. In your opinion, how important is the amount of habitat on mule deer ranges in determining the survival of mule deer in Wyoming?  
(Residents versus nonresidents.)**

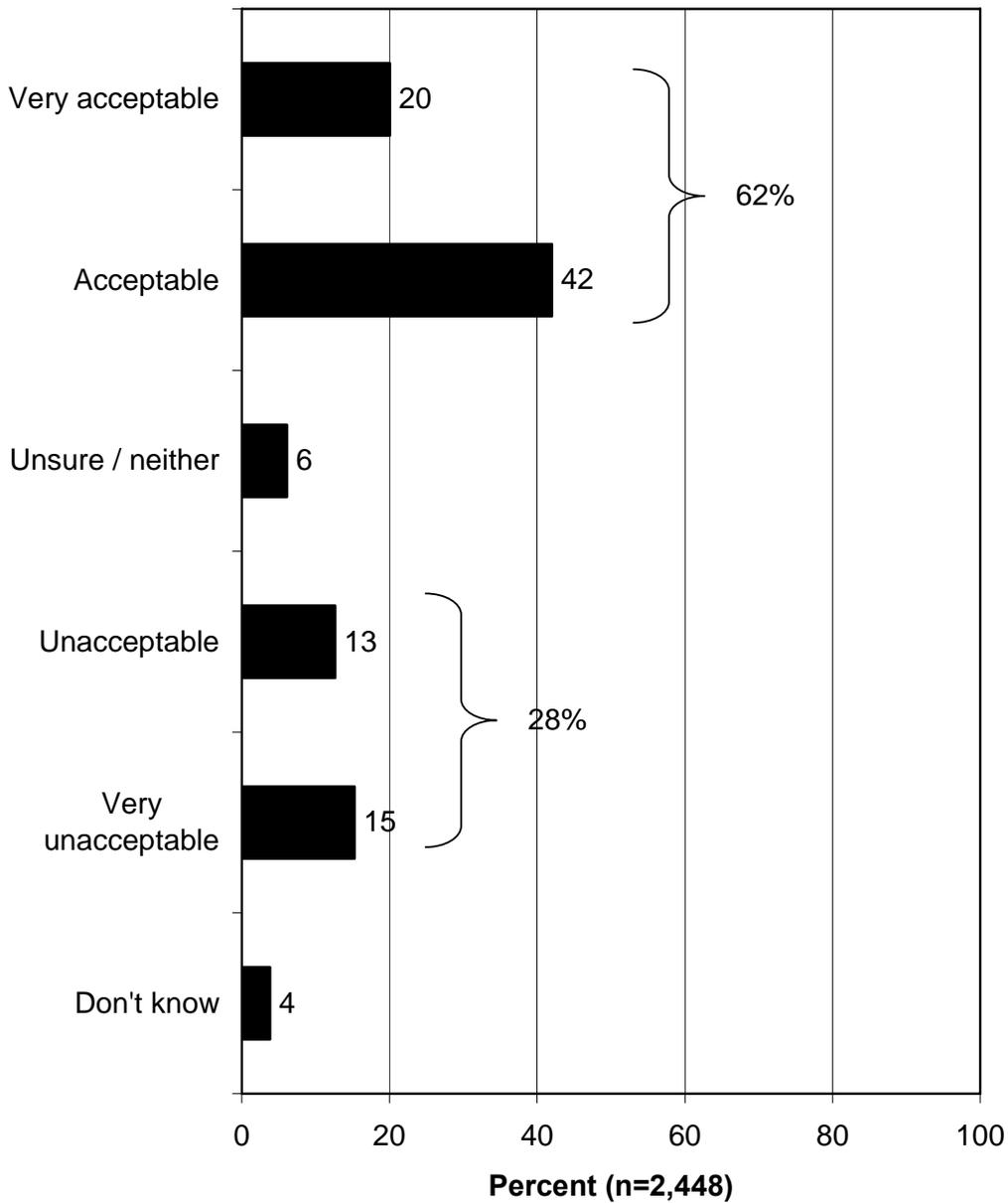


<b>Q88. In your opinion, how important is the amount of habitat on mule deer ranges in determining the survival of mule deer in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very important	84	84	86	91	88	90	86	84	84	86
Moderately important	14	11	11	5	10	7	11	12	11	11
A little important	1	1	1	1	1	2	2	1	1	1
Not at all important	0	1	0	1	0	1	0	1	2	1
Don't know	1	3	2	1	2	1	2	2	3	2

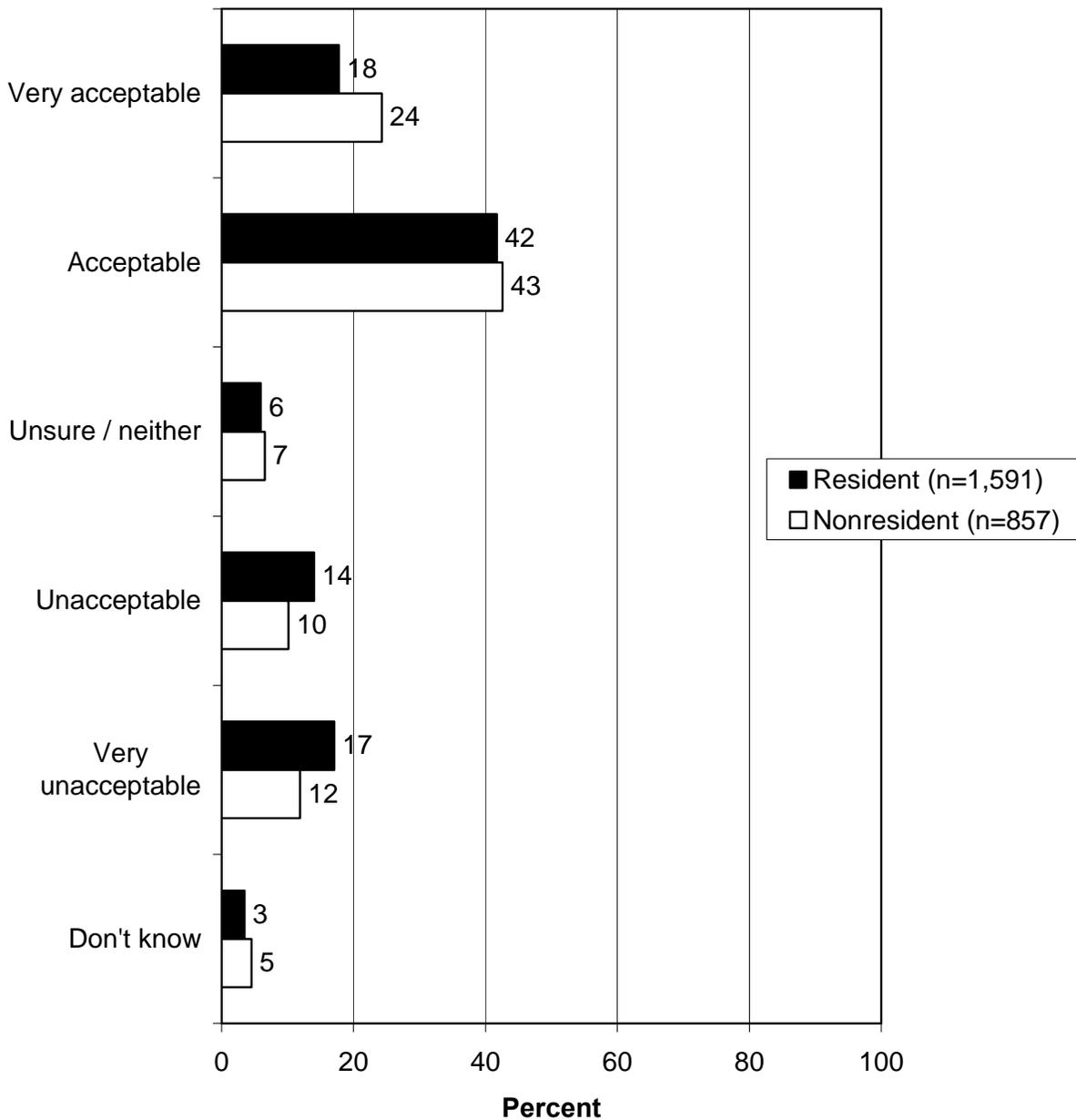
## ORV USE AND MULE DEER HUNTING

- The current amount of off-road vehicle (ORV) use in the area in which the respondent most often hunted mule deer is found to be acceptable by a majority (62%), compared to 28% who find it unacceptable (the remainder—10%—give a neutral response). However, opinion about the acceptability of ORV use on the *winter ranges* is more split: 36% find the amount acceptable, while 39% find it unacceptable (on this latter question, 26% give a neutral answer).
  - On both of these questions, residents are more likely than nonresidents to find the amount of ORV use unacceptable ( $p \leq 0.001$ ).
  
- When asked about support or opposition to efforts to regulate the use of ORVs during hunting seasons in Wyoming, a large majority of mule deer hunters support (61%) doing so, about double the percentage who oppose (31%).
  - The crosstabulation by resident/nonresident did not find marked differences between the groups.

**Q95. How acceptable or unacceptable is the amount of ORV use in the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?  
(Statewide: residents and nonresidents.)**



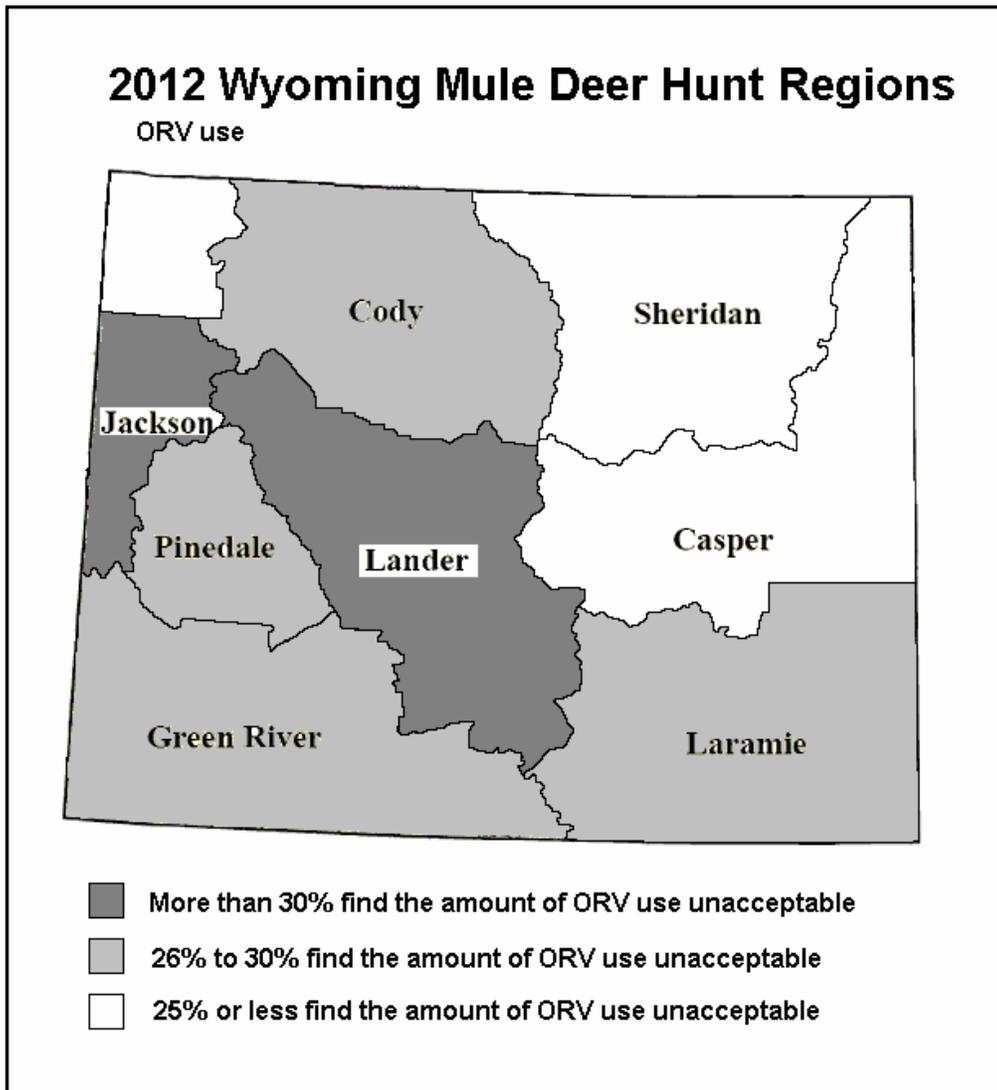
**Q95. How acceptable or unacceptable is the amount of ORV use in the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?  
(Residents versus nonresidents.)**



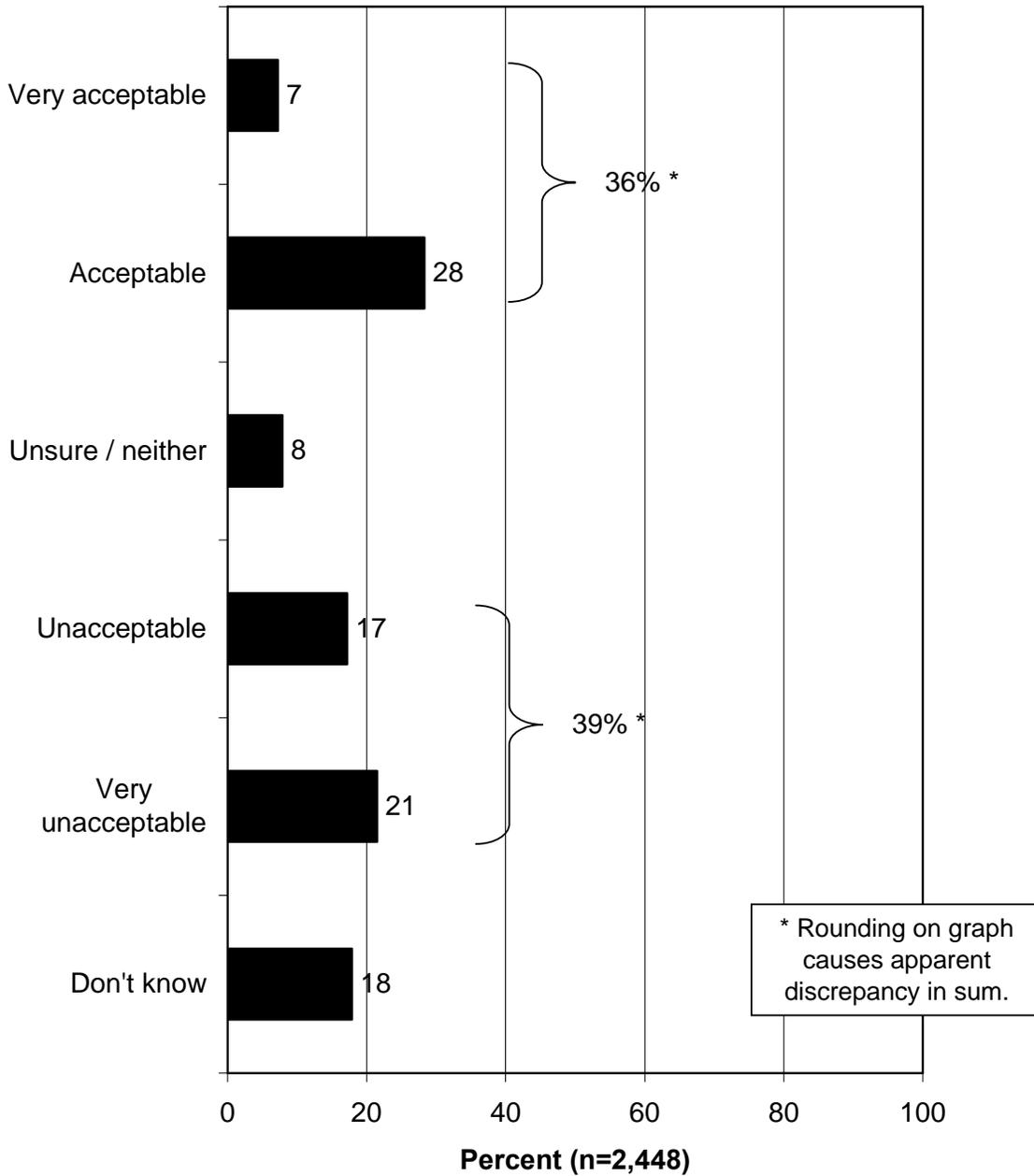
**Q95. How acceptable or unacceptable is the amount of ORV use in the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?**

	Casper (n=296)	Cody (n=453)	Green River (n=320)	Jackson (n=167)	Lander (n=216)	Laramie (n=323)	Pinedale (n=113)	Sheridan (n=441)	Don't know (n=119)	Total
Very acceptable	24	17	22	13	26	18	21	20	19	20
Acceptable	43	47	43	32	36	43	44	43	36	42
Unsure / neither	6	5	7	7	5	6	4	8	8	6
Unacceptable	9	12	13	16	13	13	12	13	16	13
Very unacceptable	12	14	15	30	17	16	15	12	14	15
Don't know	6	5	2	2	2	4	4	4	7	4

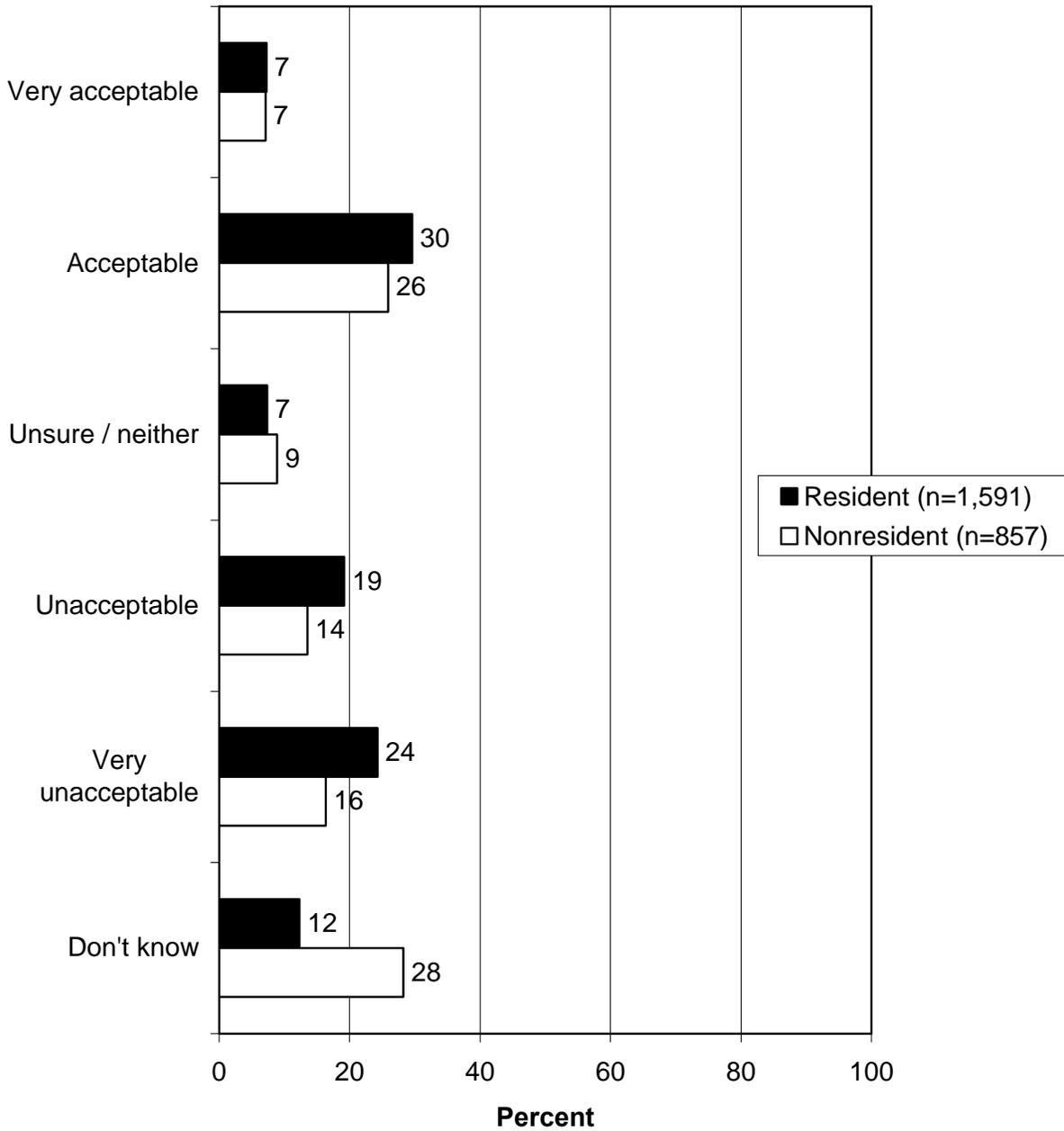
Note that Yellowstone National Park in the northwest corner of the state is not part of any hunt region.



**Q96. How acceptable or unacceptable is the amount of ORV use on mule deer winter ranges in Wyoming?  
(Statewide: residents and nonresidents.)**

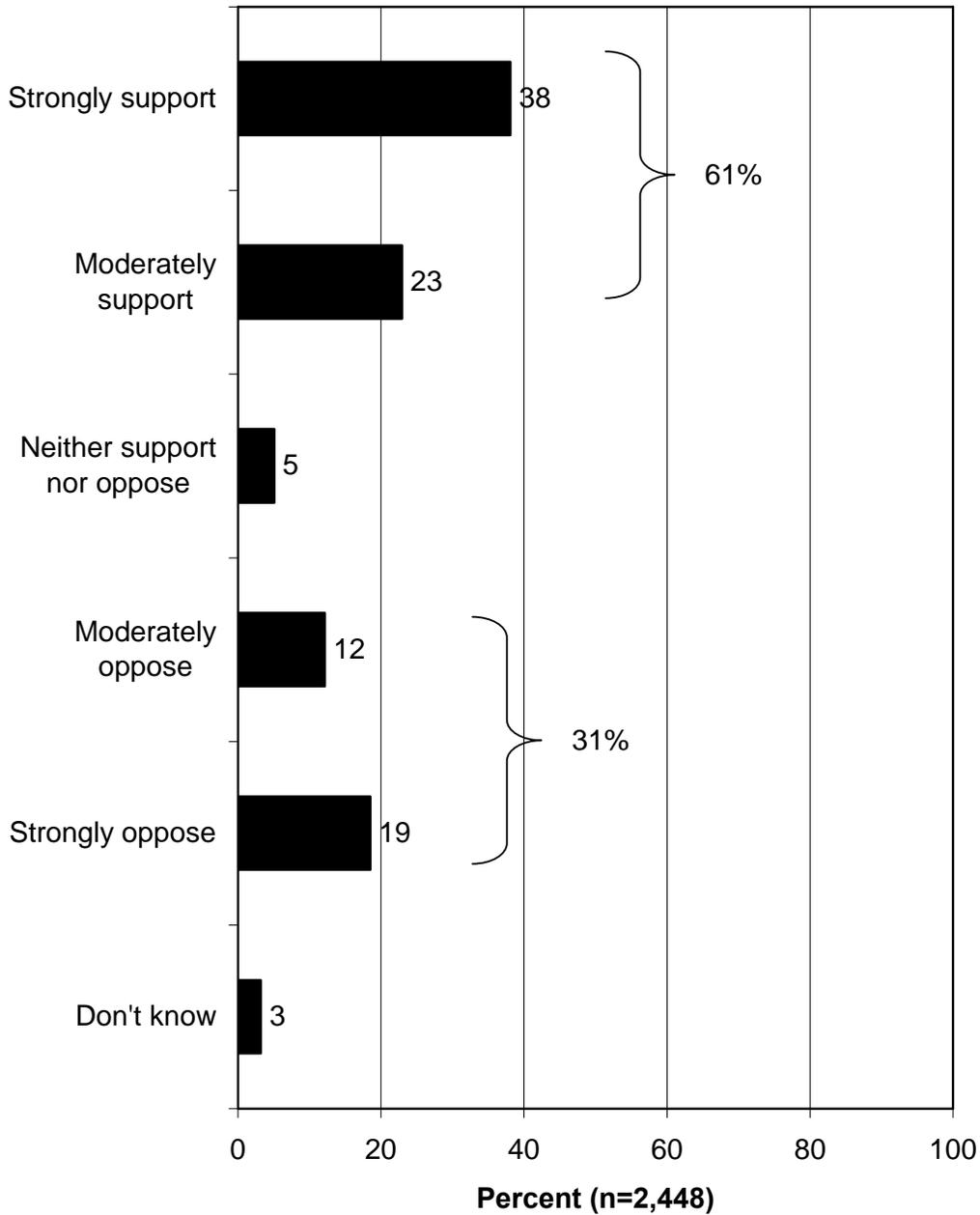


**Q96. How acceptable or unacceptable is the amount of ORV use on mule deer winter ranges in Wyoming?  
(Residents versus nonresidents.)**

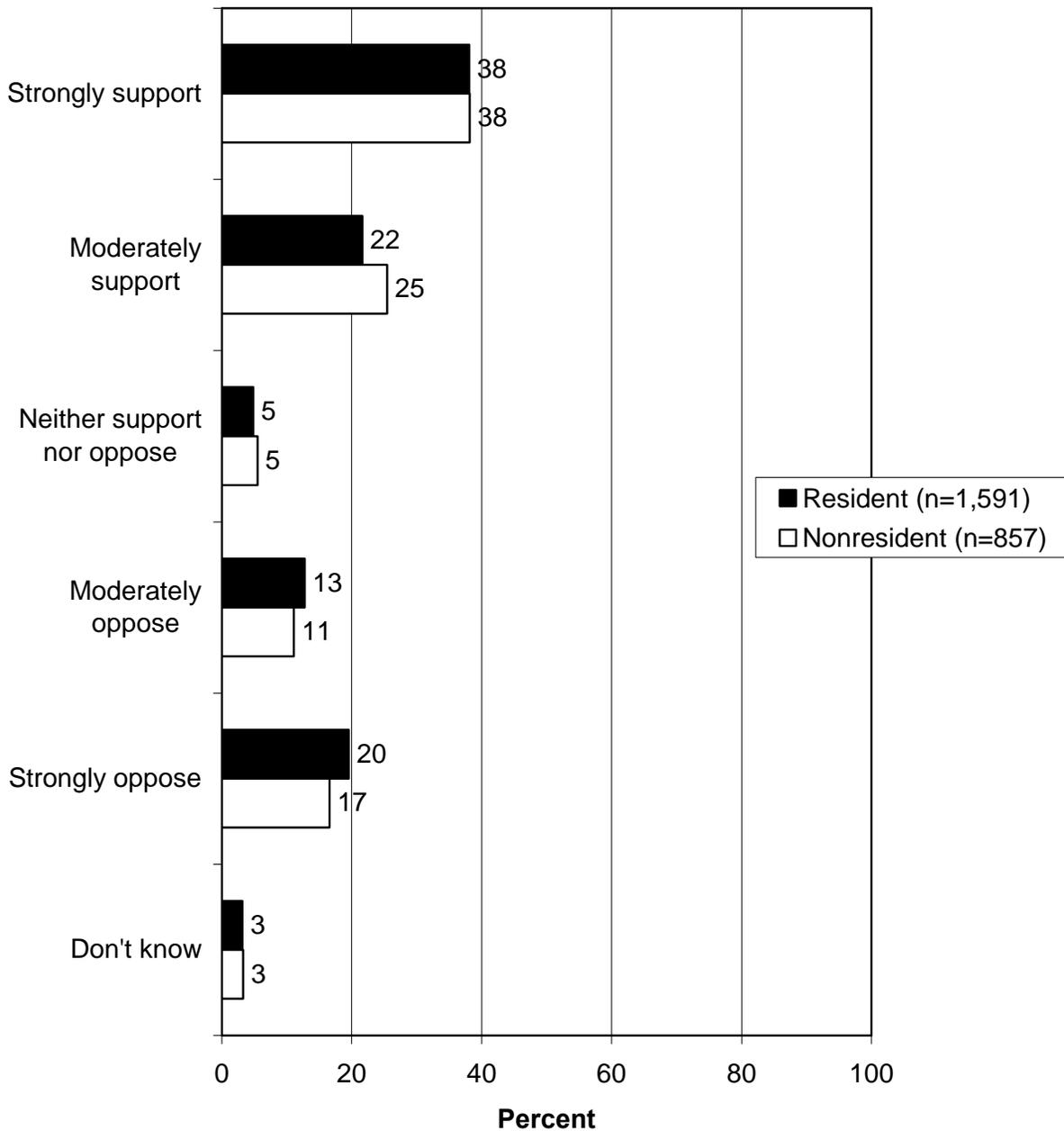


<b>Q96. How acceptable or unacceptable is the amount of ORV use on mule deer winter ranges in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Very acceptable	10	5	6	3	10	7	7	8	9	7
Acceptable	24	34	30	20	25	27	27	31	24	28
Unsure / neither	8	8	8	6	7	8	6	8	11	8
Unacceptable	16	17	14	21	18	20	18	19	12	17
Very unacceptable	17	18	28	38	25	21	25	14	23	21
Don't know	24	18	13	12	14	19	17	20	22	18

**Q97. Would you support or oppose efforts to regulate the use of ORVs during hunting season in Wyoming?  
(Statewide: residents and nonresidents.)**



**Q97. Would you support or oppose efforts to regulate the use of ORVs during hunting season in Wyoming?  
(Residents versus nonresidents.)**

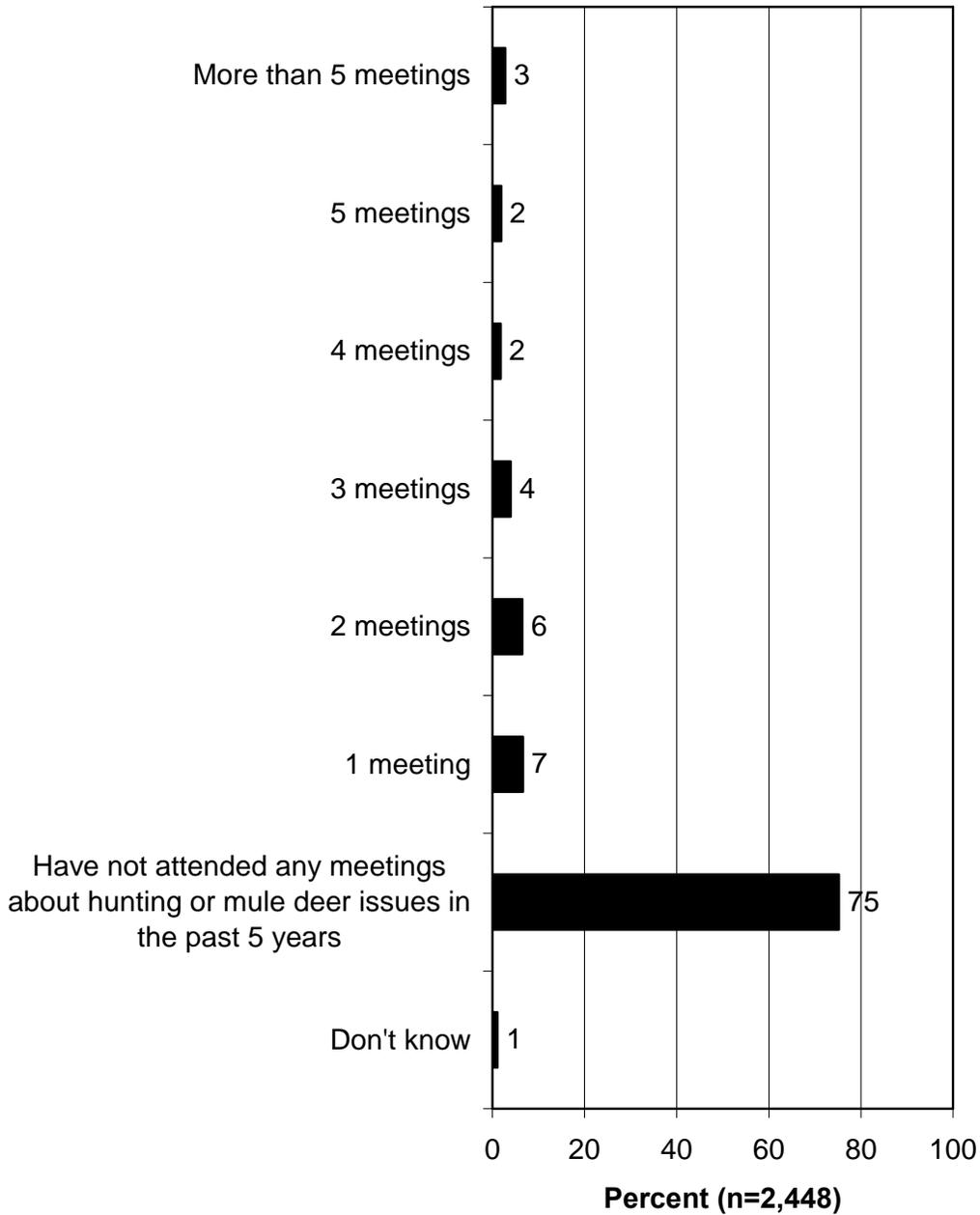


<b>Q97. Would you support or oppose efforts to regulate the use of ORVs during hunting season in Wyoming?</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Strongly support	39	38	35	51	35	42	42	33	38	38
Moderately support	19	24	22	23	25	22	19	26	24	23
Neither support nor oppose	7	4	5	3	6	5	4	5	6	5
Moderately oppose	13	14	13	10	10	12	8	12	12	12
Strongly oppose	17	19	22	11	22	15	25	20	17	19
Don't know	5	2	3	2	2	4	2	3	4	3

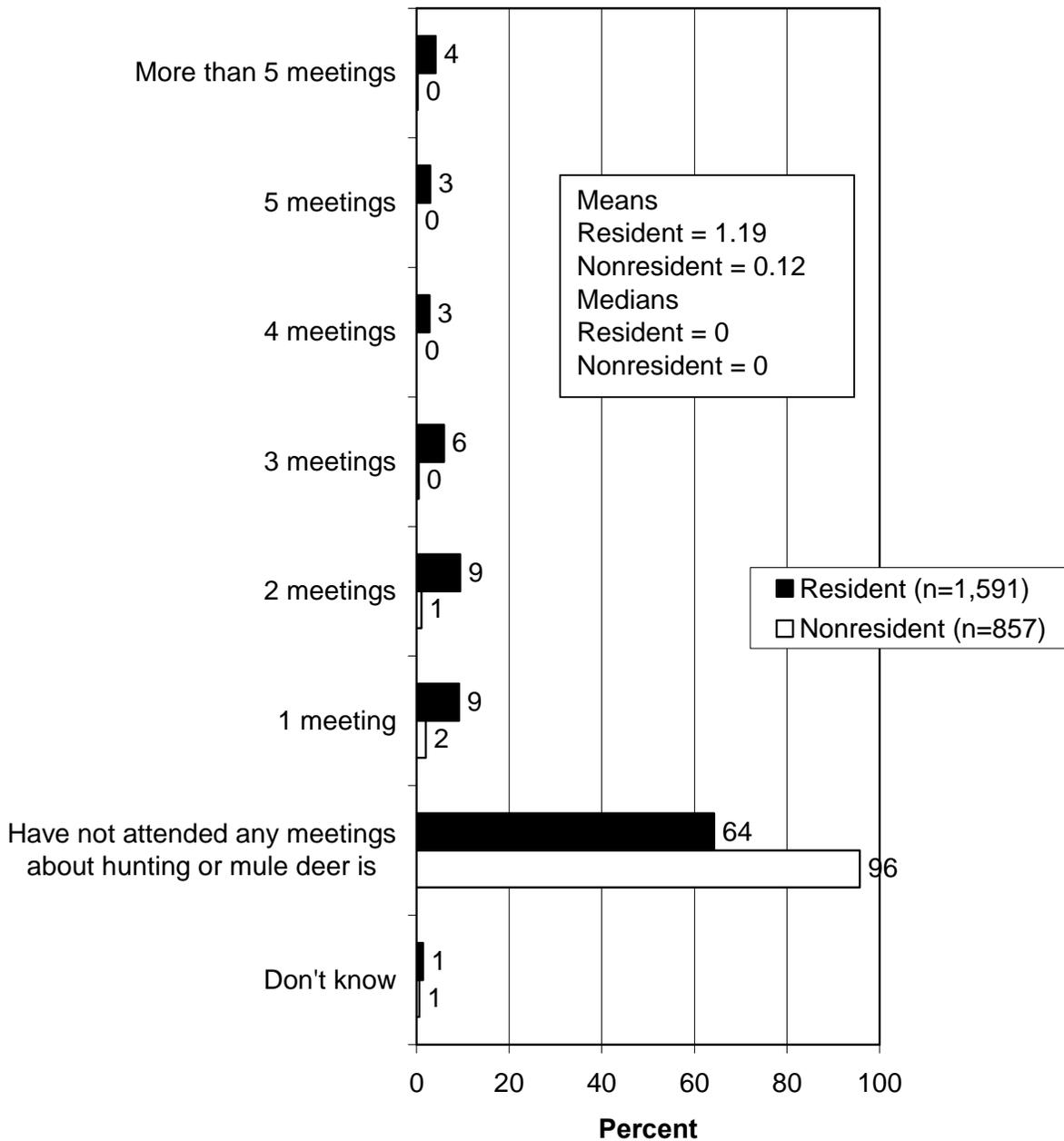
## **PUBLIC INPUT TO DEER MANAGEMENT**

- Just under a quarter of mule deer hunters (24%) have attended a public meeting about hunting or mule deer issues in Wyoming in the past 5 years, while 10% have attended a meeting in the past 12 months.
  - Not surprisingly, nonresidents are less likely to have attended a meeting, compared to residents ( $p \leq 0.001$ ).
  
- Follow-up questions to the one above asked about reasons for *not* attending a meeting and things that would motivate those non-attendees to attend. The biggest constraints to attending are travel distance (42% of those who have not attended a meeting), not being aware of meetings (23%), and lack of time to attend (20%). The biggest encouragements would be more information about when and where the meetings are being held (22%), closer meetings/more convenient locations (18%), more free time (11%), and having an issue in which they are interested (10%).
  - Again not surprisingly, nonresidents are more likely than residents to say that the reason they did not attend a meeting is because of travel distance ( $p \leq 0.001$ ). Regarding motivations that would encourage attendance, nonresidents are more likely than residents to say that nothing would encourage them to attend ( $p \leq 0.001$ ).

**Q98. How many public meetings about hunting or mule deer issues in Wyoming have you attended in the past 5 years?  
(Statewide: residents and nonresidents.)**

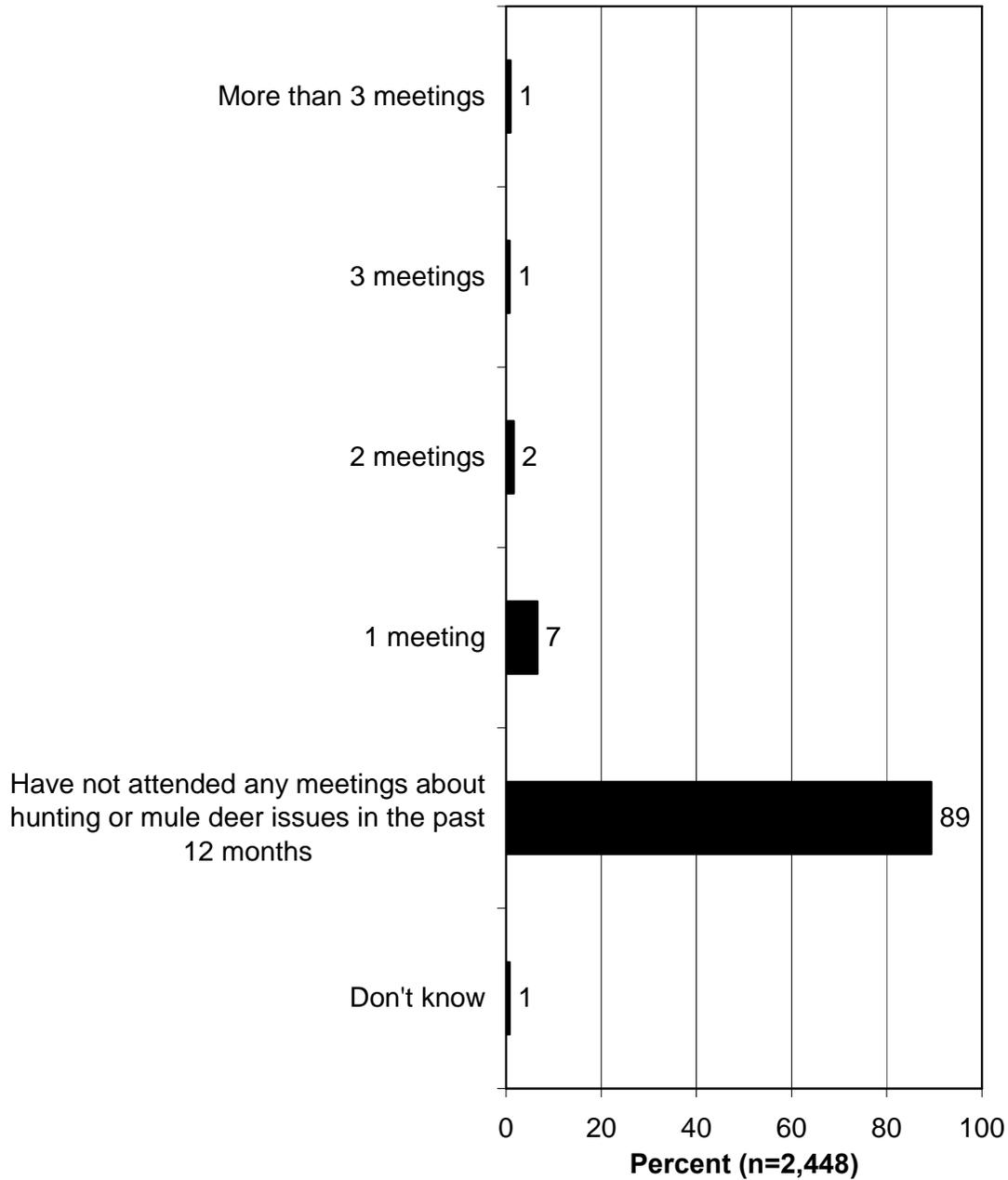


**Q98. How many public meetings about hunting or mule deer issues in Wyoming have you attended in the past 5 years?  
(Residents versus nonresidents.)**

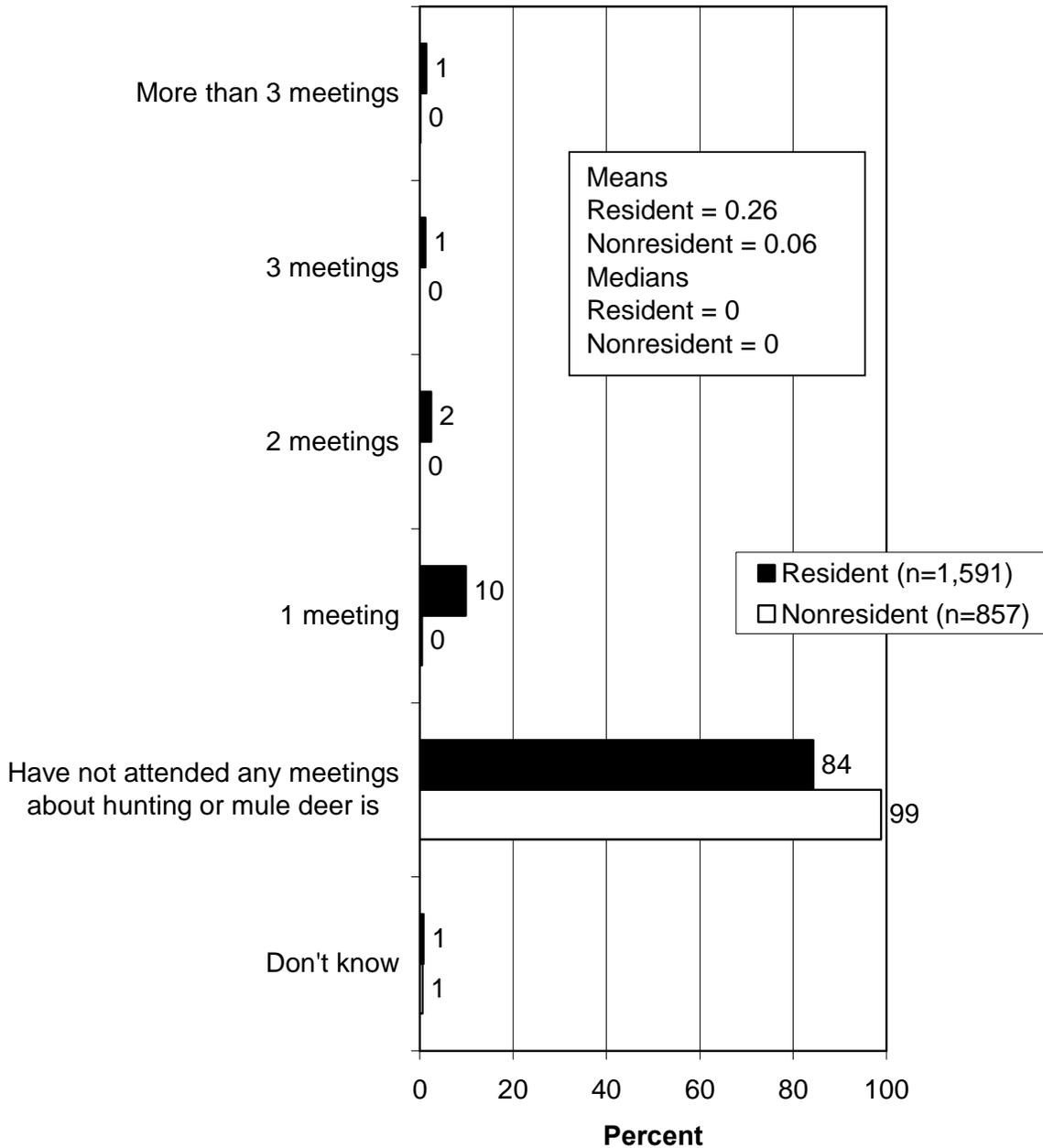




**Q100. How many public meetings about hunting or mule deer issues in Wyoming have you attended in the past 12 months?  
(Statewide: residents and nonresidents.)**

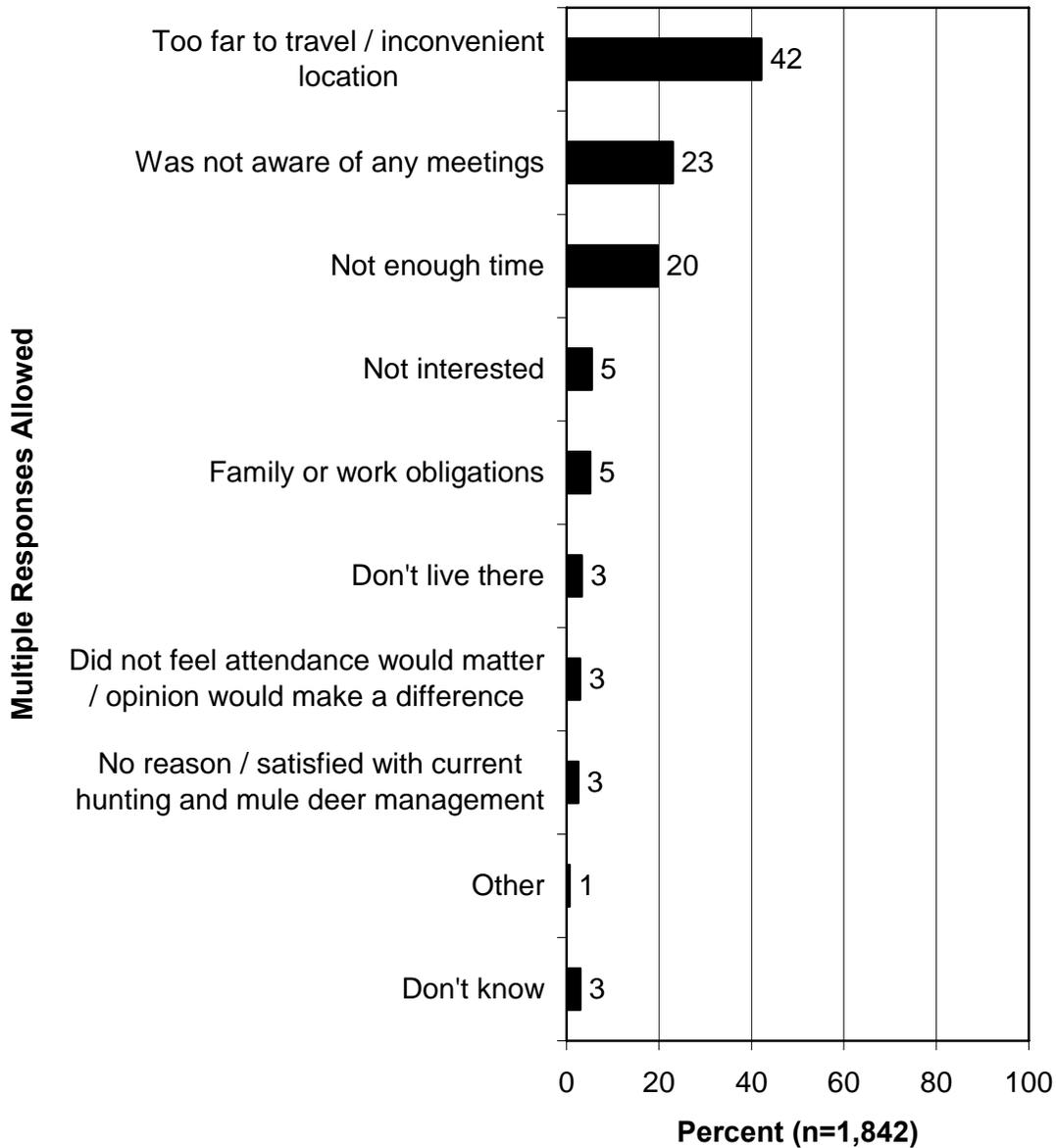


**Q100. How many public meetings about hunting or mule deer issues in Wyoming have you attended in the past 12 months?  
(Residents versus nonresidents.)**

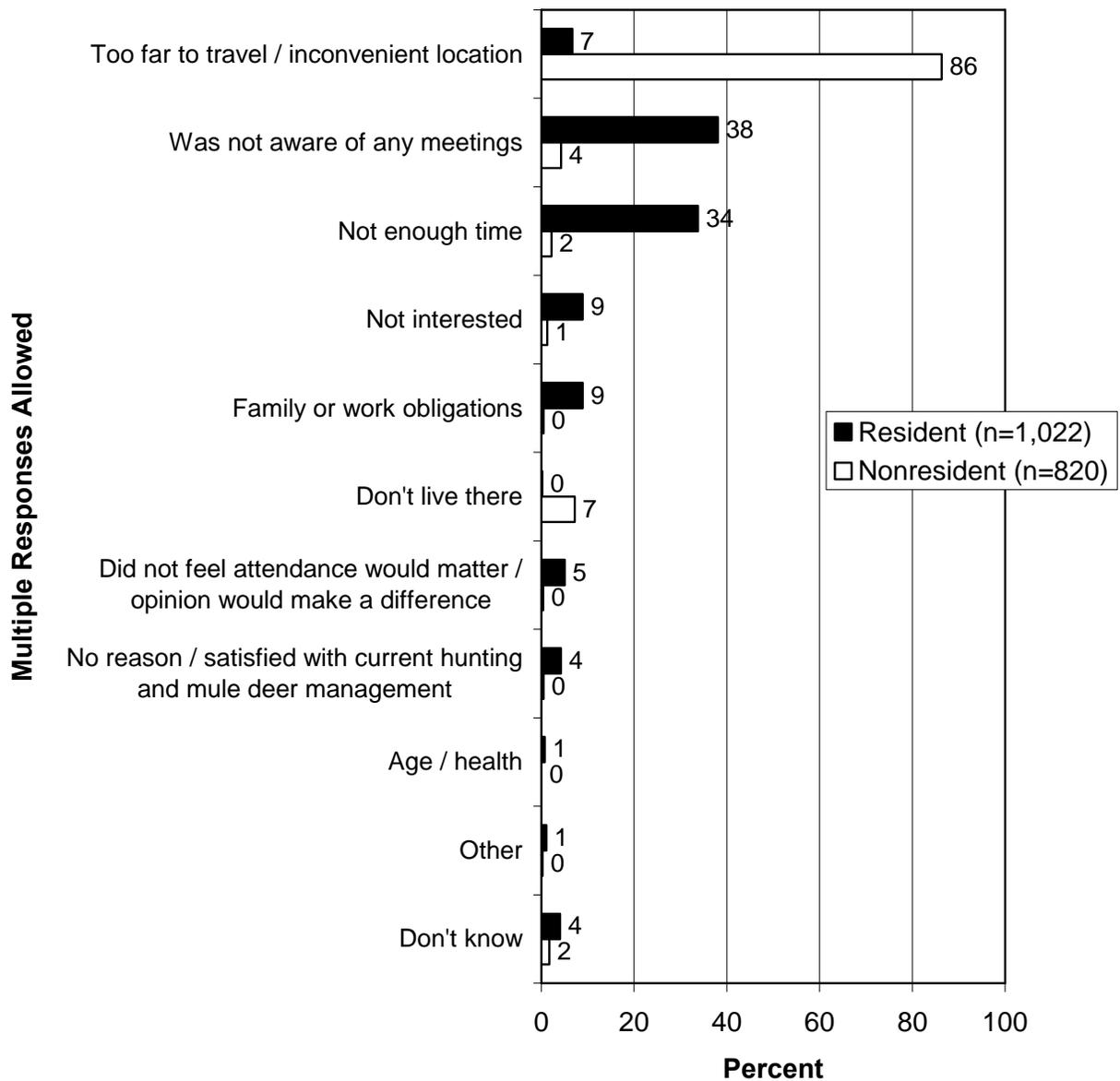




**Q105. What are the main reasons you haven't attended any public meetings about hunting or mule deer issues in Wyoming in the past 5 years? (Asked of those who did not attend any public meetings about hunting or mule deer issues in Wyoming in the past 5 years.) (Statewide: residents and nonresidents.)**



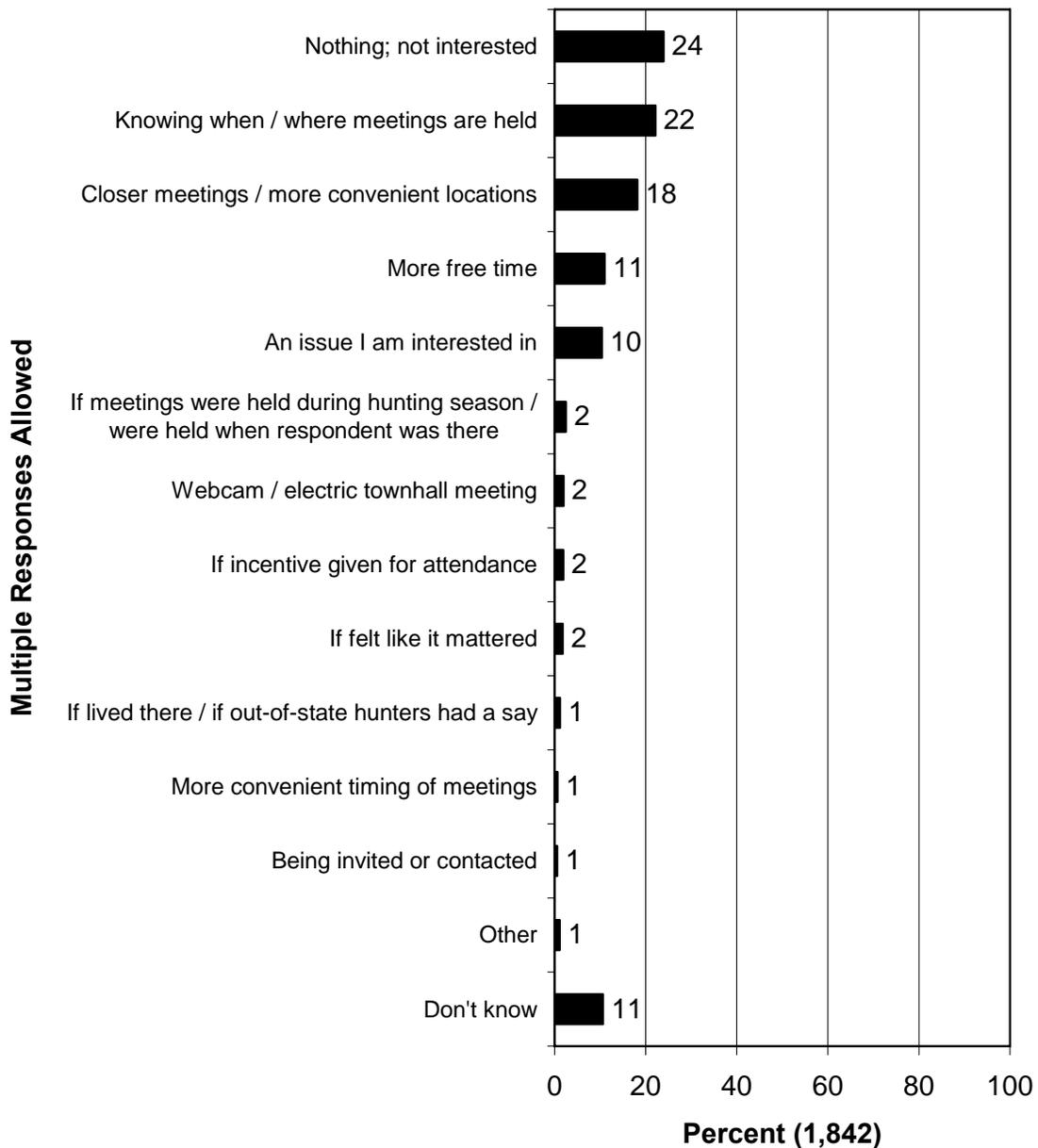
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(Residents versus nonresidents.)**



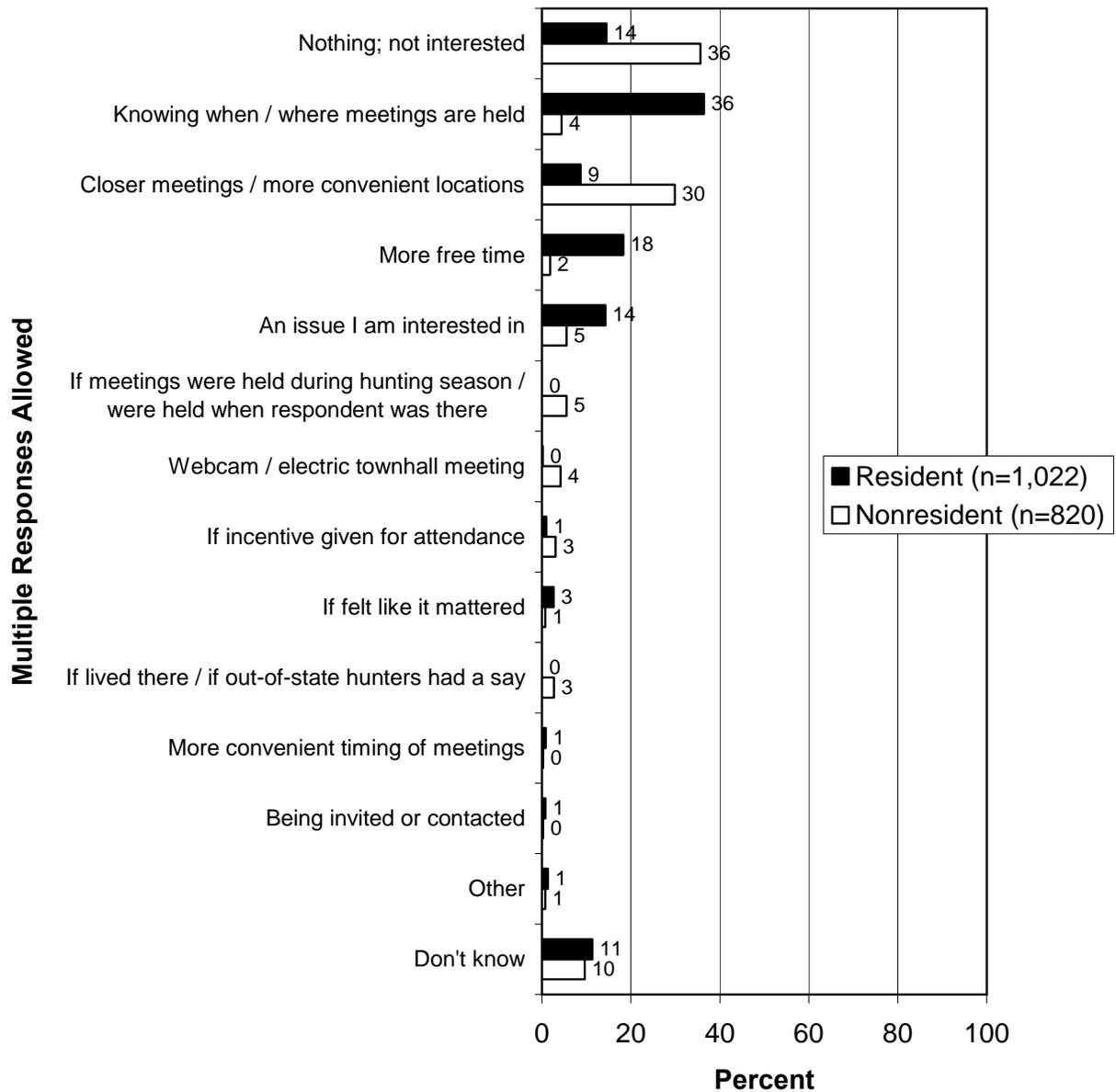
**Q105. What are the main reasons you haven't attended any public meetings about hunting or mule deer issues in Wyoming in the past 5 years? (Asked of those who did not attend any public meetings about hunting or mule deer issues in Wyoming in the past 5 years.)**

	Casper (n=247)	Cody (n=356)	Green River (n=220)	Jackson (n=119)	Lander (n=145)	Laramie (n=240)	Pinedale (n=60)	Sheridan (n=363)	Don't know (n=92)	Total
Too far to travel / inconvenient location	56	38	30	44	23	39	30	53	50	42
Was not aware of any meetings	16	22	27	18	31	32	28	20	12	23
Not enough time	12	19	28	24	26	21	25	17	13	20
Not interested	3	7	4	8	6	5	10	4	8	5
Family or work obligations	5	4	6	7	8	6	7	4	1	5
Don't live there	7	2	1	5	3	2	0	4	4	3
Did not feel attendance would matter / opinion would make a difference	1	4	5	2	4	3	3	2	3	3
No reason / satisfied with current hunting and mule deer management	2	6	2	0	3	1	2	2	3	3
Age / health	0	0	0	0	0	1	2	0	1	0
Makes opinion known in different venue	0	0	0	0	0	0	0	0	0	0
Other	0	1	1	1	3	1	0	0	0	1
Don't know	3	3	5	3	4	2	3	2	5	3

**Q109. What would encourage you to attend a public meeting about hunting or mule deer issues in Wyoming? (Asked of those who did not attend any public meetings about hunting or mule deer issues in Wyoming in the past 5 years.)**  
**(Statewide: residents and nonresidents.)**



**Q109. What would encourage you to attend a public meeting about hunting or mule deer issues in Wyoming?  
(Asked of those who did not attend any public meetings about hunting or mule deer issues in Wyoming in the past 5 years.)  
(Residents versus nonresidents.)**



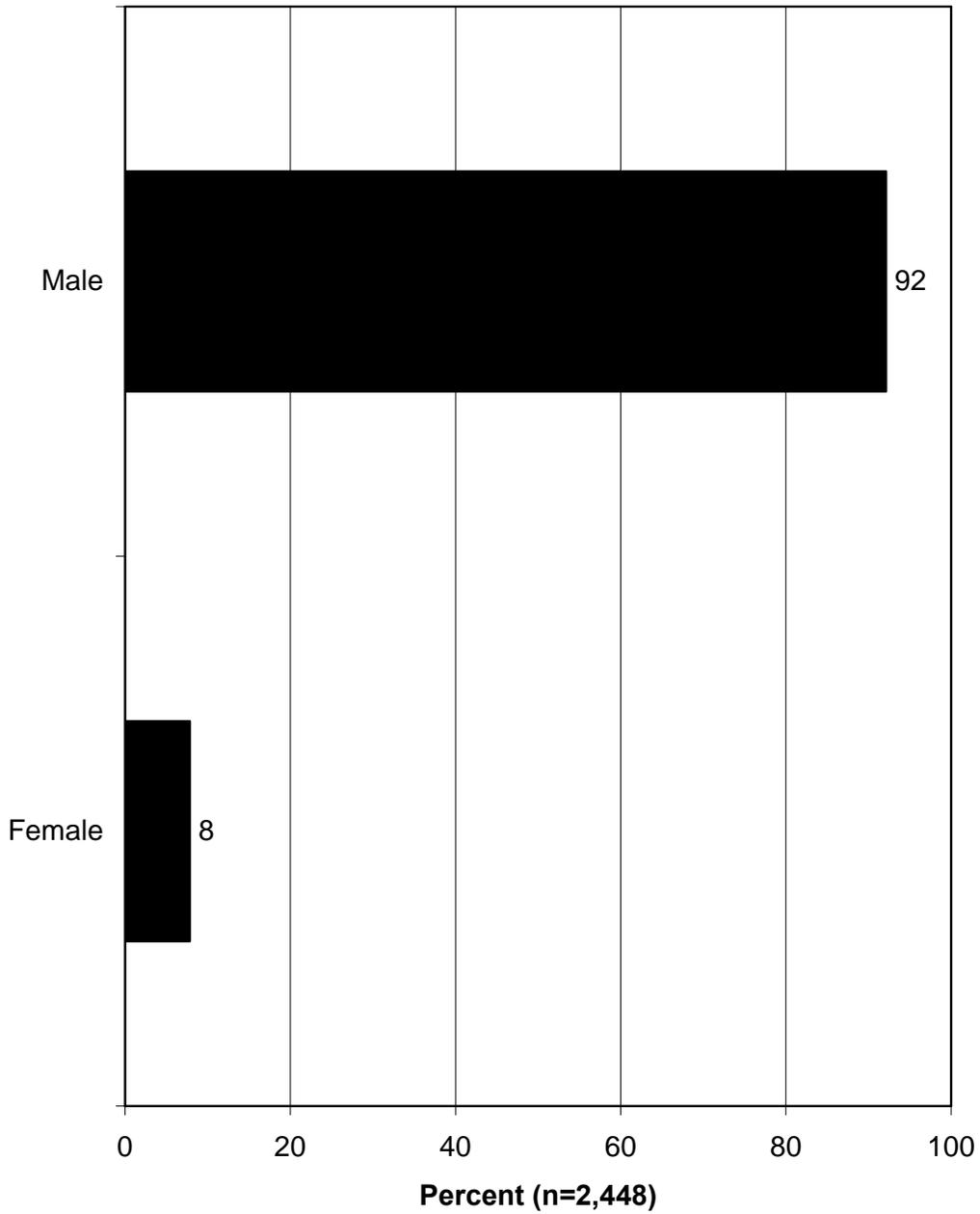
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	Casper (n=247)	Cody (n=356)	Green River (n=220)	Jackson (n=119)	Lander (n=145)	Laramie (n=240)	Pinedale (n=60)	Sheridan (n=363)	Don't know (n=92)	Total
Nothing; not interested	25	24	22	16	23	19	22	30	27	24
Knowing when / where meetings are held	17	22	27	20	31	31	22	17	13	22
Closer meetings / more convenient locations	21	18	15	14	8	21	10	23	23	18
More free time	10	12	12	14	14	10	17	7	12	11
An issue I am interested in	8	15	7	11	15	10	8	7	15	10
If meetings were held during hunting season / were held when respondent was there	5	1	1	2	2	2	0	4	2	2
Webcam / electric townhall meeting	2	1	1	3	2	3	0	3	1	2
If incentive given for attendance	3	3	2	3	1	1	5	1	0	2
If felt like it mattered	2	2	1	6	1	1	3	1	0	2
If lived there / if out-of-state hunters had a say	2	0	0	3	0	1	3	2	0	1
More convenient timing of meetings	1	1	1	1	1	0	0	0	0	1
Being invited or contacted	0	1	1	1	1	0	0	0	1	1
Other	1	1	1	1	1	1	2	1	2	1
Don't know	11	8	16	13	10	9	13	10	9	11

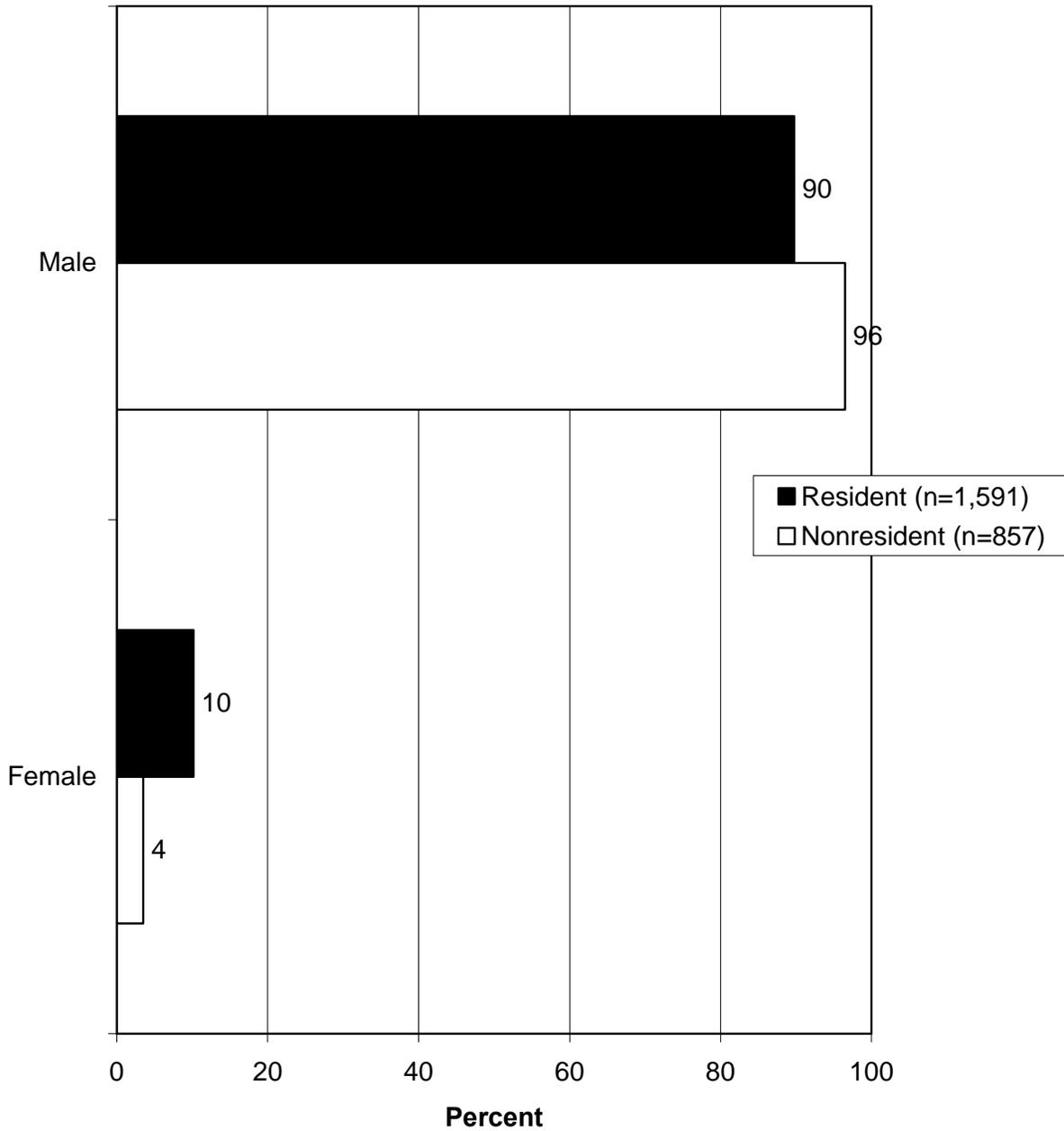
## DEMOGRAPHIC DATA

- The demographic data shown, which were collected primarily for crosstabulations, are gender, age, and county of residence.
  - Mule deer hunters overall are predominantly male (92%), and their median age is 48 years old.
    - Although the percentage of mule deer hunters who are female among residents is greater than among nonresidents (10% compared to 4%, respectively), for both groups the overwhelming majority are male.
    - Regarding age, nonresidents tend to be just slightly older than residents ( $p \leq 0.001$ ). The mean ages are 50.13 years among nonresidents, compared to 46.24 among residents.
  - The leading counties of residence are shown (note that 35% of the sample are from out of state). Counties that contribute relatively large numbers of mule deer hunters to Wyoming's mule deer hunting population are (in order) Fremont, Sweetwater, Park, Campbell, Laramie, Uinta, Lincoln, Sheridan, and Albany—all contributing more than 5.0% of the mule deer hunter population among Wyoming residents.

**Q120. Respondent's gender (observed, not asked,  
by interviewer).  
(Statewide: residents and nonresidents.)**

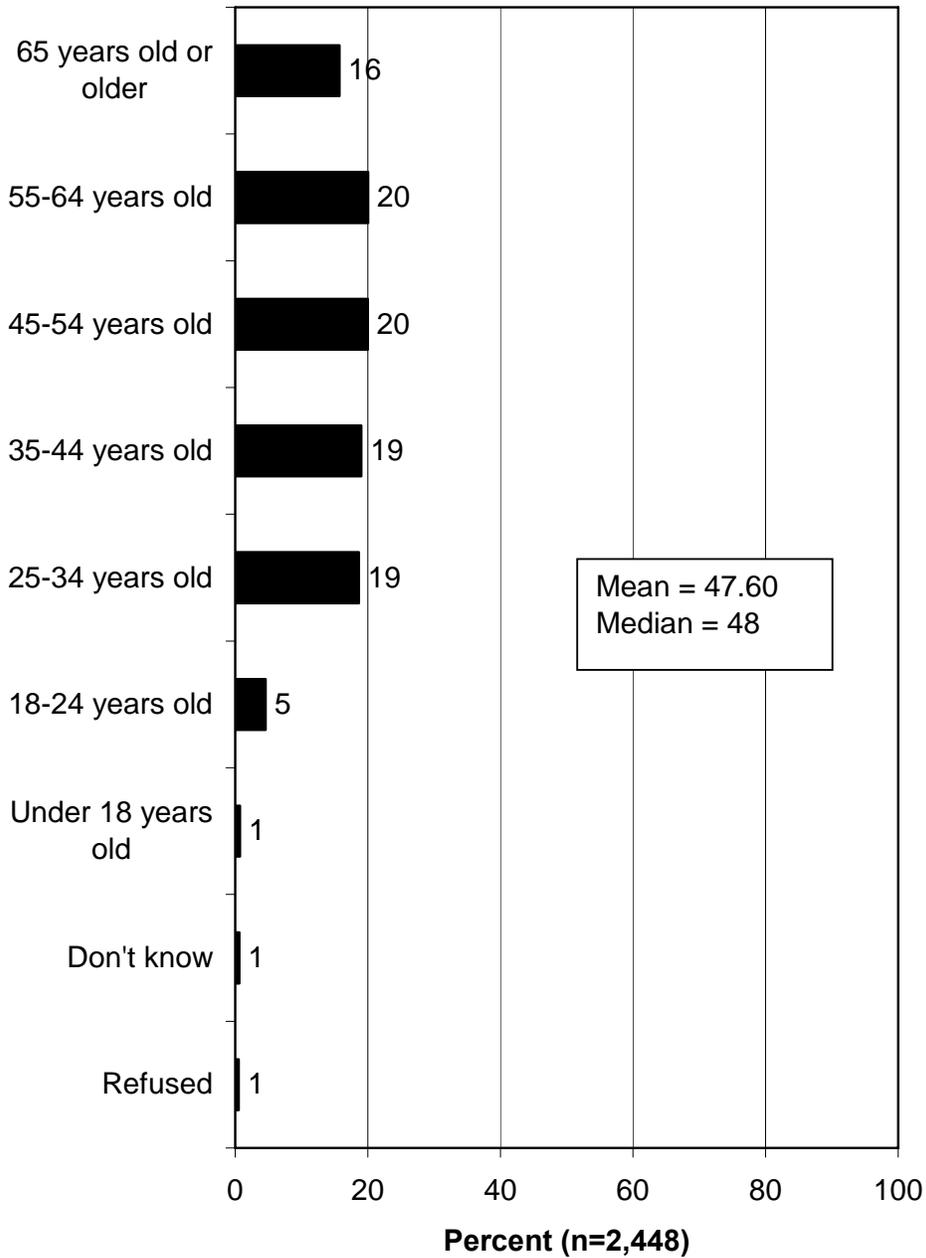


**Q120. Respondent's gender (observed, not asked, by interviewer).  
(Residents versus nonresidents.)**

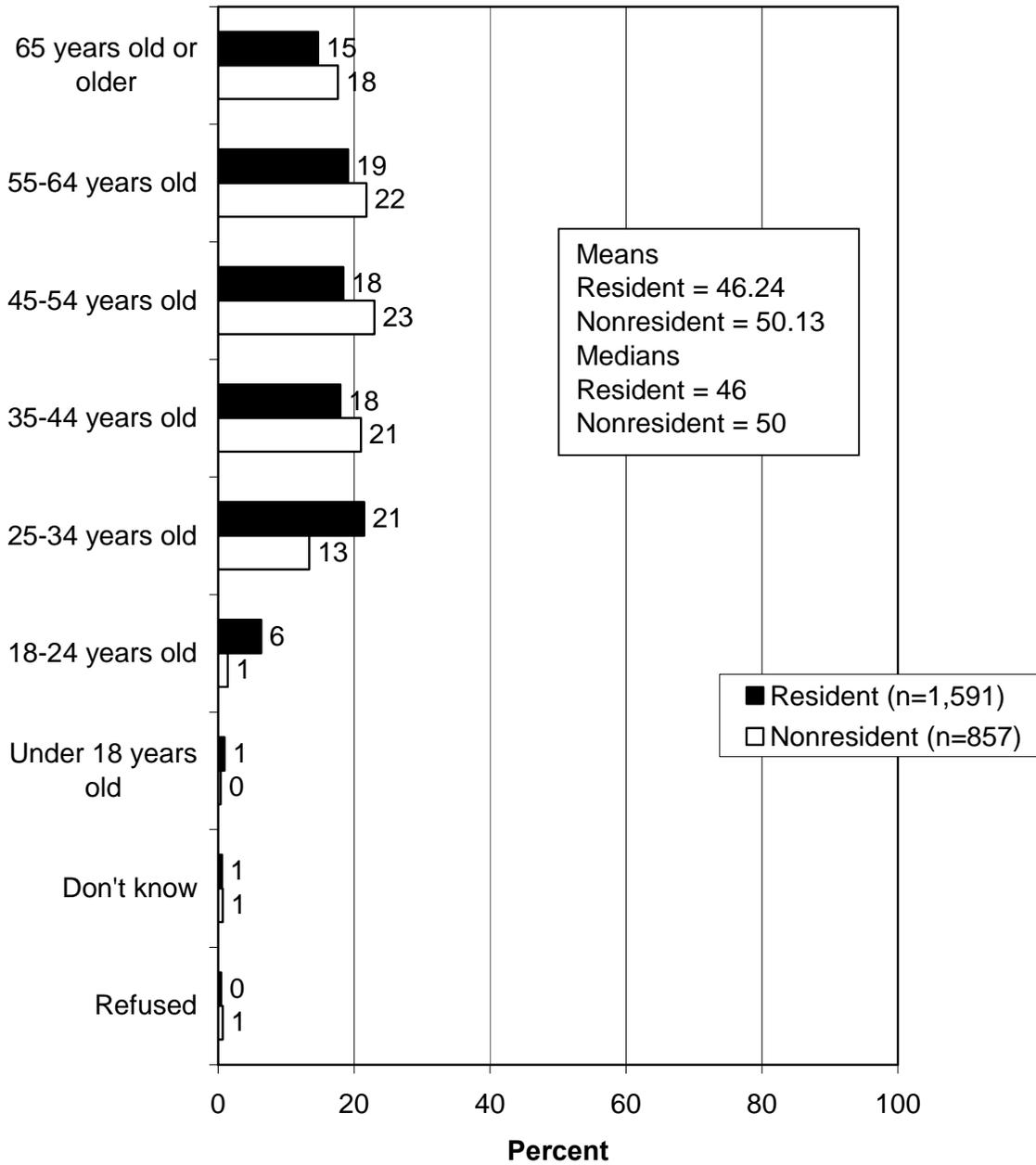




**Q114. Respondent's age.  
(Statewide: residents and nonresidents.)**

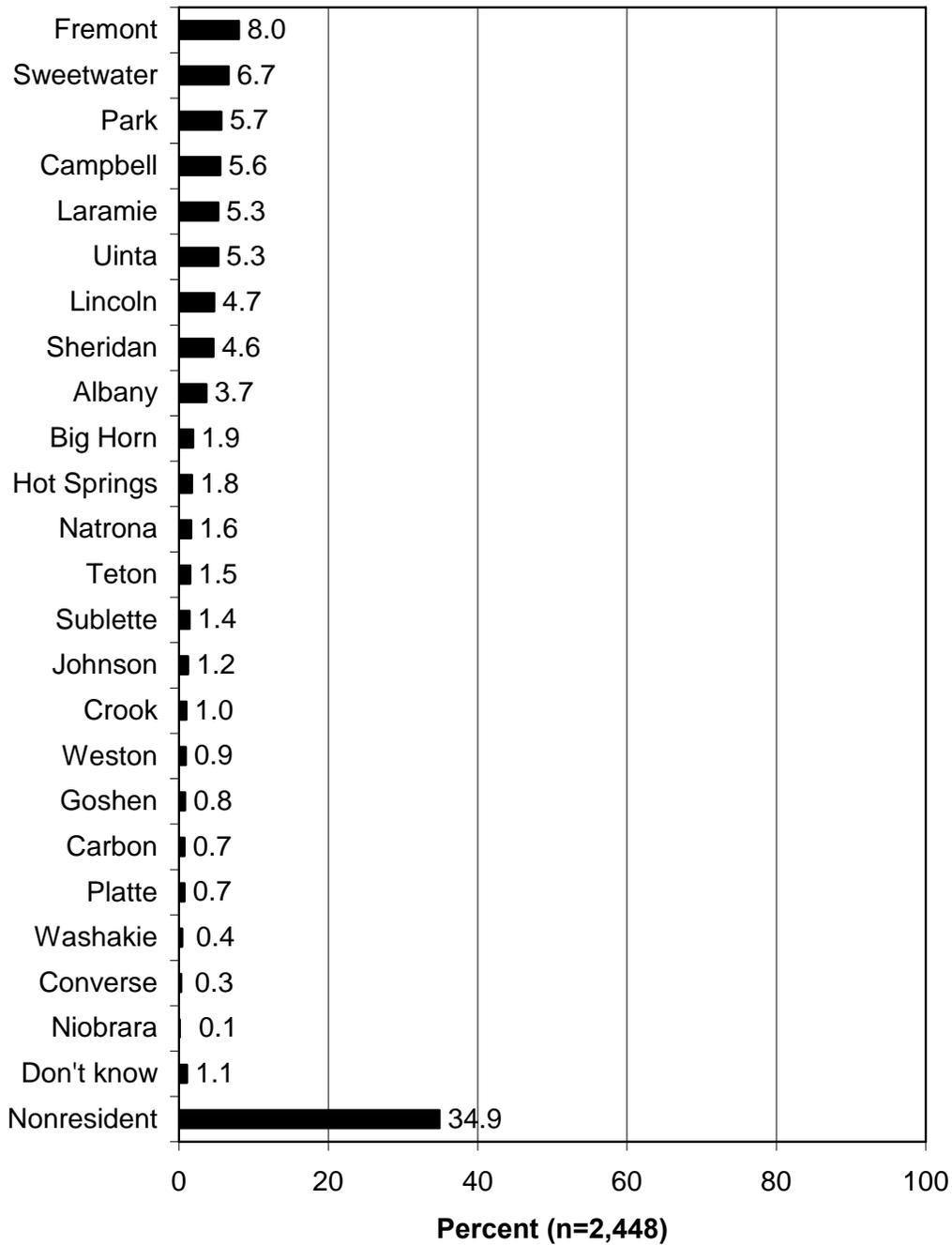


**Q114. Respondent's age.  
(Residents versus nonresidents.)**

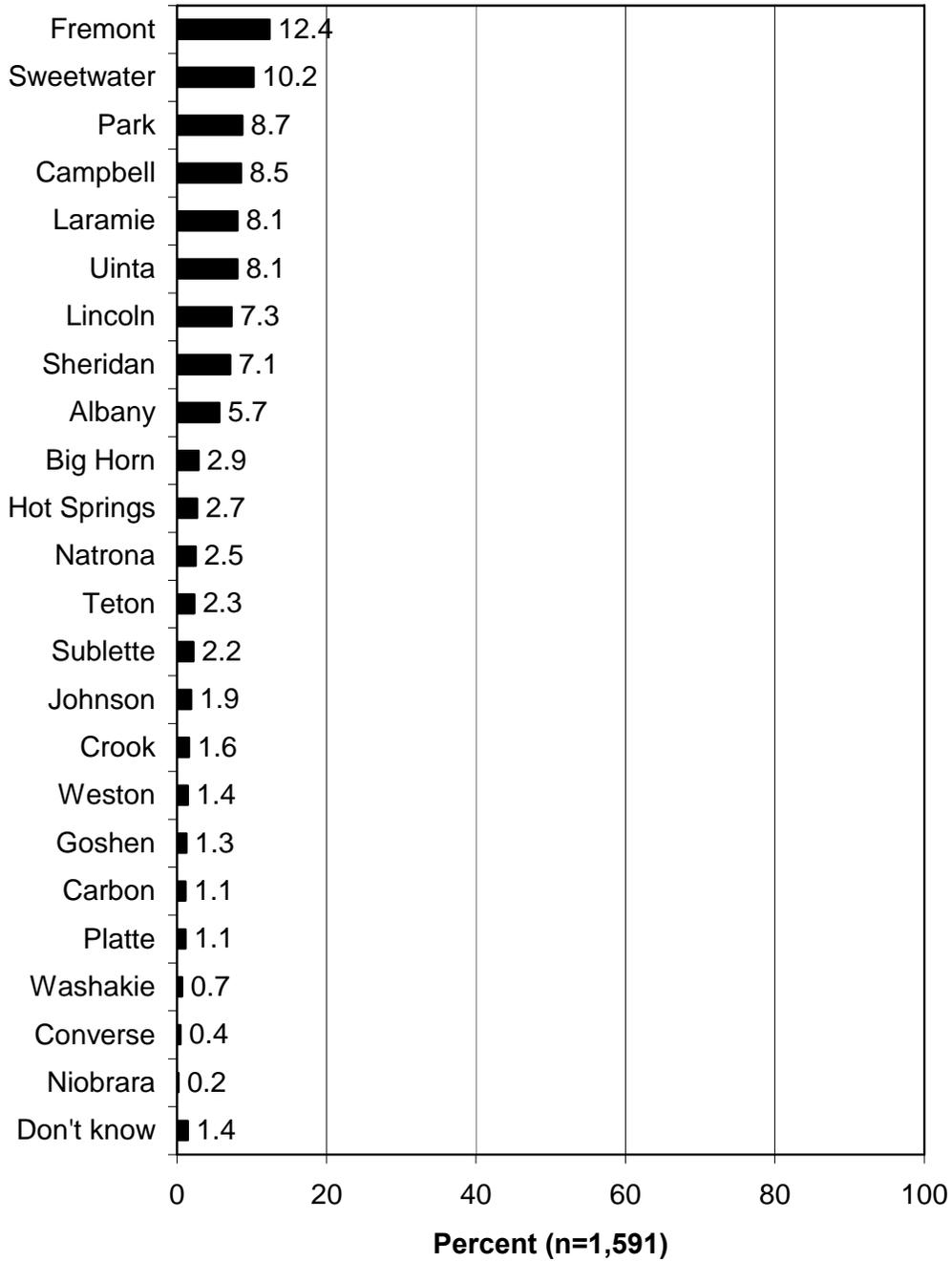


<b>Q114. Respondent's age.</b>										
	<b>Casper (n=296)</b>	<b>Cody (n=453)</b>	<b>Green River (n=320)</b>	<b>Jackson (n=167)</b>	<b>Lander (n=216)</b>	<b>Laramie (n=323)</b>	<b>Pinedale (n=113)</b>	<b>Sheridan (n=441)</b>	<b>Don't know (n=119)</b>	<b>Total</b>
Under 18 years old	1	2	0	1	0	0	1	0	3	1
18-24 years old	3	6	8	4	5	4	5	3	4	5
25-34 years old	22	17	20	18	19	19	21	18	13	19
35-44 years old	20	18	21	22	14	21	21	17	18	19
45-54 years old	18	20	18	22	21	19	18	24	17	20
55-64 years old	20	21	17	18	25	22	18	19	19	20
65 years old or older	15	17	15	14	14	13	15	17	24	16
Don't know	0	0	1	1	1	1	1	1	1	1
Refused	1	0	1	1	0	0	0	0	2	1
Mean	47.32	47.84	46.17	46.61	48.27	47.10	46.15	48.76	49.81	47.60
Median	47	49	45	47	51	47	45	50	52	48

**Q112. What county do you live in?  
(Statewide: residents and nonresidents.)**



**Q112. What county do you live in?  
(Among residents.)**



## APPENDIX A: SURVEY QUESTIONS

The survey questions are shown below. The telephone survey questionnaire was developed cooperatively by the WGFD and Responsive Management. The questionnaire was coded for telephone interviews using Questionnaire Programming Language (QPL). The survey questionnaire was programmed so that QPL branched, coded, and substituted phrases in the survey based on previous responses. To enhance the readability, only the questions and some of the code are shown; error checkers and computation statements have been deleted.

### Wyoming Mule Deer Hunter Survey 2012

4. Hello, my name is \_\_\_\_\_, may I speak with \_\_\_\_\_? I'm calling on behalf of the Wyoming Game and Fish Department to ask you about mule deer hunting and mule deer management in Wyoming. You may have recently heard about this study on Wyoming Public Radio or the Cowboy State News Network. Your opinions are valuable to the Department to better manage mule deer populations. Do you have a few minutes to answer some questions?

7. Our records indicate that you had a valid Wyoming hunting license within the past 5 years. Did you hunt MULE DEER in WYOMING in the past 5 years? [SCREENER]

10. How many years total have you been hunting mule deer in Wyoming?

13. How many years, out of the last 5 years, did you hunt mule deer in Wyoming?

14. In the past 5 years, about how many days per year did you typically hunt mule deer in Wyoming?

17. How many of the past 5 years did you harvest a mule deer in Wyoming?

19. How far, in miles, are you willing to travel, one-way, from home to hunt mule deer in Wyoming?

22. In how many different hunt areas do you typically hunt mule deer in one season in Wyoming?

25. In what hunt area in Wyoming have you hunted mule deer the most often in the past 5 years?

IF QUESTION 25 = "Don't know" GO TO QUESTION 26

SKIP TO QUESTION 29

26. What town was closest to the hunt area in Wyoming that you most often hunted mule deer in the past 5 years?

(IF TOWN UNKNOWN: Were there any nearby roads or landmarks that may help us determine where you most often hunted mule deer in the past 5 years?) \_\_\_\_\_

29. What were the main reasons you chose the hunt area where you most often hunted mule deer last season?

31. Thinking about when you've hunted mule deer, what is your most important reason for hunting? Would you say it is...?

For the meat

For a trophy

To be with family and friends

For the sport and recreation

To get outdoors

To visit a place that is special to me

35. What do you look for in a quality mule deer hunt? (Would you say...?)

37. Are there any reasons you may not have hunted mule deer in Wyoming as much as you would have liked in the past 5 years?

Yes (GO TO QUESTION 40)

No (GO TO QUESTION 42)

(DNR) Don't know (GO TO QUESTION 42)

40. What are they?

42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?

43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming?

- Very satisfied (GO TO QUESTION 46)
Somewhat satisfied (GO TO QUESTION 46)
Neither satisfied nor dissatisfied (GO TO QUESTION 54)
Somewhat dissatisfied (GO TO QUESTION 46)
Very dissatisfied (GO TO QUESTION 46)
(DNR) Don't know (GO TO QUESTION 54)

46. What were the reasons for your level of satisfaction with the quality of your mule deer hunting experience in Wyoming?

- Plenty of mule deer
Not enough mule deer
Harvest success
Did not harvest any/enough deer
Issue related specifically to resident hunters (DATA OBTAINED AT QUESTION 48)
Issue related specifically to nonresident hunters (DATA OBTAINED AT QUESTION 49)
Crowded / too many hunters (DATA OBTAINED AT QUESTION 50)
Not crowded / not too many hunters
Good location / hunting environment
Bad location / hunting environment
Enjoys hunting
Does not like hunting regulations / management
Other (DATA OBTAINED AT QUESTION 47)
Don't know

47. ENTER OTHER REASON(S) FOR LEVEL OF SATISFACTION WITH QUALITY OF MULE DEER HUNTING EXPERIENCE IN WYOMING.

48. What are the specific issues related to resident hunters that contributed to your level of satisfaction?

49. What are the specific issues related to nonresident hunters that contributed to your level of satisfaction?

50. You said that crowding or too many other hunters affected your satisfaction with mule deer hunting in Wyoming. How many other hunters did you see in the field the last time you felt there were too many hunters?

53. INTERVIEWER: DO NOT ASK BUT PLEASE INDICATE IF THE RESPONDENT INDICATED THAT CROWDING/TOO MANY HUNTERS WERE SPECIFICALLY RESIDENT OR NONRESIDENT HUNTERS.

- Did not specify
Too many RESIDENT hunters
Too many NONRESIDENT hunters

54. Would you say the number of hunters in the field has increased, stayed the same, or decreased in the hunt area you most often hunted mule deer in Wyoming in the past 5 years?

55. Would you say there were more hunters than you expected, about the number of hunters you expected, or fewer hunters than you expected in the hunt area you most often hunted mule deer in Wyoming in the past 5 years?

56. Now I have several statements relating to YOUR IMPRESSIONS of the hunt area where you most often hunted mule deer in Wyoming in the past 5 years. Please tell me if you agree or disagree with each statement.

[THE QUESTIONS ARE ADMINISTERED IN RANDOM ORDER]

- 58. There were too many hunters in the area.
59. There was enough access to hunt mule deer on private land.
60. Public lands were marked well during mule deer hunting season.
61. The number of bucks in the area was adequate in the past 5 years.

62. What is the MINIMUM number of points on ONE SIDE that a buck should have for you to consider a deer a trophy buck?
63. What is the MINIMUM antler spread, in inches, that a buck should have for you to consider a deer a trophy buck?
64. Now I'd like to ask you some questions about mule deer management in Wyoming.
65. Do you think the Wyoming Game and Fish Department is doing an excellent, good, fair, or poor job of managing the mule deer population in the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?
68. In general, what factors do you think control the ability of the mule deer herds in Wyoming to increase or decrease annually?
70. Have you ever participated in an antlerless mule deer hunt in Wyoming?
71. Do you agree or disagree that antlerless deer harvest is an acceptable mule deer management tool?
72. Youth in Wyoming are currently allowed to harvest any deer during the season in which adults can only hunt for antlered deer. How acceptable or unacceptable is it for youth hunters to harvest an antlerless deer during a season that permits adults to harvest antlered deer only?
73. How important is it to you, personally, to hunt mule deer in Wyoming every year?
74. Would you support or oppose limiting the number of hunters in the field in Wyoming, even if it makes it less likely that you would draw a license?
75. How acceptable or unacceptable is it to you to only be able to hunt in ONE hunt area every year?
76. Now I am going to ask you about general seasons and limited quota seasons. General seasons allow you the opportunity to hunt every year in multiple areas that have general hunting seasons. You may see more hunters and may have a reduced chance of harvesting a deer. Limited quota seasons mean that you have to apply for the draw to hunt in a single area and may not get a license every year and cannot hunt multiple areas in a given year. You also may see fewer hunters and may have a greater chance of harvesting a deer.
- Do you prefer general seasons or limited quota seasons?
- General Seasons (GO TO QUESTION 77)
- Limited Quota Seasons (GO TO QUESTION 78)
- (DNR) No preference / don't know (GO TO QUESTION 79)
77. Why do you prefer general seasons? \_\_\_\_\_
78. Why do you prefer limited quota seasons? \_\_\_\_\_
79. If the Wyoming Game and Fish Department were to use limited quota seasons for mule deer hunting, how acceptable or unacceptable would limited quota seasons in ALL hunt areas in Wyoming be to you?
80. Would you support or oppose a hunting season structure in which state residents could obtain a general license but are required to select a REGION of the state to hunt, similar to the way nonresident hunters do now, in order to reduce hunter numbers?  
(IF ASKED: A nonresident hunter chooses one region, which has four to five adjacent hunt areas and they may hunt in any of those hunt areas.)
81. Would you consider delaying your hunt until later in the season if there were a chance of encountering fewer hunters after opening day?
82. How willing would you be to pay more than the current fee for a mule deer license if it meant you might encounter fewer hunters in the field?
83. Did you use archery equipment or firearms most often to hunt mule deer in Wyoming in the past 5 years, or did you use both about equally?
84. We are interested in hearing your opinion about limiting licenses and seasons to only allow hunting with one type of weapon on the particular license a hunter may have. Currently in Wyoming, mule deer hunters can, in most situations, archery hunt with their license during the "special archery" season, and if unsuccessful, hunt later on with any legal weapon during the firearms season.

85. Would you prefer regulations in which hunters must CHOOSE to hunt on a license valid for archery hunting or to hunt on a license valid for firearm hunting but not both, OR would you prefer the CURRENT regulations?

(IF ASKED: Regulations in which hunters must CHOOSE means, for example, that a hunter would either be hunting during the archery season with a bow or during the rifle season with a rifle; a hunter could NOT do both.)

(IF ASKED: In CURRENT regulations, Wyoming has a "special archery" season that allows an archery hunter, if unsuccessful during the "special" season, to hunt later with that same license during the regular firearms season with any legal weapon.

Wyoming also has an "archery only" season that limits the archer to the season specified in the regulation for his license, and if the archer is unsuccessful, the license is NOT valid to hunt later during the regular firearms season.)

=====

[THESE TWO QUESTIONS ARE ADMINISTERED IN RANDOM ORDER]

87. In your opinion, how important is the QUALITY of habitat on mule deer ranges in determining the survival of mule deer in Wyoming?

88. In your opinion, how important is the AMOUNT of habitat on mule deer ranges in determining the survival of mule deer in Wyoming?

=====

89. Do you think the quality of mule deer habitat in Wyoming has improved, remained the same, or gotten worse in the past 5 years?

90. Do you think the quality of mule deer habitat in the hunt area where you most often hunted mule deer in the past 5 years has improved, remained the same, or gotten worse?

- Improved (GO TO QUESTION 95)
- Remained the same (GO TO QUESTION 95)
- Gotten worse (GO TO QUESTION 93)
- (DNR) Don't know (GO TO QUESTION 95)

93. What do you think are the main reasons the quality of mule deer habitat has declined in the hunt area you hunted most often in the past 5 years?

95. How acceptable or unacceptable is the amount of ORV use in the hunt area where you most often hunted mule deer in Wyoming in the past 5 years? (IF ASKED: An ORV is an off-road vehicle.)

96. How acceptable or unacceptable is the amount of ORV use on mule deer winter ranges in Wyoming? (IF ASKED: An ORV is an off-road vehicle.)

97. Would you support or oppose efforts to regulate the use of ORVs during hunting season in Wyoming? (IF ASKED: Deer hunting season typically closes by December 21 in Wyoming. Winter starts on approximately December 21.)

98. How many public meetings about hunting or mule deer issues in Wyoming have you attended in the past 5 years?  
IF QUESTION 98 = 0, GO TO QUESTION 105  
IF QUESTION 98 > 0, GO TO QUESTION 100

100. How many public meetings about hunting or mule deer issues in Wyoming have you attended in the past 12 months?  
SKIP TO QUESTION 111

105. What are the main reasons you haven't attended any public meetings about hunting or mule deer issues in Wyoming in the past 5 years?

109. Specifically, what would encourage you to attend a public meeting about hunting or mule deer issues in Wyoming?

111. Great, we're just about through. The final questions are for background information and help us analyze the results.

112. What county do you live in?

113. Have you ever used outfitter or guide services to hunt mule deer in Wyoming?

114. May I ask your age?

118. That's the end of the survey. Thank you for your time and cooperation.

119. ENTER ANY IMPORTANT NOTES ABOUT THE SURVEY.

120. OBSERVE AND RECORD RESPONDENT'S GENDER.

## **APPENDIX B: CROSSTABULATIONS OF SPECIAL INTEREST**

Several crosstabulations of data were requested by the WGFD:

- Q 43 X Q 55: Satisfaction X Expectations Regarding the Number of Hunters
- Q 43 X Q 42: Satisfaction X Whether Quality of Hunt has Improved or Gotten Worse
- Q 43 X Q 61: Satisfaction X Adequacy of Number of Bucks Seen
- Q 42 X Q 35: Quality of Hunt X What Is Looked for in a Quality Hunt
- Q 76 X Q 79: Preference on Type of Season X Opinion on Statewide Limited Quota

An additional request was for a measure of the effect on longevity in hunting mule deer on harvest success. To run the analysis, respondents were categorized into two camps: those who harvested a deer every year they went hunting in the past 5 years versus those who did not harvest a deer every year they went hunting in the past 5 years. The two resulting groups were then crosstabulated against the question about how many years respondents had been mule deer hunting to examine if long-term hunters were more successful over the past 5 years (it does not appear that there is much marked differences between the groups on harvest success in this study).

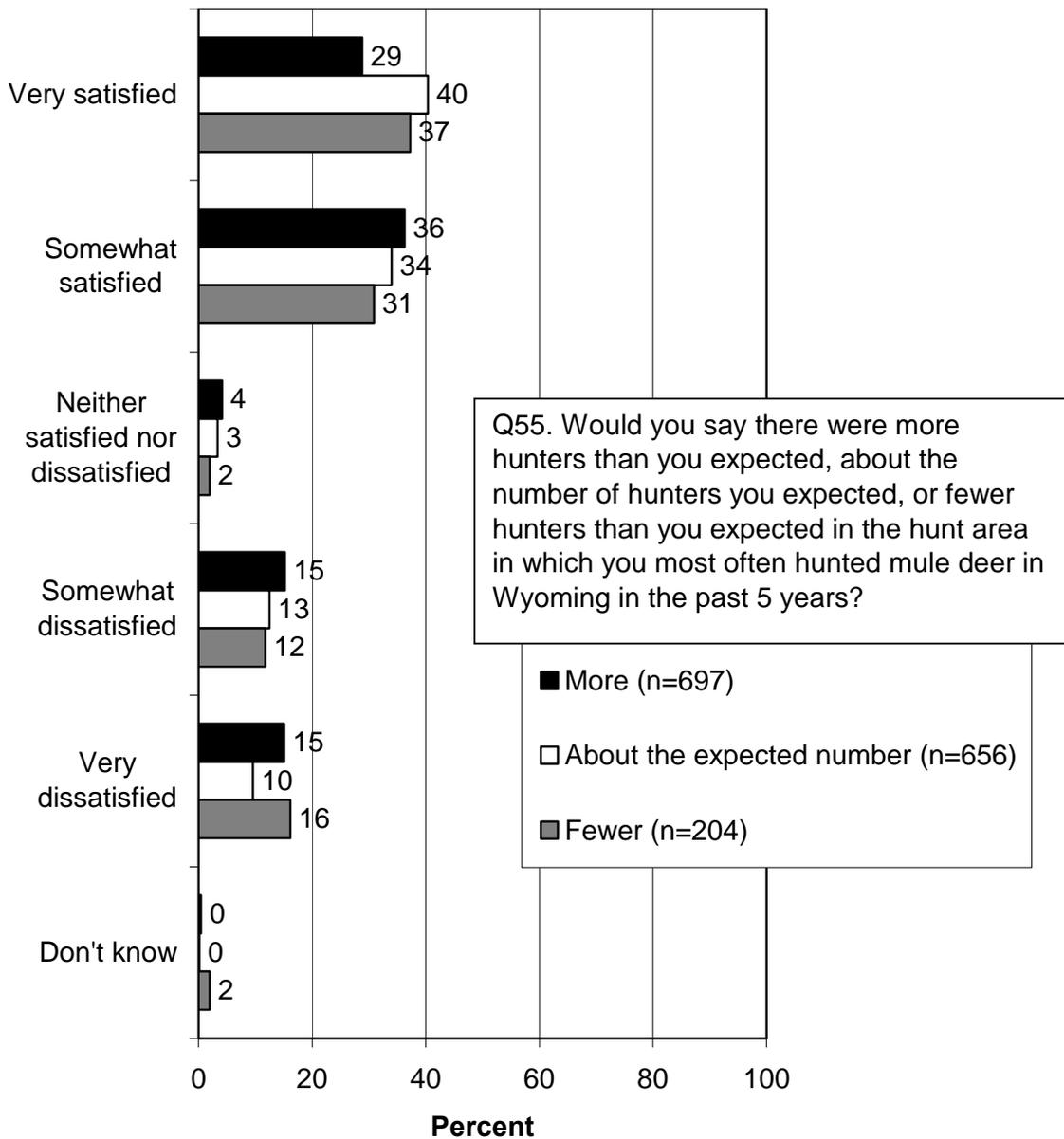
For ease of readability, the “don’t know” responses are not shown on the graphs, where applicable. Otherwise, for each question, full results are shown, followed by a graph that shows just those with an opinion either way on a question. For instance, preference on type of season (general vs. limited quota) is shown crosstabulated by three groups: those who would find limited quota seasons very or somewhat acceptable, those who would find them very or somewhat unacceptable, and those who were unsure or said “neither”; then the same crosstabulation is shown without the latter group, therefore showing only those who found the seasons acceptable and those who found them unacceptable. By showing just the ends of the continuum and excluding the middle of the continuum, the results may be easier to comprehend.

Note that results are divided into residents and nonresidents. Therefore, each crosstabulation has graphs for residents first, followed by the graphs for nonresidents.

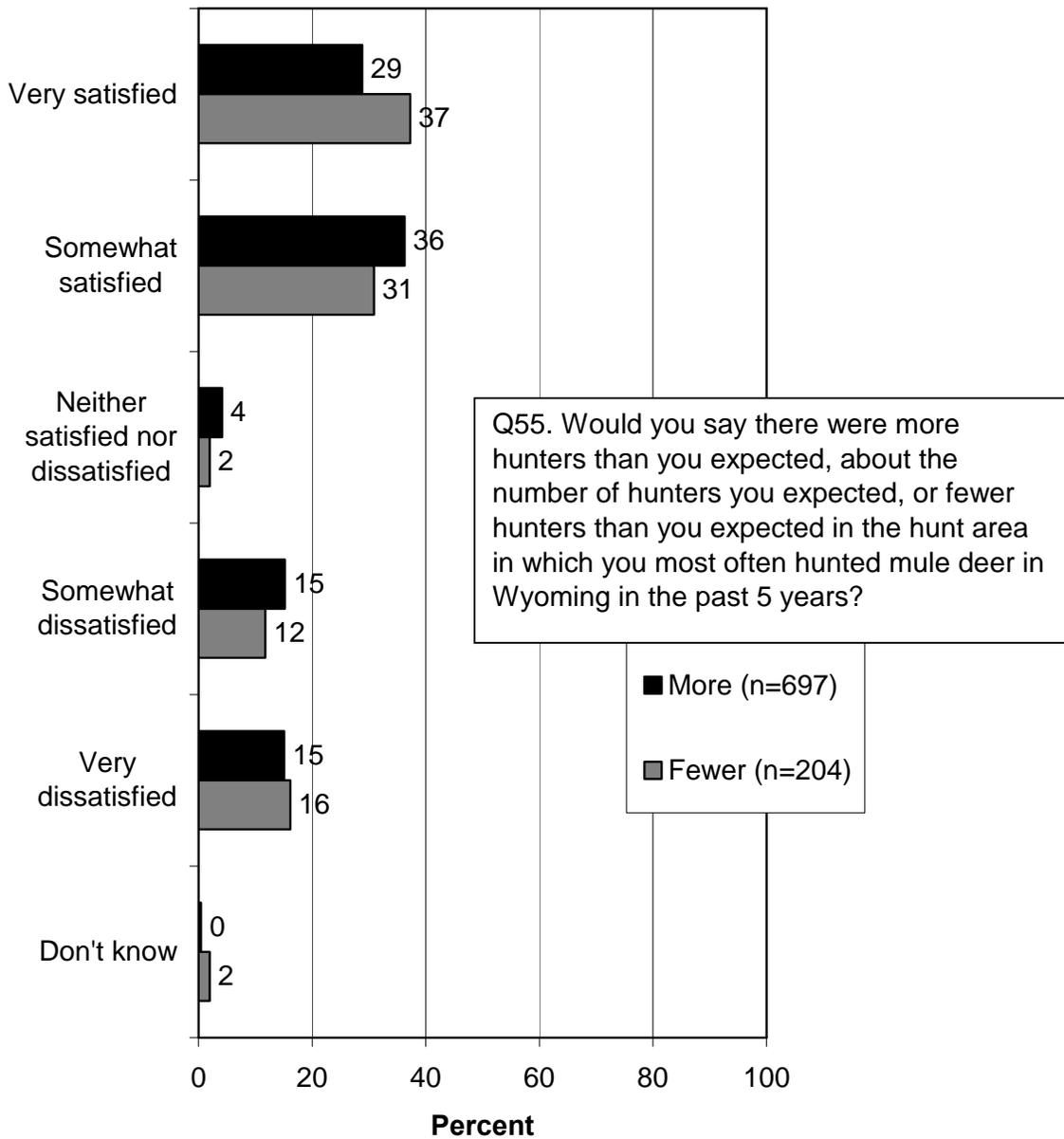
Additionally, some of the crosstabulations were shown as requested and then with “dependent” and “independent” questions switched. In other words, Q43 X Q55 is shown, and then Q55 X Q43 is shown.

**Q 43 X Q 55: Satisfaction X Expectations Regarding the Number of Hunters (8 graphs)**

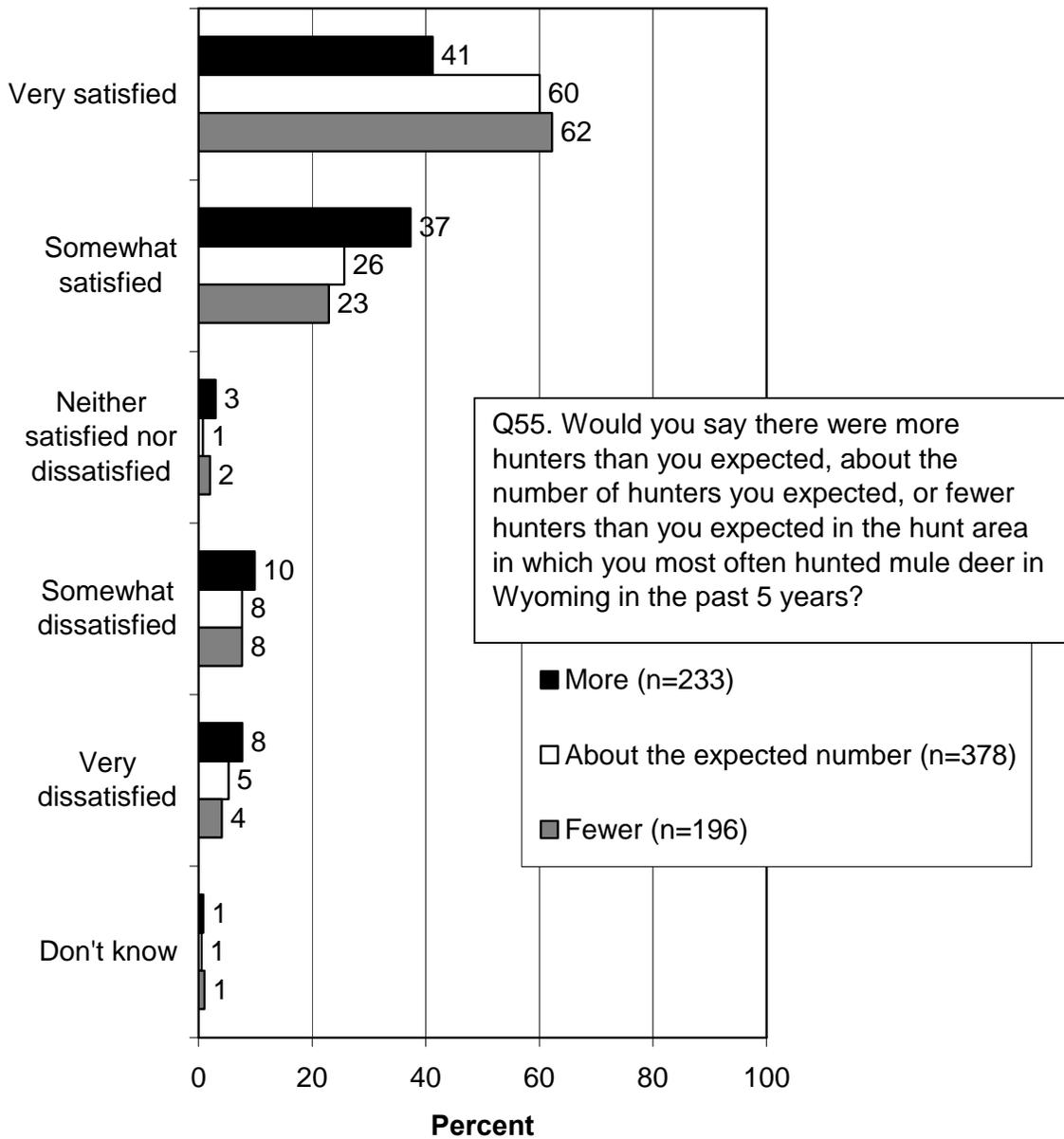
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Residents)**



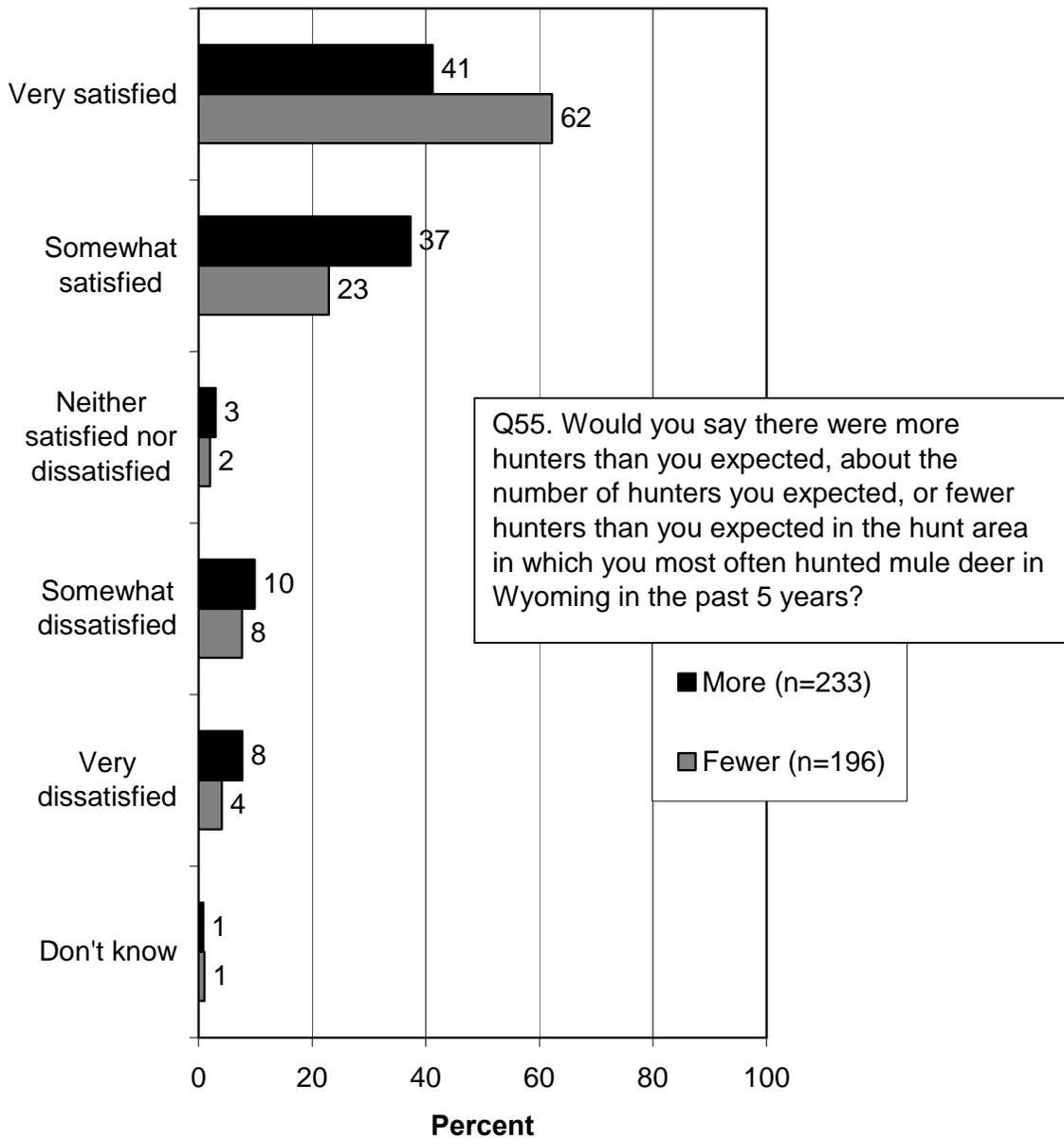
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Residents)**



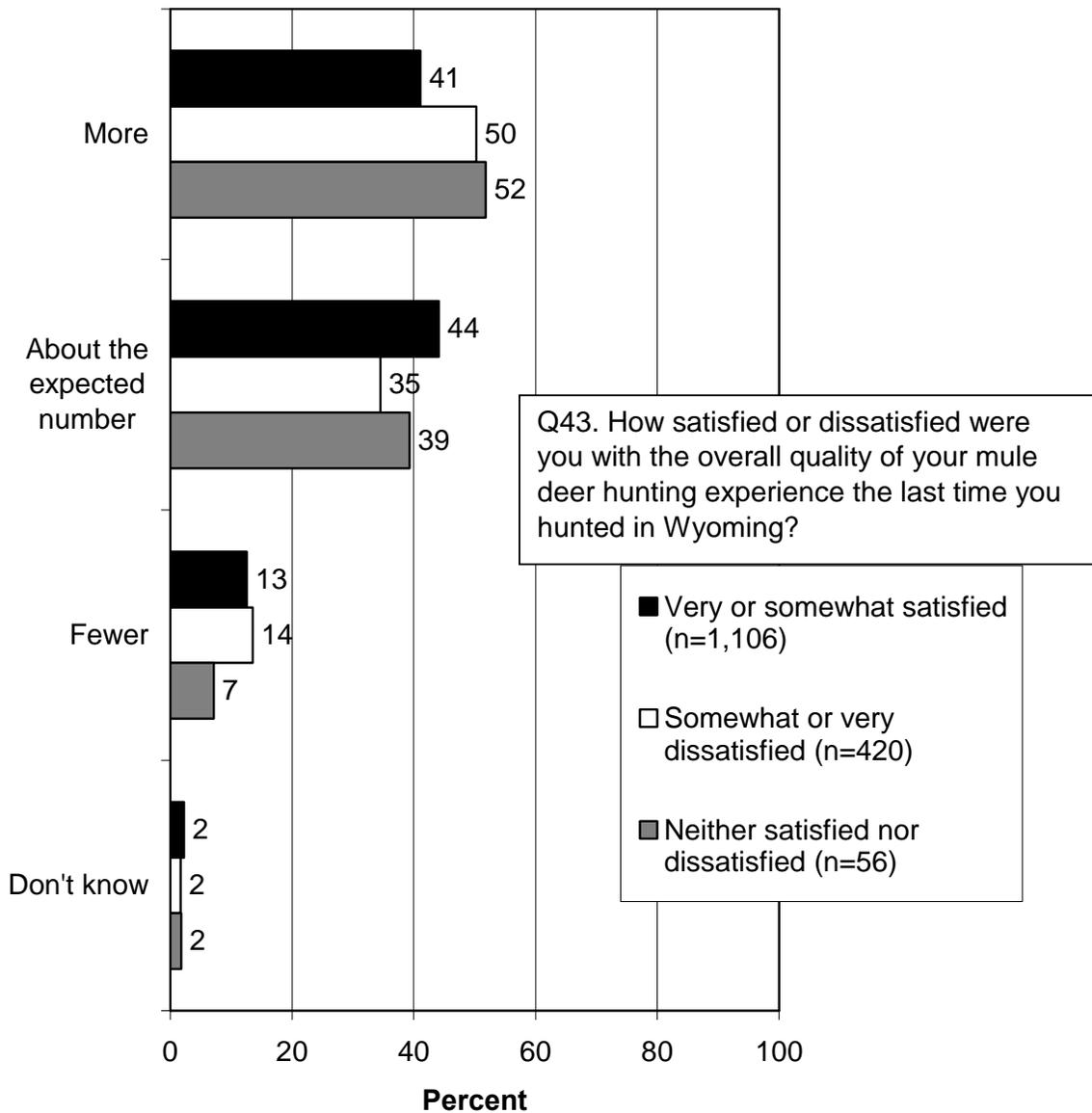
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Nonresidents)**



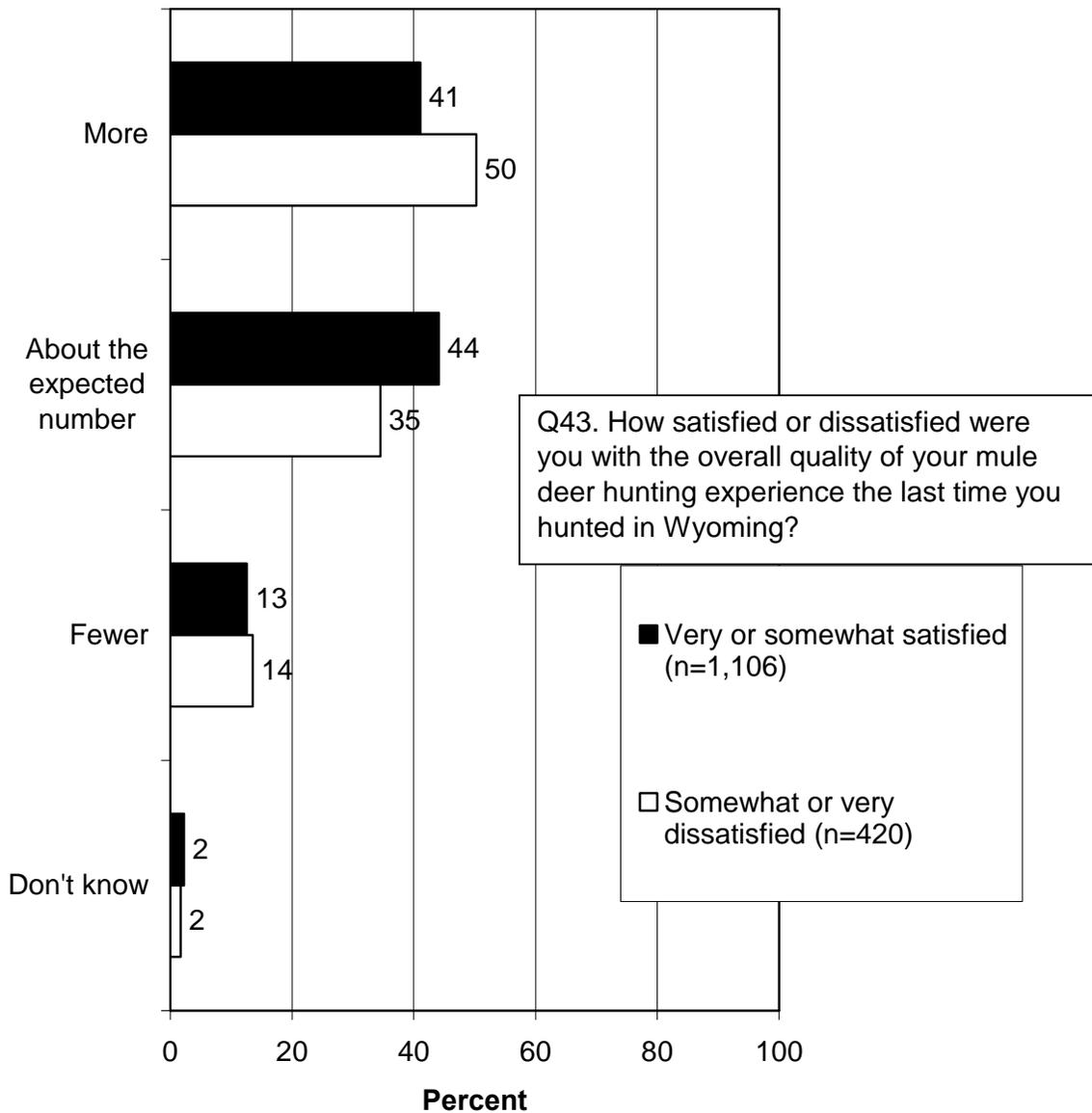
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Nonresidents)**



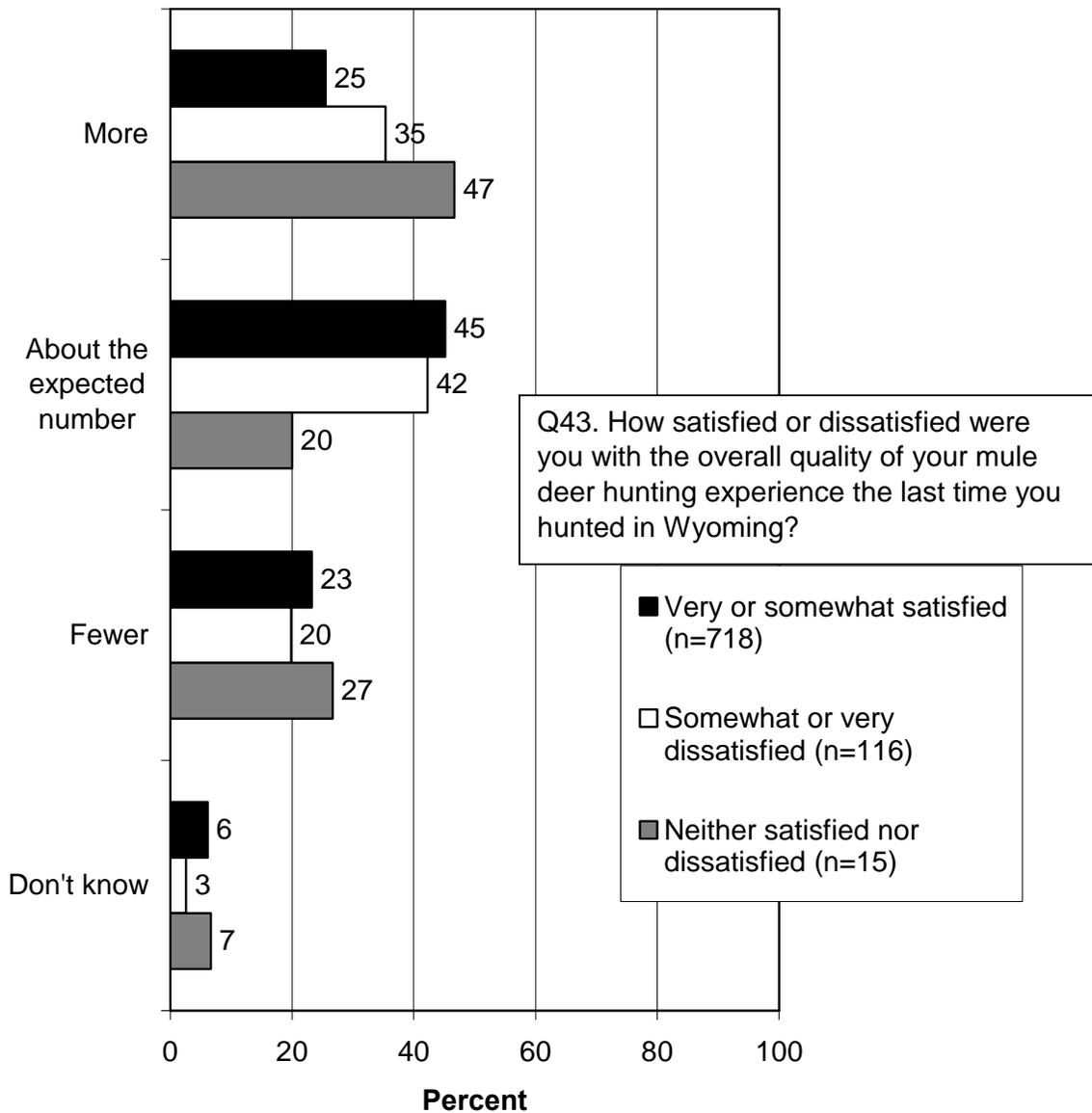
**Q55. Would you say there were more hunters than you expected, about the number of hunters you expected, or fewer hunters than you expected in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years?  
(Residents)**



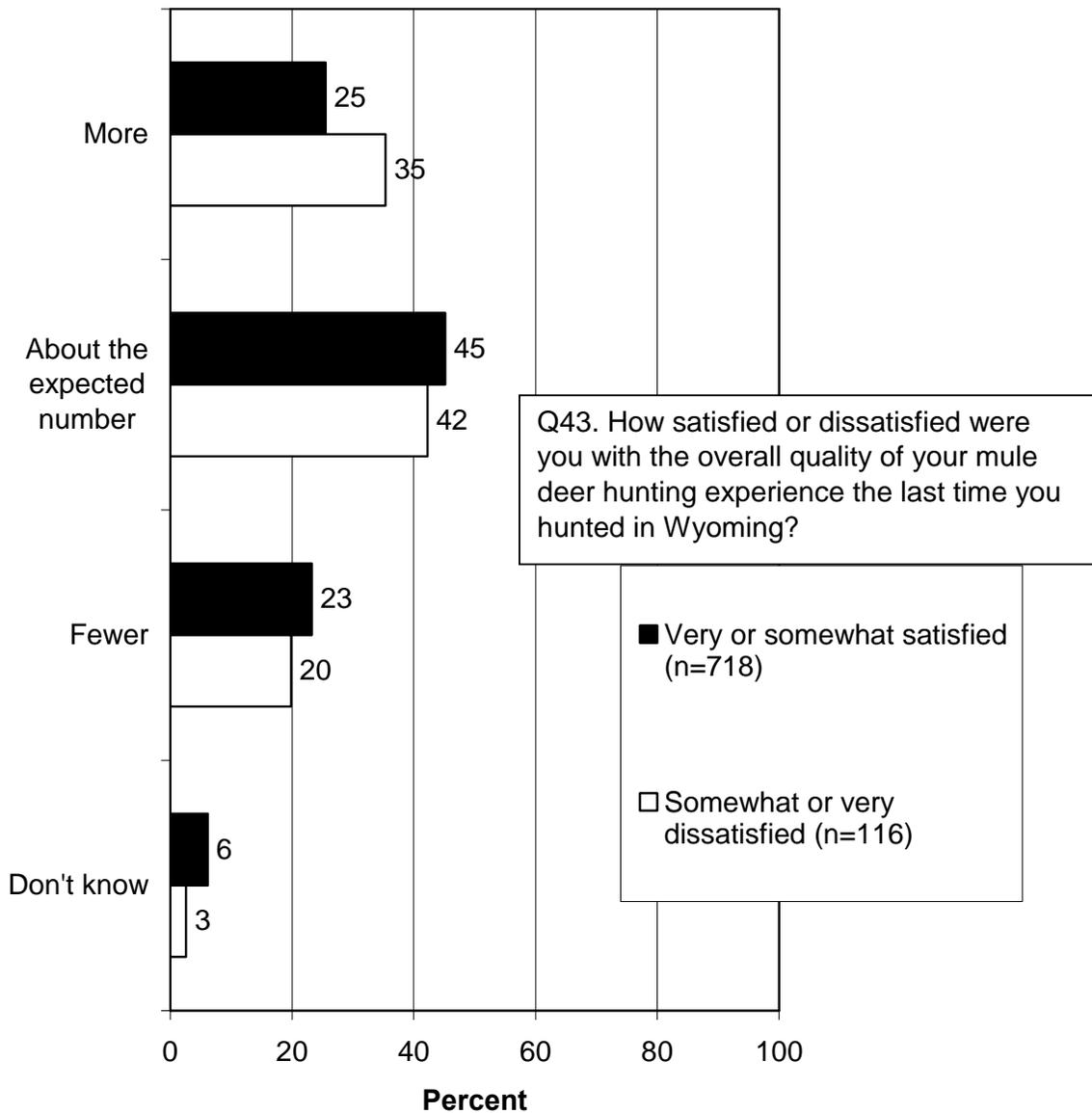
**Q55. Would you say there were more hunters than you expected, about the number of hunters you expected, or fewer hunters than you expected in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years?  
(Residents)**



**Q55. Would you say there were more hunters than you expected, about the number of hunters you expected, or fewer hunters than you expected in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years? (Nonresidents)**

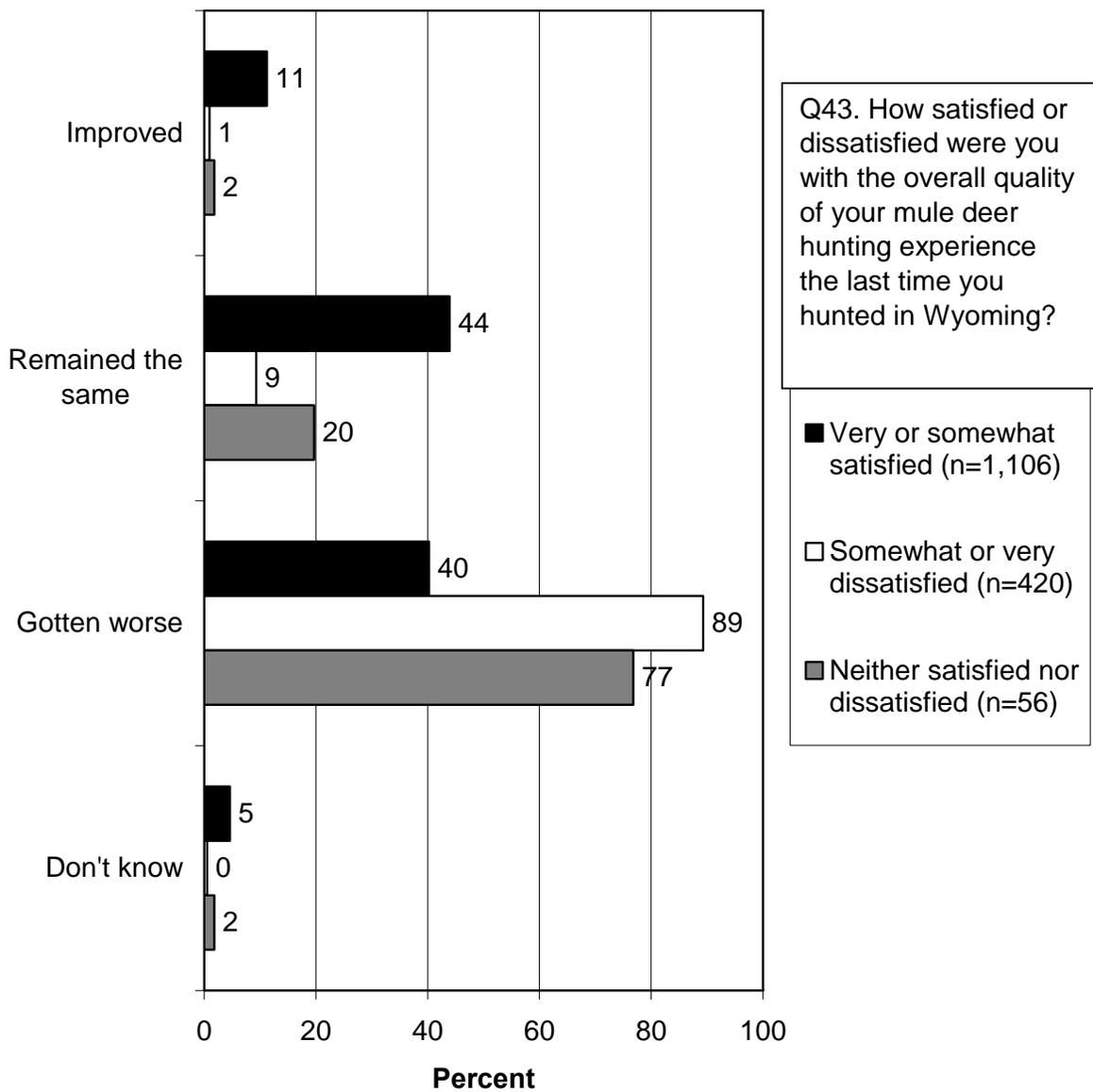


**Q55. Would you say there were more hunters than you expected, about the number of hunters you expected, or fewer hunters than you expected in the hunt area in which you most often hunted mule deer in Wyoming in the past 5 years?  
(Nonresidents)**



**Q 43 X Q 42: Satisfaction X Whether Quality of Hunt has Improved or Gotten Worse (8 graphs)**

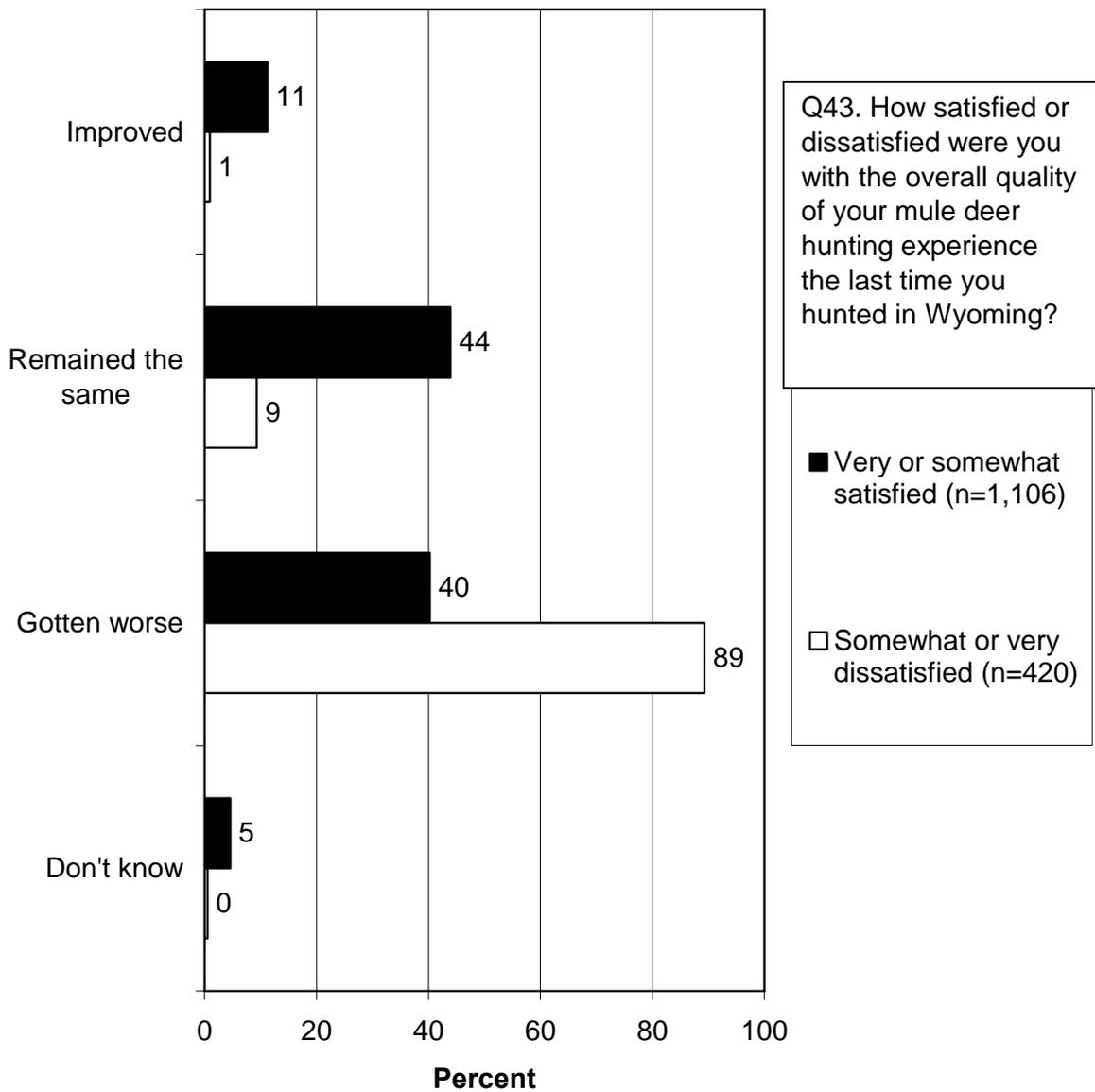
**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Residents)**



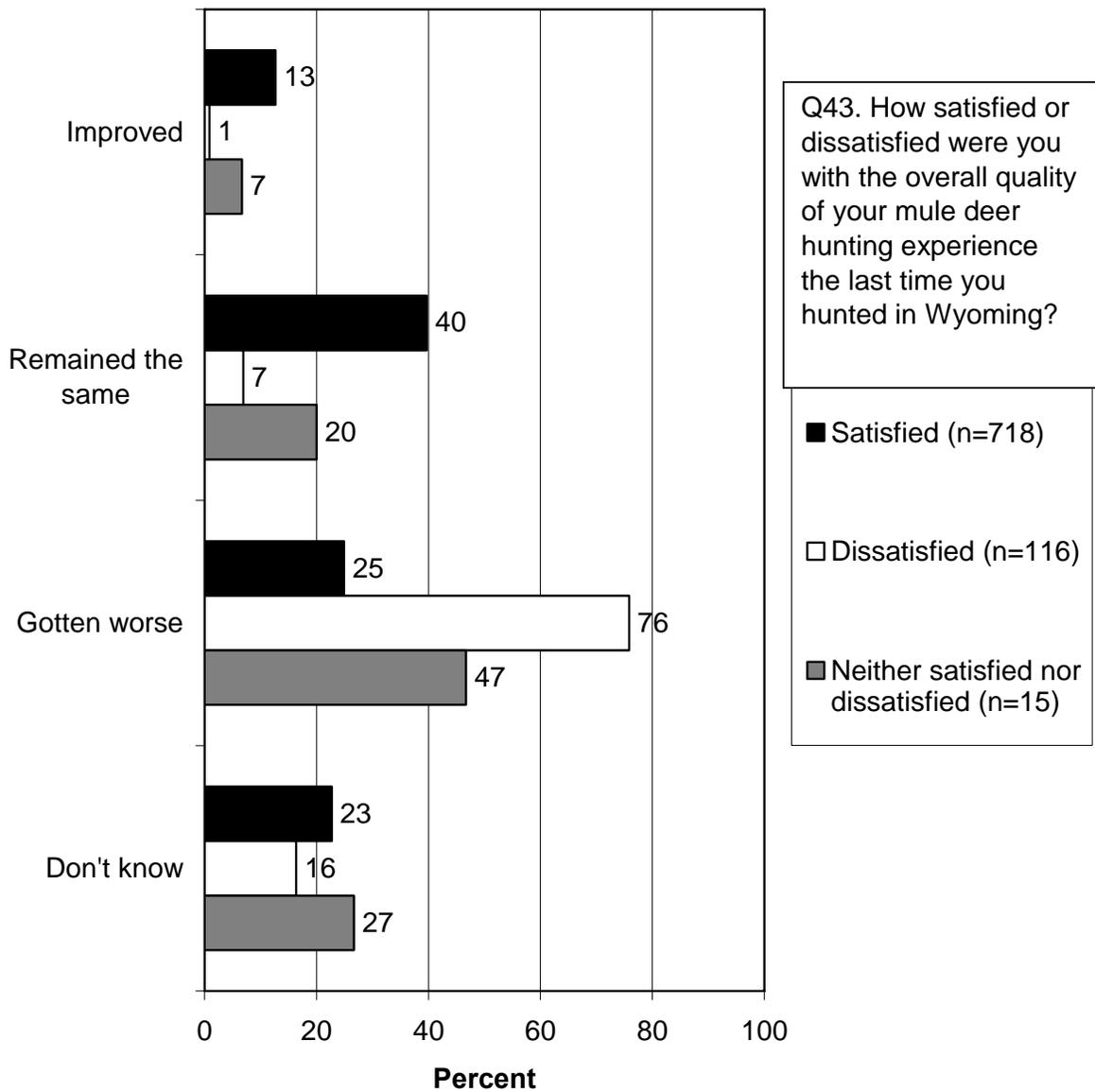
Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming?

- Very or somewhat satisfied (n=1,106)
- Somewhat or very dissatisfied (n=420)
- Neither satisfied nor dissatisfied (n=56)

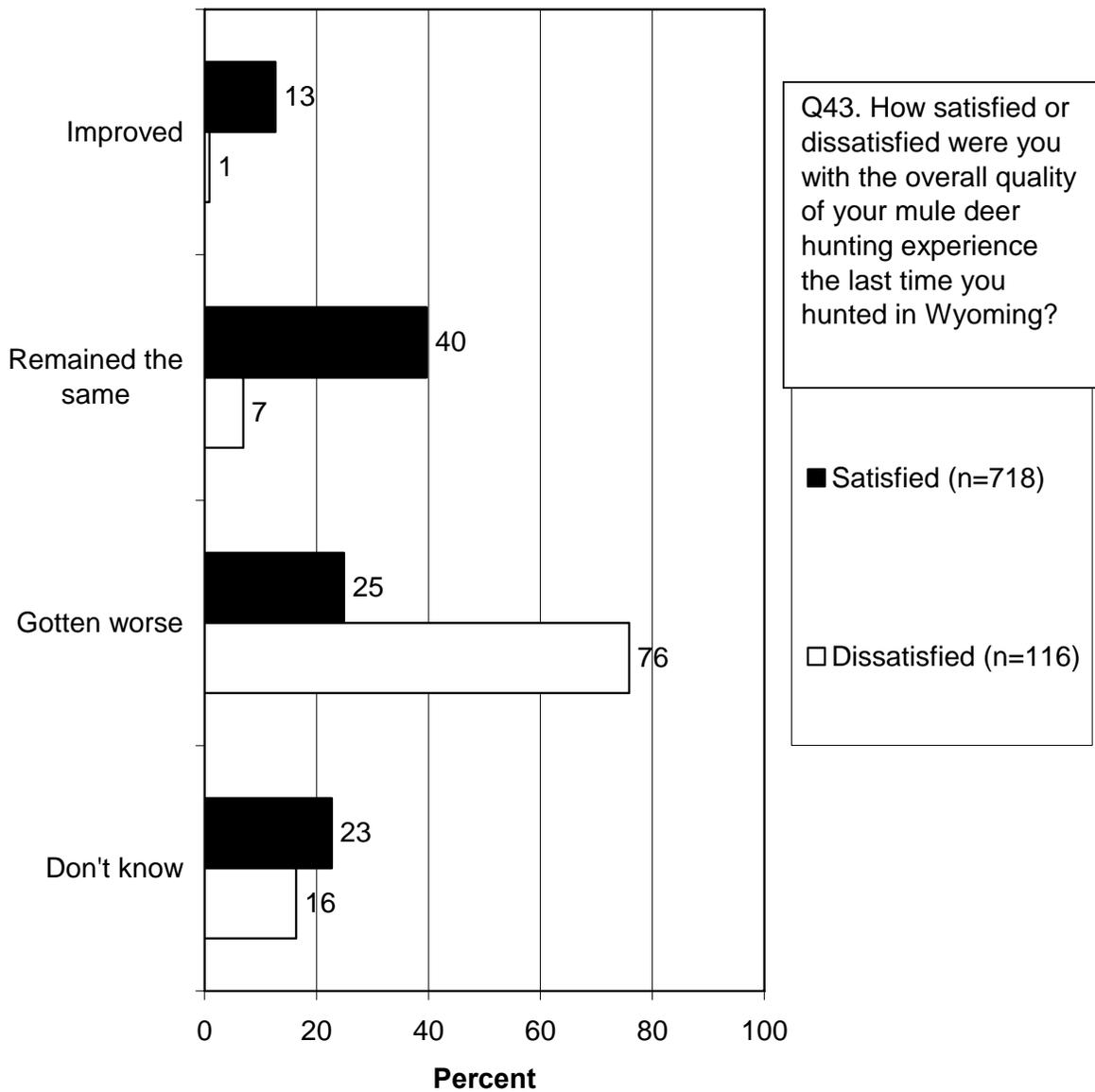
**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Residents)**



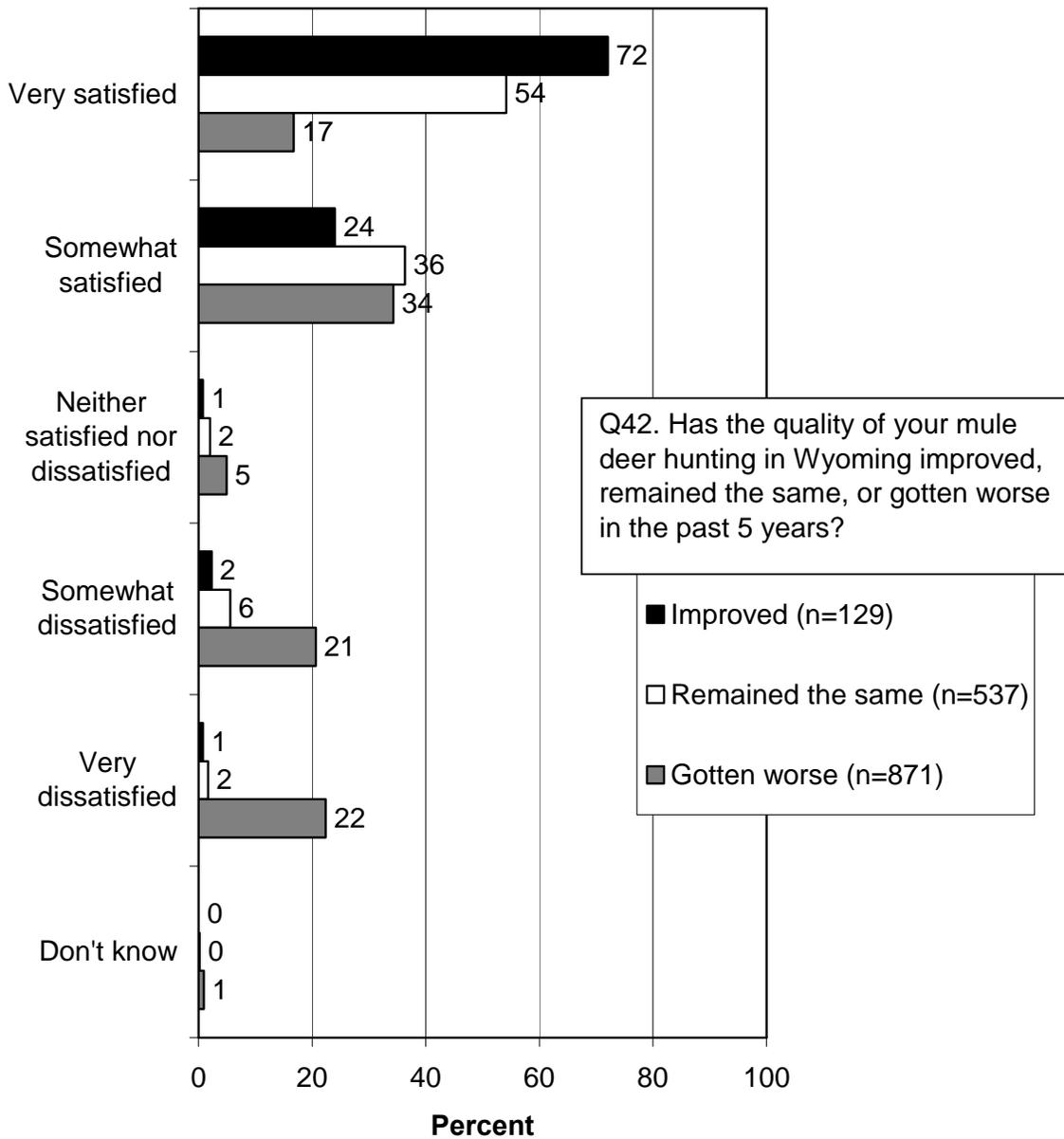
**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Nonresidents)**



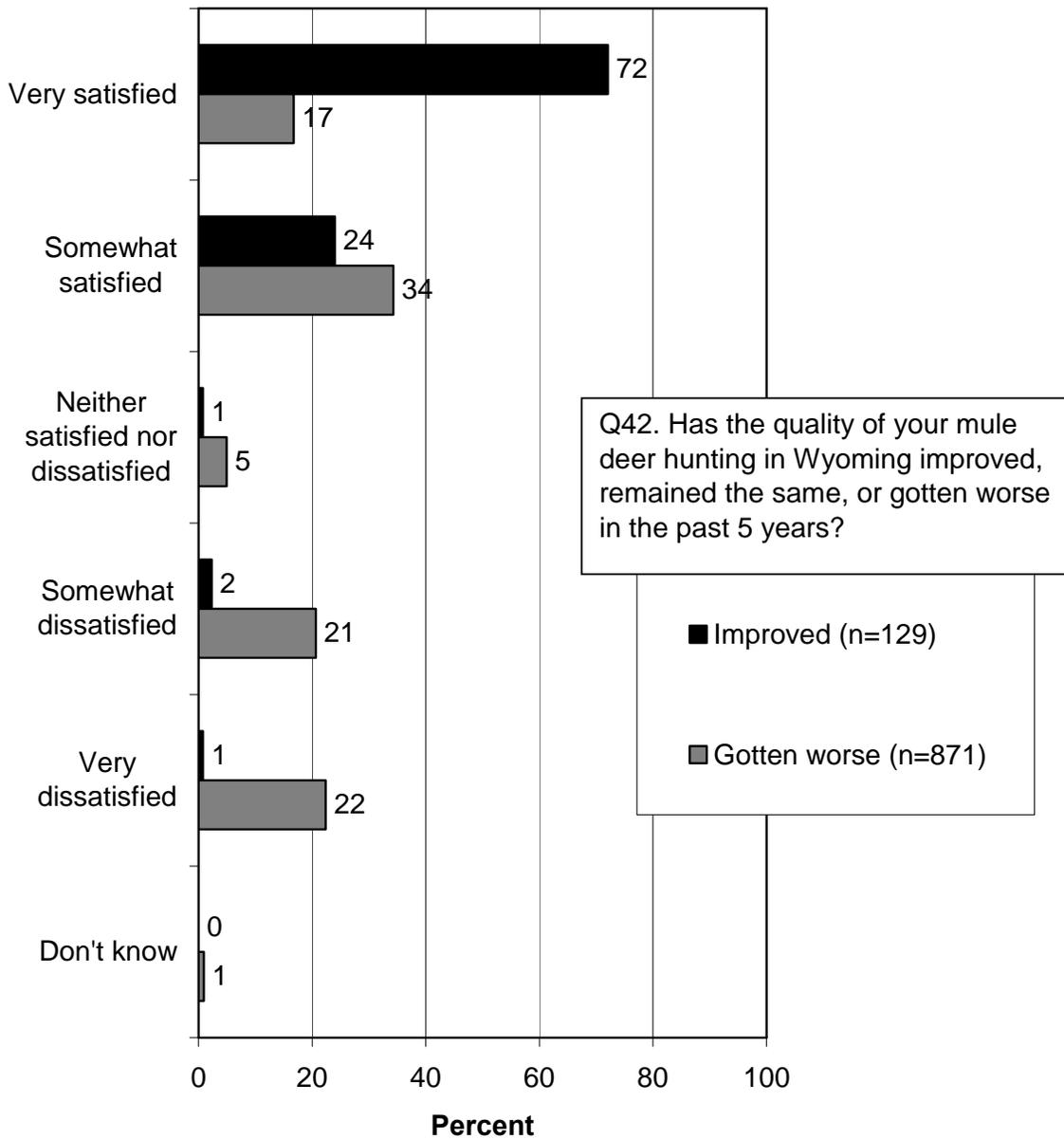
**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Nonresidents)**



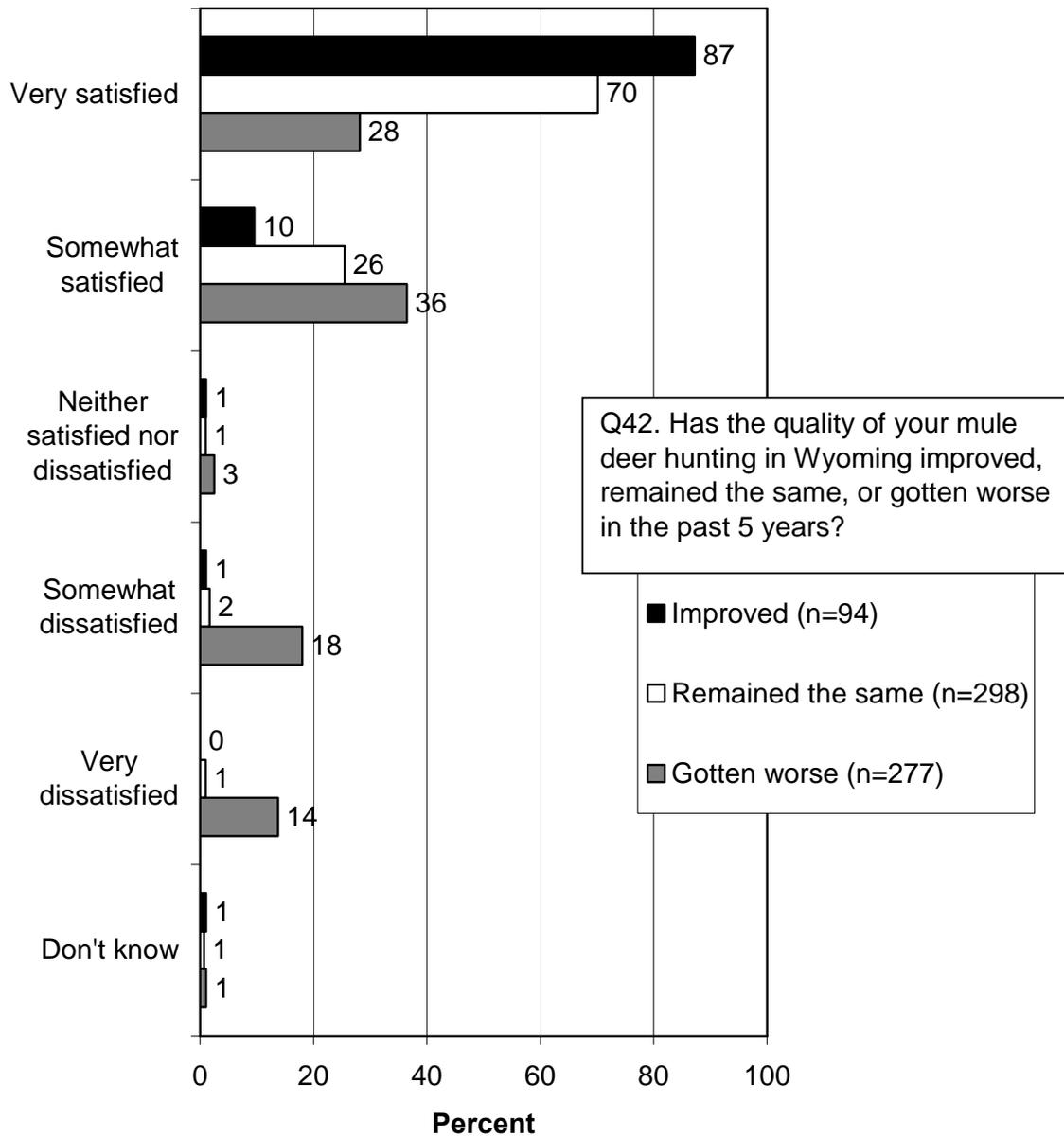
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Residents)**



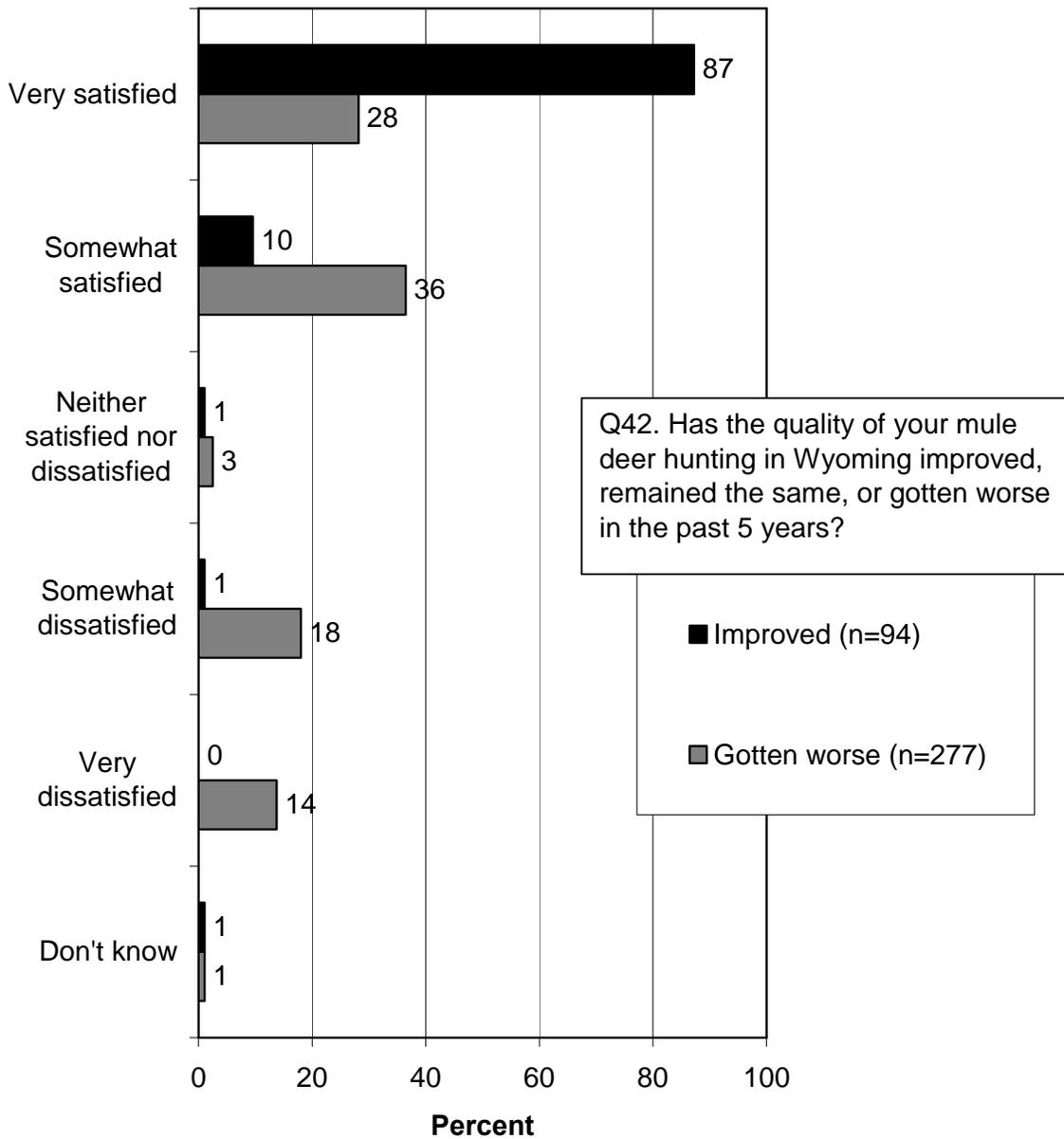
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Residents)**



**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Nonresidents)**

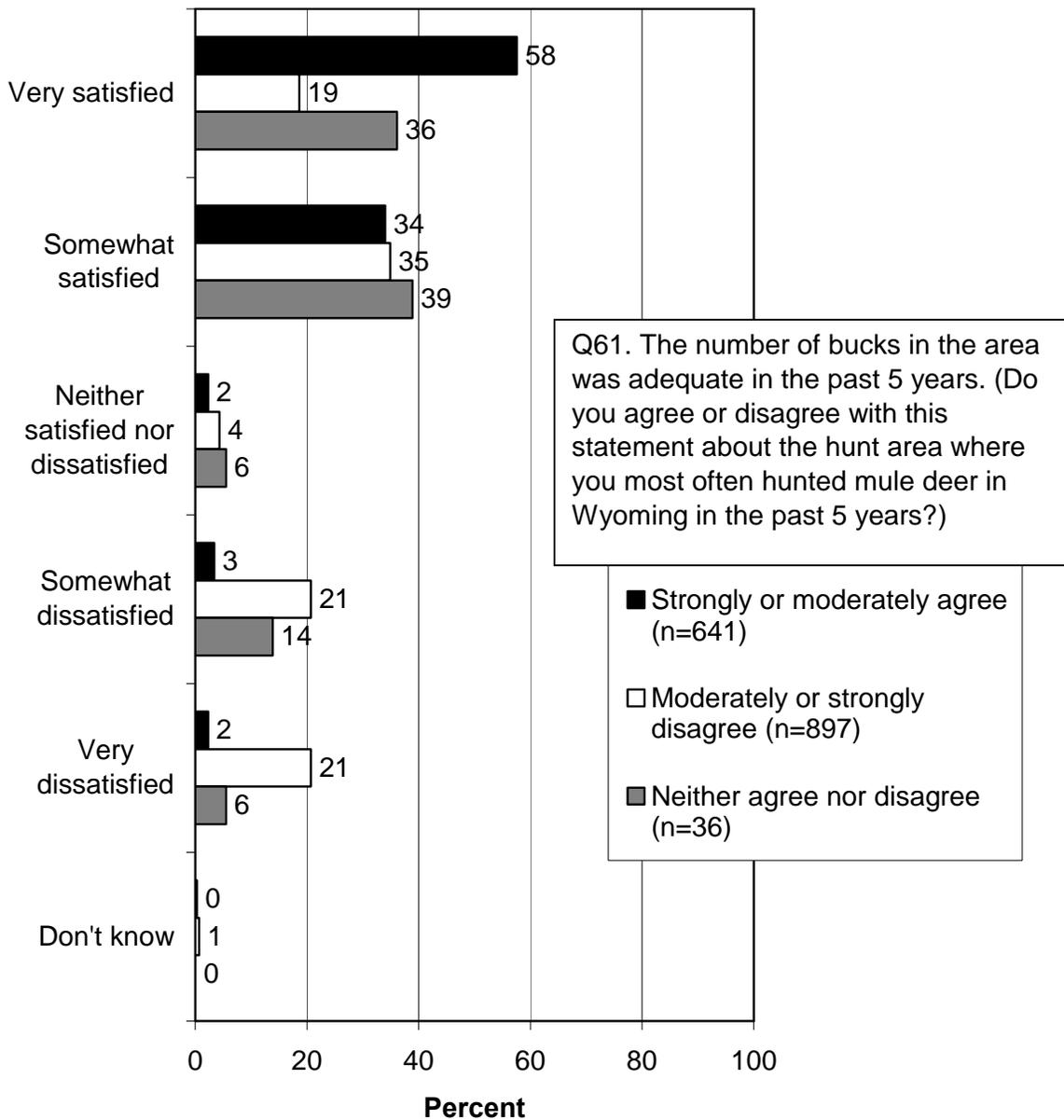


**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Nonresidents)**

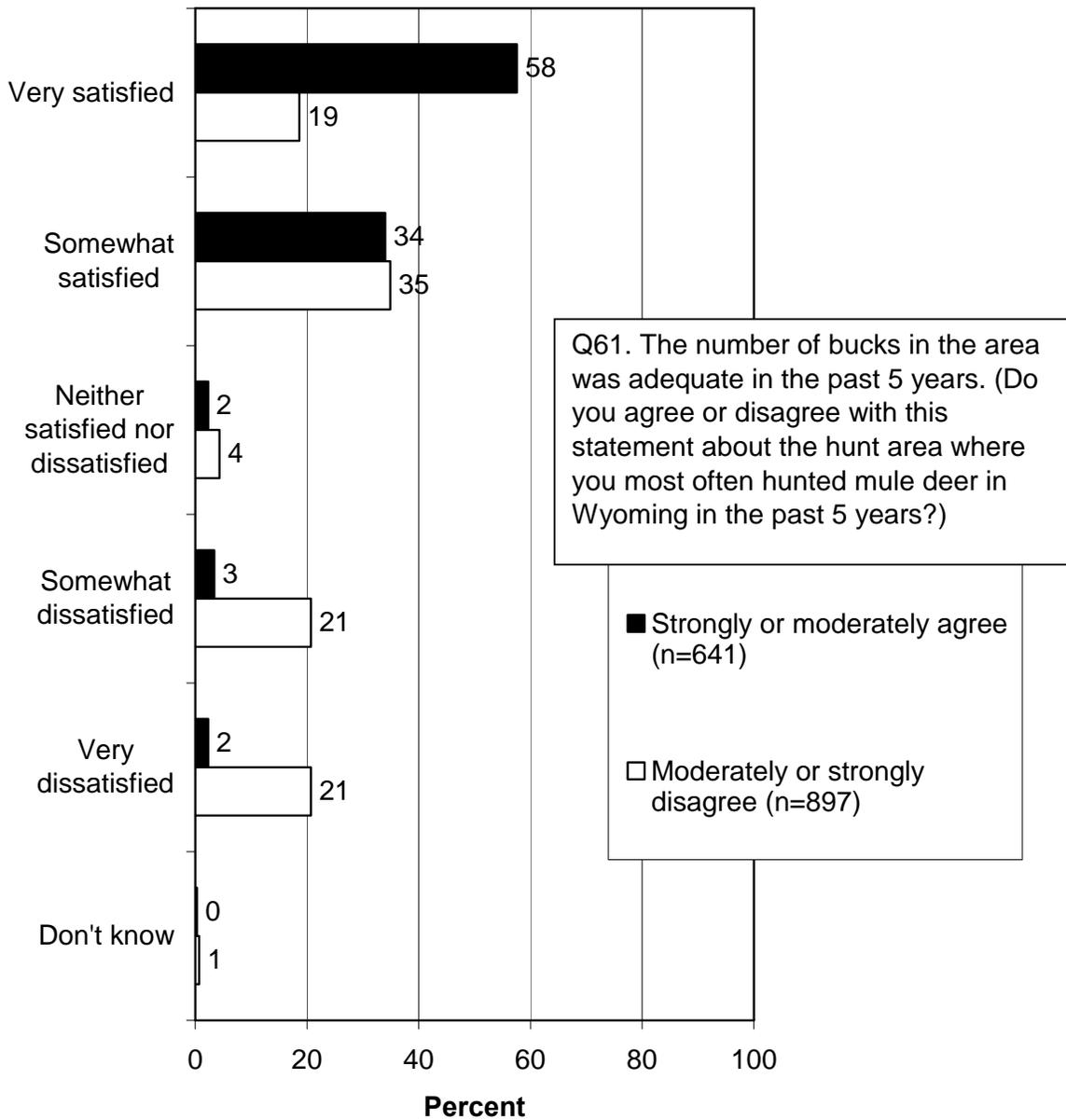


**Q 43 X Q 61: Satisfaction X Adequacy of Number of Bucks Seen (8 graphs)**

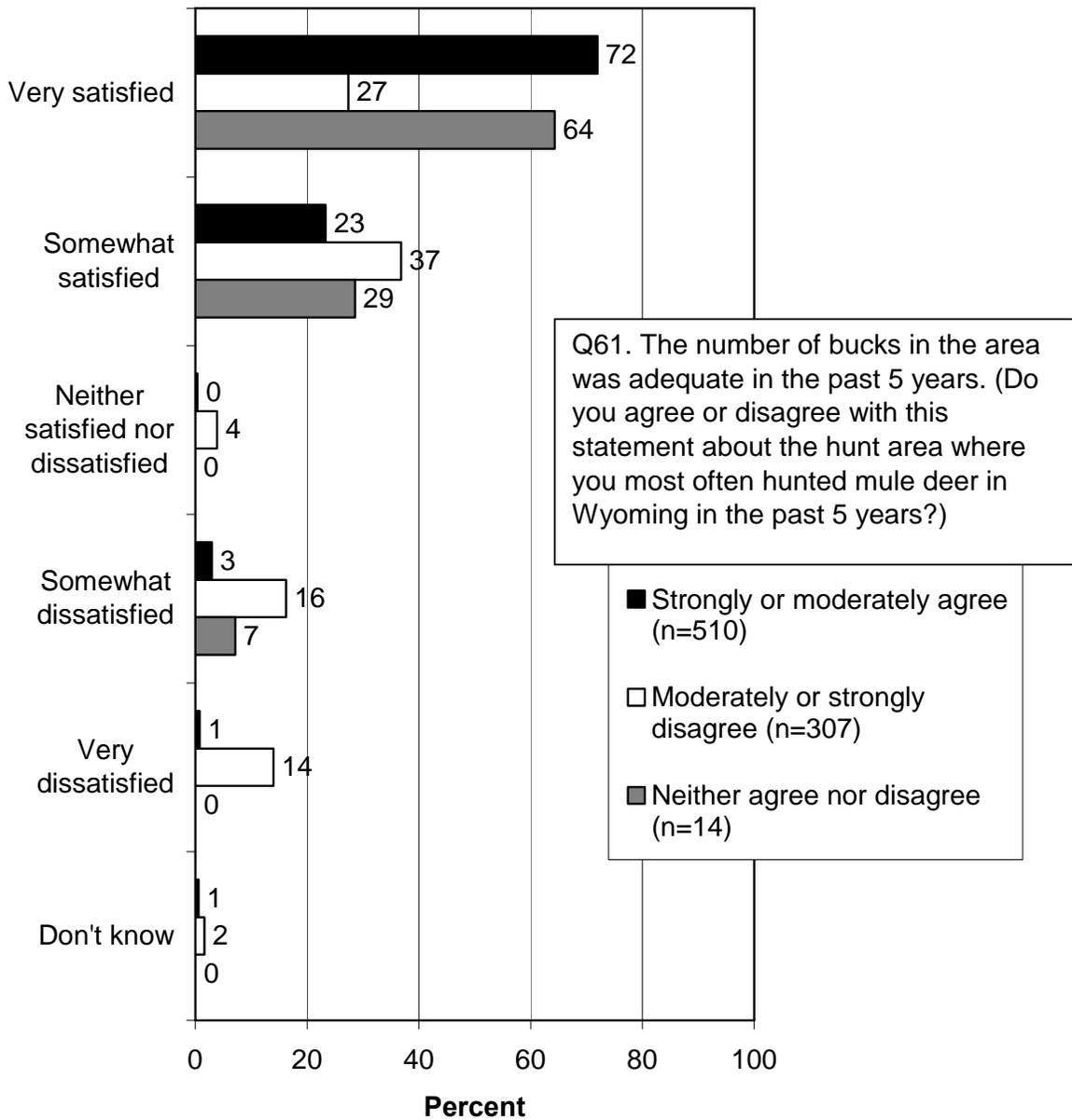
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Residents)**



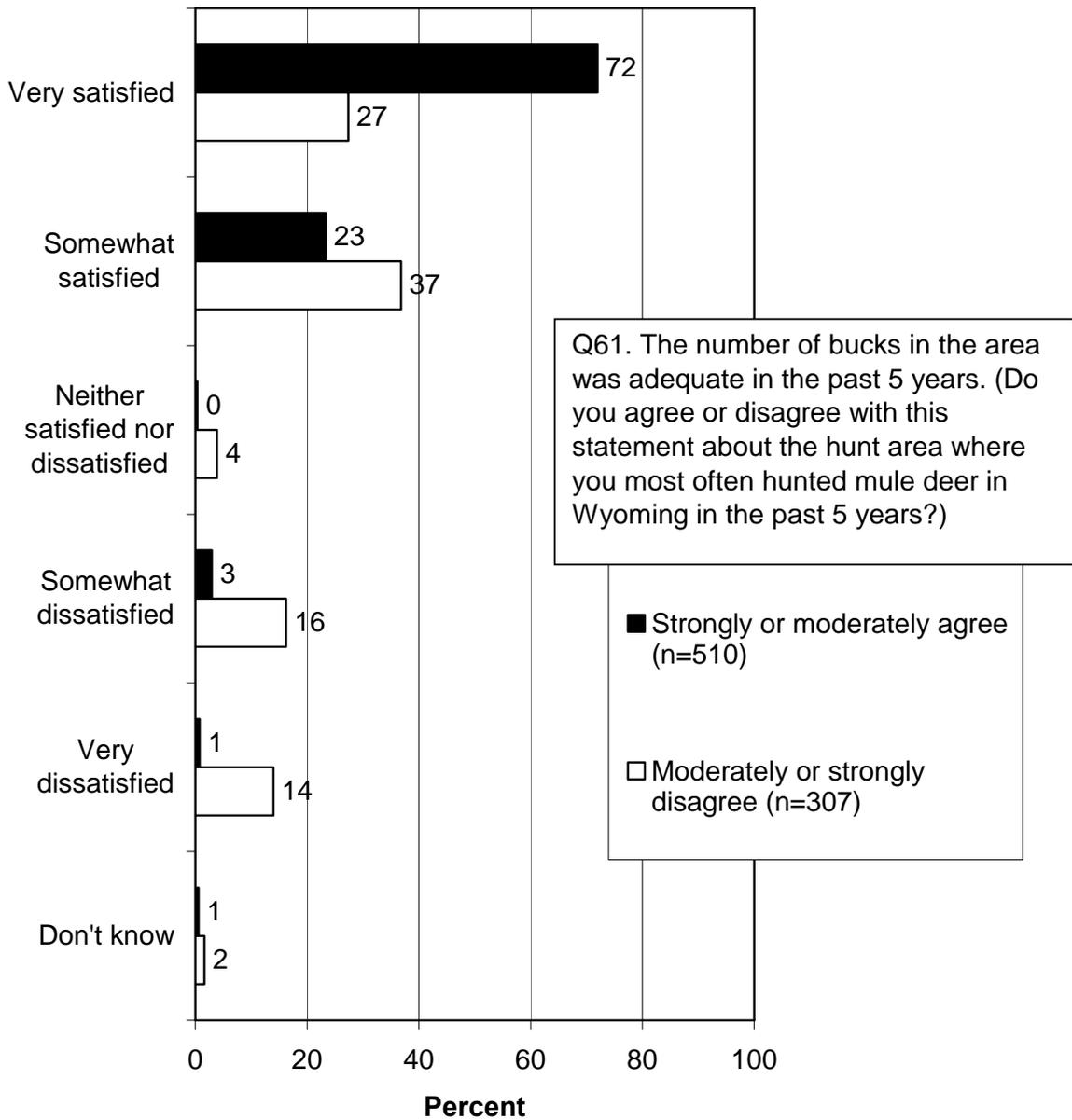
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Residents)**



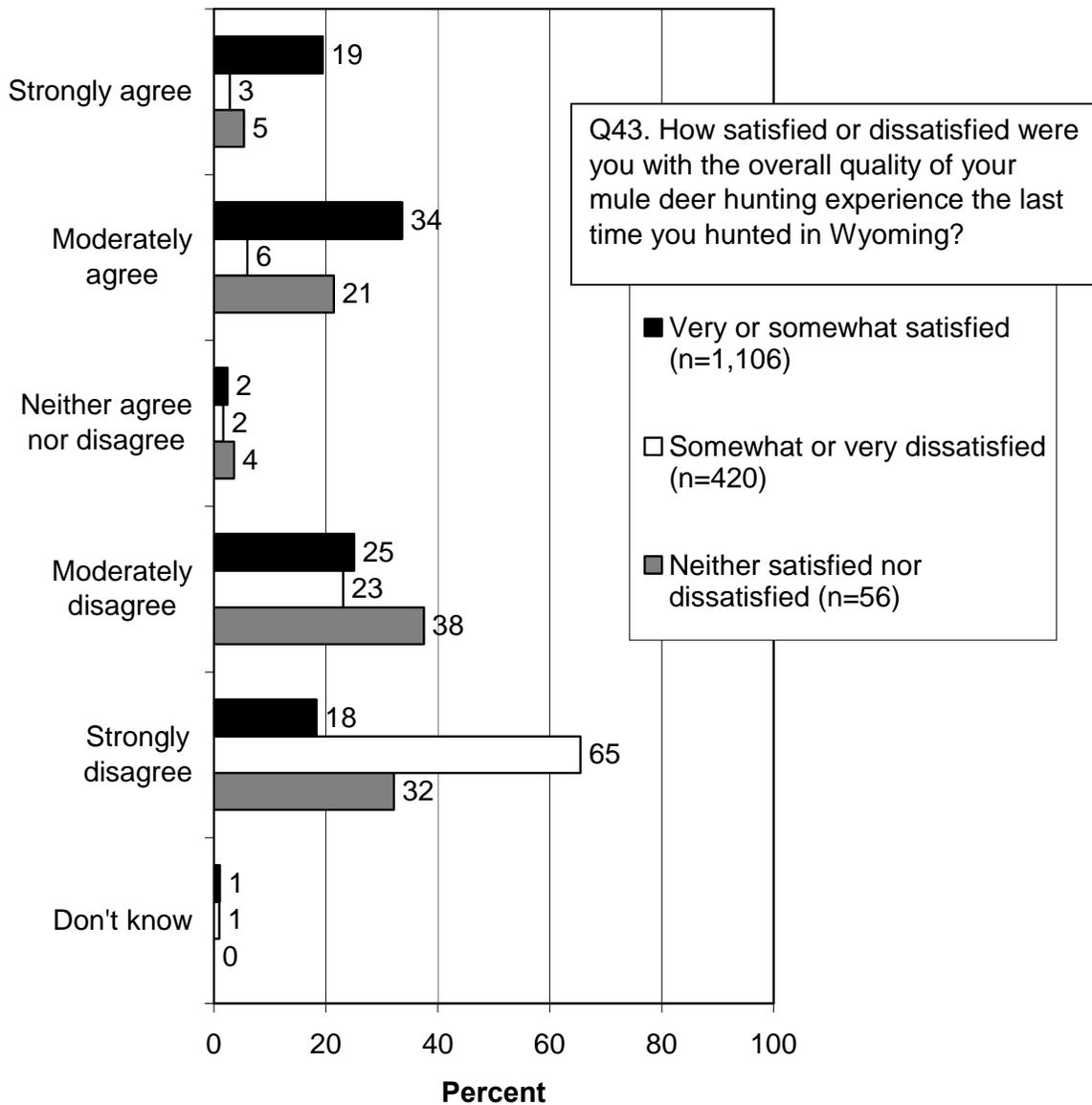
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Nonresidents)**



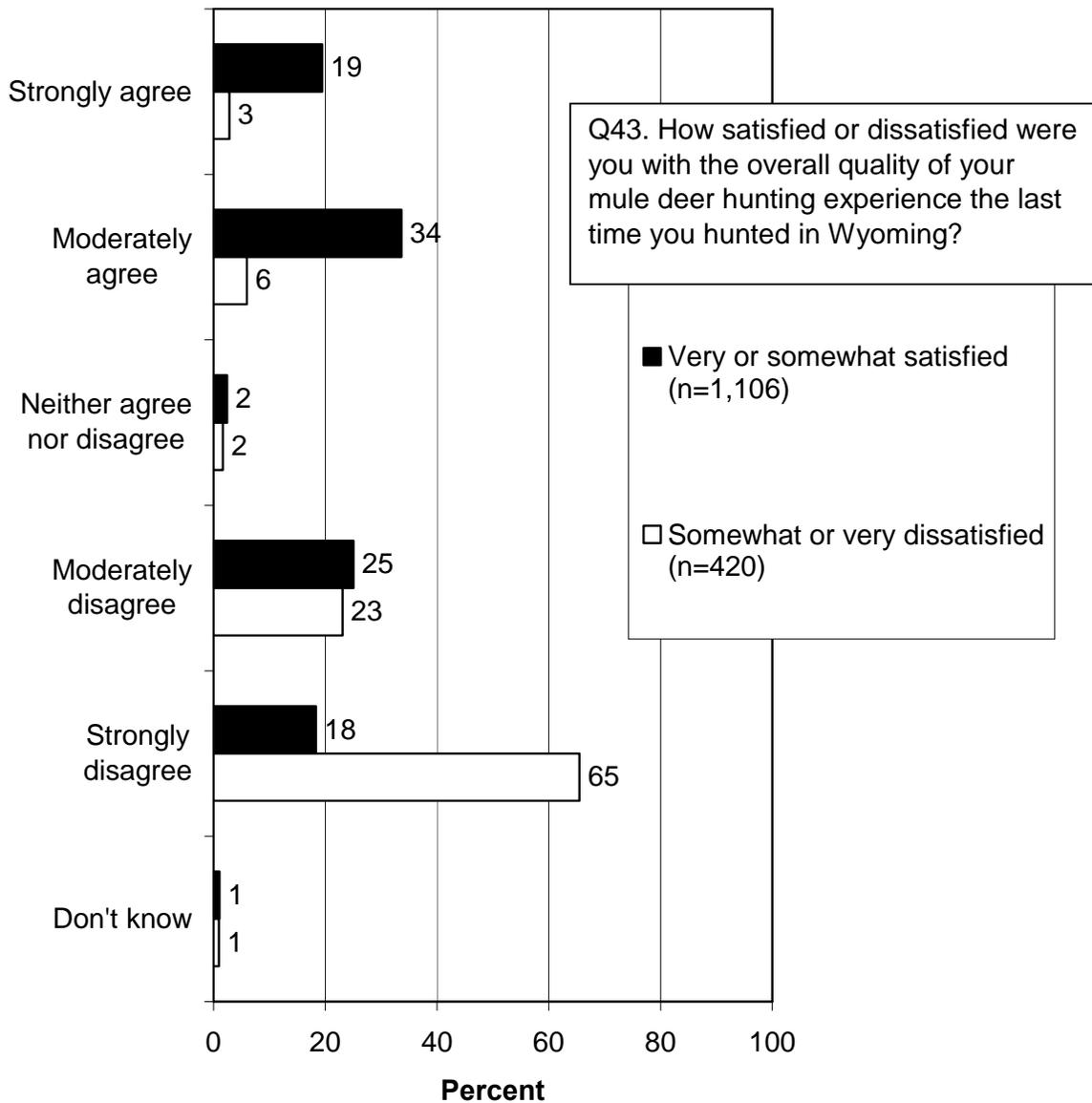
**Q43. How satisfied or dissatisfied were you with the overall quality of your mule deer hunting experience the last time you hunted in Wyoming? (Nonresidents)**



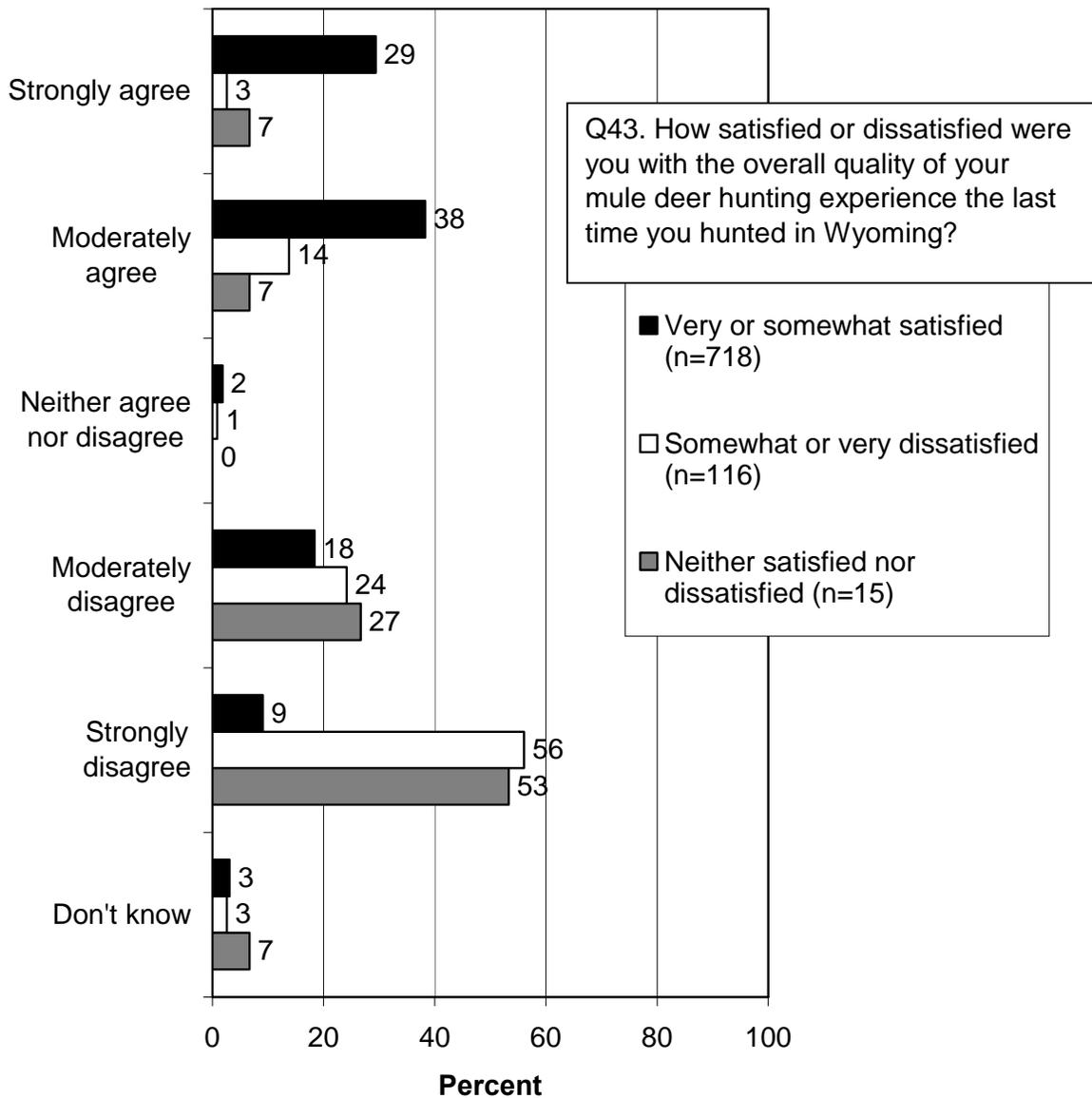
**Q61. The number of bucks in the area was adequate in the past 5 years. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)  
(Residents)**



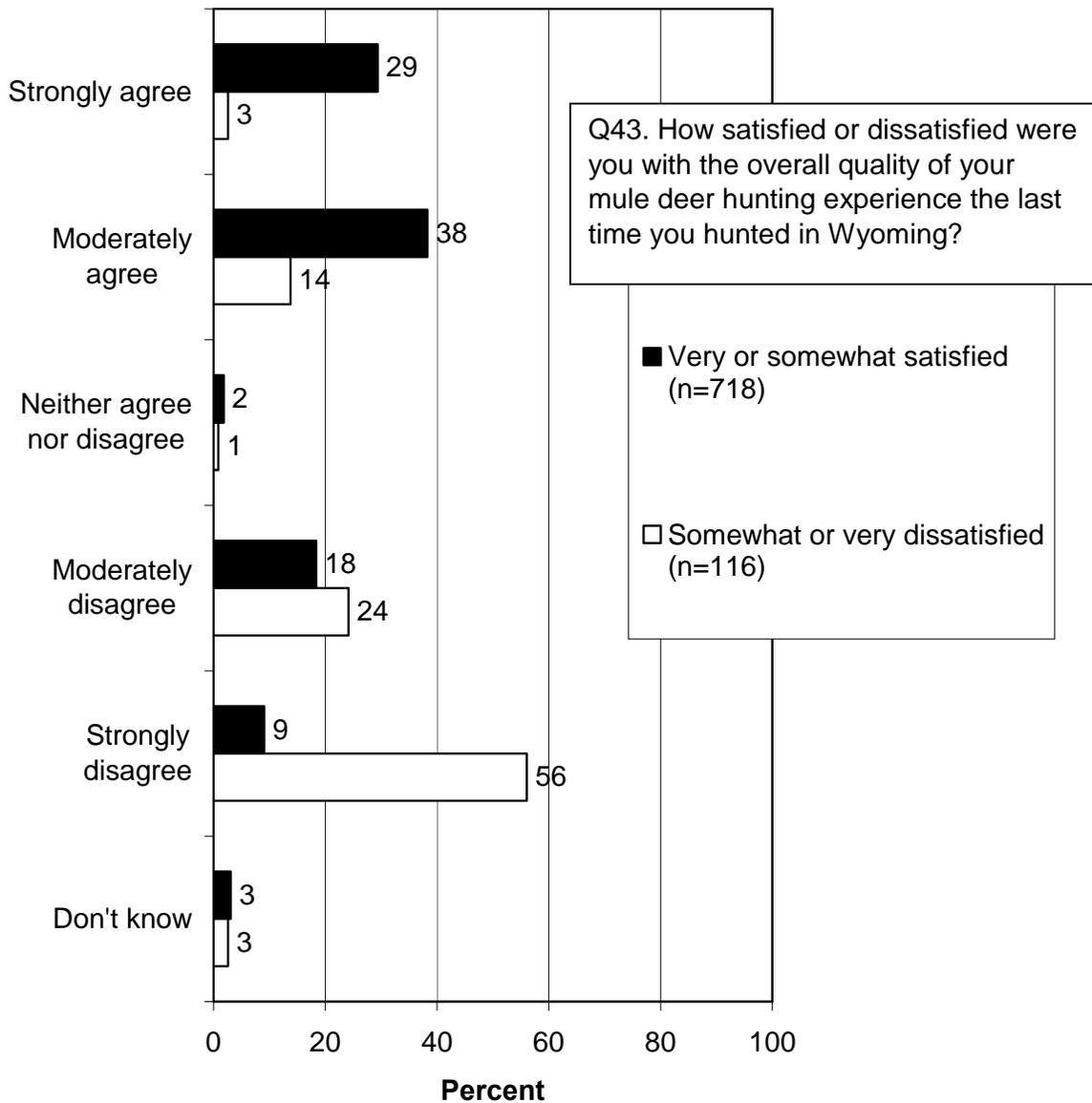
**Q61. The number of bucks in the area was adequate in the past 5 years. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)  
(Residents)**



**Q61. The number of bucks in the area was adequate in the past 5 years. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?)  
(Nonresidents)**

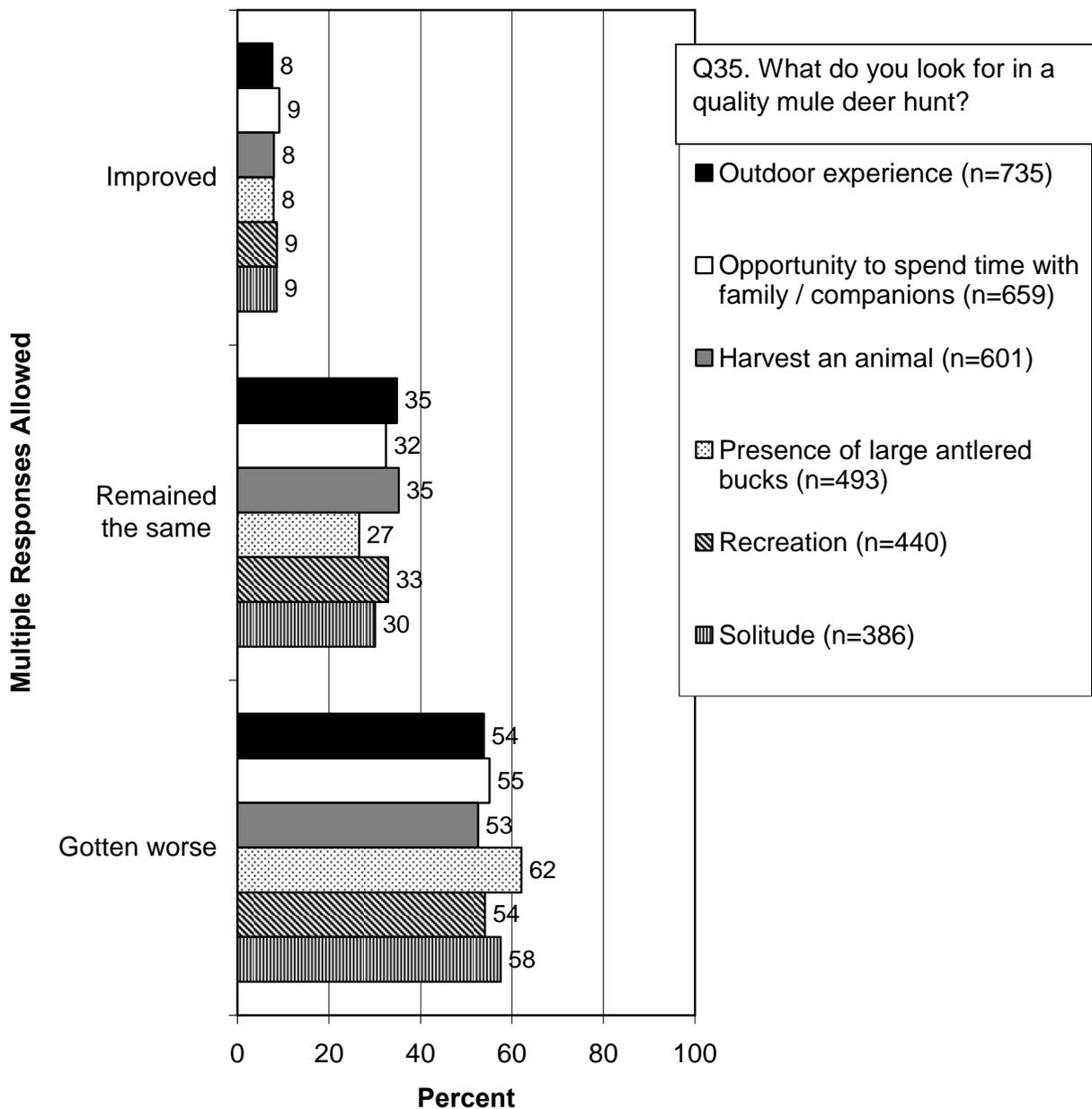


**Q61. The number of bucks in the area was adequate in the past 5 years. (Do you agree or disagree with this statement about the hunt area where you most often hunted mule deer in Wyoming in the past 5 years?) (Nonresidents)**

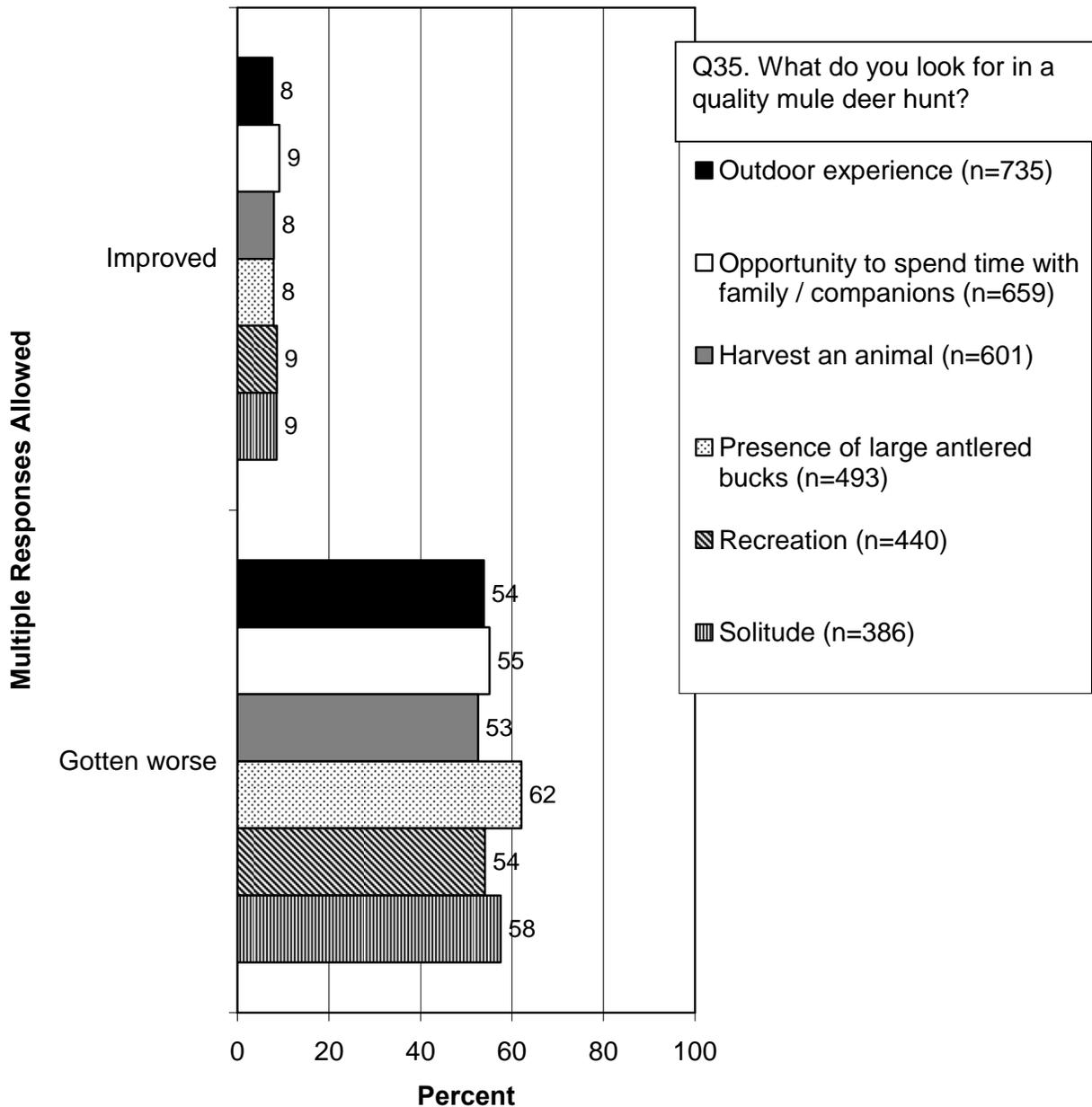


Q 42 X Q 35: Quality of Hunt X What Is Looked for in a Quality Hunt (8 graphs)

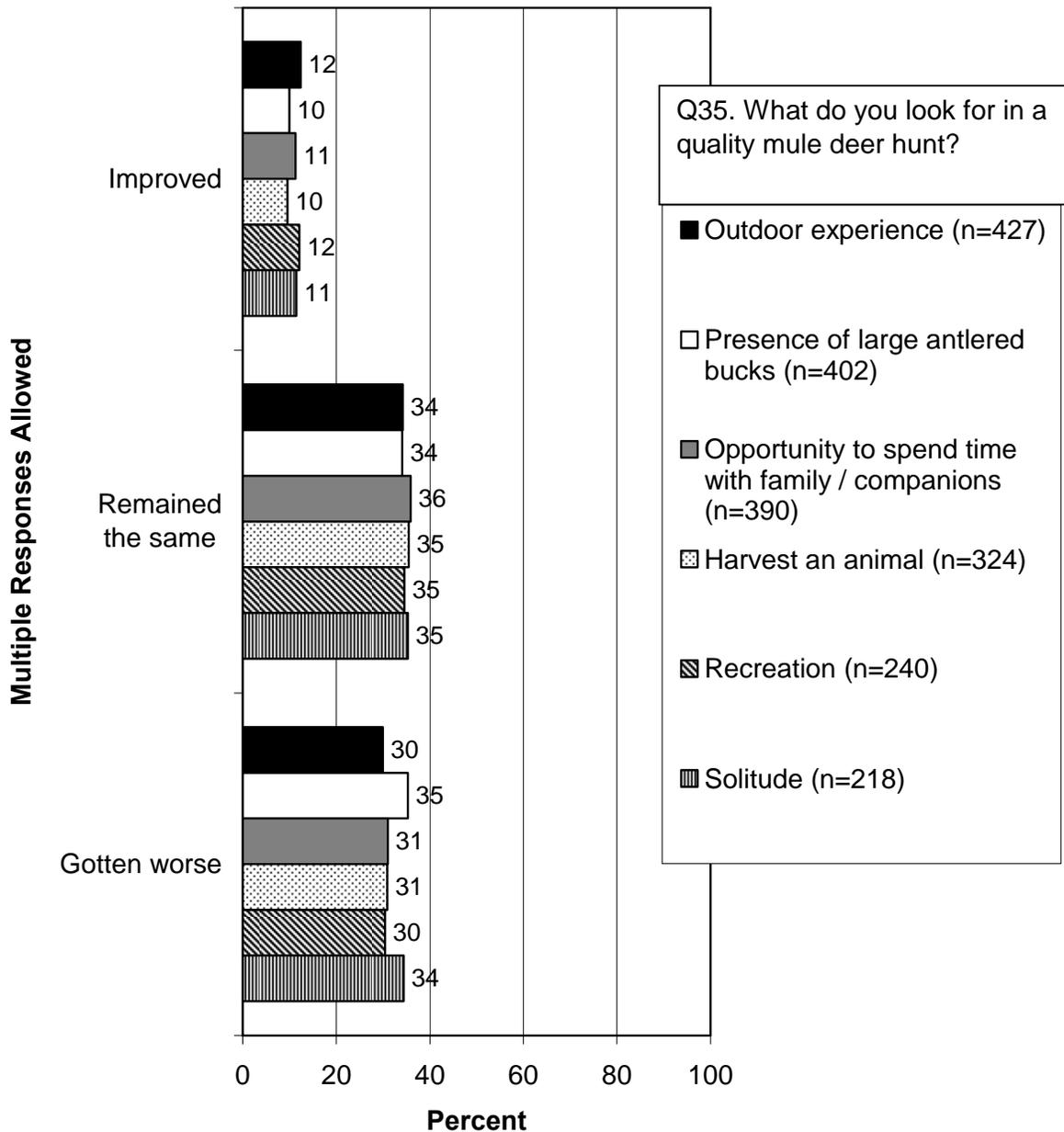
**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Residents)**



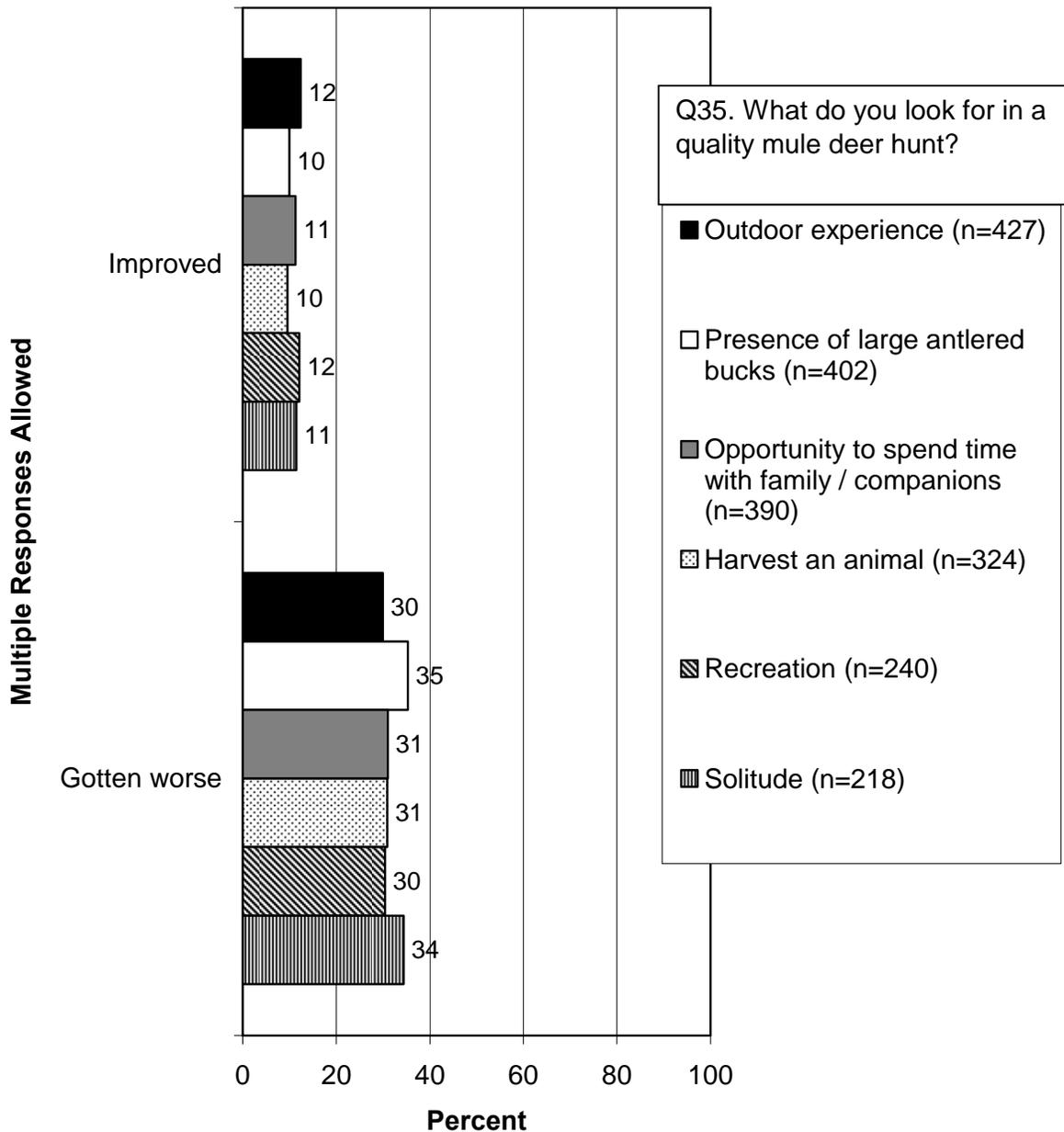
**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Residents)**



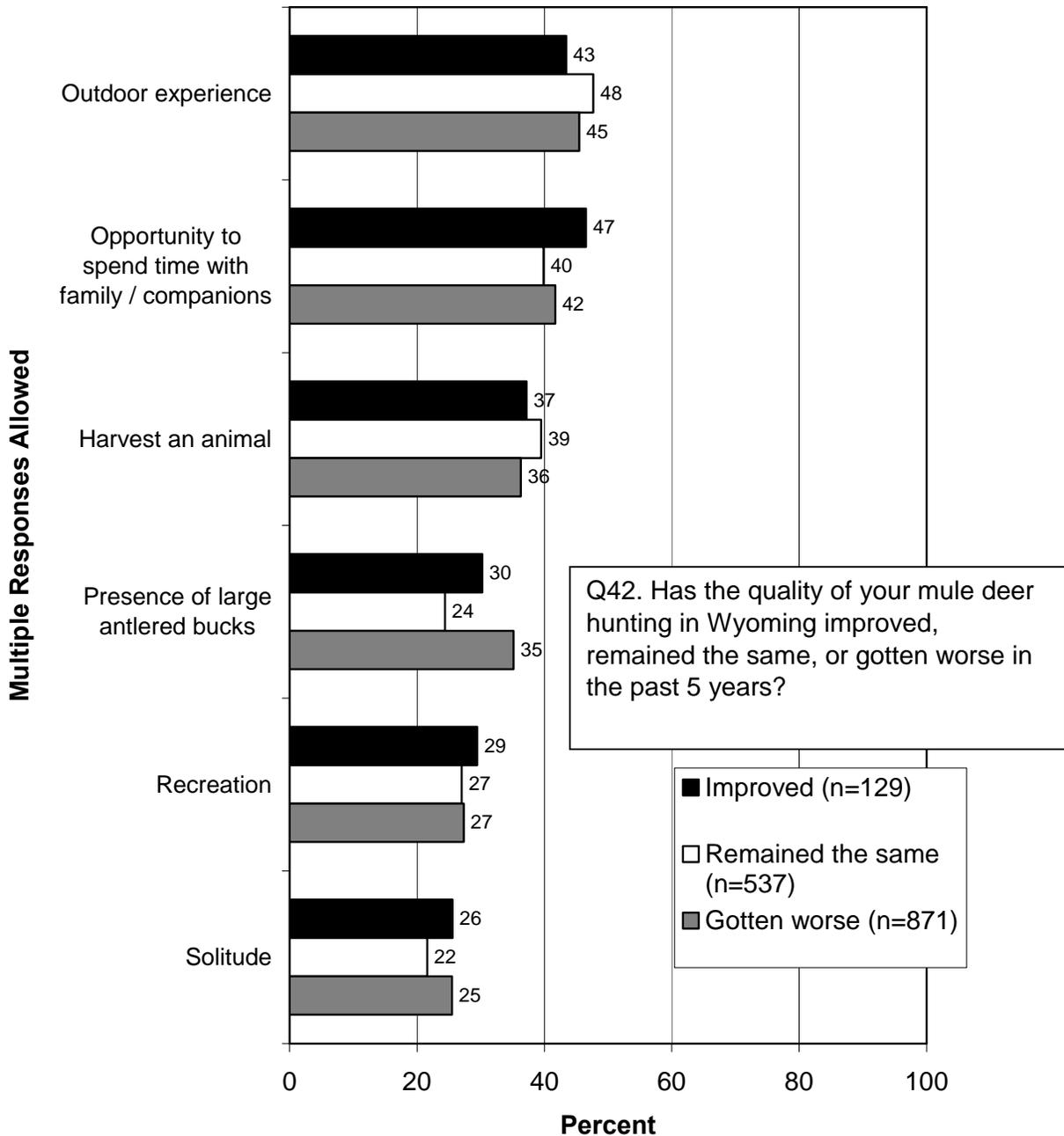
**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Nonresidents)**



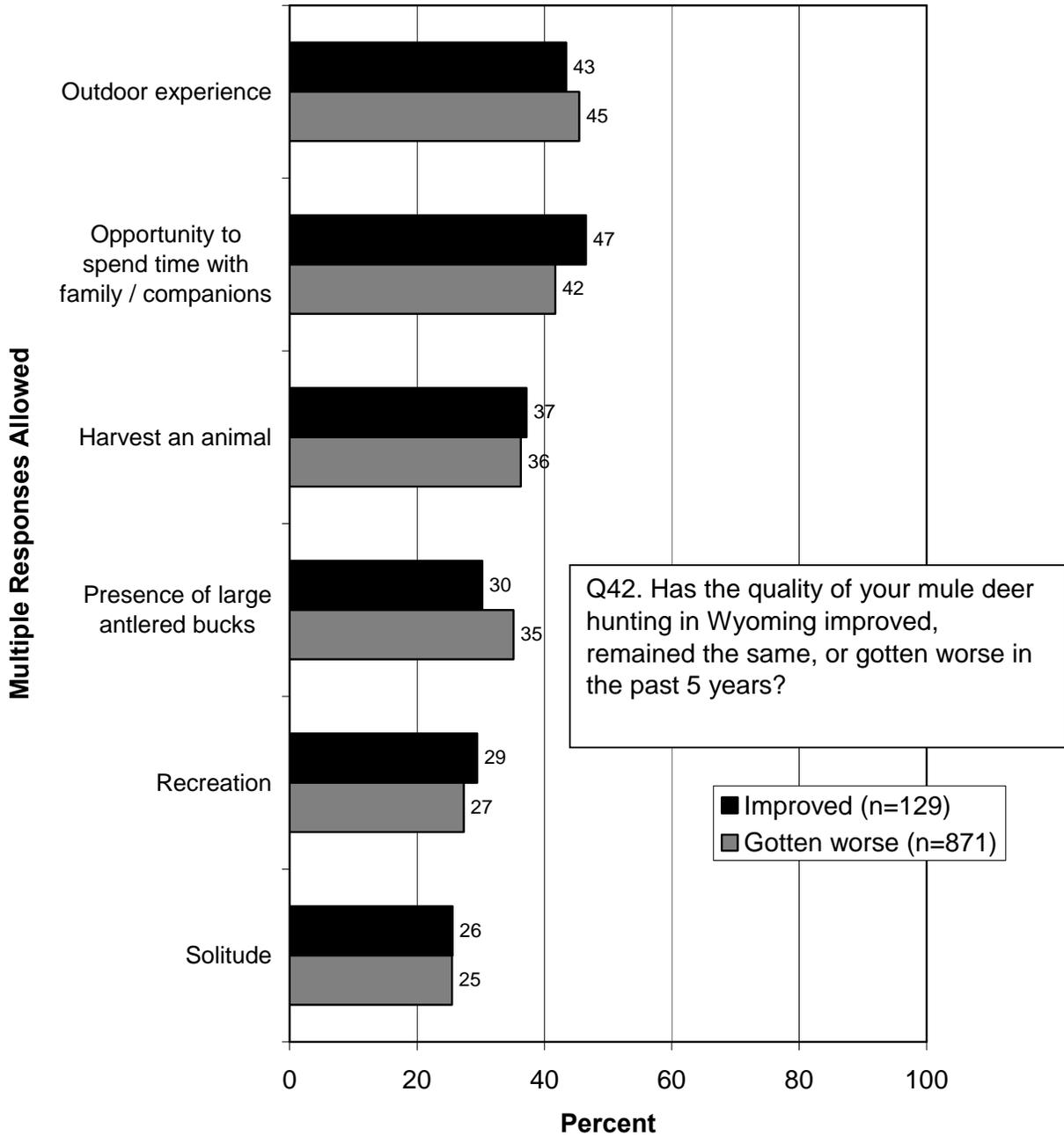
**Q42. Has the quality of your mule deer hunting in Wyoming improved, remained the same, or gotten worse in the past 5 years?  
(Nonresidents)**



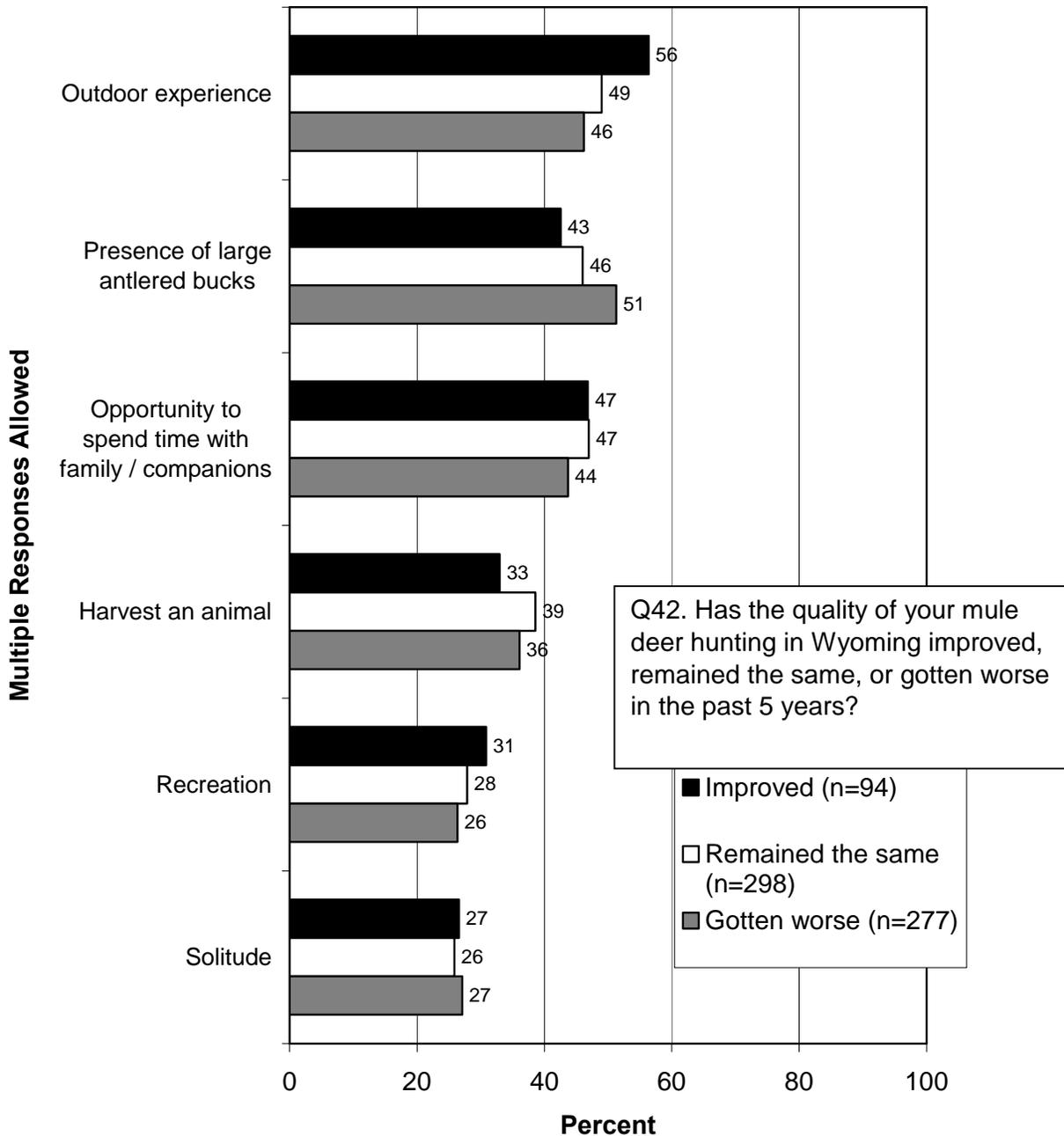
### Q35. What do you look for in a quality mule deer hunt? (Residents)



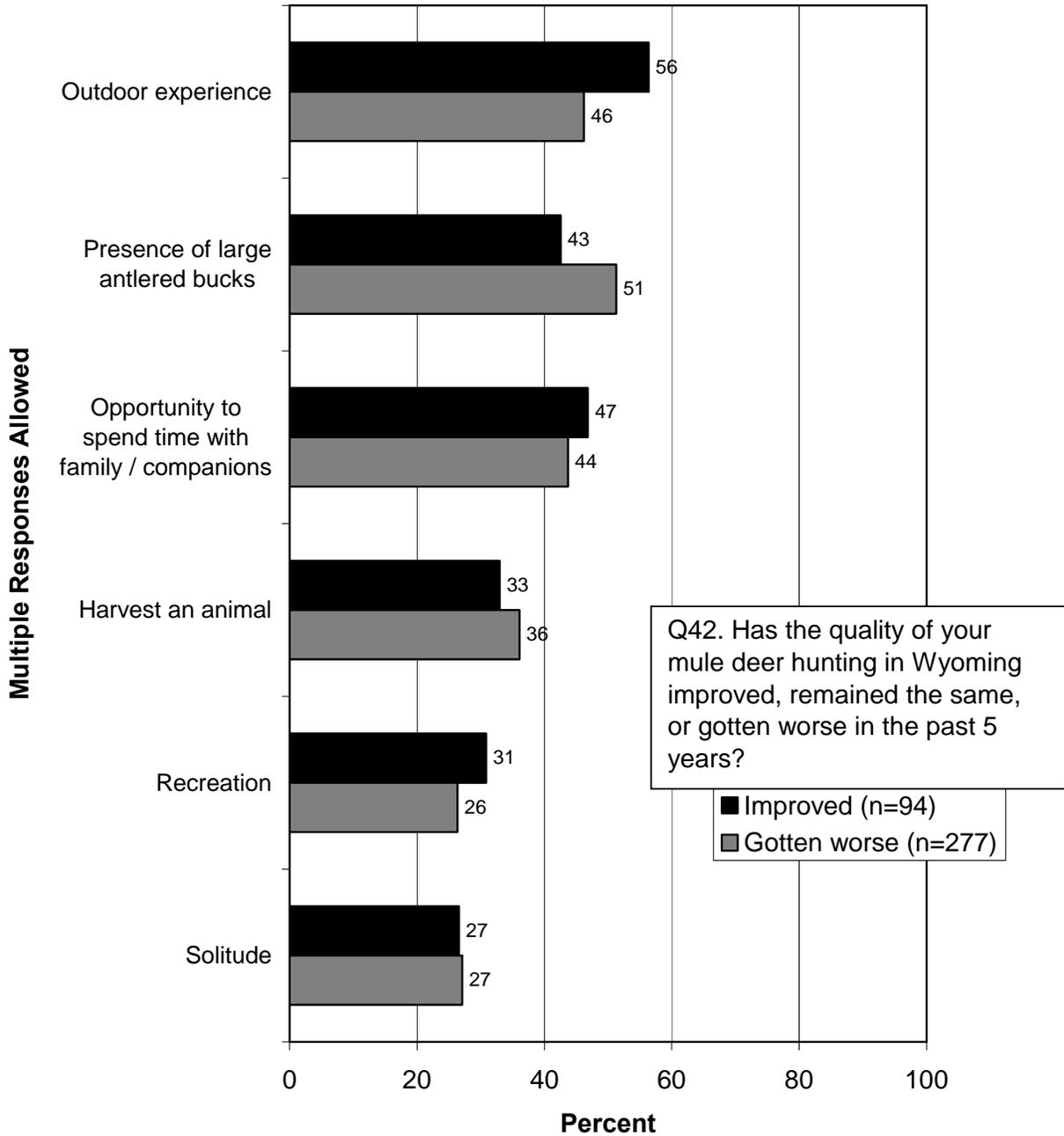
**Q35. What do you look for in a quality mule deer hunt?  
(Residents)**



### Q35. What do you look for in a quality mule deer hunt? (Nonresidents)

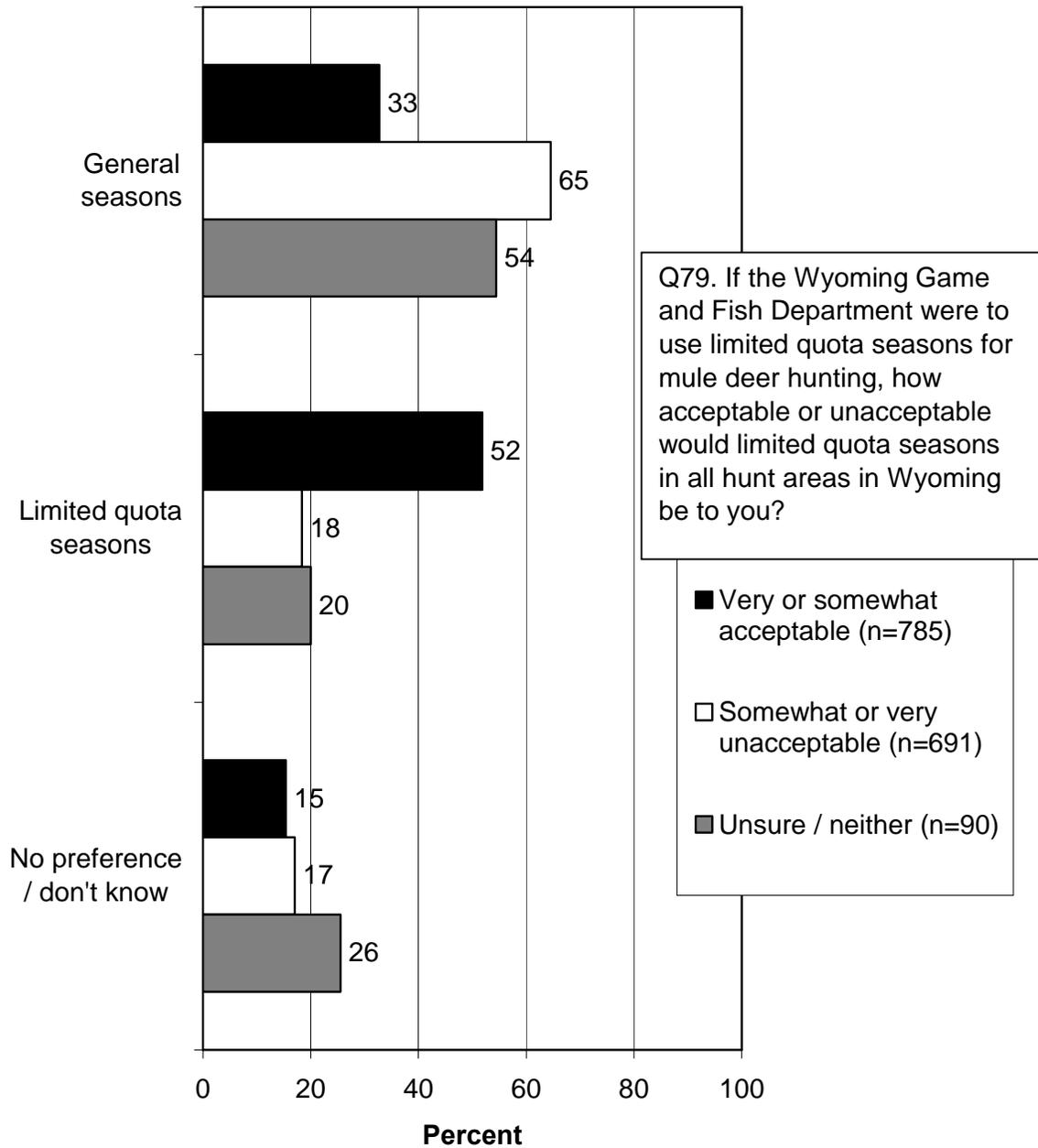


**Q35. What do you look for in a quality mule deer hunt?  
(Nonresidents)**

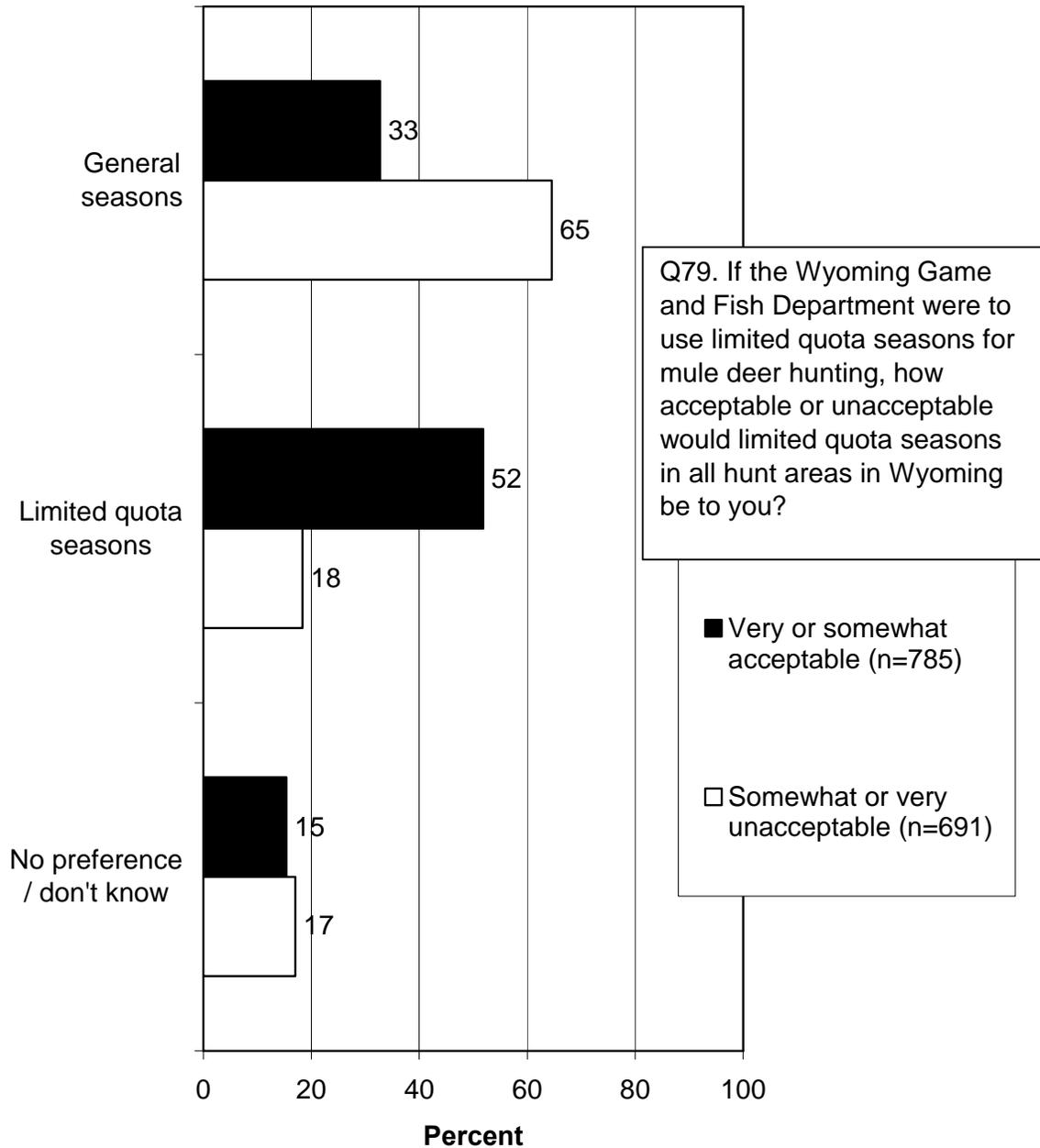


Q 76 X Q 79: Preference on Type of Season X Opinion on Statewide Limited Quota (8 graphs)

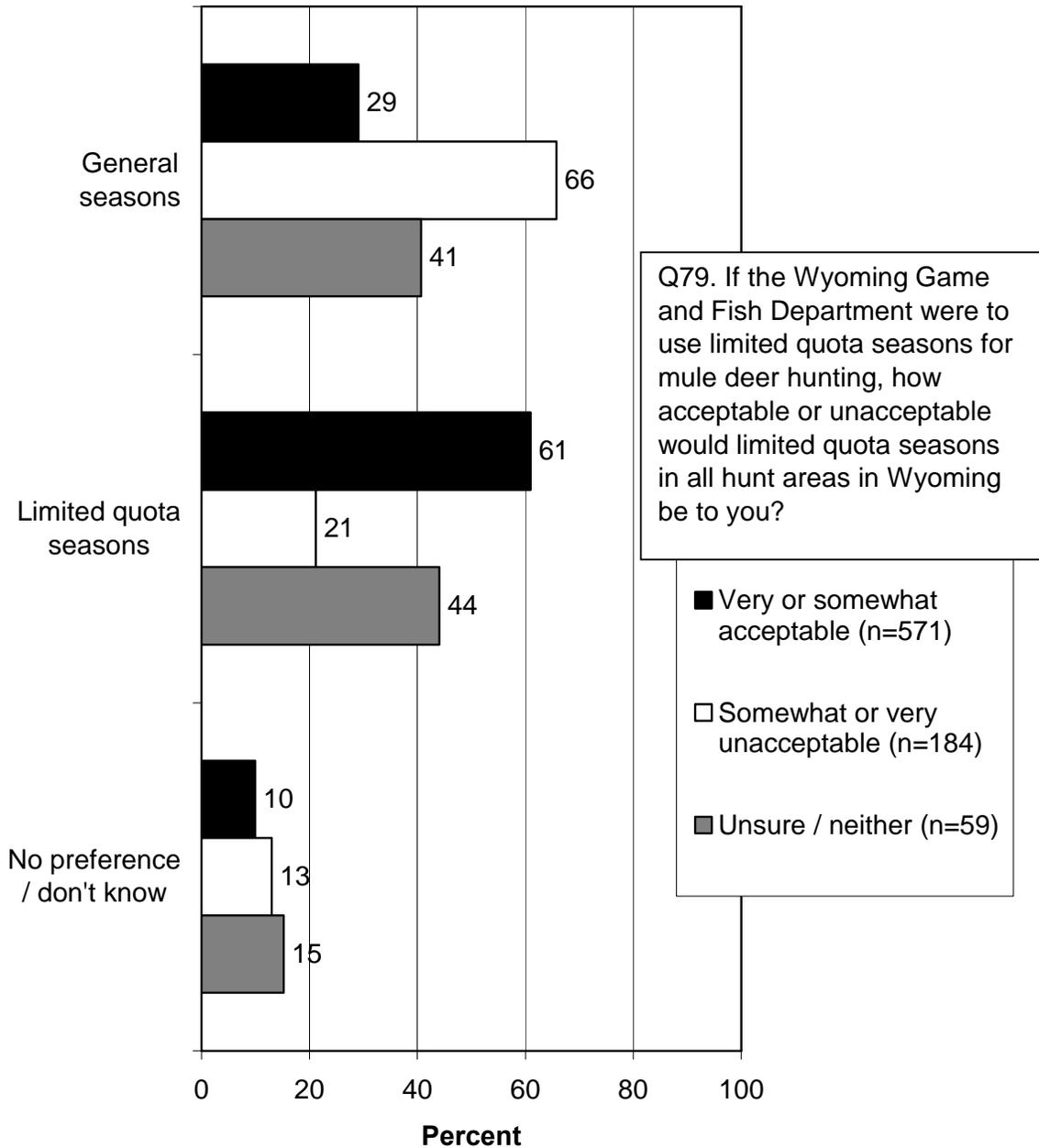
**Q76. Do you prefer general seasons or limited quota seasons?  
(Residents)**



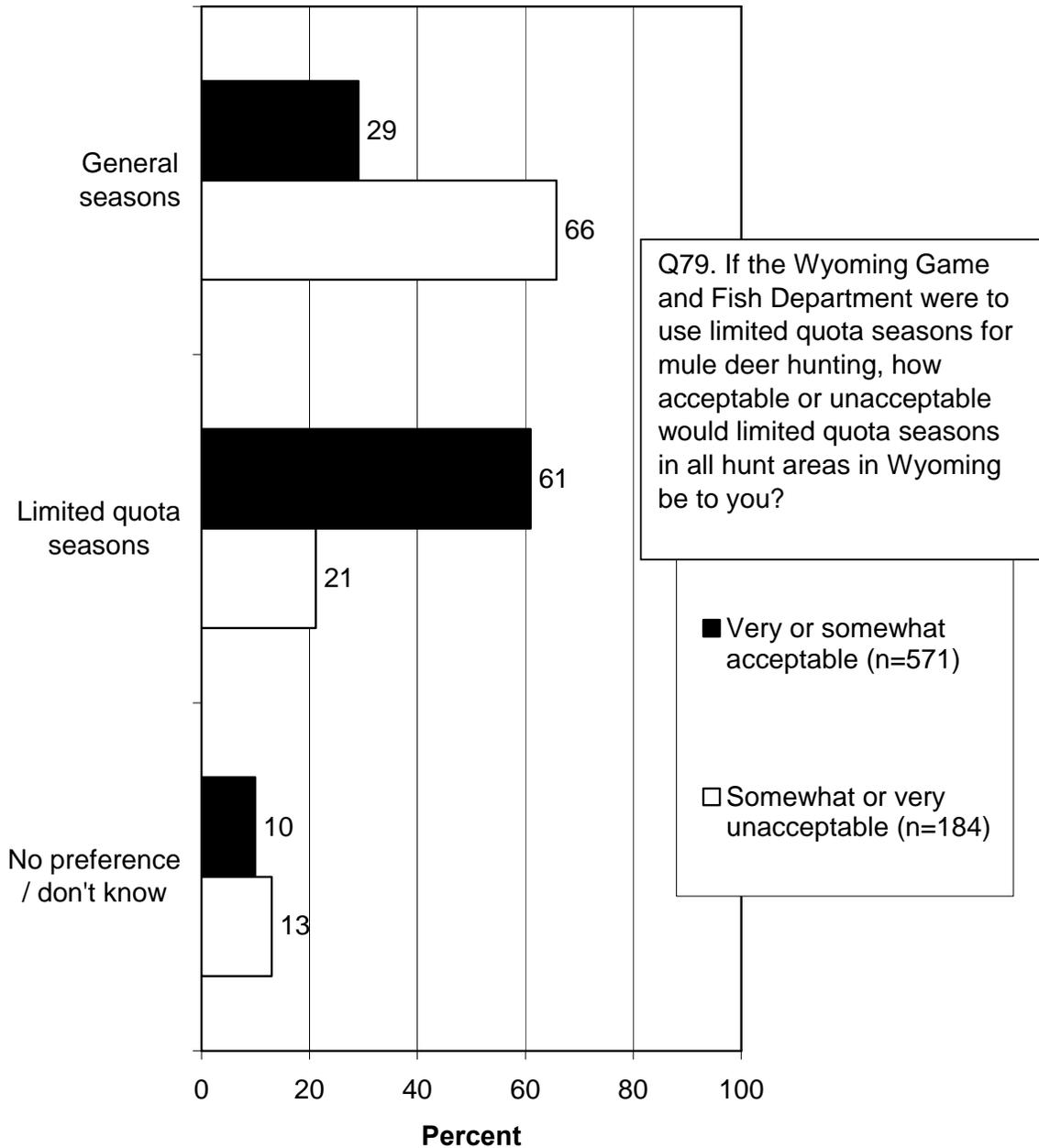
**Q76. Do you prefer general seasons or limited quota seasons?  
(Residents)**



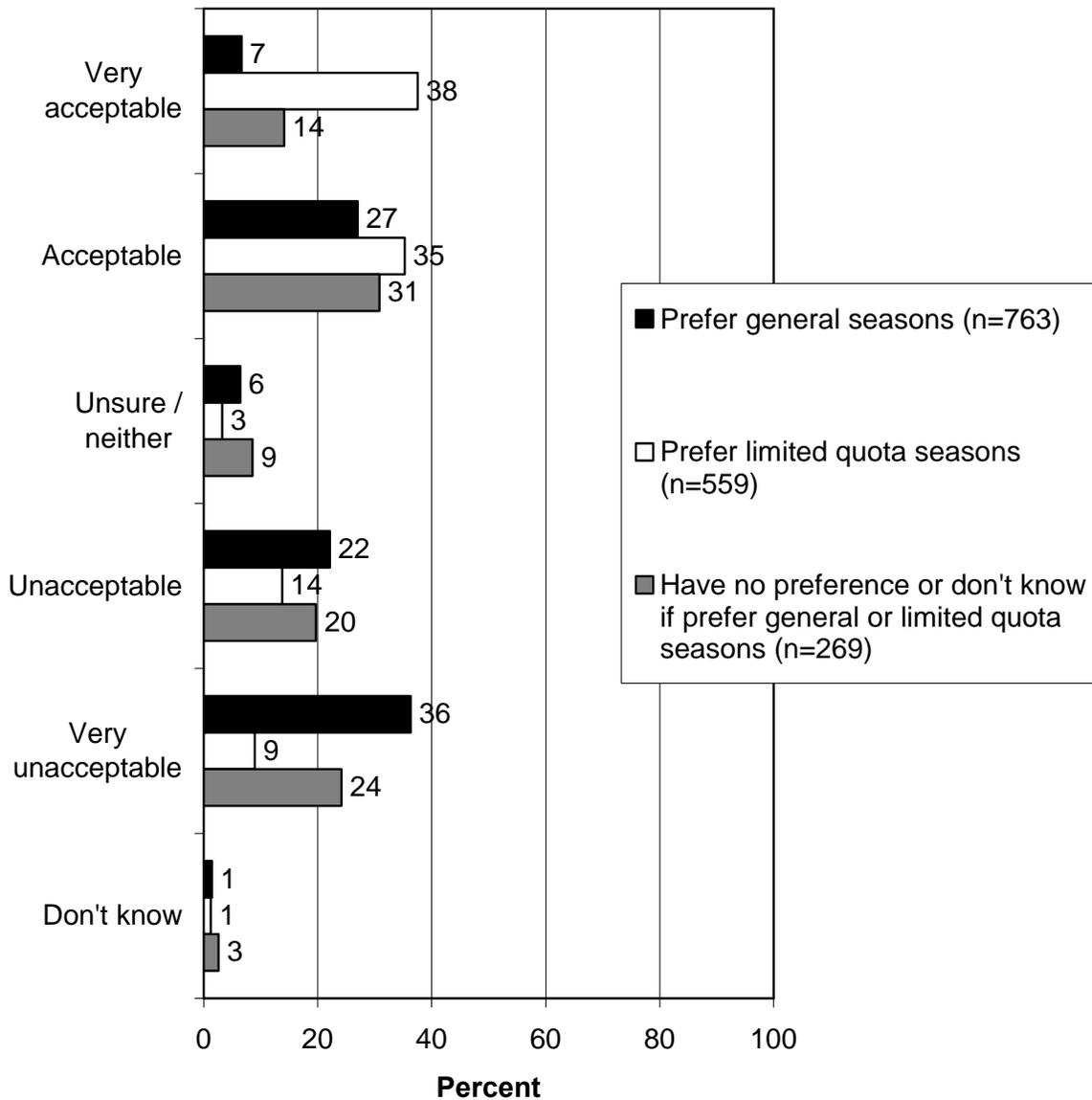
**Q76. Do you prefer general seasons or limited quota seasons?  
(Nonresidents)**



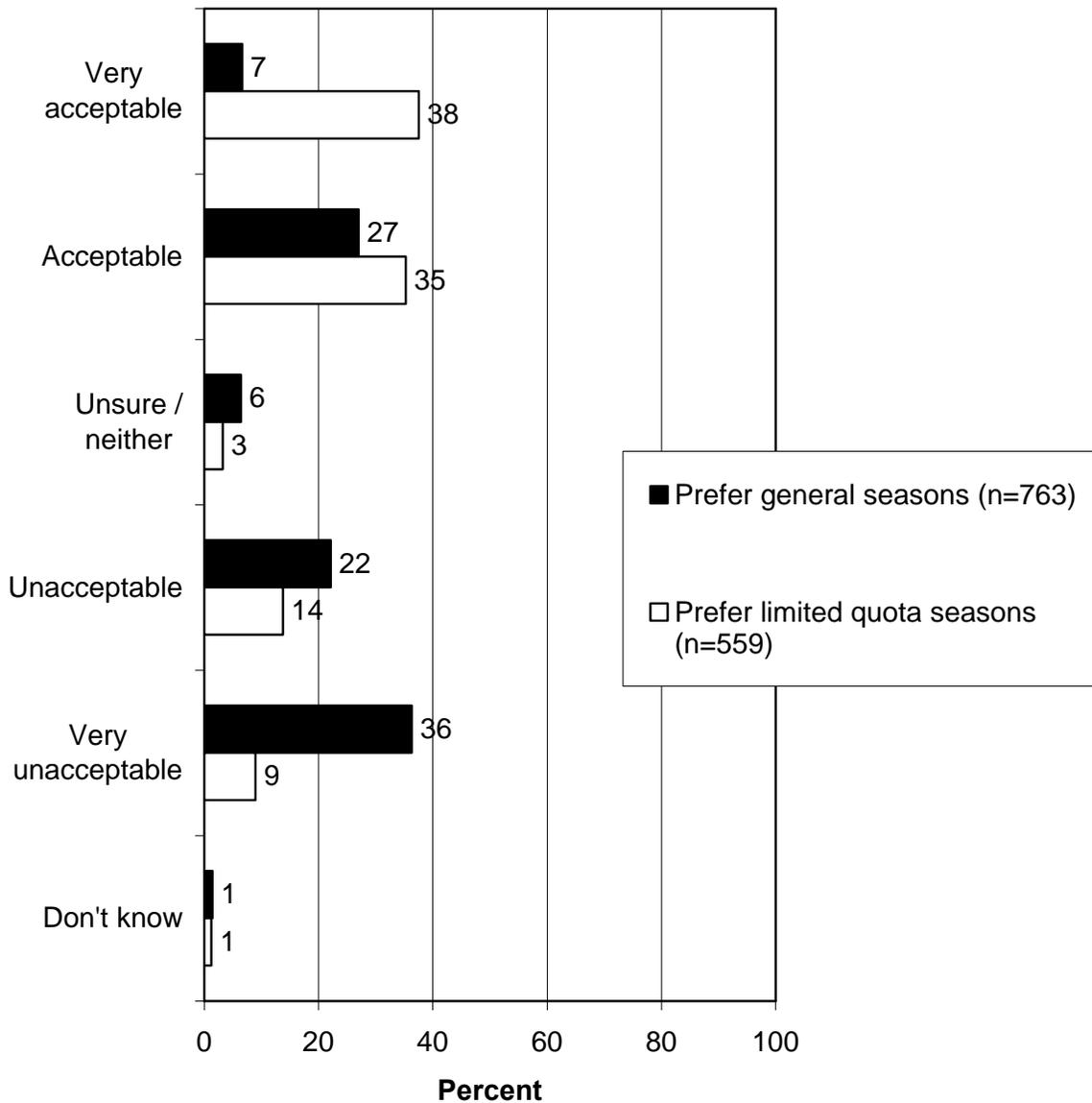
### Q76. Do you prefer general seasons or limited quota seasons? (Nonresidents)



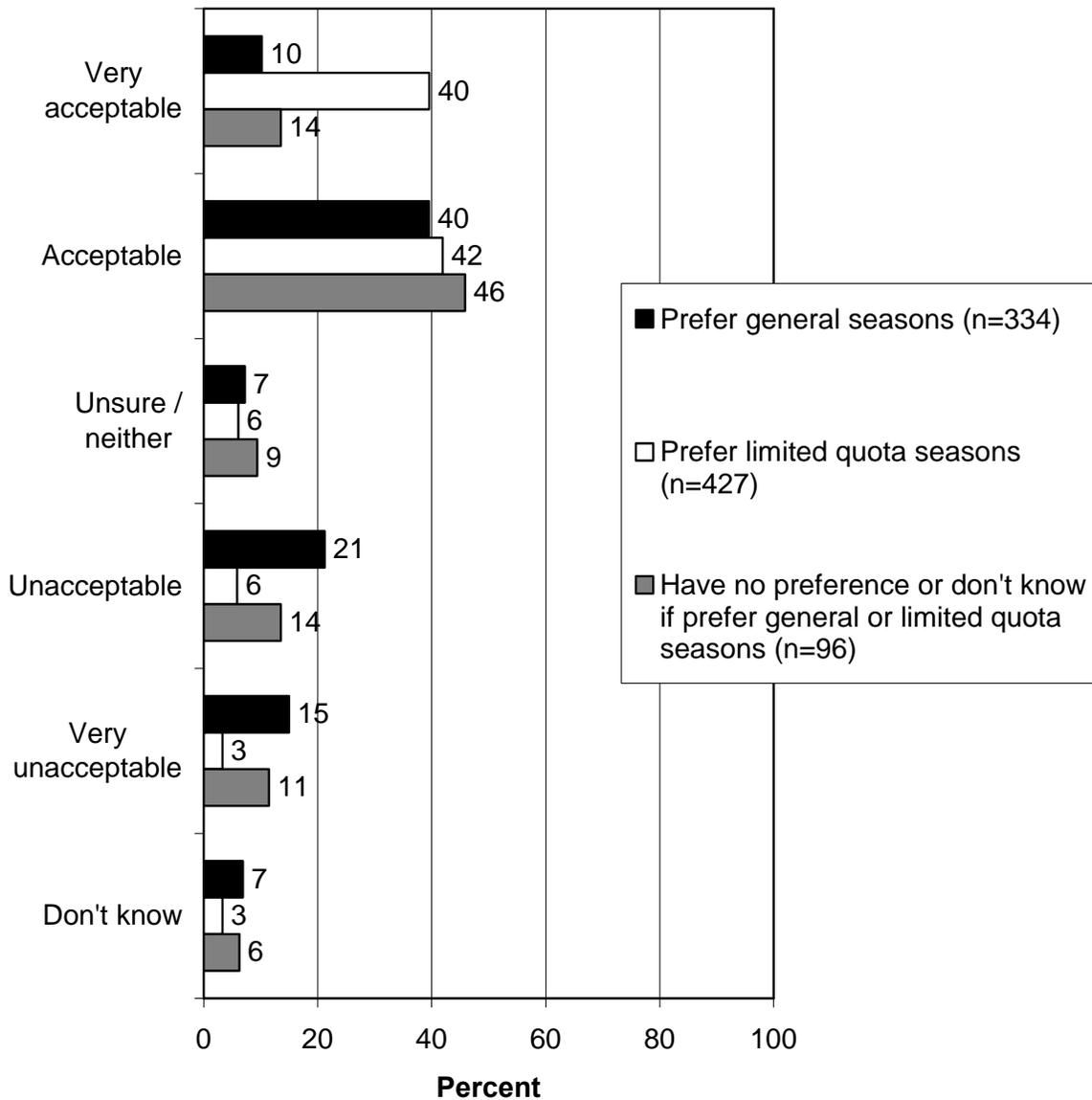
**Q79. If the Wyoming Game and Fish Department were to use limited quota seasons for mule deer hunting, how acceptable or unacceptable would limited quota seasons in all hunt areas in Wyoming be to you?  
(Residents)**



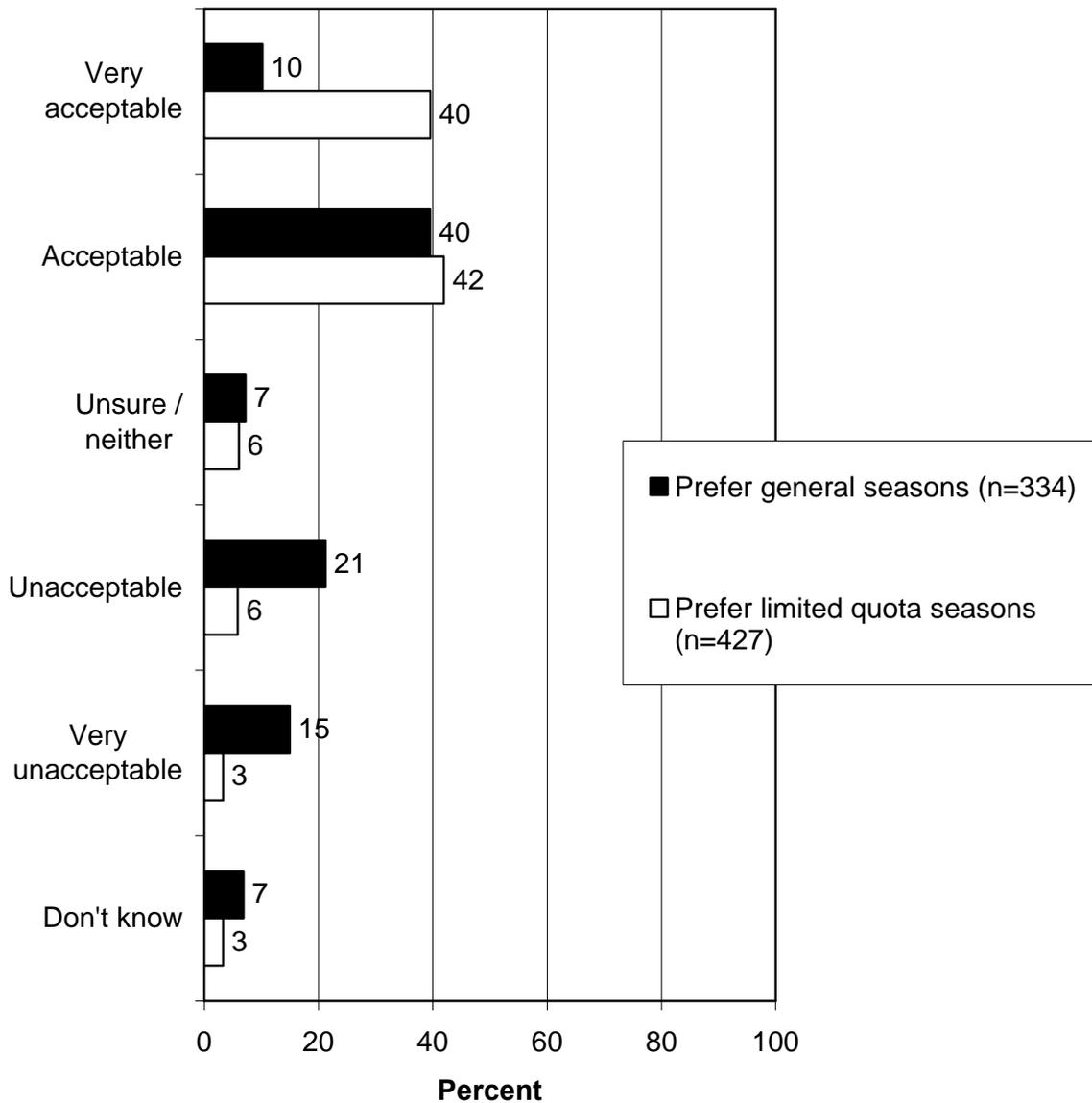
**Q79. If the Wyoming Game and Fish Department were to use limited quota seasons for mule deer hunting, how acceptable or unacceptable would limited quota seasons in all hunt areas in Wyoming be to you?  
(Residents)**



**Q79. If the Wyoming Game and Fish Department were to use limited quota seasons for mule deer hunting, how acceptable or unacceptable would limited quota seasons in all hunt areas in Wyoming be to you?  
(Nonresidents)**

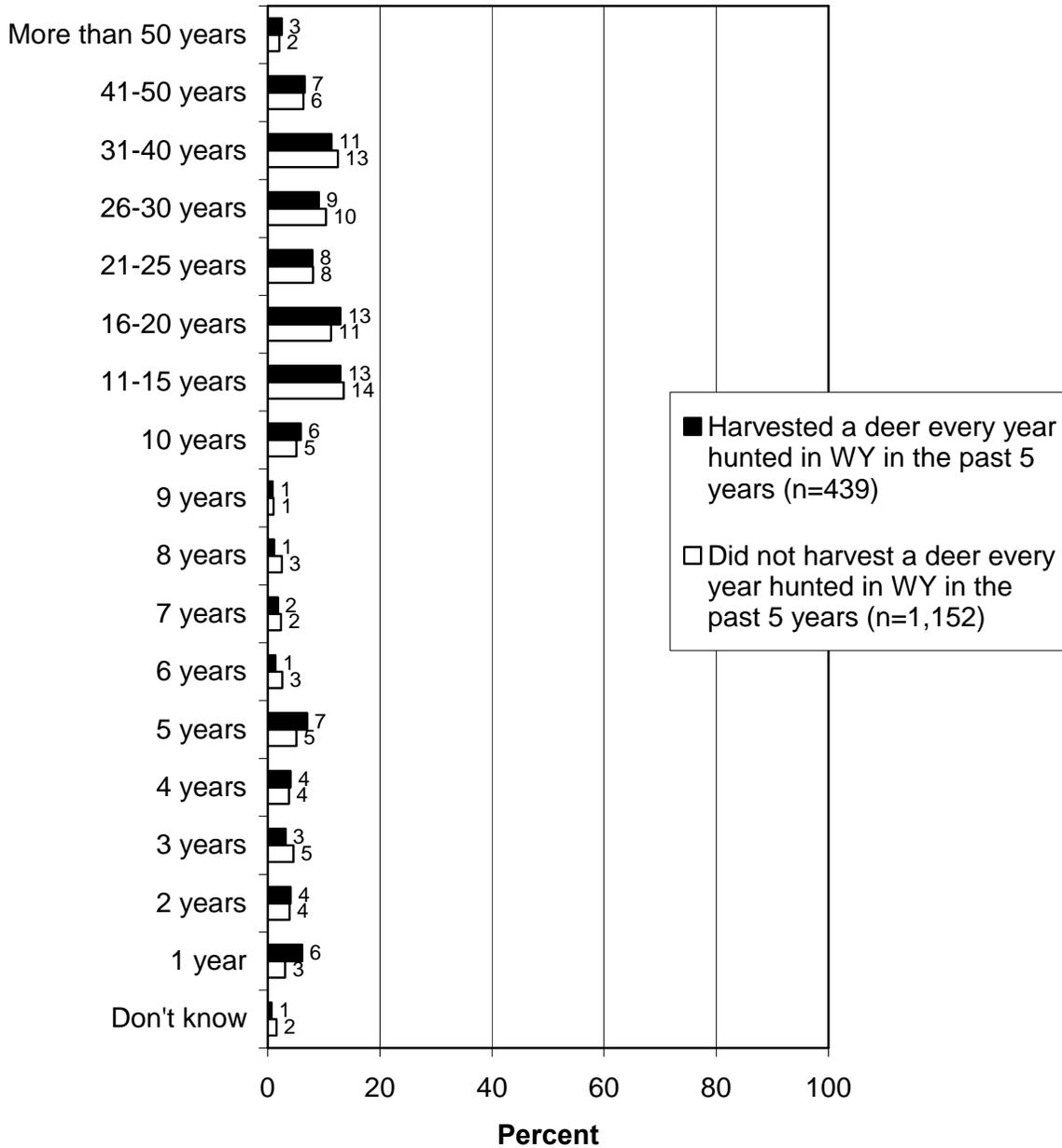


**Q79. If the Wyoming Game and Fish Department were to use limited quota seasons for mule deer hunting, how acceptable or unacceptable would limited quota seasons in all hunt areas in Wyoming be to you?  
(Nonresidents)**

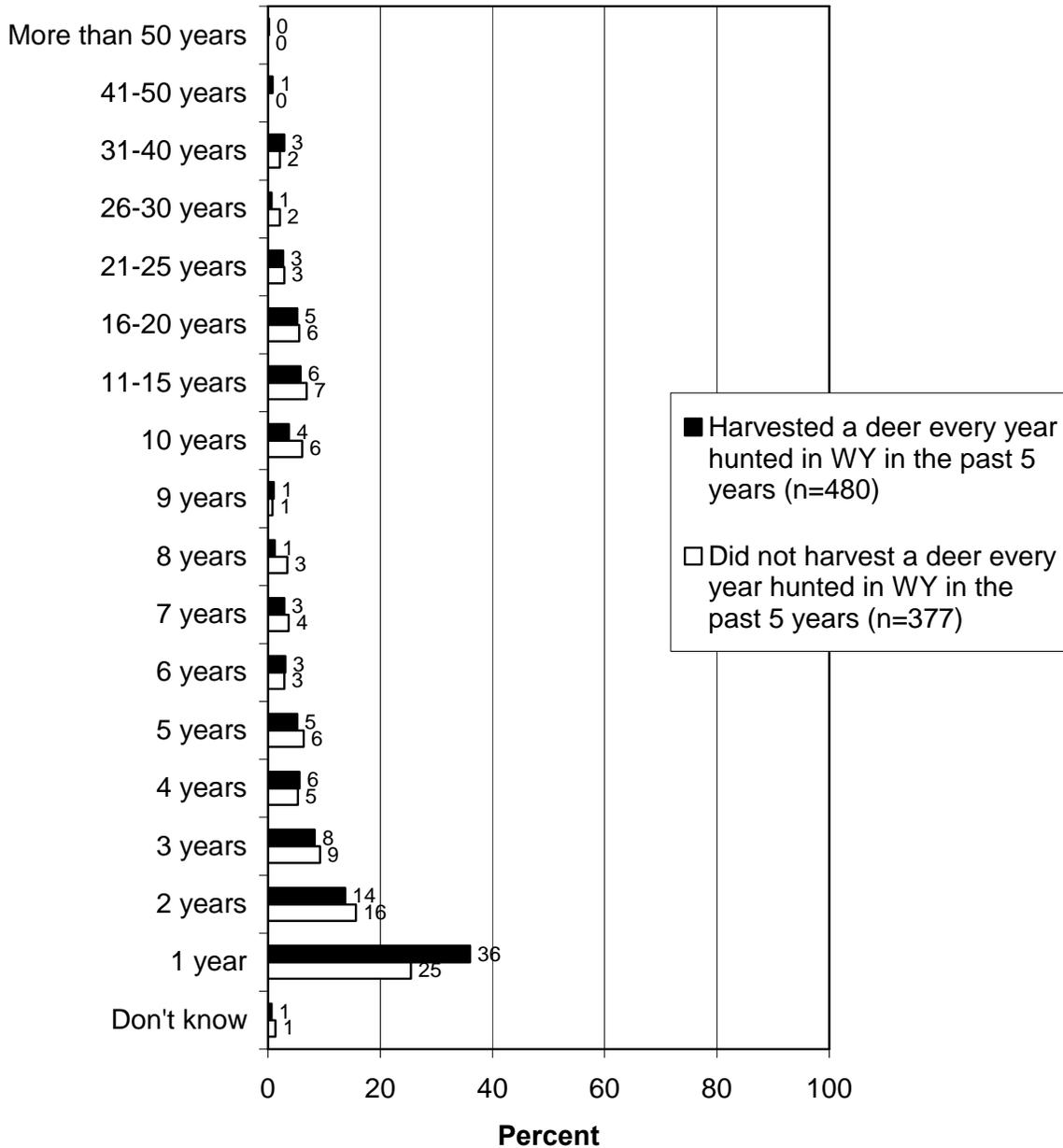


Longevity X Harvest Success (2 graphs)

**Q10. How many years total have you been hunting mule deer in Wyoming?  
(Residents)**



**Q10. How many years total have you been hunting mule deer in Wyoming? (Nonresidents)**



## **ABOUT RESPONSIVE MANAGEMENT**

Responsive Management is an internationally recognized public opinion and attitude survey research firm specializing in natural resource and outdoor recreation issues. Our mission is to help natural resource and outdoor recreation agencies and organizations better understand and work with their constituents, customers, and the public.

Utilizing our in-house, full-service telephone, mail, and web-based survey center with 50 professional interviewers, we have conducted more than 1,000 telephone surveys, mail surveys, personal interviews, and focus groups, as well as numerous marketing and communication plans, needs assessments, and program evaluations.

Clients include the federal natural resource and land management agencies, most state fish and wildlife agencies, state departments of natural resources, environmental protection agencies, state park agencies, tourism boards, most of the major conservation and sportsmen's organizations, and numerous private businesses. Responsive Management also collects attitude and opinion data for many of the nation's top universities.

Specializing in research on public attitudes toward natural resource and outdoor recreation issues, Responsive Management has completed a wide range of projects during the past 22 years, including dozens of studies of hunters, anglers, wildlife viewers, boaters, park visitors, historic site visitors, hikers, birdwatchers, campers, and rock climbers. Responsive Management has conducted studies on endangered species; waterfowl and wetlands; and the reintroduction of large predators such as wolves, grizzly bears, and the Florida panther.

Responsive Management has assisted with research on numerous natural resource ballot initiatives and referenda and has helped agencies and organizations find alternative funding and increase their membership and donations. Additionally, Responsive Management has conducted major organizational and programmatic needs assessments to assist natural resource agencies and organizations in developing more effective programs based on a solid foundation of fact.

Responsive Management has conducted research on public attitudes toward natural resources and outdoor recreation in almost every state in the United States, as well as in Canada, Australia, the United Kingdom, France, Germany, and Japan. Responsive Management has also conducted focus groups and personal interviews with residents of the African countries of Algeria, Cameroon, Mauritius, Namibia, South Africa, Tanzania, Zambia, and Zimbabwe.

Responsive Management routinely conducts surveys in Spanish and has conducted surveys in Chinese, Korean, Japanese and Vietnamese and has completed numerous studies with specific target audiences, including Hispanics, African-Americans, Asians, women, children, senior citizens, urban, suburban and rural residents, large landowners, and farmers.

Responsive Management's research has been upheld in U.S. District Courts; used in peer-reviewed journals; and presented at major natural resource, fish and wildlife, and outdoor recreation conferences across the world. Company research has been featured in most of the nation's major media, including CNN, *The New York Times*, *The Wall Street Journal*, and on the front pages of *USA Today* and *The Washington Post*. Responsive Management's research has also been highlighted in *Newsweek* magazine.

Visit the Responsive Management website at:

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