

ANALYSIS OF THE 2007 CALIFORNIA HOUSEHOLD PORTABLE REFUELING STATION SURVEY

Prepared for the California Air Resources Board by the
Institute for Social Research at the California State University, Sacramento

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Methodology:

A random sample of households in the state of California was contacted between December 12th and December 20th, 2007 regarding the use of refueling stations. Of the 1,956 households contacted, only three terminated the interview in the middle, and 1,243 agreed to participate, providing a response rate of 64 percent for this study (Table 1). These refueling stations must be portable (with or without wheels), over ten gallons in size, and have a nozzle, pump, and hose. These stations are often called ‘gas caddy’ or ‘gas cart.’ Table two illustrates the distribution of California households by county and the distribution of surveyed respondents by county. Results indicate the sample is representative of the distribution of households by county in the State of California. The population estimates were calculated using a 95% confidence level ($p < .05$). Based on the survey results, the estimated number of households in the State of California that have a portable refueling station is 268,166, which is .7 percent of current household population in California. The average number of refueling stations per household in the sample is 1.38. Applying the confidence interval for the study suggests the average (mean) number of refueling stations ranges from 1.34 to 1.42 stations per household or between 364,390 and 376,001 refueling stations in California households (Table 3).

Table 1: Survey Response Rate¹

	Percent of cases	Number of cases
Completed interviews	63.1%	1,235
Partial Interviews	0.0%	3
Refusal	36.5%	713
Total	100.0%	1,956

¹ The sample was a random digit sample for California including households listed in telephone directories and those with unlisted, or non-published, numbers. Telephone interviews were conducted December 12 through December 20, 2007.

Table 2: Comparison of the Actual Distribution of California Households by County with the Distribution of Survey Respondents

County	Actual ¹		Survey Respondents	
	Number	Percent	Number	Percent
Alameda	1,497,230	4.1%	43	3.2%
Alpine	1,260	0.0%	0	0.0%
Amador	33,783	0.1%	5	0.4%
Butte	211,661	0.6%	18	1.4%
Calaveras	45,571	0.1%	3	0.2%
Colusa	21,531	0.1%	0	0.0%
Contra Costa	1,030,942	2.8%	37	2.8%
Del Norte	25,328	0.1%	1	0.1%
El Dorado	177,620	0.5%	12	0.9%
Fresno	898,115	2.4%	45	3.4%
Glenn	28,507	0.1%	2	0.2%
Humboldt	127,591	0.3%	7	0.5%
Imperial	160,641	0.4%	3	0.2%
Inyo	18,099	0.0%	0	0.0%
Kern	763,645	2.1%	31	2.3%
Kings	127,463	0.3%	4	0.3%
Lake	63,082	0.2%	4	0.3%

Table 2: Comparison of the Actual Distribution of California Households by County with the Distribution of Survey Respondents

County	Actual ¹		Survey Respondents	
	Number	Percent	Number	Percent
Lassen	25,938	0.1%	3	0.2%
Los Angeles	10,152,352	27.6%	334	25.1%
Madera	139,789	0.4%	5	0.4%
Marin	245,329	0.7%	15	1.1%
Mariposa	16,816	0.0%	0	0.0%
Mendocino	88,022	0.2%	8	0.6%
Merced	246,754	0.7%	10	0.8%
Modoc	9,313	0.0%	1	0.1%
Mono	13,609	0.0%	0	0.0%
Monterey	403,663	1.1%	14	1.1%
Napa	130,696	0.4%	6	0.5%
Nevada	98,787	0.3%	6	0.5%
Orange	3,054,128	8.3%	86	6.5%
Placer	321,245	0.9%	10	0.8%
Plumas	20,940	0.1%	0	0.0%
Riverside	1,994,651	5.4%	68	5.1%
Sacramento	1,381,171	3.8%	48	3.6%
San Benito	57,296	0.2%	1	0.1%
San Bernardino	1,977,314	5.4%	76	5.7%
San Diego	2,998,024	8.1%	123	9.2%
San Francisco	788,496	2.1%	22	1.7%
San Joaquin	662,646	1.8%	25	1.9%
San Luis Obispo	249,168	0.7%	15	1.1%
San Mateo	722,921	2.0%	14	1.1%
Santa Barbara	406,846	1.1%	12	0.9%
Santa Clara	1,777,519	4.8%	52	3.9%
Santa Cruz	254,229	0.7%	13	1.0%
Shasta	177,960	0.5%	13	1.0%
Sierra	3,449	0.0%	1	0.1%
Siskiyou	45,275	0.1%	2	0.2%
Solano	409,235	1.1%	15	1.1%
Sonoma	469,796	1.3%	19	1.4%
Stanislaus	513,663	1.4%	28	2.1%
Sutter	92,493	0.3%	4	0.3%
Tehama	60,756	0.2%	1	0.1%
Trinity	13,934	0.0%	0	0.0%
Tulare	423,105	1.1%	12	0.9%
Tuolumne	52,429	0.1%	4	0.3%
Ventura	811,978	2.2%	38	2.9%
Yolo	185,009	0.5%	10	0.8%
Yuba	69,570	0.2%	3	0.2%
Total	36,798,383	100.0%	1332	100.0%

¹ SOURCE: California Department of Finance, Demographic Research Unit, E-5 County/State Population and Housing Estimates, 1/1/2007

Table 3: Confidence Intervals¹ for the Mean Number and Total Number of Refueling Stations per Household Statewide

	Statewide
Estimated households with refueling stations	268,166 ²
Refueling stations Mean 1.38/ standard error .744	1.34 - 1.42
Estimated refueling stations in households	364,390 - 376,001

¹ 95% confidence level (alpha = .05). In order to make table easier to read means and standard errors of the mean were rounded to two decimal places. However four decimal places were retained in computing the confidence intervals presented.

² SOURCE: California Department of Finance, Demographic Research Unit, E-5 County/State Population and Housing Estimates, 1/1/2007

Responses to Survey Questions:

- Nine respondents, out of the 1,235 households contacted, had a small portable refueling station. This represents a very small proportion of sample.
- The majority had one station (75 percent), one respondent had two stations, and one had three stations. There were two mid-terminates after the number of stations question, so no further information could be obtained (Table 4).
- Two-thirds of the respondents indicated they used the station to store diesel while the other third indicated they used gasoline.
- Station sizes range from 14 gallons to 250 gallons.
- Two-thirds (66 percent) of the stations were made of metal, one-fifth (two stations) were made of plastic, and one respondent did not know what material was used (Table 5).
- Respondents indicated the stations were used to fill both vehicles and non-vehicular equipment. The vehicles refueled were pick-up trucks, cars, and marine vessels. The types of equipment refueled included a diesel powered heater and stoves (Table 6).
- Respondents indicated refueling instances ranged from once a year to ten times a year with three respondents unsure how often the station was refueled.
- More than one-half (55 percent) of the stations were stored outside and 44 percent were stored inside. According to respondents, the stations were stored outside in a variety of ways: under a canopy, under an awning, in a shed, or with no shade structure.
- According to respondents, a majority of stations were stored with fuel in them, and most were stored with a full tank (Table 7).

- The stations were stored in a variety of counties and zip codes; however, only a few stations were used in other counties besides the county where the station was stored (Table 8).
- The age of the stations ranged from one month to seven and one-half years old.
- According to respondents, only two stations had been replaced. The ages of their previous stations were one year and nine years old.
- None of the respondents noticed cracks or leaks in the stations (Table 9).
- Table 10 indicates the manufacturers of stations and where stations were purchased.

Table 4: Responses to Screener Question¹

Survey Question	Response category	Percent of cases	Number of cases
Do you own a small portable refueling station?	Yes	0.7%	9
	No	98.5%	1,217
	Don't know	0.7%	9
	Total	100.0%	1,235
How many do you own?	1 Station	75.0%	6
	2 Stations	12.5%	1
	3 Stations	12.5%	1
	Total	100.0%	8 ²

¹ This table is based on number of households who have the station (n=8)

² Two mid-terminate after number of stations question

Table 5: Responses to Liquid Stored and Size of Station¹

Survey Question	Response category	Percent of cases	Number of cases
What do you store in the station?	Gasoline	33.3%	3
	Diesel	66.7%	6
	Total	100.0%	9
What size is your station?	14 gallons	11.1%	1
	15 gallons	11.1%	1
	50 gallons	22.2%	2
	55 gallons	11.1%	1
	98 gallons	22.2%	2
	250 gallons	11.1%	1
	Don't know	11.1%	1
Total	100.0%	9	
What is the station made of?	Metal	66.7%	6
	Plastic	22.2%	2
	Don't know	11.1%	1
	Total	100.0%	9

¹ This table is based on number of stations rather than number of households due to mid-terminates table is based on nine tanks (n=9)

Table 6: Responses to Refueling Vehicles or Equipment¹

Survey Question	Response category	Percent of cases	Number of cases
Does station refuel motor vehicles?	Yes	55.6%	5
	No	44.4%	4
	Total	100.0%	9
What kind of motor vehicle	Off road vehicles	40.0%	2
	Marine Vessels	20.0%	1
	Car	40.0%	2
	Total	100.0%	5
Does the station refuel non-vehicular equipment?	Yes	33.3%	3
	No	66.7%	6
	Total	100.0%	9
What kind of equipment?	Stove	66.7%	2
	Heater	33.3%	1
	Total	100.0%	3

¹ This table is based on number of stations (n=9)

Table 7: Responses to Refueling Instances and Storage¹

Survey Question	Response category	Percent of cases	Number of cases
How many times a year to you put fuel in the station?	1 time	22.2%	2
	2 times	11.1%	1
	4 times	22.2%	2
	10 times	11.1%	1
	Don't know	33.3%	3
	Total	100.0%	9
How is the station stored?	Inside	44.4%	4
	Outside	55.6%	5
	Total	100.0%	9
How is it stored outside?	Under a canopy	40.0%	2
	Awning	20.0%	1
	Shed	20.0%	1
	No shade structure	20.0%	1
	Total	100.0%	5
Is the station stored with fuel in it?	Yes	77.8%	7
	No	22.2%	2
	Total	100.0%	9
How much fuel?	Full	85.7%	6
	25% full	14.3%	1
	Total	100.0%	7

¹ This table is based on number of stations (n=9)

Table 8: Responses of Household on Location Where the Station is Stored¹

Survey Question	Response category	Percent of cases	Number of cases
County where the station is stored	Fresno	14.3%	1
	Humboldt	14.3%	1
	Lake	14.3%	1
	Los Angeles	14.3%	1
	Nevada	14.3%	1
	San Bernardino	14.3%	1
	Ventura	14.3%	1
	Total	100.0%	7
Zip code where the station is stored	92410	16.7%	1
	93060	16.7%	1
	93711	16.7%	1
	95453	16.7%	1
	95519	16.7%	1
	95959	16.7%	1
	Total	100.0%	6
Do you use the station in other counties?	Yes	50.0%	3
	No	50.0%	3
	Total	100.0%	6
What other counties? ³	Fresno	33.3%	1
	Santa Barbara	33.3%	1
	Santa Clara	33.3%	1
	Total	100.0%	3

¹ This table is based on number of households rather than number of stations (n=7)

² There was a mid-terminate after this question (n=6)

³ This represents the other counties in which the station is used.

Table 9: Responses to Station Age and Damage¹

Survey Question	Response category	Percent of cases	Number of cases
How old is the station?	1 month	25.0%	2
	1 year	12.5%	1
	2 years	25.0%	2
	3.5 years	25.0%	2
	7.5 years	12.5%	1
	Total	100.0%	8
Have you ever replaced the station?	Yes	25.0%	2
	No	75.0%	6
	Total	100.0%	8
How old was the previous station?	1 year	50.0%	1
	9 years	50.0%	1
	Total	100.0%	2
Ever notice any cracks in the station?	No	100.0%	8
	Total	100.0%	8
Ever notice any liquid leaking from the station?	No	100.0%	8
	Total	100.0%	8

¹ This table is based on number of stations rather than number of households (n=8)

Table 10: Responses of Households on Who Manufactured and Where the Station was Purchased¹

Survey Question	Response category	Percent of cases	Number of cases
Who manufactured the station?	Durmax	16.7%	1
	Nissan	16.7%	1
	Don't know	66.7%	4
	Total	100.0%	6
Who did you purchase the station from?	Footprint recycling	16.7%	1
	Jonah Oil	16.7%	1
	Overton's catalog	16.7%	1
	Whitecap	16.7%	1
	Don't know	33.3%	2
	Total	100.0%	6

¹ This table is based on households rather than stations (n=6)

Appendix A

PORTABLE REFUELING STATION HOUSEHOLD SURVEY 2007 (Random)

Hello my name is _____ and I am a student calling from Sacramento State University on behalf of the California Air Resources Board. We are collecting information on mobile and fitted refueling stations in the state of California. These stations must be over 10 gallons and store only Gasoline or Diesel fuel. These stations cannot be stationary, they must be mobile.

Would you mind answering some easy questions for me?

It should only take between 3-8 minutes depending on your responses.

Your responses are voluntary and you may refuse to answer any question at any time. May we begin?

Q: Screener

Do you own a small portable refueling station (maybe on wheels and must have a nozzle and hose, could also be called gas caddy or gas cart)?

1. YES
2. NO (skip to otha)
3. DON'T KNOW (skip to otha)
4. REFUSED (skip to otha)

Q2.

How many stations do you own?

1. 1 station (skip to Q3)
2. 2 stations (skip to Q3)
3. 3 stations (skip to Q3)
4. 4 stations (skip to Q3)
5. More than 4 stations (skip to Q2a)
6. DON'T KNOW (skip to Q3)
7. REFUSED (skip to Q3)

Q2a.

How many stations do you own? _____

Liquid stored in stations

Q3.

What do you store in the station?

1. Gasoline
2. Diesel
3. Both gas and diesel
- 4 OTHER VOLATILE/FLAMMABLE LIQUID, PLEASE SPECIFY _____
5. OTHER NON VOLATILE/FLAMMABLE LIQUID, PLEASE SPECIFY _____

Q32nd

What do you store in the 2nd station?

1. Gasoline
2. Diesel
3. Both gas and diesel
- 4 OTHER VOLATILE/FLAMMABLE LIQUID, PLEASE SPECIFY _____
5. OTHER NON VOLATILE/FLAMMABLE LIQUID, PLEASE SPECIFY _____

Size

Q4.

What size would you say your station is? _____ GALLONS

INTERVIEWER NOTE: FOR SMALL REFUELERS THE CUT OFF SIZE IS 100 GALLONS!!!! ENTER THE NUMBER THE RESPONDENT SAYS. IF THEY DON'T KNOW, ASK FOR ESTIMATION. IF THEY STILL DON'T KNOW ENTER 9999.

Q42nd.

What size would you say your 2nd station is? _____ GALLONS

INTERVIEWER NOTE: FOR SMALL REFUELERS THE CUT OFF SIZE IS 100 GALLONS!!!! ENTER THE NUMBER THE RESPONDENT SAYS. IF THEY DON'T KNOW, ASK FOR ESTIMATION. IF THEY STILL DON'T KNOW ENTER 9999.

Type

Q5.

Is the station made out of metal or plastic?

1. METAL
2. PLASTIC
3. DON'T KNOW
4. REFUSED

Q52nd.

Is the 2nd station made out of metal or plastic?

1. METAL
2. PLASTIC
3. DON'T KNOW
4. REFUSED

Usage

Q6. Is the station used to refuel motor vehicles?

1. YES
2. NO (*skip to Q7a*)
3. DON'T KNOW (*skip to Q7a*)
4. REFUSED (*skip to Q7a*)

Q6b.

If so, what kind?

1. Off highway recreational vehicles ATV, motorcycles, snowmobiles
2. Marine Vessels such as boat or jet ski
3. Pick-up trucks or RV
4. OTHER _____
5. DON'T KNOW
6. REFUSED

Q62nd.

Is the 2nd station used to refuel motor vehicles?

1. YES
2. NO (*skip to Q7a*)
3. DON'T KNOW (*skip to Q7a*)

4. REFUSED *(skip to Q7a)*

Q6b2nd.

If so, what kind?

1. Off highway recreational vehicles ATV, motorcycles, snowmobiles
2. Marine Vessels such as boat or Jet Ski
3. Pick-up trucks or RV
4. OTHER _____
5. DON'T KNOW
6. REFUSED

Q7a.

Is the station used to refuel non-vehicular equipment?

1. YES
2. NO *(skip to Q8a)*
3. DON'T KNOW *(skip to Q8a)*
4. REFUSED *(skip to Q8a)*

Q7b.

If so what kind?

1. Farm equipment
2. Construction equipment
3. Maintenance equipment such as landscaping
4. Forestry equipment
5. Personal use such as lawn mowers, leaf blowers, or hobby equipment
6. OTHER _____
7. DON'T KNOW
8. REFUSED

Q7a2nd.

Is the 2nd station used to refuel non-vehicular equipment?

1. YES
2. NO *(skip to Q8a)*
3. DON'T KNOW *(skip to Q8a)*
4. REFUSED *(skip to Q8a)*

Q7b2nd.

If so, what kind?

1. Farm equipment
2. Construction equipment
3. Maintenance equipment such as landscaping
4. Forestry equipment
5. Personal use such as lawn mowers, leaf blowers, or hobby equipment
6. OTHER _____
7. DON'T KNOW
8. REFUSED

Refueling instances

Q8a.

How many times a year do you put fuel in the station? _____

INTERVIEWER NOTE: IF RESPONDENT GIVES YOU A RANGE PLEASE TRY AND GET THEM TO PICK A NUMBER, IF THEY SAY DON'T KNOW CHOOSE THE MIDPOINT. IF THEY REFUSE ENTER 9999

Q8a2nd.

How many times a year do you put fuel in the 2nd station? _____

INTERVIEWER NOTE: IF RESPONDENT GIVES YOU A RANGE PLEASE TRY AND GET THEM TO PICK A NUMBER, IF THEY SAY DON'T KNOW CHOOSE THE MIDPOINT. IF THEY REFUSE ENTER 9999

Storage

Q9a.

Is the station stored inside or outside?

1. INSIDE (skip to Q9d)
2. OUTSIDE
3. DON'T KNOW (skip to Q9d)
4. REFUSED (skip to Q9d)

Q9b.

How is the station stored outside?

1. Under a canopy? (skip to Q9d)
2. Under some other shade structure?
3. No shade structure (skip to Q9d)
4. DON'T KNOW (skip to Q9d)
5. REFUSED (skip to Q9d)

Q9c.

What type of structure? _____

Q9d.

Is the station stored with fuel in it?

1. YES
2. NO
3. DON'T KNOW
4. REFUSED

Q9e.

How much fuel is in the station when it is stored?

1. Full
2. 50%
3. 80%
4. DON'T KNOW
5. REFUSED

Q9a2nd.

Is the 2nd station store inside or outside?

1. INSIDE (skip to Q9d2nd)

2. OUTSIDE
3. DON'T KNOW (skip to Q9d2nd)
4. REFUSED (skip to Q9d2nd)

Q9b2nd.

How is the 2nd station store outside?

1. Under a canopy? (skip to Q9d2nd)
2. Under some other shade structure?
3. No shade structure (skip to Q9d2nd)
4. DON'T KNOW (skip to Q9d2nd)
5. REFUSED (skip to Q9d2nd)

Q9c2nd.

What type of structure? _____

Q9d2nd.

Is the 2nd station stored with fuel in it?

1. YES
2. NO
3. DON'T KNOW
4. REFUSED

Q9e2nd.

How much fuel is in the 2nd station when it is stored?

1. Full
2. 50%
3. 80%
4. DON'T KNOW
5. REFUSED

Location

Random

Q10a. What county is the station stored when not in use?

- | | | |
|-----------------|----------------|-------------------|
| 1. Alameda | 21. Marin | 41. San Mateo |
| 2. Alpine | 22. Mariposa | 42. Santa Barbara |
| 3. Amador | 23. Mendocino | 43. Santa Clara |
| 4. Butte | 24. Merced | 44. Santa Cruz |
| 5. Calaveras | 25. Modoc | 45. Shasta |
| 6. Colusa | 26. Mono | 46. Sierra |
| 7. Contra Costa | 27. Monterey | 47. Siskiyou |
| 8. Del Norte | 28. Napa | 48. Solano |
| 9. El Dorado | 29. Nevada | 49. Sonoma |
| 10. Fresno | 30. Orange | 50. Stanislaus |
| 11. Glenn | 31. Placer | 51. Sutter |
| 12. Humboldt | 32. Plumas | 52. Tehama |
| 13. Imperial | 33. Riverside | 53. Trinity |
| 14. Inyo | 34. Sacramento | 54. Tulare |

- | | | |
|-----------------|---------------------|-----------------------|
| 15. Kern | 35. San Benito | 55. Tuolumne |
| 16. Kings | 36. San Bernardino | 56. Ventura |
| 17. Lake | 37. San Diego | 57. Yolo |
| 18. Lassen | 38. San Francisco | 58. Yuba |
| 19. Los Angeles | 39. San Joaquin | 59. Don't Know County |
| 20. Madera | 40. San Luis Obispo | 60. Out of State |

Q10b.

What zip code do you store the station when not in use? _____

INTERVIEWER NOTE: IF THEY DON'T KNOW OR REFUSE PLEASE ENTER 99999

Q10c.

Do you use the station in other counties besides where you store it?

1. YES
2. NO (skip to Q11)
3. DON'T KNOW (skip to Q11)
4. REFUSED (skip to Q11)

Q10e.

What other counties do you use the station in? **(Select all that apply)**

- | | | |
|-----------------|---------------------|-----------------------|
| 1. Alameda | 21. Marin | 41. San Mateo |
| 2. Alpine | 22. Mariposa | 42. Santa Barbara |
| 3. Amador | 23. Mendocino | 43. Santa Clara |
| 4. Butte | 24. Merced | 44. Santa Cruz |
| 5. Calaveras | 25. Modoc | 45. Shasta |
| 6. Colusa | 26. Mono | 46. Sierra |
| 7. Contra Costa | 27. Monterey | 47. Siskiyou |
| 8. Del Norte | 28. Napa | 48. Solano |
| 9. El Dorado | 29. Nevada | 49. Sonoma |
| 10. Fresno | 30. Orange | 50. Stanislaus |
| 11. Glenn | 31. Placer | 51. Sutter |
| 12. Humboldt | 32. Plumas | 52. Tehama |
| 13. Imperial | 33. Riverside | 53. Trinity |
| 14. Inyo | 34. Sacramento | 54. Tulare |
| 15. Kern | 35. San Benito | 55. Tuolumne |
| 16. Kings | 36. San Bernardino | 56. Ventura |
| 17. Lake | 37. San Diego | 57. Yolo |
| 18. Lassen | 38. San Francisco | 58. Yuba |
| 19. Los Angeles | 39. San Joaquin | 59. Don't Know County |
| 20. Madera | 40. San Luis Obispo | 60. Out of State |

Q10a2nd.

What county is the 2nd station stored in when not in use?

- | | | |
|------------|--------------|-------------------|
| 1. Alameda | 21. Marin | 41. San Mateo |
| 2. Alpine | 22. Mariposa | 42. Santa Barbara |

- | | | |
|-----------------|---------------------|-----------------------|
| 3. Amador | 23. Mendocino | 43. Santa Clara |
| 4. Butte | 24. Merced | 44. Santa Cruz |
| 5. Calaveras | 25. Modoc | 45. Shasta |
| 6. Colusa | 26. Mono | 46. Sierra |
| 7. Contra Costa | 27. Monterey | 47. Siskiyou |
| 8. Del Norte | 28. Napa | 48. Solano |
| 9. El Dorado | 29. Nevada | 49. Sonoma |
| 10. Fresno | 30. Orange | 50. Stanislaus |
| 11. Glenn | 31. Placer | 51. Sutter |
| 12. Humboldt | 32. Plumas | 52. Tehama |
| 13. Imperial | 33. Riverside | 53. Trinity |
| 14. Inyo | 34. Sacramento | 54. Tulare |
| 15. Kern | 35. San Benito | 55. Tuolumne |
| 16. Kings | 36. San Bernardino | 56. Ventura |
| 17. Lake | 37. San Diego | 57. Yolo |
| 18. Lassen | 38. San Francisco | 58. Yuba |
| 19. Los Angeles | 39. San Joaquin | 59. Don't Know County |
| 20. Madera | 40. San Luis Obispo | 60. Out of State |

Q10b2nd.

In what zip code do you store the 2nd station when not in use? _____

INTERVIEWER NOTE: IF THEY DON'T KNOW OR REFUSE PLEASE ENTER 99999

Q10c2nd.

Do you use the 2nd station in other counties besides where you store it?

1. YES
2. NO (skip to Q11)
3. DON'T KNOW (skip to Q11)
4. REFUSED (skip to Q11)

Q10d2nd.

What other counties do you use the 2nd station in? **(Select all that apply)**

- | | | |
|-----------------|----------------|-------------------|
| 1. Alameda | 21. Marin | 41. San Mateo |
| 2. Alpine | 22. Mariposa | 42. Santa Barbara |
| 3. Amador | 23. Mendocino | 43. Santa Clara |
| 4. Butte | 24. Merced | 44. Santa Cruz |
| 5. Calaveras | 25. Modoc | 45. Shasta |
| 6. Colusa | 26. Mono | 46. Sierra |
| 7. Contra Costa | 27. Monterey | 47. Siskiyou |
| 8. Del Norte | 28. Napa | 48. Solano |
| 9. El Dorado | 29. Nevada | 49. Sonoma |
| 10. Fresno | 30. Orange | 50. Stanislaus |
| 11. Glenn | 31. Placer | 51. Sutter |
| 12. Humboldt | 32. Plumas | 52. Tehama |
| 13. Imperial | 33. Riverside | 53. Trinity |
| 14. Inyo | 34. Sacramento | 54. Tulare |

- | | | |
|-----------------|---------------------|-----------------------|
| 15. Kern | 35. San Benito | 55. Tuolumne |
| 16. Kings | 36. San Bernardino | 56. Ventura |
| 17. Lake | 37. San Diego | 57. Yolo |
| 18. Lassen | 38. San Francisco | 58. Yuba |
| 19. Los Angeles | 39. San Joaquin | 59. Don't Know County |
| 20. Madera | 40. San Luis Obispo | 60. Out of State |

Q11.

Have you ever noticed any cracks in the station?

1. YES
2. NO
3. DON'T KNOW
4. REFUSED

Q112nd.

Have you ever noticed any cracks in the 2nd station?

1. YES
2. NO
3. DON'T KNOW
4. REFUSED

Q12.

Have you ever noticed any liquid leaking from the station?

1. YES
2. NO
3. DON'T KNOW
4. REFUSED

Q122nd.

Have you ever noticed any liquid leaking from the 2nd station?

1. YES
2. NO
3. DON'T KNOW
4. REFUSED

Q13.

How old is the station? _____ YEARS OLD

INTERVIEWER NOTE: IF THEY GIVE YOU MONTHS PLEASE USE DECIMAL POINT EXAMPLE: 2 YEARS 4 MONTHS 2.4. IF THEY STILL DON'T KNOW PLEASE ASK THEM TO ESTIMATE. IF THEY STILL DON'T KNOW ENTER 999

Q132nd.

How old is the 2nd station? _____ YEARS OLD

INTERVIEWER NOTE: IF THEY GIVE YOU MONTHS PLEASE USE DECIMAL POINT EXAMPLE: 2 YEARS 4 MONTHS 2.4. IF THEY STILL DON'T KNOW PLEASE ASK THEM TO ESTIMATE. IF THEY STILL DON'T KNOW ENTER 999

Q14a.

Have you ever replaced the station?

1. YES
2. NO (skpQ15)
3. DON'T KNOW (skpQ15)
4. REFUSED (skpQ15)

Q14b.

How old was the previous station before you replaced it? _____ YEARS OLD

INTERVIEWER NOTE: IF RESPONDENT GIVES YOU A RANGE PLEASE TRY AND GET THEM TO PICK A NUMBER, IF THEY SAY DON'T KNOW CHOOSE THE MIDPOINT. IF THEY REFUSE ENTER 9999.

Q14a2nd.

Have you ever replaced the 2nd station?

1. YES
2. NO (skpQ15)
3. DON'T KNOW (skpQ15)
4. REFUSED (skpQ15)

Q14b2nd.

How old was the previous station before you replaced it? _____ YEARS OLD

INTERVIEWER NOTE: IF RESPONDENT GIVES YOU A RANGE PLEASE TRY AND GET THEM TO PICK A NUMBER, IF THEY SAY DON'T KNOW CHOOSE THE MIDPOINT. IF THEY REFUSE ENTER 9999.

Q15.

Who manufactured the station? _____

INTERVIEWER NOTE: IF THEY DO NOT KNOW PLEASE INDICATE BY TYPING DON'T KNOW. YOU MUST HIT NEXT WITH MOUSE TO CONTINUE.

Q152nd.

Who manufactured the 2nd station? _____

INTERVIEWER NOTE: IF THEY DO NOT KNOW PLEASE INDICATE BY TYPING DON'T KNOW. YOU MUST HIT NEXT WITH MOUSE TO CONTINUE.

Q16.

Which company did you purchase the station from? _____

INTERVIEWER NOTE: IF THEY DO NOT KNOW PLEASE INDICATE BY TYPING DON'T KNOW. YOU MUST HIT NEXT WITH MOUSE TO CONTINUE.

Q162nd.

Which company did you purchase the 2nd station from? _____

INTERVIEWER NOTE: IF THEY DO NOT KNOW PLEASE INDICATE BY TYPING DON'T KNOW. YOU MUST HIT NEXT WITH MOUSE TO CONTINUE.

Ask if Q2 > 2

Q2c.

What is the size of the 3rd station? _____ GALLONS

Q2e.

What is the size of the 4th station? _____ GALLONS

Q:OTHa.

Do you have any type of mobile/portable refueling station?

1. YES
2. NO
3. DON'T KNOW
4. REFUSED

QOTHb.

What type of station do you have? _____

INTERVIEWER NOTE: IF THEY DO NOT KNOW PLEASE INDICATE BY TYPING DON'T KNOW. YOU MUST HIT NEXT WITH MOUSE TO CONTINUE.

QOTHc.

What size is that station? _____ GALLONS

INTERVIEWER NOTE: IF THEY DO NOT KNOW PLEASE INDICATE BY TYPING DON'T KNOW. YOU MUST HIT NEXT WITH MOUSE TO CONTINUE.

Q:Transdem

I have only a few more questions about demographics.

Demographics

Q17. Which of the following age groups includes you?

1. Under 18
2. 18 to 24
3. 25 to 44
4. 45 to 64
5. 65 or older
6. DECLINE TO SAY

Q18.

What is your gender?

1. Male
2. Female
3. REFUSED

Q: Endtrans

Those are all the questions I have for you.

Thank you for your time! If you are interested, you can visit the Air Resources Board online at: www.arb.ca.gov

Q: Notqal

That is all the information I needed. You are not qualified for our study.

Thank you for your time.