

California Air Resources Board
Small Off-Road Engine Working Group

Population and Activity Survey

Phase 1: California households – Clarifications and Revisions

Clarifications

General

- The survey will be conducted in four phases
 1. California households
 2. California businesses
 3. California landscaping businesses (licensed and unlicensed)
 4. Exchange program participants (lawn mower, leaf blower, etc.)
- The questionnaire discussed in the October 27, 2017, working group meeting was only for the household phase of the survey
- The household survey was not split, and the targeted number of respondents was reached
- The total number of responses (1152) targeted for the household survey was chosen to ensure the results were within the 95% confidence interval.
- The random sampling of California phone numbers was designed to result in responses that were representative of the state population in terms of household type and geographic location

Q1. Homeless individuals were not included in this survey. Cell phone numbers of homeless individuals may have been included in the survey sample, but none of the respondents identified himself/herself as homeless.

Q10. Equipment that is not used can be identified by the response to Q10. An example response would be “zero times per year.”

Q12. A question was asked during the working group meeting regarding inclusion of older equipment in the current emission inventory for small off-road engines. OFFROAD2007, the current emission inventory model for small off-road engines, includes a small portion of the population of equipment up to 31 years before the year of a given scenario. For example, for 2017, a small population of model year 1986 equipment is included in the inventory. The results of the current survey will be used to update assumptions about the age of equipment in California and its use. This updated information will be used in the updated emission inventory.

Q34 – Q40. No additional questions regarding gas cans were added, beyond modifying Q37 and Q38, to avoid further lengthening the questionnaire. Although additional questions might help to gain more information about respondents' gas cans and their use, CARB and CSUF staff determined that adding questions may result in fewer respondents completing the survey.

Revisions

CAL. A question was added to confirm the respondent lives in California.

CHKLAND. A question was added to confirm that a respondent was using a landline. This question was not asked if CHKCELL was asked.

CHKCELL. A question was added to confirm that a respondent was using a cell phone. This question was not asked if CHKLAND was asked.

Q3. Response options for those other than household members were combined. The options in the final version are as follows:

1. Yourself or someone in your household
2. Some other person or entity
3. A combination of the two
7. DON'T KNOW
9. REFUSED

Q7. The note after this question was revised to read “[CYCLE THROUGH FOR Q8 TO Q13 FOR EACH Q7 = 1]” to correct a typographical error. This note instructs the interviewer to ask Q8 through Q13 for each piece of equipment that a respondent owns.

Q10. This question was modified to allow respondents to give an answer for frequency of use in number of times per year, month or week. If a respondent did not provide this answer, Q10a was asked that gave the respondent a range from which to choose.

Q12. This question was modified to allow respondents to give an answer for age of a piece of equipment in years or months. If a respondent did not provide this answer, Q12a was asked that gave the respondent a range from which to choose. Options were added to Q12a that included ages from 10-20 years old, 20-30 years old and more than 30 years old.

Q13. This question was modified to allow respondents to give an answer for length of time a respondent expects to keep a piece of equipment in years or months. If a respondent did not provide this answer, Q13a was asked that gave the respondent a range from which to choose.

Q18. This question was modified to allow respondents to give an answer for frequency of use in number of times per year, month or week. If a respondent did not provide this answer, Q18a was asked that gave the respondent a range from which to choose.

Q20. This question was modified to allow respondents to give an answer for age of a piece of equipment in years or months. If a respondent did not provide this answer, Q20a was asked that gave the respondent a range from which to choose. Options were added to Q20a that included ages from 10-20 years old, 20-30 years old and more than 30 years old.

Q21. This question was modified to allow respondents to give an answer for length of time a respondent expects to keep a piece of equipment in years or months. If a respondent did not provide this answer, Q21a was asked that gave the respondent a range from which to choose.

Q22. This question was modified to ask about “engine maintenance” rather than all types of “maintenance.”

Q23. This question was modified to ask who performs “engine maintenance” on the equipment.

Q29a. This question was added for respondents who indicate in Q29 that they will purchase electric equipment. This question assesses whether they will purchase corded or cordless electric equipment.

Q31. This question and the response options were reworded to avoid leading respondents toward any of the response options.

Q33. This question and the response options were reworded to avoid leading respondents toward any of the response options.

Q37. This question was modified to allow respondents to give an answer for age of their gas cans in years or months. If a respondent did not provide this answer, Q37a was asked that gave the respondent a range from which to choose. Options were added to Q37a that included ages from 10-20 years old, 20-30 years old and more than 30 years old.

Q38. This question was modified to allow respondents to give an answer for frequency of filling their gas cans in number of times per year, month or week. If a respondent did not provide this answer, Q38a was asked that gave the respondent a range from which to choose.

T7 – DUALUSE. A section was added to ensure households were not counted more than once in the survey and the respondents were representative of the state population.

T8-Q44. Transition #8 (T8) and Q44 were combined for clarity.