## Research Report

KTC-96-29

## EVALUATION OF RED LIGHT RUNNING CAMPAIGN

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## EXECUTIVE SUMMARY

The purpose of this project was to use a public information and education campaign, along with increased enforcement, to reduce the problem of red light running (RLR) in Lexington, Kentucky. The objective of this portion of the project was to evaluate the effectiveness of the campaign.

The mail and telephone surveys, taken before and after the campaign, revealed that the RLR program had been successful in improving public awareness of the problems associated with disregarding traffic signals. About 60 percent of the respondents recalled seeing or hearing ads or information dealing with red light running. Approximately one-half of the respondents who recalled RLR information indicated they had changed their driving with the most common response that they now stop for yellow lights.

Compared to the before period, the number of RLR collisions decreased by 4.8 percent during the five-month campaign period while total accidents increased by 8.9 percent. The number of RLR citations increased by 45.9 percent during the campaign period while total citations decreased by 14.9 percent. The number of cycles in which at least one vehicle crossed the stop bar after the start of the red indication decreased from 7.2 before to 4.6 percent at the end of the campaign at intersections which had the highest number of RLR collisions. The depositions of RLR citations were similar before and during the program with only about two percent dismissed or found not guilty.

### 1.0 INTRODUCTION

A red light violation occurs when a motorist enters an intersection after the signal indication has turned red. The stop bar is typically used as a reference for the point where a vehicle enters the intersection. If a vehicle crosses the stop bar after the signal indication has changed to red, a red light violation has occurred.

Research conducted by the Institute for Highway Safety has shown that disregarding traffic controls such as traffic signals and stop and yield signs is the most frequent cause of urban collision (1). Disregarding traffic controls accounted for 22 percent of 13 collision types identified as occurring in four urban areas. Running the red light was involved in 24 percent of all collisions involving disregarding traffic controls. The severity of collisions involving disregarding traffic controls was also high with injuries reported in 39 percent of these collisions. The national economic impact of these accidents has been estimated as approximately $\$ 7$ billion each year in medical costs, time off work, insurance increases, and property damage (2).

The Federal Highway Administration has developed a public information and education outreach campaign, which also incorporates increased enforcement, to address the "red light running" (RLR) problem. Several cities across the United States were selected as pilot locations for this program. Lexington, Kentucky was selected as one of these 31 cities.

The purpose of the project was to use a public information and education campaign, along with increased enforcement, to reduce the problem of red light running in Lexington. The objective of the portion of the project described in this report was to evaluate the effectiveness of the campaign.

### 2.0 DESCRIPTION OF PROGRAM

The project involved a public information and education campaign. Emphasis was also placed on enforcement of red light running violations by the Division of Police although no overtime was paid for this purpose.

A steering committee was established which was headed by a project director from the Division of Police. Committees were formed in the areas of event management, public information, graphic arts/printing, office management, evaluation, traffic engineering, law enforcement, and fundraising/coalition. Examples of types of public information and education used in the campaign included: a kick-off news conference, public service announcements on television and radio, newspaper and magazine articles, variable message signs using the
message "In the Bluegrass, Red Means Stop", posters, a banner, billboards, developing and distribution of educational material dealing with red light running, distribution of literature in businesses, and pledge boards where individuals pledged to stop red light running. The following promotional items with RLR messages were distributed (quantities given in parathesis): bumper stickers ( 7,000 ), mugs ( 553 ), labels ( 7,000 ), pencils ( 2,500 ), and buttons $(3,000)$. A summary of various companies and organizations which supported the campaign, with a brief description of their support, is given in Appendix A.

### 3.0 EVALUATION RESULTS

The project extended for the five-month time period from June through October 1996. The evaluation consisted of five components. These included:

- mail and telephone surveys conducted before and after the campaign,
- a traffic accident analysis,
- an analysis of traffic citations,
- an analysis of the number of vehicles running the red light at selected locations, and
- an analysis of the percentage of drivers who were convicted when cited for running a red light.

Following is a discussion of each evaluation component.

### 3.1 Public Attitude

In order to determine if the campaign affected the public attitude toward red light running, both mailed and telephone surveys were conducted prior to the start of the campaign and after the end of the campaign (in April and November 1996). Data were obtained from two sources for the mail survey and one source for the telephone survey. The mailed survey was sent to random samples of employees from both the Lexington Fayette Urban County Government and the University of Kentucky. There were 375 surveys sent to each group for a total of 750 mail surveys. The response rate was very similar for both groups. The overall response rate was 55 percent for the before survey and 48 percent for the after survey. A random sample was selected from the Lexington telephone book for the phone survey. A sample of 200 telephone interviews was completed prior to the start of the campaign with 170 interviews completed after completion of the campaign.

A copy of the mail survey is given in Appendix B. The mail and telephone surveys were almost identical. One objective was to determine if the public information portion of the campaign was successful. Respondents were asked if
they recalled seeing or hearing ads or information concerning red light running and if this information had changed their driving habits. They were also asked several other related questions such as how they defined running a red light and the frequency that they observed others running a red light.

Summaries of the survey results are given in Tables 1 and 2 for the mail and telephone surveys, respectively. In both tables, the percentages of respondents giving specific answers are compared for the before and after periods.

Following is a summary of the results of the mail surveys (shown in Table 1).

- The most common traffic violations that the respondents observed were speeding and failing to signal a turn.
- The percentage indicating they observed other drivers not stopping for a red light increased in the after period. This could be related to increased awareness of this problem. In both the before and after periods, almost three of four indicated they observe drivers running a red light either every day or a few times a week.
- About 60 percent correctly defined running a red light as entering an intersection on red as opposed to entering on yellow with the signal turning red while the car is in the intersection.
- The percentage indicating they had seen the police ticket someone who had run a red light increased slightly from 27 to 31 percent. Only about 25 percent said they had never run a red light. The most common reason for running the red light was that they could not stop in time.
- The percentage giving the number of times someone will be given a ticket for running a red light increased slightly for the higher choices which indicates a knowledge of increased enforcement. This was also the case for the number of potential collisions. This shows an increased awareness of the potential result of running a red light.
- The percentage indicating they had seen advertising about safe driving increased from 50 to 93 percent. This would be related to the RLR campaign with about 25 to 30 percent indicating they remembered seeing or hearing one of the two public service announcements.
- The percentage indicating they saw or heard some type of ad or other information related to RLR was 58 percent with the changeable message traffic board and television listed most often, followed by radio ads and newspaper articles. Of those who had recalled seeing or hearing information relating to RLR, almost one-half had seen either the changeable message sign or an ad on television.
- Almost one-half of the respondents who indicated they had seen or heard RLR information indicated they had changed their driving as a result of the campaign with most stating they now stopped for yellow lights.
- The respondents stated that the most effective source of information used in the campaign was the changeable message board.
- The percentage of male and female respondents was the same in both periods with a slightly higher percentage of older drivers in the before period.

Following is a summary of the results of the telephone survey (shown in Table 2).

- The most common traffic violations that the respondents observed were not stopping for a red light and speeding.
- In both the before and after periods, about 80 percent indicated they observed drivers running a red light either every day or a few times a week.
- The percent correctly defining running a red light as entering an intersection on red increased substantially in the after period to 66 percent.
- The percentage indicating they had seen the police ticket someone who had run the red light decreased in the after period. Almost one-half ( 45 percent) of the respondents indicated they never disregard a red light. The most common reason for running a red light is not being able to stop in time.
- The percentage giving the highest estimate for the number of drivers who will be stopped and ticketed for running a red light increased in the after period.
- The percentage indicating they had seen advertising about safe driving increased from 23 to 84 percent. This would be related to the RLR campaign with 28 and 42 percent indicating they remembered seeing or hearing the two PSAs.
- The percentage indicating they saw or heard some type of ad or other information related to RLR was 65 percent with the changeable message traffic board and television listed most often. Of those who had recalled seeing or hearing information relating to RLR, almost one-half had seen either the changeable message sign or an ad on television.
- Approximately one-half of the respondents who indicated they had seen or heard RLR information indicated they had changed their driving as a result of the campaign with one-half of those stating they now stopped for yellow lights.
- While most indicated no one particular ad made them change their driving, the message given on the changeable message sign was listed as the most effective source of information.
- The age distribution was similar for the before and after respondents with a higher percentage of females in the after period.

The use of the changeable message sign with the message "In the Bluegrass, Red Means Stop" was found to be an effective public information device from both surveys. Three signs were used at eight different locations for a total of 386 days.

### 3.2 Accident Analysis

Accident data in Fayette County were reviewed to obtain the number of collisions coded as occurring at an intersection with a traffic signal and where "disregarding traffic controls" was listed as a contributing factor on the police report (RLR accident). These data were summarized, by month, from January 1993 through October 1996. The monthly total number of accidents in Fayette County, as well as the number of accidents at signalized intersections involving disregarding the traffic controls, are listed in Table 3. These data were compiled by the Division of Police and the total accident category includes accidents which occurred in a parking lot.

For the three-year period (1993 through 1995) prior to the start of the campaign, there were 1,015 accidents involving disregarding a traffic signal. This represents approximately 2.6 percent of all accidents in Fayette County. These accidents resulted in four fatalities and 697 injuries. Using the economic costs of traffic accidents, as reported by the National Safety Council, these accidents resulted in a cost of about $\$ 10$ million per year.

The number of RLR collisions for the five-month period of the campaign (June 1996 through October 1996) was compared to the same five months for the previous three years. There was an average of 146 RLR accidents for these five months in the three-year before period compared to 139 during the five-month campaign period. This can be compared to the total number of accidents in Fayette County during these same time periods. There was an average of 5,604 total accidents in Fayette County during these five months in the three-year before period compared to 6,105 during the five-month campaign period. The data show that RLR accidents decreased by 4.8 percent during the campaign period while total accidents increased by 8.9 percent. Due to the relatively small number of RLR accidents, the decrease in RLR accidents, when compared to the increase in total accidents, was not statistically significant (3).

The numbers of RLR collisions at specific intersections were also determined. The intersections with the highest numbers were identified (Table 4) as locations with potential for increased enforcement. Specific approaches from these intersections were selected as the sites for violation data collection. The change in RLR collisions at these intersections was investigated. The number of collisions occurring in June through October is shown in Table 4 for 1993 through 1995 as well as during the 1996 campaign period. There were some large decreases in RLR collisions at some of the intersections which had the largest number of this type of collision. Considering the total at all of the intersections, the average number of RLR collisions occurring in the three years before the campaign (June through October) was almost identical to the number in 1996 during those months.

The time period in which the highest number of RLR collisions occurred at the high accident intersections is given in Table 5. The most common time interval was between noon and 3 pm . Most of the collisions occurred between 9 am and 6 pm . This information was used when determining the times to collect the violation data.

### 3.3 Citation Analysis

Citation data in Fayette County were reviewed to determine the number of citations written for a driver disregarding a traffic signal. The number of total citations and the number of RLR citations written in Fayette County, by month, are given in Table 6. There was an average of 1,330 RLR citations written from June through October for the three years of 1993 through 1995. This compares to 1,940 written in this five-month campaign period in 1996. The total number of citations for all types of violations written changed from an average of 24,890 during the five-month periods in 1993 through 1995 to 21,192 in 1996. This shows that the number of RLR citations increased by 45.9 percent during the campaign period while total citations decreased by 14.9 percent. This increase in RLR citations, when compared to total citations, was statistically significant (3).

The numbers of RLR citations written at specific intersections were also obtained. Intersections having the highest number of RLR citations are given in Table 7. These intersections could be compared to those having the highest number of RLR collisions (as shown in Table 4). Only five of the 18 intersections listed in Table 4, as having the highest number of RLR collisions, were identified as intersections with the highest number of RLR citations (Table 7).

The number of citations written at the high accident locations before and during the program is summarized in Table 8. The number of citations written from June through October is given since this was the time period for the program. The average of 1993 through 1995 was compared to the number in 1996. The number of citations written during the campaign period increased at 9 of the 18 intersections. The largest increase was at the intersection of Nicholasville Road and Lowry Lane.

### 3.4 Violation Analysis

As a method of estimating the change in RLR violations, violation data were collected at a sample of intersection approaches before and at the end of the fivemonth campaign. Accident data which identified the intersections with the highest numbers of accidents involving a driver disregarding the traffic signal were used to select the intersections and approaches. Data were taken for at least 100 cycles for each approach. The percentage of cycles in which at least one vehicle crossed the
stop bar after the start of the red indication was determined. Only vehicles proceeding straight through the intersection were counted since almost all of the RLR accidents involved a vehicle making this maneuver. Data were taken at 17 approaches at 16 intersections.

The violation data are presented in Table 9. In the before period the percent of cycles involving a RLR violation ranged from 1 to 24 percent with an average of 7.2 percent. This can be compared to data taken in a previous study involving an evaluation of change interval treatments for traffic signals at high-speed intersections (4). A violation rate of 5.5 percent was determined for intersections with no green extension system. Speed limits at the high-speed locations were typically 55 mph compared to 35 mph at most of the intersections included in this study. The data taken after the campaign showed a range of 0 to 10 percent with an average of 4.6 percent. This shows there was a substantial decrease in violation rates. This could be related to the publicity related to the campaign and the increased enforcement. The percent of cycles with a RLR violation decreased at 11 of the 17 approaches.

### 3.5 Conviction Rate

The conviction rate for drivers cited for disregarding a traffic signal was compared before and during the campaign. A comparison of conviction rates during the five-month program period with the same time period in 1995 is given in Table 10.

The dispositions of the citations were similar before and during the program. Approximately two-thirds of the citations were prepaid. Only about two percent were dismissed or found not guilty.

### 4.0 CONCLUSIONS

The mail and telephone surveys revealed that the red light running (RLR) program had been successful in improving public awareness of the problems associated with disregarding traffic signals. Most of the respondents ( 58 percent of the mail survey and 65 percent of the telephone survey) indicated they recalled seeing or hearing ads or information on red light running during the campaign period. The changeable message board and television ads were recalled most often. For the drivers who indicated they had seen RLR information, a substantial percentage ( 44 percent of the mail survey and 49 percent of the telephone survey) indicated they had changed their driving as a result of the information.

Compared to the average of the previous three years, the number of RLR collisions decreased by 4.8 percent during the five-month campaign period (from 146 to 139) while total accidents increased by 8.9 percent. The number of collisions at the intersections with the largest number of RLR collisions was almost identical during the before period as compared to during the campaign.

Compared to the same time period during the previous three years, the number of RLR citations increased by 45.9 percent during the campaign period while total citations decreased by 14.9 percent. The number of citations increased at 9 of the 18 intersections having the largest number of RLR collisions.

The percent of cycles in which at least one vehicle crossed the stop bar after the start of the red indication decreased after the campaign from 7.2 to 4.6 percent at intersections having the highest number of RLR collisions. The percent of cycles with a RLR violation decreased at 11 of the 17 approaches studied.

The disposition of RLR citations were similar before and during the program. Only about two percent were dismissed or found not guilty.

## REFERENCES

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TABLE 1. SUMMARY OF MAIL SURVEYS

| QUESTION | PERCENT RESPONDING <br> AFTER* |
| :--- | :--- |
| BEFORE* |  |

When you are driving, what traffic violations do you see other drivers committing?

| Drunk or drugged driving | 20 | 26 |
| :--- | :--- | :--- |
| Speeding | 86 | 91 |
| Not stopping completely at stop signs | 73 | 80 |
| Illegal turns | 65 | 55 |
| Tailgating/following too closely | 73 | 75 |
| Failure to signal a turn | 84 | 84 |
| Reckless driving | 41 | 52 |
| Not stopping for a red light | 48 | 76 |
| Failure to yield right-of-way | 52 | 57 |
| Failure to stop at light when making a turn on red | 29 | 60 |
| Passing illegally | 40 | 41 |
| Driving too slow |  | 45 |

How do you define rumning a red light?

| Entering an intersection on yellow but the light turns red while the car |  | 36 |
| :--- | ---: | ---: |
| is still in the intersection | 40 | 61 |
| Entering an intersection on red | 58 | 6 |
| Other | 2 | 3 |

How often do you see others run red lights?
Every day $\quad 40 \quad 42$

A few times a week 32
A few times a month 14
20
Less than once a month 14
7
Have you ever seen the police ticket someone who has run a red light?

| Yes | 27 | 31 |
| :--- | :--- | :--- |
| No | 42 | 37 |
| Not sure -seen someone ticketed near an intersection but not sure why | 32 | 32 |

Have you ever run a red light as you described it?

| Yes, once | 25 | 28 |
| :--- | :--- | :--- |
| Yes, more than once | 50 | 48 |
| No | 25 | 24 |

If yes, how did it happen?
$\begin{array}{lll}\text { Couldn't stop in time } & 30 & 29\end{array}$
$\begin{array}{lll}\text { Afraid car behind would hit me } & 17 & 16\end{array}$
$\begin{array}{lll}\text { In a hurry } & 13 & 9\end{array}$
No other cars around $\quad 5 \quad 4$
$\begin{array}{lll}\text { Not paying close enough attention } & 18 & 19\end{array}$
$\begin{array}{lll}\text { Unfamiliar with area, did not see light } & 8 & 10\end{array}$
Distracted by someone in car $\quad 4 \quad 6$
$\begin{array}{ll}\text { Other } & 6\end{array}$

[^0]|  | PERCENT RESPONDING |
| :---: | :---: |
| QUESTION | BEFORE AFTER |

Out of 100 drivers who run a red light in Lexington, how many do you think will actually be stopped and ticketed by police?

| None | 8 | 7 |
| :--- | ---: | ---: |
| 1 to 2 | 39 | 37 |
| 3 to 5 | 29 | 32 |
| 6 to 10 | 13 | 16 |
| $11-20$ | 7 | 5 |
| More | 3 | 3 |

Out of 100 instances where someone runs a red light in Lexington, how many do you think will result in a car crash, hitting a pedestrian or a cyclist?

| None | 2 | 1 |
| :--- | ---: | ---: |
| 1 to 2 | 34 | 28 |
| 3 to 5 | 26 | 31 |
| 6 to 10 | 22 | 24 |
| 11 to 20 | 12 | 10 |
| More | 4 | 5 |

In how many of these cases do you think someone will be hurt?

| None | 2 | 1 |
| :--- | ---: | ---: |
| 1 to 2 | 41 | 41 |
| 3 to 5 | 26 | 28 |
| 6 to 10 | 14 | 16 |
| 11 to 20 | 11 | 7 |
| More | 6 | 6 |

Do you recall seeing or hearing any advertising about safe driving in the last five months?

| Yes | 50 | 93 |
| :--- | :--- | ---: |
| No | 33 | 4 |
| Not sure | 17 | 3 |

Two ads or public service announcements are described briefly below. Please indicate whether you recall seeing or hearing any of them.
"He took a chance"

| Yes | 2 | 30 |
| :--- | ---: | ---: |
| No | 91 | 55 |
| Not sure | 7 | 14 |

"We're putting a stop to red light runners for good - your good

| Yes | 3 | 26 |
| :--- | ---: | ---: |
| No | 90 | 56 |
| Not sure | 7 | 17 |


|  | PERCENT RESPONDING* |
| :---: | :---: |
| QUESTION | AFTER |

Do you recall seeing or hearing ads or information on red light running anywhere else in the last five months?

| Yes | 58 |
| :--- | :--- |
| No | 29 |
| Not sure | 13 |

Not sure 13

If yes, indicate where the ads or information appeared.

| Television | $25(46) * *$ |
| :--- | :---: |
| Magazine ad | $2(3)$ |
| Radio ad | $16(30)$ |
| Changeable Message Traffic Board | $26(48)$ |
| Newspaper article | $15(28)$ |
| Magazine article | $2(3)$ |
| Newspaper ad | $7(14)$ |
| Flier or direct mail insert | $7(14)$ |

If yes, have you changed your driving in any way as a result of seeing or hearing any of these ads?

Yes,definitely 51
Probably 19
Probably Not 12
No 19
If yes, in what particular way have you changed something about your driving?

Stop for red lights now 21
Stop for yellow lights now 48
Other 31
If yes, which ad, if any, made you change your driving?
"He took a chance" (public service announcement) 11
"We're putting a stop to red light runners" (public service announcement) 8
"In the Bluegrass Red Means Stop" (changeable message board) 46
Other ads 3
None in particular 33

* Only the very few responding that thought they had seen a PSA answered these questions in the before survey so only the after survey data are given.

Number in parenthesis is the percentage of all respondents who indicated they had seen information concerning red light running in the specific area.

TABLE 1.


## Age Group

| 16 to 25 | 6 | 3 |
| :--- | ---: | ---: |
| 26 to 45 | 56 | 64 |
| 46 to 60 | 33 | 28 |
| Over 60 | 5 | 5 |

Sex
Male ..... 54 ..... 54
Female ..... 46
Last Grade Completed in School
Less than high school ..... 1
Some high school ..... 2
High school graduate ..... 16
Come college degre ..... 25
Post-graduate ..... 28
How often do you wear a seat belt when you drive?
Always ..... 79
Most of the time ..... 14
Less than half the time ..... 6
Never1

About how many miles do you drive per year?
Less than 10,000 ..... 20
10,000 to 15,000 ..... 43
15,000 to 20,000 ..... 22
More than 20,000 ..... 15
Have you ever gotten a ticket for a moving violation?
No ..... 28 ..... 29
Yes, once ..... 31 ..... 30
Many times ..... 1

Have you ever taken a driver education course?

| No | 45 | 38 |
| :--- | :--- | :--- |
| Yes | 55 | 62 |


|  | PERCENT | ONDING |
| :---: | :---: | :---: |
| QUESTION | BEFORE* | AFTER* |

When you are driving, what traffic violations do you see other drivers committing?

| Drunk or drugged driving | 4 | 2 |
| :--- | ---: | ---: |
| Speeding | 52 | 45 |
| Not stopping completely at stop signs | 40 | 21 |
| Illegal turns | 13 | 6 |
| Tailgating/following too closely | 22 | 9 |
| Failure to signal a turn | 35 | 29 |
| Reckless driving | 18 | 5 |
| Not stopping for a red light | 72 | 72 |

How do you define running a red light?

| Entering an intersection on yellow by the light turns red while the car |  |  |
| :--- | ---: | ---: |
| is still in the intersection | 53 | 29 |
| Entering an intersection on red | 46 | 66 |
| Other | 1 | 6 |

How often do you see others run red lights?
Every day $\quad 42 \quad 49$
A few times a week 37
A few times a month 15
31
$\begin{array}{lll}\text { Less than once a month } & 6 & 10\end{array}$
Have you ever seen the police ticket someone who has run a red light?

| Yes | 31 | 19 |
| :--- | ---: | ---: |
| No | 57 | 73 |
| Not sure -seen someone ticketed near an intersection but not sure why | 12 | 8 |

Have you ever run a red light as you described it?
Yes, once . $33 \quad 40$
Yes, more than once 35 15
No 32 45

## If yes, how did it happen?

Couldn't stop in time $\quad 41 \quad 29$
Afraid car behind would hit me $\quad 14 \quad 22$
In a hurry $\quad 27$
24
No other cars around $\quad 2$
Other 15
22

* The before survey was conducted in April 1996 with the after survey in November 1996.

TABLE 2.

|  | PERCENT RESPONDING |
| :---: | :---: |
| QUESTION | BEFORE AFTER |

Out of 100 drivers who run a red light in Lexington, how many do you think will actually be stopped and ticketed by police?

| None | 10 | 10 |
| :--- | ---: | ---: |
| 1 to 2 | 31 | 24 |
| 3 to 5 | 27 | 28 |
| 6 to 10 | 18 | 18 |
| $11-20$ | 10 | 8 |
| More | 4 | 12 |

Out of 100 instances where someone runs a red light in Lexington, how many do you think will result in a car crash, hitting a pedestrian or a cyclist?

| None | 2 | 4 |
| :--- | ---: | ---: |
| 1 to 2 | 36 | 28 |
| 3 to 5 | 25 | 25 |
| 6 to 10 | 21 | 17 |
| 11 to 20 | 12 | 9 |
| More | 4 | 17 |

In how many of these cases do you think someone will be hurt?

| None | 2 | 0 |
| :--- | ---: | ---: |
| 1 to 2 | 33 | 30 |
| 3 to 5 | 26 | 23 |
| 6 to 10 | 21 | 19 |
| 11 to 20 | 13 | 14 |
| More | 4 | 15 |

Do you recall seeing or hearing any advertising about safe driving in the last three months?

| Yes | 23 | 84 |
| :--- | ---: | ---: |
| No | 76 | 14 |
| Not sure | 1 | 2 |

Two ads or public service announcements are described briefly below. Please indicate whether you recall seeing or hearing any of them.
"He took a chance"
$\begin{array}{lrl}\text { Yes } & 1 & 42 \\ \text { No } & 99 & 53\end{array}$
Not sure $\quad 0 \quad 5$
"We're putting a stop to red light rumners for good - your good
Yes 1
28
No 98
61
Not sure $\quad 111$

TABLE 2.

| QUESTION |  | PERCENT RESPONDIN AFTER |
| :---: | :---: | :---: |
| Do you recall seeing or hearing ads on red light running anywhere else in the last five months? |  |  |
|  | Yes | 65 |
|  | No | 35 |
| If yes, indicate where the ads or information appeared. |  |  |
|  | Television | 31 (42)** |
|  | Magazine ad | 4 (5) |
|  | Radio ad | 14 (19) |
|  | Changeable Message Traffic Board | 33 (45) |
|  | Newspaper article | 17 (23) |
| If yes, have you changed your driving in any way as a result of seeing or hearing any of these ads? |  |  |
|  | Yes | 49 |
|  | No | 51 |
| If yes, in what particular way have you changed something about your driving? |  |  |
|  | Stop for red lights now | 27 |
|  | Stop for yellow lights now | 50 |
|  | Other | 23 |
| If yes, which ad made you change your driving? |  |  |
|  | "He took a chance" | 12 |
|  | "We're putting a stop to red light runners" | 14 |
|  | "In the Bluegrass, Red Means Stop" | 26 |
|  | None in particular | 47 |

* Only the very few responding that thought they had seen a PSA answered these questions in the before survey so only the after survey data are given.
** Number in parenthesis is the percentage of all respondents who indicated they had seen information concerning red light running in the specific area.

TABLE 2.

|  | PERCENT RESPONDING |
| :---: | :---: |
| QUESTION | BEFORE AFTER |

Age Group

| 16 to $25-$ | 18 | 12 |
| :--- | :--- | :--- |
| 26 to 45 | 40 | 42 |
| 46 to 60 | 22 | 25 |
| Over 60 | 21 | 22 |

Sex
Male 49

Female 51

Last Grade Completed in School

| Some high school | 3 | 7 |
| :--- | ---: | ---: |
| High school graduate | 24 | 22 |
| Some college | 39 | 24 |
| College degree | 24 | 33 |
| Post-graduate | 10 | 15 |

How often do you wear a seat belt when you drive?

| Always | 69 | 80 |
| :--- | :--- | ---: |
| Most of the time | 18 | 9 |
| Less than half the time | 11 | 8 |

$\begin{array}{lll}\text { Less than half the time } & 11 & 8\end{array}$
Never $\quad 2$
2
About how many miles do you drive per year?

| Less than 10,000 | 32 | 35 |
| :--- | ---: | ---: |
| 10,000 to 15,000 | 38 | 35 |
| 15,000 to 20,000 | 22 | 16 |
| More than 20,000 | 8 | 14 |

Have you ever gotten a ticket for a moving violation?

| No | 39 | 42 |
| :--- | ---: | ---: |
| Yes, once | 41 | 45 |
| A few times | 20 | 12 |
| Many times | 1 | 1 |

Have you ever taken a driver education course?

| No | 52 | 48 |
| :--- | :--- | :--- |
| Yes | 48 | 52 |

TABLE 3. SUMMARY OF ACCIDENT DATA (FAYETTE COUNTY) (January 1993-October 1996)

| NUMBER OF ACCIDENTS |  |  |
| :---: | :---: | :---: |
| TIME PERIOD | TOTAL | SIGNAL - DISREGARD TRAFFIC CONTROL |
| January 1993 | 845 | 30 |
| February | 963 | 20 |
| March | 942 | 26 |
| April | 1,064 | 34 |
| May | 952 | 22 |
| June | 971 | 20 |
| July | 972 | 28 |
| August | 1,107 | 16 |
| September | 1,092 | 31 |
| October | 1,369 | 28 |
| November | 1,115 | 30 |
| December | 1,451 | 24 |
| January 1994 | 1,163 | 19 |
| February | 959 | 14 |
| March | 1,104 | 33 |
| April | 1,078 | 43 |
| May | 1,103 | 24 |
| June | 1,037 | 31 |
| July | 1,127 | 35 |
| August | 1,028 | 28 |
| September | 1,109 | 32 |
| October | 1,183 | 40 |
| November | 1,156 | 41 |
| December | 1,173 | 35 |
| January 1995 | 1,062 | 21 |
| February | 910 | 32 |
| March | 1,005 | 30 |
| April | 1,054 | 29 |
| May | 1,179 | 22 |
| June | 1,103 | 29 |
| July | 1,062 | 27 |
| August | 1,178 | 30 |
| September | 1,133 | 28 |
| October | 1,342 | 35 |
| November | 1,199 | 17 |
| December | 1,387 | 31 |
| January 1996 | 1,260 | 29 |
| February | 1,118 | 21 |
| March | 1.157 | 26 |
| April | 1,142 | 34 |
| May | 1,190 | 31 |
| June | 1,221 | 24 |
| July | 1,121 | 28 |
| August | 1,207 | 21 |
| September | 1,203 | 27 |
| October | 1,353 | 39 |

TABLE $4 . \quad$ INTERSECTIONS WITH THE HIGHEST NUMBER OF ACCIDENTS INVOLVING DRIVER DISREGARDING TRAFFIC SIGNAL (1993-1995) AND COMPARISON BEFORE AND DURING CAMPAIGN

| INTERSECTION | TOTAL ACC. <br> (1993-1995) | APPROACH | MANEUVER | ACCIDENTS BY APPR. AND MANEUVER |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1993- | JUNE | CT. |
|  |  |  |  | 1995 | 93-95 | 96 |
| Nicholasville - New Circle (two intersections) | 25 | South | Straight | 17 | 8 | 0 |
|  |  | North | Straight | 4 | 0 | 1 |
|  |  | South | Left | 2 | 1 | 0 |
|  |  | East. | Left | 2 | 1 | 0 |
| Nicholasville - Lowry | 20 | South | Straight | 12 | 5 | 1 |
|  |  | North | Straight | 8 | 4 | 1 |
| Third - Limestone | 20 | North | Straight | 19 | 9 | 0 |
|  |  | East | Straight | 1 | 1 | 0 |
| Broadway - Vine | 19 | South | Straight | 13 | 4 | 1 |
|  |  | North | Straight | 4 | 0 | 0 |
|  |  | East | Straight | 2 | 2 | 0 |
| Broadway - Sixth | 16 | North | Straight | 10 | 3 | 0 |
|  |  | South | Straight | 3 | 1 | 1 |
|  |  | North | Right | 1 | 0 | 0 |
|  |  | East | Straight | 1 | 1 | 0 |
|  |  | West | Straight | 1 | 1 | 0 |
| Nicholasville - Reynolds | 14 | South | Straight | 10 | 3 | 2 |
|  |  | West | Straight | 2 | 0 | 0 |
|  |  | East | Straight | 1 | 0 | 0 |
|  |  | South | Left | 1 | 1 | 0 |
| Short-Jefferson | 12 | South | Straight | 10 | 6 | 1 |
|  |  | North | Straight | 1 | 1 | 0 |
|  |  | East | Straight | 1 | 0 | 1 |
| Fourth - Upper | 11 | West | Straight | 9 | 6 | 2 |
|  |  | South | Straight | 2 | 0 | 2 |
| Richmond - New Circle (two intersections) | 11 | West | Straight | 6 | 1 | 2 |
|  |  | East | Straight | 2 | 1 | 0 |
|  |  | North | Left | 1 | 1 | 0 |
|  |  | East | Left | 1 | 0 | 0 |
|  |  | West | Left | 1 | 1 | 0 |
| High - Mill | 11 | West | Straight | 9 | 0 | 2 |
|  |  | North | Straight | 1 | 0 | 0 |
|  |  | West | Left | 1 | 1 | 0 |

TABLE 4. INTERSECTIONS WITH THE HIGHEST NUMBER OF ACCIDENTS INVOLVING DRIVER DISREGARDING TRAFFIC SIGNAL (1993-1995) AND COMPARISON BEFORE AND DURING CAMPAIGN (continued)

| INTERSECTION | $\begin{aligned} & \text { TOTAL ACC } \\ & (1993-1995) \end{aligned}$ | APPROACH | MANEUVER | ACCIDENTS BY APPR. AND MANEUVER |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & 1993- \\ & 1995 \end{aligned}$ | JUNE-OCT. |  |
|  |  |  |  |  | 93-95 | 96 |
| Martin Luther King - Short | 10 | South | Straight | 7 | 1 | 1 |
|  |  | North | Straight | 2 | 2 | 1 |
|  |  | East | Straight | 1 | 0 | 0 |
| High - Limestone | 10 | West | Straight | 9 | 6 | 1 |
|  |  | North | Straight | 1 | 0 | 2 |
| Rose - High | 10 | West | Straight | 4 | 3 | 1 |
|  |  | East | Straight | 1 | 0 | 0 |
|  |  | North | Straight | 4 | 1 | 3 |
|  |  | South | Straight | 1 | 1 | 0 |
| Euclid - Ashland | 9 | East | Straight | 6 | 4 | 2 |
|  |  | West | Straight | 1 | 1 | 0 |
|  |  | South | Straight | 1 | 0 | 0 |
|  |  | North | Left | 1 | 0 | 0 |
| Martin Luther King - High | 9 | West | Straight | 5 | 0 | 1 |
|  |  | North | Straight | 3 | 0 | 0 |
|  |  | South | Straight | 1 | 0 | 1 |
| Nicholasville - Wilson Downing | 9 | South |  | 7 | 0 | 0 |
|  |  | West | Straight | 1 | 0 | 0 |
|  |  | West | Left | 1 | 0 | 0 |
|  |  | North | Straight | 0 | 0 | 1 |
| Rose - Maxwell | 9 | South | Straight | 8 | 4 | 1 |
|  |  | North | Straight | 1 | 0 | 1 |
| Nicholasville - Moore | 8 | North | Straight | 6 | 4 | 1 |
|  |  | South | Straight | 2 | 2 | 0 |


| INTERSECTION | TIME PERIOD |
| :--- | :---: |
| $=\mathbf{N i c h o l a s v i l l e ~ - ~ N e w ~ C i r c l e ~}$ |  |
| Nicholasville - Lowry | $3 \mathrm{pm}-6 \mathrm{pm}$ |
| Broadway - Sixth | noon -3 pm |
| Third - Limestone | noon -3 pm |
| Nicholasville - Reynolds | $3 \mathrm{pm}-6 \mathrm{pm}$ |
| Fourth - Upper | $9 \mathrm{pm}-12 \mathrm{am}$ |
| Richmond - New Circle | 9 am -12 pm |
| Short - Jefferson | noon -6 pm |
| Broadway - Vine | 9 am $-n o o n$ |
| Martin Luther King - Short | noon -3 pm |
| High - Limestone | noon -3 pm |
| High - Mill | noon -3 pm |
| Nicholasville - Wilson Downing | noon -3 pm |
| Rose - Maxwell | $3 \mathrm{pm}-6 \mathrm{pm}$ |
| Nicholasville - Moore | noon -3 pm |

TABLE 6. SUMMARY OF CITATION DATA (FAYETTE COUNTY) (January 1993-October 1995)

| NUMBER OF CITATIONS |  |  |
| :---: | :---: | :---: |
| TIME PERIOD | TOTAL | SIGNAL - DISREGARD TRAFFIC CONTROL |
| January 1993 | 5,784 | 377 |
| February | 4,561 | 309 |
| March | 4,023 | 247 |
| April | 4,877 | 301 |
| May | 6,150 | 365 |
| June | 4,666 | 270 |
| July | 4,931 | 288 |
| August | 5,107 | 354 |
| September | 5,712 | 333 |
| October | 5,337 | 299 |
| November | 4,392 | 255 |
| December | 4,508 | 305 |
| January 1994 | 3,350 | 303 |
| February | 3,951 | 281 |
| March | 4,704 | 299 |
| April | 4,338 | 312 |
| May | 6,356 | 405 |
| June | 4,161 | 189 |
| July | 4,391 | 245 |
| August | 5,140 | 248 |
| September | 4,948 | 270 |
| October | 4,499 | 244 |
| November | 4,723 | 348 |
| December | 5,968 | 225 |
| January 1995 | 5,359 | 197 |
| February | 4,978 | 230 |
| March | 5,123 | 278 |
| April | 5,421 | 264 |
| May | 5,311 | 247 |
| June | 4,849 | 225 |
| July | 4,301 | 214 |
| August | 5,724 | 242 |
| September | 5,828 | 280 |
| October | 5,076 | 288 |
| November | 6,048 | 382 |
| December | 5,603 | 382 |
| January 1996 | 5,411 | 364 |
| February | 6,892 | 343 |
| March | 6,140 | 326 |
| April | 5,337 | 220 |
| May | 5,268 | 309 |
| June | 4,193 | 484 |
| July | 4,348 | 454 |
| August | 4,367 | 361 |
| September | 3,945 | 314 |
| October | 4,339 | 327 |

TABLE 7. INTERSECTIONS WTTH HIGHEST NUMBER OF RLR CITATIONS (1993-1995)

| INTERSECTION | STREET | NUMBER OF CITATIONS |
| :---: | :---: | :---: |
| Nicholasville - Reynolds | Nicholasville | 802 |
|  | Reynolds | 52 |
| Broadway - Main | Main | 258 |
|  | Broadway | 164 |
| Limestone - Rose | Limestone | 287 |
|  | Rose | 20 |
| Man O War - Alumni | Man O War | 150 |
|  | Alumni | 83 |
| Euclid - Woodland | Woodland | 136 |
|  | Euclid | 72 |
| New Circle - Russell Cave | Russell Cave | 163 |
|  | New Circle | 35 |
| Broadway - Vine | Broadway | 153 |
|  | Vine | 41 |
| New Circle - Liberty | New Circle | 149 |
|  |  | 39 |
| Rose -Vine | Rose | 89 |
|  | Vine | 83 |
| Man O War - Versailles | Versailles | 138 |
|  | Man O War | 19 |
| Man O War - Richmond | Richmond | 103 |
|  | Man O War | 46 |
| Newtown - Stanton | Newtown | 131 |
|  | Stanton | 17 |
| New Circle - Broadway | Broadway | 123 |
|  | New Circle | 11 |
| Broadway - High | Broadway | 88 |
|  | High | 37 |
| New Circle - Richmond | Richmond | 114 |
|  | New Circle | 5 |
| New Circle - Nicholasville | Nicholasville | 112 |
|  | New Circle | 3 |

TABLE 7. INTERSECTIONS WITH HIGHEST NUMBER OF RLR CITATIONS (1993-1995) (continued)

| INTERSECTION | STREET | NUMBER OF CITATIONS |
| :---: | :---: | :---: |
| New Circle - Woodhill | Woodhill | 99 |
|  | New Circle | 14 |
| Man O War - Tates Creek | Man O War | 74 |
|  | Tates Creek | 32 |
| Euclid - Limestone | Limestone | 58 |
|  | Euclid | 42 |
| Man O War - Nicholasville | Nicholasville | 67 |
|  | Man O War | 30 |
| New Circle - Bryan Station | Bryan Station | 71 |
|  | New Circle | 18 |
| Nicholasville - Moore | Nicholasville | 84 |
|  | Moore | 3 |
| New Circle - Palumbo | Palumbo | 59 |
|  | New Circle | 26 |

TABLE 8. CITATIONS AT INTERSECTIONS WITH HIGHEST NUMBER OF RLR ACCIDENTS (Before and During Campaign)

|  | NUMBER OF CITATIONS |  |
| :---: | :---: | :---: |
| INTERSECTION | AVERAGE PER YEAR JUNE - OCTOBER (1993-1995) | JUNE - OCTOBER 1996 |
| Nicholasville - New Circle | 13.7 | 12 |
| Nicholasville - Lowry | 2.3 | 17 |
| Broadway - Sixth | 4.0 | 12 |
| Third-Limestone | 3.3 | 2 |
| Nicholasville - Reynolds | 115.3 | 100 |
| Fourth - Upper | 0.3 | 0 |
| Richmond-New Circle | 16.0 | 13 |
| Short-Jefferson | 1.0 | 0 |
| Broadway - Vine | 20.0 | 19 |
| Martin Luther King - Short | 2.0 | 4 |
| Euclid - Ashland | 1.7 | 1 |
| High - Limestone | 2.7 | 3 |
| High - Mill | 0.3 | 1 |
| Martin Luther King - High | 1.0 | 4 |
| Nicholasville - Wilson Downing | 5.3 | 8 |
| Rose - Maxwell | 2.3 | 3 |
| Nicholasville - Moore | 13.0 | 6 |
| Rose - High | 3.7 | 6 |

TABLE 9. RED LIGHT VIOLATION RATES (Before and After Campaign)

| INTERSECTION | APPROACH | PERCENT CYCLES WITH RLR VIOLATIONS* |  |
| :---: | :---: | :---: | :---: |
|  |  | BEFORE | AFTEER |
| Nicholasville - New Circle (Inner Loop) | Southbound | 8 | 8 |
| Nicholasville - Lowery | Northbound Southbound | $\begin{array}{r} 14 \\ 7 \end{array}$ | $\begin{aligned} & 8 \\ & 7 \end{aligned}$ |
| Broadway - Sixth | Northbound | 3 | 3 |
| Third-Limestone | Northbound | 5 | 2 |
| Nicholasville - Reynolds | Southbound | 8 | 10 |
| Fourth - Upper | Westbound | 2 | 0 |
| Richmond - New Circle (Inner Loop) | Westbound | 24 | 10 |
| Short - Jefferson | Southbound | 4 | 1 |
| Broadway - Vine | Southbound | 10 | 6 |
| Martin Luther King - Short | Southbound | 2 | 3 |
| High - Limestone | Westbound | 8 | 4 |
| High - Mill | Westbound | 1 | 0 |
| Nicholasville - Wilson Downing | Southbound | 7 | 5 |
| Rose - Maxwell | Southbound | 2 | 1 |
| Nicholasville - Moore | Northbound | 6 | 7 |
| New Circle - Russell Cave | Westbound | 12 | 4 |

* The percentage of 100 cycles in which at least one vehicle proceeding straight through the intersection on the subject approach crossed the stop bar after the start of the red indication.

TABLE 10. COMPARISON OF CONVICTION RATES (Before and During Campaign)

| DISPOSITION | TIME PERIOD |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | JUNE-OCTOBER 1995 |  | JUNE-OCTOBER 1996 |  |
|  | NUMBER | PERCENT | NUMBER | PERCENT |
| Prepaid | 946 | 69.66 | 1,379 | 65.70 |
| Guilty | 238 | 17.52 | 322 | 15.34 |
| Merged | 69 | 5.08 | 70 | 3.33 |
| Failed to Appear | 33 | 2.43 | 100 | 4.76 |
| Amended Down | 28 | 2.06 | 24 | 1.14 |
| Pending | 11 | 0.81 | 162 | 7.72 |
| Grand Jury | 3 | 0.22 | 2 | 0.10 |
| Dismissed | 28 | 2.06 | 32 | 1.52 |
| Not Guilty | 2 | 0.15 | 7 | 0.33 |

## APPENDIX A

## SUPPORTERS OF CAMPAIGN

| COMPANY OR |  |
| :---: | :---: |
| ORGANIZATION | DESCRIPTION OF SUPPORT* |
| Ace Magazine | Full page article in July issue (\$800*). |
| Applebee's Restaurant | Advertised RLR stickers at Dine Around Downtown. |
| Ashland Park Neighborhood | Discussed program at neighborhood meeting and distributed bumper stickers. |
| BFI | Designed stands for signs (\$200*); discussed program at driving rodeo. |
| Bryant's Rent All | Advertised campaign message for 30 days. |
| Bluegrass Council 89 United Commercial Travelers | Donated \$1,000. |
| Bluegrass Towing | Donated vehicle for kick-off ( $\$ 200^{*}$ ); bumper stickers on all vehicles |
| Central Parking Garage | Displayed campaign signs for patrons at five garages. |
| Central Rock | Bumper stickers on vehicles; safety talk and video for employees. |
| Coca-Coca Bottling | Designed a campaign bumper sticker (\$800*). |
| Columbia Gas | Bumper stickers on vehicles; safety talk and video for employees. |
| Darryl's 1891 | Displayed campaign message on changeable message board; employees wore campaign button. |
| Dine-Around-Downtown | Distributed stickers and bumper stickers. |
| Division of Fire | Safety talk to employees; provided demonstration of use of "jaws of life" at kick off. |

Applebee's RestaurantDiscussed program at neighborhood meeting anddistributed bumper stickers.Designed stands for signs (\$200*); discussed program atdriving rodeo.Donated \$1,000.
89 United Commercial TravelersDonated vehicle for kick-off ( $\$ 200^{*}$ ); bumper stickers onall vehicles
Displayed campaign signs for patrons at five garages.Bumper stickers on vehicles; safety talk and video foremployees.Designed a campaign bumper sticker (\$800*).employees.

Displayed campaign message on changeable message board; employees wore campaign button.

Dine-Around-Downtown Distributed stickers and bumper stickers.
Division of Fire Safety talk to employees; provided demonstration of use of "jaws of life" at kick off.

# COMPANY OF 

## DESCRIPTION OF SUPPORT*

Division of Parks and Displayed campaign slogan at parks. Recreation.

Division of Police
Roll call training for all police; display in main lobby.
Division of Public
Designed video; press releases; media relations ( $\$ 4,000^{*}$ ). Information

Division of Traffic Engineering

Designed slogan signs; provided data collection; media relations ( $\$ 400$ ).

## Downtown Lexington Corporation <br> Article in newsletter; distributed campaign material to downtown businesses.

Dr. William Charash Speaker at kick off; participated in PSA video.
Eastern State Hospital Safety Fair at hospital for employees and patients.
Fast Signs Designed banner; donation (\$60).
Fayette County Schools Broadcasted RLR education video during summer (1,080 minutes of air time).

Fayette Mall
Provided area for two Safety Fairs; media relations.
Federal Express
Safety meeting and talk to all employees.
Federal Highway
Administration
Foam Design
Donated foam core boards (\$150*).
Great Harvest Bakery
Donated food for media PSA kick off (\$300).
GTE
Bumper stickers on vehicles; safety talk to all employees.

## DESCRIPTION OF SUPPORT*

Hands-On Originals Assistance with advertisements.
Harp Enterprises Donated labels (\$200).
Henry Clay High School Discussion about project idea. students

Kentucky American
Water Company
Bumper stickers on vehicles; safety talk and video to all employees; employees wore slogan button (\$25*).

UK Transportation
Assisted with pre- and post-survey management.
Center
Kentucky Utilities First business to assist in campaign; bumper stickers on vehicles; safety talk to employees.

KET-TV
Ten minute PSA segment (\$800*); news coverage.
Kids Mania at Heritage 7,000 people through exhibit; distributed 1,000 stickers. Hall

KISS - 96.9 FM Air time for PSAs.
Kroger
Safety fair at four stores; employees wore button ( $\$ 160^{*}$ ).
Lamar Advertising Co.
Assistance with advertisements.
Leestown Middle School Safety fair at school.
LexMark Advertisement of slogan sign at plant.
Lexington Chamber of Article in newsletter (\$165*). Commerce

Lexington
Articles in newspapers (\$17,960*).
Herald-Leader
COMPANY OR
ORGANIZATION DESCRIPTION OF SUPPORT*
Lexington Lions Club Safety meeting for all members.
Lynn Blue Print and Donation and design of boards ( $\$ 100^{*}$ ).
Supply Company
Mary Todd Elementary Distributed RLR posters.
M\&M Sanitation Safety talk and video to employees.
Margaret Kannensohn, Support of campaign.
County Attorney
Magee's Bakery Designed traffic signal cookies.
Mayor's Office Kick off preparation.
Mary Queen Church RLR information placed in bulletin.
Messer Construction Co. Safety talk and video to employees.
Neighborhood Assoc. Distribution of educational materials.
OneAlliance Assistance with advertisements.
Advertising Company
Papa John's Pizza Advertisement on pizza boxes.
PAX Christian Church RLR information placed in bulletin.
Plumbers Supply Co. Placed slogan sign at business.
Purdon Rental Donation of balloons for kick off (\$25*).
Republic Parking Placed slogan sign at business.
Garage
Safety Kleen Corp. Safety talk and video to employees.

| COMPANY OR <br> ORGANIZATION <br> $======-$ <br> Sayre School | DESCRIPTION OF SUPPORT* |
| :--- | :--- |

COMPANY OR
ORGANIZATION DESCRIPTION OF SUPPORT*
WEKU Radio Air time for PSAs.
WJMM Radio Air time for PSAs.
WKQQ Radio Air time for PSAs.
WKYT-TV Channel 27 Air time for PSAs.
WLAP Radio Air time for PSAs.
WLEX-TV Channel 18 Air time for PSAs.
WLRQ Radio Air time for PSAs.
WMCO Radio Air time for PSAs.
WMXL Radio Air time for PSAs.
WTVQ-TV Channel 36 Air time for PSAs.
WUKY Radio Air time for PSAs.
WVLK Radio Air time for PSAs.
WWXC Radio Air time for PSAs.
WXZZ Radio Air time for PSAs.
Three radio talk shows Air time (\$3,000*)

* The estimated value of the support.


## APPENDIX B

## MAIL SURVEY

# UNIVERSITY OF KENTUCKY TRANSPORTATION CENTER in cooperation with LEXINGTON DIVISION OF POLICE BUREAU OF TRAFFIC 

TRAFFIC SAFETY QUESTIONNAIRE

This survey of licensed drivers is being conducted for Lexington and will take only a few minutes of your time. Since a good response rate is essential for trustworthy results, we would very much appreciate your completing the questionnaire and returning it to the Kentucky Transportation Center. To insure anonymity, do NOT put your name on the form.

1. When you are driving, what traffic violations do you see other drivers committing? Check as many as you recall.
$\square$ Drunk or drugged driving

- Speeding
$\square$ Not stopping completely at stop signs
[ Illegal turns
$\square$ Tailgating/following too closely
$\square$ Failure to signal a turn
$\square$ Reckless (careless) driving
$\square$ Not stopping for a red light
$\square$ Failure to yield right-of-way
$\square$ Failure to stop at light when making right turn on red
$\square$ Passing illegally (on hill or curve, across double yellow line, etc.)
$\square$ Driving too slow
$\square$ Other:

2. How do YOU define running a red light?
$\square$ Entering an intersection on yellow but the light turns red while the car is still in the intersection
$\square$ Entering an intersection on red
$\square$ Other (specify):
3. How often do you see others run red lights?
$\square$ Every day
$\square$ A few times a week

- A few times a month
$\square$ Less than once a month

4. Have you ever seen the police ticket someone who has run a red light?
$\square$ Yes
$\square$ No
$\square$ Not sure -- I have seen someone ticketed near an intersection but I'm not sure why they were stopped
5. Have you ever run a red light as you described it?

- Yes, once
- Yes, more than once
$\square \quad$ No (skip to Question 7)

6. How did it happen? (check any factors involved in your running a red light)
$\square$ Couldn't stop in time
$\square$ Afraid car behind would hit me
$\square$ In a hurry
$\square$ No other cars around
$\square$ Not paying close enough attention

- Unfamiliar with area, didn't see light
- Distracted by someone in the car
$\square$ Other (specify):

7. Out of 100 drivers who run a red light in Lexington, how many do you think will actually be stopped and ticketed by the police?

- None
$\square$ 1-2
$\square$ 3-5
- 6-10
- 11-20
$\square$ More (specify):

8. Out of 100 instances where someone runs a red light in Lexington, how many do you think will result in a collision, with the car hitting another car, a pedestrian, or a cyclist?
$\square$ None1-2
$\square$ 3-5

- 6-10
- 11-20
$\square$ More (specify):

9. In how many of these cases do you think someone will be hurt?
$\square$ None
$\square$ 1-2
$\square$ 3-5

- 6-10
- 11-20
$\square$ More (specify):

10. Do you recall seeing or hearing any advertising about safe driving in the last five months? The advertising might have been on the radio, on television, in a newspaper, on a changeable message traffic board, or somewhere else.
$\square$ Yes
$\square$ No

- Not sure

11. (If Yes) Please describe what you saw or heard.
12. Two ads or public service announcements are described briefly below. Please indicate whether you recall seeing or hearing any of them.
a. "He Took a Chance"--This ad shows an ordinary, responsible man who took a chance that he shouldn't have at an intersection and got in a crash because someone else was taking a chance, too. The slogan is "The light is red for a reason. So Stop."
$\square$ Yes, I remember
$\square$ No, I don't
$\square$ I'm not sure
b. "We're Putting a Stop to Red Light Runners for Good -- Your Good" -This ad shows a police officer talking about the crashes he has seen. He says they are going to be watching out for red light runners.

- Yes, I remember this
- No, I don't
$\square$ I'm not sure

13. Do you recall seeing or hearing ads or information on red light running anywhere else in the last five months?YesNo
Not sure
14. (If Yes) Please indicate where the ads or information appeared. Check all that apply.
$\square$ Television
$\square$ Magazine ad
$\square$ Radio ad
$\square$ Changeable Message Traffic Board

- Newspaper article
$\square$ Magazine article
$\square$ Newspaper ad
$\square$ Flier or direct mail insert
$\square$ Other (specify):

15. Please note anything you happen to remember about any of these ads or information:
16. Have you changed your driving in any way as a result of seeing or hearing any of these ads?

- Yes, definitely
- Probably (skip to Question 19)
$\square$ Probably not (skip to Question 19)
$\square$ No (skip to Question 19)

17. (If Yes) In what particular way have you changed something about your driving?
$\square$ I stop for red lights now
$\square$ I stop for yellow lights now
$\square$ Other (specify):
18. Which ad, if any, made you change your driving?
$\square$ "We're Putting a Stop to Red Light Runners"
[. "He Took a Chance/ "The Light is Red for a Reason. So Stop"
$\square$ "In the Bluegrass, Red Means Stop"Other ads

- None in particular

Finally, we need some background information for analysis purposes. A reminder: since your name does not appear on the questionnaire, the answers cannot be identified as yours.
19. Your age group:

- 16-25
- 26-45
$\square \quad 46-60$
$\square$ over 60

20. Your sex:

- Male

Female
21. Your occupation:
22. Last grade you completed in school:

- Less than high school
$\square$ Some high school
$\square$ High school graduate
$\square$ Some college
$\square$ College degree
$\square$ Post-graduate

23. How often do you wear a seat belt when you drive?
$\square$ Always

- Most of the time
$\square$ Less than half the time
- Never

24. About how many miles per year do you drive?

- Less than 10,000
- 10,000 to 15,000

15,000 to 20,000
$\square$ More than 20,000
25. Have you ever gotten a ticket for a moving violation?
$\square$ No
$\square$ Yes, once
$\square$ A few times
$\square$ Many times
26. Have you ever taken a driver education course?
$\square$ No
$\square$ Yes

PLEASE FOLD THE COMPLETED QUESTIONNAIRE IN HALF AND STAPLE. RETURN THROUGH INTER-DEPARTMENTAL MAIL, RETURN LABEL IS ON THE BACK OF QUESTIONNAIRE. PLEASE SEND BACK AS SOON AS POSSIBLE.


[^0]:    * The before survey was conducted in April 1996 with the after survey in November 1996.

