

**1710SOR**  
**Small Off-Road Engine (SORE) Population and Activity Survey: Residential Survey**

- SHLO Hello, this is \_\_\_\_\_, calling from the Social Science Research Center at California State University, Fullerton. Have I reached [TELEPHONE NUMBER]?
1. CONTINUE
  2. DISPOSITION RECORD APPROPRIATELY
- INT I am calling from the Social Science Research Center, at California State Fullerton. We're conducting a randomized telephone survey of 1,152 California residents 18 and over to obtain information on lawn and garden and similar equipment used by individuals in their households. This survey takes about 15 to 20 minutes to complete and consists of questions about your household's use of lawn and garden as well other types of outdoor power equipment. Even if your household does not have such equipment, your feedback is very important to our study. The data being collected in this survey will be kept strictly confidential to the extent permitted by law and in no case will be used to identify any one individual or household.
- Are you willing to participate in our study now?
1. YES, CONTINUE
  2. CALLBACK
  3. REFUSED
- TO I have a few questions to make sure you are eligible to participate in our study.
- AGE1 First, may I confirm that you are 18 years of age or older?
1. YES, CONTINUE
  2. NO, ASK FOR INDIVIDUAL OVER 18 AND RETURN TO INT
  3. NO INDIVIDUAL OVER 18, END SURVEY
- LSC1 Do you own a landscaping or yard care business?
1. YES
  0. NO [SKIP TO INT2]
- BUS Unfortunately individuals who own a landscaping or yard care business are not eligible to participate in the current study, however we will be conducting a survey of such businesses at a later date.
- LSC2 Would you be willing to provide the contact information and name of your business for potential participation in a survey of landscaping businesses at a later date?
1. YES, SPECIFY NAME>  
SPECIFY PHONE>  
SPECIFY EMAIL>
  0. NO
- [END SURVEY]
- INT2 Before we begin, I need to read you some information about your rights as a study participant. This study involves no more than minimal risk, and there are no known harms or discomforts

associated with this study beyond those encountered in daily life. You are free to decline to answer any survey question or to decline to participate entirely. Only research staff at the SSRC will have access to the data collected during this survey. Our center director, Laura Gil-Trejo, has no financial interest in the results of this study, and the research is being done solely for academic purposes.

If you have questions about your rights as a research participant, I have some numbers I can provide for you. [IF REQUESTED] You may contact California State University, Fullerton Regulatory Compliance Coordinator at (657) 278-7640, or the Institutional Review Board (IRB) Chair at (657) 278-5062. For any other questions about the study, contact Laura Gil-Trejo at 657-278-7691.

Now that you have this information, would you like to proceed?

1. YES, CONTINUE
2. REFUSED [END SURVEY]

T1 First, I'd like to ask you some questions about the place where you live.

Q1 Which of the following best describes the property where you currently live?

1. Single family home
2. Apartment
3. Condominium
4. Townhouse
5. Manufactured or mobile home
6. Other, SPECIFY>
7. DON'T KNOW
9. REFUSED

Q2 Does the place where you live have a lawn, garden, or other landscaped area that needs to be maintained? If you live in an apartment, condo, or mobile home, do not include shared areas such as courtyards that are maintained by the property owner or an association.

1. YES
0. NO [SKIP TO T2]
7. DON'T KNOW
9. REFUSED

Q3 Who maintains the lawn, garden or landscaped areas at your home? Please let me know whether each of the following applies. Is it...

1. Yourself or someone in your household
2. A gardener or landscaper you pay yourself
3. A gardener or landscaper hired by the landlord
4. Our homeowner's association (HOA) takes care of it
5. Some other person or entity, SPECIFY>

1. SELECTED
0. NOT SELECTED
7. DON'T KNOW
9. REFUSED

[IF Q3\_1 = 1 ONLY, SKIP TO T2]

Q4 How many times per month does the gardener or landscaper work on your yard?

1. SPECIFY NUMBER OF TIMES>
7. DON'T KNOW
9. REFUSED

Q5 How long does it take the gardener or landscaper to complete services each time?

1. SPECIFY IN MINUTES> SKIP TO T2
2. SPECIFY IN HOURS SKIP TO T2
777. DON'T KNOW
999. REFUSED

Q5a Would you say it takes the them....

1. Less than 15 minutes
2. 15 to 29 minutes
3. 30 to 44 minutes
4. 45 to 59 minutes
5. 1 hour to under 2 hours
6. 2 to 3 hours
7. More than 3 hours, SPECIFY>
77. DON'T KNOW
99. REFUSED

T2 Now I'd like to ask you some questions about the power lawn and garden equipment you might own.

Q6 Do you own any power lawn and garden equipment such as a lawn mower or weedwacker at your residence?

1. YES
0. NO
7. DON'T KNOW
9. REFUSED

[IF Q6 = 0, SKIP TOT3, OTHERWISE CONTINUE]

Q7 I am going to read a list a several different types of power lawn and garden equipment. For each, please tell me whether you own that type of equipment at your residence and how many you own. Do you own a(n)...

- i. Chainsaw
- ii. Lawn mower (walk-behind)
- iii. Leaf blower or vacuum
- iv. String trimmer/weedwacker
- v. Some other type of power lawn/garden equipment, SPECIFY TYPE>
  1. YES SPECIFY NUMBER OF EACH EQUIPMENT TYPE
  0. NO
  3. I DO NOT OWN THAT TYPE OF EQUIPMENT
  7. DON'T KNOW
  9. REFUSED

[CYCLE THROUGH FOR Q9 TO Q13 FOR EACH Q7 = 1]

Q8 What is the power type for this piece of equipment?

1. Gasoline engine [SKIP TO Q10]
2. Electric motor
3. Other, SPECIFY> [SKIP TO Q10]
7. DON'T KNOW
9. REFUSED

Q9 Is this electric equipment corded or cordless?

1. CORDED
2. CORDLESS
7. DON'T KNOW
9. REFUSED

Q10 On average, how often do you use this piece of equipment throughout the year? Would you say...

1. Less than once each season
2. Less than once a month but at least once each season
3. At least once a month but not more than twice a month
4. More than twice a month but not weekly
5. Once a week
6. More than once a week, SPECIFY HOW OFTEN>
7. DON'T KNOW
9. REFUSED

Q11 How long do you use this piece of equipment each time?

0. SPECIFY IN MINUTES> SKIP TO Q12
1. SPECIFY IN HOURS SKIP TO Q12
777. DON'T KNOW
999. REFUSED

- Q11a Would you say....
1. Five minutes or less
  2. Six to ten minutes
  3. 11 to 15 minutes
  4. 16 to 30 minutes
  5. 31 to 45 minutes
  6. 46 to 60 minutes
  7. More than an hour, SPECIFY HOW LONG>
  77. DON'T KNOW
  99. REFUSED

- Q12 What is the approximate age of this equipment?
1. Less than a year old
  2. One year old but less than three years old
  3. Three years old but less than six years old
  4. Six to ten years old
  5. More than 10 years old
  7. DON'T KNOW
  9. REFUSED

- Q13 How much longer do you plan to keep this equipment?
1. Less than a year more
  2. One year but less than three years more
  3. Three years but less than six years more
  4. Six to ten years
  5. Greater than 10 years or more
  6. Until it breaks/fails
  7. DON'T KNOW
  9. REFUSED

**CONTINUE TO T3**

- Q14 Do you own any manual lawn and garden equipment (such as reel mowers, rakes)?
1. YES
  0. NO
  7. DON'T KNOW
  9. REFUSED

T3 Now I want to ask you about other types of outdoor power equipment you might use at your home aside from lawn and garden equipment

- Q15 I am going to read a list a several different types of outdoor power equipment. For each, please tell me whether you own that type of equipment at your residence. Do you own at least one...
1. Compressor (not hard-wired)
  2. Generator
  3. Go cart
  4. Pressure washer
  5. Pump

6. Snow blower
7. Utility cart/golf cart
8. Welder
9. Some other type of outdoor power equipment, SPECIFY>
  1. YES, SPECIFY NUMBER>
  0. NO
  7. DON'T KNOW
  9. REFUSED

[CYCLE THROUGH FOR Q16 TO Q21 FOR EACH Q15 = 1]

[IF Q15\_1 THROUGH Q15\_9 ALL = 0, SKIP TO TRANS 4]

Q16 What is the power type for this piece of equipment?

1. Gasoline engine            SKIP TO Q18
2. Electric motor
3. Other, SPECIFY>            SKIP TO Q18
7. DON'T KNOW
9. REFUSED

Q17 Is this electric equipment corded or cordless?

1. CORDED
2. CORDLESS
7. DON'T KNOW
9. REFUSED

Q18 On average, how often do you use this piece of equipment throughout the year? Would you say...

1. Less than once each season
2. Less than once a month but at least once each season
3. At least once a month but not more than twice a month
4. More than twice a month but not weekly
5. Once a week
6. More than once a week, SPECIFY>
7. DON'T KNOW
9. REFUSED

Q19 How long do you use this piece of equipment each time?

0. SPECIFY IN MINUTES>            SKIP TO Q20
1. SPECIFY IN HOURS            SKIP TO Q20
777. DON'T KNOW
999. REFUSED

Q19a Would you say that you use this piece of equipment..

1. Five minutes or less
2. Six to ten minutes
3. 11 to 15 minutes
4. 16 to 30 minutes

- 5. 31 to 45 minutes
- 6. 46 to 60 minutes
- 7. More than an hour
- 77. DON'T KNOW
- 99. REFUSED

Q20 What is the approximate age of this equipment?

- 1. Less than a year old
- 2. One year old but less than three years old
- 3. Three years old but less than six years old
- 4. Six to ten years old
- 5. More than 10 years old
- 7. DON'T KNOW
- 9. REFUSED

Q21 How much longer do you plan to keep this equipment?

- 1. Less than a year more
- 2. One year but less than three years more
- 3. Three years but less than six years more
- 4. Six to ten years
- 5. Greater than 10 years or more
- 6. Until it breaks/fails
- 7. DON'T KNOW
- 9. REFUSED

[IF Q7 ALL = 0 AND Q15 ALL = 0, SKIP TO T4]

Q22 Is maintenance ever performed on any of your power equipment?

- 1. YES
- 0. NO [SKIP TO T4]
- 7. DON'T KNOW [SKIP TO T4]
- 9. REFUSED [SKIP TO T4]

Q23 Who performs the maintenance on your equipment?

- 1. A dealer or small engine shop
- 2. You or a household member
- 3. Someone else, SPECIFY>
- 7. DON'T KNOW
- 9. REFUSED

Q24 How often is engine maintenance performed on your equipment?

- 1. Per manufacturer's recommended schedule
- 2. Annually
- 3. Only when it stops working or breaks
- 4. On some other schedule, SPECIFY>
- 7. DON'T KNOW
- 9. REFUSED

T4 Now I'd like to ask you some questions about your future plans to purchase power equipment.

Q25 Are you planning to buy [IF ANY Q7 = 1 OR Q15 = 1, "additional"] power lawn and garden or other outdoor power equipment in the next 12 months?

- 1. YES
- 0. NO [SKIP TO Q33]
- 7. DON'T KNOW [SKIP TO Q33]
- 9. REFUSED [SKIP TO Q33]

Q26 Will this equipment replace old equipment you are getting rid of or will you add it to the equipment you already have?

- 1. REPLACEMENT
- 2. ADDITIONAL
- 7. DON'T KNOW
- 9. REFUSED

Q27 How many pieces of equipment do you plan to purchase?

- 1. SPECIFY TYPE AND NUMBER OF PIECES>
- 7. DON'T KNOW
- 9. REFUSED

Q28 What type of equipment do you plan to purchase?

- 1. SPECIFY UP TO 6 EQUIPMENT TYPES>
- 7. DON'T KNOW
- 9. REFUSED

[CYCLE THROUGH Q29 THROUGH Q30 FOR EACH PIECE IN Q28]

Q29 And do you plan to purchase an electric or gasoline powered version of this equipment?

- 1. ELECTRIC [SKIP TO Q32]
- 2. GASOLINE ENGINE POWERED
- 3. Other, SPECIFY>
- 7. DON'T KNOW
- 9. REFUSED

Q30 To your knowledge, is this piece of equipment available in an electric version?

- 1. YES
- 0. NO [SKIP TO Q32]
- 7. DON'T KNOW
- 9. REFUSED

Q31 What would it take for you to purchase an electric version instead of the engine-powered one you said you expect to buy? I'm going to read a few options. You can select more than one.

- 1. Lower cost/rebates/tax breaks
- 2. Better performance
- 3. Longer battery life
- 4. Some other reason, SPECIFY
- 7. DON'T KNOW



9. REFUSED

[Q26 = 1 CONTINUE, OTHERWISE SKIP TO T4]

Q32 What will you do with your old equipment when you replace it with new equipment? Please select the most likely option from the following list.

1. Throw it in the trash
2. Recycle it
3. Give it away/sell it
4. Keep it
5. Do something else with it, SPECIFY>
7. DON'T KNOW
9. REFUSED

[SKIP TO T4]

Q33 If you were to purchase a piece of lawn and garden or outdoor power equipment, what would it take for you to purchase electric equipment instead of gas-powered equipment?

1. Lower cost/rebates/tax breaks than gas-powered
2. Better performance
3. Longer battery life
4. Some other reason, SPECIFY>
5. I am not aware of an electric version of the equipment I would want
7. DON'T KNOW
9. REFUSED

T4 Now I am going to ask you a few questions regarding gas cans.

Q34 How many gas cans do you own to refuel your equipment or automobiles?

1. SPECIFY NUMBER OF CANS> [IF # = 0, SKIP TO T5]
7. DON'T KNOW
9. REFUSED

Q35 How many of these [INSERT NUMBER OF CANS FROM Q34] are made of??

1. Plastic SPECIFY NUMBER
2. Metal SPECIFY NUMBER
3. Some other material, SPECIFY MATER AND NUMBER>
7. DON'T KNOW
9. REFUSED

Q36 What size is this gas can/most of these cans? Is it/ are they...

1. 1-gallon
2. 2.5 gallon
3. 5 gallon
4. Some other size, SPECIFY IN GALLONS>
7. DON'T KNOW
9. REFUSED

- Q37 What is the approximate age of this /these gas cans?
1. Less than a year old
  2. One year old but less than three years old
  3. Three years old but less than six years old
  4. Six to ten years old
  5. More than 10 years old
  7. DON'T KNOW
  9. REFUSED
- Q38 How often do you typically refill this gas can/these gas cans?
1. Less than once each season
  2. Less than once a month but at least once each season
  3. At least once a month but not more than twice a month
  4. More than twice a month but not weekly
  5. Only once a week
  6. More than once a week, SPECIFY>
  7. DON'T KNOW
  9. REFUSED
- Q39 Have you made any changes to your gas cans to make them easier to use?
1. YES
  0. NO [SKIP TO TRAN5]
  7. DON'T KNOW [SKIP TO QTRAN5]
  9. REFUSED [SKIP TO TRAN5]
- Q40 What changes have you made? Have you...
1. Replaced the spout
  2. Modified the spout
  3. Made some other change, SPECIFY>
  7. DON'T KNOW
  9. REFUSED
- T5 Finally, I have a few questions for you for descriptive purposes. As I mentioned before, all information you provide is completely confidential, and your name will not be connected to your responses in the final report created for this study.
- Q41 First, how many people live in your household most or all of the time?
1. SPECIFY NUMBER OF PEOPLE>
  7. DON'T KNOW
  9. REFUSED
- Q42 Which of the following categories best describes your age? You can stop me when I get to the one that applies to you.
1. 18-24
  2. 25-44
  3. 45-64
  4. 65+

- 7. DON'T KNOW
- 9. REFUSED

Q43 Is your annual household income from all sources... [CODED VALUES IN PARENTHESES]

READ ONLY IF NECESSARY:

- 1. LESS THAN \$25,000
- 2. \$25,000 TO \$49,999
- 3. \$50,000 TO \$74,999
- 4. \$75,000 TO \$99,999
- 5. \$100,000 OR MORE
- 77. DON'T KNOW
- 99. REFUSED

T6 We are almost done with the survey. Before you go, I wanted to let you know about another survey we will be conducting in the near future. For that survey, we will be asking owners of landscaping and yard care businesses about their equipment. So, I have just one more questions for you.

D44 Would you be willing to provide the contact information for your gardener/landscaper or the name of their business for potential participation in a similar survey?

- 1. YES, SPECIFY NAME>  
SPECIFY PHONE>  
SPECIFY EMAIL>
- 0. NO

CON That is the end of our survey. Thank you for your input. We greatly appreciate it. Have a good afternoon/evening.