

## Appendix B. Phone Survey Instrument & Methodology

Responsive Management Inc. is a Virginia-based public opinion polling and survey research firm specializing in natural resources, fisheries, wildlife, outdoor recreation and environmental issues. This study was conducted for the Delaware Department of Natural Resources and Environmental Control, Division of Parks and Recreation to assess Delaware residents' (16 years and older) outdoor recreation patterns, trends, and their future outdoor recreation needs. This study entailed a telephone survey of 2,064 Delaware residents.

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

The telephone survey questionnaire was developed cooperatively by Responsive Management and the Division, based on the research team's familiarity with outdoor recreation. Telephone surveying times are Monday through Friday from 9:00 a.m. to 9:00 p.m. Saturday from noon to 5:00 p.m., and Sunday from 5:00 p.m. to 9:00 p.m., local time. The survey was conducted in August 2011. The software used for data collection was Questionnaire Programming Language.

The analysis of data was performed using Statistical Package for the Social Sciences as well as proprietary software developed by Responsive Management. Findings of the telephone survey are reported at a 95% confidence interval (or higher) with a sampling error at most plus or minus 2.15 percentage points.

The survey narrative and questions are below:

INTRODUCTION: Hello, my name is \_\_\_\_\_, and I'm calling on behalf of the state and local recreation agencies to ask some questions about outdoor recreation in Delaware. I am not selling anything and your answers will be kept strictly confidential. Your responses will be used to determine the future plans for outdoor recreation facilities and resources in Delaware. May I speak with someone in the household who is 16 years of age or older?

[begin survey]

For this survey, outdoor recreation includes any activity that takes place in a park, playground, or other outdoor environment. Examples might include, but are not limited to: walking, roller skating, boating, hiking, team sports, or nature activities.

Q1. In general, how important is outdoor recreation in Delaware to you personally? (read list; check only one)

1. Very important
2. Somewhat important
3. Not at all important
4. DNR: Don't know

Q2. Now I'm going to read you a list of outdoor recreation activities. Please tell me if you expect any member of your household, including yourself, to participate in each activity in Delaware during the next 12 months.

1. All-Terrain Vehicle Use (ATVs)
2. Baseball
3. Basketball
4. Bicycling
5. Boating (by canoe or kayak)
6. Boating (by power boat)
7. Camping
8. Disc golf
9. Dog walking
10. Fishing
11. Football
12. Gardening
13. Golf
14. Hiking
15. Horseback riding
16. Horseshoes
17. Hunting
18. Lacrosse
19. Mountain Biking
20. Participating in nature programs
21. Passive rec. in the outdoors (birding/painting/enjoying nature)
22. Picnicking
23. Rollerblading/Roller Skating

24. Roller Hockey
25. Skateboarding
26. Soccer
27. Softball
28. Swimming at the beach
29. Swimming in a pool
30. Tennis
31. Using playgrounds
32. Visiting historic sites
33. Volleyball
34. Walking or jogging
35. DNR: None of these
36. DNR: Don't know

Q3. Are there any other outdoor recreation activities in which any member of your household, including yourself, expect to participate in the next 12 months?

1. Yes (go to Q4)
2. No (go to Q5)
3. DNR: Don't know (go to Q5)

Q4. In what other outdoor recreation activities do you expect to participate in the next 12 months? (open-ended; enter specifics)

Q5. In which three of the activities I just read did you personally participate most often in the past 12 months? (read items from above list as necessary; check only three)

Q6. Overall, how would you rate the facilities available to you in YOUR COMMUNITY for participating in [3 activities in which respondent most often participates]? (read list; check only one)

1. Excellent
2. Good
3. Fair
4. Poor
5. DNR: Don't know

Q7. Overall, how would you rate the facilities available to you in THE STATE OF DELAWARE for participating in [3 activities in which respondent most often participates]? (read list; check only one)

1. Excellent
2. Good
3. Fair
4. Poor
5. DNR: Don't know

Q8. Now please tell me the MOST IMPORTANT reasons you participate in outdoor recreation activities in Delaware. (do not read list; check all that apply)

1. I live close to a park
2. It is affordable
3. To be with family and friends
4. To spend time by myself
5. To enjoy the scenery
6. For my mental well being
7. For my physical fitness
8. For relaxation
9. For the challenge
10. To be close to nature
11. Because of the variety of opportunities available in Delaware
12. DNR: Other (enter specifics)
13. DNR: Don't know

Q9. I'd like to know a little about where you participate in outdoor recreation in Delaware. What is the name of the public outdoor recreation area you visit most frequently? (enter name)

Q10. What city or town is this public outdoor recreation area in? (enter city/town name)

Q11. Thinking about the public outdoor recreation area you visit most frequently, what are the main reasons you choose this area? (do not read list; check all that apply)

1. Live close by
2. Work close by
3. No other parks in the area
4. Aesthetics/like the look of it
5. It has facilities for activities of interest

6. It has facilities for children
7. It has convenient hours
8. Friendly/knowledgeable staff
9. Clean
10. Safe
11. DNR: Other (enter specifics)
12. DNR: Don't know

Q12. And thinking about the area you visited most frequently, approximately how many miles from your home is this area located? (enter number of miles)

Q13. How do you usually get to the area that you visit most frequently?

2. Walk/Jog (skip to Q17)
3. Bike (skip to Q17)
4. Automobile (go to Q14)
5. Motorcycle (go to Q14)
6. Public transportation (go to Q14)
7. DNR: Other (enter specifics)
8. DNR: Don't know (skip to Q14)

Q14. What is the main reason you do not walk, jog, or ride a bike to the area that you visit most frequently? (open-ended; enter reasons)

Q15. Are you able to walk, jog, or ride a bike to ANY park and/or outdoor recreation areas that are near where you live?

1. Yes (skip to Q17)
2. No (go to Q16)
3. DNR: Don't know (skip to Q17)

Q16. Since you told me that you are unable to walk, jog, or ride a bike to any park and/or outdoor recreation areas near where you live, can you tell me which of the following are obstacles for you? (read list; check all that apply)

1. Poor maintenance of sidewalks, bike trails, and bike lanes
2. Lack of sidewalks, crosswalks, and/or pedestrian signals
3. Lack of bike trails or designated bike lanes
4. Traffic/dangerous roads
5. Fear of crime

6. Too far away
7. Physically unable to walk, jog, or a ride a bike to the area
8. DNR: None of these
9. DNR: Don't know

Q17. Are you able to walk, jog, or ride a bike to any walking or biking paths that are near where you live?

1. Yes (skip to Q19)
2. No (go to Q18)
3. DNR: Don't know (skip to Q19)

Q18. Since you told me that you are unable to walk, jog, or bike to any walking or biking paths near where you live, can you tell me which of the following are obstacles for you? (read list; check all that apply)

1. Poor maintenance of sidewalks, bike trails, and bike lanes
2. Lack of sidewalks, crosswalks, and/or pedestrian signals
3. Lack of bike trails or designated bike lanes
4. Traffic/dangerous roads
5. Fear of crime
6. Too far away
7. Physically unable to walk, jog, or a ride a bike to the paths
8. DNR: None of these
9. DNR: Don't know

Q19. Which of the following would encourage you to participate or to participate more actively in outdoor recreation activities in Delaware? (read list; check all that apply)

1. More outdoor FACILITIES AND OPPORTUNITIES close to where you live
2. More INFORMATION about facilities and opportunities
3. Better REPAIR of facilities
4. Better SECURITY within facilities
5. Increased ACCESSIBILITY for persons with disabilities
6. More opportunity to participate in ORGANIZED ACTIVITIES/PROGRAMS
7. DNR: None of these
8. DNR: Don't know

Q20. Is there anything else that would encourage you to participate or to participate more actively in outdoor recreation in Delaware?

1. Yes (go to Q21)
2. No (skip to Q22)
3. DNR: Don't know (skip to Q22)

Q21. What else would encourage you to participate or to participate more actively in outdoor recreation in Delaware? (open-ended; enter specifics)

Q22. Do you agree or disagree with the following statement: I would buy healthier foods and beverages in the vending machines and concession stands in parks and outdoor recreation facilities if they were available. (read list as necessary; check only one)

1. Strongly agree
2. Moderately agree
3. Neither agree nor disagree
4. Moderately disagree
5. Strongly disagree
6. DNR: Don't know

Q23. Are there any facilities you would like to see added to a park in your community?

1. Yes (go to Q24)
2. No (skip to Q25)
3. Don't know (skip to Q25)

Q24. What facilities would you like to see added to a park in your community? (do not read list; check all that apply)

1. Playgrounds for ages 2 to 5
2. Playgrounds for ages 6 to 12
3. Campgrounds
4. Fishing areas
5. Outdoor public swimming pools
6. Biking paths
7. Paved walkways
8. Hiking/walking trails
9. Boating access in coastal waters
10. Boating access in fresh water, such as streams, lakes, and rivers
11. Access for canoes and kayaks
12. Fishing piers
13. Community gardens

14. Mountain biking trails
15. Off-leash dog areas
16. Skateboarding/BMX facilities
17. Football fields
18. Soccer fields
19. Public tennis courts
20. Outdoor basketball courts
21. Public golf courses
22. Baseball fields
23. Softball fields
24. Indoor recreational facilities, such as indoor basketball courts, volleyball courts, and swimming pools
25. DNR: None of these
26. DNR: Other (enter specifics)
27. DNR: Don't know

Q25. Overall, how would you rate the upkeep of parks and outdoor recreation areas in your community? (read list; check only one)

1. Excellent
2. Good
3. Fair
4. Poor
5. DNR: Don't know

Q26. Now I'm going to read a list of programs, and I'd like to know whether you think each item should be a very important, a somewhat important, or not an important priority for STATE AND LOCAL FUNDING.

Q27. First, do you think that more historic education programs should be a very important, a somewhat important, or not an important priority for state and local funding? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q28. Do you think that more nature education programs should be a very important, a somewhat important, or not an important priority for state and local funding? (check only one)



5. Very important priority
6. Somewhat important priority
7. Not at all important priority
8. DNR: Don't know

Q29. What about more organized leagues for team sports?

1. Very important priority (go to Q30)
2. Somewhat important priority (go to Q30)
3. Not an important priority (skip to Q31)
4. DNR: Don't know (skip to Q31)

Q30. For which team sport(s) would you like to see more organized leagues? (do not read list; check all that apply)

1. Soccer
2. Baseball
3. Football
4. Basketball
5. Softball
6. Volleyball
7. Hockey
8. Lacrosse
9. Field hockey
10. DNR: Other (enter specifics)
11. DNR: Don't know

Q31. What about more outdoor recreation programs for senior citizens, that is, those citizens who are 65 years of age or older? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q32. What about outdoor recreation programs for children ages 4-12? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q33. What about more outdoor recreation programs for teens ages 13-17? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q34. What about outdoor recreation programs for persons with disabilities? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q35. What about more cultural and arts programs? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q36. Next please tell me whether you think each of the following items should be a very important, a somewhat important, or not an important priority for STATE AND LOCAL decision makers in Delaware.

Q37. First, do you think funding for public parks should be a very important, a somewhat important, or not an important priority for state and local decision makers in Delaware? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q38. What about acquiring more land for parks and open space in the state of Delaware? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q39. What about bike and pedestrian pathways between places of work, schools, shopping areas, and neighborhoods? (check only one)

1. Very important priority
2. Somewhat important priority
3. Not at all important priority
4. DNR: Don't know

Q40. If funding for parks and recreation areas was available, would you rather it be used to improve and enhance EXISTING areas or invested in NEW parks and recreation areas? (check only one)

1. Improve/enhance existing parks and recreation areas
2. Invested in new parks and recreation areas
3. DNR: Don't know

Q41. I'd like to ask you about some possible benefits that people associate with park or recreation areas. I'm going to name several benefits and I'd like to know if you think each one is a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area.

Q42. Health and fitness? (Is this a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q43. Connecting with nature? (Is this a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q44. A sense of peace and stress relief? (Is this a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q45. Positive family activities? (Is this a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q46. Healthy childhood development? (Is this a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q47. Attracting businesses? (Is this a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q48. Enhancing property values? (Is this a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q49. Preserving open space? (Is this a very important, somewhat important, not very important, or not at all important benefit of living near a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q50. Protecting natural resources? (Is this a very important, somewhat important, or not at all important benefit of a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q51. Cleaner air and water? (Is this a very important, somewhat important, or not at all important benefit of a park or recreation area?) (check only one)

1. Very important
2. Somewhat important
3. Not very important
4. Not at all important
5. DNR: Don't know

Q52. I'm going to read several statements regarding the value of parks and recreation areas and I'd like for you to tell me if you agree or disagree with each one. For each statement, please tell

me if you strongly agree, moderately agree, neither agree nor disagree, moderately disagree, or strongly disagree.

Q53. Parks, open spaces and conservation areas are a luxury rather than a necessity. (read list as necessary; check only one)

1. Strongly agree
2. Moderately agree
3. Neither agree nor disagree
4. Moderately disagree
5. Strongly disagree
6. DNR: Don't know

Q54. Public recreation programs are a luxury rather than a necessity. (read list as necessary; check only one)

1. Strongly agree
2. Moderately agree
3. Neither agree nor disagree
4. Moderately disagree
5. Strongly disagree
6. DNR: Don't know

Q55. Parks, open space and conservation areas should be budget priorities even during economic hard times. (read list as necessary; check only one)

1. Strongly agree
2. Moderately agree
3. Neither agree nor disagree
4. Moderately disagree
5. Strongly disagree
6. DNR: Don't know

Q56. What is your zip code? (enter zip code)

Q57. How many children, age 17 or younger, do you have living in your household? (if no children under age 17 living in the household, skip to Q66)

Q58. What are the ages of the children living in your household? (enter age of each child based on response to Q57 [i.e., computer will provide separate follow-ups according to number of children])

Q59. I'd like to ask you some questions about [your child's/one of your children's] moderate and vigorous physical activity. [IF MORE THAN ONE CHILD UNDER AGE 17 LIVING IN HOUSEHOLD: For the following questions, please answer for the child in your household who had the most recent birthday.] Moderate physical activities cause small increases in breathing or heart rate; vigorous physical activities cause sweating, hard breathing, and larger increases in heart rate. For these next questions, we are interested in your child's amount of both types of physical activity.

Q60. On a typical WEEKDAY, how many minutes or hours does [your child/your child with the most recent birthday] spend doing physical activity? Please consider the total amount of time your child spends on activities such as playing actively outside, doing sports, exercising in gym class, walking to school, or any other kind of physical activity. (specify number of minutes or hours)

Q61. How many minutes or hours of this WEEKDAY physical activity take place in a public recreation area such as a park, trail, or playground? (specify number of minutes or hours, not to exceed amount entered in Q60)

Q62. On a typical WEEKEND day, how many minutes or hours does [your child/your child with the most recent birthday] spend doing physical activity? Please consider the total amount of time your child spends on activities such as playing actively outside, doing sports, exercising in gym class, walking to school, or any other kind of physical activity. (specify number of minutes or hours)

Q63. How many minutes or hours of this WEEKEND day physical activity take place in a public recreation area such as a park, trail, or playground? (specify number of minutes or hours, not to exceed amount entered in Q62)

Q64. During the past 7 days, how many days was [your child/your child with the most recent birthday] physically active for at least 60 minutes per day? Please consider all the time [your child/your child with the most recent birthday] spent in any kind of physical activity that increased his/her heart rate and made him/her breathe hard some of the time. (enter number of days, not to exceed 7)

Q65. How much of this activity, in minutes or hours, took place in a public recreation area such as a park, trail, or playground? (specify number of MINUTES OR HOURS, not days)

Q66. What is the highest level of education you have completed? (read list as necessary; check only one)

1. Not a high school graduate
2. High school graduate or equivalent
3. Some college or trade school, no degree
4. Associate's degree or trade school degree
5. Bachelor's degree
6. Master's degree
7. Professional or doctorate degree (e.g., M.D. or Ph.D.)
8. DNR: Other (enter specifics)
9. DNR: Refused
10. DNR: Don't know

Q67. What races or ethnic background do you consider yourself? (read list as necessary; check all that apply)

1. White or Caucasian
2. Black or African-American
3. Hispanic or Latino (includes Mexican, Central American, etc.)
4. Native American or Alaskan native or Aleutian
5. Korean
6. Japanese
7. Chinese
8. Filipino
9. Native Hawaiian or other Pacific Islander
10. Vietnamese
11. Middle Eastern
12. African (NOT African-American)
13. South Asian (from India, Pakistan, Bangladesh, etc.)
14. DNR: Other (enter specifics)
15. DNR: Refused
16. DNR: Don't know

Q68. May I ask your age? (enter age)



Q69. Respondent's gender (observed, not asked: male/female).