

# Responsive Management™



## **ARIZONA ANGLERS' OPINIONS, ATTITUDES, AND EXPENDITURES IN THE STATE**

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

**by Responsive Management**

**2014**

# **ARIZONA ANGLERS' OPINIONS, ATTITUDES, AND EXPENDITURES IN THE STATE**

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## **EXECUTIVE SUMMARY**

### **INTRODUCTION AND METHODOLOGY**

This study was conducted for the Arizona Game and Fish Department (hereinafter referred to as the Department) to determine anglers' opinions on various regulations, their satisfactions and dissatisfactions with fishing in Arizona, their fishing locations and methods typically used, and their fishing-related expenditures in Arizona in 2013. The study entailed a multi-modal survey of Arizona anglers.

The survey obtained data from a scientifically selected random sample, stratified by county, using telephone and Internet modes. The survey questionnaire was developed cooperatively by Responsive Management and the Department. Responsive Management conducted pre-tests of the questionnaire to ensure proper wording, flow, and logic in the survey.

The database of Arizona anglers was obtained from the Department, from which the sample was randomly drawn, stratified by county. The sample was representative of all anglers who bought a license in each county, as well as those from outside the state. After the sample database (licensed anglers in Arizona) had been obtained, the first step in the survey process was to remove duplicate people from the sample database (e.g., the same person who bought two types of licenses), update the information in the database (updating incorrect addresses when a forwarding address or correct address could be found and removing invalid addresses), and acquire valid telephone numbers through a professional service that matches telephone numbers to addresses.

The researchers then chose the survey sample from the sample database, stratified among the counties, but randomly chosen within the counties. The survey sample was stratified among the counties to attempt to reach specified goals for each county. Only after the sample was selected were potential respondents given the choice of survey modes.

Simultaneous to the work being done to prepare the survey sample, the researchers designed a postcard to be sent to respondents asking for their participation in the survey. The postcard featured the Department logo, the Internet address for the online survey, a quick response (QR)

code to access the survey from mobile devices, a toll-free telephone number to take the survey by telephone, and Spanish instructions with a number to take the survey in Spanish. The postcard also told of a drawing for a lifetime license as an incentive for respondents to complete the survey.

The first wave of postcards was sent to the survey sample that had been chosen. The postcard encouraged participation in the survey and offered two modes (telephone and Internet) for completing the survey. A month after the first wave was sent, a second wave of postcards was sent, and it included anglers who had received the first mailing. This second sample was also apportioned among the counties to obtain the specified goal of completed interviews in each county in Arizona, and it was increased over the first sample to account for the high number of invalid records in the database obtained from the Department.

After the second wave of postcards, Responsive Management called those who had been contacted in one or both of the waves but had not completed the survey. During these calls, the interviewer encouraged participation through the Internet or offered to conduct the survey by telephone at that time. In addition, Spanish interviews were completed at this time, based on those in the survey sample who had called the Spanish telephone contact number.

For the telephone portion of the survey, eligible surveying times were 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 Internet surveys, obviously, could be completed at any time of the day convenient for the respondent.

The software used for telephone data collection was Questionnaire Programming Language. The Internet portion of the survey used a commercial site that specializes in survey research for the data collection.

The survey was conducted from November 25, 2013, to January 14, 2014. At the conclusion of the survey period, Responsive Management had obtained 6,414 total completed surveys. 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 statewide sample of Arizona anglers, the sampling error is at most plus or minus 1.21 percentage points.

## **SPECIES FISHED AND SPECIES INFORMATION**

- One of the first questions in the survey asked anglers in the database (licensed anglers) if they had fished in 2013: 88% had done so. These 88% are hereinafter referred to as “active anglers.”
  
- The most popular species fished, by far, are trout and bass. Among active anglers, 69% fished for trout overall (68% for non-native such as rainbow, and 17% for native trout) and 63% fished for bass (58% for largemouth or smallmouth bass, and 21% for striped bass).
  - Also of importance are catfish (30% overall, 26% for channel, and 15% for flathead), crappie (21%) and sunfish (13%).
  
- An analysis was run based on three questions: the species fished, the days fished, and the percent of time spent fishing for each species.
  - Bass and trout account for the most fishing days: smallmouth/largemouth bass were fished for on 39.7% of angler days, and non-native trout were fished for 36.8% of angler days in 2013.
    - In multiplying the mean number of days by the number of anglers, the analysis finds that anglers spent 2.55 million days fishing for smallmouth/largemouth bass, and 2.36 million days fishing for non-native trout in 2013.
  
- Finally, the survey asked active anglers to name their one *preferred* species to fish for in Arizona. The most preferred species in the top tier are trout (41%) and bass (31%). In a second tier are catfish (7%), walleye (7%), and crappie (6%).

## **FISHING METHODS USED**

- A majority of active anglers (59%) say that they mostly fish for specific types of fish rather than anything that bites.

- Those active anglers who indicated that they “mostly fish for specific types of fish” (rather than “anything that bites”) were asked to name all the various methods that they had used for fishing in Arizona in 2013. Leading the list is lures (used by 73%), followed by live bait (59%), other bait (50%), and flies (34%).
- The survey asked those who had used live bait to indicate the percentage of time that they spent using each of the four live types (worms/mealworms, minnows/other fish, waterdogs, and crickets). Two live bait types account for the most live bait use: worms/mealworms (used a mean of 76.1 percent of the time when using live bait) and minnows/other fish (mean of 20.1 percent of the time when using live bait).
- Anglers were asked about the six primary bait/equipment methods that they *would prefer* to see more opportunities for in Arizona. The top one is live bait (33%), followed by lures (26%), flies (16%), and other bait such as powerbait and cheese (10%).
- Another question asked about catch-and-release, asking active anglers the percent of the fish that they catch that they typically release. The mean percent of their responses is 61.0 percent, and this includes those 19% who *release all* their catch and 25% who *keep all* of their catch. (Note that this does not mean that 61.0% of all fish that are caught are released, because all respondents do not catch the same amount of fish.)

## **FISHING LOCATIONS**

- Seven locations had nearly 10% or more of active anglers fishing there at some point in 2013: Roosevelt Lake (18.4%), Lake Pleasant (14.2%), Big Lake (12.3%), Canyon Lake (9.8%), Bartlett Lake (9.6%), Woods Canyon Lake (9.6%), and Saguaro Lake (9.4%).

## **SATISFACTIONS AND DISSATISFACTIONS WITH FISHING IN ARIZONA**

- A large majority of active anglers (83%) were satisfied with their overall 2013 fishing experiences in Arizona; however, 11% were dissatisfied.

- A series of questions asked about satisfaction or dissatisfaction with a variety of aspects of fishing in Arizona, such as the amount of fish caught, the size of fish caught, or access to the waters.
  - The greatest satisfaction is with the *variety of fish* available (84% are satisfied), followed by three more aspects with at least two-thirds being satisfied with it: level of access (78%), consumption safety (69%), and availability of waters where bait can be used (68%).
    - The greatest dissatisfaction is with the number of fish caught (28% are dissatisfied) and the size of the fish caught (22%). However, for each aspect, satisfaction leads dissatisfaction, even for these with relatively high dissatisfaction.
  
- Three questions asked active anglers about satisfaction or dissatisfaction with aspects of their *most recent fishing trip* in Arizona.
  - The most basic of the three questions asked active anglers about satisfaction or dissatisfaction with their *most recent fishing trip* in Arizona overall: 74% were satisfied, while 18% were dissatisfied.
  - Another question asked about satisfaction or dissatisfaction with the *number* of fish caught on their most recent trip: just more than half (52%) were satisfied, but more than a third (37%) were dissatisfied.
  - A final question about the most recent trip asked active anglers about their satisfaction or dissatisfaction with the *size* of the fish they caught on their most recent trip: 53% were satisfied, while 28% were dissatisfied.

## PERCEPTIONS OF CROWDING AT FISHING AREAS

- Four questions asked about crowding overall in Arizona in 2013 when active anglers were fishing. In general, ratings of crowding were relatively low (no higher than 3.31 on a 0 to 10 scale, with 0 being not at all crowded and 10 being extremely crowded). Nonetheless, not insubstantial percentages gave a rating of higher than the midpoint (ranging from 13% to 19%). The highest mean rating was for crowding from other anglers (3.31); the highest percentage above the midpoint was for crowding from personal watercraft (referred to as PWC) operators (19% above the midpoint).

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- Another question asked about crowding on active anglers' most recent fishing trip in Arizona. The mean rating was well below the midpoint, at 3.40. More than a fifth of active anglers (22%) gave the question the lowest rating of 0, and a large majority (64%) gave a rating below the midpoint. However, 21% gave a rating above the midpoint.
  
  - Three additional questions asked active anglers about their most recent fishing trip: the first asked them how many other anglers not in their fishing party that they saw each day, the second asked how many other anglers they expected to see, and the third asked them how many other anglers would have been acceptable.
    - Regarding the number of other anglers that they saw, the answers range widely from no other anglers to more than 50. The mean number is 17.8 other anglers, and the median answer is 10 other anglers.
    - It would appear that active anglers saw about the number of other anglers that they expected to see: the mean is 18.7 other anglers, and the median is 10 other anglers.
    - Although active anglers saw about the number of anglers they expected to see, it is worth noting that the number they saw, in general, is close to their threshold. When asked about the number of other anglers that would be acceptable to see, the mean is 21.6 other anglers, and the median is 12 other anglers, not much greater than what active anglers actually saw.
    - An analysis put two of these questions together, finding that 18% saw more other anglers than their threshold, 29% saw the same as their threshold, and 42% saw fewer other anglers than their threshold.
  
  - Another question specific to active anglers' last trip found that they were about evenly split regarding whether other anglers not in their fishing party were using or wanted to use the same fishing area that they (the respondents) were using. When presented with the statement, "Other anglers not in my fishing party wanted to use or were using the same fishing areas that I was using during my fishing trip to \_\_\_\_\_\*", 43% of active anglers agreed, while 37% disagreed—a difference of only 6 percentage points.
    - \* The survey inserted the name of the location of each angler's most recent fishing trip in the question, based on his/her earlier answer in the survey about the location.

## OPINIONS ON REGULATIONS IN GENERAL AND THE REGULATIONS BOOKLET

- Anglers were asked about the restrictiveness of Arizona's fishing regulations, and the large majority are fine with the level of restrictiveness: 74% say the regulations should be about the same as they currently are vis-à-vis restrictiveness. Otherwise, 5% say that they should be *more* restrictive while 15% say that they should be *less* restrictive.
- The clarity of the regulations does *not* seem to be a problem, as 89% of anglers agree that the regulations are clear and easy to understand. Only 4% disagree.
- The questions above were about the regulations themselves; one question, however, specifically asked about the ease of use of the *regulations booklet*. A large majority of anglers (83%) agree that the regulations booklet is easy to use, while only 3% disagree.
- Two open-ended questions (in which no answer set was given but to which respondents could have given any response that came to mind) asked about the things that are most liked about the regulations booklet and the things that are least liked (i.e., disliked).
  - The most liked thing about the regulations booklet is the layout/that it is easy to read (the top-named item at 38%). Other responses include the specific information about water bodies/maps (11%), that it is easily accessible, including online (9%), that it is thorough (9%), and the information about fish species (8%).
  - Regarding the least liked things about the regulations booklet, no item was named by more than 8% of anglers. The top item is that it is perceived as too long/wordy.

## OPINIONS ON BAG LIMITS

- Trout anglers were asked about their support for or opposition to various trout bag limits. The trout anglers were randomly assigned into six groups; each group was given one of the potential limits from 0 (allowing none to be kept) to 5, after being told that the current limit is 6 trout.
  - For trout bag limits of 0 through 3, opposition far exceeds support. At a limit of 4 trout, support and opposition are about the same. At the limit of 5 trout, support far exceeds

opposition. Based on the data, any limit of less than 4 trout will be met with much opposition.

- In a similar fashion, catfish anglers were asked about various catfish limits, after being told that the current limit is 25 per day. They were asked about limits of 5, 10, 15, and 20 catfish.
  - At the lowest limit of 5 catfish, support and opposition are the same (both at 38%). At higher limits, support far exceeds opposition, with a majority supporting each limit over 5 (limits of 10, 15, and 20). At the highest limit of 20, only 2% of catfish anglers are in opposition.
- Finally, the survey asked about crappie limits (currently there is no limit). The survey asked about possible limits of 10, 15, 20, and 25 crappie.
  - Opposition just slightly exceeds support at the lowest limit asked about (10 crappie). At all higher limits, support far exceeds opposition, with a majority in support of each limit above 10 crappie. At the highest limit of 25 crappie, only 7% oppose.

### **OPINIONS ON MANAGEMENT STRATEGY**

- The survey asked active anglers if they would prefer catching a few larger fish (i.e., manage for quality over quantity) or catching many smaller fish (i.e., manage for quantity over quality) when they go fishing. The former is preferred by a majority: 71% say that they would rather go fishing where they can catch a few larger fish.

### **THE DEPARTMENT'S FISHING REPORT**

- Just about half of Arizona's anglers (52%) have used the Fishing Report on the Department's website.
  - Of those who have used the Fishing Report, a little under half (43%) find it *very* useful, and another 52% find it *somewhat* useful. Only 5% say that it has no utility.

**ARIZONA ANGLER EXPENDITURE DATA**

- The expenditure data are shown in the tabulations that follow. In total, it is estimated that Arizona anglers spent a little over \$1 billion on fishing trips and fishing-related equipment in Arizona in 2013. This is \$3,130.18 per angler annually. Note that these are expenditures only; the data do not show any multipliers (i.e., the economic activity that would be generated by the spending done by anglers).

**Total Arizona Angler Expenditures in 2013 (Except Large Items)**

<b>Expenditure Category</b>	<b>Mean Dollar Amount Spent in 2013</b>	<b>Total Dollar Amount Spent in 2013</b>
Food, groceries, drink, restaurant, and dining	411.53	144,035,011
Lodging at hotels, motels, cabins, lodges, and campgrounds	148.68	52,038,421
Equipment rental, such as boats, fishing, and camping equipment	103.89	36,361,010
Gas and fuel for cars and other land vehicles (NOT including boat fuel)	360.95	126,333,525
Boat fuel	110.13	38,545,764
Boat launch fees	23.90	8,365,287
Fishing guide fees	15.73	5,506,823
Rods, reels, poles, lines, and leaders (including fly fishing gear)	172.78	60,474,320
Live bait	29.98	10,494,150
Artificial baits, lures, and flies	72.98	25,544,549
Hooks, sinkers, and swivels	25.02	8,756,865
Tackle boxes	8.21	2,872,203
Creels, stingers, and fish bags	3.73	1,306,257
Depth finders, fish finders, and other electronic fishing devices	52.73	18,456,842
Other fishing equipment, such as knives, hook removers, and fly fishing accessories	15.43	5,400,476
Clothing, such as foul weather gear, waders, and boots	28.76	10,064,564
PFDs / life jackets	10.61	3,714,224
First aid supplies and medical treatment related to fishing trips	11.22	3,926,257
Camping equipment (NOT including camping vehicles), such as tents, tarps, backpacks, sleeping bags, stoves, coolers, and lanterns	63.10	22,083,350
Boat equipment (NOT including a boat or boat trailer/hitch), such as a new boat motor and other boat parts or accessories	119.71	41,899,226
Motor boat maintenance and insurance	91.44	32,004,864
Canoe maintenance and insurance	2.25	787,429
Fishing licenses, stamps, tags, and permits	59.37	20,780,058
Fishing club or association dues and fees	3.09	1,081,513
Fishing club, association, or other fisheries-related donations	3.78	1,322,760
Fish processing, mounting, and taxidermy	2.44	853,112
Gifts and souvenirs	9.78	3,422,342
<b>Total except large items</b>		<b>686,431,200</b>

### Total Arizona Angler Expenditures in 2013

All Expenditures in Total	Total Dollar Amount Spent in 2013
All except large items (from first table in this section)	686,431,200
Boats (except Canoes/Kayaks)	98,684,828
Trailers	38,060,367
Campers	78,885,156
ATVs	4,570,855
Trucks/Jeeps	152,598,455
Cabins	11,256,497
Canoes/Kayaks	2,895,162
Motors/Vehicle Parts	3,002,219
Other	9,115,313
<b>Total</b>	<b>1,085,500,052</b>
<b>Mean per Angler*</b>	<b>3,130.18</b>
*Based on approximately 350,000 licensed anglers who may make fishing-related purchases in the state	

### PARTICIPATION IN OUTDOOR RECREATION IN GENERAL

- An open-ended question asked anglers to indicate other outdoor recreation activities that they enjoy. The most common are hunting (51% participate), hiking/backpacking (25%), and camping (20%). A second tier consists of golf (8%), ATVing/off-roading (8%), boating (6%), bicycling (6%), and shooting (5%).
  - Anglers were asked to compare the importance of fishing to their other recreation activities. For a majority of anglers (60%), fishing is either their most important recreational activity or one of their most important activities.

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## **INTRODUCTION AND METHODOLOGY**

This study was conducted for the Arizona Game and Fish Department (hereinafter referred to as the Department) to determine anglers' opinions on various regulations, their satisfactions and dissatisfactions with fishing in Arizona, their fishing locations and methods typically used, and their fishing-related expenditures in Arizona in 2013. The study entailed a multi-modal survey of Arizona anglers. Specific aspects of the research methodology are discussed below.

### **SURVEY MODES**

The survey obtained data by telephone and the Internet. This approach allowed for a large number of anglers to be surveyed while still maintaining the representativeness of the sample. The multi-modal approach is also the most convenient for the respondents.

### **QUESTIONNAIRE DESIGN**

The survey questionnaire was developed cooperatively by Responsive Management and the Department, based on the research team's familiarity with fishing, outdoor recreation, and natural resources. Responsive Management conducted pre-tests of the questionnaire to ensure proper wording, flow, and logic in the survey.

In some places in the survey, a subset was randomly taken from the entire sample and asked certain questions; other subsets were asked other questions. This allowed for an extensive survey without any single respondent having to go through the entire survey, which would have been prohibitively long. Note that other questions were asked of everybody in the survey.

### **SURVEY SAMPLE**

The sample of Arizona anglers was obtained from the Department. The sample was representative of all anglers who bought a license in the state, and it included both resident and nonresident licenses. The sample was stratified by county (for residents by their county of residence) with the goal being a large enough sample size in each county to be statistically valid. A sample of nonresidents was also surveyed. The tabulation on the following page shows sampling goal for each county and for nonresidents.

### Sampling Goal in Each County

County	Goal	County	Goal	County	Goal
Apache	317	Greenlee	317	Pima	599
Cochise	317	La Paz	317	Pinal	384
Coconino	384	Maricopa	679	Santa Cruz	317
Gila	317	Mohave	384	Yavapai	384
Graham	317	Navajo	384	Yuma	384
Statewide Goal					5,801
Nonresident Goal					599
Total Resident and Nonresident Sample Goal					6,400

## SURVEY ADMINISTRATION AND DATA MANAGEMENT

As mentioned above, after the sample was chosen, the survey was administered in two ways: by telephone and by Internet. Both survey modes used a named respondent method (i.e., a person was chosen in the sampling plan rather than a random number) to ensure that the sample remained representative of all anglers in Arizona. The representativeness of the sample was maintained by including telephones as a mode of surveying in addition to the Internet.

### Preparation of Database

After obtaining the sample database (licensed anglers in Arizona), the initial steps in the survey process were to remove duplicate people from the sample database (e.g., the same person who bought two types of licenses), update the information in the database (updating incorrect addresses when a forwarding address or correct address could be found and removing invalid addresses), and acquire valid telephone numbers through a professional service that matches telephone numbers to addresses. Responsive Management conducted the de-duplication process and contracted firms that specialize in providing scientifically valid samples for surveys to assist with the two latter procedures.

The researchers then chose a scientifically valid survey sample of 20,000 names from the sample database, stratified among the counties, but randomly chosen within the counties. The survey sample was stratified among the counties to attempt to reach the aforementioned goals for each county. Note that the sample was chosen to be representative of anglers with no regard for the survey mode that would be used. Only after being selected in the sample were potential respondents contacted and given the choice of survey modes.

**Postcards**

Simultaneous to the work being done to prepare the survey sample, the researchers designed a postcard to be sent to respondents asking for their participation in the survey. The postcard featured the Department logo, the Internet address for the online survey, a quick response (QR) code to access the survey from mobile devices, a toll-free telephone number to take the survey by telephone, and Spanish instructions with a number to take the survey in Spanish. The postcard also told of a drawing for a lifetime license as an incentive for respondents to complete the survey.

**Contacting the Sample**

The first wave of 20,000 postcards were sent to the survey sample that had been selected. The postcard encouraged participation in the survey and offered two modes (telephone and Internet) for completing the survey. A month after the first wave was sent, a second wave of postcards was sent to 30,000 respondents, stratified among the counties, but randomly generated within each county. The second wave sample was increased over the first wave because of the high rate of invalid addresses discovered after the first wave, and the researchers wanted to ensure that they would obtain enough completed interviews in each county for valid results. This second wave included anglers who had received the first mailing, but it excluded those who had already taken the survey. This second sample was also apportioned among the counties to obtain the aforementioned goal of completed interviews in each county in Arizona, with the end result being a sample that was statistically valid in each county.

To ensure that only people chosen for the survey sample took the survey, and as a way to enter them into the drawing for a lifetime license, each respondent was assigned a survey identification number. In addition to being used to enter the respondent in the drawing, this number allowed the researchers to determine who had taken the survey after the first wave so that they were not sent the second wave postcard and to prevent respondents from submitting duplicate or multiple surveys in an attempt to be entered into the drawing more than once.

After the second wave of postcards, Responsive Management called those who had been contacted in one or both waves but had not completed the survey. During these calls, the interviewer encouraged participation through the Internet or offered to conduct the survey by telephone at that time. In addition, Spanish interviews were completed at this time, based on those in the survey sample who had called the Spanish telephone contact number.

### **Polling and Data Management Facilities**

A central polling and data management site at the Responsive Management office allowed for rigorous quality control over the telephone interviews and data collection. Responsive Management maintains its own in-house telephone interviewing and data management facilities, staffed with interviewers who have been trained according to the standards established by the Council of American Survey Research Organizations. Its staff is experienced in conducting computer-assisted telephone interviews and managing Internet surveys on the subjects of fishing, outdoor recreation, and natural resources.

### **Administering the Survey and Quality Control**

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.

The integrity of the Internet portion of the survey data was ensured by using survey software that allowed proper flow and skip-outs in the questionnaire, according to the responses provided by the angler. Furthermore, the use of the identification number to take the survey ensured that only those anglers randomly chosen for the survey would be represented in the final data.

For the telephone portion of the survey, eligible surveying times were 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 Internet surveys, obviously, could be completed at any time of the day convenient for the respondent.

The software used for telephone data collection was Questionnaire Programming Language (QPL). The survey data were entered into the computer as each telephone 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 telephone 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.

The Internet portion of the survey used a commercial site that specializes in survey research. The data were checked daily to ensure clarity and completeness, as well.

The survey was conducted from November 25, 2013, to January 14, 2014. At the conclusion of the survey period, Responsive Management had obtained 6,414 total completed surveys: 3,478 completed surveys by telephone, including 3,451 English and 27 Spanish calls, and 2,936 completed surveys by Internet. The county-by-county count of completed interviews is shown in the tabulation below.

#### Sample Obtained in Each County

County	Completed Surveys	County	Completed Surveys	County	Completed Surveys
Apache	234	Greenlee	78	Pima	699
Cochise	383	La Paz	77	Pinal	493
Coconino	466	Maricopa	760	Santa Cruz	80
Gila	358	Mohave	403	Yavapai	524
Graham	283	Navajo	436	Yuma	433
Statewide Completed Surveys					5,707
Nonresident Completed Surveys					707
Total Resident and Nonresident Completed Surveys					6,414

#### DATA ANALYSIS

The analysis of data was performed using Statistical Package for the Social Sciences as well as proprietary software developed by Responsive Management. The data were analyzed statewide as well as by each county. For the statewide results, each county was properly weighted so that it represented its portion of the state total of all licensed anglers.

The entire sample included some anglers in the database who had not fished in Arizona in 2013, and some questions were asked of the entire sample. Other questions were asked only of those who had fished in 2013; this sample will be referred to as “active anglers” in the report to distinguish them from anglers in the entire database.

One aspect of the data analysis was a look at locational information, which included obtaining data about the water body in Arizona in which the angler last fished. The survey used a list of water bodies provided by the Department of 93 water bodies or sections of water bodies, as shown in the tabulation below. When an angler was unsure of the name of the water body, the survey asked the respondent to describe the location using local landmarks. In most instances, this allowed one of the data analysts to meticulously locate and assign the proper water body to that respondent for the analyses, a painstaking process that took several days.

#### Arizona Bodies of Water for Angler Survey

1. Alamo Lake	32. Fain Lake	63. Parker Canyon Lake
2. Alvord Lake	33. Fool Hollow Lake	64. Patagonia Lake
3. Apache Lake	34. Fortuna Pond (Moser Pond)	65. Pena Blanca Lake
4. Arivaca Lake	35. Francis Short Pond	66. Phoenix Area Canals
5. Ashurst Lake	36. Frye Mesa Reservoir	67. Rainbow Lake
6. Bartlett Lake	37. Gila River – Phoenix Area	68. Red Mountain Lake
7. Bear Canyon Lake	38. Gila River – Safford Area	69. Redondo Lake
8. Becker Lake	39. Goldwater Lake	70. Riggs Flat Lake
9. Big Lake	40. Granite Basin Lake	71. Roosevelt Lake
10. Black Canyon Lake	41. Green Valley Lake	72. Roper Lake
11. Black River, East Fork	42. Greer Area Lakes – Bunch, River, Tunnel	73. Rose Canyon Lake
12. Black River, West Fork	43. Kaibab Lake	74. Saguaro Lake
13. Canyon Creek	44. Kennedy Lake	75. Salt River (above Roosevelt)
14. Canyon Lake	45. Kinnikinnick Lake	76. Salt River (below Saguaro)
15. Carnero Lake	46. Knoll Lake	77. Show Low Lake
16. Cataract Lake	47. Lake Havasu	78. Silver Creek
17. Chaparral Lake	48. Lake Mary (Lower)	79. Silverbell Lake
18. Chevelon Lake	49. Lake Mary (Upper)	80. Surprise Lake
19. Christopher Creek	50. Lake Mead	81. Tempe Town Lake
20. Clear Creek Reservoir	51. Lake Mohave	82. Tonto Creek (Salt River Drainage)
21. Cluff Ranch Ponds	52. Lake Pleasant	83. Verde River (Sullivan Lake to Perkinsville)
22. Colorado River – Lees Ferry	53. Lake Powell	84. Verde River (Sycamore Creek to Childs)
23. Colorado River – Topock Area	54. Lee Valley Lake	85. Verde River (Bartlett Dam to Fort McDowell Indian Reservation)
24. Colorado River – Parker Strip Area	55. Little Colorado River (Sheep’s Crossing)	86. Veterans Oasis Lake
25. Colorado River – Ehrenberg/ Blythe to Yuma	56. Little Colorado River (Greer)	87. Watson Lake
26. Cortez Lake	57. Lyman Lake	88. Whitehorse Lake
27. Council Park Pond (Somerton)	58. Luna Lake	89. Willow Springs Lake
28. Crescent Lake	59. Lynx Lake	90. Woodland Reservoir
29. Dead Horse Lake	60. Mittry Lake	91. Woods Canyon Lake
30. Dogtown Reservoir	61. Nelson Reservoir	92. Yuma Area Canals
31. East Verde River	62. Oak Creek	93. Yuma West Wetlands Pond

On questions that asked respondents to provide a number (e.g., number of 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.

## SAMPLING ERRORS AND RESPONSE RATE

Throughout this report, findings of the telephone survey are reported at a 95% confidence interval. For the entire statewide sample of Arizona anglers, the sampling error is at most plus or minus 1.21 percentage points. In each county, the sampling errors are shown in the tabulation below.

County	Sample	Population	Sampling Error
Apache	234	3,798	6.21
Cochise	383	7,636	4.88
Coconino	466	16,478	4.48
Gila	358	8,112	5.06
Graham	283	4,867	5.65
Greenlee	78	1,745	10.85
La Paz	77	1,272	10.83
Maricopa	760	167,567	3.55
Mohave	403	17,083	4.82
Navajo	436	11,281	4.60
Pima	699	38,415	3.67
Pinal	493	12,178	4.32
Santa Cruz	80	1,343	10.63
Yavapai	524	19,472	4.22
Yuma	433	10,555	4.61
Out-of-State	707	28,199	3.64
Total	6,414	350,000*	1.21

The sampling errors were calculated using the formula described below.

### 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).

The response rate was an estimated 30%. Calculating the response rate on multi-modal surveys entails first determining the rate of returned/invalid contacts for all modes. For this survey, because the initial database of potential contacts provided by the Department contained many invalid contacts and/or addresses (and even though that database was updated as best as could be done), there was a relatively high rate of invalid contacts. Furthermore, the survey period ended before a final call status determination could be made for all those who had received a mailing. For determining the response rate, the calculation used 21,384 as the estimated number of valid contacts for which a final call status determination could be made and 6,414 completed interviews.

### **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.
- Series questions: Many questions are part of a series, and the results are primarily intended to be examined relative to the other questions in that series (although results of the questions individually can also be valuable). Typically, results of all questions in a series are shown together.

The entire sample of anglers includes those who did not fish in Arizona in 2013, referred to simply as “anglers” in the report. Some questions were asked of those who had fished in Arizona in 2013, and they are referred to as “active anglers” in the report.

The “n-value” on the graphs shows the number of respondents who were asked the question. Note that in some places the sample was randomly split, with some random subgroups getting some questions and other subgroups getting other questions, thereby allowing an extensive survey to be administered without any one respondent having to go through the entire survey.

Other questions are simply follow-up questions asked only of those who meet certain criteria (e.g., only those who used minnows for bait are asked about whether they mostly purchase or mostly catch minnows for bait). For this reason, the n-value on some graphs may be less than the total sample.

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 150 means that half the sample gave an answer of more than 150 and the other half gave an answer of less than 150.

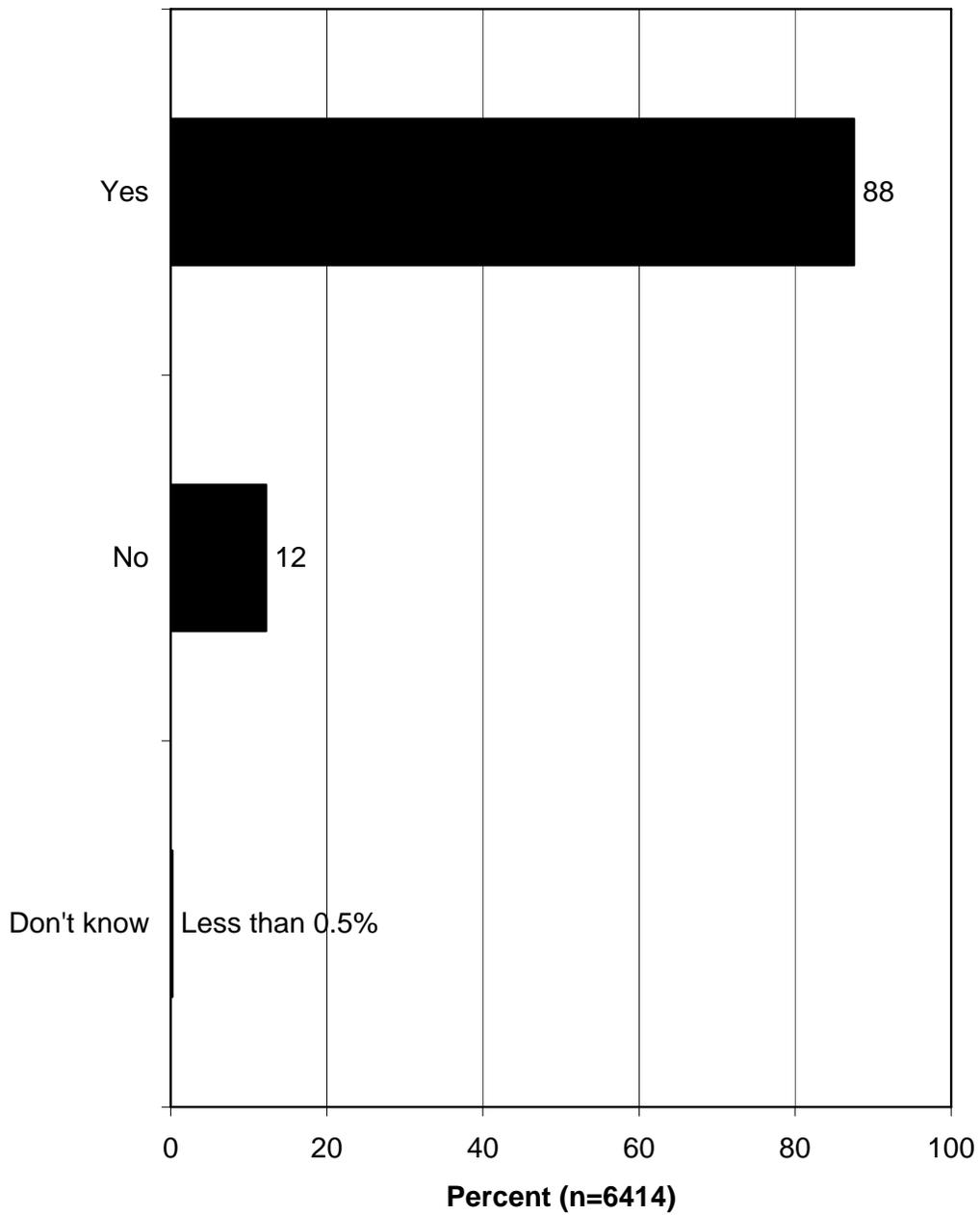
Most graphs show results rounded to the nearest integer; however, all data are stored in decimal format, and all calculations are performed on unrounded numbers. For this reason, some results may not sum to exactly 100% because of this rounding on the graphs. Additionally, rounding may cause apparent 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).

The survey results are broken down thematically (for instance, the first theme is species fished) rather than presented sequentially by question number. Each section of the report includes a summary page of the results pertaining to that theme, followed by all the graphs and tabulations that were discussed in summary. In general, for each question in the survey, a graph of the statewide results is presented followed by a tabulation of the county-by-county results for that question.

## SPECIES FISHED AND SPECIES INFORMATION

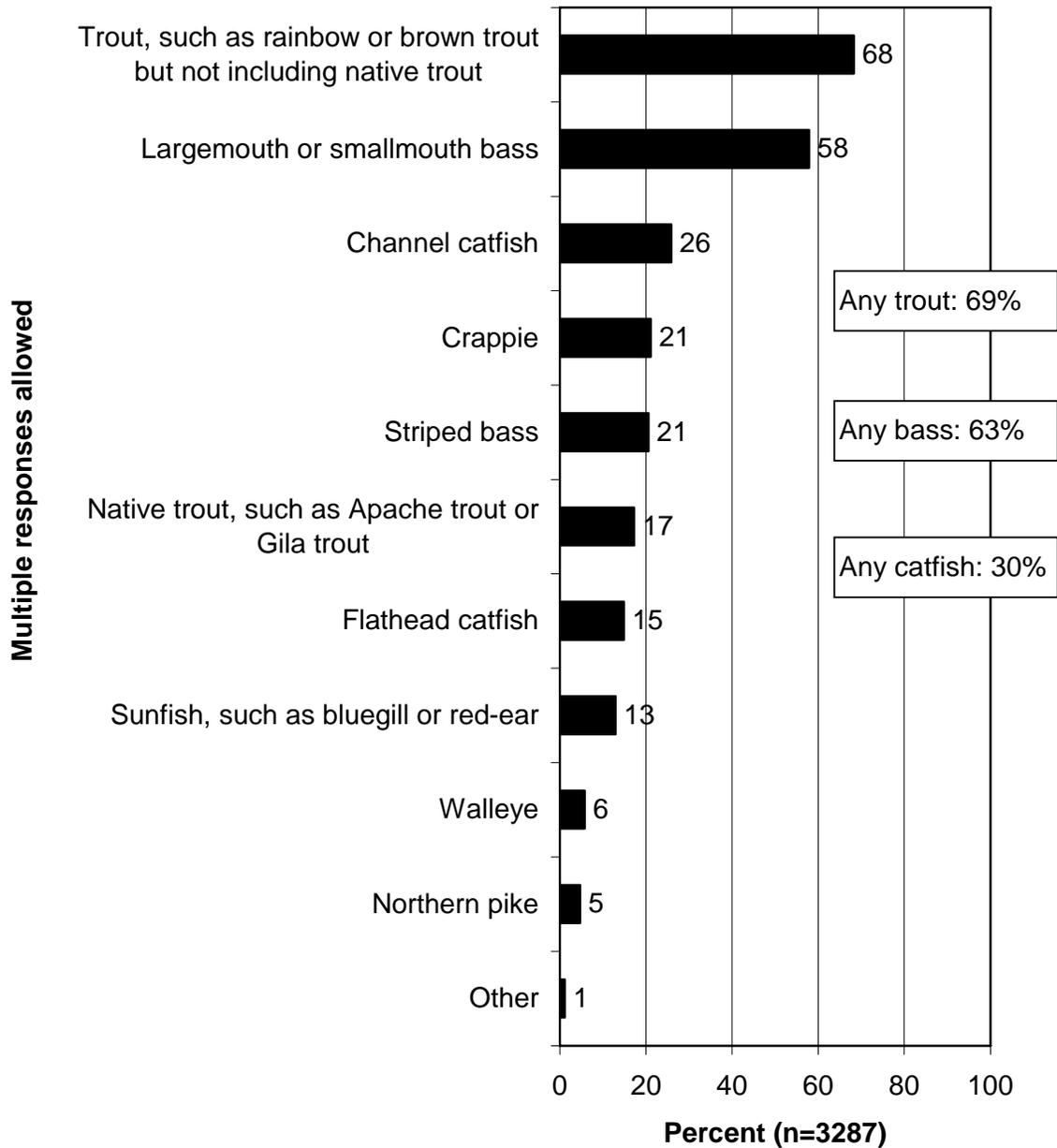
- One of the first questions in the survey asked anglers in the database (licensed anglers) if they had fished in 2013: 88% had done so. These 88% are hereinafter referred to as “active anglers.”
  
- The most popular species fished, by far, are trout and bass. Among active anglers, 69% fished for trout overall (68% for non-native such as rainbow, and 17% for native trout) and 63% fished for bass (58% for largemouth or smallmouth bass, and 21% for striped bass).
  - Also of importance are catfish (30% overall, 26% for channel, and 15% for flathead), crappie (21%) and sunfish (13%). Less than 10% fished for walleye, northern pike, or other species.
  
- An analysis was run based on three questions: the species fished, the days fished, and the percent of time spent fishing for each species.
  - Bass and trout account for the most fishing days: smallmouth/largemouth bass were fished for on 39.7% of angler days, and non-native trout were fished for 36.8% of angler days in 2013.
    - In multiplying the mean number of days by the number of anglers, the analysis finds that anglers spent 2.55 million days fishing for smallmouth/largemouth bass, and 2.36 million days fishing for non-native trout in 2013.
  
- Finally, the survey asked active anglers to name their one *preferred* species to fish for in Arizona. The most preferred species in the top tier are trout (41% overall, 34% for non-native such as rainbow, and 6% for native trout—rounding causes the apparent discrepancy in sum) and bass (31% overall, 26% for largemouth or smallmouth bass, and 5% for striped bass). In a second tier are catfish (7% overall, 4% for channel catfish, and 2% for flathead catfish—rounding causes the apparent discrepancy in sum), walleye (7%), and crappie (6%). The graph shows the full listing.

**Q22. Have you personally fished in Arizona in 2013?**





**Q49. Which of the following species have you fished for in Arizona in 2013? (Among active anglers who indicated that they "mostly fish for specific types of fish" rather than "anything that bites.")**



**Q49. Which of the following species have you fished for in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

Species	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Trout, such as rainbow or brown trout but not including native trout	90	68	80	68	80	73	28	72
Largemouth or smallmouth bass	46	59	49	58	49	64	70	60
Channel catfish	23	30	23	20	47	59	36	22
Crappie	28	29	28	40	32	18	20	20
Striped bass	3	9	21	9	8	2	28	21
Native trout, such as Apache trout or Gila trout	23	15	14	21	25	23	2	19
Flathead catfish	14	25	8	17	33	48	30	13
Sunfish, such as bluegill or red-ear	7	25	8	6	14	9	16	12
Walleye	9	4	18	7	2	0	0	5
Northern pike	3	2	20	3	1	2	0	4
Other	0	1	0	1	0	0	8	1

**Q49. Which of the following species have you fished for in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

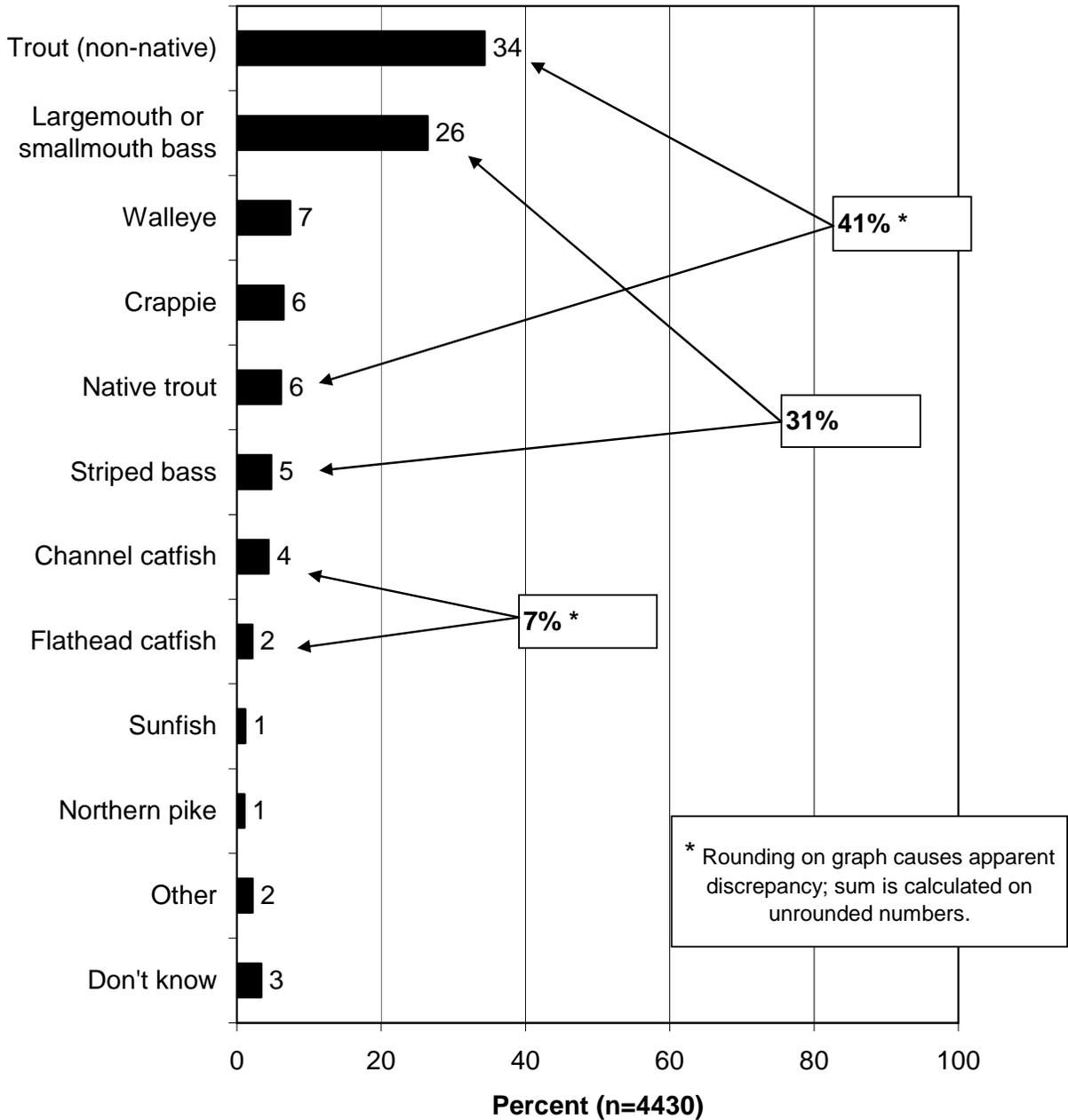
Species	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Trout, such as rainbow or brown trout but not including native trout	40	89	71	67	89	80	37	44
Largemouth or smallmouth bass	63	50	55	56	63	59	78	49
Channel catfish	35	24	36	39	45	32	50	9
Crappie	16	25	21	28	13	21	16	17
Striped bass	76	10	8	10	8	23	26	25
Native trout, such as Apache trout or Gila trout	6	32	21	17	21	15	3	8
Flathead catfish	14	8	20	22	18	16	33	5
Sunfish, such as bluegill or red-ear	22	8	18	11	34	9	31	8
Walleye	2	15	3	5	3	10	0	3
Northern pike	2	4	3	2	5	13	0	1
Other	1	1	1	1	3	1	0	2

**Days Fished for Various Species**

<b>Species</b>	<b>Days Fished</b>	<b>Percent of Days*</b>
Total	6,416,171	
Largemouth or smallmouth bass	2,546,619	39.7%
Striped bass	569,728	8.9%
Trout, such as rainbow or brown trout but not including native trout	2,361,227	36.8%
Native trout, such as Apache trout or Gila trout	231,001	3.6%
Channel catfish	557,924	8.7%
Flathead catfish	322,857	5.0%
Crappie	379,132	5.9%
Sunfish, such as bluegill or red-ear	222,438	3.5%
Walleye	82,973	1.3%
Northern pike	51,804	0.8%

\*Because anglers can fish for more than one species in a day, the percents will sum to more than 100%. Days estimates based on 350,000 licensed Arizona anglers.

**Q69. Which one species would you most prefer to see more fishing opportunities for in Arizona? (Asked of those who personally fished in Arizona in 2013.)**



**Q69. Which one species would you most prefer to see more fishing opportunities for in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Species	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Trout	41	35	39	32	37	35	15	37
Native trout	6	7	7	7	5	2	3	7
Largemouth or smallmouth bass	17	22	24	21	22	24	37	28
Striped bass	1	2	4	2	3	5	8	2
Channel catfish	5	6	4	4	12	19	5	3
Flathead catfish	2	3	2	4	3	7	5	2
Crappie	12	14	4	14	8	5	7	5
Sunfish	0	0	1	0	1	0	0	1
Northern pike	2	2	2	2	2	0	0	1
Walleye	12	4	8	10	2	2	15	9
Other	1	2	2	2	2	0	2	2
Don't know	0	1	1	3	4	2	3	3

**Q69. Which one species would you most prefer to see more fishing opportunities for in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

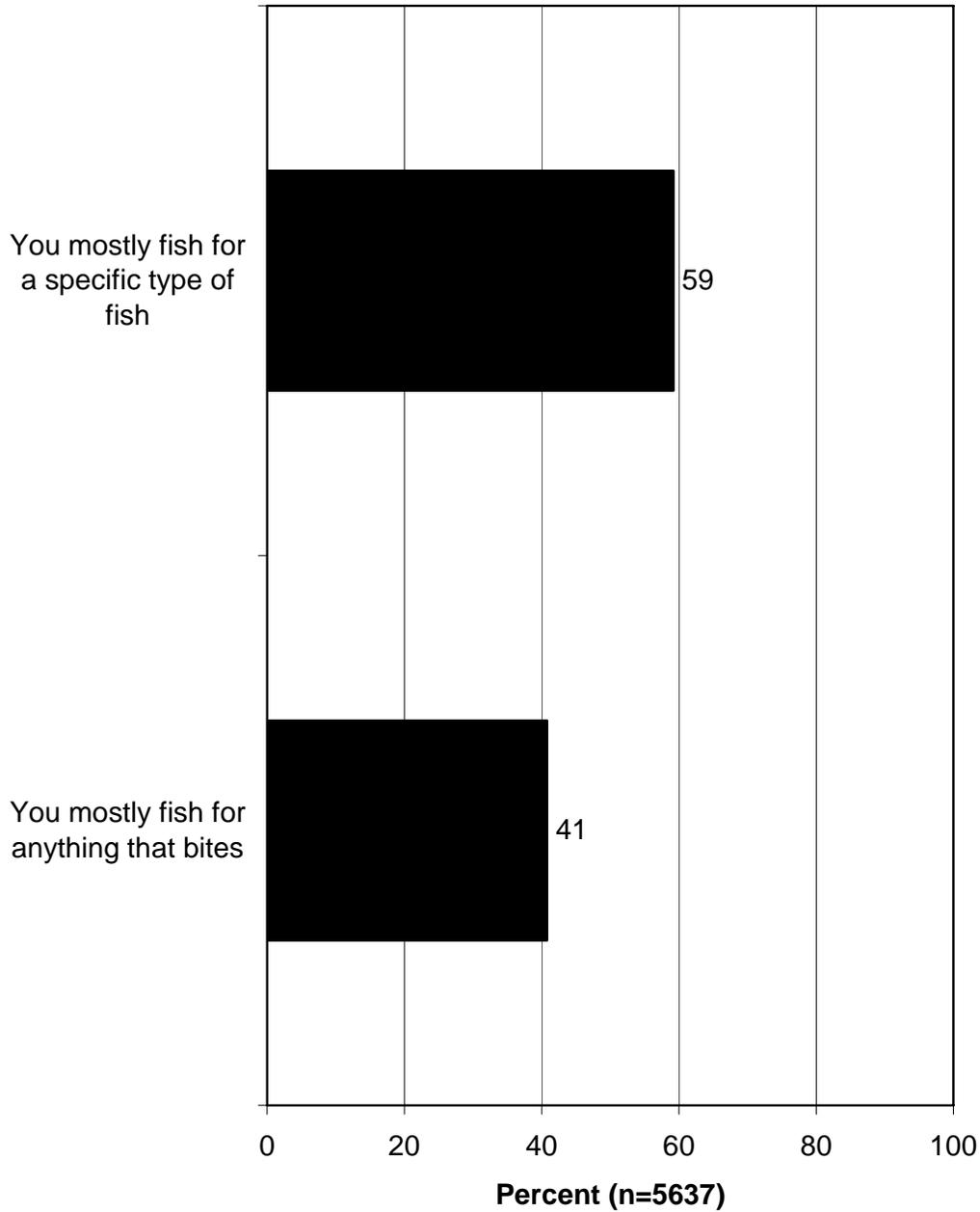
Species	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Trout	18	45	33	36	38	34	22	28
Native trout	3	5	7	5	8	7	3	5
Largemouth or smallmouth bass	29	16	26	21	25	23	38	27
Striped bass	29	2	2	4	6	4	7	11
Channel catfish	3	3	7	7	4	6	7	3
Flathead catfish	3	3	2	4	2	2	7	0
Crappie	4	11	8	10	6	7	5	9
Sunfish	0	0	2	1	0	1	1	3
Northern pike	1	1	1	1	4	3	1	1
Walleye	5	10	5	7	4	7	4	4
Other	3	1	2	2	6	2	3	2
Don't know	2	3	5	3	0	3	2	8

## FISHING METHODS USED

- A majority of active anglers (59%) say that they mostly fish for specific types of fish rather than anything that bites.
  
- Those active anglers who indicated that they “mostly fish for specific types of fish” (rather than “anything that bites”) were asked to name all the various methods that they had used for fishing in Arizona in 2013. Leading the list is lures (used by 73%), followed by live bait (59%), other bait (50%), and flies (34%).
  - An analysis found the number of days that anglers fished using various methods, along with the percent of their days that they used each method.
    - Lures as a method accounts for almost half of fishing days: they are used 48.9% of fishing days, which is approximately 3.14 million days. Live bait (25.2%, 1.62 million days) and other bait (22.4%, 1.43 million days) are also used for substantial numbers of days.
  
- The survey asked those who had used live bait to indicate the percentage of time that they spent using each of the four live types (worms/mealworms, minnows/other fish, waterdogs, and crickets). Two live bait types account for the most live bait use: worms/mealworms (used a mean of 76.1 percent of the time when using live bait) and minnows/other fish (mean of 20.1 percent of the time when using live bait). The other two types have means of no more than 2.2 percent of the time. In fact, a majority of those who used live bait (51%) used worms/mealworms exclusively, while 6% used minnows/other fish exclusively.
  - A follow-up question found that the majority of those who used minnows or other fish for live bait in Arizona in 2013 said that they mostly purchased the bait (64%) rather than mostly caught the bait themselves (24%). In the middle, 10% purchase and catch bait fish about equally.
    - A further follow-up was asked of those who caught their own bait fish at least half the time. Among these respondents, 88% mostly catch the bait fish at their fishing site, but 6% mostly catch their bait fish somewhere else and bring them to their fishing site. In the middle, 7% do both about equally.

- Again in follow-up, those who used waterdogs for live bait were asked about purchasing them or catching them. The large majority of those using waterdogs mostly purchase them (81%) rather than mostly catch them (6%), with 5% in the middle doing both about equally.
  - Also in follow-up, those who caught waterdogs at least half the time were asked about where they catch them: 15% mostly catch them at their fishing site, while 72% mostly catch them elsewhere (7% are in the middle, doing both about equally).
- Anglers were asked about the six primary bait/equipment methods that they *would prefer* to see more opportunities for in Arizona. The top one is live bait (33%), followed by lures (26%), flies (16%), and other bait such as powerbait and cheese (10%).
- Another question asked about catch-and-release, asking active anglers the percent of the fish that they catch that they typically release. The mean percent of their responses is 61.0 percent, and this includes those 19% who *release all* their catch and 25% who *keep all* of their catch. (Note that this does not mean that 61.0% of all fish that are caught are released, because all respondents do not catch the same amount of fish.)

**Q46. Which of the following best describes your fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**



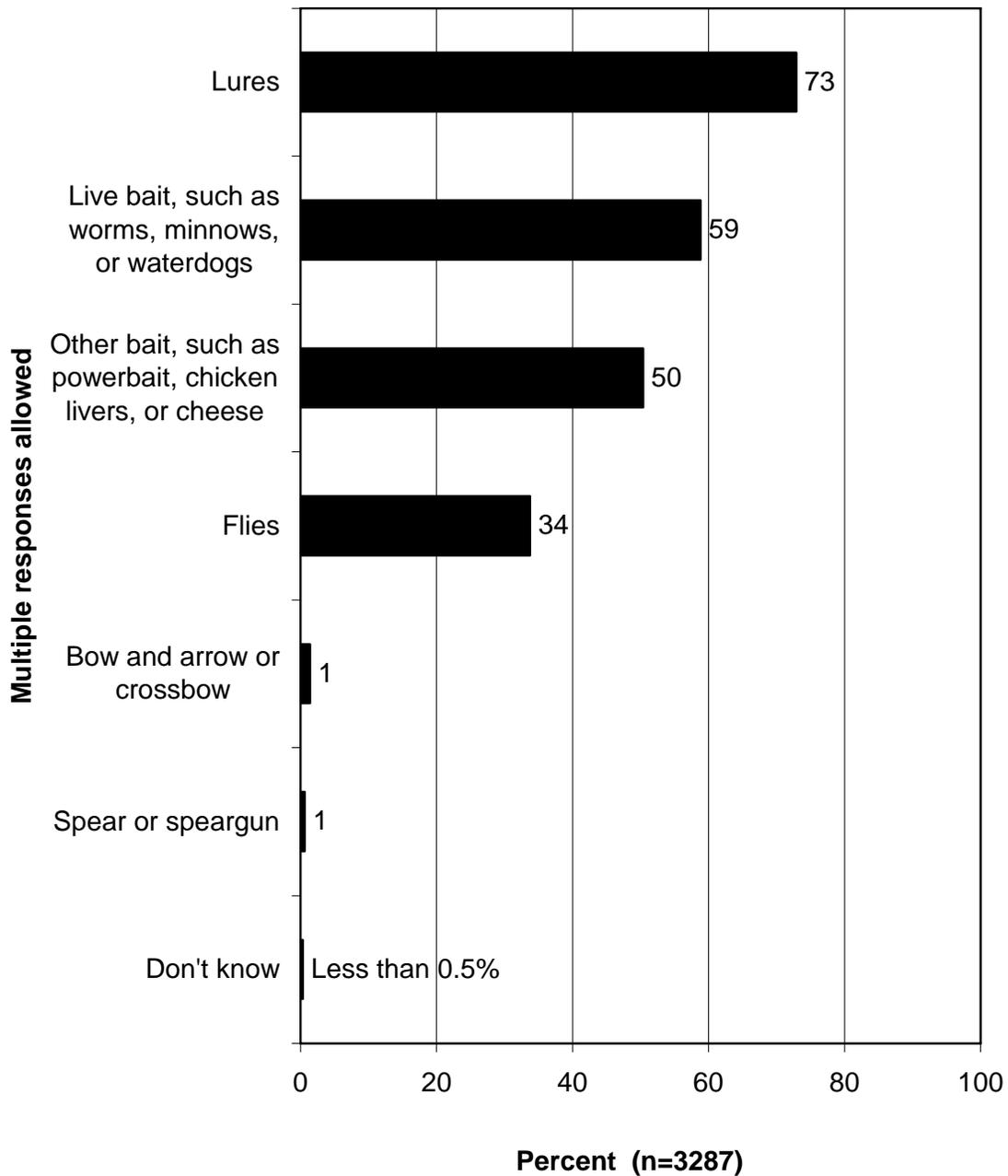
**Q46. Which of the following best describes your fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Method	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
You mostly fish for specific type of fish	56	50	58	65	56	59	69	60
You mostly fish for anything that bites	44	50	42	35	44	41	31	40

**Q46. Which of the following best describes your fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Method	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
You mostly fish for specific type of fish	51	64	61	58	53	58	52	60
You mostly fish for anything that bites	49	36	39	42	47	42	48	40

**Q84. Which of the following fishing methods have you used in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**



**Q84. Which of the following fishing methods have you used in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

Methods	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Lures	79	76	71	77	67	64	82	74
Live bait, such as worms, minnows, or waterdogs	74	63	46	65	64	84	58	58
Other bait, such as powerbait, chicken livers, or cheese	61	61	47	49	69	64	46	50
Flies	40	31	45	33	27	29	14	37
Bow and arrow or crossbow	0	2	2	0	2	2	6	1
Spear or speargun	0	1	0	0	0	0	2	1
Don't know	0	0	0	0	0	0	0	0

**Q84. Which of the following fishing methods have you used in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

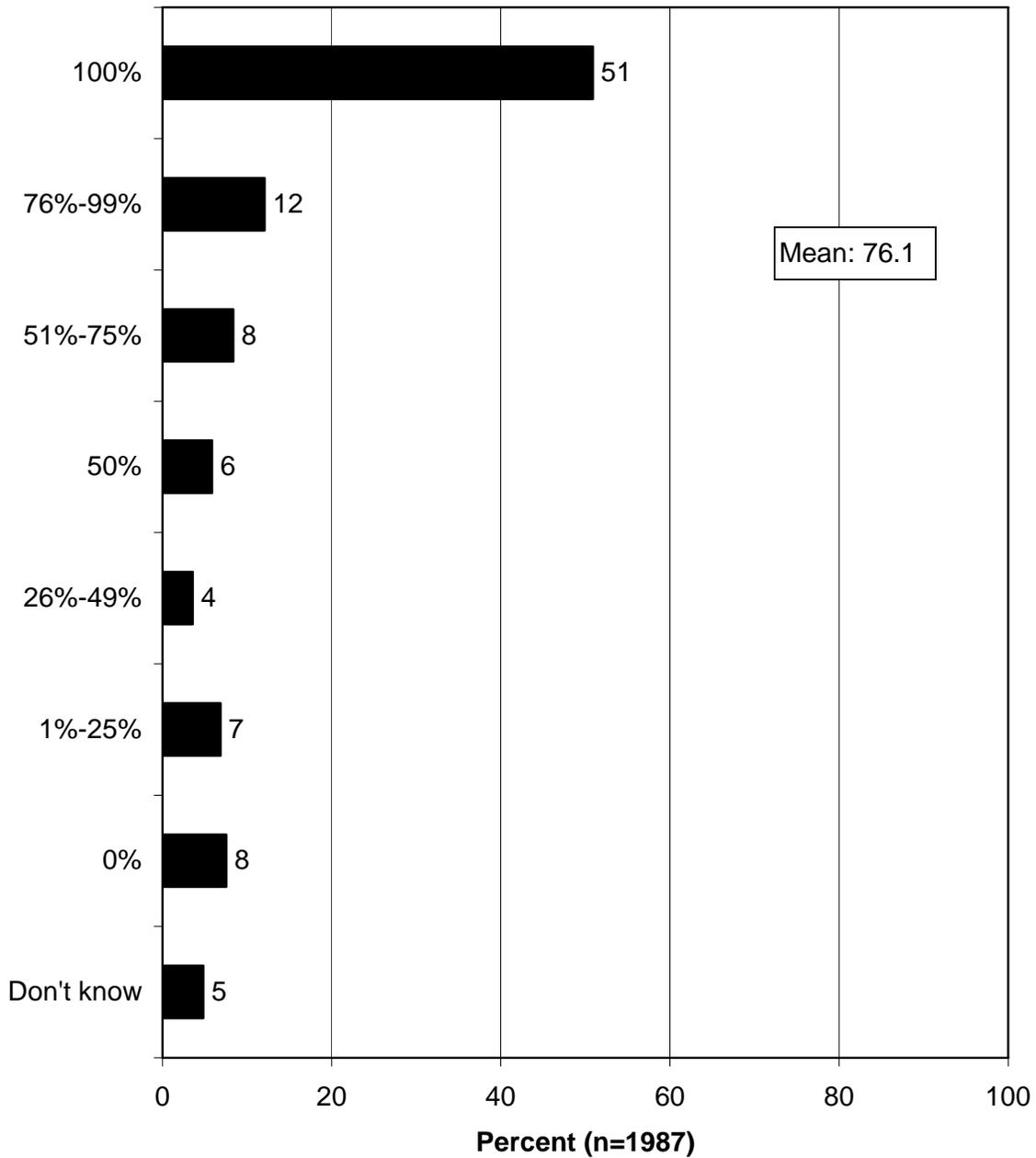
Methods	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Lures	85	78	68	71	79	79	74	59
Live bait, such as worms, minnows, or waterdogs	58	71	67	72	63	66	62	35
Other bait, such as powerbait, chicken livers, or cheese	57	54	57	49	68	59	54	25
Flies	13	43	28	29	32	40	16	30
Bow and arrow or crossbow	0	1	1	1	0	3	3	0
Spear or speargun	2	1	0	0	0	0	0	0
Don't know	0	0	1	0	0	0	0	0

**Days Fished Using Various Methods**

Species	Days Fished	Percent of Days*
<b>Total</b>	6,416,171	
<b>Lures</b>	3,137,420	48.9%
<b>Live bait</b>	1,616,442	25.2%
<b>Other bait</b>	1,434,137	22.4%
<b>Flies</b>	809,359	12.6%
<b>Spear or speargun</b>	15,376	0.2%
<b>Bow and arrow or crossbow</b>	12,300	0.2%

\*Because anglers can fish using more than one method in a day, the percents will sum to more than 100%.

**Q102. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used worms or mealworms? (Asked of those who used live bait while fishing in Arizona in 2013.)**



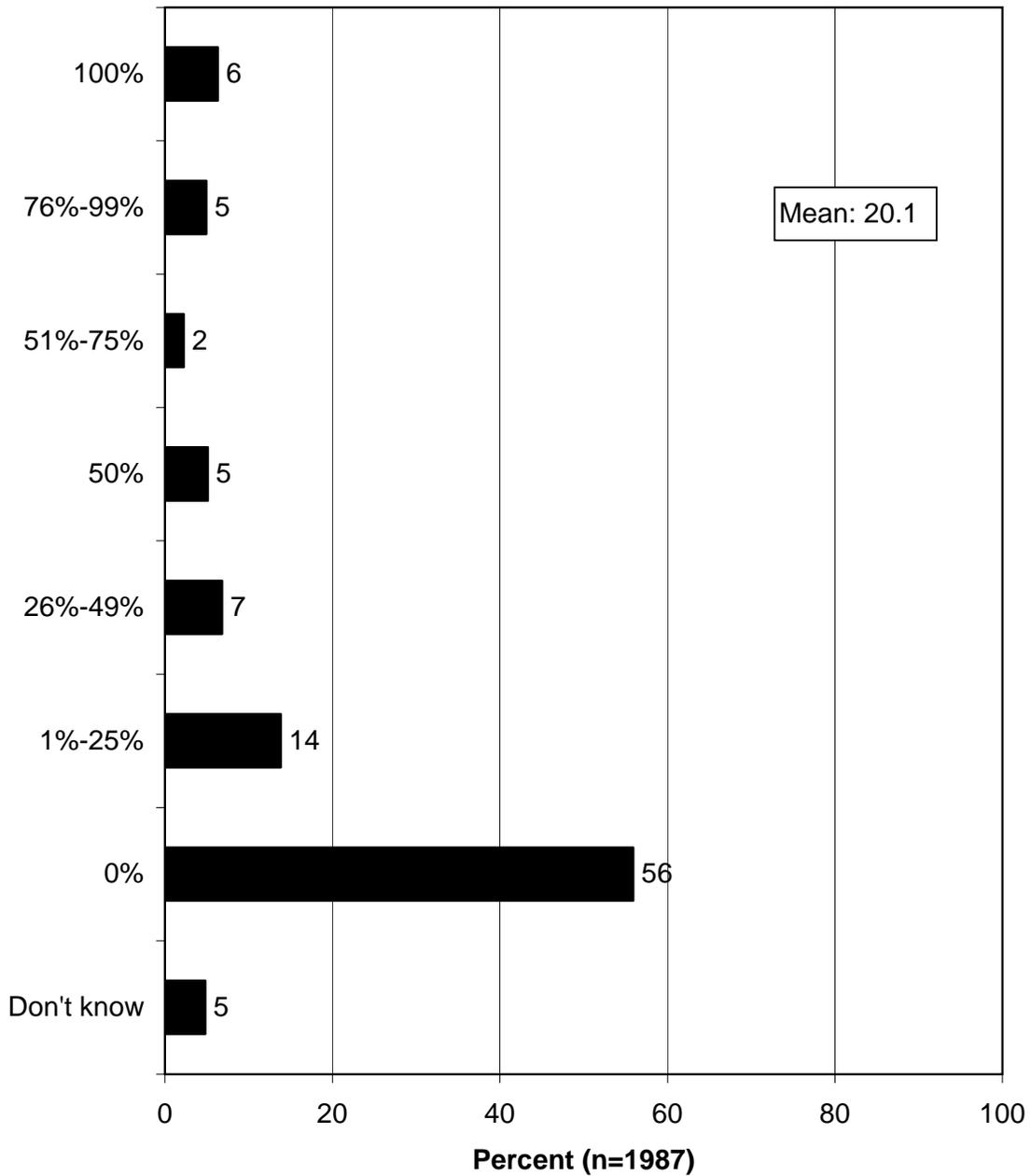
**Q102. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used worms or mealworms? (Asked of those who used live bait while fishing in Arizona in 2013.)**

Percent of Time	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
100%	54	52	50	33	56	57	17	49
76%-99%	14	14	16	9	12	8	10	12
51%-75%	8	9	6	10	6	19	7	10
50%	7	12	5	14	8	5	17	4
26%-49%	6	2	4	9	5	3	10	3
1%-25%	5	7	11	9	7	3	7	7
0%	4	3	6	10	3	3	14	8
Don't know	2	1	2	5	3	3	17	6

**Q102. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used worms or mealworms? (Asked of those who used live bait while fishing in Arizona in 2013.)**

Percent of Time	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
100%	45	57	71	52	54	49	41	33
76%-99%	17	16	5	13	13	13	22	9
51%-75%	5	7	4	11	9	7	9	3
50%	8	5	5	8	4	8	12	11
26%-49%	5	3	3	3	4	5	3	2
1%-25%	11	4	4	5	9	5	7	10
0%	5	5	5	5		7	4	25
Don't know	5	3	4	2	9	6	3	8

**Q103. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used minnows or other fish? (Asked of those who used live bait while fishing in Arizona in 2013.)**



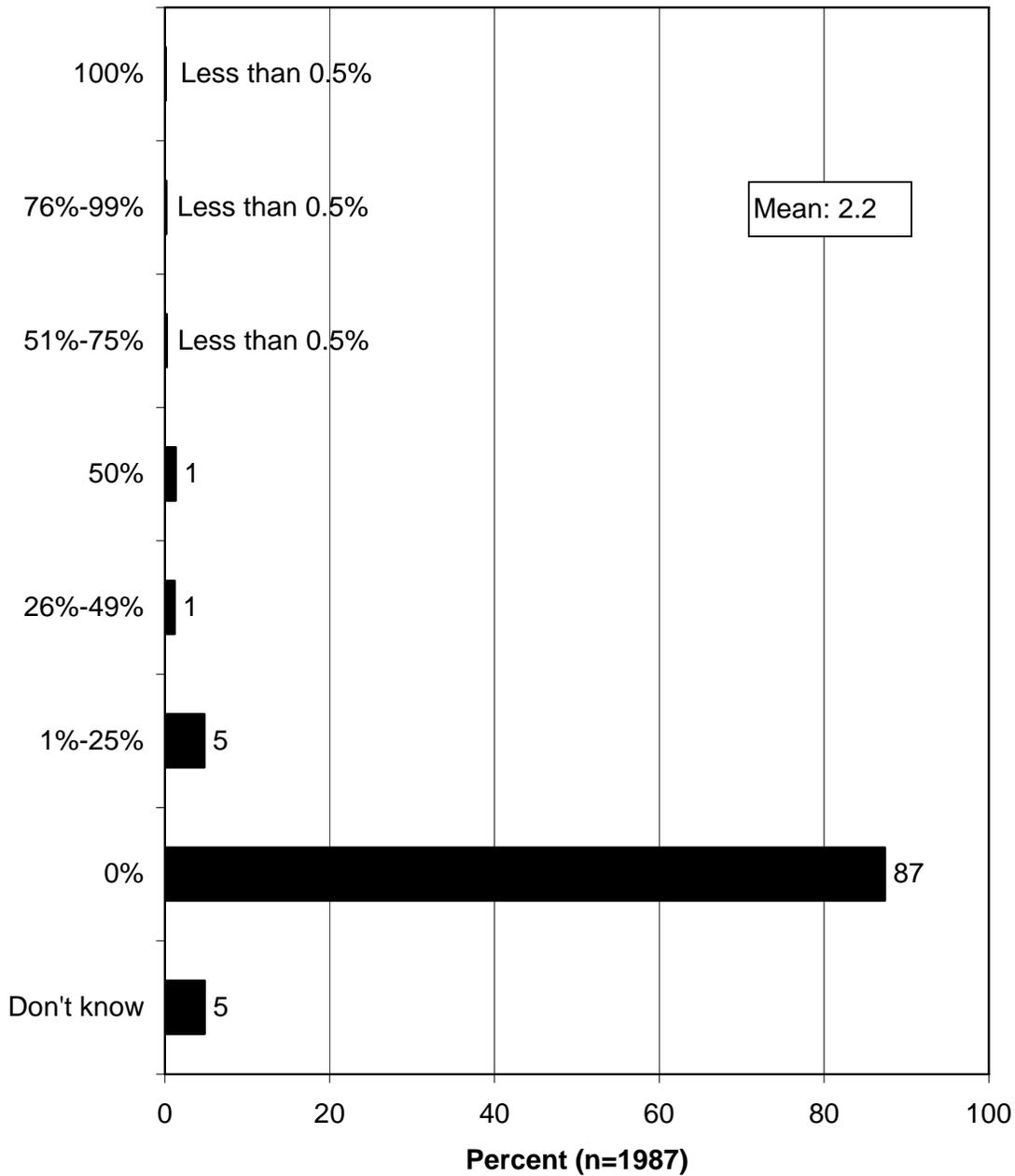
**Q103. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used minnows or other fish? (Asked of those who used live bait while fishing in Arizona in 2013.)**

Percent of Time	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
100%	2	3	4	8	2	3	7	6
76%-99%	1	2	4	6	5	3	7	6
51%-75%	1	5	4	6	6	0	10	1
50%	8	10	3	11	8	3	17	3
26%-49%	8	6	4	12	3	13	7	9
1%-25%	12	14	16	17	12	16	14	15
0%	65	59	63	35	61	60	21	54
Don't know	2	1	2	5	3	3	17	6

**Q103. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used minnows or other fish? (Asked of those who used live bait while fishing in Arizona in 2013.)**

Percent of Time	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
100%	5	4	5	3	0	6	4	24
76%-99%	10	3	2	5	4	2	5	7
51%-75%	4	3	3	1	4	2	4	3
50%	8	6	4	6	4	7	11	10
26%-49%	4	4	2	9	4	6	3	2
1%-25%	19	12	6	16	17	15	26	10
0%	46	64	75	59	59	57	45	36
Don't know	5	3	4	2	9	6	3	8

**Q104. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used waterdogs? (Asked of those who used live bait while fishing in Arizona in 2013.)**



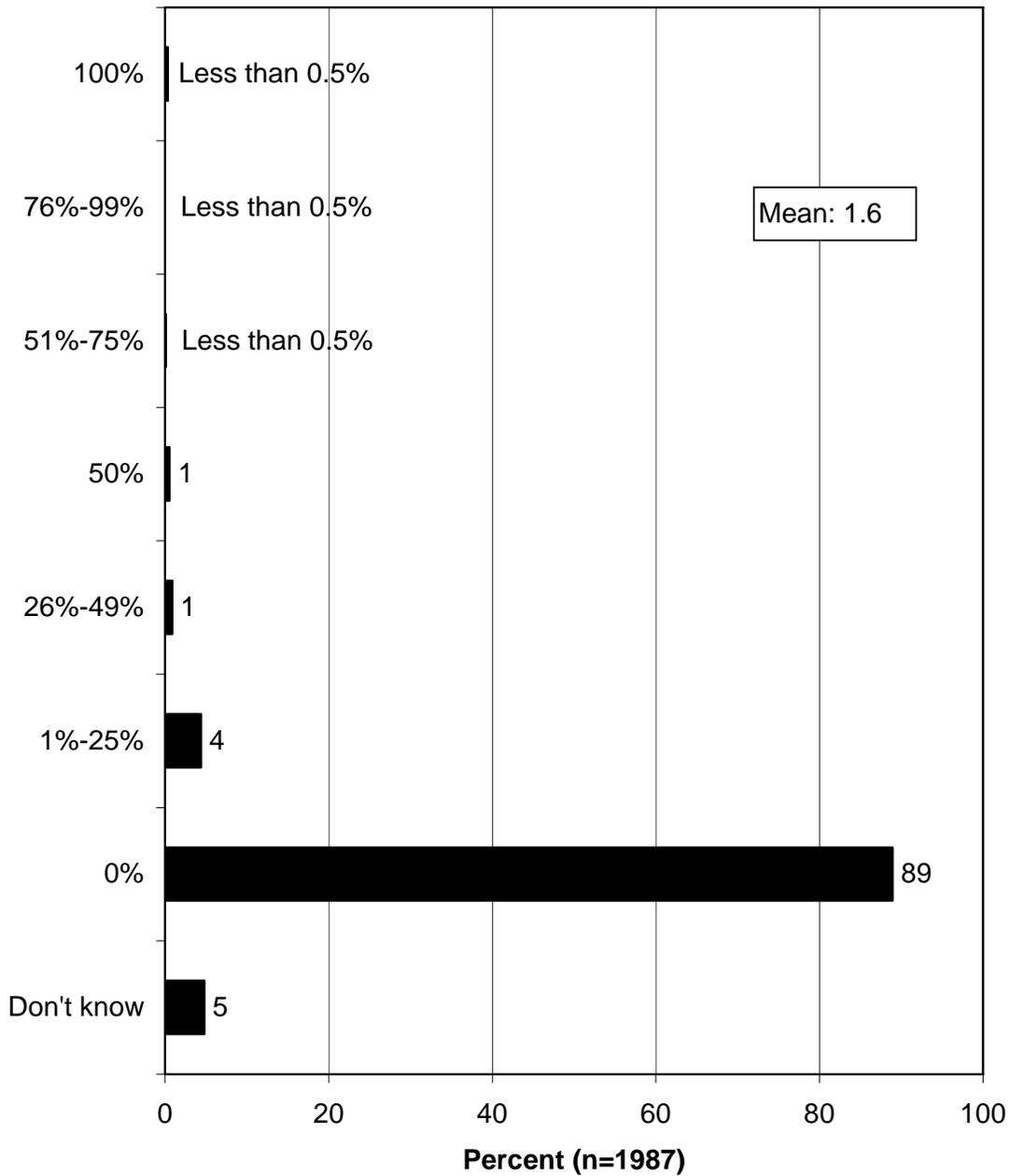
**Q104. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used waterdogs? (Asked of those who used live bait while fishing in Arizona in 2013.)**

Percent of Time	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
100%	0	0	1	0	0	0	0	0
76%-99%	0	0	1	0	0	0	0	0
51%-75%	2	0	1	1	0	0	0	0
50%	0	1	3	4	2	0	0	2
26%-49%	5	1	1	1	0	0	3	2
1%-25%	15	5	13	12	5	5	7	3
0%	75	92	79	78	90	92	72	88
Don't know	2	1	2	5	3	3	17	6

**Q104. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used waterdogs? (Asked of those who used live bait while fishing in Arizona in 2013.)**

Percent of Time	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
100%	0	0	0	1	0	1	0	0
76%-99%	0	0	1	0	0	1	0	0
51%-75%	0	1	0	1	0	1	0	0
50%	0	1	0	2	0	1	1	0
26%-49%	2	0	0	1	0	1	2	0
1%-25%	0	8	2	13	0	8	5	1
0%	94	87	93	80	91	83	90	91
Don't know	5	3	4	2	9	6	3	8

**Q105. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used crickets? (Asked of those who used live bait while fishing in Arizona in 2013.)**



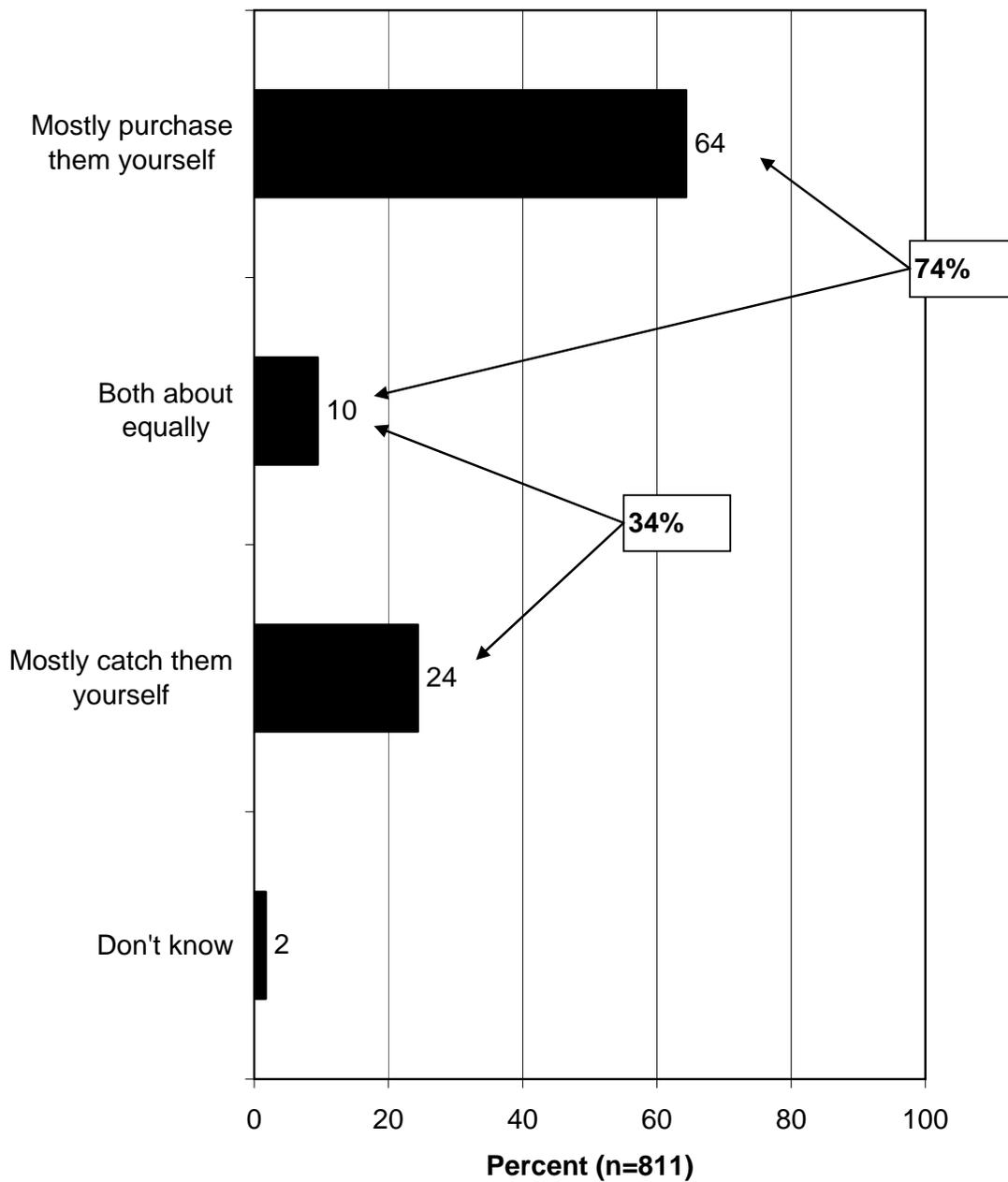
**Q105. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used crickets? (Asked of those who used live bait while fishing in Arizona in 2013.)**

Percent of Time	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
100%	0	0	1	0	0	0	3	0
76%-99%	0	1	0	0	0	0	0	0
51%-75%	0	0	0	0	0	0	0	0
50%	0	0	1	0	0	0	0	0
26%-49%	0	0	1	1	0	0	3	1
1%-25%	9	9	10	7	9	3	3	3
0%	88	89	86	88	87	95	72	89
Don't know	2	1	2	5	3	3	17	6

**Q105. What percentage of the time you used live bait while fishing in Arizona in 2013 have you used crickets? (Asked of those who used live bait while fishing in Arizona in 2013.)**

Percent of Time	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
100%	0	0	0	0	0	0	0	2
76%-99%	0	0	0	0	0	0	1	0
51%-75%	0	0	0	0	0	1	0	0
50%	0	0	1	1	0	2	1	1
26%-49%	1	1	0	0	9	1	0	0
1%-25%	5	7	2	8	4	8	3	3
0%	89	89	92	90	79	84	92	86
Don't know	5	3	4	2	9	6	3	8

**Q108. When you fished using minnows or other fish for live bait in Arizona in 2013, did you...?  
(Asked of those who used minnows or other fish for live bait while fishing in Arizona in 2013.)**



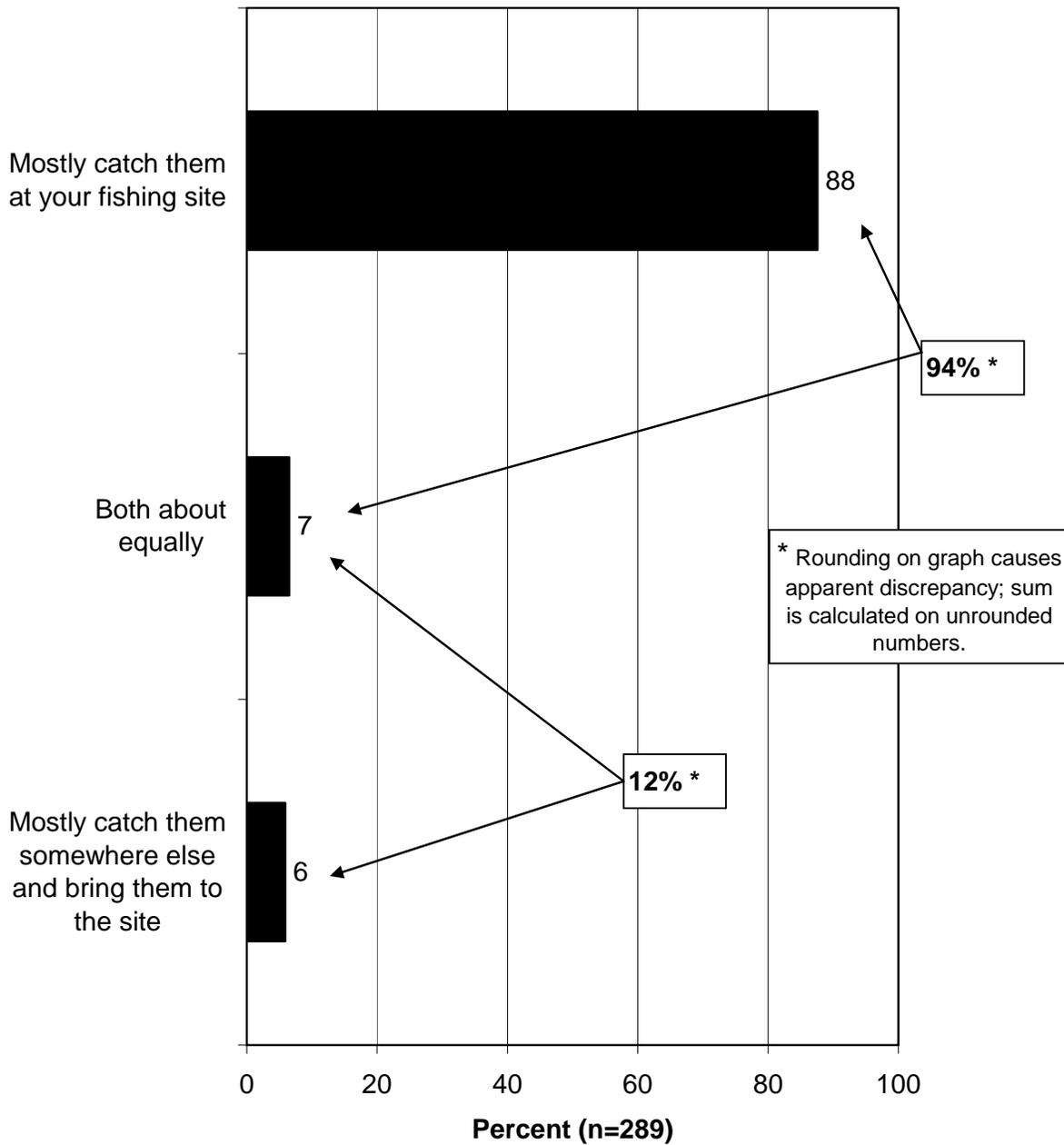
**Q108. When you fished using minnows or other fish for live bait in Arizona in 2013, did you...? (Asked of those who used minnows or other fish for live bait while fishing in Arizona in 2013.)**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Mostly purchase them yourself	68	60	67	86	58	29	37	66
Both about equally	11	5	8	8	19	29	16	10
Mostly catch them yourself	21	30	20	6	22	43	47	22
Don't know	0	5	5	0	0	0	0	2

**Q108. When you fished using minnows or other fish for live bait in Arizona in 2013, did you...? (Asked of those who used minnows or other fish for live bait while fishing in Arizona in 2013.)**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Mostly purchase them yourself	47	87	65	71	62	54	27	71
Both about equally	4	5	5	19	12	18	7	4
Mostly catch them yourself	49	8	25	9	26	28	66	22
Don't know	0	0	4	1	0	0	0	3

**Q109. When you fished using minnows or other fish you caught for live bait in Arizona in 2013, did you...? (Asked of those who caught minnows or other fish for live bait at least half the time while fishing in Arizona in 2013.)**



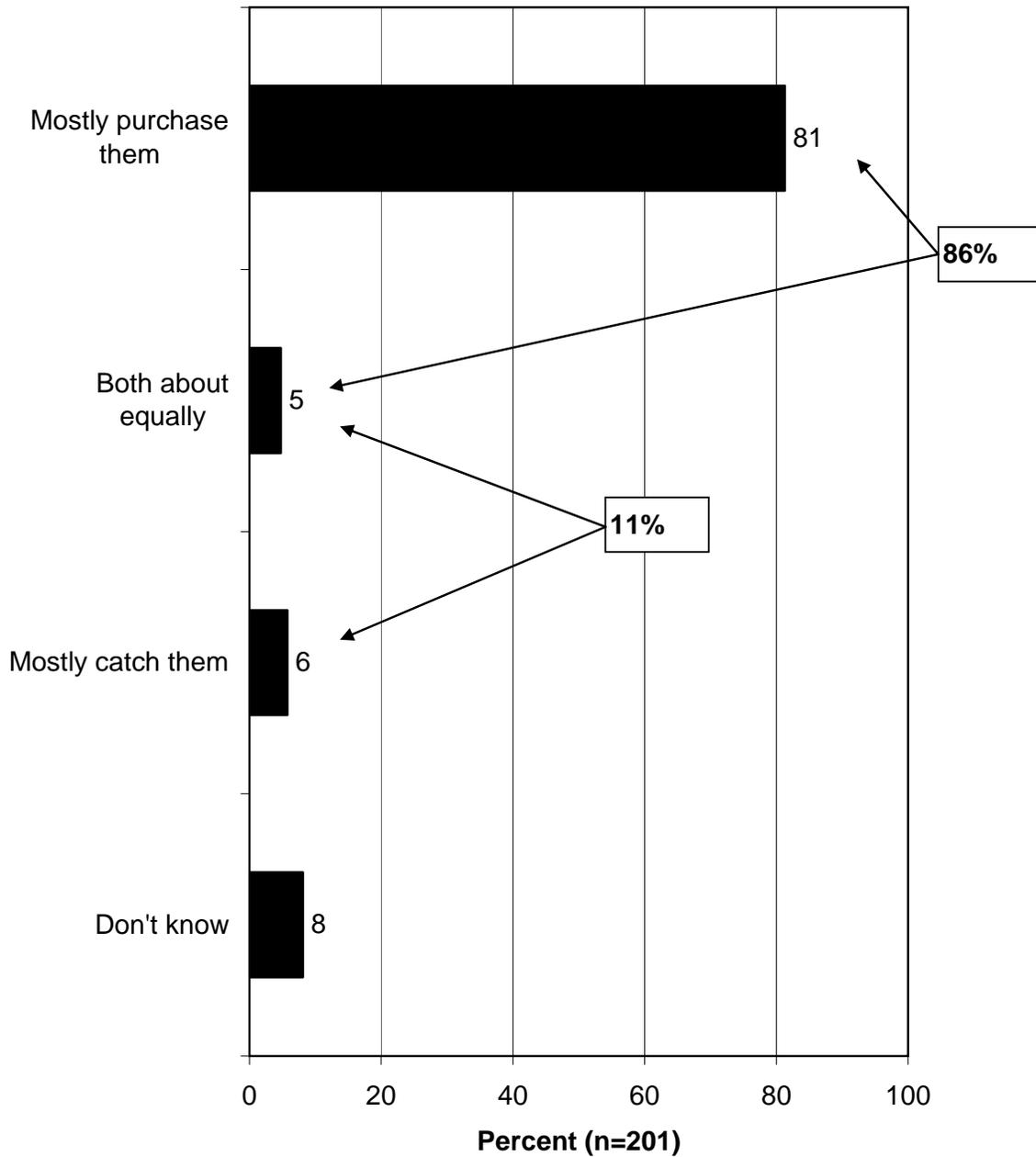
**Q109. When you fished using minnows or other fish you caught for live bait in Arizona in 2013, did you...? (Asked of those who caught minnows or other fish for live bait at least half the time while fishing in Arizona in 2013.)**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Mostly catch them at your fishing site	56	100	82	84	77	80	50	94
Both about equally	11	0	0	8	15	10	16	3
Mostly catch them somewhere else and bring them to the site	33	0	18	8	7	10	34	3

**Q109. When you fished using minnows or other fish you caught for live bait in Arizona in 2013, did you...? (Asked of those who caught minnows or other fish for live bait at least half the time while fishing in Arizona in 2013.)**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Mostly catch them at your fishing site	79	100	94	90	100	80	75	84
Both about equally	7	0	6	5	0	17	12	16
Mostly catch them somewhere else and bring them to the site	14	0	0	5	0	3	14	0

**Q110. When you fished using waterdogs for live bait, did you...? (Asked of those who used waterdogs for live bait while fishing in Arizona in 2013.)**



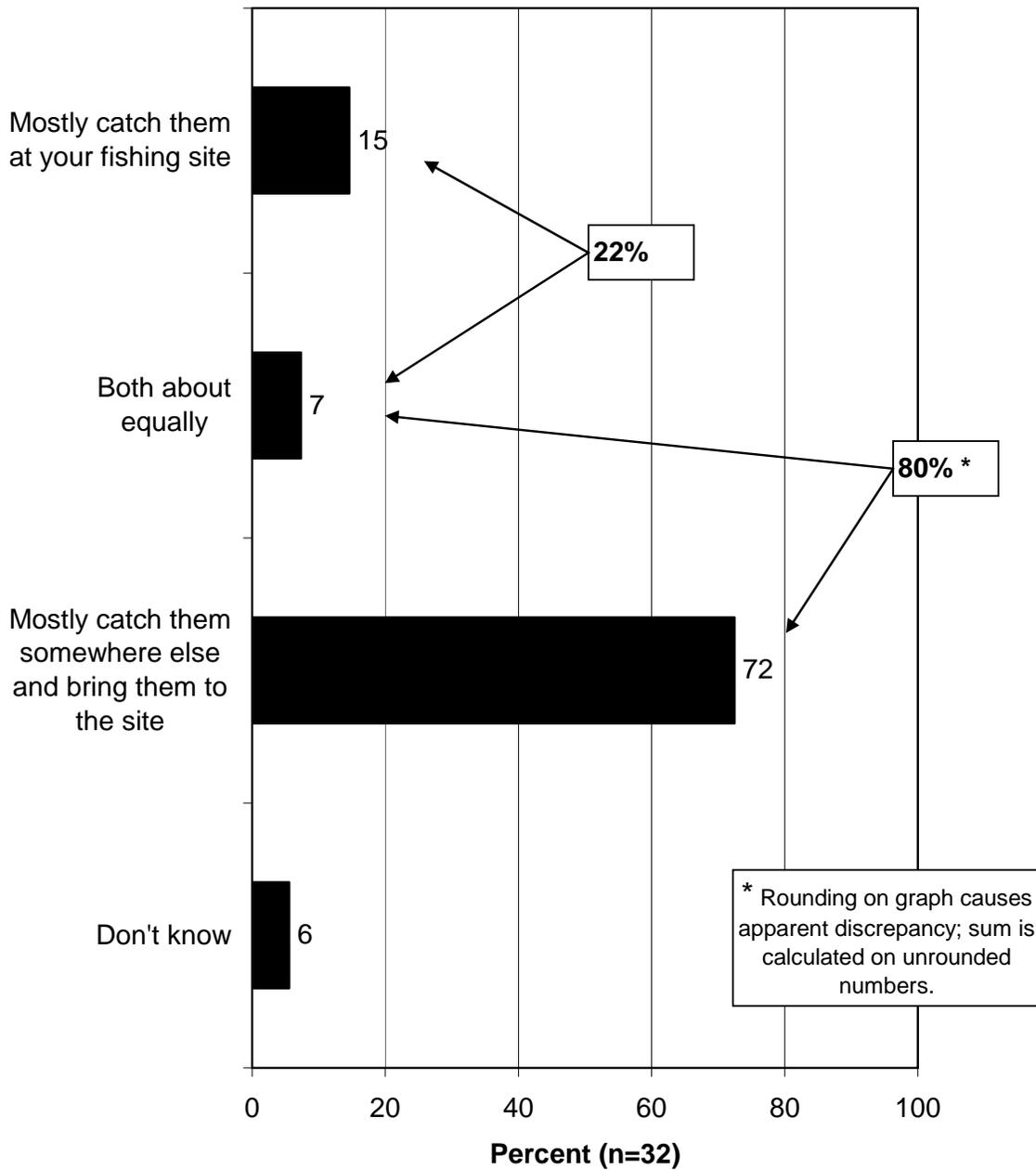
**Q110. When you fished using waterdogs for live bait, did you...? (Asked of those who used waterdogs for live bait while fishing in Arizona in 2013.)**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Mostly purchase them	26	86	82	81	50	50	67	84
Both about equally	11	0	9	0	0	0	0	5
Mostly catch them	63	0	4	4	50	0	0	0
Don't know	0	14	4	15	0	50	33	11

**Q110. When you fished using waterdogs for live bait, did you...? (Asked of those who used waterdogs for live bait while fishing in Arizona in 2013.)**

	Mohave	Navajo	Pima	Pinal	Yavapai	Yuma	Out-of-State
Mostly purchase them	25	60	100	97	90	100	50
Both about equally	25	15	0	0	0	0	0
Mostly catch them	0	25	0	3	10	0	0
Don't know	50	0	0	0	0	0	50

**Q111. When you fished using waterdogs you caught for live bait in Arizona in 2013, did you...?  
(Asked of those who caught waterdogs for live bait at least half the time while fishing in Arizona in 2013.)**

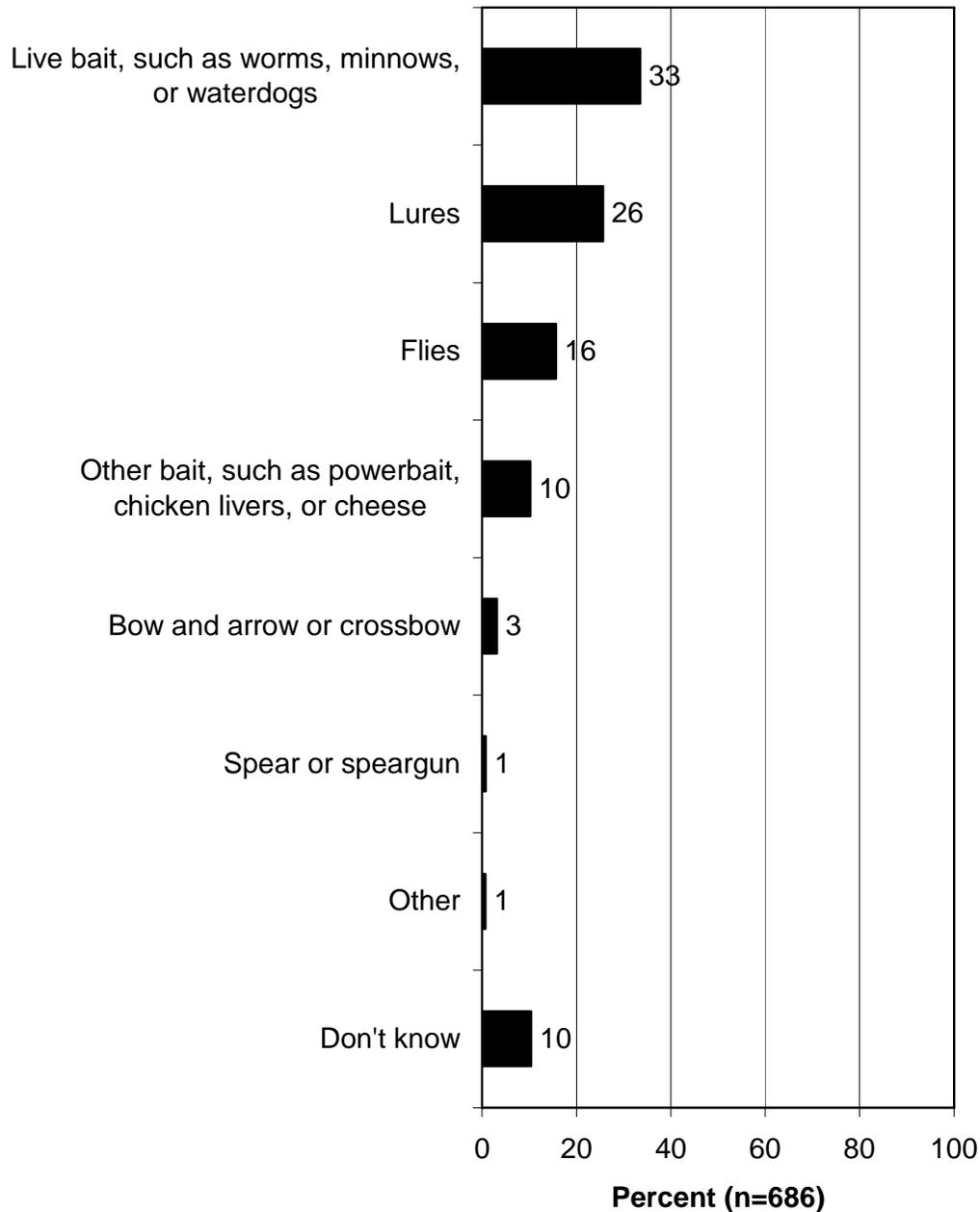


**Q111. When you fished using waterdogs you caught for live bait in Arizona in 2013, did you...? (Asked of those who caught waterdogs for live bait at least half the time while fishing in Arizona in 2013.)**

	Apache	Coconino	Gila	Graham	Maricopa	Mohave	Navajo	Pinal	Yavapai
Mostly catch them at your fishing site	14	0	0	68	0	100	17	0	0
Both about equally	14	33	0	0	0	0	0	0	0
Mostly catch them somewhere else and bring them to the site	64	33	100	32	100	0	83	100	100
Don't know	7	33	0	0	0	0	0	0	0

Note: Some counties had no respondents who fished using waterdogs that they had caught; for this reason, not all counties are included in this tabulation.

**Q113. Which one of the following methods of fishing would you most prefer to see more fishing opportunities for in Arizona? (Asked of those who personally fished in Arizona in 2013.)**



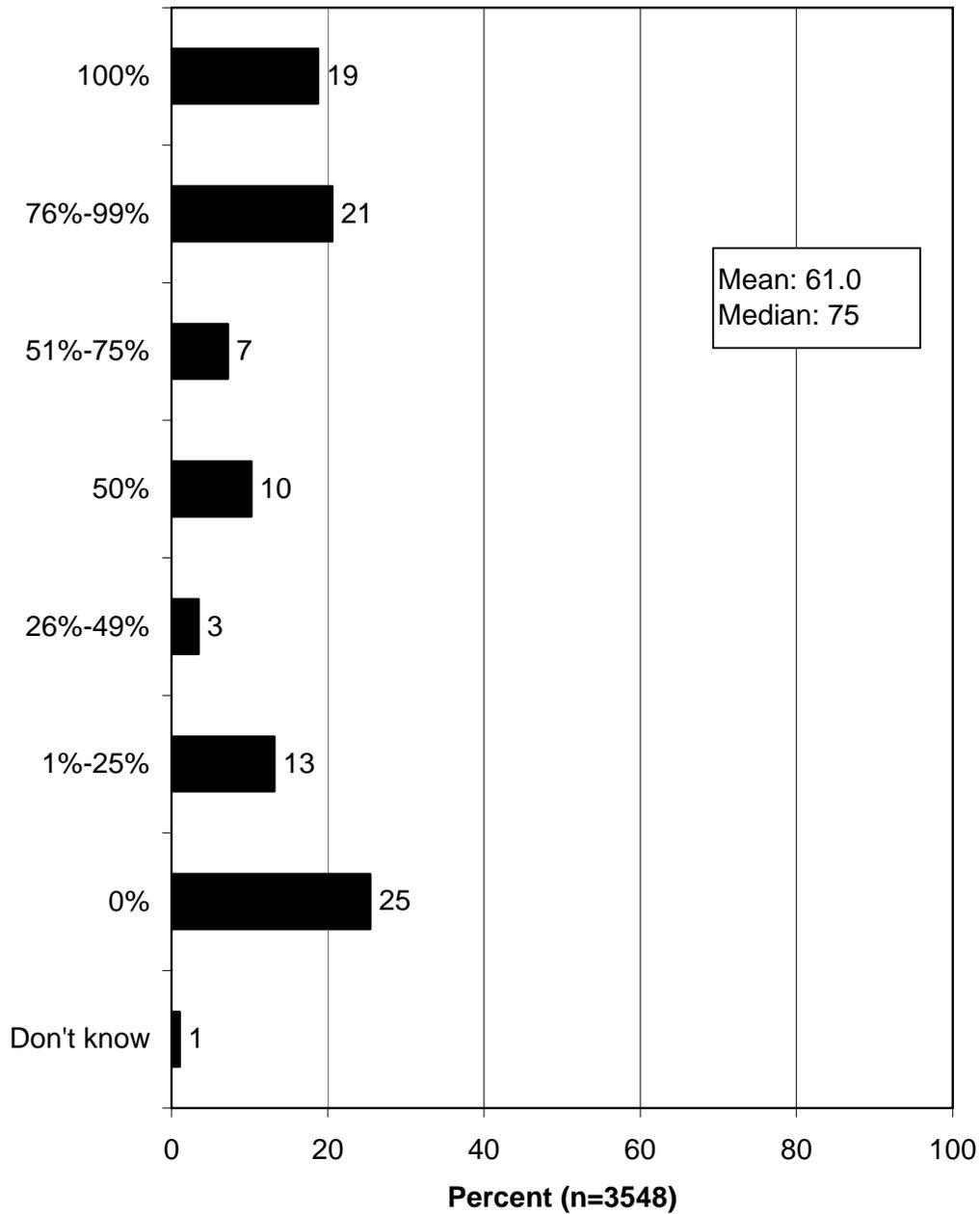
**Q113. Which one of the following methods of fishing would you most prefer to see more fishing opportunities for in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Method	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Live bait, such as worms, minnows, or waterdogs	48	29	18	39	37	44	51	37
Lures	12	34	38	29	29	11	37	21
Flies	12	17	25	10	8	22	0	15
Other bait, such as powerbait, chicken livers, or cheese	8	10	9	10	12	0	0	10
Bow and arrow or crossbow	0	2	0	0	3	22	0	4
Spear or speargun	0	0	1	0	0	0	0	1
Other	0	0	1	0	3	0	0	0
Don't know	20	7	7	12	8	0	12	11

**Q113. Which one of the following methods of fishing would you most prefer to see more fishing opportunities for in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Method	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Live bait, such as worms, minnows, or waterdogs	30	37	32	38	42	28	29	27
Lures	39	24	22	27	8	26	34	33
Flies	2	22	18	17	34	10	10	20
Other bait, such as powerbait, chicken livers, or cheese	14	7	13	6	0	16	10	10
Bow and arrow or crossbow	2	0	3	4	0	4	10	0
Spear or speargun	0	0	0	0	8	0	0	0
Other	5	0	1	0	0	0	2	1
Don't know	9	10	11	8	8	16	5	9

**Q45. Approximately what percentage of all the fish you catch do you release back into the water when fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**



**Q45. Approximately what percentage of all the fish you catch do you release back into the water when fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Percent released	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
100%	9	15	14	11	10	4	18	21
76%-99%	18	12	18	19	14	21	25	23
51%-75%	9	6	9	6	11	9	7	7
50%	8	10	10	12	14	13	11	9
26%-49%	1	5	2	4	7	9	4	3
1%-25%	25	14	13	12	20	17	14	11
0%	28	36	33	36	22	28	18	24
Don't know	1	3	0	0	3	0	2	1

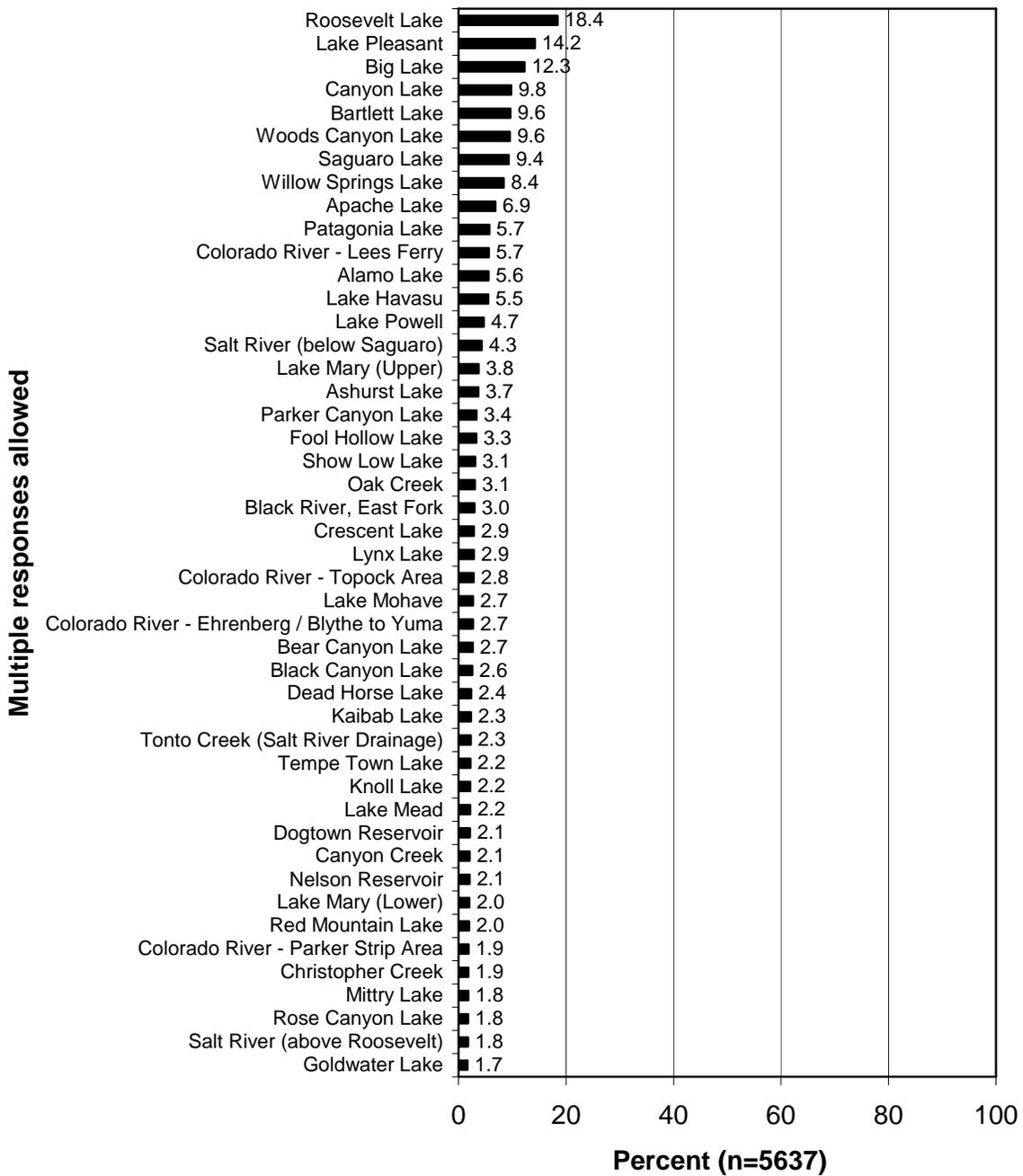
**Q45. Approximately what percentage of all the fish you catch do you release back into the water when fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Percent released	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
100%	13	7	16	10	16	13	19	37
76%-99%	20	13	23	16	31	17	21	17
51%-75%	8	9	7	7	10	8	9	5
50%	8	13	12	12	12	12	10	9
26%-49%	4	3	4	7	4	3	3	1
1%-25%	19	24	13	17	4	16	11	10
0%	25	30	22	29	22	29	27	18
Don't know	1	1	2	2	2	1	1	3

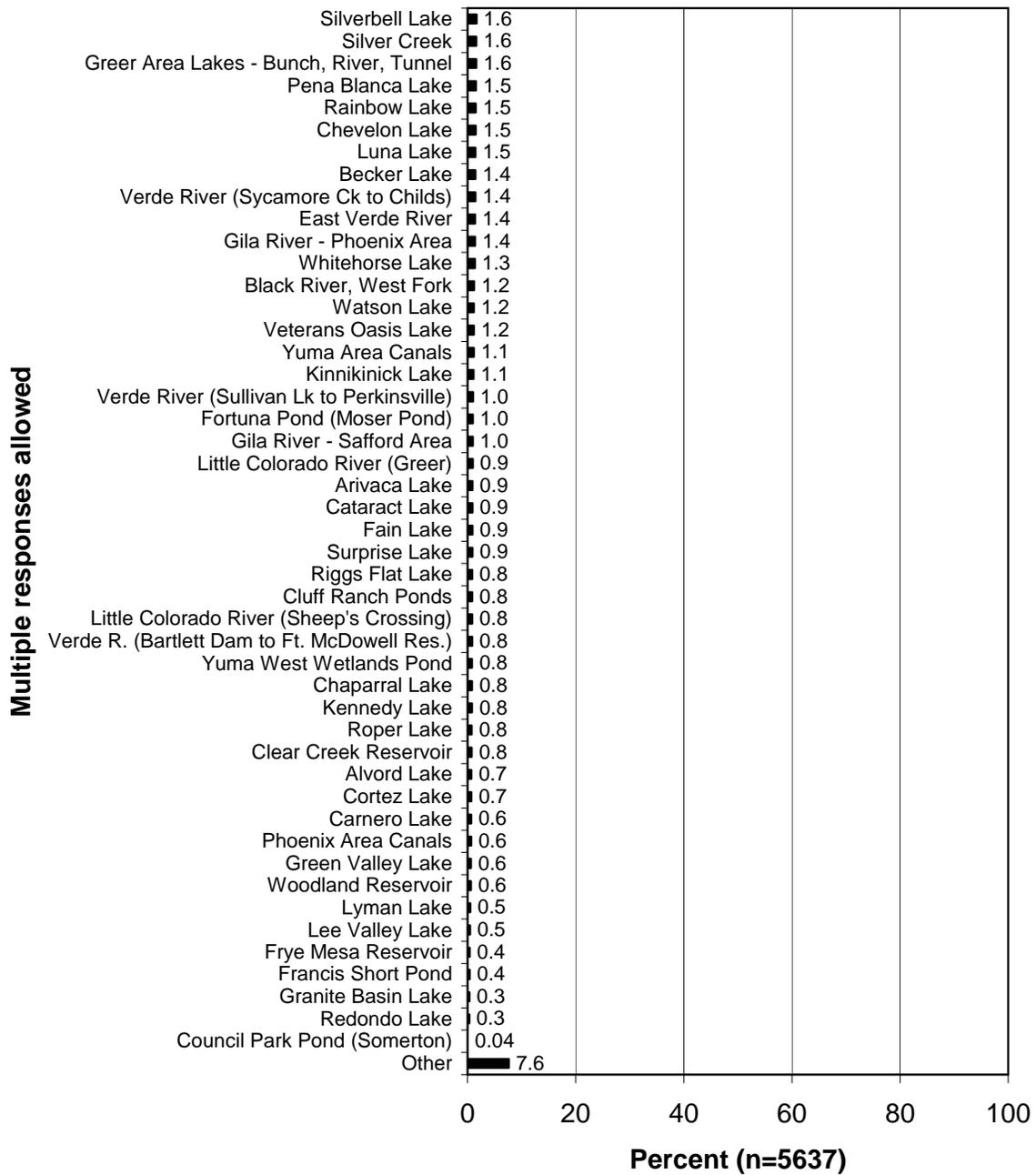
## FISHING LOCATIONS

- Seven locations had nearly 10% or more of active anglers fishing there at some point in 2013: Roosevelt Lake (18.4%), Lake Pleasant (14.2%), Big Lake (12.3%), Canyon Lake (9.8%), Bartlett Lake (9.6%), Woods Canyon Lake (9.6%), and Saguaro Lake (9.4%). (Note that respondents could give multiple responses; they were asked to name all the locations in which they had fished in Arizona in 2013.)
  - The survey then asked active anglers to name the most recent location they visited. Those bodies named above are the top water bodies “last visited,” albeit in a slightly different order.
    - Graphs are shown with the bodies of water ranked from most popular to least; these are followed by the locations in alphabetical order for those readers seeking information about a specific body of water.
- A tabulation shows the mean and median number of days fishing at various locations and the mean and median number of trips taken to those locations.

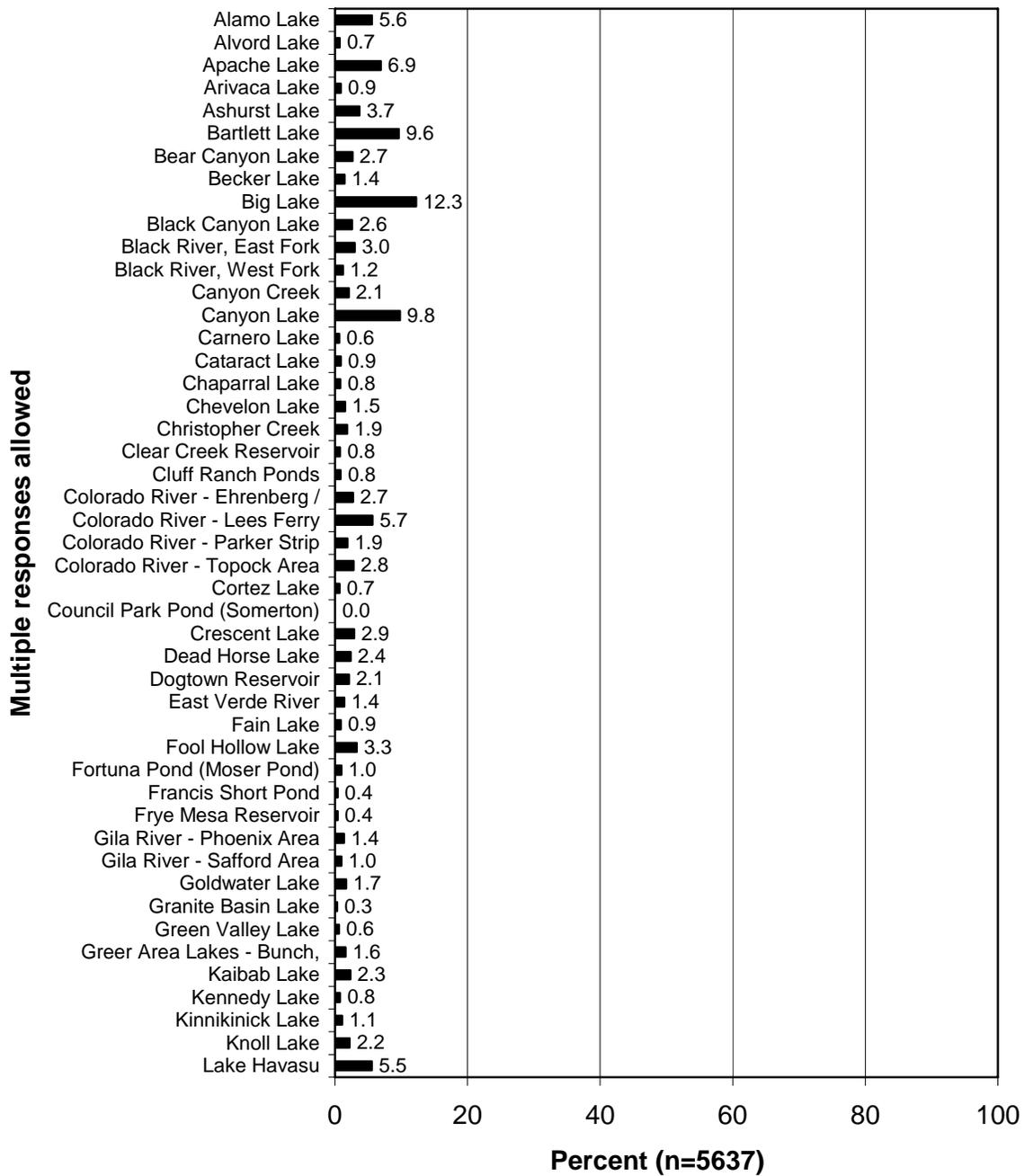
**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.) (Part 1.)**



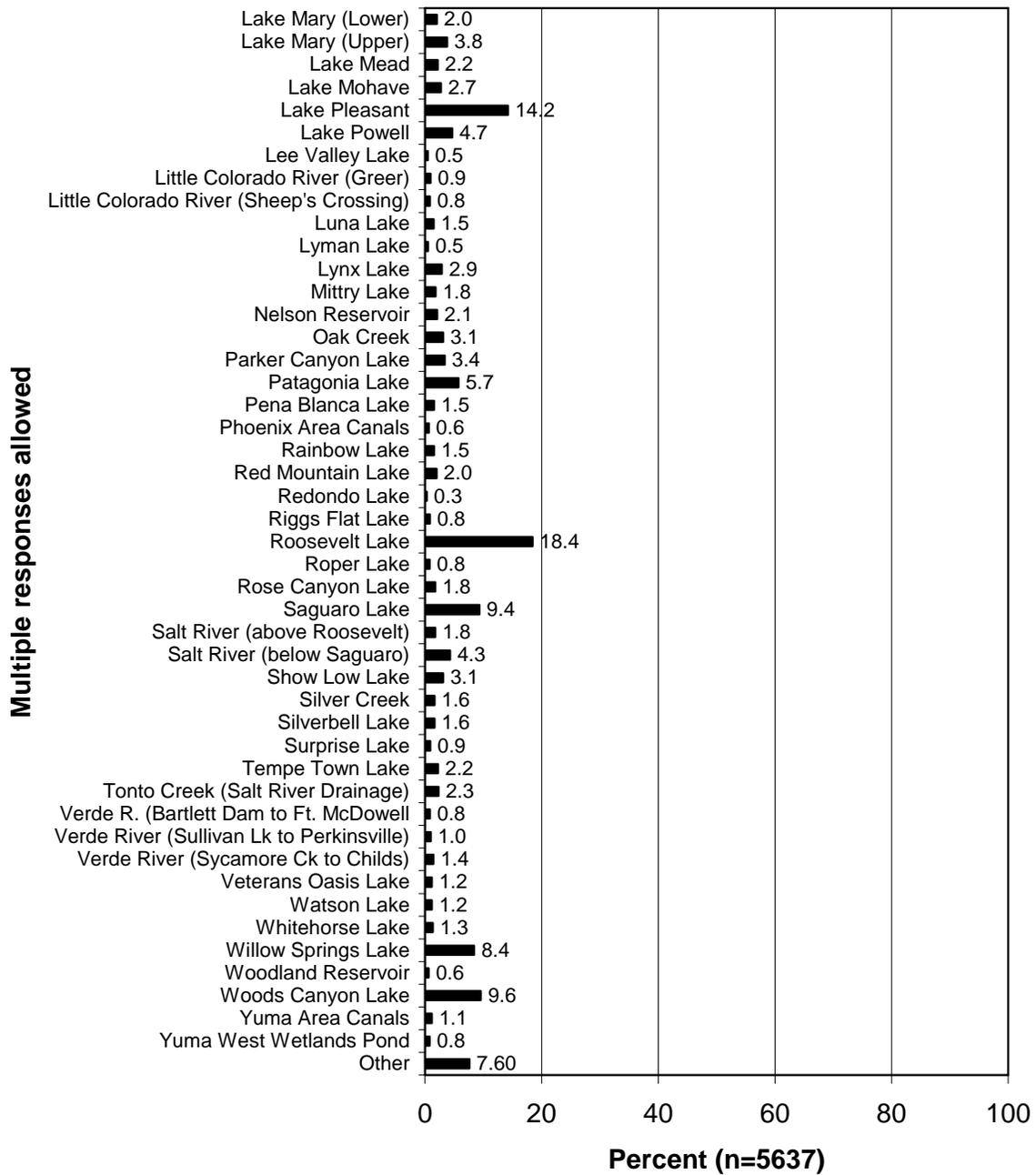
**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.) (Part 2.)**



**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.)**  
**(Part 1, alphabetically.)**



**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.) (Part 2, alphabetically.)**





**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.) (Part 2, alphabetically.)**

<b>Bodies of Water</b>	<b>Apache</b>	<b>Cochise</b>	<b>Cocoino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
Granite Basin Lake	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
Green Valley Lake	0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.3
Greer Area Lakes – Bunch, River, Tunnel	12.6	2.1	0.7	2.1	1.2	1.3	0.0	1.2
Kaibab Lake	0.0	0.0	16.9	0.0	0.0	0.0	2.7	1.2
Kennedy Lake	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0
Kinnikinick Lake	0.0	0.0	7.2	0.0	0.0	0.0	0.0	1.1
Knoll Lake	0.0	0.6	1.4	5.2	0.0	0.0	0.0	3.6
Lake Havasu	1.0	2.4	1.9	0.9	0.8	0.0	44.5	2.3
Lake Mary (Lower)	0.0	0.6	15.0	0.0	0.0	0.0	1.4	1.7
Lake Mary (Upper)	0.5	1.8	29.4	1.5	0.0	0.0	0.0	2.0
Lake Mead	0.5	0.3	1.0	0.0	0.0	0.0	2.7	0.8
Lake Mohave	0.0	0.0	0.5	0.0	0.8	0.0	2.7	0.8
Lake Pleasant	3.4	2.7	3.6	2.1	0.8	1.3	0.0	24.4
Lake Powell	2.9	0.6	29.4	2.4	2.9	1.3	1.4	3.8
Lee Valley Lake	1.9	1.8	1.2	0.6	0.0	0.0	0.0	0.5
Little Colorado River (Greer)	2.4	0.3	0.5	0.6	0.4	0.0	0.0	0.9
Little Colorado River (Sheep's Crossing)	1.9	1.5	0.0	0.6	1.7	0.0	0.0	0.8
Luna Lake	12.1	6.3	0.5	1.8	14.2	43.3	0.0	0.6
Lyman Lake	21.3	0.6	0.5	0.0	0.4	2.7	0.0	0.3
Lynx Lake	0.0	0.3	0.0	0.0	0.0	0.0	0.0	2.4
Mittry Lake	0.5	0.0	0.0	0.0	0.8	0.0	4.1	0.2
Nelson Reservoir	42.5	5.1	0.2	0.9	12.9	32.5	0.0	1.1
Oak Creek	0.0	0.6	11.5	0.3	0.4	0.0	0.0	3.2
Parker Canyon Lake	0.0	62.6	0.5	0.0	0.8	0.0	0.0	0.2
Patagonia Lake	0.5	52.7	0.5	0.0	1.2	1.3	0.0	0.5
Pena Blanca Lake	0.0	3.3	0.0	0.0	0.4	0.0	0.0	0.3
Phoenix Area Canals	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.1
Rainbow Lake	2.4	0.9	0.7	0.6	0.8	0.0	0.0	1.1
Red Mountain Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Redondo Lake	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Riggs Flat Lake	1.0	6.6	0.0	0.0	31.7	12.1	0.0	0.2
Roosevelt Lake	30.0	16.8	16.5	62.5	27.9	12.1	5.6	17.4
Roper Lake	0.5	7.2	0.0	0.6	22.1	10.8	0.0	0.2
Rose Canyon Lake	0.5	1.2	0.0	0.6	0.0	0.0	0.0	0.3
Saguaro Lake	1.4	1.5	0.5	3.1	1.7	0.0	0.0	16.5
Salt River (above Roosevelt)	5.3	2.1	0.0	7.6	2.5	2.7	0.0	1.5
Salt River (below Saguaro)	1.0	0.0	0.5	1.8	0.0	0.0	0.0	7.7
Show Low Lake	7.7	2.1	0.2	0.9	2.5	0.0	0.0	1.7

**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.) (Part 3, alphabetically.)**

<b>Bodies of Water</b>	<b>Apache</b>	<b>Cochise</b>	<b>Cocoino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
Silver Creek	1.0	1.2	0.7	1.2	0.8	0.0	0.0	1.4
Silverbell Lake	0.0	1.2	0.0	0.3	0.0	0.0	0.0	0.0
Surprise Lake	0.5	0.6	0.0	0.6	0.0	0.0	0.0	1.5
Tempe Town Lake	0.0	0.0	0.2	0.0	0.0	0.0	1.4	4.2
Tonto Creek (Salt River Drainage)	0.0	0.3	0.5	11.0	0.0	0.0	0.0	3.6
Verde River (Bartlett Dam to Fort McDowell Indian Reservation)	0.0	0.3	0.2	0.9	0.8	0.0	0.0	1.1
Verde River (Sullivan Lake to Perkinsville)	0.0	0.0	1.0	0.9	0.0	0.0	0.0	0.6
Verde River (Sycamore Ck to Childs)	0.0	0.0	2.6	0.6	0.0	0.0	0.0	1.2
Veterans Oasis Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Watson Lake	0.0	0.3	0.7	0.0	0.0	0.0	0.0	0.6
Whitehorse Lake	0.0	0.3	7.2	0.3	0.0	0.0	4.1	0.8
Willow Springs Lake	1.9	1.2	0.7	29.9	0.4	0.0	0.0	12.9
Woodland Reservoir	1.0	0.0	0.2	0.3	0.0	0.0	0.0	0.5
Woods Canyon Lake	1.9	1.2	1.2	21.3	0.8	1.3	0.0	15.6
Yuma Area Canals	0.0	0.3	0.0	0.3	0.0	0.0	1.4	0.2
Yuma West Wetlands Pond	0.0	0.3	0.2	0.0	0.0	1.3	1.4	0.3
Other	6.3	5.7	9.3	7.3	9.1	32.5	5.6	7.7

**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.) (Part 1, alphabetically.)**

<b>Bodies of Water</b>	<b>Mohave</b>	<b>Navajo</b>	<b>Pima</b>	<b>Pinal</b>	<b>Santa Cruz</b>	<b>Yavapai</b>	<b>Yuma</b>	<b>Out-of-State</b>
Alamo Lake	8.1	0.3	1.7	3.4	1.4	13.1	7.0	5.2
Alvord Lake	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.7
Apache Lake	0.5	4.8	11.2	13.7	7.0	3.7	1.0	1.7
Arivaca Lake	0.0	0.0	6.5	1.0	7.0	0.0	0.0	0.5
Ashurst Lake	1.6	2.5	1.2	1.7	0.0	8.5	0.2	0.3
Bartlett Lake	0.5	1.0	1.2	6.4	1.4	9.0	0.2	3.7
Bear Canyon Lake	0.0	4.8	1.7	4.9	0.0	1.1	0.5	0.0
Becker Lake	0.0	6.8	2.3	1.2	0.0	0.2	0.5	1.3
Big Lake	3.5	42.2	19.6	17.6	11.2	7.9	2.7	3.7
Black Canyon Lake	0.0	7.8	1.0	4.2	0.0	0.4	1.0	0.0
Black River, East Fork	0.3	6.8	4.7	2.7	1.4	1.3	0.7	0.8
Black River, West Fork	0.0	5.3	2.8	1.5	0.0	1.3	0.2	0.5
Canyon Creek	0.0	1.8	0.2	2.4	1.4	0.7	0.2	0.3
Canyon Lake	0.0	0.5	5.0	24.0	0.0	0.9	0.7	3.4
Carnero Lake	0.3	2.0	0.7	0.5	0.0	0.0	0.0	0.0
Cataract Lake	1.9	0.0	0.0	0.2	0.0	4.6	0.0	0.2
Chaparral Lake	0.0	0.3	0.0	0.2	0.0	0.2	0.0	0.5
Chevelon Lake	0.0	6.8	0.3	0.5	0.0	0.4	0.2	0.2
Christopher Creek	0.5	0.7	0.7	2.7	0.0	1.3	0.0	0.5
Clear Creek Reservoir	0.0	6.0	0.3	0.0	0.0	1.8	0.5	0.3
Cluff Ranch Ponds	0.0	1.0	0.2	0.0	1.4	0.0	0.5	0.0
Colorado River - Lees Ferry	7.3	5.0	2.5	1.2	2.9	7.6	3.2	10.5
Colorado River - Parker Strip Area	8.1	0.0	0.8	0.7	0.0	2.6	3.2	3.9
Colorado River - Topock Area	35.3	0.0	0.7	0.5	1.4	2.0	1.5	5.7
Colorado River - Ehrenberg / Blythe to Yuma	0.5	0.0	0.5	1.0	4.3	1.3	52.0	4.4
Cortez Lake	0.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0
Council Park Pond (Somerton)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2
Crescent Lake	0.8	11.8	4.3	4.6	1.4	1.3	1.0	2.0
Dead Horse Lake	0.5	0.7	0.5	0.7	0.0	16.4	0.5	1.0
Dogtown Reservoir	6.7	0.7	0.5	0.7	0.0	9.0	0.7	0.2
East Verde River	0.0	0.5	0.7	0.7	0.0	2.8	0.0	0.0
Fain Lake	0.0	0.0	0.0	0.2	0.0	15.5	0.2	0.2
Fool Hollow Lake	1.3	30.2	4.3	5.6	0.0	3.1	0.7	0.7
Fortuna Pond (Moser Pond)	0.0	0.0	0.2	0.0	0.0	0.2	28.5	0.2
Francis Short Pond	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
Frye Mesa Reservoir	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.2
Gila River - Phoenix Area	0.0	0.3	0.5	2.2	0.0	0.0	3.7	0.8
Gila River - Safford Area	0.0	0.3	0.8	1.5	0.0	0.0	1.5	0.3
Goldwater Lake	0.0	0.3	0.2	0.7	0.0	20.1	0.2	0.0

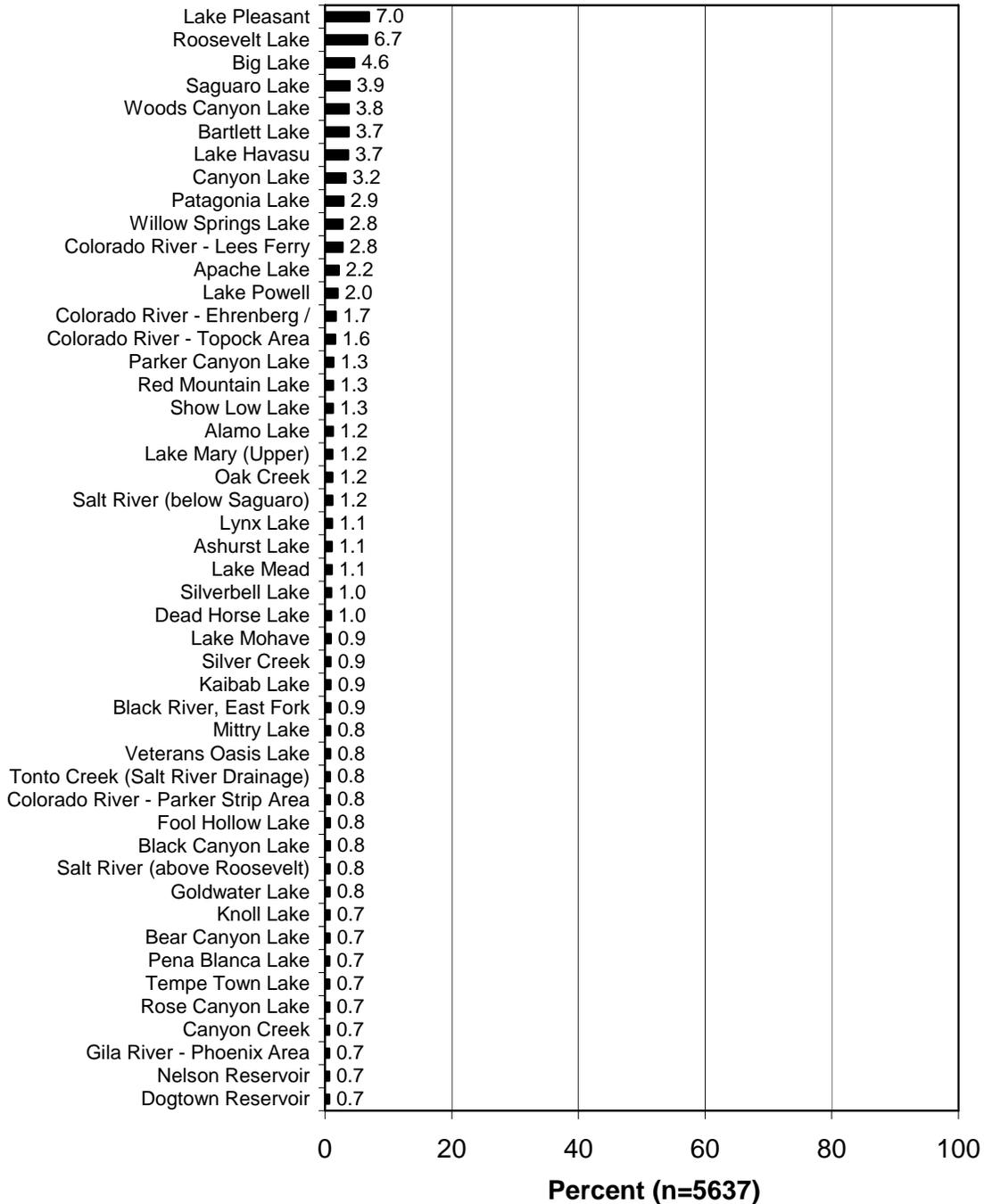
**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.) (Part 2, alphabetically.)**

Bodies of Water	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Granite Basin Lake	0.0	0.0	0.0	0.2	0.0	4.4	0.0	0.0
Green Valley Lake	0.0	0.3	0.5	0.2	0.0	0.2	0.0	0.7
Greer Area Lakes – Bunch, River, Tunnel	0.0	5.5	3.8	1.7	1.4	0.2	1.0	0.3
Kaibab Lake	5.9	1.0	0.3	1.2	0.0	8.3	1.0	0.2
Kennedy Lake	0.0	0.0	6.5	0.2	1.4	0.2	0.0	0.5
Kinnikinick Lake	0.3	0.7	0.7	0.7	0.0	1.5	0.0	0.3
Knoll Lake	0.0	1.8	0.3	2.9	0.0	1.1	0.5	0.0
Lake Havasu	43.1	1.5	1.3	0.5	1.4	2.8	3.2	18.2
Lake Mary (Lower)	0.8	0.5	0.5	2.7	0.0	3.9	0.7	0.5
Lake Mary (Upper)	2.2	1.8	3.2	2.4	1.4	12.0	0.2	0.8
Lake Mead	22.6	0.5	0.0	0.5	4.3	1.8	1.0	5.2
Lake Mohave	34.5	0.3	0.0	0.0	1.4	2.0	0.7	5.4
Lake Pleasant	1.1	1.5	2.8	7.3	2.9	16.4	1.0	8.3
Lake Powell	2.2	6.0	1.7	1.0	2.9	8.5	0.5	3.7
Lee Valley Lake	0.0	1.5	0.2	0.5	0.0	0.4	0.0	0.0
Little Colorado River (Greer)	0.3	0.7	1.8	2.7	2.9	0.2	0.5	0.7
Little Colorado River (Sheep's Crossing)	0.3	3.8	1.0	1.7	1.4	0.7	0.5	0.3
Luna Lake	0.0	1.3	1.3	0.5	0.0	0.7	1.0	1.9
Lyman Lake	0.0	1.5	0.2	0.2	0.0	0.2	0.0	0.0
Lynx Lake	0.3	0.0	0.0	1.7	0.0	28.6	0.7	0.3
Mittry Lake	0.0	0.0	0.3	0.0	0.0	0.2	49.8	1.0
Nelson Reservoir	0.0	4.8	2.2	1.2	0.0	0.2	0.7	1.7
Oak Creek	0.5	0.3	0.8	1.0	1.4	10.7	1.0	2.5
Parker Canyon Lake	0.3	0.0	15.6	1.2	28.1	0.4	0.5	0.5
Patagonia Lake	0.0	0.0	36.1	2.4	57.8	0.4	0.2	1.3
Pena Blanca Lake	0.0	0.0	9.9	1.0	45.1	0.2	0.2	0.2
Phoenix Area Canals	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.8
Rainbow Lake	0.3	11.1	2.8	4.4	0.0	0.7	0.5	0.2
Red Mountain Lake	0.0	0.0	0.2	3.4	0.0	0.2	0.0	1.3
Redondo Lake	0.0	0.0	0.0	0.2	0.0	0.0	8.8	0.0
Riggs Flat Lake	0.0	0.0	0.8	0.5	0.0	0.2	0.0	0.2
Roosevelt Lake	1.1	26.9	26.4	36.9	12.6	12.7	1.5	10.3
Roper Lake	0.0	0.5	1.0	0.0	0.0	0.0	0.2	0.3
Rose Canyon Lake	0.0	0.0	13.7	2.2	1.4	0.0	0.2	0.3
Saguaro Lake	0.0	0.5	2.0	16.9	1.4	0.4	0.7	5.6
Salt River (above Roosevelt)	0.0	5.5	1.2	7.3	0.0	0.4	0.5	1.5
Salt River (below Saguaro)	0.0	0.7	0.2	8.8	0.0	0.2	0.0	2.9
Show Low Lake	1.6	32.7	5.0	6.4	0.0	1.3	1.2	1.0

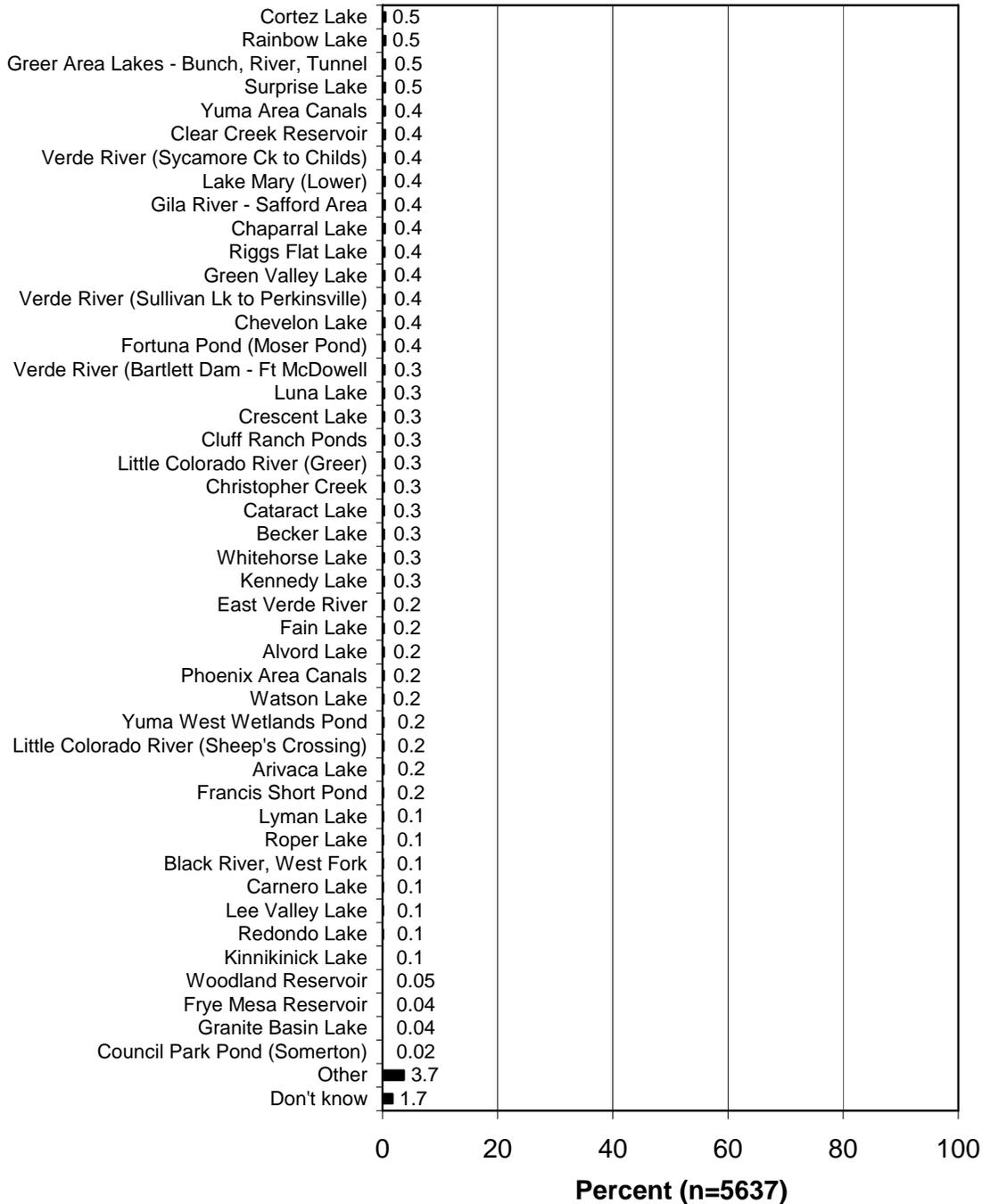
**Q117-Q141. Percent of active anglers who fished in each of the following locations. (Asked of those who personally fished in Arizona in 2013.) (Part 3, alphabetically.)**

<b>Bodies of Water</b>	<b>Mohave</b>	<b>Navajo</b>	<b>Pima</b>	<b>Pinal</b>	<b>Santa Cruz</b>	<b>Yavapai</b>	<b>Yuma</b>	<b>Out-of-State</b>
Silver Creek	0.3	14.6	1.5	1.5	0.0	0.9	0.5	0.8
Silverbell Lake	0.0	0.0	14.2	0.7	0.0	0.2	0.0	0.5
Surprise Lake	0.0	0.7	0.2	0.5	0.0	0.2	0.0	0.7
Tempe Town Lake	0.0	0.0	0.0	3.4	0.0	0.2	0.0	0.7
Tonto Creek (Salt River Drainage)	0.5	0.3	0.7	0.7	0.0	1.3	0.2	0.8
Verde River (Bartlett Dam to Fort McDowell Indian Reservation)	0.0	1.0	0.2	1.0	0.0	2.0	0.0	1.0
Verde River (Sullivan Lake to Perkinsville)	0.3	0.3	0.2	0.2	0.0	9.8	0.0	0.5
Verde River (Sycamore Ck to Childs)	0.0	0.0	0.3	0.0	0.0	11.1	0.0	0.7
Veterans Oasis Lake	0.0	0.0	0.0	3.2	0.0	0.2	0.0	0.3
Watson Lake	0.0	0.0	0.3	0.5	0.0	13.8	0.0	0.2
Whitehorse Lake	2.7	0.3	0.2	0.5	0.0	7.0	0.7	0.2
Willow Springs Lake	1.1	14.8	1.3	8.6	0.0	5.9	1.2	0.8
Woodland Reservoir	0.0	7.3	0.7	0.2	0.0	0.0	0.0	0.2
Woods Canyon Lake	0.5	12.8	2.3	14.2	0.0	3.3	1.2	0.5
Yuma Area Canals	0.3	0.0	0.5	0.2	1.4	0.2	28.3	0.8
Yuma West Wetlands Pond	0.3	0.0	0.2	0.0	1.4	0.2	17.2	0.3
Other	3.2	10.6	7.4	8.8	5.6	10.3	8.3	4.4

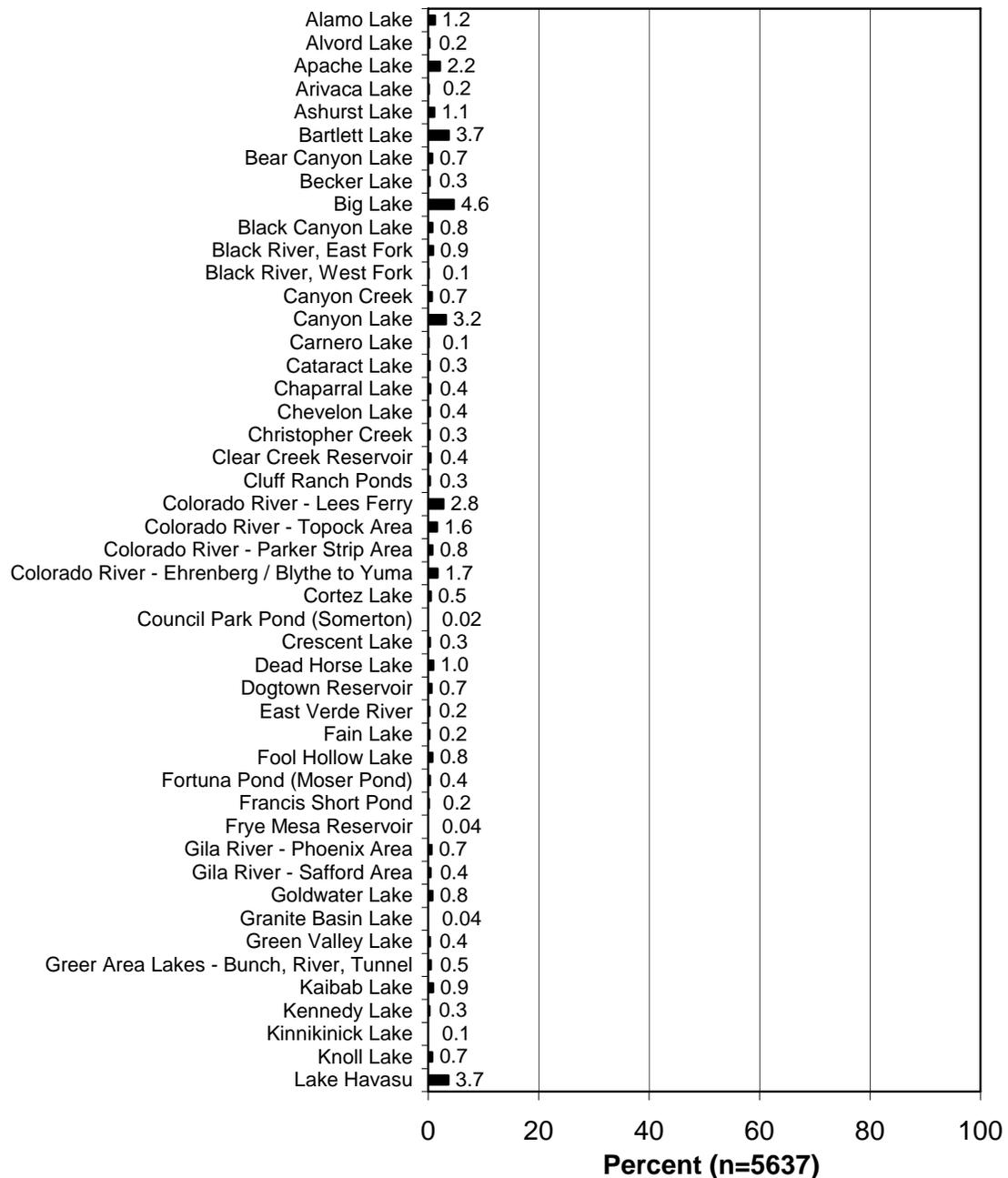
**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.) (Part 1.)**



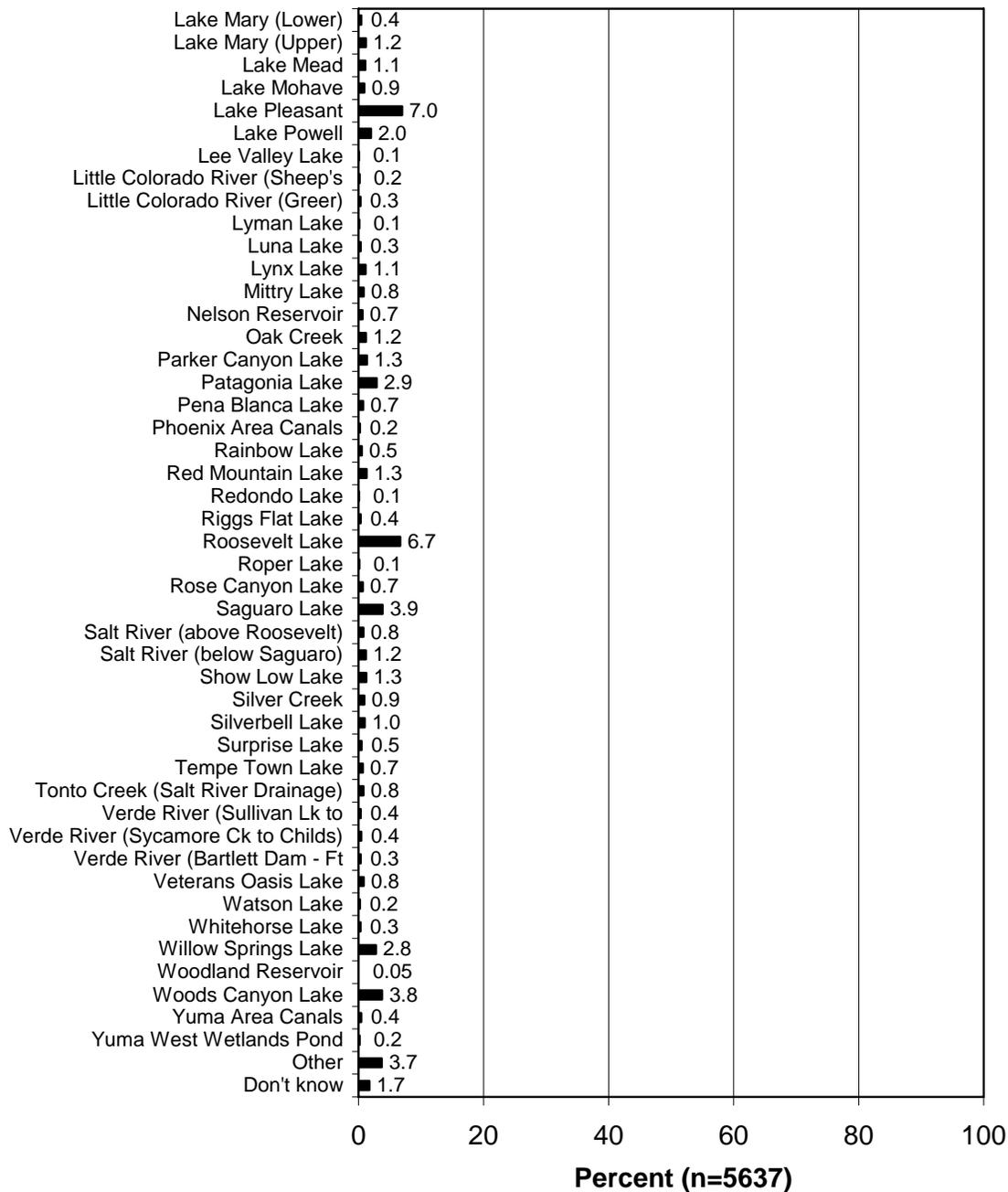
**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.) (Part 2.)**



**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**  
**(Part 1, alphabetically.)**



**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**  
**(Part 2, alphabetically.)**



**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.) (Part 1, alphabetically.)**

<b>Bodies of Water</b>	<b>Apache</b>	<b>Cochise</b>	<b>Coconino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
Alamo Lake	0.0	0.9	0.2	0.0	0.4	1.4	9.7	0.9
Alvord Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Apache Lake	0.0	0.3	0.7	7.0	2.5	2.7	0.0	2.6
Arivaca Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ashurst Lake	0.0	0.3	11.7	0.0	0.4	0.0	0.0	0.8
Bartlett Lake	0.0	0.9	0.7	0.0	0.0	0.0	0.0	6.9
Bear Canyon Lake	0.5	0.0	0.0	0.6	0.0	0.0	1.4	1.2
Becker Lake	1.4	0.0	0.0	0.3	0.4	1.4	0.0	0.2
Big Lake	30.4	5.7	1.4	2.1	12.2	10.8	1.4	3.6
Black Canyon Lake	0.0	0.0	0.0	0.6	0.4	0.0	0.0	1.4
Black River, East Fork	3.9	2.1	0.0	0.6	1.7	5.4	0.0	1.1
Black River, West Fork	0.0	0.3	0.0	0.6	0.0	0.0	0.0	0.0
Canyon Creek	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.2
Canyon Lake	0.0	0.0	0.5	0.0	0.0	0.0	0.0	5.4
Carnero Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Cataract Lake	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.2
Chaparral Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Chevelon Lake	0.0	0.3	0.2	0.3	0.0	0.0	0.0	0.5
Christopher Creek	0.0	0.0	0.2	0.3	0.4	0.0	0.0	0.5
Clear Creek Reservoir	0.5	0.0	1.4	0.0	0.0	0.0	1.4	0.3
Cluff Ranch Ponds	0.0	0.0	0.0	0.3	22.6	2.7	1.4	0.0
Colorado River - Lees Ferry	1.0	0.6	10.5	0.0	0.0	0.0	5.6	2.1
Colorado River - Topock Area	0.0	0.0	1.0	0.0	1.2	0.0	0.0	0.2
Colorado River - Parker Strip Area	0.0	0.6	0.7	0.0	0.4	1.4	34.9	0.5
Colorado River - Ehrenberg/Blythe to Yuma	0.0	0.3	0.0	0.0	1.2	0.0	9.7	0.6
Cortez Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Council Park Pond (Somerton)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crescent Lake	6.3	0.9	0.0	0.0	0.4	0.0	0.0	0.2
Dead Horse Lake	0.0	0.0	1.0	0.3	0.0	0.0	0.0	0.9
Dogtown Reservoir	0.0	0.0	1.0	0.0	0.0	0.0	1.4	0.6
East Verde River	0.0	0.0	0.0	3.1	0.4	0.0	0.0	0.2
Fain Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fool Hollow Lake	2.4	0.6	0.0	0.0	0.4	0.0	0.0	0.5
Fortuna Pond (Moser Pond)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Francis Short Pond	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0
Frye Mesa Reservoir	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0
Gila River - Phoenix Area	0.0	0.0	0.0	0.0	0.4	5.4	0.0	1.1
Gila River - Safford Area	0.0	1.2	0.0	0.3	11.3	9.5	0.0	0.3

**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.) (Part 2, alphabetically.)**

<b>Bodies of Water</b>	<b>Apache</b>	<b>Cochise</b>	<b>Coconino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
Goldwater Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Granite Basin Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Green Valley Lake	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.3
Greer Area Lakes – Bunch, River, Tunnel	5.3	0.9	0.2	0.9	0.4	0.0	0.0	0.3
Kaibab Lake	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.5
Kennedy Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kinnikinick Lake	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Knoll Lake	0.0	0.3	0.5	0.6	0.0	0.0	0.0	1.4
Lake Havasu	0.0	0.6	0.7	0.6	0.4	0.0	22.2	0.6
Lake Mary (Lower)	0.0	0.0	2.6	0.0	0.0	1.4	1.4	0.5
Lake Mary (Upper)	0.0	0.3	11.7	0.0	0.0	0.0	1.4	0.6
Lake Mead	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.2
Lake Mohave	0.0	0.0	0.5	0.0	0.4	0.0	0.0	0.0
Lake Pleasant	0.5	0.0	0.7	0.0	0.0	0.0	1.4	12.5
Lake Powell	1.4	0.0	18.9	1.2	1.2	1.4	0.0	0.8
Lee Valley Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Little Colorado River (Sheep's Crossing)	0.0	0.3	0.0	0.0	0.4	0.0	0.0	0.2
Little Colorado River (Greer)	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3
Lyman Lake	6.8	0.0	0.2	0.0	0.4	0.0	0.0	0.0
Luna Lake	4.8	0.9	0.0	0.0	5.0	14.9	0.0	0.0
Lynx Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Mittry Lake	0.0	0.3	0.0	0.0	0.4	0.0	0.0	0.3
Nelson Reservoir	14.0	0.9	0.2	0.0	3.4	13.5	0.0	0.3
Oak Creek	0.0	0.6	4.8	0.0	0.4	0.0	0.0	1.2
Parker Canyon Lake	0.0	32.3	0.2	0.0	0.4	0.0	0.0	0.0
Patagonia Lake	0.0	26.9	0.2	0.0	0.0	0.0	0.0	0.3
Pena Blanca Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Phoenix Area Canals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Rainbow Lake	0.5	0.9	0.0	0.6	0.8	1.4	0.0	0.5
Red Mountain Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Redondo Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Riggs Flat Lake	0.0	3.3	0.0	0.0	9.2	6.8	0.0	0.2
Roosevelt Lake	11.6	6.9	4.8	39.4	9.6	2.7	2.7	4.7
Roper Lake	0.0	1.2	0.0	0.3	3.4	0.0	0.0	0.0
Rose Canyon Lake	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Saguaro Lake	0.0	0.0	0.2	0.3	0.8	0.0	0.0	6.9
Salt River (Above Roosevelt)	0.0	0.6	0.0	3.1	0.0	1.4	0.0	0.8
Salt River (Below Saguaro)	0.5	0.0	0.2	0.3	0.0	0.0	0.0	1.8

**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.) (Part 3, alphabetically.)**

<b>Bodies of Water</b>	<b>Apache</b>	<b>Cochise</b>	<b>Cocoino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
Show Low Lake	2.9	0.9	0.0	0.3	0.0	0.0	0.0	0.8
Silver Creek	0.0	0.6	0.2	0.3	0.0	0.0	0.0	1.2
Silverbell Lake	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0
Surprise Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Tempe Town Lake	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.4
Tonto Creek (Salt River Drainage)	0.0	0.3	0.0	4.6	0.0	0.0	0.0	1.2
Verde River (Sullivan Lake to Perkinsville)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Verde River (Sycamore Ck to Childs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Verde River (Bartlett Dam to Fort McDowell Indian Reservation)	0.5	0.0	0.2	0.0	0.4	0.0	1.4	0.5
Veterans Oasis Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Watson Lake	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Whitehorse Lake	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.2
Willow Springs Lake	1.0	0.0	0.0	13.4	0.4	0.0	0.0	4.1
Woodland Reservoir	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Woods Canyon Lake	0.0	0.6	0.5	4.9	0.4	2.7	0.0	6.6
Yuma West Wetlands Pond	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Other	2.4	2.4	3.8	3.7	2.9	13.5	1.4	4.1
Don't know	0.5	1.5	0.0	0.6	0.4	0.0	1.4	1.8

**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.) (Part 1, alphabetically.)**

Bodies of Water	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Alamo Lake	1.9	0.3	0.3	1.0	0.0	4.6	0.5	3.7
Alvord Lake	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
Apache Lake	0.0	1.0	4.3	2.7	1.4	0.7	0.0	0.5
Arivaca Lake	0.0	0.0	1.2	0.0	2.9	0.0	0.0	0.3
Ashurst Lake	0.0	1.0	0.3	0.2	0.0	1.3	0.0	0.2
Bartlett Lake	0.0	0.0	0.2	2.2	1.4	2.0	0.0	2.2
Bear Canyon Lake	0.0	1.5	0.2	1.9	0.0	0.0	0.0	0.0
Becker Lake	0.0	1.8	0.3	0.2	0.0	0.0	0.0	1.0
Big Lake	0.8	13.8	8.7	8.8	5.6	2.2	1.5	2.5
Black Canyon Lake	0.0	2.0	0.0	1.2	0.0	0.0	0.0	0.0
Black River, East Fork	0.0	1.8	1.2	0.7	0.0	0.0	0.0	0.0
Black River, West Fork	0.0	0.5	0.5	0.2	0.0	0.0	0.0	0.2
Canyon Creek	0.0	0.0	0.0	1.5	1.4	0.2	0.0	0.3
Canyon Lake	0.0	0.0	1.5	8.8	0.0	0.2	0.2	2.0
Carnero Lake	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0
Cataract Lake	0.0	0.0	0.0	0.2	0.0	1.1	0.0	0.0
Chaparral Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Chevelon Lake	0.0	2.5	0.2	0.0	0.0	0.2	0.0	0.0
Christopher Creek	0.0	0.3	0.2	0.7	0.0	0.0	0.0	0.0
Clear Creek Reservoir	0.0	4.3	0.0	0.2	0.0	0.4	0.0	0.5
Cluff Ranch Ponds	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0
Colorado River - Lees Ferry	3.8	1.0	0.8	0.2	2.9	2.8	2.0	8.6
Colorado River - Topock Area	21.0	0.5	0.5	0.0	0.0	0.2	1.0	3.9
Colorado River - Parker Strip Area	3.0	0.0	0.2	0.2	0.0	0.7	1.0	1.7
Colorado River – Ehrenberg/Blythe to Yuma	0.8	0.0	0.3	0.5	2.9	0.4	29.5	3.9
Council Park Pond (Somerton)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Crescent Lake	0.0	1.8	0.7	0.2	0.0	0.2	0.0	0.3
Dead Horse Lake	0.3	0.3	0.0	0.2	0.0	7.0	0.2	0.5
Dogtown Reservoir	2.4	0.3	0.0	0.2	0.0	3.1	0.0	0.0
East Verde River	0.0	0.0	0.3	0.0	0.0	1.1	0.0	0.0
Fain Lake	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0
Fool Hollow Lake	0.3	8.8	0.7	1.2	0.0	1.5	0.0	0.2
Fortuna Pond (Moser Pond)	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.2
Francis Short Pond	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Frye Mesa Reservoir	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gila River - Phoenix Area	0.0	0.0	0.3	0.5	0.0	0.0	1.2	0.3
Gila River - Safford Area	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2

**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.) (Part 2, alphabetically.)**

Bodies of Water	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Goldwater Lake	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0
Granite Basin Lake	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
Green Valley Lake	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3
Greer Area Lakes – Bunch, River, Tunnel	0.0	1.0	1.2	0.5	0.0	0.0	0.5	0.3
Kaibab Lake	1.9	0.0	0.0	0.5	0.0	2.6	0.5	0.0
Kennedy Lake	0.0	0.0	2.2	0.0	1.4	0.0	0.0	0.3
Kinnikinick Lake	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2
Knoll Lake	0.0	0.3	0.0	0.7	0.0	0.4	0.0	0.0
Lake Havasu	35.6	0.7	0.7	0.7	0.0	1.3	1.0	15.3
Lake Mary (Lower)	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.5
Lake Mary (Upper)	0.3	0.5	0.7	0.7	0.0	3.1	0.0	0.3
Lake Mead	11.9	0.0	0.0	0.0	0.0	0.4	0.2	4.2
Lake Mohave	12.7	0.0	0.0	0.0	0.0	0.7	0.7	2.4
Lake Pleasant	0.3	0.0	1.0	2.7	0.0	5.7	0.2	5.6
Lake Powell	0.0	3.5	1.0	0.2	0.0	4.1	0.2	2.2
Lee Valley Lake	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Little Colorado River (Sheep's Crossing)	0.0	1.0	0.2	0.2	0.0	0.0	0.2	0.2
Little Colorado River (Greer)	0.0	0.3	0.7	1.0	1.4	0.0	0.2	0.3
Lyman Lake	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0
Luna Lake	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.5
Lynx Lake	0.0	0.0	0.0	0.7	0.0	12.9	0.2	0.2
Mittry Lake	0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.2
Nelson Reservoir	0.0	2.0	1.0	0.2	0.0	0.0	0.0	0.3
Oak Creek	0.0	0.0	0.3	0.5	0.0	2.8	0.2	1.7
Parker Canyon Lake	0.0	0.0	4.9	0.2	14.1	0.0	0.2	0.2
Patagonia Lake	0.0	0.0	18.1	0.7	28.1	0.2	0.0	1.2
Pena Blanca Lake	0.0	0.0	4.0	0.5	29.6	0.0	0.0	0.2
Phoenix Area Canals	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.5
Rainbow Lake	0.0	1.8	0.8	1.0	0.0	0.4	0.2	0.2
Red Mountain Lake	0.0	0.0	0.2	1.5	0.0	0.0	0.0	1.0
Redondo Lake	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0
Riggs Flat Lake	0.0	0.0	0.3	0.0	0.0	0.4	0.0	0.0
Roosevelt Lake	0.0	9.0	11.0	18.6	2.9	3.1	0.0	6.9
Roper Lake	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Rose Canyon Lake	0.0	0.0	6.0	0.5	0.0	0.0	0.0	0.3
Saguaro Lake	0.0	0.0	0.7	4.4	0.0	0.2	0.0	3.9
Salt River (Above Roosevelt)	0.0	1.5	0.3	2.2	0.0	0.2	0.0	1.9
Salt River (Below Saguaro)	0.0	0.3	0.0	2.9	0.0	0.0	0.0	2.2

**Q234. Where did you go on your most recent fishing trip in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.) (Part 3, alphabetically.)**

<b>Bodies of Water</b>	<b>Mohave</b>	<b>Navajo</b>	<b>Pima</b>	<b>Pinal</b>	<b>Santa Cruz</b>	<b>Yavapai</b>	<b>Yuma</b>	<b>Out-of-State</b>
Show Low Lake	0.0	14.3	2.0	3.2	0.0	0.2	0.2	0.2
Silver Creek	0.3	5.0	0.5	0.7	0.0	0.2	0.0	0.2
Silverbell Lake	0.0	0.0	8.7	0.2	0.0	0.0	0.0	0.5
Surprise Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Tempe Town Lake	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.3
Tonto Creek (Salt River Drainage)	0.0	0.3	0.5	0.5	0.0	0.2	0.2	0.0
Verde River (Sullivan Lake to Perkinsville)	0.0	0.0	0.2	0.2	0.0	2.8	0.2	0.3
Verde River (Sycamore Ck to Childs)	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.2
Verde River (Bartlett Dam to Fort McDowell Indian Reservation)	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.5
Veterans Oasis Lake	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.2
Watson Lake	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.3
Whitehorse Lake	0.5	0.0	0.0	0.2	0.0	2.0	0.0	0.0
Willow Springs Lake	0.8	5.3	0.7	3.9	0.0	0.7	0.2	0.5
Woodland Reservoir	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Woods Canyon Lake	0.0	2.5	1.2	5.6	0.0	0.0	0.5	0.2
Yuma Area Canals	0.0	0.0	0.0	0.2	0.0	0.0	11.8	0.8
Yuma West Wetlands Pond	0.0	0.0	0.0	0.0	1.4	0.0	4.5	0.2
Other	0.3	4.5	4.7	2.7	0.0	4.6	3.2	2.7
Don't know	1.3	0.3	1.5	2.2	1.4	0.7	2.0	4.9

**Days Fished at Various Locations, Among All Active Anglers (Part 1.)**

Bodies of Water	Days Fished at Location		Trips Made to Location	
	Mean	Median	Mean	Median
Alamo Lake	5.33	3	2.58	1
Alvord Lake	5.40	5	6.33	5
Apache Lake	6.63	3	3.94	2
Arivaca Lake	3.93	3	2.90	2
Ashurst Lake	6.35	2	4.36	1
Bartlett Lake	9.23	4	8.33	3
Bear Canyon Lake	5.87	2	3.23	1
Becker Lake	6.64	3	5.63	3
Big Lake	4.90	3	2.95	2
Black Canyon Lake	5.01	2	3.94	2
Black River, East Fork	4.38	3	2.17	1
Black River, West Fork	3.02	2	1.99	1
Canyon Creek	3.75	2	2.88	2
Canyon Lake	5.85	3	5.38	2
Carnero Lake	2.10	2	1.66	1
Cataract Lake	7.09	2	5.24	2
Chaparral Lake	8.50	5	9.75	5
Chevelon Lake	2.65	1	2.09	1
Christopher Creek	2.38	1	1.86	1
Clear Creek Reservoir	5.80	2	4.66	2
Cluff Ranch Ponds	8.59	3	8.64	3
Colorado River - Lees Ferry	6.59	3	4.61	1
Colorado River - Topock Area	22.59	8	18.03	5
Colorado River - Parker Strip Area	12.09	6	9.06	2
Colorado River - Ehrenberg / Blythe to Yuma	15.63	8	11.51	5
Cortez Lake	6.89	4	6.77	3
Council Park Pond (Somerton)	8.98	5	6.66	5
Crescent Lake	3.47	2	2.78	2
Dead Horse Lake	8.61	3	5.63	2
Dogtown Reservoir	3.19	2	2.47	1
East Verde River	7.01	2	6.36	2
Fain Lake	9.19	4	9.08	3
Fool Hollow Lake	6.65	3	4.54	2
Fortuna Pond (Moser Pond)	10.76	5	8.44	4
Francis Short Pond	16.08	5	9.38	2
Frye Mesa Reservoir	3.27	1	2.72	1
Gila River - Phoenix Area	12.70	10	11.41	7
Gila River - Safford Area	7.80	3	7.23	3
Goldwater Lake	5.93	3	5.94	3
Granite Basin Lake	7.10	4	7.08	6
Green Valley Lake	15.97	8	10.40	4
Greer Area Lakes - Bunch, River, Tunnel	3.62	2	2.68	1
Kaibab Lake	7.57	3	4.41	2
Kennedy Lake	7.60	5	6.23	4
Kinnikinick Lake	2.76	2	2.42	1
Knoll Lake	3.48	2	1.90	1
Lake Havasu	17.51	10	12.62	4
Lake Mary (Lower)	3.31	2	2.54	2

**Days Fished at Various Locations, Among All Active Anglers (Part 2.)**

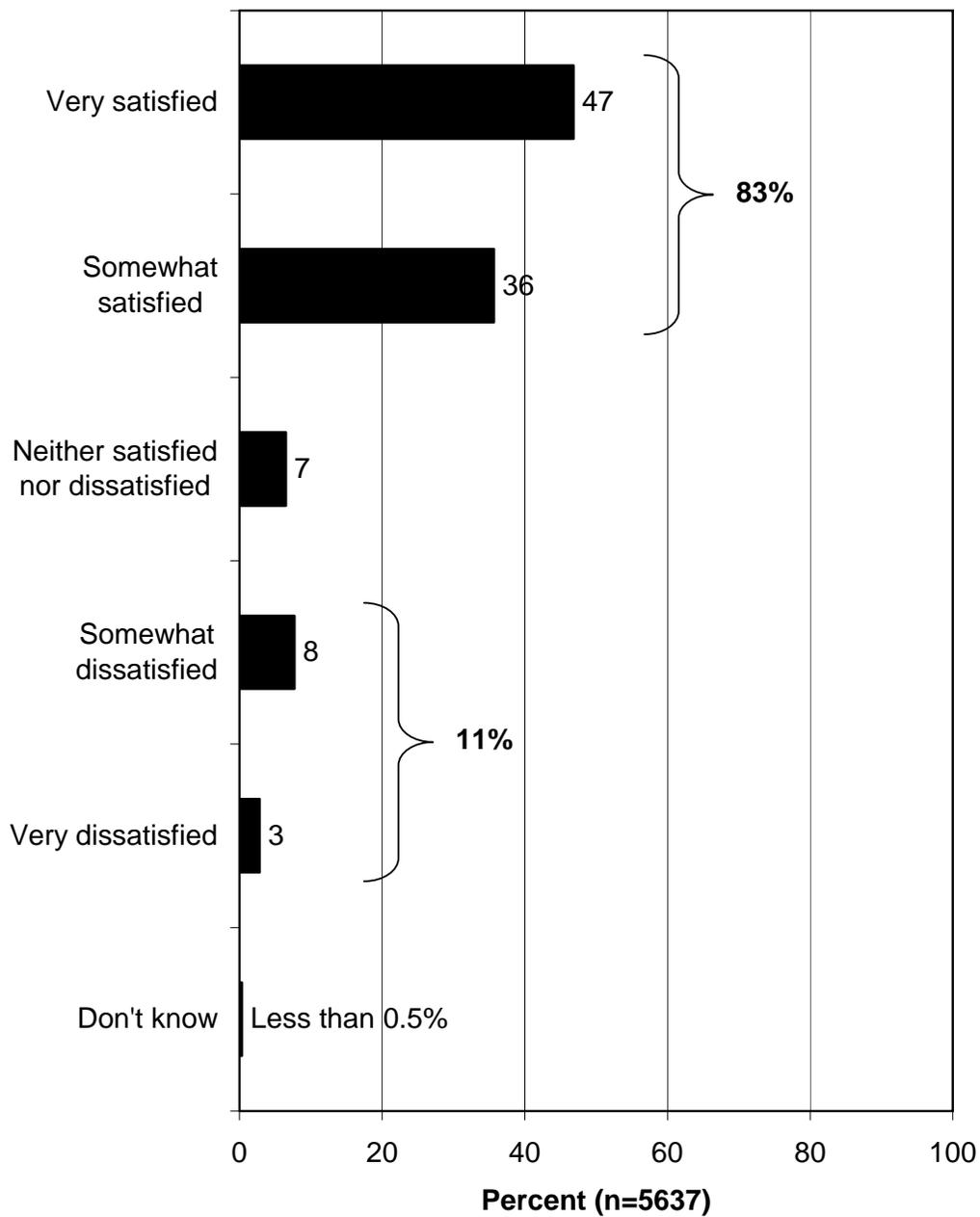
Bodies of Water	Days Fished at Location		Trips Made to Location	
	Mean	Median	Mean	Median
Lake Mead	10.75	5	7.41	3
Lake Mohave	18.05	8	14.58	4
Lake Pleasant	7.41	4	6.58	3
Lake Powell	8.91	4	4.77	1
Lee Valley Lake	3.91	2	1.50	1
Little Colorado River (Sheep's Crossing)	3.22	1	2.37	1
Little Colorado River (Greer)	3.75	2	2.51	2
Lyman Lake	6.74	2	6.76	3
Luna Lake	4.39	3	3.61	2
Lynx Lake	7.29	2	5.90	2
Mittry Lake	12.82	5	10.83	5
Nelson Reservoir	6.33	2	3.15	2
Oak Creek	5.00	3	3.93	2
Parker Canyon Lake	6.06	3	4.49	2
Patagonia Lake	7.50	4	5.22	2
Pena Blanca Lake	5.17	3	4.19	2
Phoenix Area Canals	3.99	4	3.52	3
Rainbow Lake	8.85	3	6.95	2
Red Mountain Lake	18.10	4	17.76	4
Redondo Lake	6.45	3	6.39	3
Riggs Flat Lake	3.86	2	3.19	2
Roosevelt Lake	7.97	4	5.33	2
Roper Lake	8.43	3	8.15	2
Rose Canyon Lake	8.11	3	4.57	2
Saguaro Lake	10.14	4	9.57	3
Salt River (above Roosevelt)	14.11	4	8.98	2
Salt River (below Saguaro)	8.29	4	9.08	3
Show Low Lake	6.82	3	5.14	2
Silver Creek	4.46	2	3.86	1
Silverbell Lake	17.17	6	15.36	6
Surprise Lake	13.36	3	12.87	2
Tempe Town Lake	6.95	3	6.32	2
Tonto Creek (Salt River Drainage)	6.45	2	5.01	2
Verde River (Sullivan Lake to Perkinsville)	5.29	3	3.94	2
Verde River (Sycamore Ck to Childs)	8.82	3	7.62	2
Verde River (Bartlett Dam to Ft McDowell Res.)	3.39	2	2.59	1
Veterans Oasis Lake	33.20	5	33.30	5
Watson Lake	5.73	2	4.63	2
Whitehorse Lake	3.82	2	2.26	1
Willow Springs Lake	5.33	3	4.02	2
Woodland Reservoir	2.46	1	2.11	1
Woods Canyon Lake	5.24	3	3.45	2
Yuma Area Canals	12.87	5	9.93	4
Yuma West Wetlands Pond	7.62	5	5.53	3
Other location	10.18	3	7.94	2

## SATISFACTIONS AND DISSATISFACTIONS WITH FISHING IN ARIZONA

- A large majority of active anglers (83%) were satisfied with their overall 2013 fishing experiences in Arizona; however, 11% were dissatisfied.
  
- A series of questions asked about satisfaction or dissatisfaction with a variety of aspects of fishing in Arizona, such as the amount of fish caught, the size of fish caught, or access to the waters. The order of the questions was randomized to eliminate “order bias” (the tendency of a previous answer to affect a subsequent answer). Although the absolute results are important, the relative results are of more interest—where each questions falls within the entire series.
  - The greatest satisfaction is with the *variety of fish* available (84% are satisfied), followed by three more aspects with at least two-thirds being satisfied with it: level of access (78%), consumption safety (69%), and availability of waters where bait can be used (68%).
    - The greatest dissatisfaction is with the number of fish caught (28% are dissatisfied) and the size of the fish caught (22%). However, for each aspect, satisfaction leads dissatisfaction, even for these with relatively high dissatisfaction.
    - Lower satisfaction does not necessarily mean commensurate higher dissatisfaction because large percentages gave a neutral response or did not know. Therefore, even the bottom in satisfaction is well above dissatisfaction (availability of fly and lure waters only, at 37% satisfaction and 5% dissatisfaction).
    - The first graph illustrating these data is in color; because color graphs may not reproduce well in black-and-white printing, this color graph is followed by four graphs showing the percent being *very satisfied*, the percent being *very or somewhat satisfied*, the percent being *very dissatisfied*, and the percent being *very or somewhat dissatisfied*.

- Three questions asked active anglers about satisfaction or dissatisfaction with aspects of their *most recent fishing trip* in Arizona.
  - The most basic of the three questions asked active anglers about satisfaction or dissatisfaction with their *most recent fishing trip* in Arizona overall: 74% were satisfied, while 18% were dissatisfied. Paired with the findings reported above, these findings suggest that at least some of those who were dissatisfied with their most recent trip were, nonetheless, satisfied overall.
  - Another question asked about satisfaction or dissatisfaction with the *number* of fish caught on their most recent trip: just more than half (52%) were satisfied, but more than a third (37%) were dissatisfied.
  - A final question about the most recent trip asked active anglers about their satisfaction or dissatisfaction with the *size* of the fish they caught on their most recent trip: 53% were satisfied, while 28% were dissatisfied.

**Q29. Overall, how satisfied or dissatisfied are you with your fishing experiences in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**



**29. Overall, how satisfied or dissatisfied are you with your fishing experiences in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Very satisfied	43	42	38	41	36	34	50	50
Somewhat satisfied	37	36	42	35	42	43	33	34
Neither satisfied nor dissatisfied	4	7	9	5	9	7	8	7
Somewhat dissatisfied	12	11	8	12	8	9	7	6
Very dissatisfied	4	5	3	6	4	7	1	2
Don't know	0	0	0	0	1	0	0	0

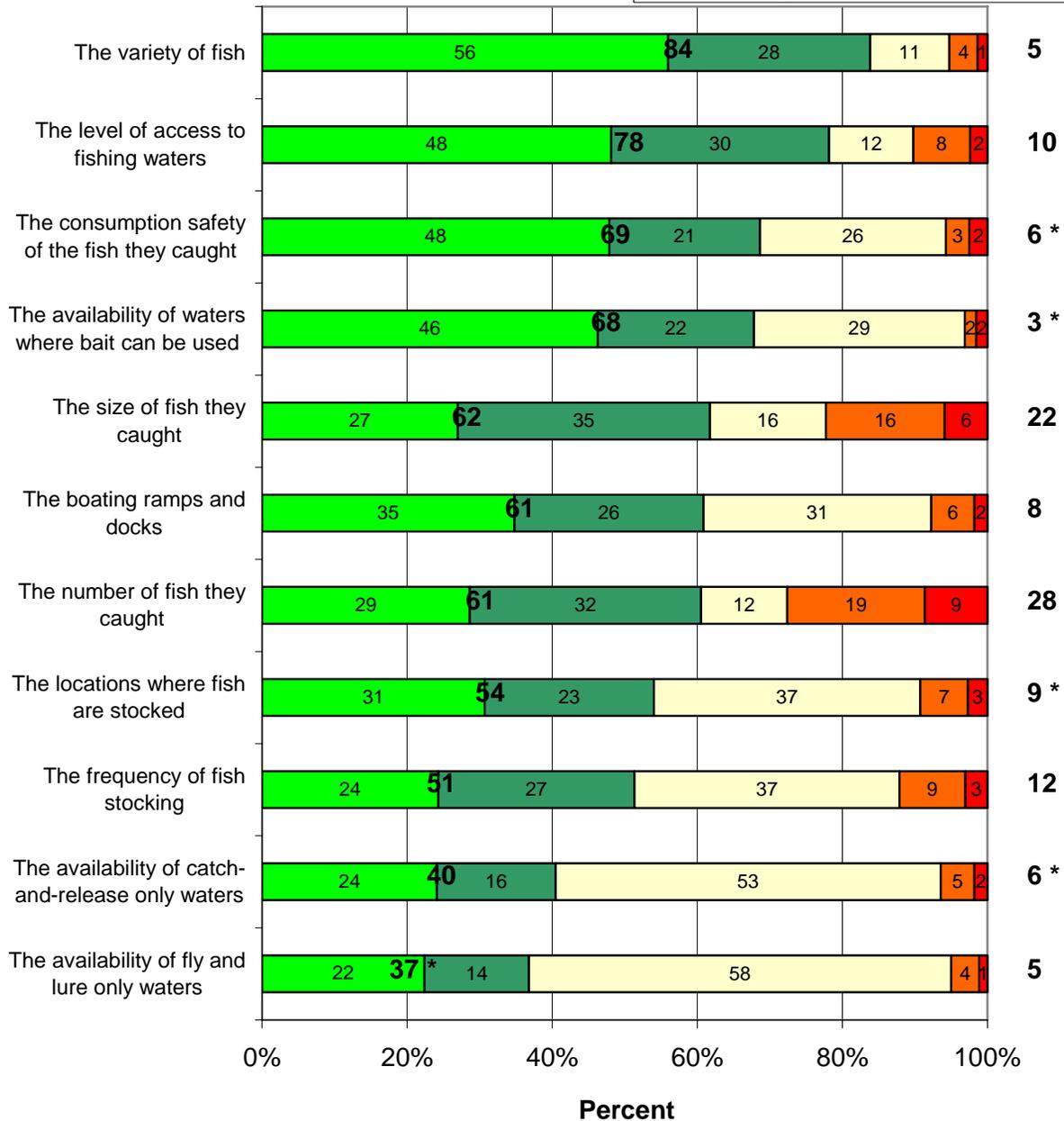
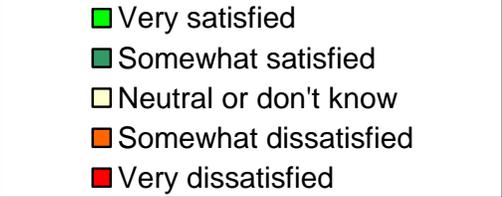
**29. Overall, how satisfied or dissatisfied are you with your fishing experiences in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Very satisfied	45	42	47	45	46	40	51	45
Somewhat satisfied	34	37	37	38	34	40	36	35
Neither satisfied nor dissatisfied	6	9	5	6	7	5	5	4
Somewhat dissatisfied	10	9	7	7	9	11	6	11
Very dissatisfied	5	4	5	3	3	3	2	4
Don't know	0	0	0	1	1	0	1	1

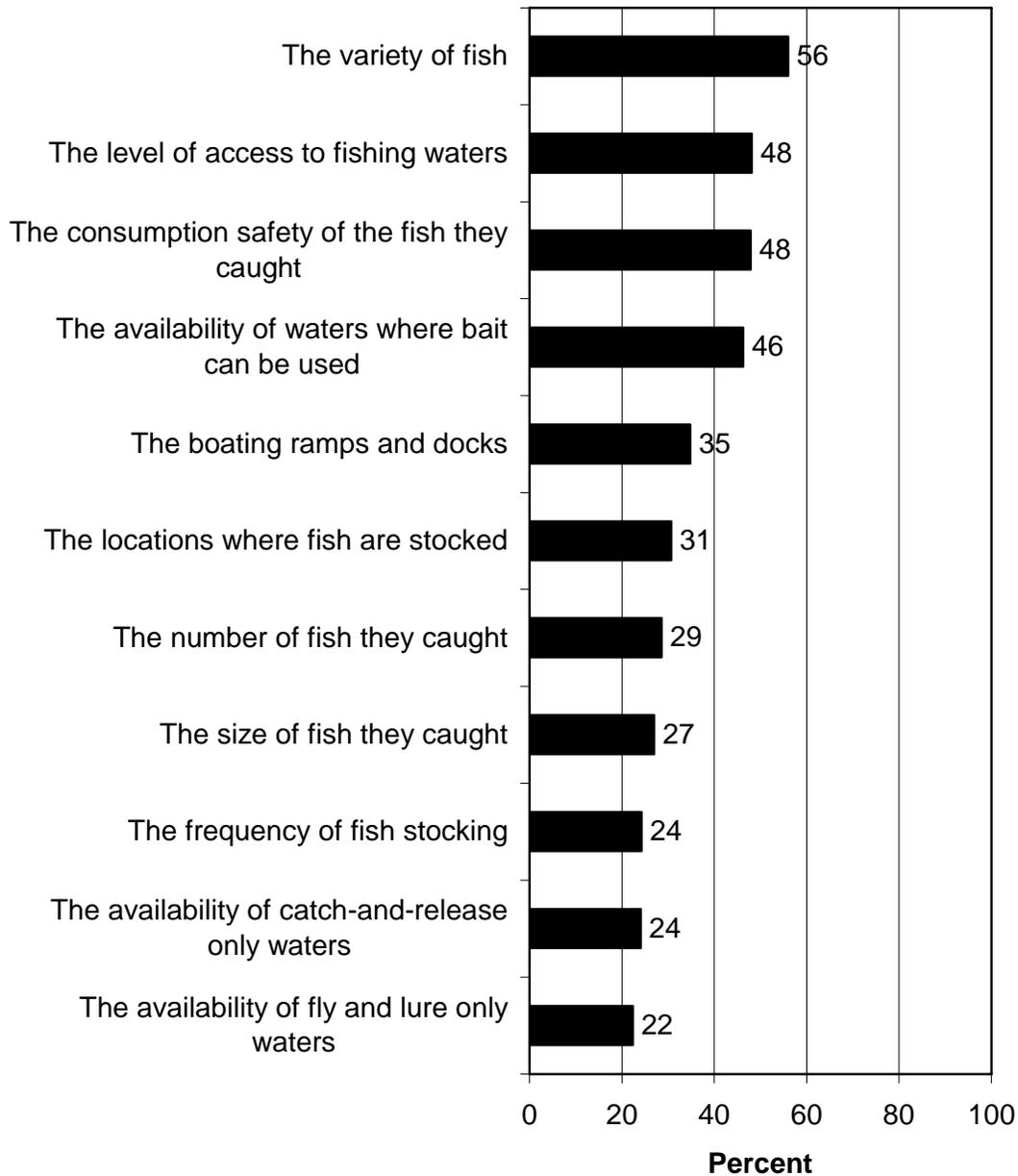
### Q32-Q42. Percent satisfied or dissatisfied with the various aspects of fishing in Arizona in 2013.

\* Rounding on graph causes apparent discrepancy in sum, which is calculated on unrounded numbers.

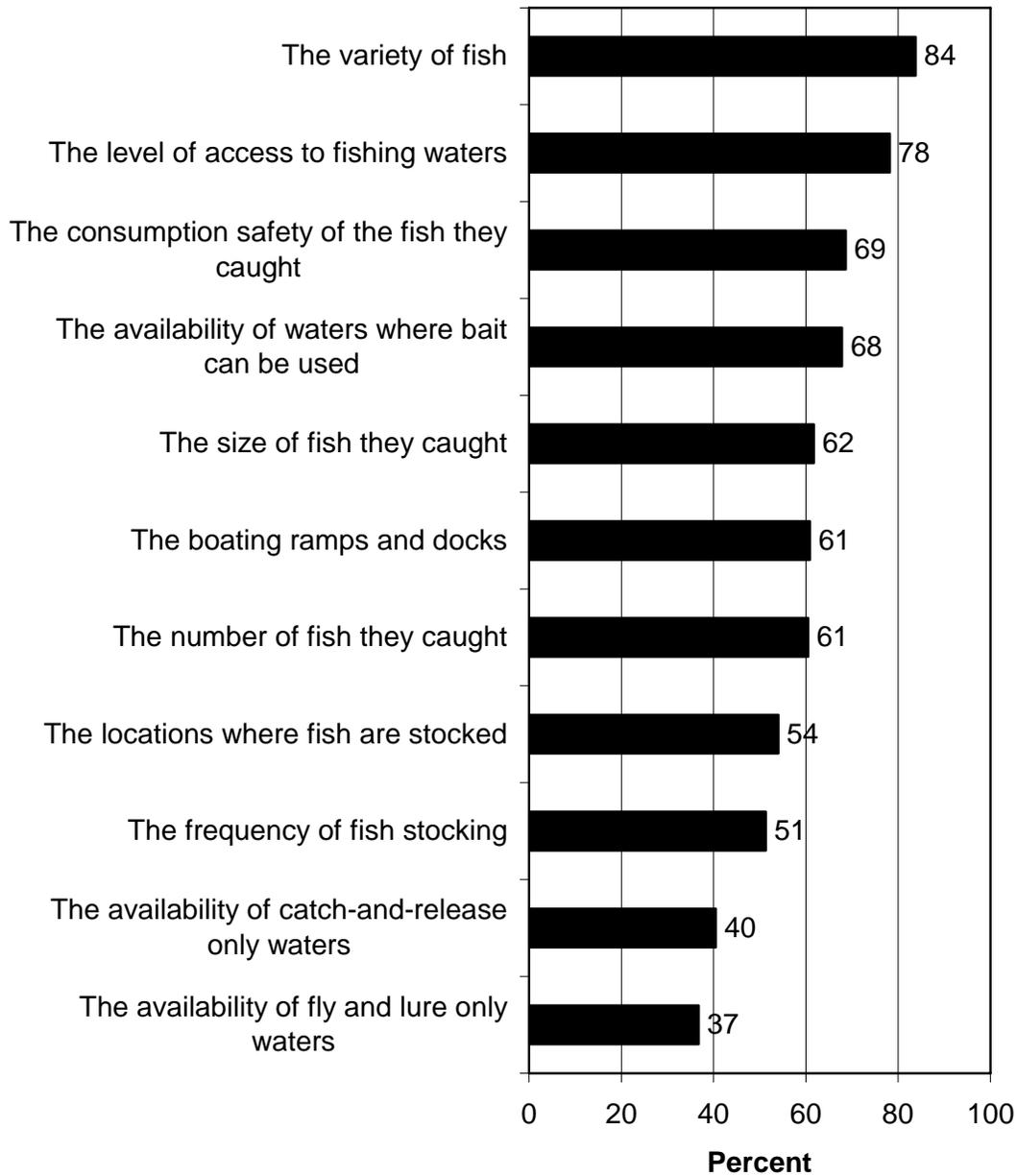
Bold number in the middle of the green part of bar shows total satisfied; bold number to right of bars shows total dissatisfied.



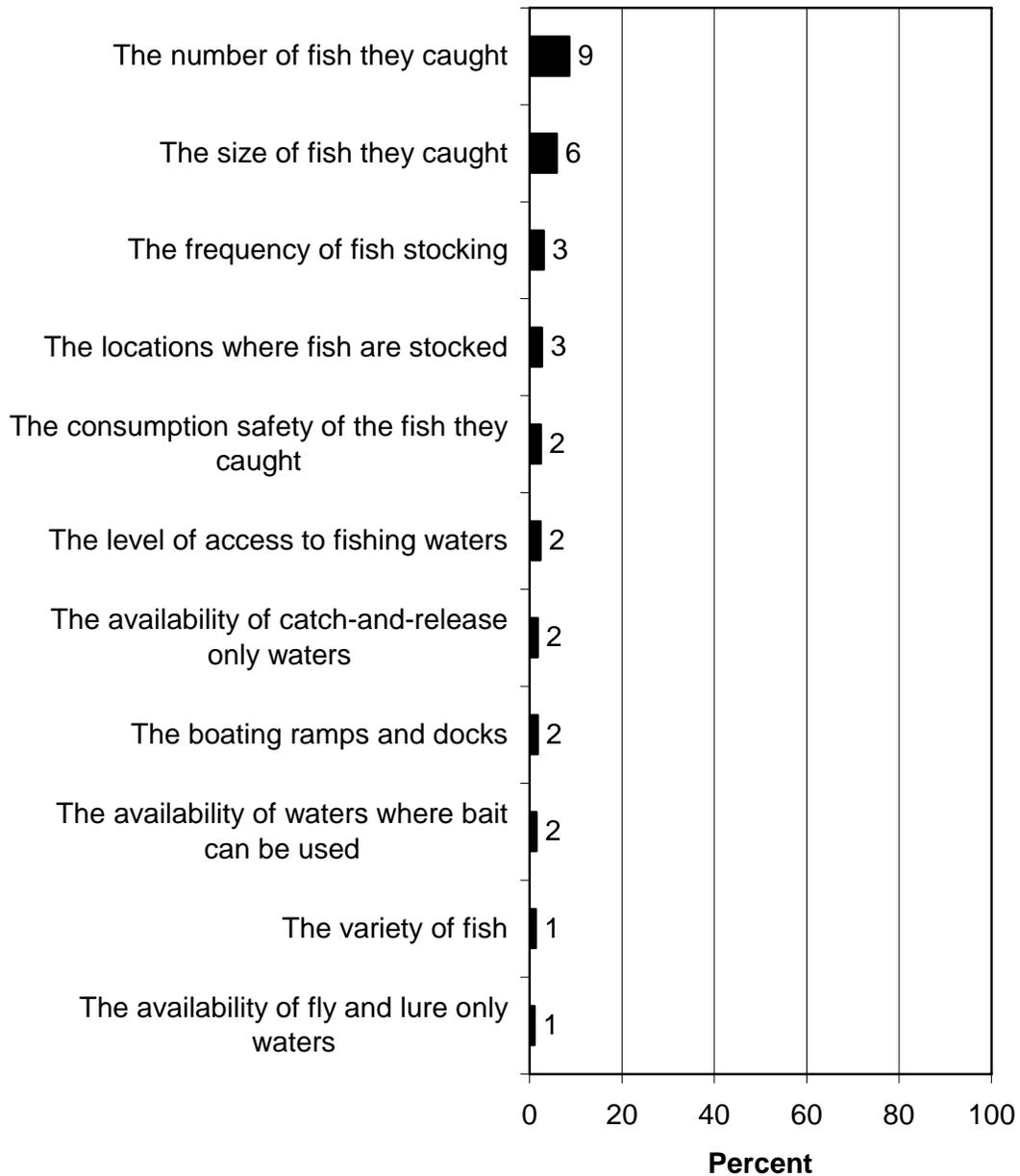
**Q32-Q42. Percent who were very satisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**



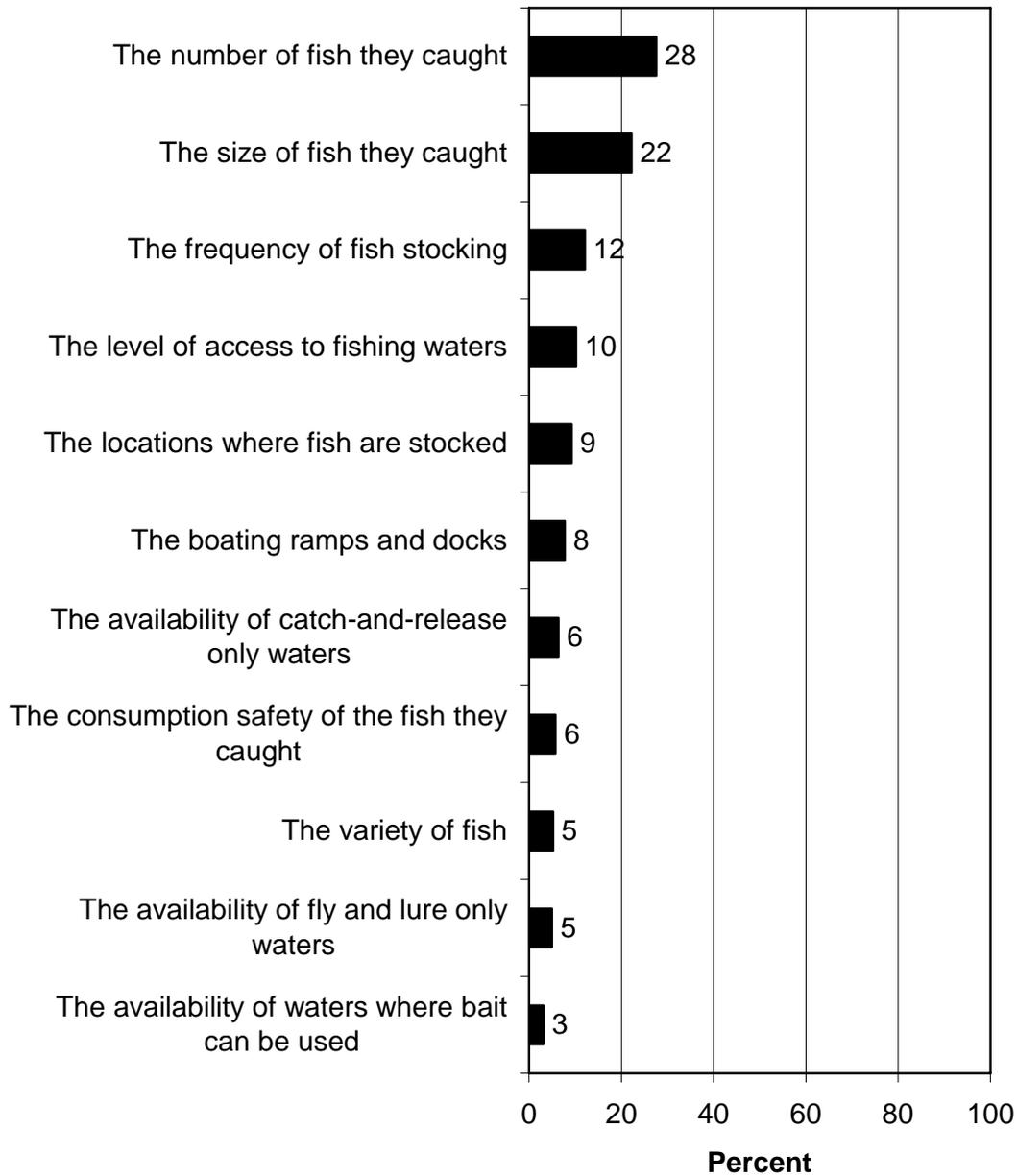
**Q32-Q42. Percent who were very or somewhat satisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**



**Q32-Q42. Percent who were very dissatisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**



**Q32-Q42. Percent who were very or somewhat dissatisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**



**Q32-Q42. Percent who were very satisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**

Aspect of fishing	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
The variety of fish	48	41	46	53	38	24	50	63
The frequency of fish stocking	29	23	20	29	27	24	33	23
The locations where fish are stocked	39	26	20	29	31	24	50	33
The number of fish they caught	23	25	28	31	27	12	16	30
The size of fish they caught	26	27	29	24	23	24	33	25
The level of access to fishing waters	45	34	32	47	40	35	33	50
The availability of fly and lure only waters	32	14	10	27	13	6	33	24
The availability of waters where bait can be used	45	32	25	48	46	47	50	50
The availability of catch-and-release only waters	35	16	14	23	19	18	50	26
The consumption safety of the fish they caught	42	41	34	40	54	59	67	53
The boating ramps and docks	35	23	26	31	35	18	50	37

**Q32-Q42. Percent who were very satisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**

Aspect of fishing	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
The variety of fish	46	37	56	47	62	44	55	53
The frequency of fish stocking	18	24	33	27	31	21	31	27
The locations where fish are stocked	15	25	42	28	46	22	31	26
The number of fish they caught	25	22	31	24	23	25	29	31
The size of fish they caught	25	25	31	25	23	26	36	36
The level of access to fishing waters	51	54	49	37	54	49	52	56
The availability of fly and lure only waters	16	24	18	24	31	23	24	28
The availability of waters where bait can be used	49	42	48	40	62	46	55	35
The availability of catch-and-release only waters	20	31	26	18	54	14	34	23
The consumption safety of the fish they caught	49	49	47	37	38	40	48	38
The boating ramps and docks	36	33	27	31	38	28	45	44

**Q32-Q42. Percent who were very or somewhat satisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**

Aspect of fishing	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
The variety of fish	81	81	75	89	83	71	100	85
The frequency of fish stocking	58	52	47	45	58	41	67	51
The locations where fish are stocked	68	53	47	50	67	47	83	54
The number of fish they caught	61	60	63	66	69	53	84	60
The size of fish they caught	65	66	57	58	67	65	67	59
The level of access to fishing waters	77	62	60	71	77	71	67	80
The availability of fly and lure only waters	48	27	29	45	31	24	33	37
The availability of waters where bait can be used	68	66	47	73	81	76	50	68
The availability of catch-and-release only waters	55	34	33	40	37	41	50	41
The consumption safety of the fish they caught	74	64	58	71	81	71	84	72
The boating ramps and docks	61	52	47	55	67	41	83	61

**Q32-Q42. Percent who were very or somewhat satisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**

Aspect of fishing	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
The variety of fish	80	87	90	87	100	80	83	79
The frequency of fish stocking	44	52	62	62	31	43	53	46
The locations where fish are stocked	43	54	62	57	61	54	55	46
The number of fish they caught	54	64	63	59	62	60	66	55
The size of fish they caught	59	60	67	60	69	69	64	68
The level of access to fishing waters	84	79	78	81	85	75	76	82
The availability of fly and lure only waters	28	48	37	47	46	32	34	46
The availability of waters where bait can be used	70	69	69	76	85	74	69	60
The availability of catch-and-release only waters	38	46	43	43	69	27	40	44
The consumption safety of the fish they caught	67	75	72	65	54	60	66	56
The boating ramps and docks	71	64	62	69	69	62	59	61

**Q32-Q42. Percent who were very dissatisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**

Aspect of fishing	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
The variety of fish	0	1	3	3	0	0	0	1
The frequency of fish stocking	0	3	4	7	8	6	0	2
The locations where fish are stocked	3	1	3	5	4	0	0	2
The number of fish they caught	6	8	9	10	4	0	16	7
The size of fish they caught	3	1	1	6	4	0	0	5
The level of access to fishing waters	6	1	3	3	4	0	0	2
The availability of fly and lure only waters	3	0	3	2	0	6	0	1
The availability of waters where bait can be used	3	0	1	2	0	0	0	2
The availability of catch-and-release only waters	3	0	4	2	4	0	0	2
The consumption safety of the fish they caught	0	3	5	3	0	0	0	2
The boating ramps and docks	3	0	0	2	2	0	0	2

**Q32-Q42. Percent who were very dissatisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**

Aspect of fishing	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
The variety of fish	5	2	3	0	0	1	0	1
The frequency of fish stocking	8	3	3	3	0	4	3	1
The locations where fish are stocked	7	4	3	3	0	2	2	1
The number of fish they caught	13	15	11	13	23	11	9	11
The size of fish they caught	11	10	8	13	16	6	7	6
The level of access to fishing waters	2	2	4	1	0	5	5	3
The availability of fly and lure only waters	0	0	4	0	0	0	0	1
The availability of waters where bait can be used	2	6	2	1	0	0	0	1
The availability of catch-and-release only waters	2	3	4	0	0	0	0	1
The consumption safety of the fish they caught	3	3	3	4	7	1	0	1
The boating ramps and docks	0	3	2	0	7	1	0	1

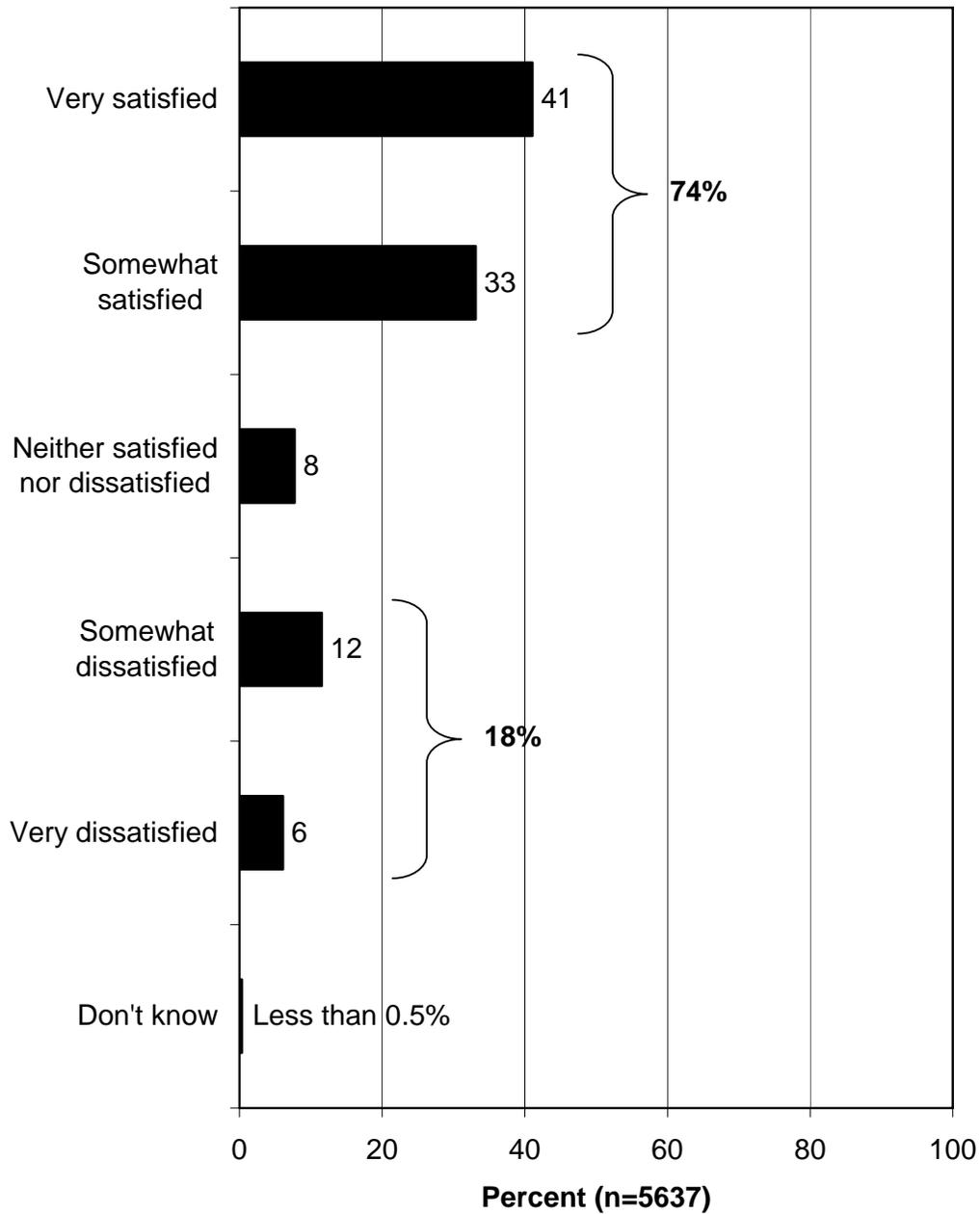
**Q32-Q42. Percent who were very or somewhat dissatisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**

Aspect of fishing	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
The variety of fish	6	4	12	3	4	18	0	4
The frequency of fish stocking	16	18	7	19	19	24	0	13
The locations where fish are stocked	13	10	7	16	13	12	0	8
The number of fish they caught	29	20	22	21	19	24	16	28
The size of fish they caught	29	16	17	23	21	29	17	25
The level of access to fishing waters	13	15	20	16	10	24	33	7
The availability of fly and lure only waters	10	8	9	3	2	18	0	5
The availability of waters where bait can be used	16	4	5	2	4	0	0	2
The availability of catch-and-release only waters	13	1	7	5	8	0	0	7
The consumption safety of the fish they caught	3	6	17	3	0	0	0	5
The boating ramps and docks	6	18	9	16	10	0	0	7

**Q32-Q42. Percent who were very or somewhat dissatisfied with each of the following in Arizona. (Asked of those who personally fished in Arizona in 2013.)**

Aspect of fishing	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
The variety of fish	8	6	5	3	0	9	10	4
The frequency of fish stocking	18	15	7	6	31	17	7	4
The locations where fish are stocked	21	10	8	7	16	15	5	6
The number of fish they caught	28	31	32	28	23	27	19	29
The size of fish they caught	18	28	21	22	31	17	19	13
The level of access to fishing waters	8	9	16	7	7	14	16	8
The availability of fly and lure only waters	2	3	7	0	0	6	5	3
The availability of waters where bait can be used	3	7	5	1	0	0	2	4
The availability of catch-and-release only waters	5	9	10	3	0	2	3	3
The consumption safety of the fish they caught	5	5	6	7	23	14	3	1
The boating ramps and docks	10	7	7	7	7	6	7	5

**Q245. Overall, how satisfied or dissatisfied are you with your most recent fishing trip in Arizona?  
(Asked of those who personally fished in Arizona in 2013.)**



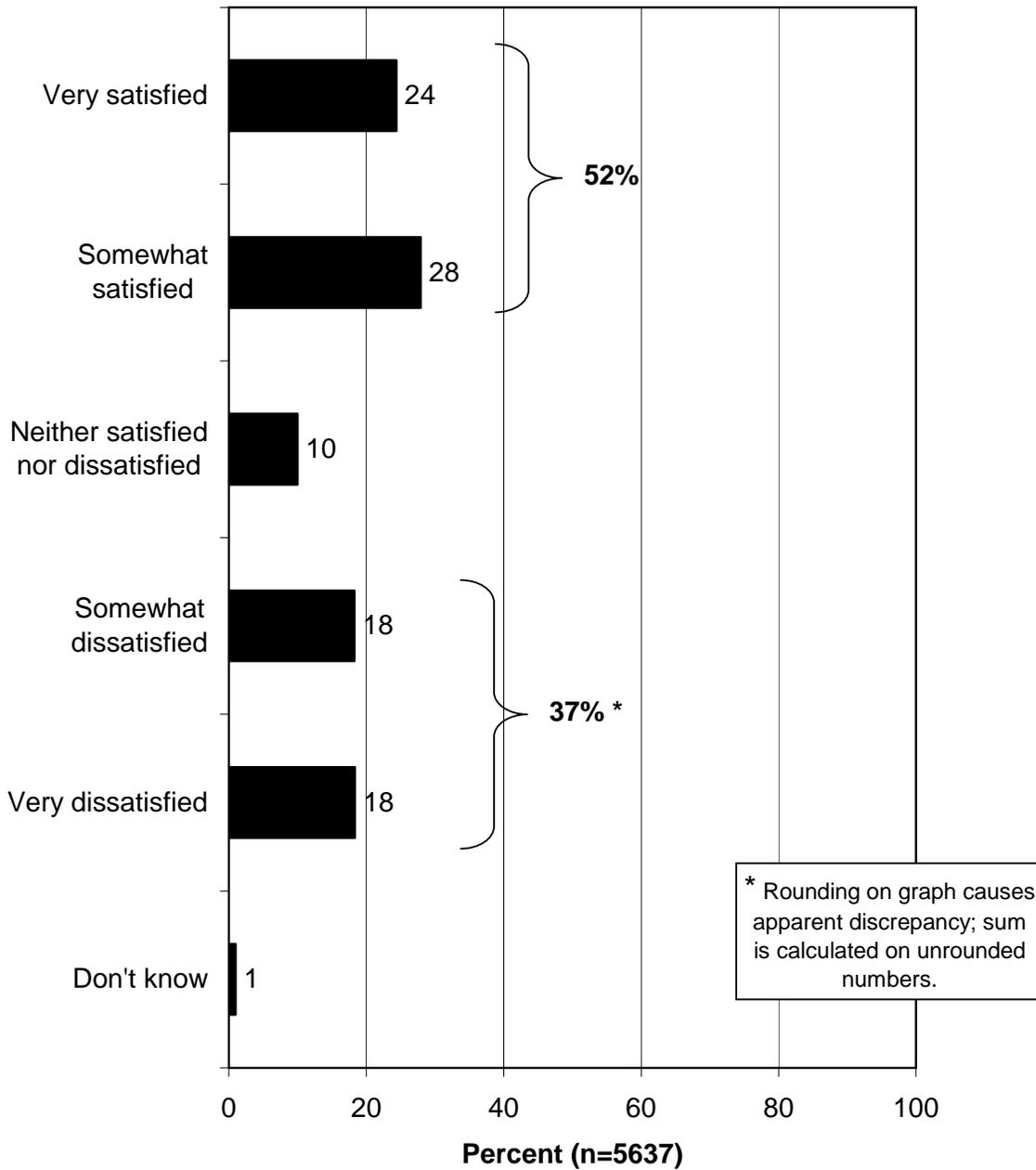
**Q245. Overall, how satisfied or dissatisfied are you with your most recent fishing trip in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Very satisfied	38	35	34	32	37	24	42	43
Somewhat satisfied	34	33	37	37	36	34	24	32
Neither satisfied nor dissatisfied	9	10	12	8	8	13	15	8
Somewhat dissatisfied	10	14	11	13	14	22	11	12
Very dissatisfied	8	7	5	10	5	7	8	5
Don't know	0	1	0	0	0	0	0	0

**Q245. Overall, how satisfied or dissatisfied are you with your most recent fishing trip in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Very satisfied	40	38	46	34	38	36	37	44
Somewhat satisfied	33	32	30	41	37	33	40	37
Neither satisfied nor dissatisfied	9	10	6	8	16	8	9	4
Somewhat dissatisfied	10	12	10	9	7	13	8	10
Very dissatisfied	8	8	8	7	3	9	6	5
Don't know	0	0	1	0	0	1	1	1

**Q246. How satisfied or dissatisfied are you with the number of fish you caught on your most recent fishing trip in Arizona? (Asked of those who personally fished in Arizona in 2013.)**



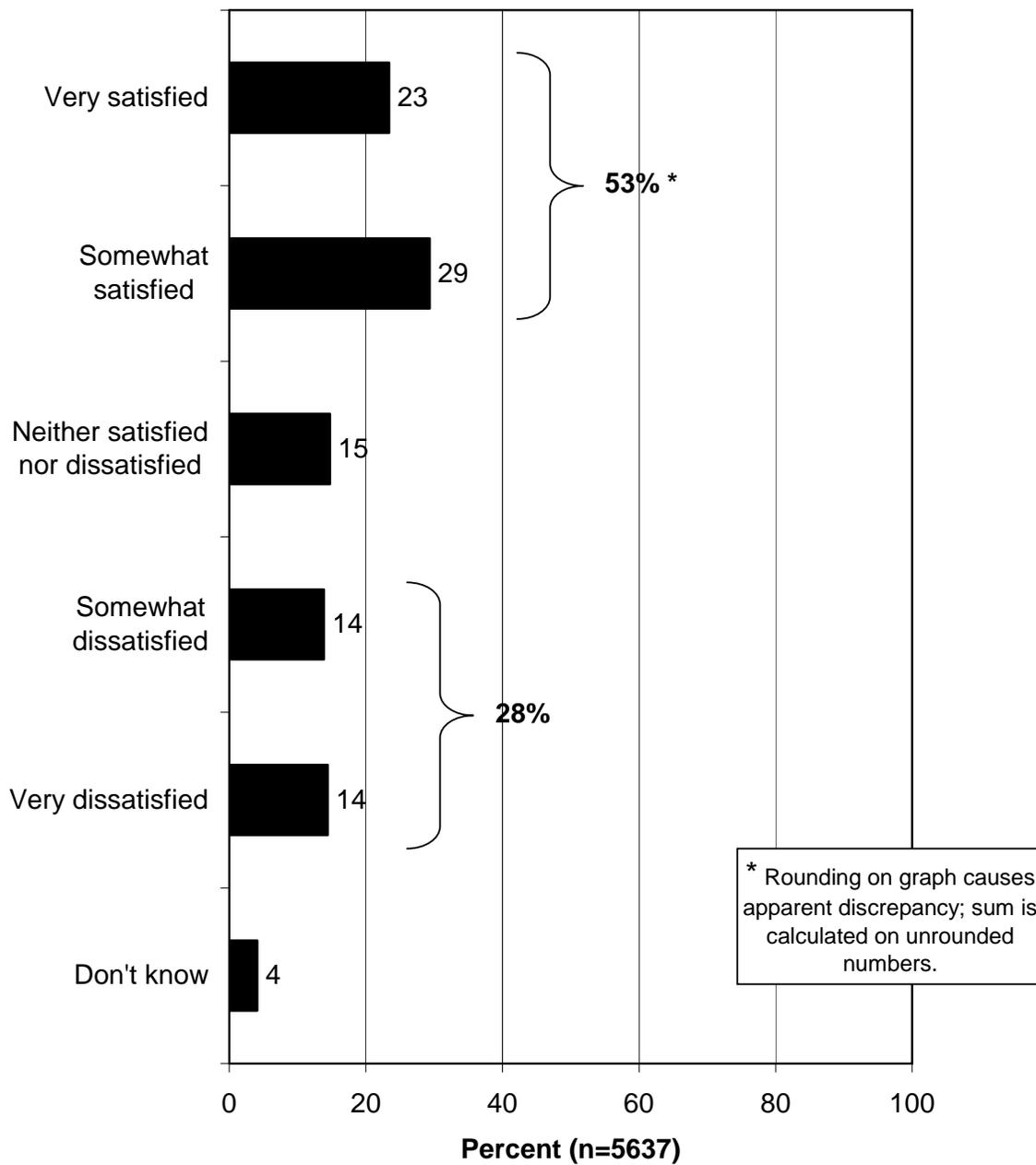
**Q246. How satisfied or dissatisfied are you with the number of fish you caught on your most recent fishing trip in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Very satisfied	27	18	23	23	22	16	26	25
Somewhat satisfied	24	25	34	27	29	28	24	27
Neither satisfied nor dissatisfied	8	13	11	11	10	13	14	10
Somewhat dissatisfied	25	23	17	17	23	19	21	18
Very dissatisfied	17	20	15	22	17	22	15	19
Don't know	0	1	1	1	0	1	0	1

**Q246. How satisfied or dissatisfied are you with the number of fish you caught on your most recent fishing trip in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Very satisfied	21	26	27	20	21	23	22	24
Somewhat satisfied	26	26	28	31	38	27	33	33
Neither satisfied nor dissatisfied	15	8	7	10	14	9	14	6
Somewhat dissatisfied	18	21	18	22	14	18	17	19
Very dissatisfied	20	19	18	17	13	22	14	16
Don't know	0	1	1	1	0	1	0	3

**Q247. How satisfied or dissatisfied are you with the size of fish you caught on your most recent fishing trip in Arizona? (Asked of those who personally fished in Arizona in 2013.)**



**Q247. How satisfied or dissatisfied are you with the size of fish you caught on your most recent fishing trip in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Very satisfied	28	17	17	23	21	20	29	23
Somewhat satisfied	25	30	33	33	30	24	28	28
Neither satisfied nor dissatisfied	14	19	18	13	17	12	14	16
Somewhat dissatisfied	14	13	19	13	14	22	17	13
Very dissatisfied	16	16	11	15	16	14	10	15
Don't know	2	5	2	4	2	8	3	4

**Q247. How satisfied or dissatisfied are you with the size of fish you caught on your most recent fishing trip in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Very satisfied	22	25	28	20	21	19	23	30
Somewhat satisfied	29	25	30	36	32	32	31	32
Neither satisfied nor dissatisfied	16	12	11	14	21	14	16	9
Somewhat dissatisfied	13	20	14	14	11	12	15	13
Very dissatisfied	16	15	13	11	14	17	11	10
Don't know	5	4	4	5	0	6	3	6

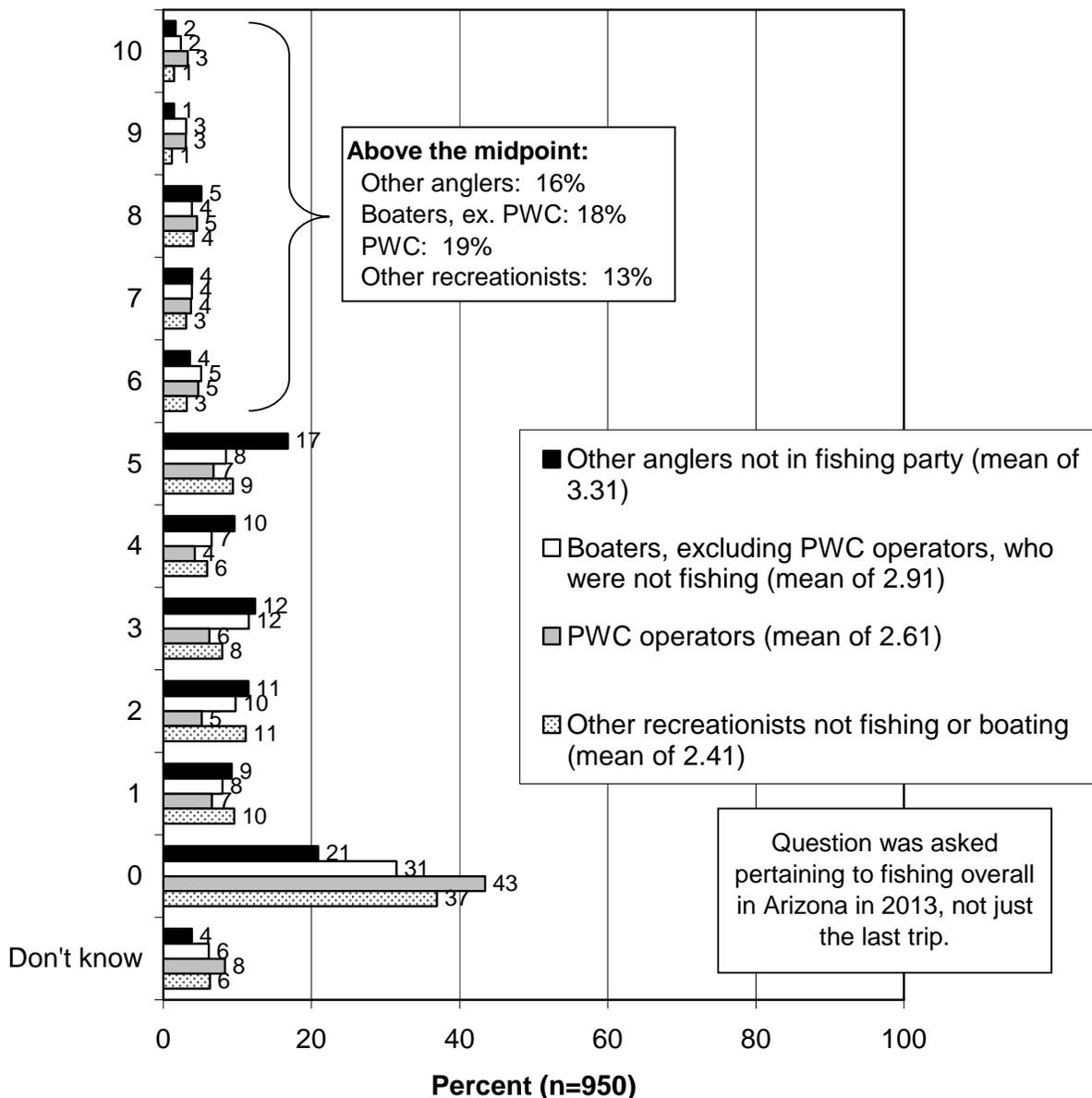
## PERCEPTIONS OF CROWDING AT FISHING AREAS

- Four questions asked about crowding overall in Arizona in 2013 when active anglers were fishing. In general, ratings of crowding were relatively low (no higher than 3.31 on a 0 to 10 scale, with 0 being not at all crowded and 10 being extremely crowded). Nonetheless, not insubstantial percentages gave a rating of higher than the midpoint (ranging from 13% to 19%). The highest mean rating was for crowding from other anglers (3.31); the highest percentage above the midpoint was for crowding from personal watercraft (referred to as PWC) operators (19% above the midpoint).
  
- Another question asked about crowding on active anglers' most recent fishing trip in Arizona. The mean rating was well below the midpoint, at 3.40. More than a fifth of active anglers (22%) gave the question the lowest rating of 0, and a large majority (64%) gave a rating below the midpoint. However, 21% gave a rating above the midpoint, suggesting that crowding was an issue for about 1 in 5 active anglers in Arizona on their last trip.
  
- Three additional questions asked active anglers about their most recent fishing trip: the first asked them how many other anglers not in their fishing party that they saw each day, the second asked how many other anglers they expected to see, and the third asked them how many other anglers would have been acceptable.
  - Regarding the number of other anglers that they saw, the answers range widely from no other anglers to more than 50. The mean number is 17.8 other anglers, and the median answer is 10 other anglers.
  - It would appear that active anglers saw about the number of other anglers that they expected to see: the mean is 18.7 other anglers, and the median is 10 other anglers.
  - Although active anglers saw about the number of anglers they expected to see, it is worth noting that the number they saw, in general, is close to their threshold. When asked about the number of other anglers that would be acceptable to see, the mean is 21.6 other anglers, and the median is 12 other anglers, not much greater than what active anglers actually saw.
  - An analysis put two of these questions together, finding that 18% saw more other anglers than their threshold, 29% saw the same as their threshold, and 42% saw fewer other

anglers than their threshold (the remaining 11% answered “don’t know” to either of the two questions used in this analysis—Q248, the number seen; and Q250, their threshold).

- Another question specific to active anglers’ last trip found that they were about evenly split regarding whether other anglers not in their fishing party were using or wanted to use the same fishing area that they (the respondents) were using. When presented with the statement, “Other anglers not in my fishing party wanted to use or were using the same fishing areas that I was using during my fishing trip to \_\_\_\_\*”, 43% of active anglers agreed, while 37% disagreed—a difference of only 6 percentage points.
- A follow-up question asked anglers to estimate the distance, in yards, to the closest angler not in their party on that trip. The responses ran the gamut, from having other anglers 1-5 yards away, to not having any other anglers around. The median distance was 50 yards.
  - \* The survey inserted the name of the location of each angler’s most recent fishing trip in the question, based on his/her earlier answer in the survey about the location.

**Q262-265. On a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded, how would you rate how crowded you felt by [other anglers not in your fishing party / boaters, not including PWC operators, who were not fishing / operators of personal watercraft, such as Jet Skis / other recreationists who were not fishing or boating]? (Asked of those who personally fished in Arizona in 2013.)**



**Q262. How would you rate how crowded you felt by other anglers on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded?**

Rating	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
10	3	2	0	4	3	0	0	2
9	0	2	3	6	7	7	0	1
8	0	2	1	7	3	0	11	7
7	3	12	8	0	3	0	0	4
6	3	10	3	4	10	0	6	4
5	26	8	13	13	14	20	6	18
4	6	10	9	17	7	20	6	10
3	6	14	11	19	7	20	17	12
2	16	10	20	7	17	0	11	10
1	6	2	11	7	3	13	11	9
0	26	24	16	15	17	20	34	18
Don't know	3	6	7	2	10	0	0	2

**Q262. How would you rate how crowded you felt by other anglers on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded?**

Rating	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
10	0	0	0	4	0	1	0	0
9	2	3	3	3	0	0	1	0
8	2	4	5	3	0	1	1	1
7	0	4	2	8	0	3	1	4
6	0	1	1	1	0	9	2	2
5	0	13	22	21	0	13	12	20
4	10	16	7	8	10	9	4	10
3	10	12	17	8	0	11	11	11
2	13	13	13	16	20	12	12	10
1	15	10	11	5	20	4	14	8
0	40	16	18	16	40	23	39	29
Don't know	8	7	0	8	10	13	2	4

**Q263. How would you rate how crowded you felt by boaters, not including PWC operators, who were not fishing, on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded?**

Rating	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
10	6	2	0	2	0	7	0	3
9	0	2	1	2	0	0	11	5
8	3	4	3	6	7	0	0	4
7	3	0	0	4	0	0	0	5
6	0	2	8	7	7	7	5	6
5	3	8	14	9	10	0	11	8
4	13	8	7	9	3	13	5	7
3	6	14	7	11	17	7	16	14
2	13	10	16	15	13	0	23	7
1	6	8	8	4	3	13	5	7
0	39	39	30	28	30	47	23	28
Don't know	6	4	7	4	10	7	0	5

**Q263. How would you rate how crowded you felt by boaters, not including PWC operators, who were not fishing, on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded?**

Rating	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
10	2	0	2	1	0	3	1	0
9	4	1	0	0	0	3	0	0
8	10	1	2	3	0	5	4	2
7	10	3	0	1	0	3	2	7
6	2	3	5	5	0	4	5	2
5	6	12	8	9	10	7	6	9
4	10	12	5	8	0	5	5	2
3	10	3	14	4	10	7	4	9
2	10	17	15	13	0	9	8	7
1	6	10	9	12	30	8	11	8
0	29	29	32	36	40	29	51	49
Don't know	4	9	7	8	10	17	4	6

**Q264. How would you rate how crowded you felt by PWC operators, that is, operators of personal watercraft, such as Jet Skis, WaveRunners, and Sea Doos, on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded?**

Rating	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
10	0	2	0	6	0	7	0	5
9	0	0	1	0	0	0	11	4
8	6	2	5	4	7	0	6	5
7	0	2	1	6	3	0	6	5
6	0	2	5	4	3	0	6	7
5	6	4	5	6	0	0	6	8
4	3	2	4	7	3	7	6	5
3	0	8	7	17	7	0	11	7
2	13	6	10	2	7	0	6	3
1	6	2	8	7	7	7	0	7
0	58	67	43	41	50	67	45	37
Don't know	6	4	9	2	13	13	0	7

**Q264. How would you rate how crowded you felt by PWC operators, that is, operators of personal watercraft, such as Jet Skis, WaveRunners, and Sea Doos, on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded?**

Rating	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
10	10	0	0	1	0	3	0	0
9	6	1	0	1	0	5	5	0
8	13	6	2	4	0	4	1	2
7	6	0	2	0	0	3	4	3
6	2	1	3	4	0	0	5	2
5	6	3	4	7	0	7	5	8
4	2	6	4	3	20	3	4	1
3	4	6	6	5	0	5	4	4
2	10	13	4	9	0	8	7	4
1	6	7	5	8	20	9	7	4
0	35	45	57	50	49	36	56	62
Don't know	2	12	13	8	10	17	4	8

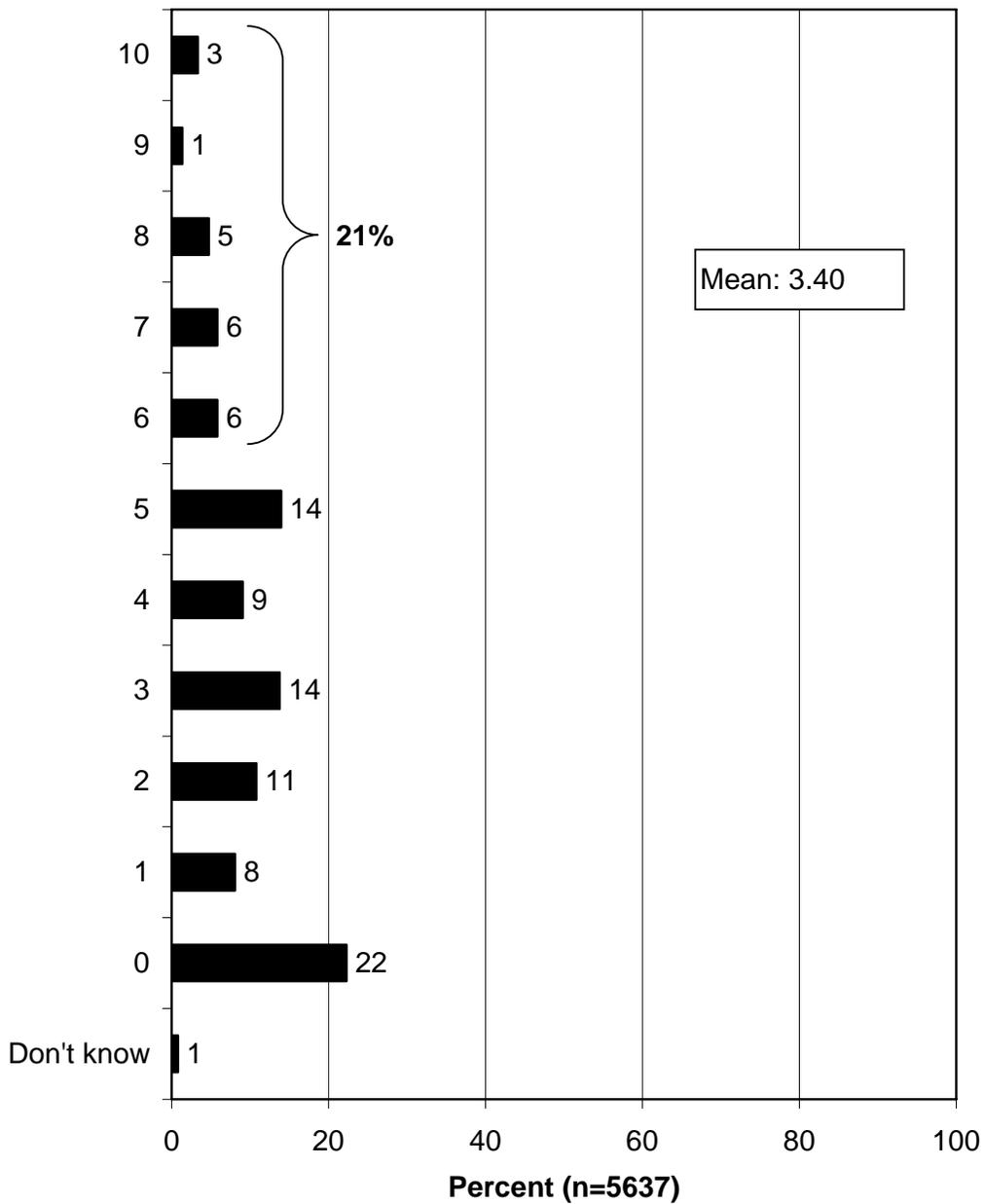
**Q265. How would you rate how crowded you felt by other recreationists who were not fishing or boating on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded?**

Rating	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
10	3	2	0	2	0	7	6	2
9	3	0	0	0	7	0	6	1
8	0	2	4	4	7	0	6	5
7	0	2	1	2	0	0	0	4
6	3	6	1	4	0	7	0	4
5	3	2	8	13	10	0	17	12
4	10	10	4	7	0	0	6	7
3	3	10	3	15	10	7	11	8
2	19	6	17	13	3	13	11	12
1	13	12	12	7	17	7	17	7
0	35	45	42	30	37	53	23	32
Don't know	6	4	8	4	10	7	0	6

**Q265. How would you rate how crowded you felt by other recreationists who were not fishing or boating on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded?**

Rating	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
10	2	3	0	5	0	1	0	0
9	2	1	2	4	0	0	4	0
8	6	1	5	0	0	4	4	0
7	0	0	1	0	0	5	4	4
6	0	1	2	4	0	3	2	1
5	6	7	7	7	0	5	7	9
4	4	6	4	5	10	4	1	3
3	2	7	9	5	0	15	7	6
2	13	16	9	12	0	8	8	7
1	10	9	16	13	40	7	13	9
0	50	40	40	37	40	32	44	57
Don't know	6	7	4	8	10	16	6	4

**Q260. Overall, how crowded would you describe your most recent fishing trip in Arizona on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded? (Asked of those who personally fished in Arizona in 2013.)**



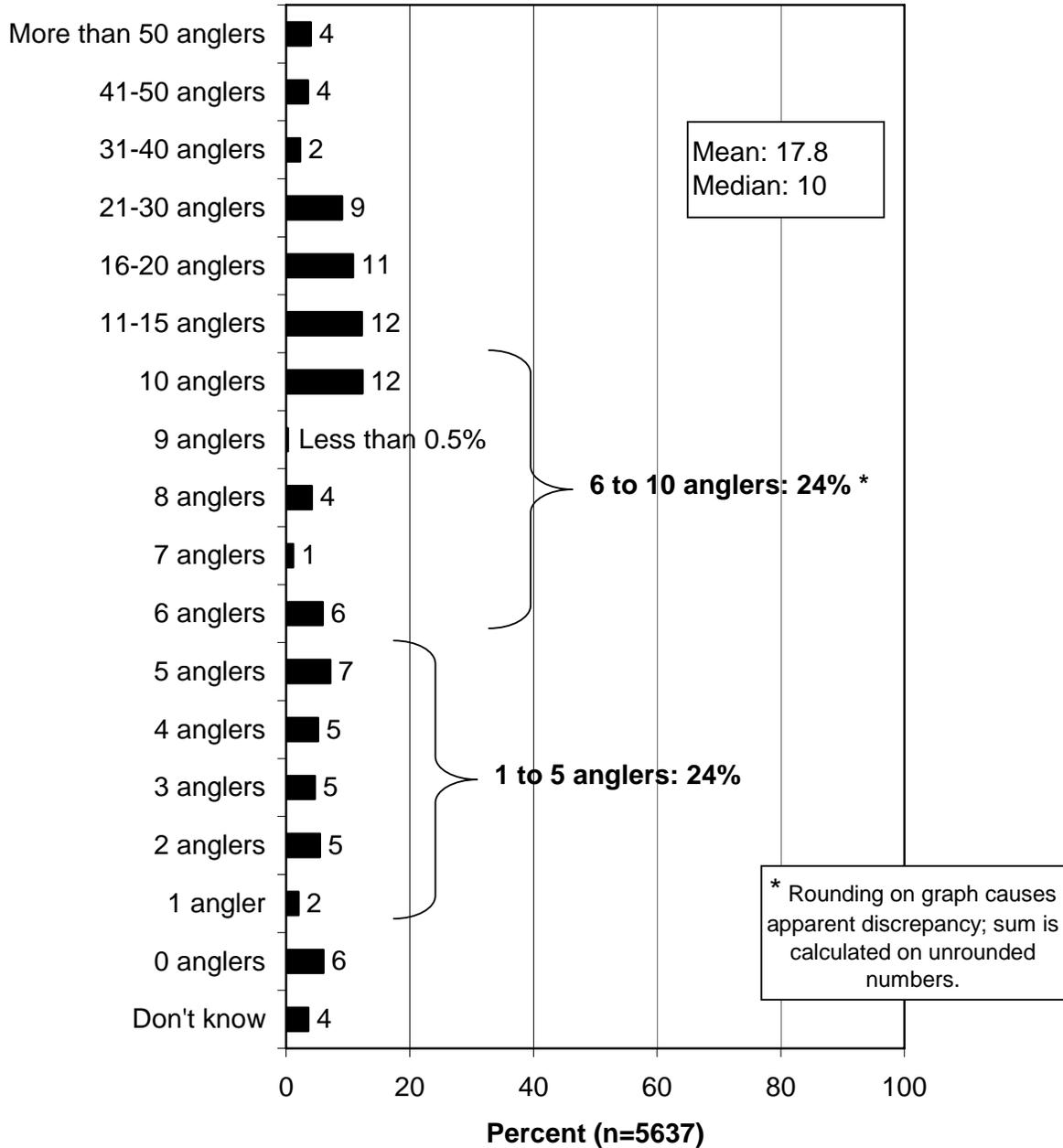
**Q260. Overall, how crowded would you describe your most recent fishing trip in Arizona on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded? (Asked of those who personally fished in Arizona in 2013.)**

Rating	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
10	2	3	1	4	4	5	1	4
9	1	1	2	0	2	0	1	1
8	4	6	4	4	4	3	4	5
7	5	8	6	5	6	5	4	6
6	6	4	6	3	7	12	8	7
5	13	16	14	11	17	12	11	15
4	10	9	10	9	11	8	4	9
3	14	15	13	14	13	11	4	14
2	12	13	12	12	8	12	13	10
1	14	9	9	9	6	14	13	7
0	20	14	24	27	21	16	35	21
Don't know	0	1	0	2	1	1	1	1

**Q260. Overall, how crowded would you describe your most recent fishing trip in Arizona on a scale of 0 to 10, where 0 is not at all crowded and 10 is extremely crowded? (Asked of those who personally fished in Arizona in 2013.)**

Rating	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
10	2	2	5	3	0	2	2	2
9	2	2	2	2	3	2	1	1
8	4	3	5	8	6	2	2	4
7	2	7	7	6	4	4	4	5
6	2	6	7	5	4	5	4	4
5	6	13	16	18	11	14	11	11
4	5	10	10	9	8	10	5	10
3	14	16	14	13	21	12	12	12
2	15	13	10	10	14	11	10	13
1	10	7	8	9	10	12	10	10
0	36	22	16	16	18	25	38	27
Don't know	1	1	0	2	0	1	1	2

**Q248. While fishing at [most recent trip location], about how many other anglers not in your fishing party did you see per day? (Asked of those who personally fished in Arizona in 2013.)**



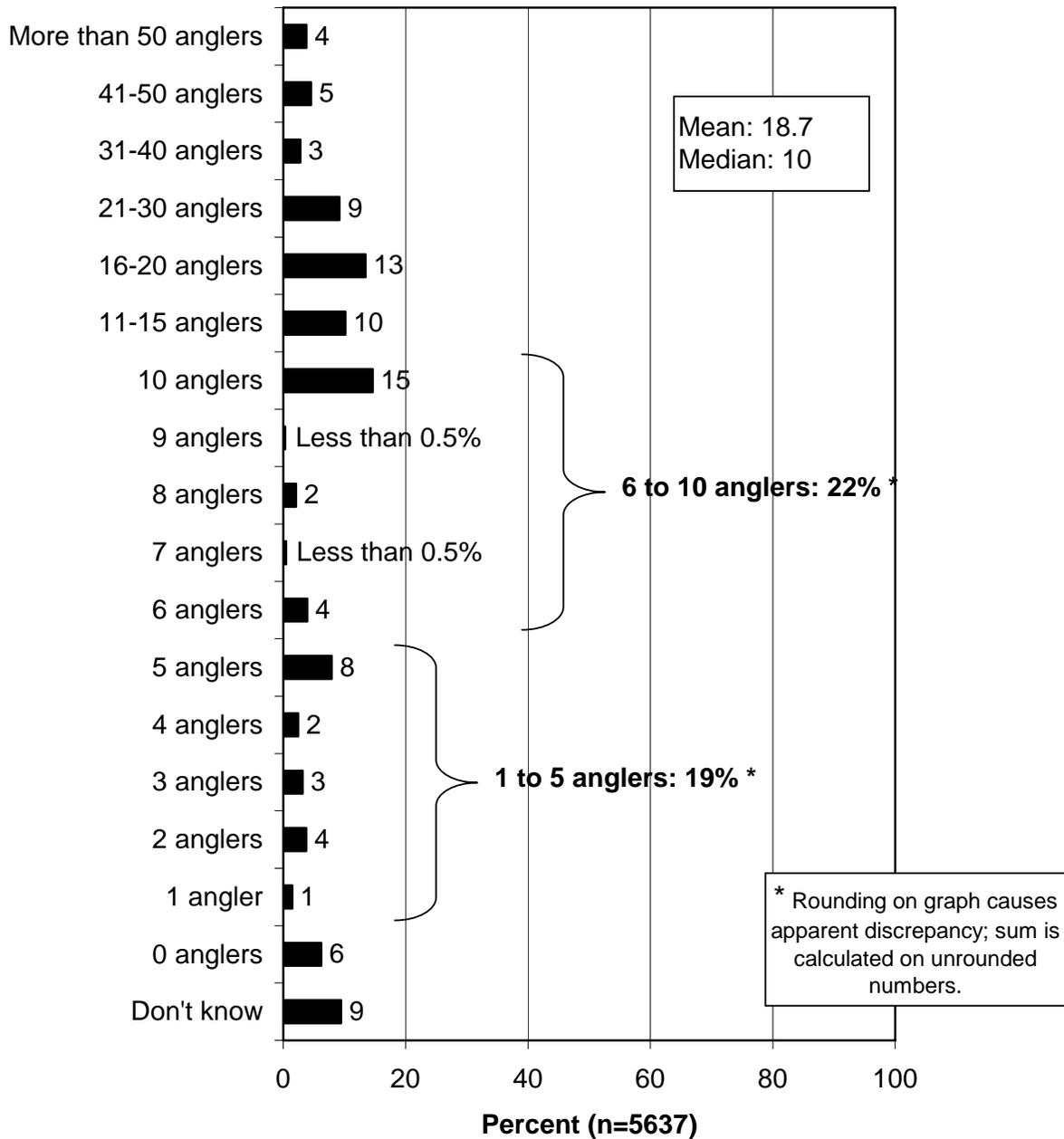
**Q248. While fishing at [most recent trip location], about how many other anglers not in your fishing party did you see per day? (Asked of those who personally fished in Arizona in 2013.)**

<b>Number of other anglers seen</b>	<b>Apache</b>	<b>Cochise</b>	<b>Coconino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
More than 50 anglers	4	4	3	2	4	5	1	5
41-50 anglers	5	5	2	4	4	0	3	4
31-40 anglers	3	2	1	3	2	3	1	2
21-30 anglers	11	9	10	10	6	7	7	9
16-20 anglers	8	15	10	9	8	9	8	12
11-15 anglers	12	15	11	10	13	5	4	13
10 anglers	12	14	15	16	11	12	8	12
9 anglers	1	0	0	0	0	0	0	0
8 anglers	3	3	3	5	4	7	6	5
7 anglers	0	3	2	0	3	0	1	1
6 anglers	8	7	5	6	3	5	3	6
5 anglers	8	6	9	6	8	7	8	7
4 anglers	4	4	4	5	4	9	1	5
3 anglers	3	3	5	5	11	8	10	4
2 anglers	7	3	7	6	7	7	11	5
1 angler	2	1	3	2	1	5	6	2
0 anglers	5	3	7	7	7	7	19	6
Don't know	3	2	3	4	5	3	1	3

**Q248. While fishing at [most recent trip location], about how many other anglers not in your fishing party did you see per day? (Asked of those who personally fished in Arizona in 2013.)**

Number of other anglers seen	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
More than 50 anglers	2	2	5	6	0	3	1	3
41-50 anglers	1	4	4	5	4	2	1	3
31-40 anglers	1	2	3	2	0	1	1	3
21-30 anglers	5	7	13	9	0	6	4	9
16-20 anglers	9	11	12	13	8	11	3	8
11-15 anglers	9	12	14	12	20	9	8	13
10 anglers	12	15	14	15	14	13	10	10
9 anglers	0	1	0	0	3	0	0	1
8 anglers	4	5	4	2	1	4	4	4
7 anglers	2	1	1	1	3	1	1	2
6 anglers	5	6	5	6	6	7	8	7
5 anglers	8	9	4	5	14	8	10	6
4 anglers	7	6	4	5	6	7	9	4
3 anglers	10	4	3	3	0	4	9	6
2 anglers	10	5	4	3	10	7	11	6
1 angler	4	3	1	1	0	4	5	2
0 anglers	8	7	3	4	4	9	12	4
Don't know	2	4	5	6	7	4	2	9

**Q249. While fishing at [most recent trip location], about how many other anglers not in your fishing party did you expect to see per day? (Asked of those who personally fished in Arizona in 2013.)**



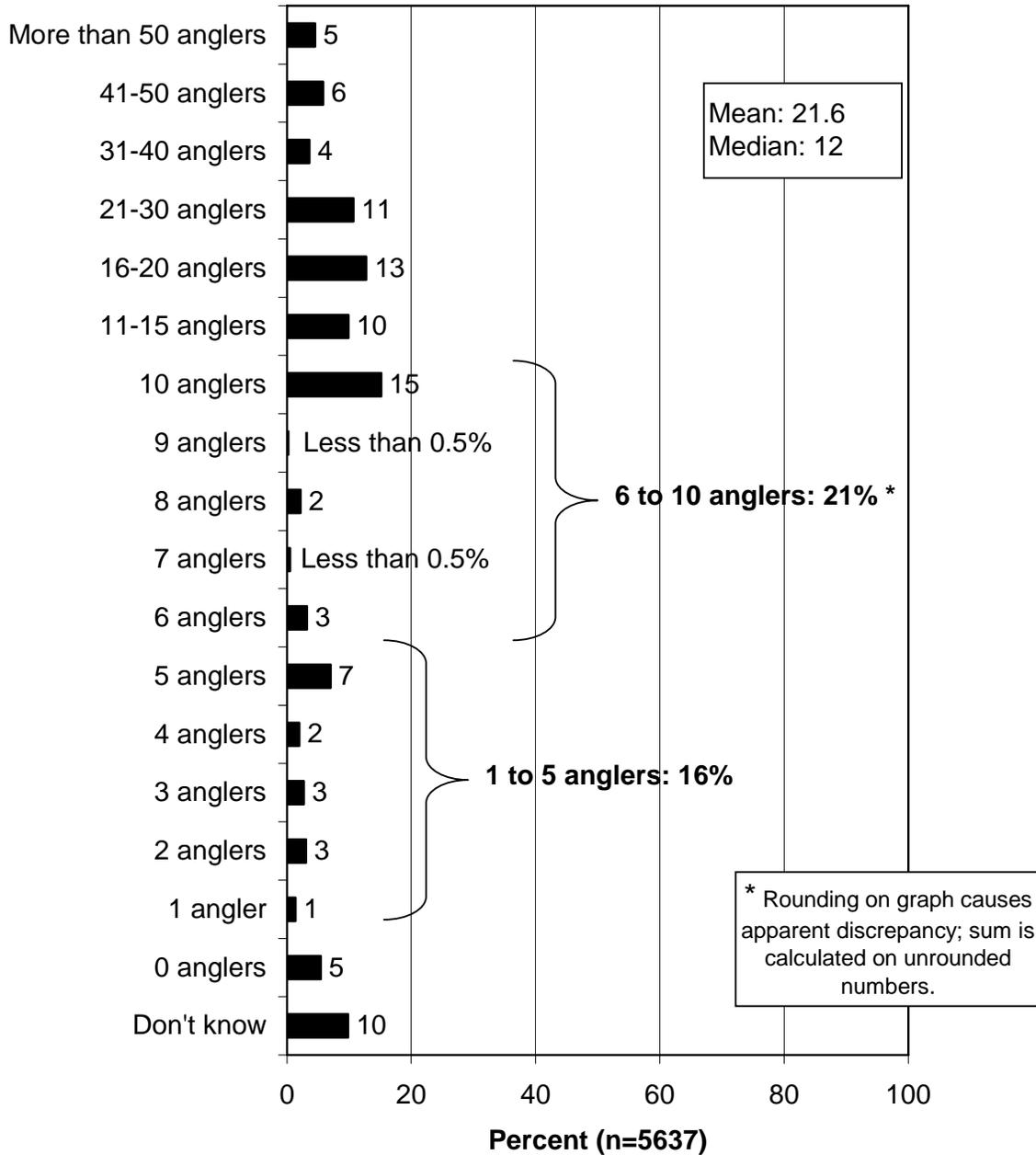
**Q249. While fishing at [most recent trip location], about how many other anglers not in your fishing party did you expect to see per day? (Asked of those who personally fished in Arizona in 2013.)**

<b>Number of other anglers expected to see</b>	<b>Apache</b>	<b>Cochise</b>	<b>Coconino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
More than 50 anglers	2	3	2	3	2	5	0	4
41-50 anglers	6	6	3	4	5	1	1	6
31-40 anglers	5	4	1	3	1	0	1	4
21-30 anglers	13	12	9	12	8	8	6	9
16-20 anglers	11	16	15	13	7	12	14	15
11-15 anglers	12	15	8	9	8	7	7	10
10 anglers	14	14	17	16	15	15	4	15
9 anglers	0	0	0	0	0	0	0	0
8 anglers	1	1	3	3	2	4	4	2
7 anglers	0	1	1	1	2	0	0	0
6 anglers	4	5	3	2	3	3	4	3
5 anglers	7	7	10	8	6	5	12	9
4 anglers	4	3	3	3	5	7	4	2
3 anglers	3	1	3	1	6	9	7	3
2 anglers	4	2	5	4	7	4	7	4
1 angler	1	0	2	2	2	1	7	1
0 anglers	6	5	7	8	8	5	12	6
Don't know	6	5	6	8	13	12	8	7

**Q249. While fishing at [most recent trip location], about how many other anglers not in your fishing party did you expect to see per day? (Asked of those who personally fished in Arizona in 2013.)**

<b>Number of other anglers expected to see</b>	<b>Mohave</b>	<b>Navajo</b>	<b>Pima</b>	<b>Pinal</b>	<b>Santa Cruz</b>	<b>Yavapai</b>	<b>Yuma</b>	<b>Out-of-State</b>
More than 50 anglers	2	3	6	5	1	2	1	3
41-50 anglers	2	5	3	6	6	2	1	4
31-40 anglers	1	2	3	3	1	2	0	1
21-30 anglers	6	7	12	12	4	8	3	10
16-20 anglers	11	13	16	15	11	11	5	8
11-15 anglers	10	9	14	11	14	9	9	8
10 anglers	13	19	12	12	21	17	17	10
9 anglers	0	0	0	0	0	0	0	0
8 anglers	1	2	4	2	1	2	3	2
7 anglers	1	1	0	0	3	0	0	1
6 anglers	5	4	5	5	3	6	5	6
5 anglers	9	10	4	7	10	7	12	5
4 anglers	5	3	2	3	6	5	6	3
3 anglers	7	4	2	2	0	3	7	3
2 anglers	6	5	2	2	3	4	8	2
1 angler	4	2	1	0	0	3	5	1
0 anglers	11	7	5	4	4	9	12	5
Don't know	9	6	11	10	11	8	5	29

**Q250. While fishing at [most recent trip location], about how many other anglers not in your fishing party would have been acceptable for you to see per day? (Asked of those who personally fished in Arizona in 2013.)**



**Q250. While fishing at [most recent trip location], about how many other anglers not in your fishing party would have been acceptable for you to see per day? (Asked of those who personally fished in Arizona in 2013.)**

Number of other anglers that would have been acceptable to see	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
More than 50 anglers	4	4	5	8	4	5	0	5
41-50 anglers	7	7	5	7	5	1	4	6
31-40 anglers	5	5	2	3	2	0	0	4
21-30 anglers	12	15	10	12	9	11	8	11
16-20 anglers	14	17	14	13	8	11	19	13
11-15 anglers	11	11	11	8	7	11	7	11
10 anglers	13	14	15	12	18	14	3	16
9 anglers	0	0	0	0	0	0	0	0
8 anglers	1	1	2	4	5	1	1	2
7 anglers	0	1	0	1	3	4	0	0
6 anglers	3	4	3	3	4	4	4	2
5 anglers	5	7	9	7	8	12	11	7
4 anglers	2	2	3	2	5	1	6	1
3 anglers	4	1	3	1	4	3	14	3
2 anglers	2	1	5	3	4	7	8	2
1 angler	0	1	2	1	1	3	1	1
0 anglers	4	5	5	5	4	7	6	6
Don't know	10	5	6	9	8	5	7	9

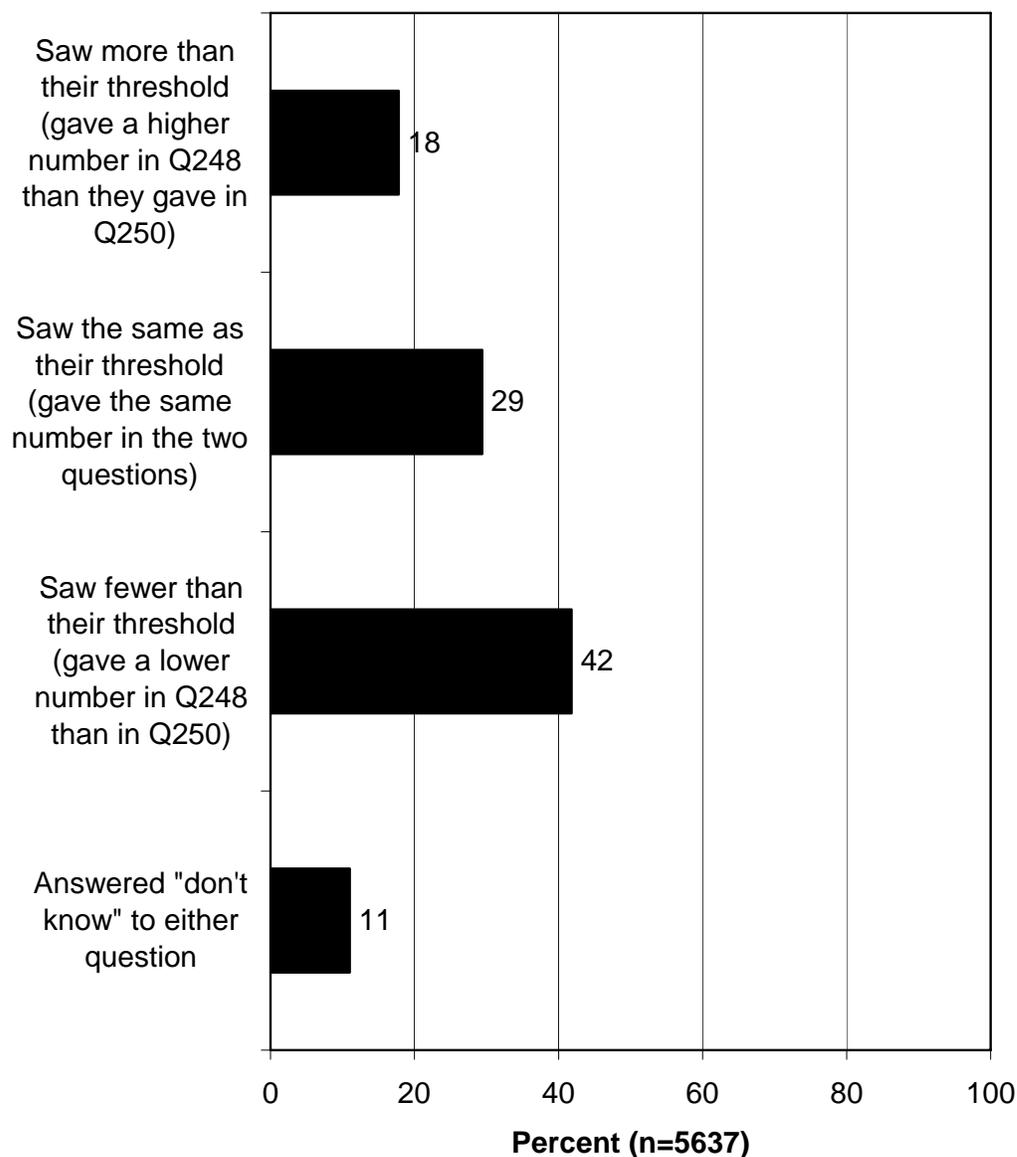
**Q250. While fishing at [most recent trip location], about how many other anglers not in your fishing party would have been acceptable for you to see per day? (Asked of those who personally fished in Arizona in 2013.)**

Number of other anglers that would have been acceptable to see	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
More than 50 anglers	2	4	5	5	4	4	2	5
41-50 anglers	5	6	6	8	6	5	3	8
31-40 anglers	4	2	4	4	0	2	0	4
21-30 anglers	4	10	14	12	6	9	4	9
16-20 anglers	10	16	13	17	9	12	9	8
11-15 anglers	6	9	10	10	17	10	10	8
10 anglers	18	18	13	13	22	16	18	10
9 anglers	0	0	0	0	0	0	0	0
8 anglers	2	2	3	1	1	2	2	3
7 anglers	1	0	0	0	4	0	1	1
6 anglers	5	2	3	3	4	5	6	5
5 anglers	9	8	5	5	6	8	10	7
4 anglers	3	3	2	2	1	3	6	3
3 anglers	4	2	2	2	0	3	7	3
2 anglers	6	4	2	2	3	7	6	2
1 angler	4	1	1	1	0	2	3	1
0 anglers	6	4	4	3	6	4	7	4
Don't know	10	10	12	11	11	8	6	21

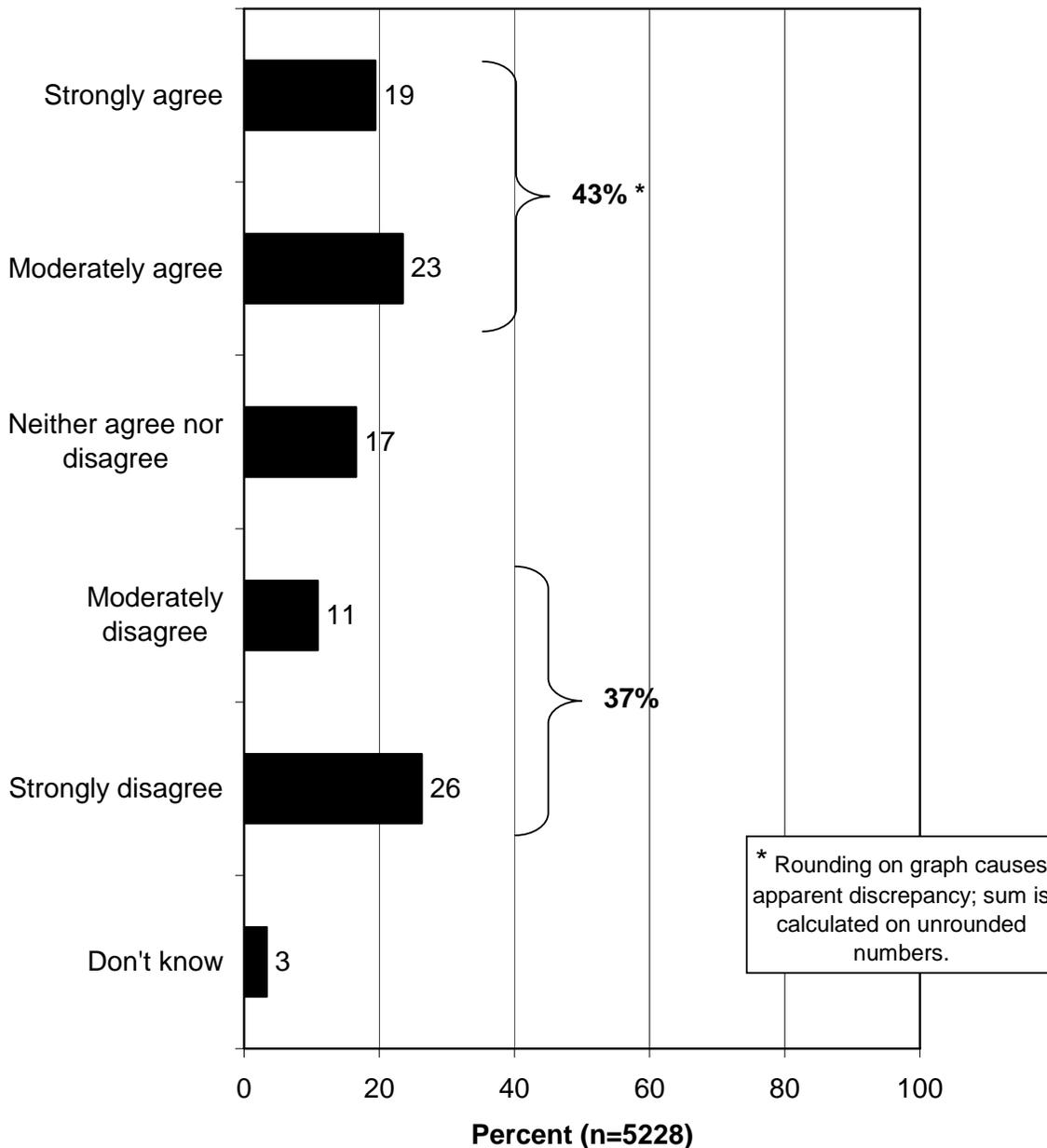
**Q248. While fishing at [most recent trip location], about how many other anglers not in your fishing party did you see per day?**

**Q250. While fishing at [most recent trip location], about how many other anglers not in your fishing party would have been acceptable for you to see per day?**

**(Asked of those who personally fished in Arizona in 2013.)**



**Q251. Please tell me if you agree or disagree with the following statement: Other anglers not in my fishing party wanted to use or were using the same fishing areas that I was using during my fishing trip to [most recent trip location]. (Asked of those who personally fished in Arizona in 2013.)**



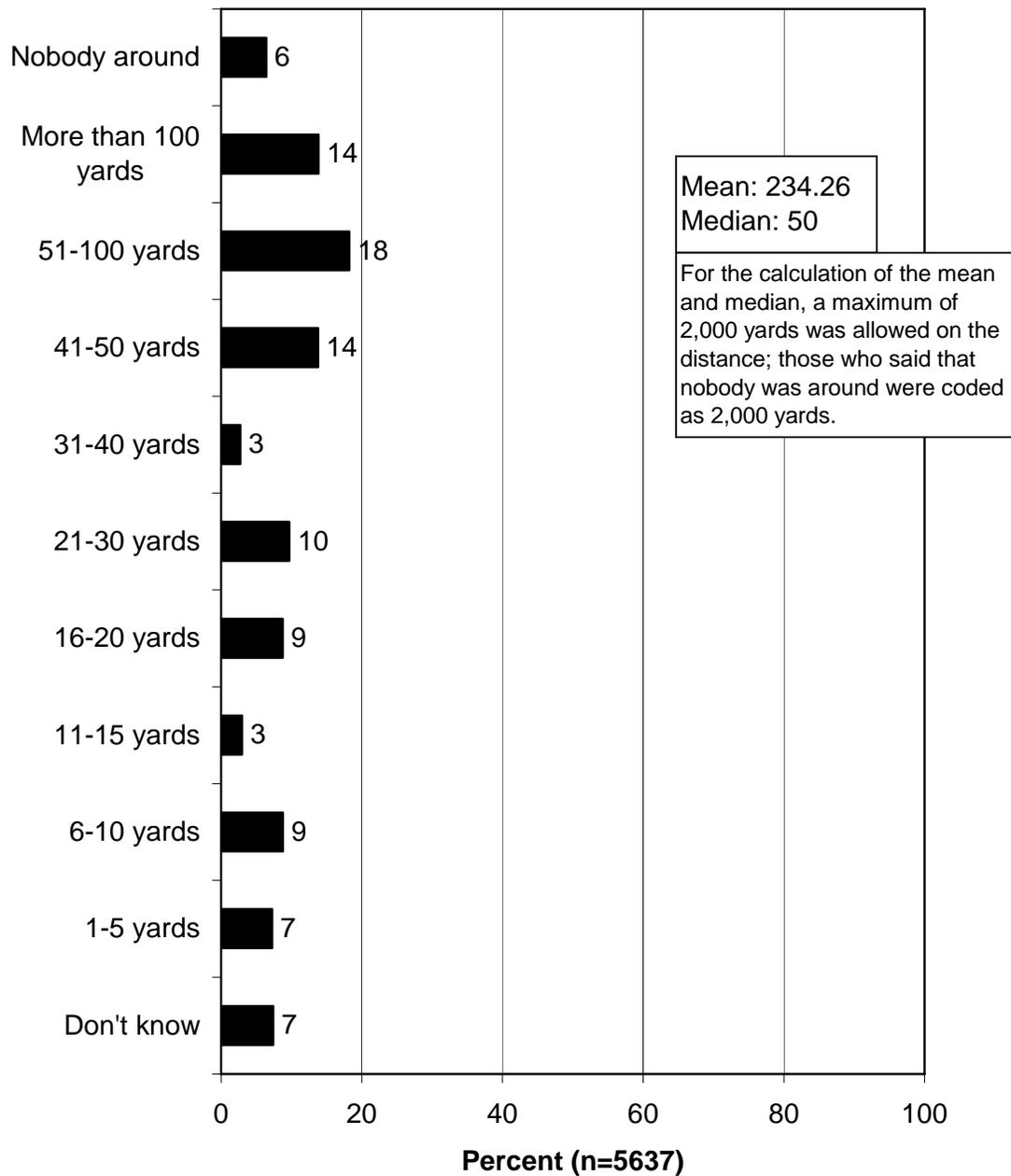
**Q251. Please tell me if you agree or disagree with the following statement: Other anglers not in my fishing party wanted to use or were using the same fishing areas that I was using during my fishing trip to [most recent trip location].**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Strongly agree	19	19	17	17	14	13	21	20
Moderately agree	26	28	24	26	33	23	28	23
Neither agree nor disagree	14	19	19	22	11	16	15	17
Moderately disagree	11	10	11	11	10	12	4	10
Strongly disagree	29	22	28	18	30	31	31	28
Don't know	1	2	2	6	2	4	1	3

**Q251. Please tell me if you agree or disagree with the following statement: Other anglers not in my fishing party wanted to use or were using the same fishing areas that I was using during my fishing trip to [most recent trip location].**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Strongly agree	15	19	23	25	10	15	17	22
Moderately agree	22	25	25	23	21	23	20	22
Neither agree nor disagree	24	21	11	11	21	21	22	10
Moderately disagree	11	10	13	15	11	13	11	11
Strongly disagree	23	21	25	21	30	23	26	30
Don't know	5	3	3	5	7	4	5	6

**Q252. While fishing at [most recent trip location], please estimate the distance, in yards, between you and the closest angler not in your fishing party.**



**Q252. While fishing at [most recent trip location], please estimate the distance, in yards, between you and the closest angler not in your fishing party.**

Distance	Apache	Cochise	Cocoino	Gila	Graham	Greenlee	La Paz	Maricopa
Nobody around	4	5	7	9	7	11	14	5
More than 100 yards	14	14	16	13	9	8	15	14
51-100 yards	18	17	19	17	17	12	18	19
41-50 yards	14	16	13	13	17	8	12	15
31-40 yards	1	2	3	3	4	4	0	3
21-30 yards	11	9	10	8	10	18	6	10
16-20 yards	12	6	9	12	6	8	4	9
11-15 yards	5	3	3	2	5	0	4	2
6-10 yards	8	11	7	9	12	11	6	10
1-5 yards	5	11	6	5	8	12	8	7
Don't know	8	6	7	9	5	8	12	6

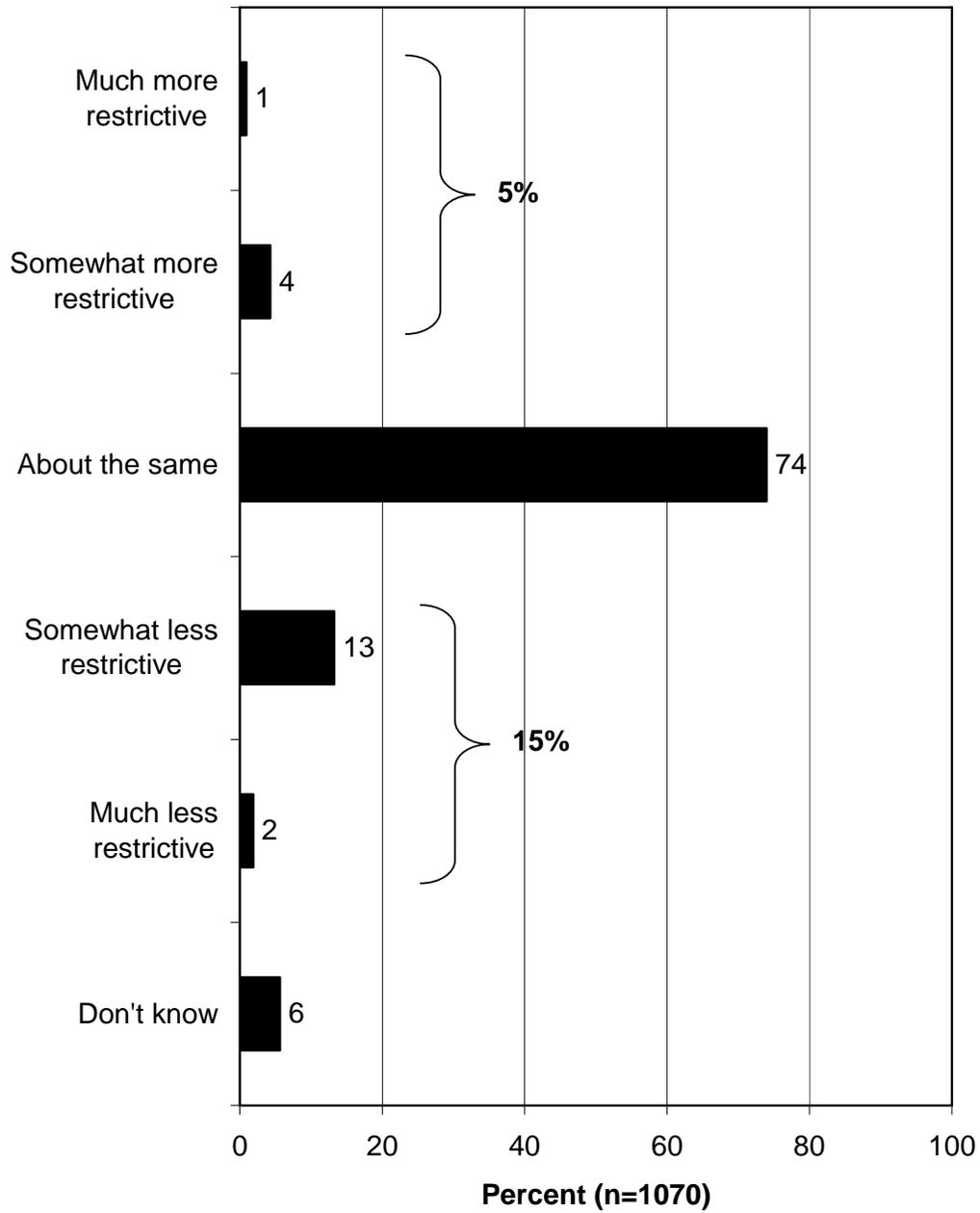
**Q252. While fishing at [most recent trip location], please estimate the distance, in yards, between you and the closest angler not in your fishing party.**

Distance	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Less than a yard	13	8	5	4	3	9	15	6
More than 100 yards	19	12	12	10	13	10	15	15
51-100 yards	19	17	16	16	27	22	17	17
41-50 yards	9	17	12	12	22	15	11	11
31-40 yards	2	4	3	4	3	2	4	3
21-30 yards	6	11	10	14	11	9	11	8
16-20 yards	6	9	11	10	6	9	6	7
11-15 yards	1	3	5	5	0	5	4	3
6-10 yards	7	8	9	9	3	7	5	6
1-5 yards	7	7	11	8	7	7	4	6
Don't know	11	4	6	7	6	6	9	18

## OPINIONS ON REGULATIONS IN GENERAL AND THE REGULATIONS BOOKLET

- Anglers were asked about the restrictiveness of Arizona's fishing regulations, and the large majority are fine with the level of restrictiveness: 74% say the regulations should be about the same as they currently are vis-à-vis restrictiveness. Otherwise, 5% say that they should be *more* restrictive while 15% say that they should be *less* restrictive.
- The clarity of the regulations does *not* seem to be a problem, as 89% of anglers agree that the regulations are clear and easy to understand. Only 4% disagree.
- The questions above were about the regulations themselves; one question, however, specifically asked about the ease of use of the *regulations booklet*. A large majority of anglers (83%) agree that the regulations booklet is easy to use, while only 3% disagree.
- Two open-ended questions (in which no answer set was given but to which respondents could have given any response that came to mind) asked about the things that are most liked about the regulations booklet and the things that are least liked (i.e., disliked).
  - The most liked thing about the regulations booklet is the layout/that it is easy to read (the top-named item at 38%). Other responses include the specific information about water bodies/maps (11%), that it is easily accessible, including online (9%), that it is thorough (9%), and the information about fish species (8%).
  - Regarding the least liked things about the regulations booklet, no item was named by more than 8% of anglers. The top item is that it is perceived as too long/wordy. The graph shows the full list.

**Q270. In your opinion, should Arizona's fishing regulations be more or less restrictive?**



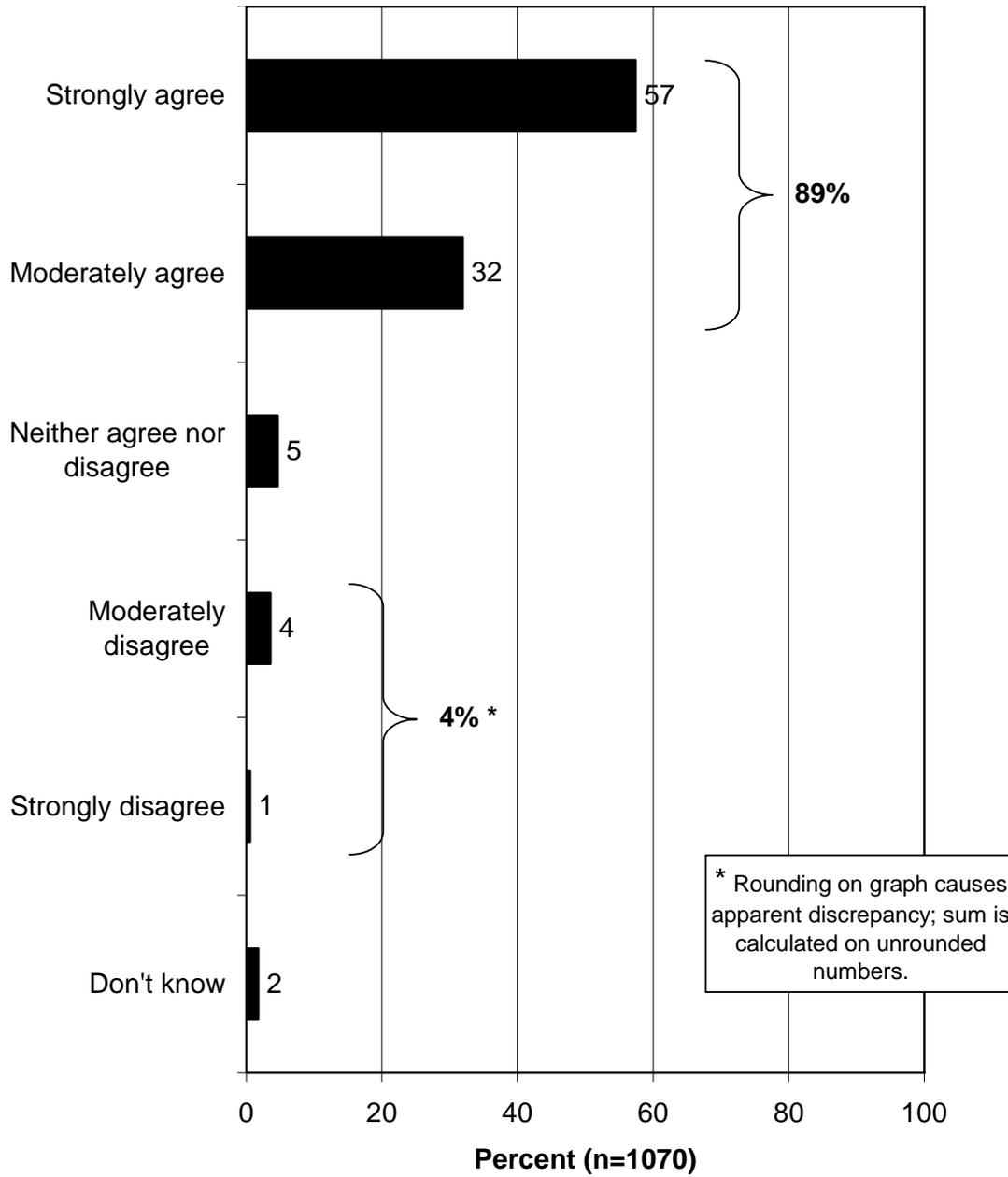
**Q270. In your opinion, should Arizona's fishing regulations be more or less restrictive?**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Much more restrictive	0	0	0	5	0	0	0	0
Somewhat more restrictive	0	7	3	5	2	0	7	4
About the same	76	74	80	68	66	67	87	74
Somewhat less restrictive	18	14	14	15	17	33	0	14
Much less restrictive	7	0	3	3	11	0	7	1
Don't know	0	5	0	5	4	0	0	7

**Q270. In your opinion, should Arizona's fishing regulations be more or less restrictive?**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Much more restrictive	2	1	2	1	0	2	0	2
Somewhat more restrictive	7	7	6	1	7	5	6	3
About the same	68	59	74	76	86	78	76	76
Somewhat less restrictive	15	26	11	15	0	8	10	8
Much less restrictive	4	4	1	4	7	2	6	1
Don't know	4	3	5	2	0	4	3	10

**Q269. Do you agree or disagree that Arizona's fishing regulations are clear and easy to understand?**



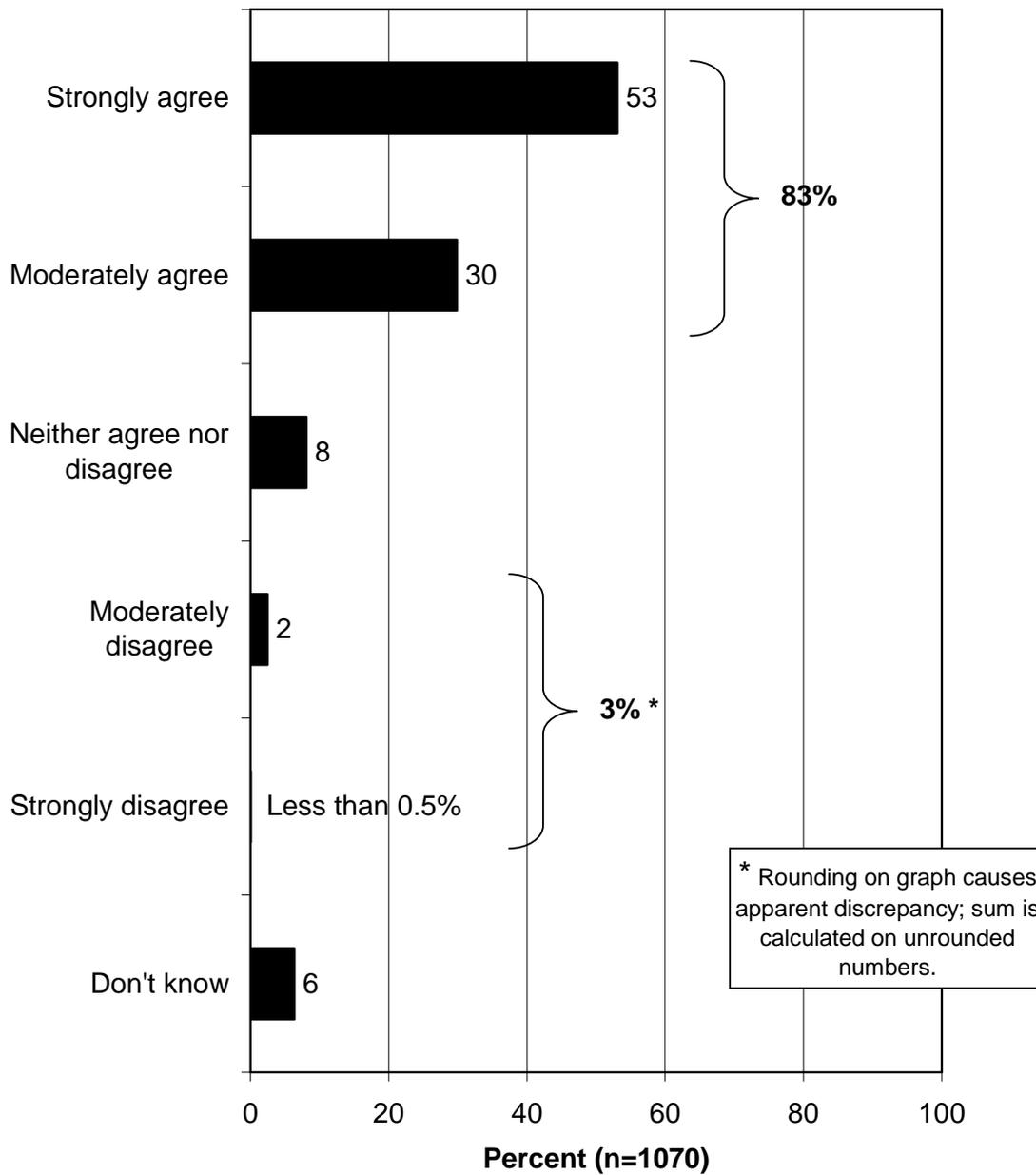
**Q269. Do you agree or disagree that Arizona's fishing regulations are clear and easy to understand?**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Strongly agree	44	53	51	63	60	33	87	55
Moderately agree	31	33	38	19	34	50	13	35
Neither agree nor disagree	11	9	6	8	2	0	0	4
Moderately disagree	7	4	1	6	2	17	0	4
Strongly disagree	2	0	3	0	0	0	0	0
Don't know	4	2	1	3	2	0	0	2

**Q269. Do you agree or disagree that Arizona's fishing regulations are clear and easy to understand?**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Strongly agree	60	43	72	61	64	58	56	55
Moderately agree	33	33	22	24	22	29	33	34
Neither agree nor disagree	4	11	1	6	7	8	4	4
Moderately disagree	1	10	2	5	7	2	4	5
Strongly disagree	1	1	2	1	0	0	1	0
Don't know	1	1	2	2	0	2	1	2

**Q271. Regardless of whether you agree or disagree that the regulations are clear, do you agree or disagree that the Arizona Game and Fish Department's fishing regulations booklet is easy to use?**



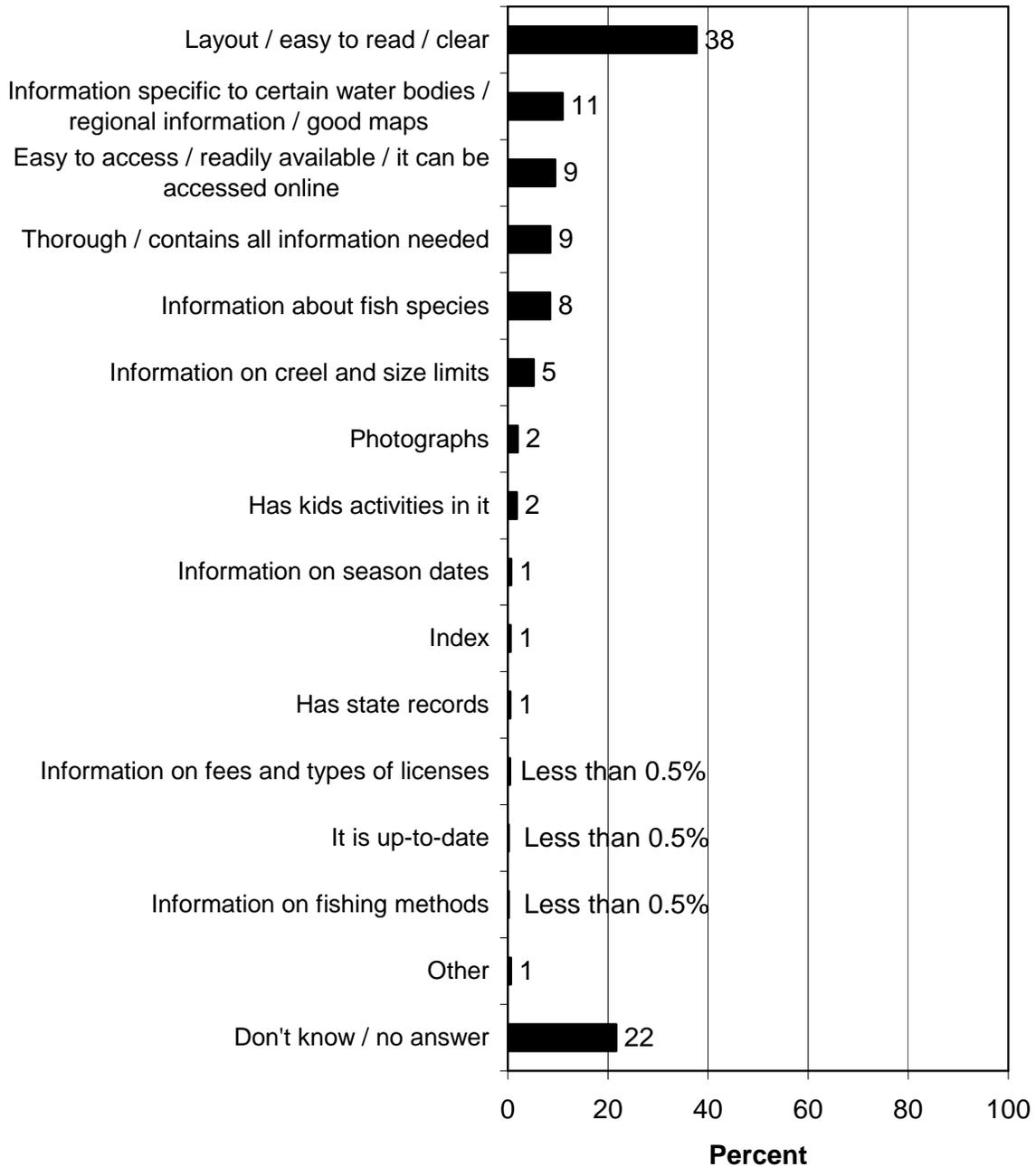
**Q271. Regardless of whether you agree or disagree that the regulations are clear, do you agree or disagree that the Arizona Game and Fish Department's fishing regulations booklet is easy to use?**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Strongly agree	42	42	51	48	49	50	74	54
Moderately agree	29	35	32	27	23	33	13	30
Neither agree nor disagree	18	12	4	16	4	0	7	8
Moderately disagree	4	2	6	5	6	17	0	2
Strongly disagree	2	0	0	0	0	0	0	0
Don't know	4	9	7	3	19	0	7	6

**Q271. Regardless of whether you agree or disagree that the regulations are clear, do you agree or disagree that the Arizona Game and Fish Department's fishing regulations booklet is easy to use?**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Strongly agree	49	46	62	59	50	52	53	46
Moderately agree	35	26	28	27	35	30	24	33
Neither agree nor disagree	6	14	5	4	15	10	15	9
Moderately disagree	4	9	2	1	0	0	4	2
Strongly disagree	0	0	0	0	0	1	0	0
Don't know	6	6	3	9	0	7	4	10

### Q272. What do you like most about the fishing regulations booklet?



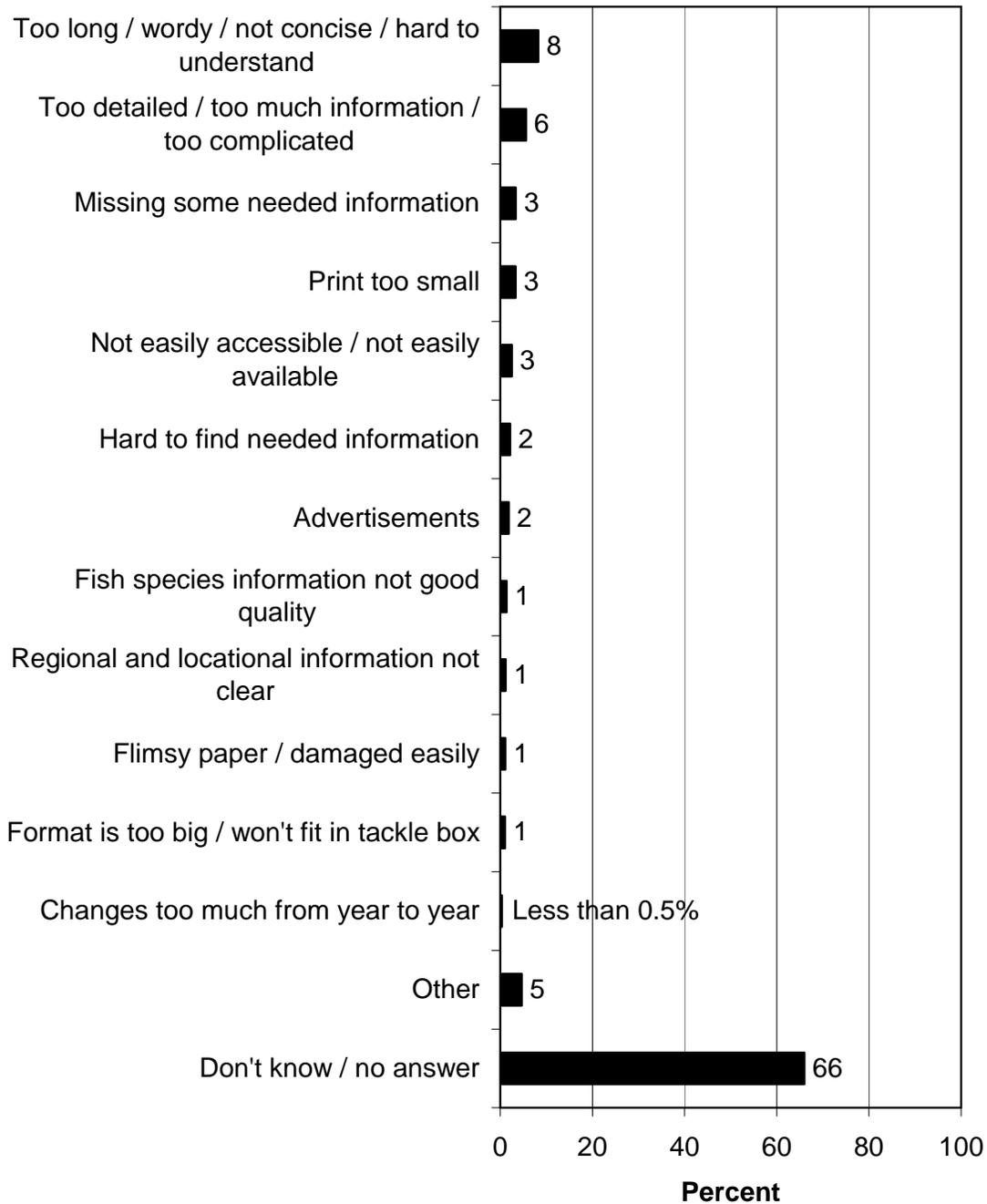
**Q272. What do you like most about the fishing regulations booklet?**

Things liked most about regulations booklet	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Layout / easy to read / clear	25	23	44	31	23	0	37	38
Information specific to certain water bodies / regional information / good maps	3	14	12	9	3	25	0	14
Easy to access / readily available / it can be accessed online	13	5	10	6	6	0	0	12
Thorough / contains all information needed	13	2	8	12	8	0	0	7
Information about fish species	0	7	0	12	11	25	0	12
Information on creel and size limits	3	12	4	9	11	0	12	2
Photographs	3	0	0	0	0	0	0	2
Has kids activities in it	0	0	0	0	0	0	0	5
Information on season dates	0	0	2	0	0	0	0	0
Index	0	0	2	0	3	0	0	0
Has state records	0	0	0	6	0	0	0	0
Information on fees and types of licenses	3	5	0	3	0	0	0	0
It is up-to-date	0	0	0	0	0	0	0	0
Information on fishing methods	0	0	0	3	0	0	0	0
Other	3	0	0	9	0	0	0	0
Don't know / no answer	38	44	25	17	43	50	50	17

**Q272. What do you like most about the fishing regulations booklet?**

Things liked most about regulations booklet	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Layout / easy to read / clear	52	28	54	38	8	39	29	42
Information specific to certain water bodies / regional information / good maps	6	4	11	6	17	10	13	10
Easy to access / readily available / it can be accessed online	6	20	7	4	17	6	9	5
Thorough / contains all information needed	12	6	7	18	17	13	7	0
Information about fish species	0	11	7	7	0	4	16	10
Information on creel and size limits	6	4	7	2	17	9	9	10
Photographs	3	7	0	0	0	3	2	0
Has kids activities in it	0	0	0	0	0	0	0	0
Information on season dates	3	0	4	0	0	0	0	5
Index	3	2	0	2	0	0	0	0
Has state records	0	0	4	0	0	0	2	0
Information on fees and types of licenses	0	0	0	0	8	0	2	0
It is up-to-date	0	0	0	2	0	0	2	0
Information on fishing methods	0	0	0	2	0	0	0	0
Other	0	0	0	2	0	0	4	0
Don't know / no answer	18	24	14	25	33	26	18	16

### Q273. What do you like least about the fishing regulations booklet?



**Q273. What do you like least about the fishing regulations booklet?**

Things liked least about regulations booklet	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Too long / wordy / not concise / hard to understand	6	2	6	6	3	25	0	12
Too detailed / too much information / too complicated	0	0	4	3	3	0	0	10
Missing some needed information	0	9	0	6	8	0	0	2
Print too small	0	5	0	9	6	0	0	5
Not easily accessible / available	0	9	4	3	0	0	0	2
Hard to find needed information	9	0	0	0	0	0	0	0
Advertisements	0	0	4	6	0	0	0	2
Fish species info. not good quality	0	0	0	6	0	0	0	2
Regional and locational information not clear	3	0	2	0	0	25	0	0
Flimsy paper / damaged easily	0	0	0	0	0	0	0	2
Format is too big / won't fit in tackle box	0	0	0	3	3	0	0	0
Changes too much from year to year	0	0	2	0	3	0	0	0
Other	6	2	6	0	3	0	0	5
Don't know / no answer	78	72	73	60	71	50	100	62

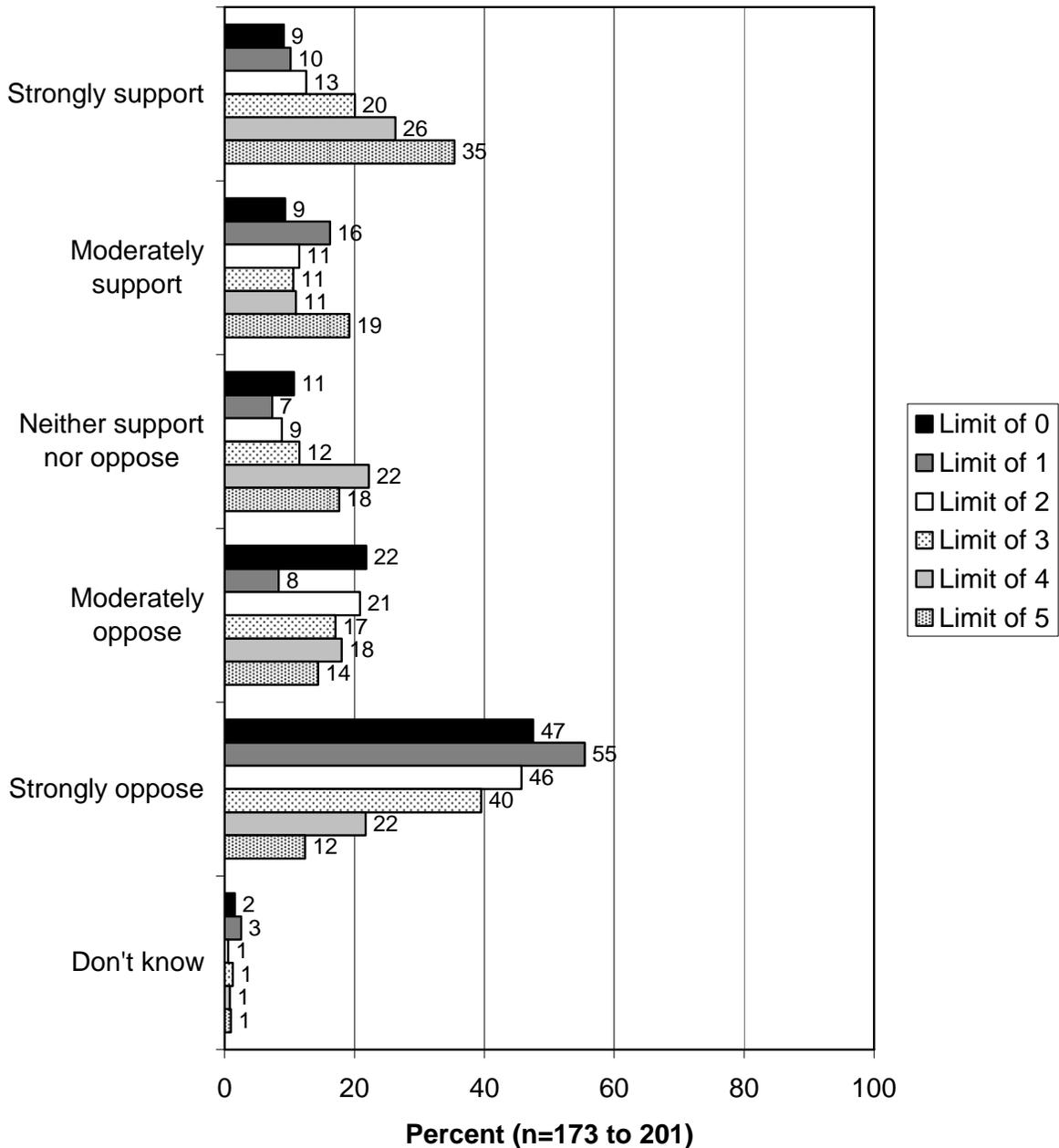
**Q273. What do you like least about the fishing regulations booklet?**

Things liked least about regulations booklet	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Too long / wordy / not concise / hard to understand	12	4	4	11	0	4	9	5
Too detailed / too much information / too complicated	6	7	0	0	0	1	7	10
Missing some needed information	3	0	7	4	0	3	7	10
Print too small	3	2	4	0	0	1	7	0
Not easily accessible / available	0	6	0	2	8	3	2	0
Hard to find needed information	3	7	0	4	8	6	7	5
Advertisements	0	0	4	2	0	1	0	0
Fish species info. not good quality	0	2	0	0	0	0	4	0
Regional and locational information not clear	3	4	0	0	0	0	7	5
Flimsy paper / damaged easily	0	2	0	0	0	0	2	0
Format is too big / won't fit in tackle box	0	7	4	2	0	1	0	0
Changes too much from year to year	0	0	0	0	0	1	0	0
Other	0	11	4	4	25	6	7	0
Don't know / no answer	73	52	75	76	59	72	49	63

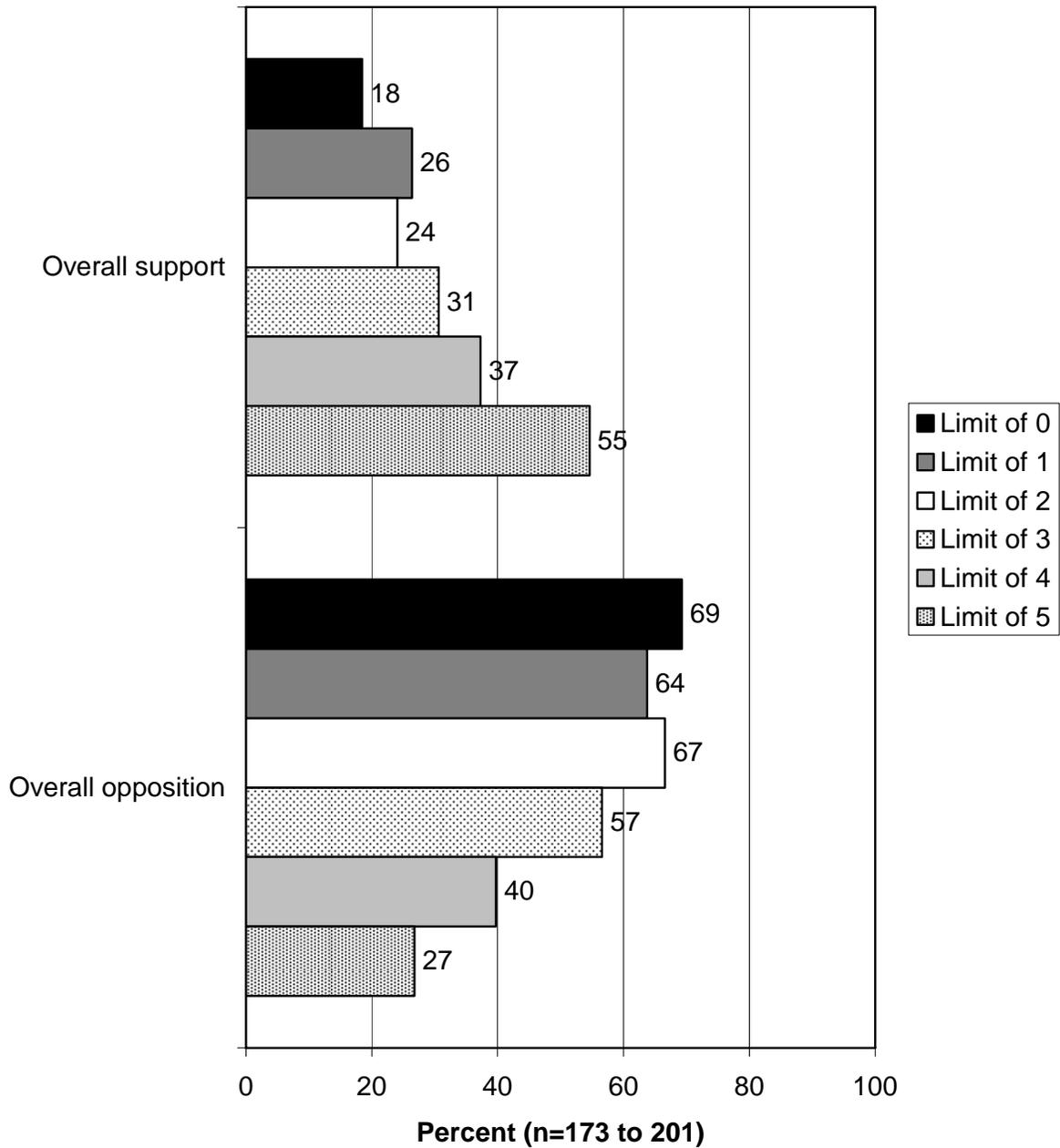
## OPINIONS ON BAG LIMITS

- Trout anglers were asked about their support for or opposition to various trout bag limits. The trout anglers were randomly assigned into six groups; each group was given one of the potential limits from 0 (allowing none to be kept) to 5, after being told that the current limit is 6 trout.
  - For trout bag limits of 0 through 3, opposition far exceeds support. At a limit of 4 trout, support and opposition are about the same. At the limit of 5 trout, support far exceeds opposition. Based on the data, any limit of less than 4 trout will be met with much opposition.
    - Three graphs are shown for this: a bar graph showing all possible responses, a bar graph showing total support and total opposition, and a line graph showing total support and total opposition.
  
- In a similar fashion, catfish anglers were asked about various catfish limits, after being told that the current limit is 25 per day. They were asked about limits of 5, 10, 15, and 20 catfish.
  - At the lowest limit of 5 catfish, support and opposition are the same (both at 38%). At higher limits, support far exceeds opposition, with a majority supporting each limit over 5 (limits of 10, 15, and 20). At the highest limit of 20, only 2% of catfish anglers are in opposition.
    - Three graphs are shown for this: a bar graph showing all possible responses, a bar graph showing total support and total opposition, and a line graph showing total support and total opposition.
  
- Finally, the survey asked about crappie limits (currently there is no limit). The survey asked about possible limits of 10, 15, 20, and 25 crappie.
  - Opposition just slightly exceeds support at the lowest limit asked about (10 crappie). At all higher limits, support far exceeds opposition, with a majority in support of each limit above 10 crappie. At the highest limit of 25 crappie, only 7% oppose.
    - Three graphs are shown for this: a bar graph showing all possible responses, a bar graph showing total support and total opposition, and a line graph showing total support and total opposition.
  
- Note that county-by-county breakdowns of these questions are not shown because of low sample sizes once the sample is broken down by county and then by scenario.

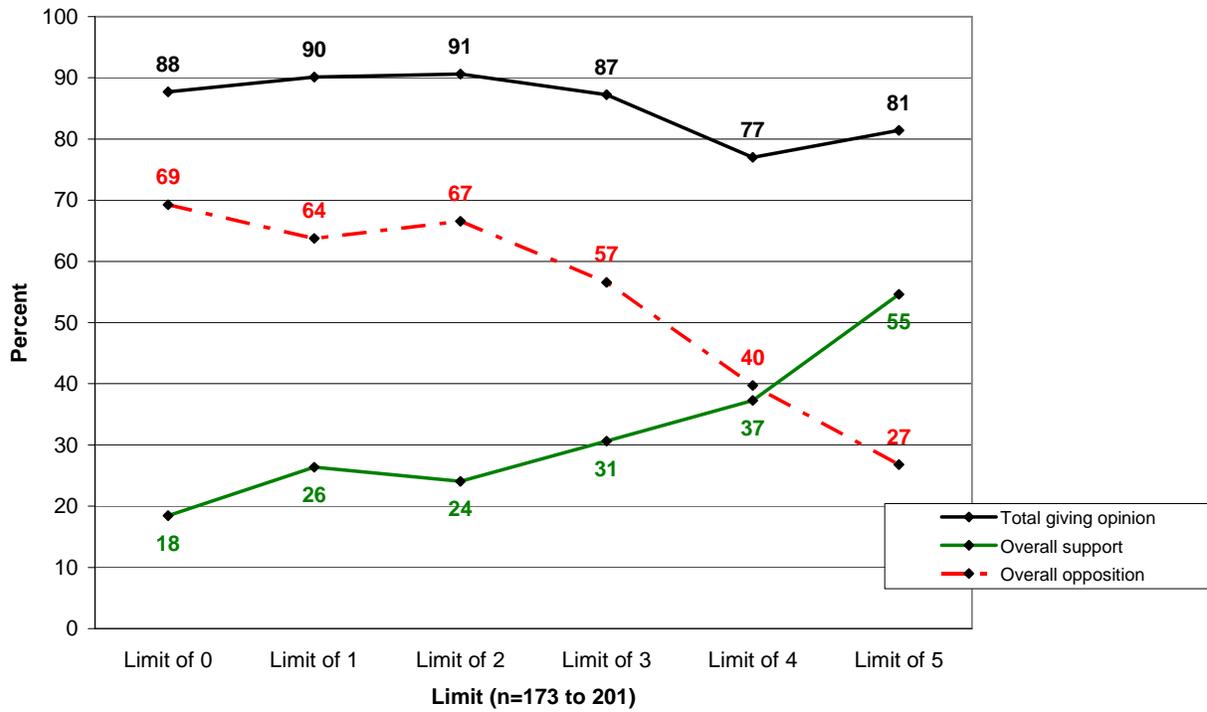
**Q79. Currently, the statewide bag limit for trout is 6 per day. Would you support or oppose a bag limit of [0, 1, 2, 3, 4, 5] per day? (Asked of those who fished for trout in Arizona in 2013.)**



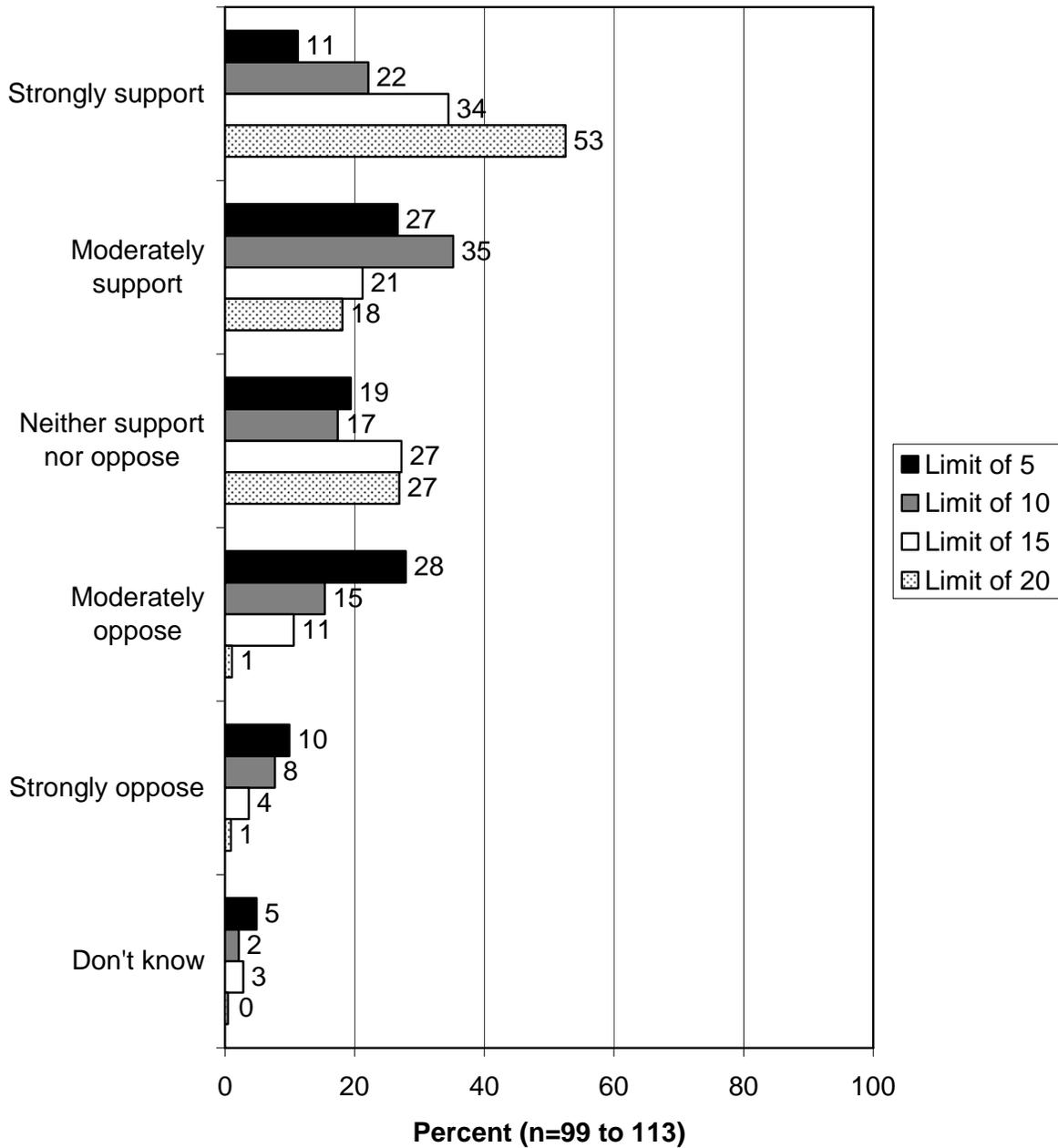
**Q79. Currently, the statewide bag limit for trout is 6 per day. Would you support or oppose a bag limit of [0, 1, 2, 3, 4, 5] per day? (Asked of those who fished for trout in Arizona in 2013.)**



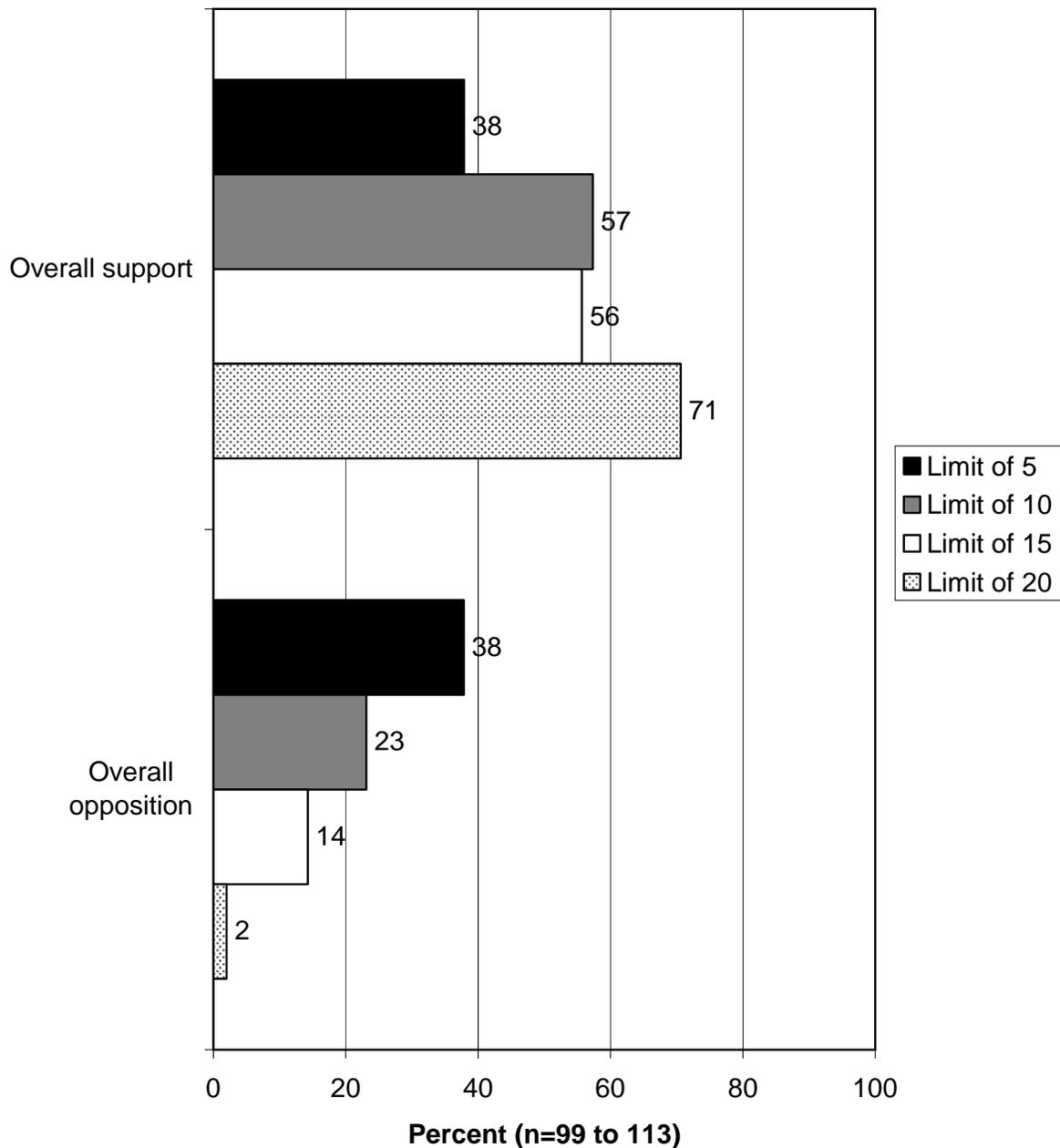
Overall support for or opposition to various trout limits.



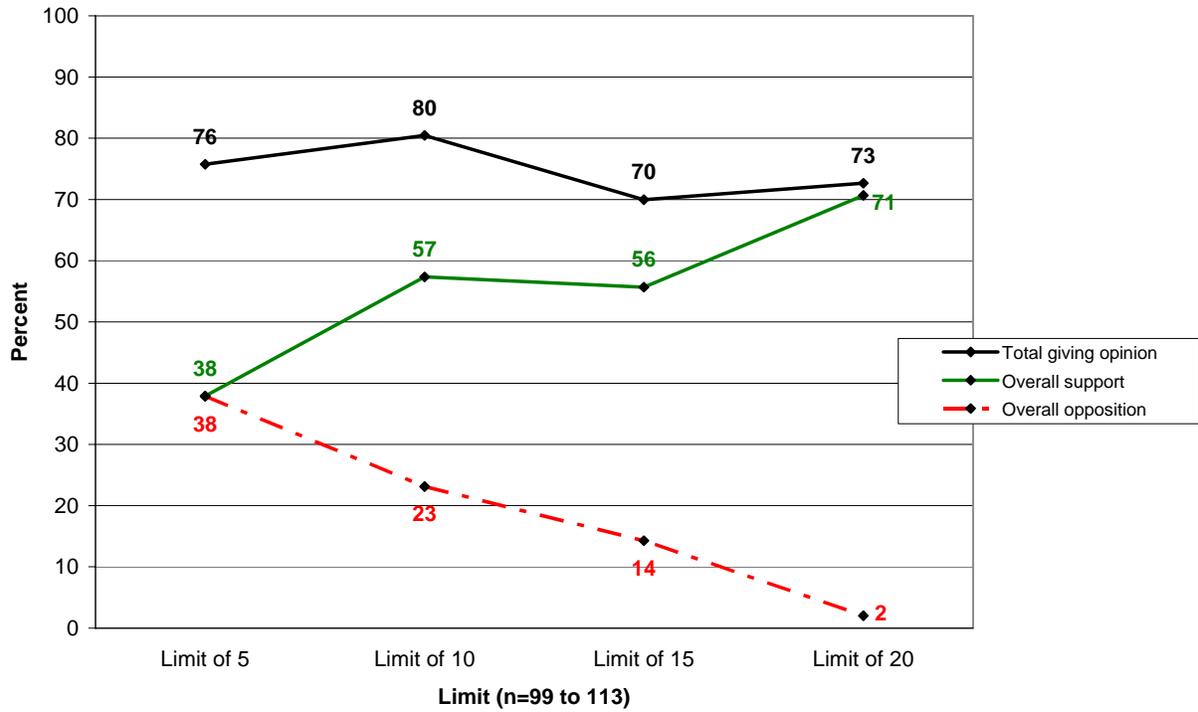
**Q80. Currently, the statewide bag limit for catfish is 25 per day. Would you support or oppose a bag limit of [5, 10, 15, 20] per day? (Asked of those who fished for catfish in Arizona in 2013.)**



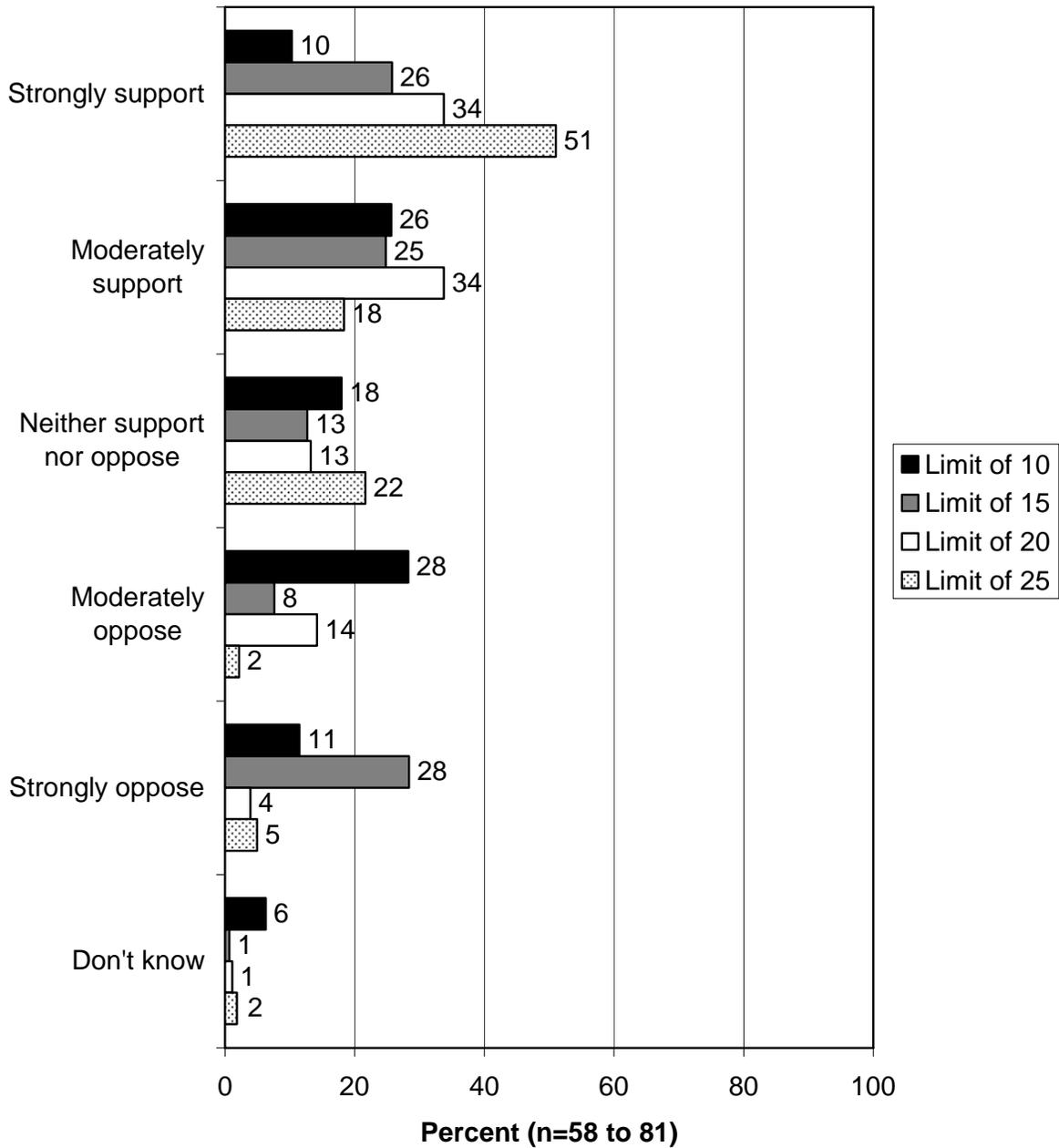
**Q80. Currently, the statewide bag limit for catfish is 25 per day. Would you support or oppose a bag limit of [5, 10, 15, 20] per day? (Asked of those who fished for catfish in Arizona in 2013.)**



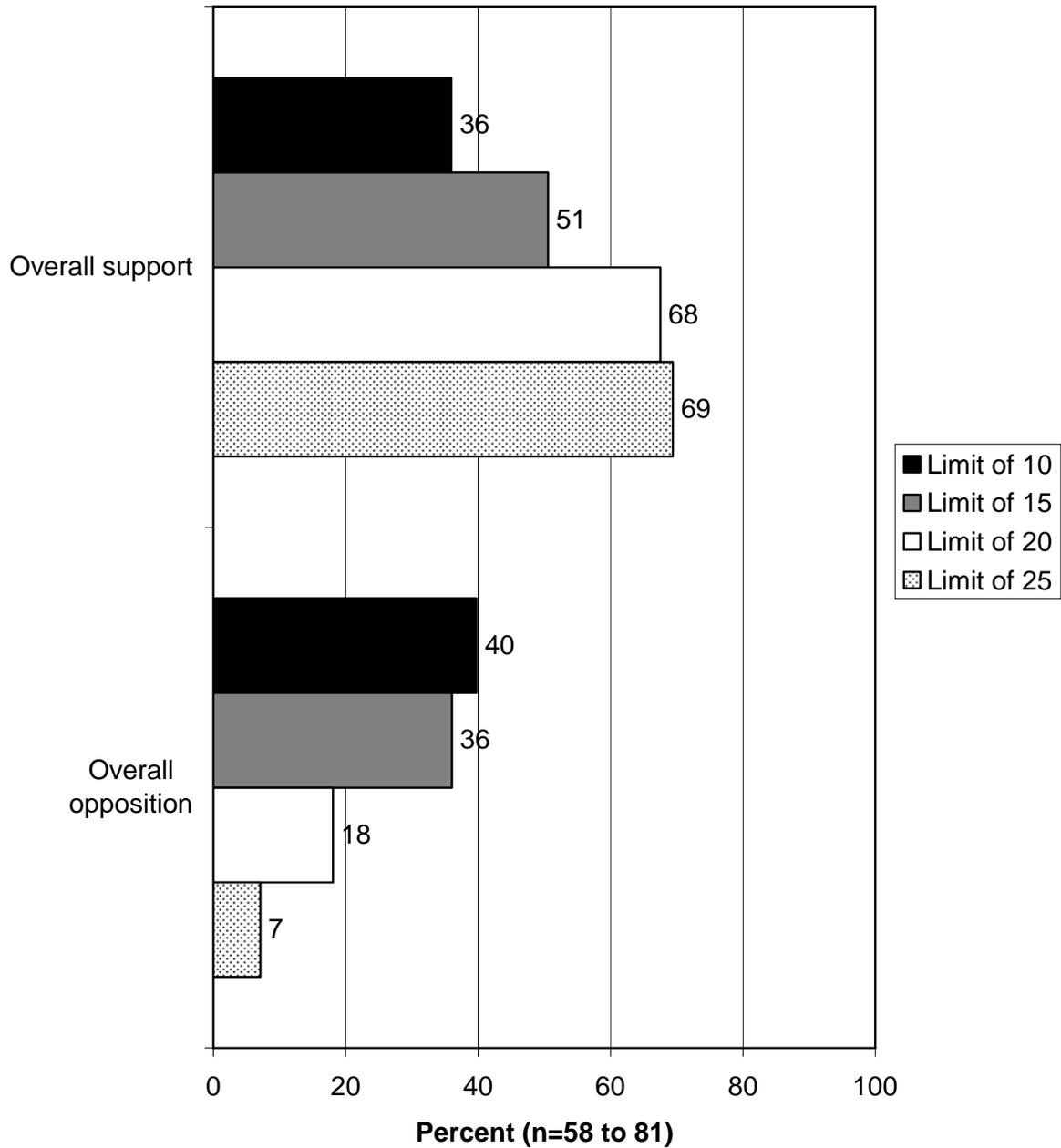
Overall support for or opposition to various catfish limits.



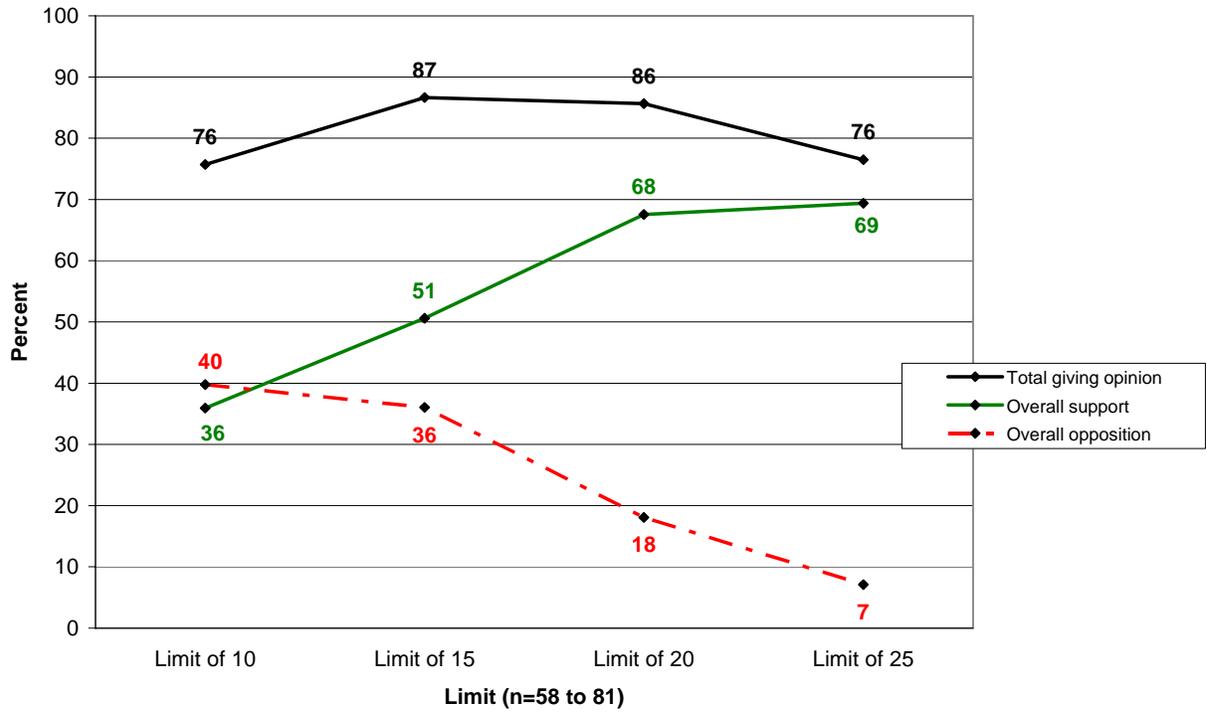
**Q81. Currently, the statewide bag limit for crappie is unlimited. Would you support or oppose a bag limit of [10, 15, 20, 25] per day? (Asked of those who fished for crappie in Arizona in 2013.)**



**Q81. Currently, the statewide bag limit for crappie is unlimited. Would you support or oppose a bag limit of [10, 15, 20, 25] per day? (Asked of those who fished for crappie in Arizona in 2013.)**



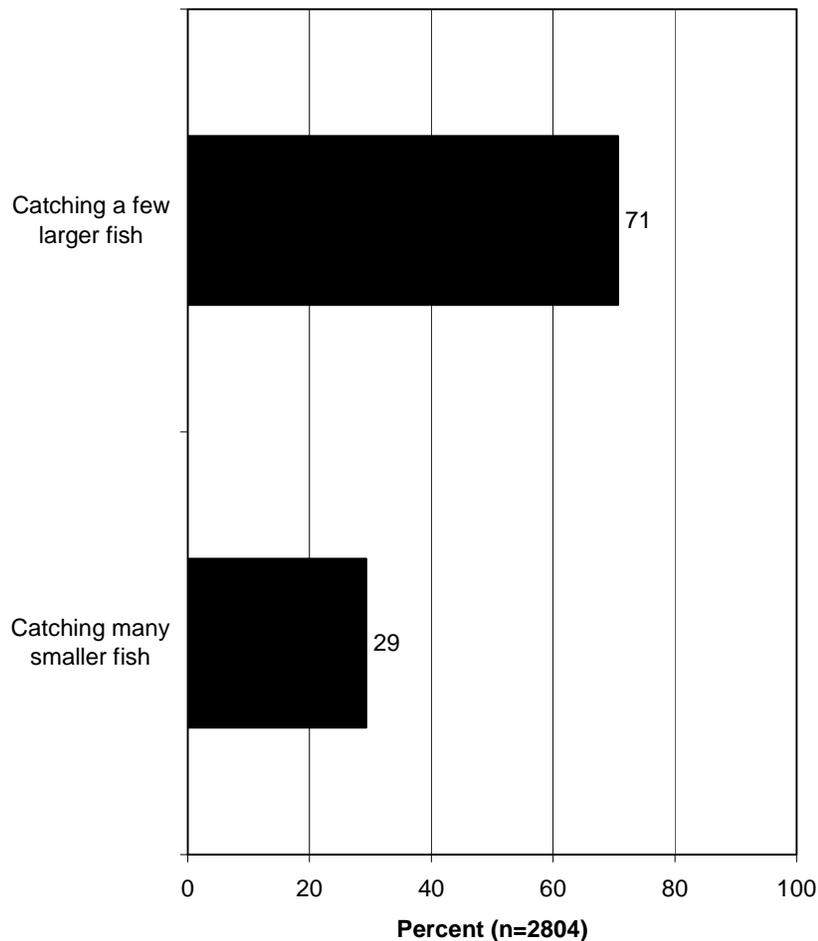
Overall support for or opposition to various crappie limits.



## OPINIONS ON MANAGEMENT STRATEGY

- The survey asked active anglers if they would prefer catching a few larger fish (i.e., manage for quality over quantity) or catching many smaller fish (i.e., manage for quantity over quality) when they go fishing. The former is preferred by a majority: 71% say that they would rather go fishing where they can catch a few larger fish.

**Q116. If you had to choose between the following two options, which do you prefer when fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**



**Q116. If you had to choose between the following two options, which do you prefer when fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

<b>Option</b>	<b>Apache</b>	<b>Cochise</b>	<b>Coconino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
Catching a few larger fish	83	70	72	74	77	89	67	70
Catching many smaller fish	17	30	28	26	23	11	33	30

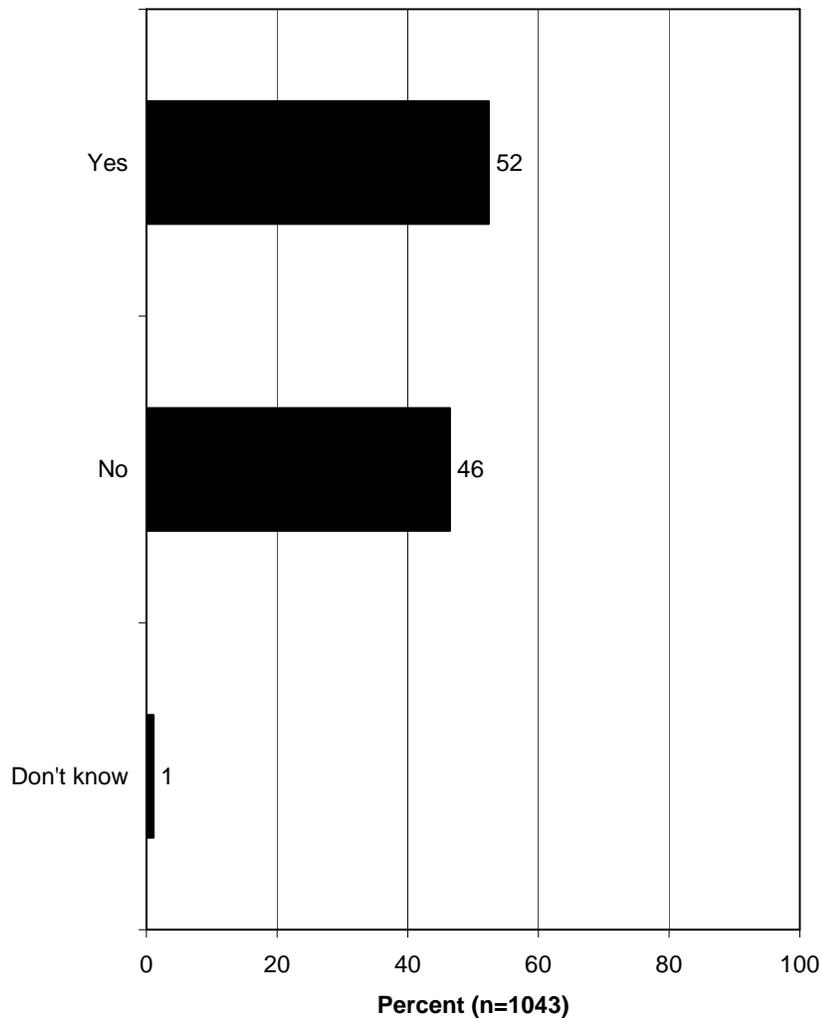
**Q116. If you had to choose between the following two options, which do you prefer when fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

<b>Option</b>	<b>Mohave</b>	<b>Navajo</b>	<b>Pima</b>	<b>Pinal</b>	<b>Santa Cruz</b>	<b>Yavapai</b>	<b>Yuma</b>	<b>Out-of-State</b>
Catching a few larger fish	70	83	71	73	65	75	75	62
Catching many smaller fish	30	17	29	27	35	25	25	38

## THE DEPARTMENT'S FISHING REPORT

- Just about half of Arizona's anglers (52%) have used the Fishing Report on the Department's website.
  - Of those who have used the Fishing Report, a little under half (43%) find it *very* useful, and another 52% find it *somewhat* useful. Only 5% say that it has no utility.

### Q267. Have you ever used the Fishing Report on the Arizona Game and Fish Department's website?



**Q267. Have you ever used the Fishing Report on the Arizona Game and Fish Department's website?**

	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Yes	33	50	52	47	42	45	39	58
No	67	50	48	51	58	55	61	41
Don't know	0	0	0	2	0	0	0	1

**Q267. Have you ever used the Fishing Report on the Arizona Game and Fish Department's website?**

	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Yes	41	46	58	68	60	54	32	26
No	58	53	39	32	40	44	67	72
Don't know	2	1	3	0	0	2	1	2

**Q268. How would you rate the usefulness of the Department's Fishing Report? (Asked of those who have used the Fishing Report on the Arizona Game and Fish Department's website.)**



**Q268. How would you rate the usefulness of the Department's Fishing Report? (Asked of those who have used the Fishing Report on the Arizona Game and Fish Department's website.)**

Rating	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Very useful	23	24	35	25	28	100	0	43
Somewhat useful	62	69	53	75	67	0	80	53
Not at all useful	8	7	12	0	0	0	20	4
Don't know	8	0	0	0	5	0	0	0

**Q268. How would you rate the usefulness of the Department's Fishing Report? (Asked of those who have used the Fishing Report on the Arizona Game and Fish Department's website.)**

Rating	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Very useful	50	44	41	47	33	52	38	50
Somewhat useful	46	53	53	45	44	44	54	35
Not at all useful	4	3	6	4	23	2	8	9
Don't know	0	0	0	4	0	2	0	6

## ARIZONA ANGLER EXPENDITURE DATA

- The expenditure data are shown in the tabulations that follow. In total, it is estimated that Arizona anglers spent a little over \$1 billion on fishing trips and fishing-related equipment in Arizona in 2013. This is an estimated \$3,130.18 per angler annually, based on approximately 350,000 licensed anglers who may make fishing-related purchases in the state. (Even those licensed anglers who did not fish in the state in 2013 were included in the calculations because some of them had made fishing-related purchases, even though they did not subsequently fish in 2013.)

### Total Arizona Angler Expenditures in 2013 (Except Large Items)

Expenditure Category	Mean Dollar Amount Spent in 2013	Total Dollar Amount Spent in 2013
Food, groceries, drink, restaurant, and dining	411.53	144,035,011
Lodging at hotels, motels, cabins, lodges, and campgrounds	148.68	52,038,421
Equipment rental, such as boats, fishing, and camping equipment	103.89	36,361,010
Gas and fuel for cars and other land vehicles (NOT including boat fuel)	360.95	126,333,525
Boat fuel	110.13	38,545,764
Boat launch fees	23.90	8,365,287
Fishing guide fees	15.73	5,506,823
Rods, reels, poles, lines, and leaders (including fly fishing gear)	172.78	60,474,320
Live bait	29.98	10,494,150
Artificial baits, lures, and flies	72.98	25,544,549
Hooks, sinkers, and swivels	25.02	8,756,865
Tackle boxes	8.21	2,872,203
Creels, stingers, and fish bags	3.73	1,306,257
Depth finders, fish finders, and other electronic fishing devices	52.73	18,456,842
Other fishing equipment, such as knives, hook removers, and fly fishing accessories	15.43	5,400,476
Clothing, such as foul weather gear, waders, and boots	28.76	10,064,564
PFDs / life jackets	10.61	3,714,224
First aid supplies and medical treatment related to fishing trips	11.22	3,926,257
Camping equipment (NOT including camping vehicles), such as tents, tarps, backpacks, sleeping bags, stoves, coolers, and lanterns	63.10	22,083,350
Boat equipment (NOT including a boat or boat trailer/hitch), such as a new boat motor and other boat parts or accessories	119.71	41,899,226
Motor boat maintenance and insurance	91.44	32,004,864
Canoe maintenance and insurance	2.25	787,429
Fishing licenses, stamps, tags, and permits	59.37	20,780,058
Fishing club or association dues and fees	3.09	1,081,513
Fishing club, association, or other fisheries-related donations	3.78	1,322,760
Fish processing, mounting, and taxidermy	2.44	853,112
Gifts and souvenirs	9.78	3,422,342
<b>Total except large items</b>		<b>686,431,200</b>

### Arizona Angler Expenditures in 2013 (Except Large Items): Proportion Spent in Various Locations

Expense Category	Dollar Amount Spent in 2013		Percent of Expenses Spent							
			In the County Where You Live*		In the County Where You Fished*		In a County Other Than Where You Live or Fished		Online / Catalog Order	
	Mean	Med.	Mean	Med.	Mean	Med.	Mean	Med.	Mean	Med.
Food, groceries, drink, restaurant, and dining	411.53	150	58.24	50	35.63	25	6.02	0	0	0
Lodging at hotels, motels, cabins, lodges, and campgrounds	148.68	0	18.35	0	72.19	100	8.76	0	0	0
Equipment rental, such as boats, fishing, and camping equipment	103.89	0	47.88	50	42.15	33	5.44	0	4.00	0
Gas and fuel for cars and other land vehicles (NOT including boat fuel)	360.95	150	63.46	50	29.01	20	5.27	0	0	0
Boat fuel	110.13	0	66.89	100	29.69	0	2.65	0	0	0
Boat launch fees	23.90	0	50.25	50	45.89	37	4.94	0	1.99	0
Fishing guide fees	15.73	0	37.88	33	53.03	50	8.93	0	0	0
Rods, reels, poles, lines, and leaders (including fly fishing gear)	172.78	50	73.11	100	14.15	0	5.16	0	7.29	0
Live bait	29.98	5	60.61	90	35.80	0	2.81	0	0.62	0
Artificial baits, lures, and flies	72.98	20	72.19	100	18.80	0	4.50	0	4.25	0
Hooks, sinkers, and swivels	25.02	6	78.31	100	15.62	0	3.43	0	2.48	0
Tackle box	8.21	0	79.12	100	9.60	0	7.79	0	3.43	0
Creels, stingers, and fish bags	3.73	0	78.51	100	14.83	0	4.48	0	3.11	0
Depth finders, fish finders, and other electronic fishing devices	52.73	0	66.60	100	5.66	0	10.33	0	17.45	0
Other fishing equipment, such as knives, hook removers, and fly fishing accessories	15.43	0	76.63	100	11.94	0	5.32	0	6.01	0
Clothing, such as foul weather gear, waders, and boots	28.76	0	69.39	100	12.18	0	8.15	0	10.12	0
PFDs / life jackets	10.61	0	73.66	100	12.09	0	7.34	0	6.93	0
First aid supplies and medical treatment related to fishing trips	11.22	0	79.78	100	10.25	0	1.77	0	7.94	0
Camping equipment (NOT including camping vehicles), such as tents, tarps, backpacks, sleeping bags, stoves, coolers, and lanterns	63.10	0	78.43	100	10.85	0	5.39	0	5.35	0
Boat equipment (NOT including a boat or boat trailer/hitch), such as a new boat motor and other boat parts or accessories	119.71	0	76.51	100	9.68	0	6.62	0	6.76	0
Motor boat maintenance and insurance	91.44	0	83.33	100	8.28	0	5.42	0	2.62	0
Canoe maintenance and insurance	2.25	0	71.88	100	5.89	0	7.73	0	13.62	0
Fishing licenses, stamps, tags, and permits	59.37	53	81.68	100	12.24	0	2.65	0	3.42	0
Fishing club or association dues and fees	3.09	0	64.66	100	12.94	0	11.31	0	10.99	0
Fishing club, association, or other fisheries related-donations	3.78	0	78.49	100	13.57	0	4.19	0	3.75	0
Fish processing, mounting, and taxidermy	2.44	0	65.30	100	16.05	0	13.25	0	5.31	0
Gifts and souvenirs	9.78	0	24.41	0	69.69	100	4.02	0	1.82	0

NOTE: "Med." stands for "Median"

\* If angler fished in county in which he/she lived, the amount was attributed to his/her county of residence.

**Percent of Arizona Anglers Making Expenditures on Large Items**

<b>Percent of licensed anglers who purchased the following primarily for fishing in 2013.</b>	
<b>Item</b>	<b>Percent Who Purchased</b>
Boat	4.3
Truck / jeep	2.9
Camper	1.9
Trailer	1.4
Other	1.2
Motor / vehicle part	0.9
Canoe / kayak	0.7
ATV	0.3
Cabin	0.2

**Arizona Angler Expenditures on Large Items in 2013**

	<b>Amount Spent in 2013 on Boats</b>	<b>Amount Spent in 2013 on Trailers</b>	<b>Amount Spent in 2013 on Campers</b>	<b>Amount Spent in 2013 on ATVs</b>	<b>Amount Spent in 2013 on Trucks / Jeeps</b>
Mean	6,665.00	7,785.18	12,460.55	5,490.27	15,410.81
Median	2,500	3,500	4,000	4,500	6,000
Sum	98,684,828	38,060,367	78,885,156	4,570,855	152,598,455

**Arizona Angler Expenditures on Large Items in 2013**

	<b>Amount Spent in 2013 on Cabins</b>	<b>Amount Spent in 2013 on Canoes and Kayaks</b>	<b>Amount Spent in 2013 on Motors / Vehicle Parts</b>	<b>Amount Spent in 2013 on Other Items</b>
Mean	16,567.03	1,206.27	1,020.72	2,198.60
Median	2,625.81	500	500	154.95
Sum	11,256,497	2,895,162	3,002,219	9,115,313

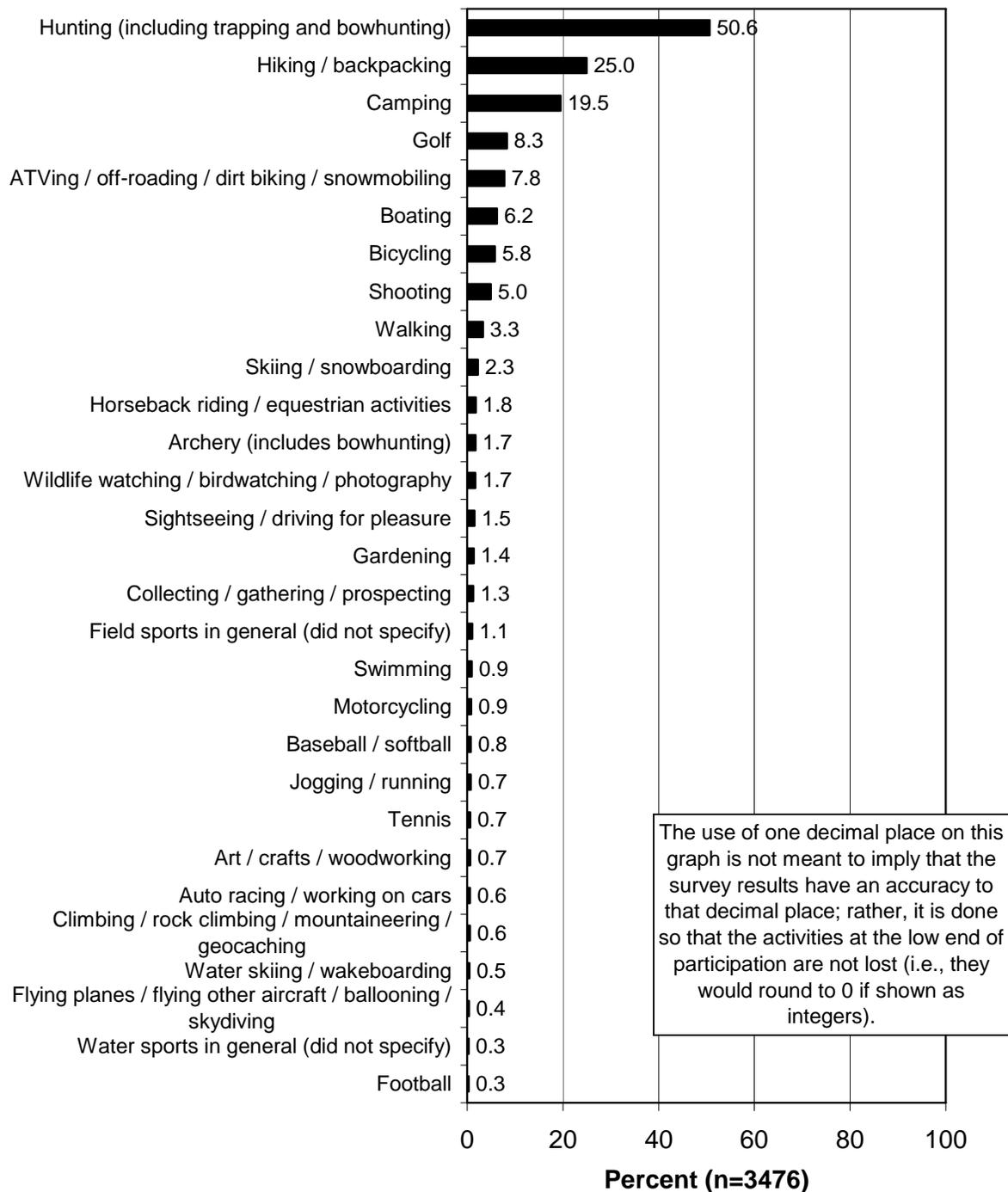
**Total Arizona Angler Expenditures in 2013**

<b>All Expenditures in Total</b>	<b>Total Dollar Amount Spent in 2013</b>
All except large items (from first table in this section)	686,431,200
Boats (except Canoes/Kayaks)	98,684,828
Trailers	38,060,367
Campers	78,885,156
ATVs	4,570,855
Trucks/Jeeps	152,598,455
Cabins	11,256,497
Canoes/Kayaks	2,895,162
Motors/Vehicle Parts	3,002,219
Other	9,115,313
<b>Total</b>	<b>1,085,500,052</b>
<b>Mean per Angler*</b>	<b>3,130.18</b>
*Based on approximately 350,000 licensed anglers who may make fishing-related purchases in the state	

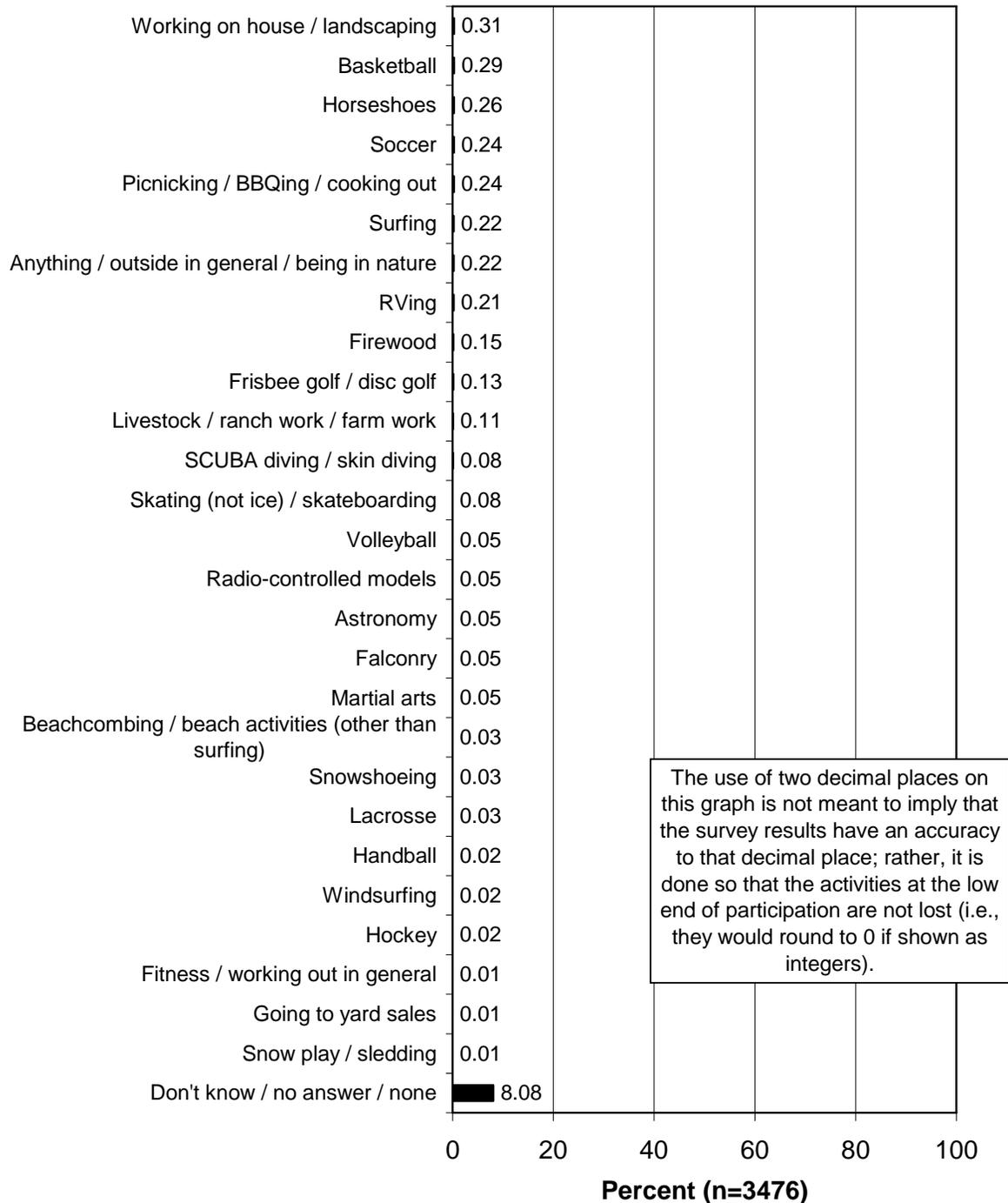
## **PARTICIPATION IN OUTDOOR RECREATION IN GENERAL**

- An open-ended question asked anglers to indicate other outdoor recreation activities that they enjoy. The most common are hunting (51% participate), hiking/backpacking (25%), and camping (20%). A second tier consists of golf (8%), ATVing/off-roading (8%), boating (6%), bicycling (6%), and shooting (5%).
  - Anglers were asked to compare the importance of fishing to their other recreation activities. For a majority of anglers (60%), fishing is either their most important recreational activity or one of their most important activities.

### Q28. What other outdoor recreation activities do you enjoy? (Part 1.)



## Q28. What other outdoor recreation activities do you enjoy? (Part 2.)



**Q28. What other outdoor recreation activities do you enjoy?**

Activities	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Hunting (including trapping and bowhunting)	70.09	58.70	62.99	54.14	69.56	74.35	34.76	50.11
Hiking / backpacking	29.06	24.49	38.50	21.04	21.83	34.20	6.42	24.83
Camping	23.93	16.80	21.51	17.22	29.29	34.20	19.52	19.19
Golf	3.42	5.78	4.50	3.82	1.15	14.25	8.80	8.35
ATVing / off-roading / dirt biking / snowmobiling	15.38	3.22	6.51	8.90	14.37	17.10	10.93	7.22
Boating	6.84	4.53	9.00	4.45	9.22	5.70	21.66	4.29
Bicycling	0.85	1.90	8.49	1.94	2.85	5.70	0	7.00
Shooting	5.13	4.53	3.99	4.45	4.61	8.55	4.28	5.42
Walking	0.85	3.22	1.49	2.57	1.15	0	4.28	3.39
Skiing / snowboarding	2.56	0.66	4.50	1.25	0.54	2.85	0	2.03
Horseback riding / equestrian activities	5.13	1.90	2.50	1.25	2.31	2.85	2.14	1.81
Archery (includes bowhunting)	2.56	0.66	1.49	2.57	1.15	2.85	0	2.03
Wildlife watching / birdwatching / photography	1.71	2.56	3.99	1.25	1.69	0	2.14	1.13
Sightseeing / driving for pleasure	4.27	1.31	1.00	0.63	2.31	0	2.14	0.68
Gardening	2.56	2.56	0.49	3.82	0.54	2.85	0	1.58
Collecting / gathering / prospecting	2.56	1.31	0.49	0	1.15	0	2.14	0.90
Field sports in general (did not specify)	0	0	0.49	1.25	0	0	0	1.35
Swimming	0	0	1.00	0.63	1.69	0	0	0.68
Motorcycling	0	0.66	2.50	1.94	0	0	2.14	0.45
Baseball / softball	0	0.66	0.49	0	0	2.85	0	0.68
Jogging / running	0	0.66	1.49	0.63	0.54	5.70	0	0.68
Tennis	0	0	0.49	0	0.54	0	0	0.90
Art / crafts / woodworking	0	0.66	0	0	0.54	0	0	1.13
Auto racing / working on cars	0.85	0.66	0.49	0	0.54	0	0	0.68
Climbing / rock climbing / mountaineering / geocaching	0	0.66	2.01	0	0.54	0	0	0.45
Water skiing / wakeboarding	0	0	1.00	0.63	0.54	0	2.14	0.45
Flying planes / flying other aircraft / ballooning / skydiving	0	0.66	0.49	0	0	0	0	0.45
Water sports in general (did not specify)	0	0	0	0	0	0	0	0.45
Football	0	0	0.49	0	0	0	0	0.45
Working on house / landscaping	0	0	0	0	0	0	0	0.23
Basketball	0	0	0	0	0	0	0	0.45
Horseshoes	0	0.66	0	0	0	2.85	0	0.23
Soccer	0	0	0.49	0	0.54	0	0	0.23

Note: The use of two decimal places in this tabulation is not meant to imply that the survey results have an accuracy to that decimal place; rather, it is done so that the activities at the low end of participation are not lost (i.e., they would round to 0 if shown as integers). In cells that are a true 0, the cell does not include decimals.

**Q28. What other outdoor recreation activities do you enjoy?**

Activities	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Picnicking / BBQing / cooking out	0	1.31	0	0	0	0	0	0
Surfing	0	0	0	0	0.54	0	0	0.23
Anything / outside in general / being in nature	0	0.66	0	0	0	0	0	0.23
RVing	0	0	0	0.63	0.54	0	0	0
Firewood	2.56	0	0.49	0	0	0	0	0
Frisbee golf / disc golf	0	0	0	0	0	0	0	0.23
Livestock / ranch work / farm work	0	0.66	0	0	0	0	0	0
SCUBA diving / skin diving	0	0.66	0.49	0	0	0	0	0
Skating (not ice) / skateboarding	0	0	0	0	0.54	0	0	0
Volleyball	0	0	0.49	0	0	2.85	0	0
Radio-controlled models	0	0.66	0.49	0	0	0	0	0
Astronomy	0	0	0	0	0	0	0	0
Falconry	0	0	0	0	0	0	0	0
Martial arts	0	0	0	0	0	0	0	0
Beachcombing / beach activities (other than surfing)	0	0	0	0	0.54	0	0	0
Snowshoeing	0	0	0.49	0	0	0	0	0
Lacrosse	0	0	0	0	0	0	0	0
Handball	0	0	0	0	0	0	0	0
Windsurfing	0	0	0	0	0	0	0	0
Hockey	0	0	0.49	0	0	0	0	0
Fitness / working out in general	0	0	0	0	0	0	0	0
Going to yard sales	0	0	0	0	0	0	0	0
Snow play / sledding	0	0	0	0	0	2.85	0	0
Don't know / no answer / none	2.56	7.75	4.50	10.21	2.85	5.70	8.80	7.67

Note: The use of two decimal places in this tabulation is not meant to imply that the survey results have an accuracy to that decimal place; rather, it is done so that the activities at the low end of participation are not lost (i.e., they would round to 0 if shown as integers). In cells that are a true 0, the cell does not include decimals.

**Q28. What other outdoor recreation activities do you enjoy?**

Activities	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Hunting (including trapping and bowhunting)	35.64	76.12	48.89	64.33	60.39	54.82	46.59	39.48
Hiking / backpacking	17.82	19.33	24.24	20.99	16.29	26.36	14.27	29.57
Camping	20.68	23.30	23.03	18.89	16.29	20.51	9.31	15.48
Golf	6.90	5.70	5.05	9.10	0	5.85	9.31	16.87
ATVing / off-roading / dirt biking / snowmobiling	14.36	6.82	7.07	7.35	7.02	8.79	11.17	7.31
Boating	13.23	2.85	7.67	3.85	7.02	7.10	4.34	10.61
Bicycling	1.73	2.85	5.66	4.19	2.25	3.77	3.72	5.74
Shooting	7.48	3.96	5.66	4.54	2.25	4.61	6.83	2.09
Walking	4.02	2.27	3.44	3.50	2.25	2.51	2.48	4.35
Skiing / snowboarding	2.86	3.43	2.22	1.75	2.25	1.26	3.10	3.13
Horseback riding / equestrian activities	0	1.69	1.22	2.79	4.78	2.10	0	2.26
Archery (includes bowhunting)	0	0.58	2.62	1.41	0	0.84	1.86	0.87
Wildlife watching / birdwatching / photography	2.86	1.69	1.62	1.75	2.25	2.92	1.24	2.95
Sightseeing / driving for pleasure	1.73	1.16	1.01	2.44	2.25	3.36	3.10	4.52
Gardening	0.58	1.69	0.20	1.41	2.25	1.26	1.24	1.91
Collecting / gathering / prospecting	4.59	1.16	1.62	0.69	2.25	2.92	0	1.74
Field sports in general (did not specify)	0.58	0	1.22	0.34	0	0.41	1.86	0.87
Swimming	3.44	0	1.42	0.34	2.25	0.41	1.24	1.39
Motorcycling	0.58	1.16	0.81	2.10	2.25	1.26	1.86	1.39
Baseball / softball	0.58	0	1.42	1.06	0	0.41	1.24	0.87
Jogging / running	0.58	0	1.01	0.69	0	0.84	1.24	0.52
Tennis	0	0.58	0.60	0.69	0	0.41	0	0.52
Art / crafts / woodworking	0	0	0	0	0	0.84	0.62	0.34
Auto racing / working on cars	0	0.58	0.20	0.34	0	0.84	1.24	0.70
Climbing / rock climbing / mountaineering / geocaching	1.73	0.58	0.60	0	0	0	0	0.87
Water skiing / wakeboarding	1.16	0	1.01	0	0	0.41	0	0.18
Flying planes / flying other aircraft / ballooning / skydiving	0.58	0	0	0.34	0	0.41	0.62	0.34
Water sports in general (did not specify)	0	1.69	0.40	0	0	0	0	0.18
Football	0	0	0.20	0.34	0	0.84	0.62	0
Working on house / landscaping	0.58	0	1.01	0.69	0	0	0	0.18
Basketball	0	0	0.40	0	0	0.41	0	0
Horseshoes	0	0.58	0	0.34	0	0.84	1.24	0.34
Soccer	0	0	0.20	0	0	0.84	0	0.34

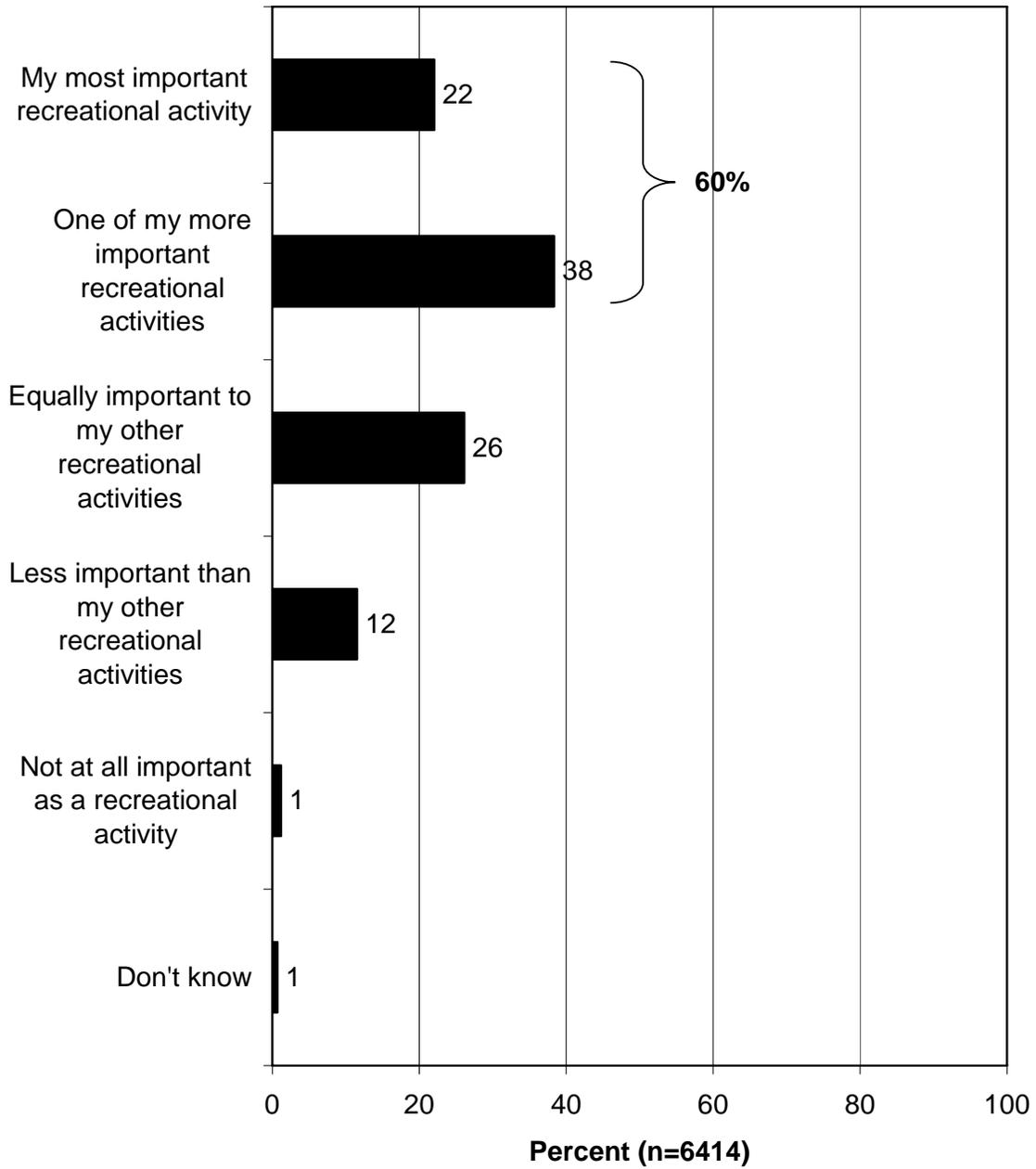
Note: The use of two decimal places in this tabulation is not meant to imply that the survey results have an accuracy to that decimal place; rather, it is done so that the activities at the low end of participation are not lost (i.e., they would round to 0 if shown as integers). In cells that are a true 0, the cell does not include decimals.

**Q28. What other outdoor recreation activities do you enjoy?**

Activities	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Picnicking / BBQing / cooking out	0	0.58	0.81	0.69	0	0.84	0.62	0.18
Surfing	1.16	0	0	0	0	0	0	0.52
Anything / outside in general / being in nature	0.58	0.58	0.20	0.34	0	0	1.24	0
RVing	1.16	0	0.60	0	0	0.41	1.24	0.18
Firewood	0	1.16	0	0	0	0	0	0.70
Frisbee golf / disc golf	0	0	0	0	0	0.41	0	0
Livestock / ranch work / farm work	0	0.58	0	0.34	0	0	0.62	0.52
SCUBA diving / skin diving	1.16	0.58	0	0	0	0	0	0
Skating (not ice) / skateboarding	0.58	0	0.20	0	0	0.41	0	0
Volleyball	0	0	0	0.34	0	0	0.62	0
Radio-controlled models	0	0	0	0	0	0	0	0.18
Astronomy	0	0	0.20	0	0	0	0	0.18
Falconry	0	0	0.20	0	0	0	0	0.18
Martial arts	0	0	0.20	0	0	0	0	0.18
Beachcombing / beach activities (other than surfing)	0	0.58	0	0	2.25	0	0	0
Snowshoeing	0	0	0	0	0	0	0.62	0
Lacrosse	0	0	0.20	0	0	0	0	0
Handball	0	0	0	0	0	0	0	0.18
Windsurfing	0	0	0	0	0	0	0	0.18
Hockey	0	0	0	0	0	0	0	0
Fitness / working out in general	0	0	0	0	0	0	0.62	0
Going to yard sales	0	0	0	0	0	0	0.62	0
Snow play / sledding	0	0	0	0	0	0	0	0
Don't know / no answer / none	13.23	4.54	9.69	4.88	11.55	7.54	13.03	9.22

Note: The use of two decimal places in this tabulation is not meant to imply that the survey results have an accuracy to that decimal place; rather, it is done so that the activities at the low end of participation are not lost (i.e., they would round to 0 if shown as integers). In cells that are a true 0, the cell does not include decimals.

### Q27. Compared to your other recreational activities, how important to you is fishing?



**Q27. Compared to your other recreational activities, how important to you is fishing?**

<b>Importance of Fishing</b>	<b>Apache</b>	<b>Cochise</b>	<b>Coconino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
My most important recreational activity	16	19	16	23	17	17	26	23
One of my more important recreational activities	40	39	39	41	35	46	38	37
Equally important to my other recreational activities	28	25	27	27	29	26	25	26
Less important than my other recreational activities	15	13	15	7	16	12	12	12
Not at all important as a recreational activity	2	3	2	1	2	0	0	1
Don't know	0	1	0	1	0	0	0	1

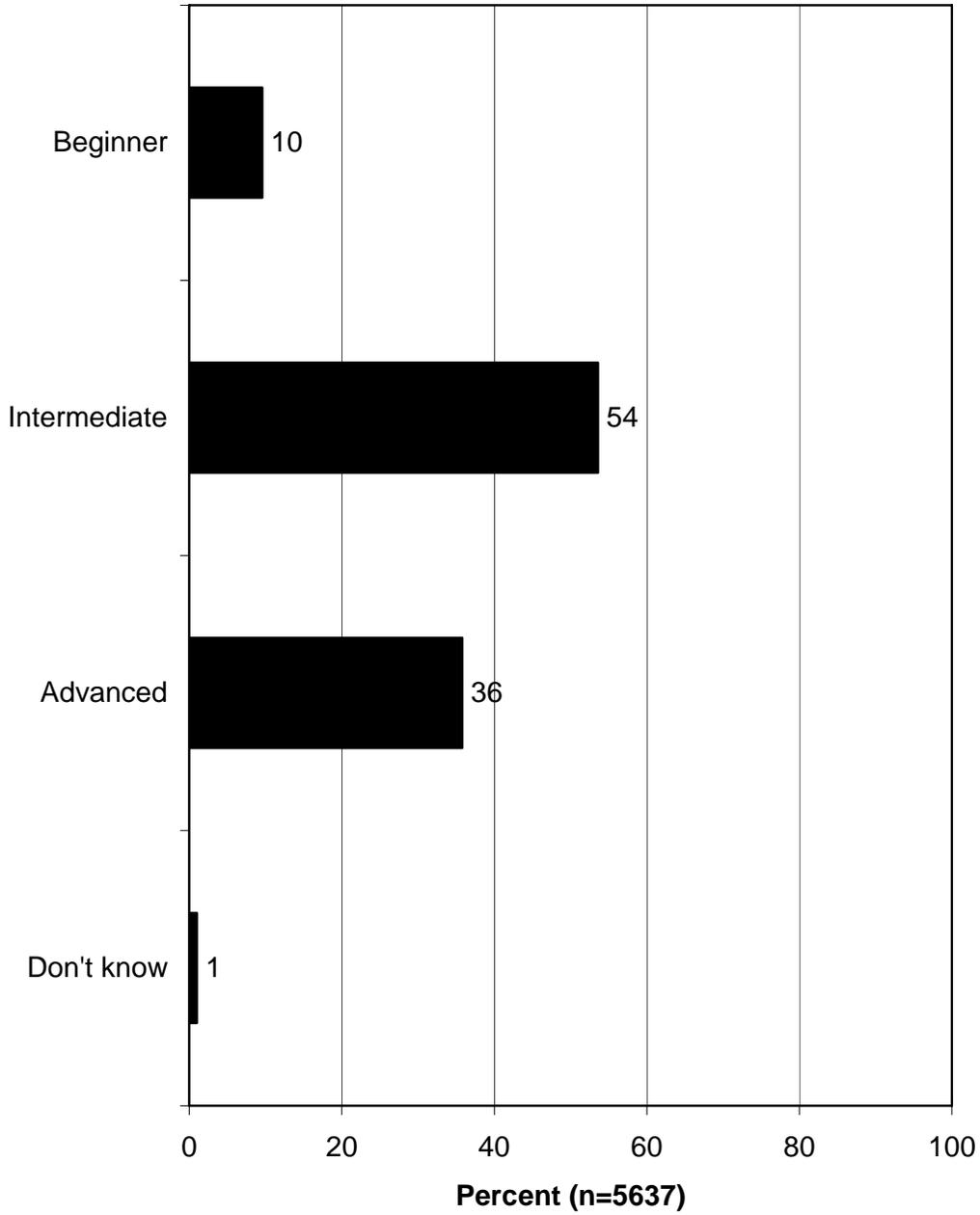
**Q27. Compared to your other recreational activities, how important to you is fishing?**

<b>Importance of Fishing</b>	<b>Mohave</b>	<b>Navajo</b>	<b>Pima</b>	<b>Pinal</b>	<b>Santa Cruz</b>	<b>Yavapai</b>	<b>Yuma</b>	<b>Out-of-State</b>
My most important recreational activity	26	21	21	19	20	18	25	26
One of my more important recreational activities	42	38	40	40	39	40	38	38
Equally important to my other recreational activities	22	29	24	28	24	29	28	23
Less important than my other recreational activities	9	10	13	11	14	11	7	9
Not at all important as a recreational activity	0	2	1	2	1	1	1	2
Don't know	0	0	1	1	3	1	1	2

## CHARACTERISTICS OF ANGLERS

- The survey included four questions about characteristics and behaviors of anglers, such as their level of expertise and the number of days that they fished.
  - Active anglers most commonly perceive of themselves as *intermediate* in expertise: 54% give this response, which exceeds *advanced* (36%) and far exceeds *beginner* (10%).
  - The mean number of years that anglers have been fishing in Arizona is 23.8 years; the median is 23 years.
  - Days fishing in Arizona in 2013: the mean is 20.9 days; the median is 10 days.
  - Number of fishing trips taken in or to Arizona: the median number is 5 trips taken in 2013.

**Q43. How would you rate your expertise as an angler? (Asked of those who personally fished in Arizona in 2013.)**



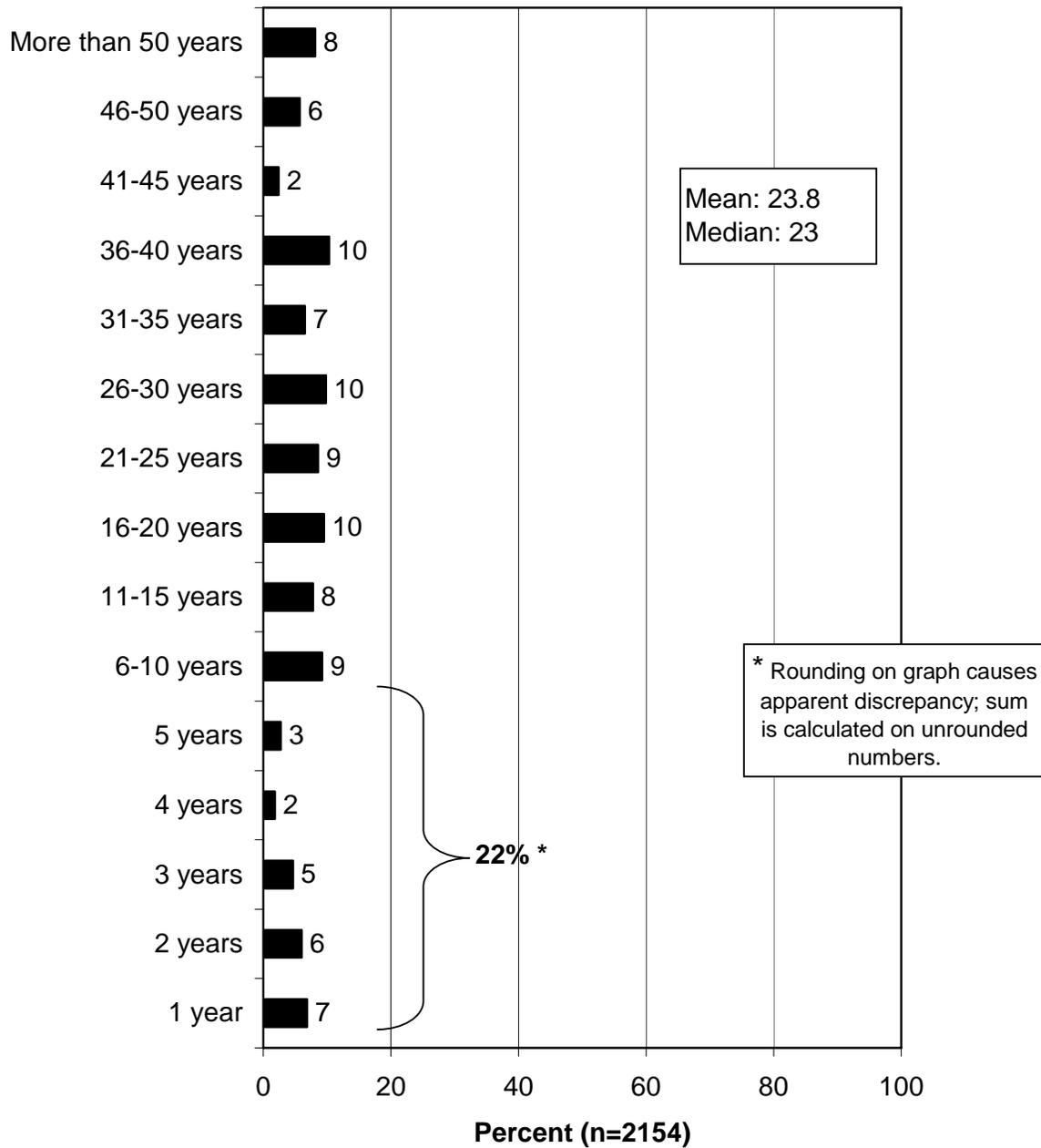
**Q43. How would you rate your expertise as an angler? (Asked of those who personally fished in Arizona in 2013.)**

Level of Expertise	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Beginner	7	10	7	8	8	8	14	11
Intermediate	51	56	52	53	63	45	39	55
Advanced	39	33	40	38	29	45	46	33
Don't know	3	1	1	1	1	3	1	1

**Q43. How would you rate your expertise as an angler? (Asked of those who personally fished in Arizona in 2013.)**

Level of Expertise	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Beginner	6	7	12	8	16	7	8	6
Intermediate	50	54	54	62	48	54	54	45
Advanced	42	37	34	29	35	38	35	48
Don't know	2	2	0	1	1	1	2	1

### Q21. How many years total have you been fishing in Arizona?



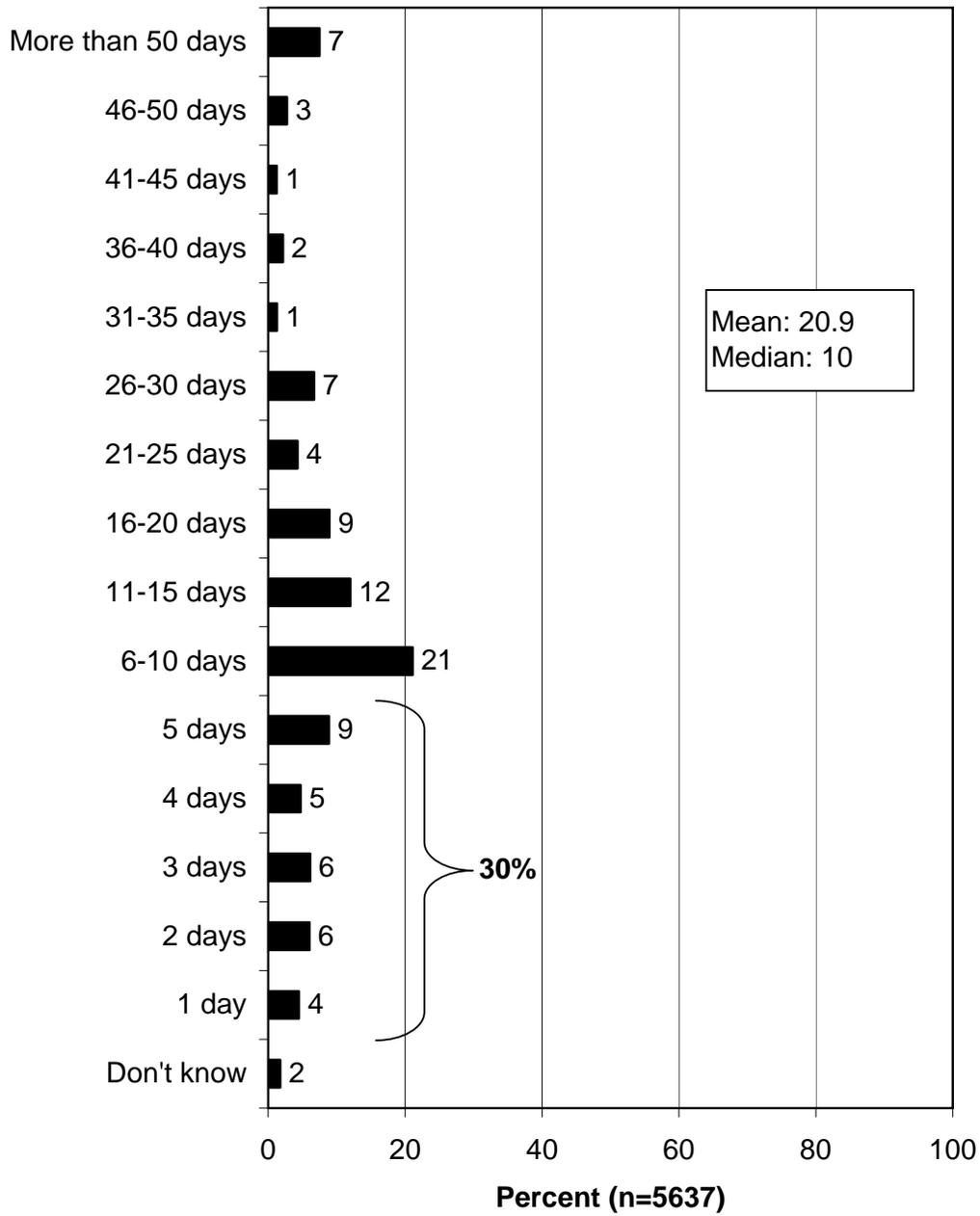
**Q21. How many years total have you been fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Years	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
More than 50 years	15	5	7	11	17	13	25	9
46-50 years	15	2	4	9	4	13	0	7
41-45 years	6	2	4	4	10	6	0	1
36-40 years	19	9	12	7	4	6	0	14
31-35 years	9	7	6	7	6	0	0	9
26-30 years	13	9	11	13	12	0	8	12
21-25 years	9	5	14	6	4	13	0	12
16-20 years	0	11	14	11	10	13	17	10
11-15 years	4	12	11	13	8	13	0	7
6-10 years	9	11	6	6	10	6	0	4
5 years	0	9	1	2	2	0	0	2
4 years	0	0	4	0	2	6	0	1
3 years	0	5	4	0	2	0	8	5
2 years	2	5	1	2	6	6	25	4
1 year	0	9	1	9	2	6	17	3

**Q21. How many years total have you been fishing in Arizona? (Asked of those who personally fished in Arizona in 2013.)**

Years	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
More than 50 years	4	13	7	5	0	18	3	0
46-50 years	3	12	4	11	0	3	6	0
41-45 years	1	4	6	2	20	4	5	0
36-40 years	6	8	7	11	0	11	9	0
31-35 years	6	14	3	6	0	0	0	1
26-30 years	3	7	11	6	41	10	5	4
21-25 years	7	7	6	7	0	3	3	1
16-20 years	9	13	4	17	20	11	12	3
11-15 years	12	7	11	7	20	6	6	5
6-10 years	19	7	19	7	0	15	25	12
5 years	6	1	2	6	0	2	3	7
4 years	0	1	4	2	0	2	2	4
3 years	3	3	4	6	0	1	5	10
2 years	9	3	5	7	0	8	8	17
1 year	10	1	7	1	0	5	9	35

**Q23. How many days have you gone fishing in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**



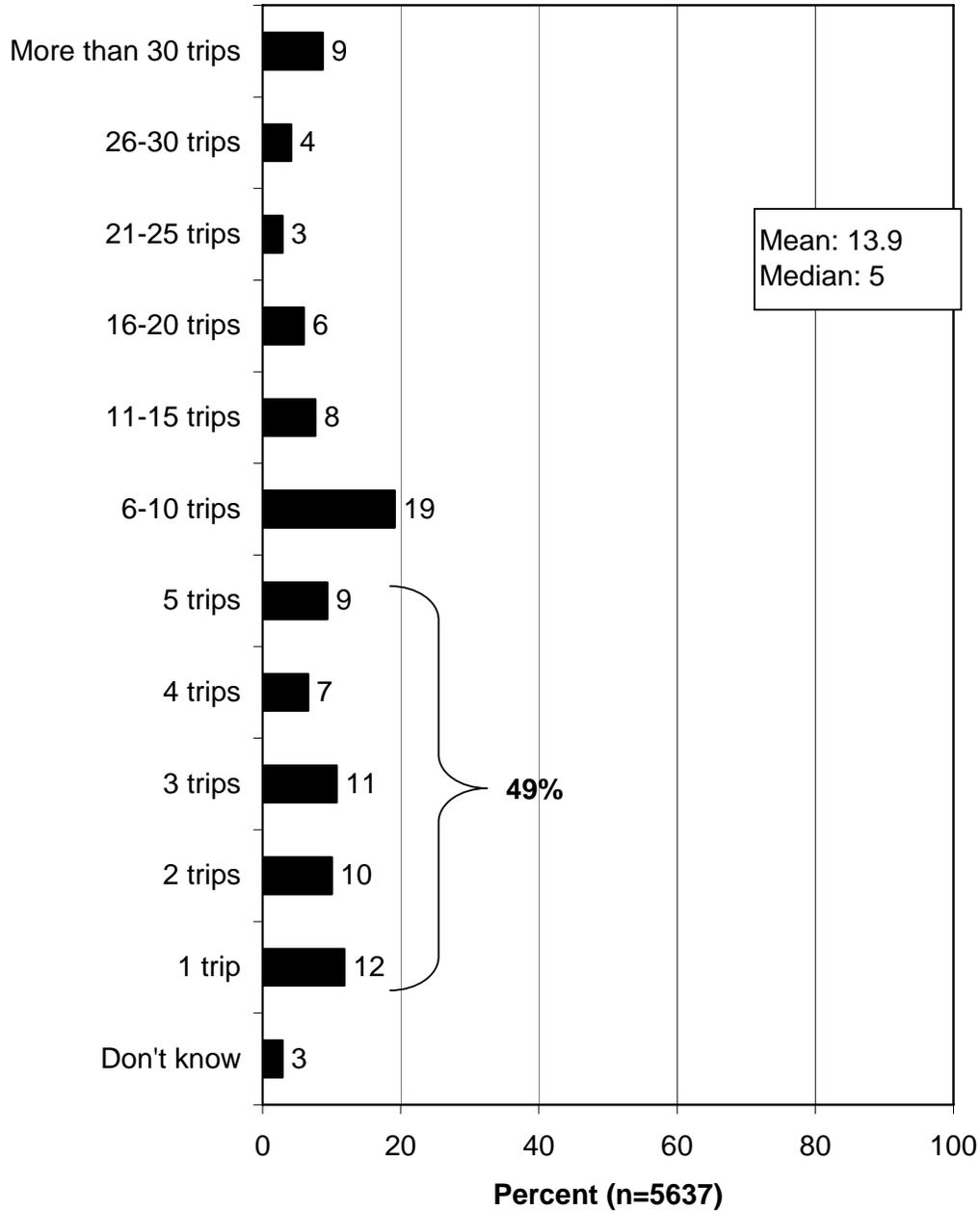
**Q23. How many days have you gone fishing in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

Days	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
More than 50 days	7	10	8	15	9	5	19	7
46-50 days	0	2	3	3	3	4	6	3
41-45 days	0	0	1	2	2	1	0	1
36-40 days	2	2	2	3	3	3	4	2
31-35 days	2	1	2	1	1	1	1	1
26-30 days	8	6	5	9	10	7	17	6
21-25 days	2	1	7	5	4	3	1	4
16-20 days	10	13	9	12	8	12	7	8
11-15 days	14	13	14	11	15	8	8	11
6-10 days	24	25	21	20	21	34	17	22
5 days	9	5	9	6	7	7	4	10
4 days	4	5	3	3	3	7	4	4
3 days	6	5	5	3	4	0	4	7
2 days	3	5	5	4	6	4	4	6
1 day	5	4	3	3	3	4	3	4
Don't know	0	1	2	1	2	0	0	2

**Q23. How many days have you gone fishing in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

Days	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
More than 50 days	18	9	5	5	10	8	15	2
46-50 days	4	3	2	2	0	3	5	1
41-45 days	2	1	1	1	0	1	1	1
36-40 days	4	3	1	2	0	3	4	1
31-35 days	2	3	1	0	3	2	2	0
26-30 days	10	9	6	6	7	9	10	4
21-25 days	5	5	5	6	10	5	6	2
16-20 days	8	10	10	10	13	12	10	7
11-15 days	13	13	13	15	6	12	15	8
6-10 days	16	20	23	22	27	22	12	16
5 days	5	10	7	7	9	7	4	10
4 days	2	2	8	5	7	4	3	8
3 days	4	5	6	7	1	4	5	10
2 days	4	4	5	4	6	2	3	14
1 day	1	3	5	4	1	4	1	16
Don't know	1	2	2	2	1	2	2	1

**Q24. In total, about how many fishing trips have you taken in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**



**Q24. In total, about how many fishing trips have you taken in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

Trips	Apache	Cochise	Cocoino	Gila	Graham	Greenlee	La Paz	Maricopa
More than 30 trips	9	7	8	16	8	8	21	8
26-30 trips	6	3	2	5	7	5	10	4
21-25 trips	1	2	4	5	2	1	0	3
16-20 trips	7	6	9	10	6	8	7	6
11-15 trips	7	6	10	10	9	7	11	7
6-10 trips	25	23	21	22	20	28	18	20
5 trips	11	6	10	6	8	4	3	11
4 trips	6	8	6	4	7	8	3	7
3 trips	13	12	10	5	11	12	6	12
2 trips	8	14	8	7	10	9	4	11
1 trip	6	11	10	5	10	8	15	8
Don't know	1	1	3	3	2	0	3	3

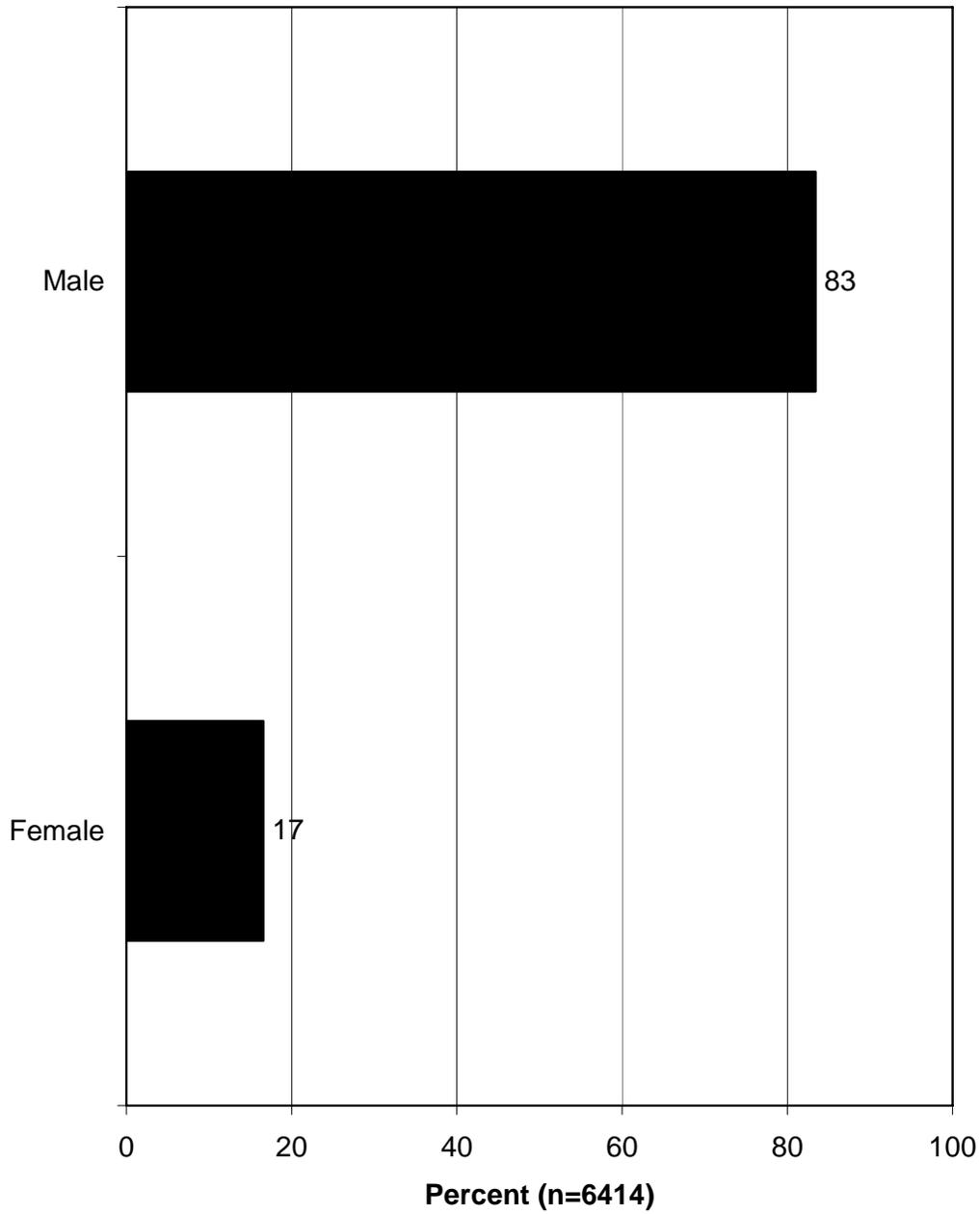
**Q24. In total, about how many fishing trips have you taken in Arizona in 2013? (Asked of those who personally fished in Arizona in 2013.)**

Trips	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
More than 30 trips	21	11	4	6	13	10	18	3
26-30 trips	6	6	3	2	4	4	7	3
21-25 trips	4	4	3	4	6	3	5	2
16-20 trips	8	8	5	5	6	6	10	3
11-15 trips	9	9	8	8	7	10	11	3
6-10 trips	16	22	17	25	21	22	13	10
5 trips	9	11	9	9	11	10	7	5
4 trips	6	7	9	8	10	7	4	4
3 trips	7	8	14	12	6	8	7	7
2 trips	5	6	12	9	10	7	7	10
1 trip	3	6	12	11	4	10	7	50
Don't know	5	3	3	2	3	3	4	1

## DEMOGRAPHIC DATA

- The survey collected some demographic data, which is primarily used in analyses. These data include:
  - Gender: 83% of anglers in the survey (including non-active anglers) are male, while 17% are female.
  - Age: note that the database was of licensed anglers, and very few people under 16 years old are licensed; therefore, the mean and median shown are of those 16 years old and older.
  - Ethnicity: although whites predominate, other ethnicities are represented within the community of Arizona anglers.
  - County of residence: of all the counties, Maricopa accounts for the most anglers, by far. Note that the sample was purposely proportioned to have the counties be equal to their true proportion of all licensed anglers.
  - Income: the income follows a bell curve, with the peak in the \$60,000 to \$79,999 range.

**Q497. Respondent's gender (not asked, observed by interviewer).**



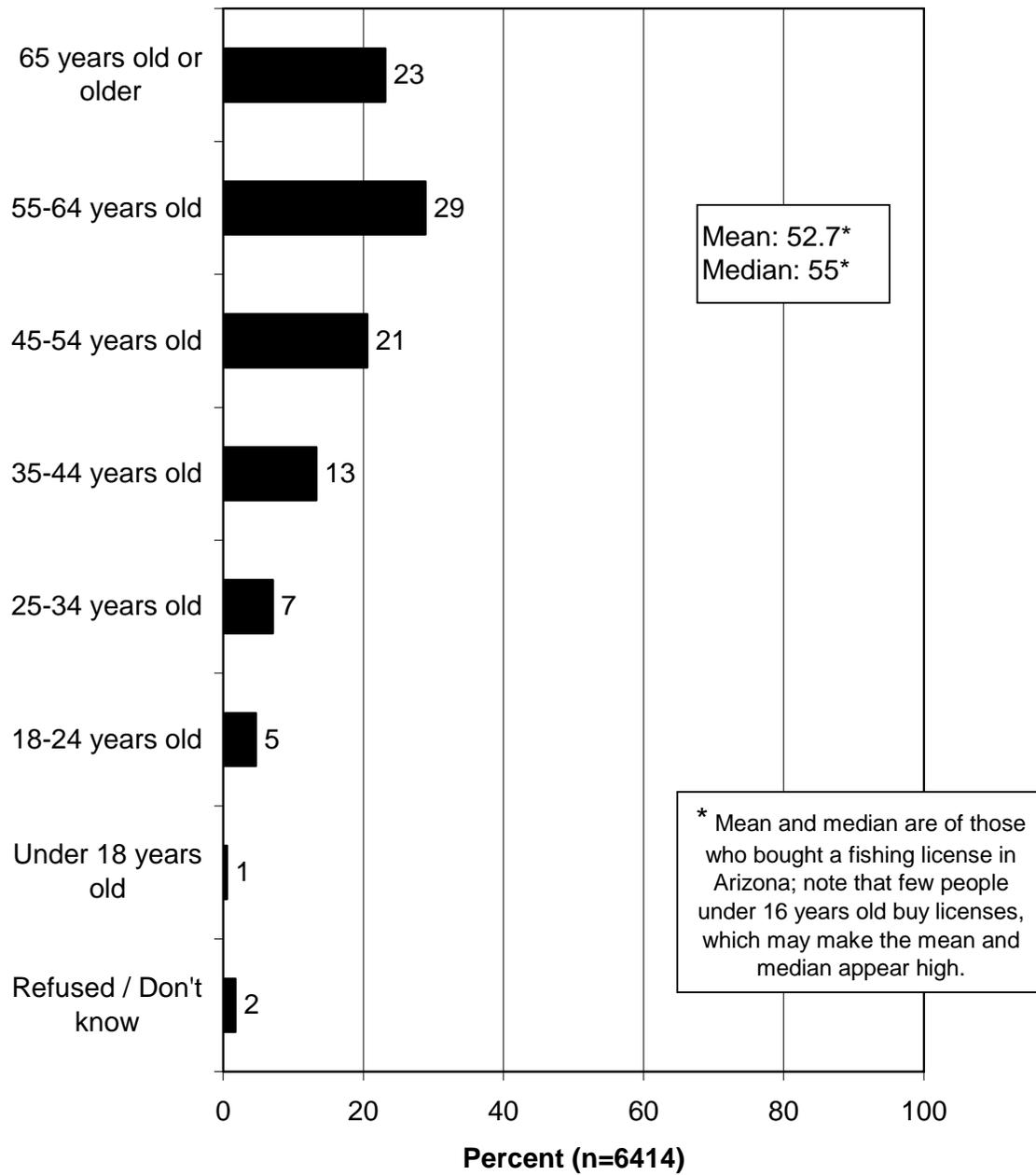
**Q497. Respondent's gender (not asked, observed by interviewer).**

<b>Gender</b>	<b>Apache</b>	<b>Cochise</b>	<b>Coconino</b>	<b>Gila</b>	<b>Graham</b>	<b>Greenlee</b>	<b>La Paz</b>	<b>Maricopa</b>
Male	77	79	77	75	82	78	79	84
Female	23	21	23	25	18	22	21	16

**Q497. Respondent's gender (not asked, observed by interviewer).**

<b>Gender</b>	<b>Mohave</b>	<b>Navajo</b>	<b>Pima</b>	<b>Pinal</b>	<b>Santa Cruz</b>	<b>Yavapai</b>	<b>Yuma</b>	<b>Out-of-State</b>	
Male	83	80	84	86	84	79	86	88	83
Female	17	20	16	14	16	21	14	12	17

**Q491. Respondent's age.**



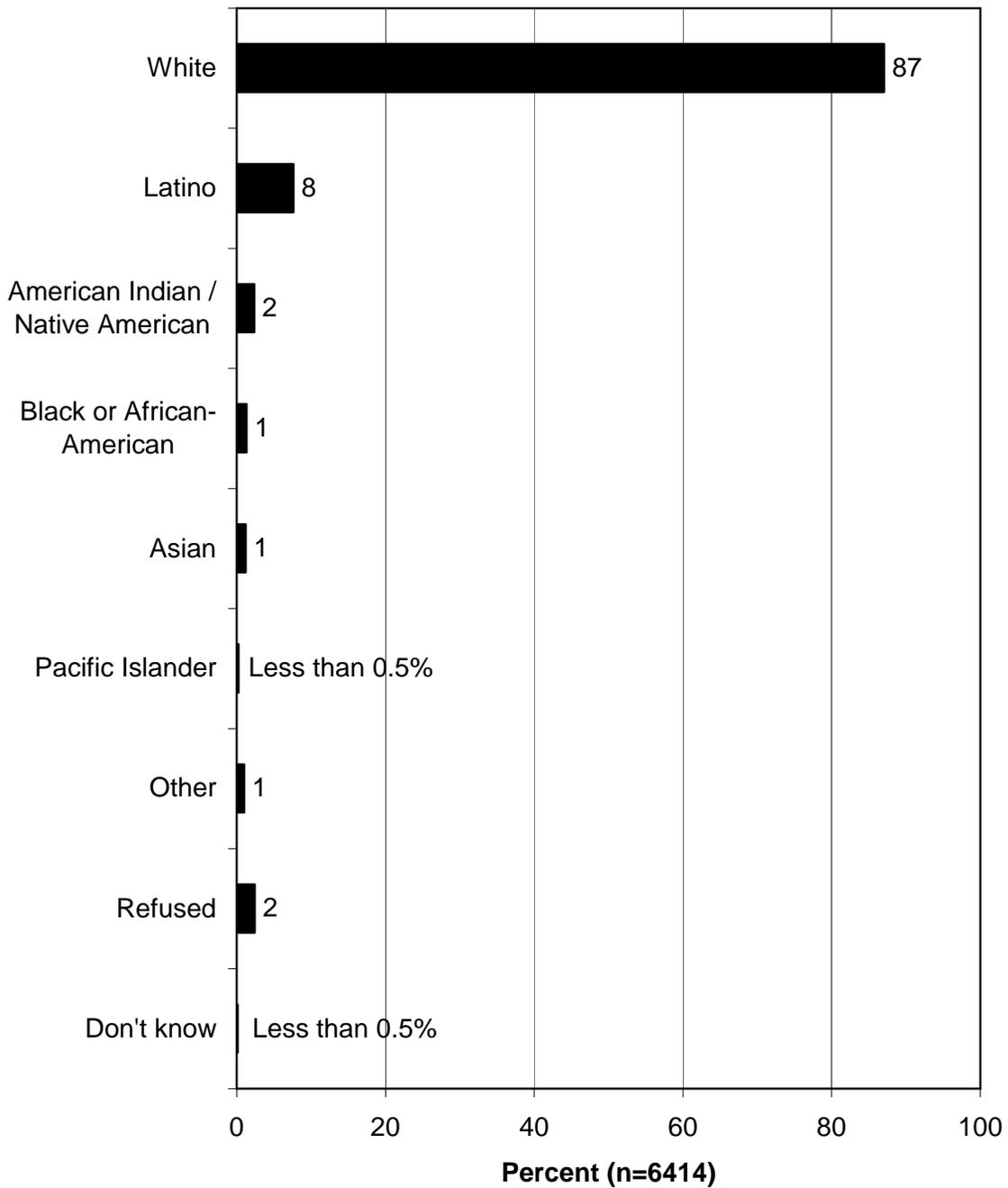
**Q491. Respondent's age.**

Age bracket	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
65 years old or older	16	21	12	28	14	8	38	19
55-64 years old	35	31	31	38	30	32	29	29
45-54 years old	22	20	22	18	22	23	21	23
35-44 years old	13	11	18	6	15	22	7	15
25-34 years old	3	11	11	5	8	9	3	7
18-24 years old	7	4	5	2	9	6	3	4
Under 18 years old	1	2	0	0	0	0	0	1
Refused / Don't know	2	1	2	3	2	0	1	2

**Q491. Respondent's age.**

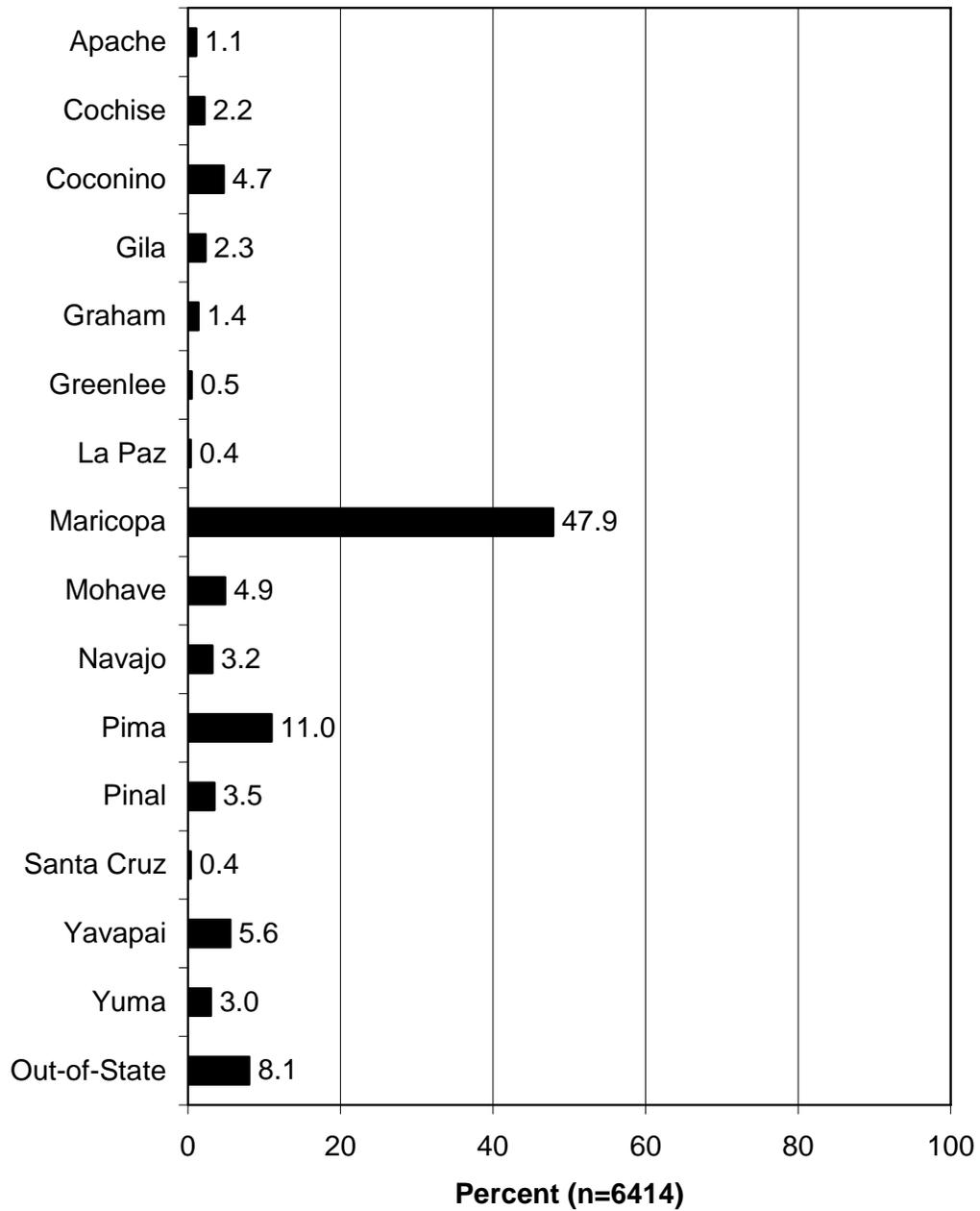
Age bracket	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
65 years old or older	38	21	20	23	16	28	30	47
55-64 years old	27	30	28	26	31	29	24	26
45-54 years old	19	22	21	19	19	19	16	11
35-44 years old	7	12	14	16	10	13	13	5
25-34 years old	6	9	8	8	10	5	9	3
18-24 years old	2	4	7	5	9	4	7	4
Under 18 years old	0	1	0	1	3	1	1	0
Refused / Don't know	1	1	2	2	3	1	1	4

**Q489. What races or ethnic backgrounds do you consider yourself? Please mention all that apply.**

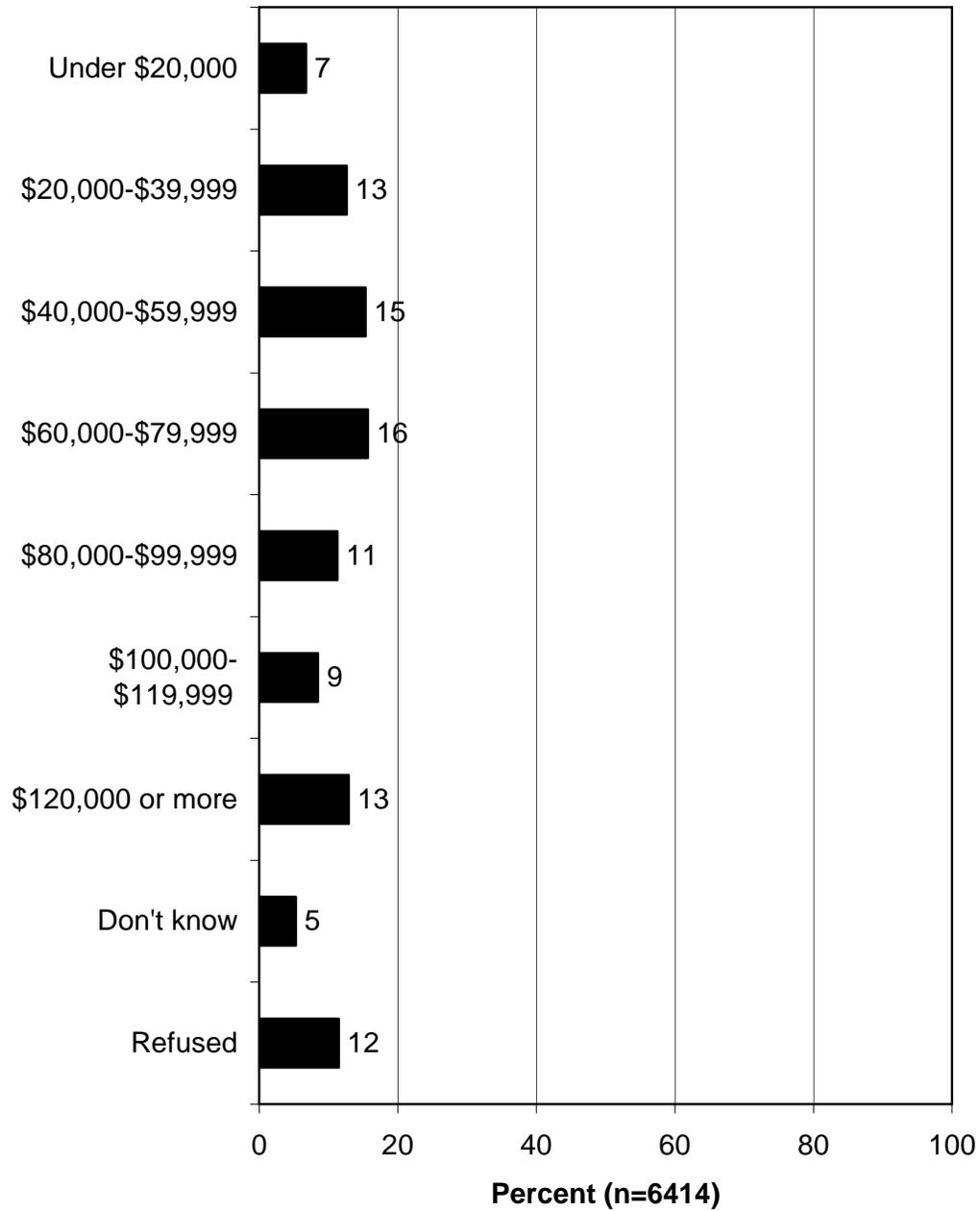




**Q485. Respondent's county of residence.**



**Q486. Which of these categories best describes your total household income before taxes last year?**



**Q486. Which of these categories best describes your total household income before taxes last year?**

Income	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa
Under \$20,000	6	5	7	12	5	9	12	6
\$20,000-\$39,999	12	12	11	19	16	12	21	10
\$40,000-\$59,999	17	15	17	20	19	10	19	13
\$60,000-\$79,999	18	16	15	18	16	28	12	15
\$80,000-\$99,999	15	14	14	7	16	14	8	12
\$100,000-\$119,999	10	12	10	7	7	10	9	10
\$120,000 or more	9	13	12	5	8	13	7	16
Don't know	7	6	5	6	6	1	3	6
Refused	8	7	8	8	7	3	10	13

**Q486. Which of these categories best describes your total household income before taxes last year?**

Income	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Out-of-State
Under \$20,000	14	7	6	5	6	10	10	3
\$20,000-\$39,999	23	17	14	17	16	16	18	11
\$40,000-\$59,999	21	24	15	17	11	21	19	16
\$60,000-\$79,999	15	19	16	17	19	18	15	18
\$80,000-\$99,999	7	9	12	13	11	10	12	9
\$100,000-\$119,999	5	6	7	9	8	4	7	9
\$120,000 or more	6	8	12	9	10	7	8	13
Don't know	4	6	4	4	9	5	8	4
Refused	6	6	13	10	10	10	3	17

## **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.

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