

Final Analysis of the 2008 California Survey of Registered Off-Highway Vehicle Owners: Usage and Storage

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

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Section 1: Methodology

The Institute for Social Research (ISR) at California State University, Sacramento conducted a computer assisted telephone interview (CATI) of registered off highway vehicle (OHV) owners to provide the California Air Resources Board (ARB) with information about statewide usage and storage of OHVs. The ARB provided the ISR with Department of Motor Vehicles (DMV) registration records of OHVs in the state of California.

Sample Selection:

This database included all registrations for OHVs statewide excluding snowmobiles. The study population's criteria for inclusion in the sample were currently registered OHV's, model year 1980 and above, type vehicle 61-69, and residential use only (795,380). Registration records contained the name and address of registered owners, but did not contain a phone number. To conduct a household telephone survey, ISR had Scientific Telephone Samples (STS) match the DMV registration data against an STS database and append matched phone numbers. The match rate was low on records sent to STS. The total sample sent to STS was 76,327 and the phone numbers matched were 20,177 for a match rate of 26 percent.

To ensure that there was a representative sample of households with registered OHV owners, a random sample was selected using the random selection function in SPSS (the Statistical Package for the Social Sciences). Then a multi-step process was undertaken to identify records of owners with multiple OHVs. First, duplicate names and addresses were identified and a single record was randomly selected to get a random sample of households. After the phone numbers were appended, the sample was checked for duplicate phone numbers. Out of the 20,177 sample records matched there were 19,810 unduplicated sample records available for the study. This constitutes the sampling frame for the study.

The survey was conducted using WinCATI software from Sawtooth Technologies. The ability to generalize survey results to a larger population depends on the response rate of a survey. The use of CATI helps increase the accuracy of responses collected and reduces the non-response rate. The non-response rate is reduced by making multiple attempts to reach potential respondents. These call attempts are randomly spread throughout the course of a study so that numbers are not called at the same time of day or on the same day of the week over and over again.

Interview Summary:

The analysis described in this report is based on telephone interviews conducted from January 21, 2009 to February 7, 2009. Of the 1,868 registered owners contacted 1,127 participated in the interview, providing a response rate of 60 percent (Table 1). Most interviews (90%) were conducted with the registered owner of the OHV. The remaining ten percent were conducted with another person who uses the OHV.

Table 1: Survey Response Rate

	Number of cases	Percentage
Completed interviews	1,127	60.3%
Partial interviews	39	2.1%
Refusals	702	37.6%
Total	1,868	100.0%

The distribution of the survey respondents by county is representative of the study population as shown in Table 2. Table 3 displays the distribution of the study population, sample population, and survey respondents by model. There is a slight over-representation of 4-wheel vehicles, all terrain vehicles, and all other motorcycles and a minor under-representation of motocross and trail motorcycles.

There was a small percentage (3.9%) of survey respondents who indicated they had not used their OHV in over two years. Limited information was collected from those OHV owners.

Section 2 of this report describes the responses to the survey questions. As requested by the ARB, respondents were asked the same questions about a second OHV. Information was collected from 376 respondents on their second OHV and of those only 52 respondents said the usage and storage information was different for the second OHV (13.9%). In the summary of survey responses, the report focuses on the first OHV, unless there are notable differences with responses for the second OHV.

Table 2: Distribution of Study Population, Sample, and Survey Respondents by County^{ab}

	Study Population		Sample Population		Survey Respondents	
	N	%	N	%	N	%
Alameda	13,839	1.7%	403	2.0%	21	1.9%
Alpine	43	0.0%	--	--	--	--
Amador	2,861	0.4%	46	0.2%	5	0.4%
Butte	9,608	1.2%	281	1.4%	31	2.8%
Calaveras	3,450	0.4%	71	0.4%	4	0.4%
Colusa	1,223	0.2%	42	0.2%	3	0.3%
Contra Costa	17,509	2.2%	537	2.7%	34	3.0%
Del Norte	595	0.1%	16	0.1%	2	0.2%
El Dorado	11,358	1.4%	235	1.2%	14	1.2%
Fresno	17,003	2.1%	443	2.2%	41	3.6%
Glenn	1,911	0.2%	79	0.4%	3	0.3%
Humboldt	6,717	0.8%	189	1.0%	16	1.4%
Imperial	6,583	0.8%	223	1.1%	9	0.8%
Inyo	1,573	0.2%	46	0.2%	5	0.4%
Kern	26,218	3.3%	633	3.2%	39	3.5%
Kings	3,981	0.5%	123	0.6%	2	0.2%
Lake	3,360	0.4%	71	0.4%	4	0.4%
Lassen	2,420	0.3%	45	0.2%	6	0.5%
Los Angeles	117,409	14.8%	2,875	14.5%	142	12.6%
Madera	4,943	0.6%	121	0.6%	14	1.2%
Marin	2,415	0.3%	74	0.4%	5	0.4%
Mariposa	1,257	0.2%	33	0.2%	4	0.4%
Mendocino	5,253	0.7%	145	0.7%	11	1.0%
Merced	6,553	0.8%	160	0.8%	8	0.7%
Modoc	624	0.1%	13	0.1%	2	0.2%
Mono	838	0.1%	23	0.1%	2	0.2%
Monterey	7,540	0.9%	255	1.3%	11	1.0%
Napa	3,473	0.4%	112	0.6%	4	0.4%
Nevada	5,975	0.8%	169	0.9%	24	2.1%
Orange	57,018	7.2%	1,411	7.1%	62	5.5%
Placer	15,804	2.0%	357	1.8%	24	2.1%
Plumas	2,048	0.3%	46	0.2%	1	0.1%
Riverside	75,863	9.5%	1,770	8.9%	82	7.3%
Sacramento	24,439	3.1%	522	2.6%	34	3.0%
San Benito	3,253	0.4%	92	0.5%	5	0.4%
San Bernardino	71,490	9.0%	1,504	7.6%	68	6.0%
San Diego	79,560	10.0%	1,799	9.1%	77	6.8%
San Francisco	1,205	0.2%	30	0.2%	1	0.1%
San Joaquin	15,450	1.9%	364	1.8%	13	1.2%
San Luis Obispo	10,325	1.3%	336	1.7%	25	2.2%
San Mateo	7,029	0.9%	222	1.1%	15	1.3%
Santa Barbara	8,036	1.0%	210	1.1%	15	1.3%
Santa Clara	19,175	2.4%	492	2.5%	19	1.7%
Santa Cruz	6,178	0.8%	175	0.9%	10	0.9%
Shasta	12,212	1.5%	315	1.6%	30	2.7%
Sierra	240	0.0%	--	--	--	--
Siskiyou	1,997	0.3%	51	0.3%	2	0.2%
Solano	9,050	1.1%	263	1.3%	14	1.2%
Sonoma	12,750	1.6%	397	2.0%	23	2.0%
Stanislaus	15,469	1.9%	410	2.1%	34	3.0%
Sutter	3,644	0.5%	113	0.6%	10	0.9%
Tehama	3,843	0.5%	117	0.6%	11	1.0%
Trinity	1,024	0.1%	21	0.1%	1	0.1%
Tulare	12,920	1.6%	337	1.7%	19	1.7%
Tuolumne	3,109	0.4%	90	0.5%	7	0.6%
Ventura	24,577	3.1%	663	3.3%	44	3.9%
Yolo	3,922	0.5%	112	0.6%	8	0.7%
Yuba	3,202	0.4%	89	0.4%	7	0.6%
Out of State	4,016	0.5%	39	0.2%	--	--
Total	795,380	100.0%	19,810	100.0%	1,127	100.0%

^a We did not contact registered owners in Alpine or Sierra counties nor out of state registrations.

^b Percentages may not sum to 100 percent due to rounding.

Table 3: Distribution of Study Population, Sample, and Survey Respondents by Body Type Models^a

MODEL	Study Population		Sample		Survey Respondents	
	N	%	N	%	N	%
3 Wheel Vehicle	1,837	0.2%	53	0.3%	3	0.3%
4 Wheel Vehicle	36,880	4.6%	946	4.8%	69	6.1%
All Other Motorcycles	55,597	7.0%	1,453	7.3%	92	8.2%
All Terrain Vehicle	364,873	45.9%	8,968	45.3%	537	47.6%
Amphibian	153	0.0%	2	0.0%	1	0.1%
Dirt	79,892	10.0%	1,974	10.0%	118	10.5%
Dune/Sand Buggy	3,223	0.4%	69	0.3%	9	0.8%
Enduro	19,128	2.4%	447	2.3%	25	2.2%
Golf Cart	425	0.1%	13	0.1%	--	--
Minibike	9,367	1.2%	232	1.2%	16	1.4%
Minicycle	475	0.1%	13	0.1%	--	--
Mini Road/ Trail	279	0.0%	9	0.0%	--	--
Moped	31	0.0%	--	--	--	--
Motor Scooter	412	0.1%	9	0.0%	--	--
Moto Cross	140,185	17.6%	3,435	17.3%	146	13.0%
New OHV	1	0.0%	--	--	--	--
Racer	222	0.0%	3	0.0%	--	--
Road/ Street	1,566	0.2%	48	0.2%	--	--
Road/Trail	5,797	0.7%	161	0.8%	11	1.0%
Trail	75,037	9.4%	1,975	10.0%	100	8.9%
Total	795,380	100.0%	19,810	100.0%	1,127	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Section 2: Summary of Survey Responses

General Information on OHV's

The majority (60%) of the 1st OHV's were newer models, between 2001 and 2007. On the 2nd OHV, six percent had models 1979 or older (Table 4).

Table 4: Model Year of OHV's in Ranges of 5 Years^a

	Year of OHV	Number of cases	Percentage
1st OHV ^b	1980 to 1985	96	8.5%
	1986 to 1990	139	12.3%
	1991 to 1995	71	6.3%
	1996 to 2000	142	12.6%
	2001 to 2005	566	50.2%
	2006 to 2007	113	10.0%
	Total	1,127	100.0%
2nd OHV ^c	1979 or older	21	5.7%
	1980 to 1985	16	4.4%
	1986 to 1990	22	6.0%
	1991 to 1995	14	3.8%
	1996 to 2000	44	12.0%
	2001 to 2005	151	41.1%
	2006 to 2009	99	27.0%
		Total	367

^a Percentages may not sum to 100 percent due to rounding.

^b Year provided by the DMV data.

^c Year provided by respondent.

More than 80 percent of registered OHV owners have a green registration sticker while only seven percent have a red registration sticker (Table 5).

Table 5: "What Type of Registration Does Your OHV Have?"^a

	Type of registration	Number of cases	Percentage
1 st OHV	Green Sticker	943	83.7%
	Red Sticker	73	6.5%
	No Sticker	15	1.3%
	Don't know	96	8.5%
	Total	1,127	100.0%
2 nd OHV	Green sticker	291	79.3%
	Red sticker	39	10.6%
	No sticker	15	4.1%
	Don't know/refused	22	6.0%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Four-out-of-five respondents (80%) indicated their OHV had a carburetor while only eight percent said their OHV was fuel injected (Table 6).

Table 6: “Does the Engine Use a Carburetor or Fuel Injection?”^a

		Number of cases	Percentage
1 st OHV	Carburetor	899	79.8%
	Fuel injection	91	8.1%
	Don't know/refused	137	12.1%
	Total	1,127	100.0%
2 nd OHV	Carburetor	299	81.5%
	Fuel injection	43	11.7%
	Don't know/refused	25	6.8%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Nearly all (99%) the respondents said their OHV used gasoline. Less than one percent indicated their OHV used diesel fuel (Table 7).

Table 7: “What Type of Fuel Do You Use in Your OHV?”^a

		Number of cases	Percentage
1 st OHV	Gasoline	1,118	99.2%
	Diesel	3	0.3%
	Don't know	6	0.5%
	Total	1,127	100.0%
2 nd OHV	Gasoline	361	98.4%
	Diesel	1	0.3%
	Don't know/ refused	5	1.4%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Two-thirds (66%) of respondents reported their OHV was 4 stroke and one-quarter (25%) said it was 2 stroke. Ten percent said they did not know if their OHV was 2 or 4 stroke (Table 8).

Table 8: “Is It a 2 Stroke or a 4 Stroke?”^a

		Number of cases	Percentage
1 st OHV	2 stroke	285	25.3%
	4 stroke	740	65.7%
	Don't know/ refused	102	9.1%
	Total	1,127	100.0%
2 nd OHV	2 stroke	69	19.1%
	4 stroke	260	72.0%
	Don't know	32	8.9%
	Total	361 ^b	100.0%

^a Percentages may not sum to 100 percent due to rounding.

^b Six missing responses are from respondents who were unclear on what type of fuel is used in the OHV and one respondent who used diesel. (N= 361)

OHVs with newer model years (2003 to 2006) are more likely to be 4 stroke than 2 stroke.

Table 8a: OHV Model Year by 2 or 4 stroke for 1st OHV^a

Model Year of 1 st OHV	2 stroke		4 stroke		DK/refused	
	N	%	N	%	N	%
1980	2	0.7%	4	0.5%	--	--
1981	4	1.4%	4	0.5%	--	--
1982	5	1.8%	5	0.7%	--	--
1983	8	2.8%	10	1.4%	1	1.0%
1984	6	2.1%	11	1.5%	4	3.9%
1985	9	3.2%	22	3.0%	1	1.0%
1986	27	9.5%	21	2.8%	3	2.9%
1987	11	3.9%	20	2.7%	1	1.0%
1988	9	3.2%	10	1.4%	3	2.9%
1989	7	2.5%	8	1.1%	1	1.0%
1990	9	3.2%	9	1.2%	--	--
1991	12	4.2%	6	0.8%	--	--
1992	2	0.7%	2	0.3%	1	1.0%
1993	7	2.5%	5	0.7%	--	--
1994	4	1.4%	8	1.1%	2	2.0%
1995	6	2.1%	13	1.8%	3	2.9%
1996	8	2.8%	12	1.6%	3	2.9%
1997	10	3.5%	11	1.5%	1	1.0%
1998	4	1.4%	6	0.8%	5	4.9%
1999	8	2.8%	18	2.4%	4	3.9%
2000	15	5.3%	31	4.2%	6	5.9%
2001	20	7.0%	38	5.1%	4	3.9%
2002	24	8.4%	62	8.4%	10	9.8%
2003	22	7.7%	100	13.5%	10	9.8%
2004	17	6.0%	98	13.2%	10	9.8%
2005	19	6.7%	118	15.9%	14	13.7%
2006	10	3.5%	87	11.8%	14	13.7%
2007	--	--	1	0.1%	1	1.0%
Total	285	100.0%	740	100.0%	102	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Table 8b: OHV Model Year by 2 or 4 stroke for 2nd OHV^{ab}

Model year of 2 nd OHV	2 stroke		4 stroke		DK/ refused	
	N	%	N	%	N	%
1980	0	0.0%	1	0.4%	0	0.0%
1981	1	1.4%	0	0.0%	0	0.0%
1983	1	1.4%	2	0.8%	0	0.0%
1984	2	2.9%	5	2.0%	1	3.3%
1985	2	2.9%	1	0.4%	0	0.0%
1986	3	4.3%	2	0.8%	1	3.3%
1987	1	1.4%	2	0.8%	0	0.0%
1988	3	4.3%	1	0.4%	0	0.0%
1989	3	4.3%	3	1.2%	0	0.0%
1990	0	0.0%	3	1.2%	0	0.0%
1991	0	0.0%	3	1.2%	0	0.0%
1992	2	2.9%	1	0.4%	1	3.3%
1993	1	1.4%	1	0.4%	0	0.0%
1994	1	1.4%	0	0.0%	0	0.0%
1995	0	0.0%	2	0.8%	2	6.7%
1996	0	0.0%	2	0.8%	1	3.3%
1997	5	7.2%	5	2.0%	0	0.0%
1998	1	1.4%	5	2.0%	0	0.0%
1999	2	2.9%	4	1.6%	0	0.0%
2000	5	7.2%	12	4.7%	2	6.7%
2001	3	4.3%	7	2.7%	2	6.7%
2002	5	7.2%	20	7.8%	2	6.7%
2003	5	7.2%	28	11.0%	2	6.7%
2004	8	11.6%	35	13.7%	3	10.0%
2005	0	0.0%	25	9.8%	2	6.7%
2006	4	5.8%	36	14.1%	6	20.0%
2007	2	2.9%	25	9.8%	1	3.3%
2008	4	5.8%	15	5.9%	2	6.7%
2009	0	0.0%	3	1.2%	1	3.3%
Don't know year/refused	5	7.2%	6	2.4%	1	3.3%
Total	69	100.0%	255	100.0%	30	100.0%

^a Percentages may not sum to 100 percent due to rounding.

^b Seven respondents had an OHV with model years 1979 and older. They were excluded from this table.

The fuel tank size varied from less than one gallon to more than seven gallons. The most common size of fuel tanks was between 2.0 and 2.9 gallons (36%). A significant percentage (19%) of respondents said they did not know the size of their OHV's fuel tank (Table 9).

Table 9: "What Is the Size of Your Fuel Tank?"^a

	Size of fuel tank in gallons	Number of cases	Percentage
1 st OHV	Under 1	10	0.9%
	1.0 to 1.9	154	13.7%
	2.0 to 2.9	410	36.4%
	3.0 to 3.9	197	17.5%
	4.0 to 4.9	46	4.1%
	5.0 to 5.9	59	5.2%
	6.0 to 6.9	13	1.2%
	Over 7	20	1.8%
	Don't know tank size	216	19.2%
	Total	1,125 ^b	100.0%
2 nd OHV	Under 1	2	0.5%
	1.0 to 1.9	55	15.0%
	2.0 to 2.9	155	42.2%
	3.0 to 3.9	64	17.4%
	4.0 to 4.9	14	3.8%
	5.0 to 5.9	17	4.6%
	6.0 to 6.9	1	0.3%
	Over 7	9	2.5%
	Don't know tank size	50	13.6%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

^b The missing cases are two respondents with tanks sizes of 250 and 660 gallons . This could be due to either interviewer error or the respondents misunderstood the question. These tank sizes skewed the distribution therefore were taken out of the total.

Usage Information on OHV's: Average Usage by Day, Hours, Miles, and Number of Times OHV is Tipped

Due to the variance of answers given to the average number of days, miles, and hours answers were collapsed into ranges.

Usage in the past year:

Twenty percent of respondents said they have not used their OHV in the last 12 months. Nearly one-third (30%) used their OHV an average of one to five days in the last 12 months. Nearly ten percent of registered owners used their OHV 50 or more days in the last 12 months (Table 10).

Table 10: “On Average How Many Days Did You Operate Your OHV in the Last 12 Months?”^a

	Average number of days	Number of cases	Percentage
1 st OHV	0	227	20.1%
	1 to 5	342	30.3%
	6 to 10	172	15.3%
	11 to 15	91	8.1%
	16 to 20	59	5.2%
	21 to 30	74	6.6%
	31 to 50	47	4.2%
	51 to 100	41	3.6%
	101 or more	57	5.1%
	Don't know	17	1.5%
	Total	1,127	100.0%
2 nd OHV	0	61	16.6%
	1 to 5	107	29.2%
	6 to 10	65	17.7%
	11 to 15	35	9.5%
	16 to 20	25	6.8%
	21 to 30	22	6.0%
	31 to 50	17	4.6%
	51 to 100	15	4.1%
	101 or more	12	3.3%
	Don't know	8	2.2%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Average daily use

Hours:

The majority (60%) of respondents indicated they typically used their OHV up to 3 hours on a typical day of use. One-in-five (20%) registered OHV owners said they use their OHV for more than 4 hours on a typical day of use (Table 11).

Table 11: “On a Typical Day of Use, Approximately How Many Hours Did You Operate Your OHV?”^a

	Hours	Number of cases	Percentage
1 st OHV	Less than 1	62	5.5%
	1	203	18.0%
	2	233	20.7%
	3	175	15.5%
	4	193	17.1%
	5 to 6	162	14.4%
	7 to 10	49	4.3%
	11 to 20	15	1.3%
	21 or more	1	0.1%
	Don't know	34	3.0%
	Total	1,127	100.0%
2 nd OHV	Less than 1	21	5.7%
	1	51	13.9%
	2	69	18.8%
	3	67	18.3%
	4	72	19.6%
	5 to 10	76	20.7%
	11 to 20	3	0.8%
	21 or more	1	0.3%
	Don't know	7	1.9%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Miles:

One-third (34%) of registered owner said they rode their OHV up to ten miles on a typical day of use. Another one-third (33%) indicated they rode their OHV between 11 and 50 miles on a typical day of use. One-quarter (25%) of respondents maintained they did not know how many miles they rode their OHV on a typical day of use (Table 12).

Table 12: “On a Typical Day of Use, How Many Miles Do You Ride?”^a

	Miles	Number of cases	Percentage
1 st OHV	Under 2	169	15.0%
	3 to 5	119	10.6%
	6 to 10	97	8.6%
	11 to 20	154	13.7%
	21 to 30	96	8.5%
	31 to 50	126	11.2%
	51 to 100	70	6.2%
	101 or more	18	1.6%
	Don't know	278	24.7%
	Total	1,127	100.0%
2 nd OHV	Under 2	41	11.2%
	3 to 5	34	9.3%
	6 to 10	32	8.7%
	11 to 20	62	16.9%
	21 to 30	36	9.8%
	31 to 50	49	13.4%
	51 to 100	24	6.5%
	101 or more	8	2.2%
	Don't know or refused	81	22.1%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Tips:

Three-out-of-five (80%) of respondents indicated they did not tip their OHV while riding or for maintenance. Nineteen percent said they tipped their OHV at least once per day either while riding or for maintenance (Table 14).

Table 14: “How Many Times Per Day of Riding Do You Tip Your OHV on Its Side or Top, Either While Riding or Laying It on Its Side for Maintenance?”^a

	Number of times tipped	Number of cases	Percentage
1 st OHV	0	892	79.1%
	1	142	12.6%
	2	40	3.5%
	3 or more	27	2.4%
	Don't know	26	2.3%
	Total	1,127	100.0%
2 nd OHV	0	294	80.1%
	1	38	10.4%
	2	18	4.9%
	3 or more	10	2.7%
	Don't know	7	1.9%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Table 13: Means and Standard Deviations of Number of Days, Hours, and Miles the OHV is Used

		N	Mean	Standard Deviation	Min	Max
1st OHV	Hours	1,101	3.18	2.5	0	23
	Days	1,110	24.71	62.1	0	365
	Miles	848	24.88	31.79	0	250
2nd OHV	Hours	360	3.31	2.39	0	24
	Days	359	21.28	53.57	0	365
	Miles	285	28.18	40.58	0	500

Usage Information on OHV's: Percentage Estimates of Usage during the Week and in Different Seasons

Weekly usage:

The majority (54%) of registered owners said they used their OHV on the weekends only and two-in-five (40%) respondents indicated they used their OHV both on the weekends and weekdays (Table 15).

Table 15: "When Do You Ride Your OHV?"^a

		Number of cases	Percentage
1 st OHV	Weekends only (SAT-SUN)	606	53.8%
	Weekdays only (MON-FRI)	50	4.4%
	Both weekend and weekdays (SUN-SAT)	448	39.8%
	Don't know/ refused	23	2.0%
	Total	1,127	100.0%
2 nd OHV	Weekends only (SAT-SUN)	201	54.8%
	Weekdays only (MON-FRI)	19	5.2%
	Both weekend and weekdays (SUN-SAT)	138	37.6%
	Don't know/ refused	9	2.5%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Table 15a: Mean Percent of Time OHV Is Used on Weekends and Weekdays

		N	Means	Standard deviation	Min	Max
1 st OHV	Weekends	1,044	81.25	24.44	5	100
	Weekdays	488	50.25	22.78	5	100
2 nd OHV	Weekends	337	84.07	22.24	10	100
	Weekdays	155	46.90	25.58	5	100

Weekend usage was computed by combining respondents who use their OHV on the weekends only with respondents who use it both weekends and weekdays. Of those, the majority (58%) use their OHV *only* on the weekends (Table 16).

Table 16: Comparison of the Percentage of Time OHV Is Used During the Week^a

Percent of time OHV is used		Weekend usage		Weekday usage	
		Number of cases	Percentage	Number of cases	Percentage
1 st OHV	1 to 10	14	1.3%	32	6.4%
	11 to 20	13	1.2%	37	7.4%
	21 to 30	16	1.5%	52	10.4%
	31 to 40	5	0.5%	9	1.8%
	41 to 50	281	26.7%	281	56.4%
	51 to 60	8	0.8%	4	0.8%
	61 to 70	15	1.4%	7	1.4%
	71 to 80	71	6.7%	21	4.2%
	81 to 90	24	2.3%	4	0.8%
	91 to 99	1	0.1%	1	0.2%
	100	606	57.5%	50	10.0%
Total		1,054	100.0%	498	100.0%
2 nd OHV	1 to 10	3	0.9%	14	8.9%
	21 to 30	5	1.5%	17	10.8%
	31 to 40	4	1.2%	24	15.3%
	41 to 50	68	20.1%	5	3.2%
	51 to 60	5	1.5%	68	43.3%
	61 to 70	5	1.5%	3	1.9%
	71 to 80	34	10.0%	3	1.9%
	81 to 90	13	3.8%	3	1.9%
	91 to 99	1	0.3%	1	0.6%
	100	201	59.3%	19	12.1%
Total		339	100.0%	157	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Usage by season:

Winter (66%) was the most common season respondents reported using their OHV, while summer (56%) was the least common response (Table 17).

Table 17: “In Which Seasons Do You Use Your OHV?”^a

Seasons		Number of cases	Percentage
1 st OHV	Winter	742	65.8%
	Spring	656	58.2%
	Summer	628	55.7%
	Fall	643	57.1%
	Don't know/ refused	19	1.7%
Total		2,688	b
2 nd OHV	Winter	251	68.4%
	Spring	222	60.5%
	Summer	192	52.3%
	Fall	223	60.8%
	Don't know/ refused	8	2.2%
		896	b

^a Percentage were figured using the total number of respondents not the number of answers given. (N=1,127)

^b Percentage equal more than 100 percent because each respondent could choose more than one season

Table 17a: Mean Percent of Time OHV Is Used by Season

		N	Mean	Standard Deviation	Min	Max
1st OHV	Winter	750	51.02	33.45	5	100
	Spring	656	34.90	20.18	3	100
	Summer	627	42.76	28.75	3	100
	Fall	641	35.30	22.23	4	100
2nd OHV	Winter	251	51.83	32.83	5	100
	Spring	222	35.17	20.46	10	100
	Summer	192	40.31	27.82	5	100
	Fall	223	32.93	17.99	5	100

More than one-quarter (28%) of registered owners *only* used their OHV during the winter (Table 18).

Table 18: “Could You Please Estimate the Percentage of Time You Use Your OHV in Each of the Following Seasons?”

		Winter		Spring		Summer		Fall	
Percentage		N	%	N	%	N	%	N	%
1 st OHV ^a	1 to 10	29	3.9%	24	3.7%	23	3.7%	34	5.3%
	11 to 20	31	4.1%	42	6.4%	22	3.5%	48	7.5%
	21 to 30	324	43.2%	363	55.3%	334	53.3%	344	53.7%
	31 to 40	42	5.6%	57	8.7%	37	5.9%	54	8.4%
	41 to 50	76	10.1%	118	18.0%	77	12.3%	98	15.3%
	51 to 60	6	0.8%	3	0.5%	8	1.3%	7	1.1%
	61 to 70	3	0.4%	4	0.6%	10	1.6%	2	0.3%
	71 to 80	24	3.2%	7	1.1%	9	1.4%	3	0.5%
	81 to 90	3	0.4%	--	--	2	0.3%	1	0.2%
	91 to 99	--	--	1	0.2%	--	--	--	--
	100	212	28.3%	37	5.6%	105	16.7%	50	7.8%
Total		750	100.0%	656	100.0%	627	100.0%	641	100.0%
2 nd OHV ^b	1 to 10	9	3.6%	10	4.5%	13	6.8%	16	7.2%
	11 to 20	7	2.8%	14	6.3%	5	2.6%	19	8.5%
	21 to 30	102	40.6%	121	54.5%	105	54.7%	113	50.7%
	31 to 40	18	7.2%	19	8.6%	10	5.2%	18	8.1%
	41 to 50	31	12.4%	38	17.1%	23	12.0%	43	19.3%
	51 to 60	5	2.0%	--	--	2	1.0%	4	1.8%
	61 to 70	1	0.4%	3	1.4%	4	2.1%	1	0.4%
	71 to 80	6	2.4%	4	1.8%	2	1.0%	1	0.4%
	81 to 90	2	0.8%	2	0.9%	--	--	1	0.4%
	91 to 99	--	--	--	--	--	--	--	--
	100	70	27.9%	11	5.0%	28	14.6%	7	3.1%
Total		251	100.0%	222	100.0%	192	100.0%	223	100.0%

^a Nineteen respondents did not know in which seasons they used their OHV or the percentage of time used in each season. Two respondents said they used their OHV in all four seasons but did not know the percentage of time used in each season.

^b Eight respondents did not know in which seasons they used their OHV or the percentage of time used in each season.

Usage Information on OHV's: Percentage Estimates by County and Track

Usage by county:

Two-out-of-five respondents (42%) used their OHV only in the county in which the OHV is registered. One-quarter (25%) used their OHV outside their registered county only (Table 19).

Table 19: "Where do you Typically Operate your OHV?"^a

		Number of cases	Percentage
1 st OHV	Inside registered county only	468	41.5%
	Outside registered county only	284	25.2%
	Both inside and outside registered county	358	31.8%
	Unsure of county in which OHV is typically operated	5	0.4%
	Don't know/ refused	12	1.1%
	Total	1,127	100.0%
2 nd OHV	Inside registered county only	136	37.1%
	Outside registered county only	101	27.5%
	Both inside and outside registered county	126	34.3%
	Unsure of county in which OHV is typically operated	2	0.5%
	Don't know/ refused	2	0.5%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

More than four-out-of-five (84%) owners of registered OHV *only* used their OHV in one or two counties (Table 20).

Table 20: “In How Many Counties Do You Typically Use Your OHV?”^a

	Counties	Number of cases	Percentage
1 st OHV	1	692	61.7%
	2	255	22.7%
	3	97	8.6%
	4	42	3.7%
	5	14	1.2%
	6	4	0.4%
	8	1	0.1%
	10	2	0.2%
	50	1	0.1%
	Don't know county/ refused	14	1.3%
Total		1,122	100.0%
2 nd OHV	1	200	54.5%
	2	83	22.6%
	3	41	11.2%
	4	17	4.6%
	5	8	2.2%
	6	1	0.3%
	8	1	0.3%
	15	1	0.3%
	Don't know county	15	4.1%
	Total		367

^a Percentages may not sum to 100 percent due to rounding.

Table 21 illustrate the responses to the top five counties where the OHV is used with San Bernardino (15%) and Los Angeles (10%) being the most common answers given. Thirteen percent of registered owners said they did not know in which counties they use their OHV.

Table 21: “Please Tell Me In Which County You Use Your OHV?”^{ab}

County	1st OHV		2nd OHV	
	N	%	N	%
Alameda	33	2.9%	12	3.3%
Amador	11	1.0%	3	0.8%
Butte	39	3.5%	12	3.3%
Calaveras	10	0.9%	4	1.1%
Colusa	15	1.3%	5	1.4%
Contra Costa	16	1.4%	6	1.6%
Del Norte	2	0.2%	--	--
El Dorado	23	2.0%	8	2.2%
Fresno	35	3.1%	14	3.8%
Glenn	4	0.4%	1	0.3%
Humboldt	18	1.6%	5	1.4%
Imperial	103	9.2%	43	11.7%
Inyo	10	0.9%	1	0.3%
Kern	96	8.6%	36	9.8%
Kings	4	0.4%	2	0.5%
Lake	16	1.4%	7	1.9%
Lassen	10	0.9%	5	1.4%
Los Angeles	112	10.0%	38	10.4%
Madera	20	1.8%	6	1.6%
Marin	4	0.4%	1	0.3%
Mariposa	7	0.6%	4	1.1%
Mendocino	25	2.2%	9	2.5%
Merced	10	0.9%	3	0.8%
Modoc	3	0.3%	2	0.5%
Mono	6	0.5%	2	0.5%
Monterey	18	1.6%	6	1.6%
Napa	3	0.3%	1	0.3%
Nevada	32	2.9%	10	2.7%
Orange	14	1.2%	3	0.8%
Placer	40	3.6%	11	3.0%
Plumas	11	1.0%	3	0.8%
Riverside	96	8.6%	30	8.2%
Sacramento	36	3.2%	12	3.3%
San Benito	13	1.2%	6	1.6%
San Bernardino	168	15.0%	58	15.8%
San Diego	74	6.6%	30	8.2%
San Joaquin	26	2.3%	11	3.0%
San Luis Obispo	61	5.4%	26	7.1%
San Mateo	7	.06%	2	0.5%
Santa Barbara	20	1.8%	8	2.2%
Santa Clara	22	2.0%	9	2.5%
Santa Cruz	10	0.9%	2	0.5%
Shasta	41	3.7%	10	2.7%
Sierra	5	0.4%	3	0.8%
Siskiyou	4	0.4%	2	0.5%
Solano	8	0.7%	2	0.5%
Sonoma	26	2.3%	10	2.7%
Stanislaus	39	3.5%	8	2.2%
Sutter	14	1.2%	7	1.9%
Tehama	22	2.0%	7	1.9%
Trinity	10	0.9%	4	1.1%
Tulare	20	1.8%	7	1.9%
Tuolumne	16	1.4%	3	0.8%
Ventura	29	2.6%	10	2.7%
Yolo	8	0.7%	3	0.8%
Yuba	13	1.2%	7	1.9%
Don't Know	140	12.5%	54	14.7%
Out of State	75	6.7%	21	5.7%
Total	1,753	c	615	c

^a Percentage was figured using the total N size of respondents. (1st OHV: N= 1,122 and 2nd OHV N=367) Five respondents refused to answer this question.

^b Answers were collapsed into one variable for respondents usage in top five counties.

^c Percentages equal more than 100 percent because each respondent could choose more than one county.

Table 22: Mean Percent of Time OHV Is Used by County^a

County	1st OHV					2nd OHV				
	N	Mean	SD	Min	Max	N	Mean	SD	Min	Max
Alameda	28	56.57	36.03	6	100	12	54.92	32.59	6	100
Amador	11	48.09	36.09	1	100	3	38.00	39.74	1	80
Butte	38	71.53	37.49	5	100	11	55.45	44.30	5	100
Calaveras	10	60.50	43.11	10	100	4	56.25	50.56	10	100
Colusa	13	68.92	37.50	1	100	5	45.20	37.12	1	100
Contra Costa	16	63.94	37.80	10	100	6	72.17	40.10	10	100
Del Norte	2	42.50	24.75	25	60	--	--	--	--	--
El Dorado	23	57.61	36.17	7	100	8	45.25	37.40	7	100
Fresno	34	85.50	25.05	7	100	14	85.50	28.83	7	100
Glenn	3	51.67	47.52	5	100	--	--	--	--	--
Humboldt	18	91.56	23.54	10	100	5	97.60	4.34	90	100
Imperial	103	72.23	31.00	10	100	43	75.23	30.49	20	100
Inyo	10	71.80	36.53	8	100	1	20.00	--	20	20
Kern	94	65.96	33.52	2	100	36	68.89	32.16	5	100
Kings	4	76.25	44.23	10	100	2	97.50	3.54	95	100
Lake	16	50.50	28.06	10	100	7	29.71	15.46	10	50
Lassen	10	65.40	31.24	30	100	5	70.00	41.23	20	100
Los Angeles	104	68.26	33.36	3	100	36	59.47	34.95	3	100
Madera	19	58.58	33.70	5	100	6	43.33	28.58	5	80
Marin	4	77.50	45.00	10	100	1	100.00	--	100	100
Mariposa	7	53.57	29.26	10	100	4	48.75	37.94	10	100
Mendocino	25	56.76	32.24	10	100	9	55.44	36.43	15	100
Merced	9	62.78	40.94	5	100	3	26.67	22.55	5	50
Modoc	3	68.33	54.85	5	100	2	60.00	56.57	20	100
Mono	6	53.33	28.75	10	100	2	55.00	7.07	50	60
Monterey	18	79.44	29.55	25	100	6	66.67	37.64	25	100
Napa	3	83.33	28.87	50	100	1	50.00	--	50	50
Nevada	32	64.00	38.37	10	100	10	60.00	32.30	10	100
Orange	13	71.92	33.51	10	100	3	83.33	28.87	50	100
Placer	39	59.13	37.78	5	100	11	54.55	42.86	10	100
Plumas	11	66.27	37.84	10	100	3	73.33	46.19	20	100
Riverside	93	59.62	35.58	5	100	28	51.68	35.97	5	100
Sacramento	35	54.46	36.11	5	100	12	55.67	37.02	5	100
San Benito	13	69.23	40.10	5	100	6	63.33	40.95	5	100
San Bernardino	164	64.68	33.83	2	100	57	62.28	33.38	3	100
San Diego	72	66.78	33.34	4	100	30	64.40	36.44	4	100
San Joaquin	24	55.75	37.63	10	100	10	62.00	38.24	15	100
San Luis Obispo	60	59.80	35.09	5	100	25	53.28	39.16	5	100
San Mateo	7	72.14	35.57	25	100	2	62.50	53.03	25	100
Santa Barbara	20	64.50	35.31	10	100	8	55.63	37.84	20	100
Santa Clara	21	47.52	31.93	5	100	9	38.11	30.35	5	100
Santa Cruz	9	64.89	34.48	25	100	2	29.50	6.36	25	34
Shasta	36	74.00	34.73	1	100	9	62.33	44.49	1	100
Sierra	5	27.00	13.96	15	50	3	21.67	7.64	15	30
Siskiyou	4	75.00	43.59	10	100	2	95.00	7.07	90	100
Solano	8	58.38	36.71	15	100	2	57.50	60.10	15	100
Sonoma	25	73.64	35.67	10	100	9	40.89	34.22	10	100
Stanislaus	37	63.65	33.37	10	100	7	76.43	34.49	20	100
Sutter	14	72.86	36.31	10	100	6	75.83	31.69	25	100
Tehama	22	55.77	38.96	5	100	7	57.86	36.50	20	100
Trinity	10	38.40	30.66	5	100	4	19.75	11.84	5	34
Tulare	20	66.90	39.94	5	100	7	53.57	35.79	20	100
Tuolumne	16	77.81	27.87	20	100	3	91.67	14.43	75	100
Ventura	29	69.59	35.60	5	100	10	56.30	35.42	5	100
Yolo	8	66.13	36.78	25	100	3	76.33	40.13	30	100
Yuba	13	43.85	30.01	5	100	7	40.00	36.17	5	100
Don't Know	72	39.60	27.54	5	100	34	35.71	27.06	5	100
Out of State	73	67.44	37.09	1	100	21	64.43	38.40	5	100
Total	1,636 ^b	--	--	--	--	582 ^b	--	--	--	--

^a Caution should be taken in interpreting results due to the small N sizes in each county.

^b Missing cases are respondents that do not know the percentage of time the OHV is used in different counties.

Nearly one-half (45%) of respondents indicated they only used their OHV on one track, while 12 percent said they did not know the tracks where their OHV is used (Table 23).

Table 23: “On How Many Different Parks, Places or Tracks Do You Operate Your OHV?”^a

	Parks, Places, Tracks	Number of cases	Percentage	
1 st OHV	1	507	45.4%	
	2	212	19.0%	
	3	147	13.2%	
	4	49	4.4%	
	5	36	3.2%	
	6	15	1.3%	
	7	2	0.2%	
	8	5	0.4%	
	10	3	0.3%	
	12	1	0.1%	
	20	2	0.2%	
	23	1	0.1%	
	30	1	0.1%	
	200	1	0.1%	
		Don't know track/ refused	135	12.1%
	Total	1,127	100.0%	
2 nd OHV	1	146	39.8%	
	2	70	19.1%	
	3	64	17.4%	
	4	27	7.4%	
	5	16	4.4%	
	6	1	0.3%	
	8	3	0.8%	
	10	3	0.8%	
	12	1	0.3%	
	15	1	0.3%	
	20	1	0.3%	
	23	1	0.3%	
	120	1	0.3%	
		Don't know/ Refused	32	8.7%
		Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Table 24 shows the county, city and track names when applicable, however 44 percent of respondents gave an unspecified answer such as private property. Common track names given were: Glannis, Superstition, Imperial Sand Dunes, Buttercup, Plaster City, Gordon's Well, all within Imperial County (13%). The second most common answers given were Ocotillo Wells (8%) in San Diego County and Pismo Beach (7%) in San Luis Obispo County.

Table 24: Parks, Places, or Tracks Where Your OHV is Used^{ab}

		1 st OHV		2ndOHV	
County	Track, City	N	%	N	%
Alameda	Carnegie, Tracy	43	3.8%	20	5.4%
	ClubMoto, Livermore	5	0.4%	2	0.5%
Alpine	Kirkwood	1	0.1%	--	--
Amador	Other	4	0.4%	2	0.5%
Butte	Clay Pitts, Oroville	1	0.1%	1	0.3%
	Butte Meadows	3	0.3%	1	0.3%
	Other	7	0.6%	3	0.8%
Calaveras	Private	1	0.1%	1	0.3%
Colusa	Stonyford/ Fouts Springs/Wolf Creek, Stonyford	31	2.8%	16	4.4%
Contra Costa	Other	5	0.4%	3	0.8%
Del Norte	Klamath National Forest, Yreka	12	1.1%	6	1.6%
El Dorado	Pipi, El Dorado National Forest	4	0.4%	2	0.5%
	Georgetown, Georgetown	5	0.4%	2	0.5%
	Other	13	1.2%	5	1.4%
Fresno	Other	7	0.6%	3	0.8%
Glenn	Black Butte Lake, Orland	1	0.1%	--	--
Humboldt	Samoa Dunes, Eureka,	2	0.2%	2	0.5%
	Other	6	0.5%	3	0.8%
Imperial	Glannis/ Superstition/ Imperial Sand Dunes/Buttercup/ Plaster City/ Gordon's Well, El Centro	144	12.8%	56	15.3%
Inyo	Other	5	0.4%	2	0.5%
Kern	Dove Springs/Red Rock/ Jawbone/Cal City MX Park, California City	59	5.2%	28	7.6%
	Ballinger Canyon OHV Area/ Honolulu Hills, Bakersfield	10	0.9%	5	0.5%
	Other/ Mojave Desert	40	3.5%	18	4.9%
Kings	Hanford Fairgrounds, Hanford	1	0.1%	1	0.3%
Lake	Penny Pines/Cow Mountain/Upper Lake, Upper Lake	9	0.8%	3	0.8%
	Other	8	0.7%	5	1.4%
Lassen	Lassen Park	3	0.3%	1	0.3%
Los Angeles	Hungry Valley SVRA/ I-5 MIX, Gorman	66	5.9 %	20	5.4%
	Other	15	1.3%	7	1.9%
Madera	Sierra National Forest	11	1.0%	4	1.1%
	Madera Fairgrounds, Madera	2	0.2%	1	0.5%
	Miami Trails/Miami Creek OHV, Fish Cam	6	0.5%	4	1.1%
Marin	Other	4	0.4%	2	0.5%
Mariposa	Other	5	0.4%	4	1.1%
Mendocino	South Cow Mountain, Ukiah	3	0.3%	4	1.1%
	Park	2	0.2%	--	--
	Other	11	1.0%	4	1.1%

Table 24 continued: Parks, Places, or Tracks Where Your OHV is Used

County	Track, City	1 st OHV		2ndOHV	
		N	%	N	%
Merced	Other	7	0.6%	3	0.8%
Monterey	Hollister Hills, Hollister	66	5.9%	25	6.8%
Modoc	Other	1	0.1%	--	--
Napa	Spring Mountain, St. Helena	1	0.1%	--	--
Nevada	Greenhorn, Grass Valley	3	0.3%	1	0.3%
	Prosser Hill/Prosser Pits	3	0.3%	--	--
	Coyote/Nevada City, Nevada City	5	0.4%	2	0.5%
	Other	7	0.6%	2	0.5%
	Foresthill OHV, Forest Hill	13	1.2%	3	0.9%
Placer	Mammoth Bar, Auburn	15	1.3%	1	0.3%
	Other	12	1.1%	5	1.4%
Plumas	Chester	1	0.1%	1	0.3%
Riverside	Lake Elsinore Motorcross Park, Lake Elsinore	14	1.2%	6	1.6%
	Perris/Starwest, Perris	16	1.4%	7	1.9%
	Milestone Ranch MX Park, Riverside,	3	0.3%	2	0.5%
	Other	8	0.7%	4	1.1%
Sacramento	Prairie City SVRA, Rancho Cordova	34	3.0%	9	2.5%
	Other	5	0.4%	2	0.5%
San Benito	Other	3	0.3%	2	0.5%
San Bernardino	El Mirage Dry Lake/Racetown 395, Adelanto	34	3.0%	17	4.6%
	Dumont Dunes, Baker	22	2.0%	11	3.0%
	Johnson Valley OHV/Lucerne Valley Raceway, Lucerne Valley	24	2.1%	11	3.0%
	Cleghorn/ Glen Helen, San Bernardino	9	0.8%	6	1.6%
	Stoddard Valley/ Razor, Barstow	19	1.7%	5	1.4%
	Competitive Edge, Hesperia	4	0.4%	3	0.8%
	Other	43	3.8%	18	4.9%
San Diego	Ocotillo Wells SVRA, Borrego Springs	85	7.5%	38	10.4%
	Other	9	0.8%	2	0.5%
San Francisco	San Francisco Water Company	1	0.1%	--	--
San Joaquin	Other	1	0.1%	1	0.3%
San Luis Obispo	Oceano Dunes SVRA/ Pismo Beach, Oceano	80	7.1%	35	9.5%
San Mateo	Other	2	0.2%	--	--
Santa Barbara	Zaca Mountain, Buelton	2	0.2%	--	--
	Black Mountain, Santa Maria	1	0.1%	--	--
Santa Clara	Metcalf/Metcalf Motorcycle Park, San Jose	9	0.8%	3	0.8%
	Other	2	0.2%	--	--
Shasta	Chappie-Shasta OHV/Clear Creek	9	0.8%	5	1.4%
	Other	9	0.8%	5	1.4%

Table 24 continued: Parks, Places, or Tracks Where Your OHV is Used

		1 st OHV		2ndOHV	
County	Track, City	N	%	N	%
Sierra	Sierra	1	0.1%	1	0.3%
Siskiyou	McCloud	1	0.1%	1	0.3%
	Beaver Creek	1	0.1%	--	--
Solano	Argyll MX Park, Rio Vista	2	0.2%	--	--
	Dixon	2	0.2%	--	--
Sonoma	Other	5	0.4%	3	0.8%
Stanislaus	La Grange OHV, Modesto	8	0.7%	3	0.8%
	Other	8	0.7%	1	0.3%
Trinity	Other	6	0.5%	3	0.8%
Tulare	Other	5	0.4%	--	--
Tuolumne	Other	6	0.5%	1	0.3%
Yuba	Riverfront/E-Street, Marysville	10	0.9%	4	1.1%
Out of State		67	5.9%	24	6.5%
Unspecified	Private Property	292	25.9%	80	21.8%
	Desert	38	3.4%	18	4.9%
	Forest, Hunting	46	4.1%	10	2.7%
	Dunes	6	0.5%	2	0.5%
	BLM	9	0.8%	6	1.6%
	Other	103	9.1%	48	13.1%
No Answer/Don't Know/Refused		193	17.1%	87	23.7%
		1,946	--	768	--

^a Percentage was figured using the N size of respondents. (1st OHV N=1,127 and 2nd OHV N=367)

^b Answers were collapsed into one variable for respondents usage in top 5 tracks.

Table 25: Mean Percent of Time OHV Is Used by Track^{ab}

County	Track, City	1 st OHV				2ndOHV			
		N	Mean	Min	Max	N	Mean	Min	Max
Alameda	Carnegie, Tracy	43	45.07	1	100	20	46.50	1	100
	ClubMoto, Livermore	5	38.80	10	100	2	29.50	25	34
Alpine	Kirkwood	1	100.00	100	100	--	--	--	--
Amador	Other	4	30.00	20	50	2	22.50	20	25
Butte	Clay Pitts, Oroville	1	90.00	90	90	1	90.00	90	90
	Butte Meadows	3	68.33	25	100	1	100.00	100	100
	Other	7	39.29	10	100	3	40.00	10	60
Calaveras	Private	1	100.00	100	100	1	20.00	20	20
Colusa	Stonyford/ Fouts Springs/Wolf Creek, Stonyford	31	31.06	5	100	16	25.38	10	60
Contra Costa	Other	5	27.00	15	50	3	33.33	20	50
Del Norte	Klamath National Forest, Yreka	12	56.75	20	100	6	35.50	20	80
El Dorado	Pipi, El Dorado National Forest	4	47.00	5	100	2	19.00	5	33
	Georgetown, Georgetown	4	28.75	20	50	1	20.00	20	20
	Other	13	45.00	15	100	5	31.00	20	50
Fresno	Other	7	62.14	25	100	3	70.00	50	100
Glenn	Black Butte Lake, Orland	1	50.00	50	50	--	--	--	--
Humboldt	Samoa Dunes, Eureka,	2	72.50	50	95	2	72.50	50	95
	Other	5	27.00	5	50	2	12.50	5	20
Imperial	Glannis/ Superstition/ Imperial Sand Dunes/Buttercup/ Plaster City/ Gordon's Well, El Centro	134	54.96	5	100	48	48.96	5	100
Inyo	Other	5	54.60	20	100	2	60.00	20	100
Kern	Dove Springs/Red Rock/ Jawbone/Cal City MX Park, California City	54	44.65	5	100	26	34.00	5	100
	Ballinger Canyon OHV Area/ Honolulu Hills, Bakersfield	10	51.50	10	100	5	32.00	10	100
	Other/ Mojave Desert	39	51.44	10	100	17	39.47	10	100
Kings	Hanford Fairgrounds, Hanford	1	10.00	10	10	1	10.00	10	10
Lake	Penny Pines/Cow Mountain/Upper Lake, Upper Lake	8	30.13	2	100	3	26.67	10	50
	Other	8	32.50	10	50	5	33.60	10	50
Lassen	Lassen Park	3	34.67	20	50	1	20.00	20	20
Los Angeles	Hungry Valley SVRA/ I-5 MIX, Gorman	65	50.49	5	100	20	44.00	10	90
	Other	15	45.40	6	100	7	28.57	10	75
Madera	Sierra National Forest	11	55.91	10	100	4	47.50	40	50
	Madera Fairgrounds, Madera	2	15.00	10	20	1	10.00	10	10
	Miami Trails/Miami Creek OHV, Fish Cam	6	18.33	10	40	4	17.50	10	40
Marin	Other	4	64.50	25	100	2	62.50	25	100
Mariposa	Other	5	56.60	25	100	4	62.50	25	100
Mendocino	South Cow Mountain, Ukiah	3	46.67	20	70	4	60.00	20	100
	Park	2	50.00	50	50	--	--	--	--
	Other	11	41.27	10	100	4	24.50	10	34
Merced	Other	6	27.67	3	100	3	15.33	3	33
Monterey	Hollister Hills, Hollister	66	48.11	5	100	25	47.20	5	100
Modoc	Other	1	50.00	50	50	--	--	--	--
Napa	Spring Mountain, St. Helena	1	20.00	20	20	--	--	--	--
Nevada	Greenhorn, Grass Valley	3	51.67	25	100	1	100.00	100	100

Table 25 continued: Means Percent of Time OHV Is Used by Track

County	Track, City	1 st OHV				2ndOHV			
		N	Mean	Min	Max	N	Mean	Min	Max
Nevada	Prosser Hill/Prosser Pits	3	43.33	20	80	--	--	--	--
	Coyote/Nevada City, Nevada City	5	37.60	10	100	2	15.00	10	20
	Other	7	41.86	15	100	2	66.50	33	100
	Foresthill OHV, Forest Hill	13	23.54	5	50	3	36.00	25	50
Placer	Mammoth Bar, Auburn	15	37.33	15	100	1	30.00	30	30
	Other	12	30.17	10	50	5	20.40	10	30
Plumas	Chester	1	100.00	100	100	1	100.00	100	100
Riverside	Lake Elsinore Motorcross Park, Lake Elsinore	14	35.93	5	100	6	23.83	5	50
	Perris/Starwest, Perris	15	37.07	10	100	7	23.00	10	50
	Milestone Ranch MX Park, Riverside,	3	28.33	10	50	2	30.00	10	50
	Other	8	54.25	14	100	4	47.25	14	100
Sacramento	Prairie City SVRA, Rancho Cordova	34	58.18	10	100	9	65.56	20	100
	Other	5	51.00	10	100	2	15.00	10	20
San Benito	Other	2	27.00	20	34	1	34.00	34	34
San Bernardino	El Mirage Dry Lake/Racetown 395, Adelanto	33	47.85	1	100	16	41.38	10	100
	Dumont Dunes, Baker	21	36.00	5	100	11	29.27	5	100
	Johnson Valley OHV/Lucerne Valley Raceway, Lucerne Valley	24	56.04	10	100	11	61.91	10	100
	Cleghorn/ Glen Helen, San Bernardino	9	26.00	5	85	6	15.83	5	35
	Stoddard Valley/ Rasor, Barstow	19	36.53	7	100	5	22.00	10	50
	Competitive Edge, Hesperia	4	28.75	20	50	3	21.67	20	25
	Other	39	38.95	5	100	17	29.65	10	80
San Diego	Ocotillo Wells SVRA, Borrego Springs	83	51.47	5	100	37	55.11	5	100
	Other	6	33.33	10	80	2	37.50	25	50
San Francisco	San Francisco Water Company	1	25.00	25	25	--	--	--	--
San Joaquin	Other	1	20.00	20	20	1	20.00	20	20
San Luis Obispo	Oceano Dunes SVRA/ Pismo Beach, Oceano	79	51.20	1	100	35	48.43	1	100
San Mateo	Other	2	12.50	10	15	--	--	--	--
Santa Barbara	Zaca Mountain, Buelton	2	47.50	20	75	--	--	--	--
	Black Mountain, Santa Maria	1	50.00	50	50	--	--	--	--
Santa Clara	Metcalf/Metcalf Motorcycle Park, San Jose	9	35.89	5	70	3	42.67	25	70
	Other	2	22.50	20	25	--	--	--	--
Shasta	Chappie-Shasta OHV/Clear Creek	9	40.22	10	90	5	44.00	10	90
	Other	9	30.00	10	50	5	22.00	10	50
Sierra	Sierra	1	20.00	20	20	1	20.00	20	20
Siskiyou	McCloud	1	10.00	10	10	--	--	--	--
	Beaver Creek	1	25.00	25	25	--	--	--	--
Solano	Argyll MX Park, Rio Vista	2	42.50	25	60	--	--	--	--
	Dixon	2	22.50	20	25	--	--	--	--
Sonoma	Other	5	39.20	10	100	3	21.00	10	33
Stanislaus	La Grange OHV, Modesto	8	28.75	5	75	3	31.67	10	75

Table 25 continued: Means Percent of Time OHV Is Used by Track

County	Track, City	1 st OHV				2 nd OHV			
		N	Mean	Min	Max	N	Mean	Min	Max
Stanislaus	Other	8	35.38	10	60	1	10.00	10	10
Trinity	Other	6	45.00	10	100	3	43.33	1	100
Tulare	Other	5	27.00	5	75	--	--	--	--
Tuolumne	Other	6	44.67	20	90	1	50.00	50	50
Yuba	Riverfront/E-Street, Marysville	10	40.30	10	100	4	22.00	10	33
Out of State		64	49.88	1	100	22	48.45	10	100
Unspecified	Private Property	284	85.78	5	100	76	79.99	5	100
	Desert	35	76.63	10	100	18	73.89	10	100
	Forest, Hunting	44	65.68	10	100	10	59.50	10	100
	Dunes	6	66.67	25	100	2	62.50	25	100
	BLM	9	70.56	25	100	6	70.83	25	100
	Other	97	50.63	1	100	43	52.14	5	100
No Answer/Don't Know/Refused		103	48.56	5	100	30	36.30	10	100
		1,799	--	--	--	682	--	--	--

^a Caution should be taken in interpreting results due to the small N sizes on each track.

^b Missing cases are respondents that do not know the percentage of time the OHV is used on different tracks.

Storage Information on OHV's

Nearly two-third (63%) of respondents said their OHV was stored with fuel in the tank (Table 26).

Table 26: "Is Your OHV Stored With Fuel In It?"^a

		Number of cases	Percentage
1 st OHV	Yes	707	62.7%
	No	391	34.7%
	Don't know	29	2.6%
	Total	1,127	100.0%
2 nd OHV	Yes	250	68.1%
	No	109	29.7%
	Don't know	8	2.2%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Nearly all (99%) registered OHV owners stored their OHV in the same county throughout the year (Table 27).

Table 27: "Do You Store Your OHV in the Same County Throughout the Year?"^{ab}

		Number of cases	Percentage
1 st OHV	Yes	1,115	98.9%
	No	9	0.8%
	Don't know	3	0.3%
	Total	1,127	100.0%
2 nd OHV	Yes	361	98.4%
	No	4	1.1%
	Don't know	2	0.5%
	Total	367	100.0%

^a Percentages may not sum to 100 percent due to rounding.

^b Of the nine respondents who said no, three said they did not know in which county the OHV was stored and six stored the OHV in multiple counties.

Table 38 shows the counties where the OHV is stored throughout the year. Los Angeles (12%), Riverside (7%), and San Diego (7%) counties have the highest percentage of OHVs stored throughout the year. Six respondents said they store their OHV in multiple counties throughout the year.

Table 28: In What County Do You Store Your OHV?''a

	1 st OHV		2 nd OHV	
	Number of cases	Percentage	Number of cases	Percentage
Alameda	19	1.7%	7	1.9%
Amador	6	0.5%	1	0.3%
Butte	29	2.6%	6	1.7%
Calaveras	5	0.4%	0	0.0%
Colusa	4	0.4%	0	0.0%
Contra Costa	31	2.8%	13	3.6%
Del Norte	2	0.2%	0	0.0%
El Dorado	13	1.2%	6	1.7%
Fresno	41	3.7%	16	4.4%
Glenn	2	0.2%	0	0.0%
Humboldt	15	1.3%	4	1.1%
Imperial	10	0.9%	3	0.8%
Inyo	6	0.5%	0	0.0%
Kern	39	3.5%	15	4.2%
Kings	3	0.3%	2	0.6%
Lake	4	0.4%	2	0.6%
Lassen	6	0.5%	4	1.1%
Los Angeles	134	12.0%	46	12.7%
Madera	14	1.2%	3	0.8%
Marin	5	0.4%	2	0.6%
Mariposa	3	0.3%	2	0.6%
Mendocino	12	1.1%	3	0.8%
Merced	8	0.7%	2	0.6%
Modoc	2	0.2%	1	0.3%
Mono	2	0.2%	1	0.3%
Monterey	13	1.2%	4	1.1%
Napa	4	0.4%	1	0.3%
Nevada	25	2.2%	6	1.7%
Orange	57	5.1%	17	4.7%
Placer	27	2.4%	7	1.9%
Plumas	3	0.3%	1	0.3%
Riverside	82	7.3%	29	8.0%
Sacramento	30	2.7%	11	3.0%
San Benito	5	0.4%	2	0.6%
San Bernardino	66	5.9%	22	6.1%
San Diego	76	6.8%	28	7.8%
San Francisco	1	0.1%	1	0.3%
San Joaquin	14	1.2%	5	1.4%
San Luis Obispo	25	2.2%	8	2.2%
San Mateo	11	1.0%	3	0.8%
Santa Barbara	16	1.4%	2	0.6%
Santa Clara	17	1.5%	7	1.9%
Santa Cruz	8	0.7%	2	0.6%
Shasta	29	2.6%	6	1.7%
Siskiyou	2	0.2%	2	0.6%
Solano	14	1.2%	5	1.4%
Sonoma	23	2.1%	6	1.7%
Stanislaus	31	2.8%	8	2.2%
Sutter	9	0.8%	4	1.1%
Tehama	10	0.9%	4	1.1%
Trinity	3	0.3%	1	0.3%
Tulare	18	1.6%	7	1.9%
Tuolumne	8	0.7%	2	0.6%
Ventura	41	3.7%	13	3.6%
Yolo	8	0.7%	4	1.1%
Yuba	7	0.6%	2	0.6%
Don't Know County	18	1.6%	1	0.3%
Out of State	5	0.4%	1	0.3%
Total	1,121 ^b	100.0%	361 ^b	100.0%

^a Percentages may not sum to 100 percent due to rounding.

^b Six respondents stored their OHVs in multiple counties throughout the year for both their 1st and 2nd OHV.

Demographics

Table 29: “Which of the Following Age Groups Includes You?”^a

	Number of Cases	Percentage
Under 18	25	2.2%
18-24	41	3.6%
25-44	331	29.4%
45-64	597	53.0%
65 and over	123	10.9%
Refused	10	0.9%
Total	1,127	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Table 30: “What Is Your Gender?”^a

	Number of Cases	Percentage
Male	922	81.8%
Female	205	18.2%
Total	1,127	100.0%

^a Percentages may not sum to 100 percent due to rounding.

Appendix

OHV Survey Questionnaire

Created by: The Institute for Social Research at California State University, Sacramento

Introduction:

Hello my name is _____ and I am a student calling from California State University, Sacramento on behalf of the California Air Resources Board. We are collecting information on off-highway vehicles (OHVs) in the state of California. The questions are easy to answer and should only take about 5-10 minutes depending on your responses.

I am calling about <year> <make> <model> registered to <owner>.

Q: Screen1

Do you or someone in your household use this <OHV>? (KEY)

1. Yes
2. No, don't have <OHV> anymore (sold, gave away etc.)
3. No, owner has moved
4. No, wrong number, don't know anything about <OHV>
5. No, vehicle owner is deceased
6. DON'T KNOW
7. REFUSED

If Q Screen 1 > 1 respondent not qualified

Q: Screen2

May I speak with the registered owner or a person that is familiar with or most often uses the <OHV>? (KEY)

1. Owner agrees to be interviewed
2. Another person agrees to be interviewed
3. Appropriate person is not available (schedule callback)

GENERAL INFO

Q1. What type of registration does your <OHV> have? (KEY)

1. Green stick
2. Red sticker
3. No sticker
4. DON'T KNOW
5. REFUSED

Q1a. Does the engine use a carburetor or fuel injection? (KEY)

1. CARBURETOR
2. FUEL INJECTION
3. DON'T KNOW
4. REFUSED

Q2. What type of fuel do you use in your <OHV>? (KEY)

1. Gasoline
2. Diesel
3. DON'T KNOW
4. REFUSED

If (ans <> 1) skip to Q4

Q3. Is it a 2 stroke or a 4 stroke? (KEY)

1. 2 STROKE
2. 4 STROKE
3. DON'T KNOW
4. REFUSED

USAGE

Q4. On average, how many days did you operate your <OHV> in the last 12 months? (NUM)

_____ Days

INTERVIEWER NOTE: IF RESPONDENT SAYS DON'T KNOW ENTER 98 AND FOR REFUSED ENTER 99.

Q5. On a typical day of use, approximately how many hours do you operate your <OHV>? (NUM) _____ Hours

INTERVIEWER NOTE: IF RESPONDENT SAYS DON'T KNOW ENTER 98 AND FOR REFUSED ENTER 99.

Q6. On a typical day of use, how many miles do you ride? (NUM) _____ miles per day

INTERVIEWER NOTE: IF RESPONDENT SAYS DON'T KNOW ENTER 98 AND FOR REFUSED ENTER 99.

Q7. How many times per day of riding do you tip your <OHV> on its side or top either while riding (riding at an angle or crashing) or laying the <OHV> on its side for maintenance, etc? _____ times per day of use. (NUM)

INTERVIEWER NOTE: IF RESPONDENT SAYS DON'T KNOW ENTER 98 AND FOR REFUSED ENTER 99.

Q8. When do you ride your <OHV>? (KEY)

1. Weekends only (Sat-Sun)
2. Weekdays only (Mon-Fri)
3. Both (Mon-Sun)
4. DON'T KNOW
5. REFUSED

If (ans <>3) skip to Q9

Q8a. Could you please estimate the percent of time you use the <OHV> on the weekends compared to the weekdays? (Select w/Other)

1. Weekends _____
2. Weekdays _____
3. Total _____
4. DON'T KNOW
5. REFUSED

INTERVIEWER NOTE: THE TOTAL SHOULD EQUAL 100 PERCENT. PLEASE VERIFY AND ENSURE THE TOTAL IS 100 PERCENT.

Q9. In which seasons do you use your <OHV>? (Select)

1. Winter: Dec-Jan-Feb
2. Spring: Mar-Apr-May
3. Summer: June-July-Aug
4. Fall: Sept-Oct- Nov
5. DON'T KNOW
6. REFUSED

INTERVIEWER NOTE: SELECT ALL THAT APPLY

Q9a. Please estimate the percentage you use your <OHV> in each of the following seasons? (Select w/Other)

1. Winter _____
2. Spring _____
3. Summer _____
4. Fall _____
5. DON'T KNOW
6. REFUSED

INTERVIEWER NOTE: THE TOTAL SHOULD EQUAL 100 PERCENT. PLEASE VERIFY AND ENSURE THE TOTAL IS 100 PERCENT.

Q10a. Our records indicate your <OHV> is registered in <DMV record of county>. Is this correct? (KEY)

1. Yes
2. No
3. DON'T KNOW
4. REFUSED

If (ans =1) skip to Q11

Q10b. In which county is your <OHV> registered ? (SELECT ONLY ONE)

- | | | |
|-----------------|---------------------|-----------------------|
| 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. Do you **only** use your <OHV> in that county? (KEY)

1. Yes
2. No
3. DON'T KNOW
4. REFUSED

If (ans=1) skip to Q13

Q12. Where do you typically operate your <OHV>? (KEY)

1. Outside your county only
2. Both Inside and outside your county
3. Unsure of county in which OHV is typically operated
4. DON'T KNOW
5. REFUSED

If (ans=3) skip to Q13

Q12a. In how many counties do you typically operate your <OHV>?
(NUM)_____

INTERVIEWER NOTE: IF RESPONDENT SAYS DON'T KNOW ENTER 98 AND FOR REFUSED ENTER 99.

If (ans< 5) skip to Q12b

T12. The next few questions will pertain to the top 5 counties in which you use the <OHV> most often.

INTERVIEWER NOTE: WE ARE INTERESTED IN THE COUNTIES WHERE THEY USE THE OHV THE MOST OFTEN (UP TO 5 COUNTIES)

ENTER 1 TO CONTINUE

Q12b. Please tell me in which counties you use the <OHV>? (SELECT 5 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 |

Q12c. Could you please estimate the percentage of time you use the < OHV> in each county? (SEL & OTH)

SHOW County 1 _____
SHOW County 2 _____
SHOW County 3 _____
SHOW County 4 _____
SHOW County 5 _____

INTERVIEWER NOTE: IF THEY SAY "DON'T KNOW" ENTER 98 INTO COUNTY ONE. IF THEY SAY "REFUSED" PLEASE ENTER 99 INTO COUNTY ONE. PLEASE ENSURE THE TOTAL IS EQUAL TO 100 PERCENT. IF IT DOES NOT THAN VERIFY EVERY ANSWER.

Q13. Do you typically use your <OHV> at the same parks, places, tracks during the year? (KEY)

1. Yes
2. No
3. DON'T KNOW
4. REFUSED

Q13a. On how many different parks, places, and tracks do you operate the <OHV>? (NUM) _____

Q13b. Please list the parks, places, tracks where you use the <OHV>. (SEL & OTH)

1. _____
2. _____
3. _____
4. _____
5. _____

INTERVIEWER NOTE: IF THEY SAY "DON'T KNOW" ENTER 98 INTO ONE. IF THEY SAY "REFUSED" PLEASE ENTER 99 INTO ONE.

Q13d. Could you please estimate the percentage of time operated at each park, place, and track. (NUM)

SHOW answer 1 _____
SHOW answer 2 _____
SHOW answer 3 _____
SHOW answer 4 _____
SHOW answer 5 _____

STORAGE

Q14. What is the size of your <OHV> fuel tank? (NUM) _____ Gallons

INTERVIEWER NOTE: IF RESPONDENT SAYS DON'T KNOW ENTER 98 AND FOR REFUSED ENTER 99.

Q15. Is your <OHV> stored with fuel in the tank? (KEY)

1. Yes
2. No
3. DON'T KNOW
4. REFUSED

Q16. Do you store your <OHV> in the same location throughout the year? (KEY)

1. Yes
2. No
3. DON'T KNOW
4. REFUSED

If (ans >1) skip to T17

Q16a. In which county do you store your <OHV>? _____(Open ended)

INTERVIEWER NOTE: IF RESPONDENT SAYS DON'T KNOW ENTER 98 AND FOR REFUSED ENTER 99.

Skip to Q17

T16. The next series of questions pertains to where is your OHV stored during each of the following seasons.

Q16a. In which county do you most often store your <OHV> during the winter (Dec-Jan-Feb)? (Open ended)

Q16b. In which county do you most often store your <OHV> during the spring (Mar-Apr-May)? (Open ended)

Q16c. In which county do you most often store your <OHV> during the summer (June-July-Aug)? (Open ended)

Q16d. In which county do you most often store your <OHV> during the fall (Sep-Oct-Nov)? (Open ended)

OTHER OHVS

Q17. Do you own any other <OHV>? (KEY)

1. Yes
2. No
3. DON'T KNOW
4. REFUSED

If (ans >1) skip to QAGE

Q18. I would like to ask you about this other Off Highway Vehicle; this should only take a few more minutes now that you are familiar with the questions. Would that be okay? (KEY)

1. Yes
2. No
3. DON'T KNOW
4. REFUSED

If (ans>1) skip to QAGE

Q19. What type of Off Highway Vehicle do you own? (KEY)

1. Off-road motorcycle
2. All-terrain vehicle (ATV)
3. Sand Car
4. Off-road utility vehicle
5. Off-road sport vehicle
6. DON'T KNOW
7. REFUSED

Q19a. What is the year for this Off Highway Vehicle? (NUM)_YYYY__

Q19b. What is the make for this Off Highway Vehicle? (open ended)

Q19c. What is the model for this Off Highway Vehicle? (open ended)

Q19d. What is the registration for this Off Highway Vehicle? (KEY)

1. Green sticker
2. Red Sticker
3. No sticker
4. DON'T KNOW
5. REFUSED

Q20. Does the engine use a carburetor or fuel injection? (KEY)

1. CARBURETOR
2. FUEL INJECTION
3. DON'T KNOW
4. REFUSED

Q21. What type of fuel do you use in your Off Highway Vehicle? (KEY)

1. Gasoline
2. Diesel
3. DON'T KNOW
4. REFUSED

If (ans <> 1) skip to Q24

Q23. Is it a 2 stroke or a 4 stroke? (KEY)

1. 2 STROKE
2. 4 STROKE
3. DON'T KNOW
4. REFUSED

Q24. Is any of the usage or storage information for this off road vehicle different than the information I have collected on the <OHV>?

1. Yes
2. No
3. DON'T KNOW
4. REFUSED

If (ans > 1 but < 3) skip back to Q4

QAGE. Which of the following age groups includes you? (KEY)

1. Under 18
2. 18-24
3. 25-44
4. 45-64
5. 65+
6. DON'T KNOW
7. REFUSED

QGEND. What is your gender? (KEY)

1. Male
2. Female
3. DON'T KNOW
4. REFUSED

END SCRIPT:

Thanks those are all the questions I have for you. Thank you for your time. If you are interested in learning more about this study you can visit the Air Resources board online at www.arb.ca.gov.