SGRTM LIMRRY

Prepared For
Southern Celifornia Rapid Transit District

\author{

- SUMMARY REPORT - \\ 1981 SERVICE AWARENESS AND \\ TRANSIT RIDERSHIP STUDY
}

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## INTRODUCTION


#### Abstract

SCRTD conducted its first "benchmark" survey of Los Angeles County residents three yeers ego, in the Spring of 1978. Thet study wes designed to collect informetion ebout besic questions such es awereness end üse of public transit, ettitudes towerd SCRTD end its services, demographic cherecteristics of riders end non-riders, exposure of respondents to verious print and broedcast medie, end image profilies of public versus privete trensportetion systems.


Most of the besic descriptive end demographic information callected in 1978 wes repeated in this survey to ellow meaningful comperisons of results between the two studies. The emphesis in the current reseerch however, hes been shifted eway from the more theoreticel end exploretory neture of the benchmark study, to providing prectical descriptive informetion in support of the District's energy emergency preparedness program.

This report summarizes the major results of the survey, primerily in terms of the important differences which were found between current RTD riders end non-riders, and how eech of these groüps compares with current eutomobile commuters who were identified as "susceptible" to ride shiering or public trensit.

Additional anelysis of the survey findings which is releted to differences between the mejor SCRTD geagrephic sectors of the county, end comparisons between "treṇsit dependent" end non-transit dependent respondents in eech eree, will be presented in a supplementel report.

This section of the report summerizes the major findings of the 1981 SCRTD Ridership Survey. Survey results discussed in this section include:

Trensit User Groups 1978-1981
User Group Demogrephics
Public Transit Trip Purposes
Commuter Trede-offs Between Gasoline Price and Scercity
Trensit Rider Trada-offs Between Fare Increases and Service Reductions
Attitude Profiles About RTD Serivice end Public Transit
Attitudes Toward RTD Drivers
Awereness of RTD Services
Medịa Exposure By User Groups

A more complete discussion of each of these ereas, and of the complete survey results can be found in the following section.

## Transit User Groups

Respondents were grouped iṇto four cetegories besed on their frequency of public trensit use over the pest year. Heevy transit users were defined as those riding the bus 20 times or more during the pest month; moderete users 4 to 19 times; and light users 1 to 3 times during the past month, or one or more times during the past yeer.

# Fiqure I <br> Transit User Grouns 

Table Base: Total Respondents
Parcent

Heevy Users


Moderate Users

11
$\square$
10

Light Users


Non-Users


1978
$\square 1981$

As shown in Figure $I$, there was no significant difference in the number of respondents classified into each of the four user groups between the survey conducted in 1978 and the Spring of 1981.

## Classificetion of "Transit Dependents"

In the 1978 survey it wes found that a high proportion of heavy and moderetely heavy users of public trensit did not heve any reguler access to privete transportation, end thus, hed no reel option concerning their trips to or from wark or other destinetions within the county. In the current survey, the question ebout personal trensportetion aveilebility was modified somewhat to obtain more eccurate information about this important populetion sub-group.

A supplementel semple of trensit dependent persons wes also selected from eech of the RTD service sectors, and will be reported on in a subsequent special report.

Figure II
Transi.t Dependent Groups
Table Bese: Total Respondents
Percent

Haỳe Use of Automobile $\square$

All of the time $\square$
Only some of the time
16


| Non-Users |  |
| :---: | :---: |
|  | $\cdot$ |
| $\square$ | Trensit Users |

Of major interest here is the fact that e very high proportion of trensit users cleim to heve privete trensportation availeble to them if they chose to use it. Of course, e certein number of these individuels commute regularly by automabile, end use public trensit only occesionally.

Trade -off of Ges Price Versus Scercity

The sub-group of respondents who said thet they regularly commute to and from school or business were esked to consider e situetion where verious combinetions of events might come to pess involving the price of gesoline end its reletive scercity. For the purposes of this question, the prices of gesoline were set et $\$ 1.50, \$ 2.50$, end $\$ 3.50$, end combined with levels of scercity ranging from the imposition of en odd/even purchese plen, ges retioning with 15 gellons per weak, end e government prohibition on the use of eech eutomabile for one dey eech week.

The resulting nine combinetions of price end scercity were ranked, end respondents were then asked if they might seriously consider aither ride shering or the use of public transit in both the least severe end most severe ceses.

Besed on the trede-off question, respondents were clessified into three groups: "herd care" eutomabile commuters who would not consider ride shering or public transit no metter how expensive or scarce gesoline might become; e "moderate" groüp thet might consider ride shering or public trensit under some, but not ell combinetions of price and scercity; and e "transit susceptible" group thet were willing to consider ride shering end public trensit even under the leest severe combinetions of price end scercity. The proportion of automabile commuters felling into eech group is shown in the following teble.

## Fiqura III

## Transit Susceptibla Groups

Table Base: Automobile Commüters


Susceptible to transit use

45

Could consider transit use

"Hard corei" aüto commuters 25

Additional analysis of tha classification information for these groups shows that the transit susceptibles tend to be more likely to be found in the South Central RTD sector, and less likely to be found in the San Gabriel Valley sector; are aboüt one and a half times as likely to belong to either the Black or Hispanic ethnic groups; have an averaga age that tends to be about six years less than the sample as a whole, ( 36 yeers versus 42 years]; are more likely to be employed in the general office, skilled, semi-skilled, service worker, or technical categories; have a median income approximately $\$ 5,600$ less than the $\$ 28,650$ median for regular automobile commuters; and are somewhat more likely to spend more than two hours a day wetching television, (54\% versus $46 \%$, and listening to FM and AM radio.

## Relative Importance of Price and Scarcity

Among those "modarates" that might be convinced to adopt ride sharing or public trensit, the combined avarege renking of the threa levels of price and scercity are shown in the following table.

Figure IV
Ranking of Gasoline Prica Versus Scarcity

Price / Scercity Level

$\$ 1.50$

2.4

Odd/aven plan

3.8
$\$ 2.50$


Gas rationing


Restricted üse

7.5

Table Besse: Automobile Commuters

Considered as relative messures of commuter dissetisfaction; the avarege ratings shown above suggest that a gasoline price of $\mathbf{\$ 2 . 5 0}$ would be $20 \%$ worse then the return of oddeieven ellocetions, and et $\$ 3.50$ per gellon would be $36 \%$ worse than either gesoline rationing or restricting the use of motor vehicles.

In practical terms, the group now opposed to, but open to being persuaded to adopt ride sharing ór public transit, would rather see the imposition of an oddeiven plan than gasoline at $\$ 2.50$ per gallon. For more sev̈ere situations that could not be handled by odd/even, gas rationing and restrictions on automobile usage are rated about the same, with both being considered lese severe than gasoline at $\$ \mathbf{\$ 0}$ per gallon.

Besed on these findings, taking steps such as imposing an additional tax that would increese the price of gasoline from $\$ 1.50$ to $\$ 2.50$ would be likely to have almost twice the effect on the public's transit usage and ride sharing behavior ae imposing an odd/even plen, and increasing the price of gasoline to $\$ 3.50$ would heve more effect than either gasoline rationing or imposing restrictions on automobile trevel.

This section presents the major demographic characteristics of transit users and non-users including RTD service sector, athnic group, age, and income.

Fiqure IV
RTD Service Sector

| Table Base: Total Respondents | Percent | - |
| :---: | :---: | :---: |
| 1. San Fernando Valley/ North |  |  |
| 2. North Central/ Glendale | ${ }_{4}{ }^{7}$ |  |
| 3. San Gabriel Valley/ East |  |  |
| 4. West Los Angeles : |  |  |
| 5. South Central/ Compton |  <br> 16 |  |
| 6. East Central/East L.A. | $\begin{aligned} & 5 \\ & 5 \end{aligned}$ |  |
| 7. South Bey/ Torrance | 111 |  |
| 8. Long Beach/ Lakewood |  |  |
| 9̣. Mid Cities/ Norwalk | $\square 10$ | Non-Users <br> Transit Users |

As shown above, trensit users tend to be more heavily represented in tha West Los Angeles, and South Central sectors, while non-users are more concentrated in the San Fernando and San Gabriel Valleys.


## Figure IV - Cont. <br> Respondent Ethnic. Groüp

Table Base: Total Respondents


| Caucesian |  | \$3, ${ }_{57} 72$ |
| :---: | :---: | :---: |
|  |  |  |
| Black |  |  |
| Spanish | $\square$ |  |
| Asian | $\begin{aligned} & 2 \\ & 2 \end{aligned}$ |  |
| Other groups | $\begin{array}{r} \text { 曑2 } \\ \square 2 \end{array}$ |  |


| Non-Users |  |
| :--- | :--- |
| $\square$ | Trensit Úsers |

Non-transit users are more prevelent among Ceucasiens, and trensit users among Blecks end Hispanics.

## Figure $V$

## User Demographics - Cont.



Age

Under 20


20 to 39


40 to 59


60 and over


Income

Under \$5, 00 3
7
\$5,000 to $\$ 9,999$


- \$10,000 to $\$ 24,999$

$\$ 25,000$ and over



## Public Transit Trip Purposes

Section IV of the questionnoire inclüded a nümber of questions on the purposes of trips taken in the past seven days by automobile and public transit, the total number of trips taken. The percent of public transit users mentioning each major trip pürpose is shown in the following teble.

## Figure VI

Pubiic Transit Trip Purposes

Table Base: Used Public Transit.In Past 7 Days


To Work or Business
 34

## To Shopping

 22

To Doctor/Dentist
15
To Dther Destinations  ..... 13
To Friends/Visiting ..... 12
To School8

## Trade -off of Increased Fare Varsus Decreased Service

Respondents who mentioned having taken a public transit bus within the past seven deys were asked a series of questions to establish their willingness to "trede-off" fare incraases of 10 to 30 cents against loss of evening and weekend service, or reductions in tha frequency of service from 10 to 30 minutes.

The table below summarizes the results of these questions for all respondents in terms of tha averege amount they would be willing to pay rather than suffer the corresponding service reduction. The larger the amount, the less acceptable the alternativa reduction.

Fiqure VIII
Fare. / Sarvice Level Trade-Offs


30 min. more betwean buses


Eliminate weekand sarvice


Eliminate eveñing serìica


20 min. more between büses

.134

10 min . more between buses
 .109

As shown above, extending tha time between buses by 30 minutes was the least attractive alternative, with riders willing to pay an average of $\$ .151$ to avoid it. Weekend servica ranked second, followed by evening service, end 20 minutes more waiting time in third. 10 minutes more time betwaen buses ranked last.

## Attitude Statements

Section III of the questionnaire included forty transit-related attitude statements to which respondents were asked to indicate their opinions on a six-poiṇt rating scale ranging from "strongly agree" to "strongly disagres". Results for the four statements that drew the strongest response, either positive or negative, and which showed the greatest difference between riders and non-riders are shown in the table below.

## Figure IX

## Attit.tude Profiles



Table Base: Total Respondents

Taking the bus instead of driving helps $\square$ 18 to reduce air pollution.

It just takes too long to get anywhere


24 by bus.

The "Oiamond Lanes" for buses are a good idea because they get people
 24 out of their smog producing cars.

If gasoline were $\$ 2.00$ per gallon, I would take public transit to work.


25

$\square$ Users

## Atti.tudes Toward RTD Drivers

Six of the forty attitude stetements had to do specifically with public attitudes toward RTD bus drivers. The results of these questions are summarized below in terms of the percentages of respondents who strongly agreed with each statement.

## Figure IX - Cönt.

## Attitudes Towerd RTD Drivers

Most RTD drivers are good $\square$ 15 drivers.

...:are friendly towerd their12 passengers.
....are courteous to their pessengers.

....are knowledgeable and able $\square$ 10
to give accurate information..
....ere able to handle almost $\square$ 5
eny trouble or problem.



I feel nervous when riding RTD buses beceuse the drivers do 5 11

Based on the results shown in Figure IX, the major concern among both riders and non-riders is the "ability of drivars to handla almost any trouble or problems that might come up on their buses." While $27 \%$ of respondents either strongly or very strongly agread with this, $24 \%$ strongly or very stringly disagread.

In Section $V$ of the questionneire, respondents were asked to check one of three responses for eech of thirteen SCRTD services: "Never Heard Of This Service", "Heerd About It But Never Used It", and "I Have Used This Service". The percentage of respondents who either heard of or never used, or who have used eech service is shown below.

## Figure X <br> Awereness Of Transit Services



Table Base: Total Respondents

| Monthly Pass |  |
| :---: | :---: |
| Service to Special Attrections | \% |
| Free RTD Timetables |  |
| Telephone Information Service |  |
| Bus Stop Information Signs |  |
| Downtown L.A. Minibus Service |  |
| Park and Ride Service |  |
| As shown above, those SCRTD most awere of were monthly pass timetables, the telephone infor downtown L.A. minibus service, | services which L.A. County residents were s, service to special ettractions, free RTD ation service, bus stop informetion signs, the perk and ride service. |

## Media Exposüre

Section $V$ of the questionneire included questions on respondent exposure to various print and broadcast media. The table below shows the percent of respondents who reported spending two or more hours each day on the diffèrent media.


Figure XI
Media Exposure
Table Base: Total Respondents


Listening to AM Radio


Reading Newspapers


9
5
9

As shown above, trensit users were somewhat more likely to be heavily exposed to all media, but most strongly to AM radio.

## SURVEY LIMITATIONS

The informetion presented in this report is based on a rendom semple of the popületion of Los Angeles County who heve mede at leest two trips, by either personel or public transit, during the previous seven deys. As is the cese with anything less than e full census, ell percenteges end other figures presented heve a certein amount of statisticel error essociated with them. Minor differences of only e few percentege points between the results for one populetion group versus enother should not be considered stetisticelly significant.

For those interested in epplying e stetisticel "yerdstick" to the findings, with a totel semple size of 1,134 respondents, e cheracteristic reported by $50 \%$ of the semple should not vary by more then $\pm 3 \%$ from the true populetion velue (or from $47 \%$ to $53 \%$ ], with e probebility of about 19 to 1. This renge declines to ebout $\pm 2 \%$ when the obteined percentegee ere ferther eway from the middie velues, i.e.,greeter then 80\% or less then $20 \%$ 。

There ere many sources of potentiel verietion, or bies, in the results of all public apinion surveys. It is recommended thet the reader consider the results reported here es the "best estimetea" eveileble of the true situation in the RTD's Los Angeles County service areas, not es ebsolute mesesurements of the total populetion of the county.

The broed objective of this second Service Awereness and Trensit Ridership Study wae to collect information to be used by the District in support of its energy emergency preperednese program. In view of this requirement, the mejor erees covered in the survey were es follows.

1. Determine whet changes, if eny, heve occurred over the peet two yeers in the ewereness and use of RTD services.
2. Determine the extent to which eny observed changes in service ewerenees or ues are releted to potentiel fuel shorteges, increased costs of privete trensportetion, and similer direct consequences of the Mey, 1979 energy situetion.

Specific subject ereas reteined from the 1978 Service Awarenese Study, and new erees added to the 1981 Ridership Survey were es follows.

## Sactions Reteined from 197.8. Surỳ̈y

Household Classificetion Informetion This section includes questions on the number of persons ege 12 or more living et home, number of motor vehicles, number of persons with California drivers licanees; number of full and pert time amployed persons in the household, atudent femily members who use public traneit, telephone ownership, home ownership or rentel, number of persons living et home by age group; end lenguege normelly spaken in the home.

Section I - Questions in this section included: Number of trips ewey from home in the past seven days, number of these trips taken by automobile and by public transit buses, and number of public trensit trips teken during the peet month; end yeer.

Section III - "Psychographic" items designed to describe rider and non-rider attitudas toward various aspects of public transportetion.

Section V - Service Awareness and Üse, revised to reflect cḥenges since 1978, and ratings of public attitudes toward SCRTD as compared to other public bodies such as CALTRANS, the MWD, and the DWP.

Section VI - Readership of verious locel newspapers and magazines, end amount of exposure to broadcest and print media.

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Section VII - Personel and Household Classification Information including sex, marital status, income, ege, use of personal transportation, car pooling, occupetion, and educetion.
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## New Questions Added to thie 1981 Suryey

> Trade-offs among frequent automabile commuters involving the price of gasoline, its availability, and the probebility of switching to ride shering or public trensit.

Trade-offs which current riders are willing to make between eech of three levels of beee fare increases, service frequency, and elimination of evening or weekend serïice.

The extent to which energy related transit availability mey be a determining fector in the purchese of a new home, the purchese of an automobile, and enterteinment or recreation choices.

Whet cheracteristics of SCRTD service have kept new riders (since May 1979] with the bus system, and turned others away.


#### Abstract

A totel of 1,134 personel, in-home interviews end self-administered meil return questionneires were completed in e randomly selected semple of households, dịstributed throughout Los Angeles Coünty in proportion to populetion. Tö quelify for interviewing, respondents had to be e resident of the county, 12 yeers of age or older, and heve mede et leest two round trips greeter than welking distance ewey from home during the pest week.


As with the 1978 survey, both English and Spenish versions of the questionnaire were used, end respondents were offered en incentive of $\$ 1.00$ for eech edditionel questionneire filled-in end returned by mail by other household members not present et the time of the personial interiview. A supplementel semple of 320 trensit dependent persons wes also selected from each of the RTD service sectors, end will be reported on in a subsequent speciel report.

Field dete collection wes completed between Jenuery 15th end Merch 5th, 1981. All personel end meil raturned questionneires were edited end coded by Data Sciences before being keypunched into IBM cerds end submitted to computer anelysis.

Two sets of fully interpreted cross-tebuletions of ell survey findings heve been provided to the SCRTD Merketing Reseerch steff. A copy of the questionneire used is included in the Appendix. A copy of the Spenish lenguege version is availeble from the Marketing Research Depertment if desired.

## DETAILED FINDINGS

The detailed survey results presented in this section are besed on the totel semple of 1,134 completed personel and mail return questionneires, weighted to equelly represent male end femele respondents.

## SAMPLE CHARACTERISTICS

## RTID Sactors

The proportion of interviews conducted in aech of the nine designated RTD Service Sectors shown on the map on the following pege is as follows. The proportions of public transit users and non-users ere shown to the right.

|  | Transit Use |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\frac{\text { Total }}{\%}$ | Non- <br> Users Users |  | Targe Group |
|  |  | \% | \% | \% |
| RTD Sector |  |  |  |  |
| 1. San Fernando Valley/ North | 17 | 19 | 10 | 20 |
| 2. North Central/ Glendale | 6 | 7 | 4 | 7 |
| 3. Sen Gebriel Velley/ East | 16 | 19 | 11 | 8 |
| 4. West Los Angeles | 22 | 15 | 32 | 19 |
| 5. South Centrel/ Compton | 11 | 7 | 16 | 20 |
| 6. Eest Centrel/Eest L.A. | 5 | 5 | 5 | 4 |
| 7. South Bay/ Torrance | 10 | 11 | 10 | 11 |
| 8. Long Beech/ Lekewiod | 7 | 6 | 9 | 7 |
| 9. Mid Cities/ Norwelk | 8 | 10 | 4 | 0 |

The "Target Group" referred to on the previoùs and following tables refers to those current eutomobile commuters who were found to be susceptible to adopting either ride sharing or public transit in the event that gasoline either becomes more expensive or less freely evailable.

## Ethnic Composition

Approximately two-thirds (66\%) of those interviewed for this study were Caucesian, $14 \%$ were Black, $16 \%$ Spenish origin, $2 \%$ Asien, and $2 \%$ other ethric groups. The proportions of each group falling into the transit user and non-user groups were as follows.

|  | Transit Use |  |
| :--- | :--- | :--- |
|  | Non- |  |
|  | Target |  |
| Totel | Users Users | Group |

\%
\% \%
\%
Respondent Rece

| Caucesian | 66 | 72 | 57 | 54 |
| :--- | :---: | :---: | :---: | :---: |
| Bleck | 14 | 11 | 18 | 17 |
| Spenish | 16 | 13 | 21 | 23 |
| Asian | 2 | 2 | 2 | 2 |
| Othier groüps | 2 | 2 | 2 | 4 |

As shown ebove, non-transit users are more concentrated among Caucasians, and trensit users among Blecks and Hispenics. From the stendpoint of recial composition, the target group almost exectly resembles the current rider populetion.

## HOUSEHOLD CHARACTERISTICS

## Number of Persons Age 12 or Over Living at Home

|  | Trensit Use |  |  |
| :---: | :---: | :---: | :---: |
|  | Total | Non- <br> Users Users | Target Group |
|  | Mn | $\mathrm{Mn} \quad \mathrm{Mn}$ | Mn |
| Medien \# Persons | 2.3 | 2.32 .3 | 2.4 |

The medien household size for the semple es a whole wes 2.3 , with no major differences noted es a function of public transit usage.

Median household size wes generally lerger among Spenish origin houssholds, et 2.8 , than for the other ethnic groups.

Household size elso generelly increases with income, from a low medien of 2.1-among those in the lowest income cetegory, to a high of 2.7 among those with annuel incomes of $\$ 20,000$ per yeer or more.

Nümber of Motor Vehicles in Working Condition

The medien number of motor vehicles in working condition per household was 1.8 , with about $7 \%$ of the households reporting no vehicles owned by househoid members.

About one quarter of the households [24\%], where the respondent is a 'heevy' user of public trensit report not having eny vehicles in working condition.

## Number of Parsons in Household Haying a Celifornia Drivera-License

Amoing the sample es e whole, ebout one in twenty households [5\%] reported not having e licensed driver. The medien number wies 1.9.

Among 'heavy' transit user households, ebout one in five [20\%], reported heving no licensed drivers. The comparable figiure among non-users was $3 \%$.

Number of People in Hoüsehold Who Are Full- or Part-Time Students

Transit Use

Non- Terget
Total Users Users Group.
\% \% \% \%

| Households With Students | 36 | 36 | 39 | 56 |
| :--- | :--- | :--- | :--- | :--- |
| Without Students | 64 | 64 | 61 | 44 |

About two out of three ( $64 \%$ ) of all households reported that they have no full- or pert-time students ege 12 or more living et home.

Household Members Emploved Full- Or Part-Time


About three of four hoüseholds (75\%) reported at leest one member employed full time outside of the home. About one in five (22\%) reported at leest one pereon employed part-time: The net proportion of hoüseholds with any person employed wes 79\%.

Full-time employment increeses with family income from elow of 23\% among those with incomes of less than $\$ 5000$, tio a high of $96 \%$ among those with family incomes of $\$ 20000$ or more.

There did not eppear to be any coneistent relationship between levels of ridership and either full- or pert-time employment. However, only 23\% of non-rider households had no person employed full-time comparied to 29\% of rider households.

## Children Under 12 Who Frequently Ride Public Trensit Euses

Transit Use

|  | Non- <br> Total <br> Users Users | Target <br> Group |  |
| :---: | :---: | :---: | :---: |
| Children Using Public Transit | $\%$ | $\%$ | $\%$ |

Approximetely one out of ten households (9\%) report having any children under age 12 who frequently ride public transit buses.

This percentege is almost twice es high among trensit user households at $13 \%$ as it is emong non-user households et $7 \%$.

By RTD service area, the incidence of children riding the bus is higheet in the Eaet Central end South Central sectors at 21\% and 12\% respectively. Lowest incidence wes in the Mid-Cities, South Gay, and San Fernando Valley sectors at from 5\% to 7\%.

## Households With a Teleghone

More then nineteen of twenty households ị Los Angeles County report heving e telephonie (96\%). Although those clessified es 'heavy' users of public trensit hed e somewhet lower incidence of telephone ownership then averege, at $90 \%$, the difference wes not significent.

## Home Ownership

Almost two of three respondents ( $61 \%$ ) indicated that they own their home. Those clessified es non-users of public transit were more likely to own their homes at 69\%, than were trensit users et 51\%. Generelly, ridership declines as home ownership increases from a low of $43 \%$ ownership among 'heevy' users; to a high of 55\% among 'light' usere.

## Family Composition

The following table shows the femily compoeition for the total semple of 1,134 complated interviaws.

## Total

\%

## Composition

Children Under $5 \quad 20$
Children 6 to 1121

Childran 12 to 1415
Children 15 to 1716

Adults 18 and over 100
Adults 65 and over 21


Section I of the questionneire included a series of questions about the number of trips taken over the pest week, month, and year using both personel and public transportation, a saries of questions eboüt past and present transit üse, end a qüestion on ressons for no longer using public trensit.

## Number Df Trips Away From Hane Within the Past Weak



The medien number of trips away from home during the pest weak among all respondents wes 6.9

In general, non-trensit users tended to teke more trips than did transit users, with the median numbers of trips being 7.0 end 6.6 respectîvely.

Among all respondente, 35\% reported taking ten or more trips awey from home in the past seven deys. Among those with personel trensportetion available, 38\% took tien or more trips, compared to only 14\% among those defined as trensit dependent.

As related to rece, 37\% of Caucasians reported ten or more trips in the pest week compered to $34 \%$ of Blacks, $30 \%$ of Hispanics, and $24 \%$ of others.

## Irevel Away From Home By Personal Transportation

In general, the median number of trips awey from hame using personel transportation increeses with income from 2.8 per week for the lowest income group, to 7.3 for the highest. Trevel by automobile is also most frequent within the 30 to 49 yeer old age groups, end more frequent among males then femeles.

Even heavy users of public trensit reported a median of 1.4 trips by automobile or other personel trensportation in the pest weak, end those clessified es "trensit dependent" reported a medien of 2.1 trips

## Trevel Away From Home By Public Transit Buses

Of the totel semple, $16 \%$ reported teking one or more trips by public trensit buses within the pest wesk.

There is e strong negative reletionship between income end the use of public trensit. $41 \%$ of those with incomes of $\$ 5,000$ or leas used public trensit within the pest weak, compered to only $9 \%$ of those with ennuel femily incomes of $\$ 20,000$ or mare. Public trensportation use is elso comperetively higher among those under 20 years of ege, and those ege 62 or over.

In terms of geogrephic aree, public trensportetion usege wes lowest in the Mid-Cities, Sen Fernendo Valley, North Centrel, South Bey and San Gabriel Velley sectors. Usage wes highest in West Las Angeles, South Centrel, Eest Centrel, and Long Beach.

The incidence of use of both personel end public trensit wes reletively low, with only 3\% reparting such trips in the pest weak.

## Classification of Raspondents. Into. Ridership Groups

Respondents were grouped into four categorias based besed on their frequency of public trensit uee over the pest year. Heavy transit users were defined ae thoee riding the bus 20 timee or more during the pest month; moderete users 4 to 19 times; and light users less than 3 times during the pest manth, but et least once during the past yeer.

The distribution of the total sample into these groups wes as follows.

$$
\text { Trensit User Group } \underline{\text { q }}
$$

Heavy users 7.5
Moderate users 10.3
Light users $\quad 23.1$
Non-users 59.1

Trensit üse, as defined by these groups, wes negetively related to income, renging from a hïgh of $15 \%$ heavy users emang the low income, down to $3 \%$ emong those with incomes of $\$ 20,000$ or more annuelly.

22\% of respondents under 20 yeers old, aṇd $8 \%$ of thoee age 62 and over ware classified as heavy usars. Heavy use of public transit was lowest in the 40 to 49 year old ege group at $2 \%$.

## Reasons for Starting Then Stoping Public Transit Use

Respondents were asked a series of questions designed to determine if they may heve started and then stopped riding public transit buses within the three year period from January 1978 through the time of the interview. Those who had started then stopped were asked for their reasons.

A total of 21\% of the respondents indicated that they had used public transit bus service, on a regular basis, within the past three years. Of these, almost one-half [48\%] started more then thres years ago, and 12\% started less than a year ago.

Among those using public transit within the past three years, exactly one-half (50\%] said that they are still using it. Among the 50\% who started then stopped, 43\% stayed with public transit more than a year, 19\% six months to a year, and $38 \%$ less than six months.

The majority of raasons given for no longer using public transit were not related to any judgements about public trensit itself, but to other circumstances. For example, $44 \%$ said they stapped riding because they either bought or now have the use of a car, $26 \%$ because they changed jobs, 13\% because they had a car repaired, and $5 \%$ because they now get a ride from someone else.

Among those who started then stopped using public trensit within the past three years the only transit related reasons for starting and then stopping were: "Slow/inconvenient schedule" [17\%], and "Poor routing" (8\%). Both of these responses were more often made by persons currently classified as light transit users.

## Postponement or Cancelletion of Automabile Trips

Among the totel semple of 1,134 respondents, almost one-third (31\%) claimed thet they have poetponed or cenceled one or more trips aroünd Southern California for recreation or entertainment because of the high cost of gesoline. Those most likely to heve canceled trips are in the 30 to 49 yeer old age group, and those with incomes in the $\$ 10,000$ to $\$ 20,000$ renge.

Of those postponing or canceling tripe, about a third [31\%] said thet they hed considered using public trensit for these trips. of this groüp, ebout one-querter, (26\%) actually used public treneit for one or more trips postponed or cenceled because of the high cost of gesoline.

In summery of the ebove, about 10\% of the respondents claimed to have postponed or canceled a trip due to the high cost of gasoline, and also considered using public treñit. About one-fourth of these, or approximately $21 / 2 \%$ of all respondents, ectuelly substituted public trensit for a trip thet might have otherwise been poetponed or canceled.

## Aütomabile Pürchase

In totel, about one out of five respondents (20\%] seid thet they had purchesed en automobile within the psst twelve monthe. An edditionel 13\% eaid thet they hed considered en automobile purchase.

When asked how importent the cost of gaeoline wes to them in their decision on whether or not to buy a cer, one-helf (50\%) seid that it was "very importent". Women scored higher on this then men et $57 \%$ versus $44 \%$.

On the question of whsther or not the prics of gasoline was importent in their decision on whet kind of car to buy, $57 \%$ said thet it was very importent. Agein, women indicated greater concern at 64\% campared to $51 \%$ for men.

## Residentie ( Mobility and Home Purchase

In total, about 5\% of the respondents reported buying e new home in Los Angeles County within the past 12 months. About $14 \%$ indicated that thay had considered buying or moving to a new home or apartment.

Of those buying or considering buying, about one of five [21\%] said that the availability of convenient public trensportation was "very importent" to them in their decîsion aboút whether to büy or move to a particular home. The population sub-groups mast often associated with this response were those ege 62 end over, and those in the under $\$ 5,000$ income group

Transit Use

|  | Total | NonUsers | Users | Target Group |
| :---: | :---: | :---: | :---: | :---: |
|  | \% | \% | \% | \% |
| Bought Or Considered Buying A House | 19 | 18 | 20 | 19 |
| Didn't Consider <br> Public Trensportetion | 49 | 59 | 36 | 40 |
| Considered It <br> Somewhat Important | 30 | 28 | 31 | 38 |
| Considered It Very Important | 21 | 13 | 33 | 22 |

Almost one-helf of all respondents who boüght or considered buying homes did NOT consider the availability of convenient public transportation as a pert of their decision ebout whether to move to or buy a particular home.

Respondents were asked if they regulerly commute from their homas to school or a place of business or employment three or more days eech weak. 54\% of those responding enswered "yes", end were asked e series of edditional questions concerning where [which RTD sectors] they commute to, what mode of trensportetion they use; and their opinion of various actions that might be taken by government in the event of enother severe gesoline shortege.

Those respondents who mentioned commuting regularly by automobile were asked to rete various actions they might take personally in a gesoline shortage. Those who were interviewed in person were also edministered e trade-off question on their probeble response to verious combinations of gesoline prices from $\$ 1.50$ to $\$ 3.00$ per gellon, and degrees of scarcity from a return to odd/even purchese days to government prohibiting use of each vehicle for one day a waek.

## Regular Commuters

In total, 54\% of respondents indiceted thet they regularly commute three days a weak or more between home and school, employment, or plece of business.

Reguler commuting was more often reported by men [68\%] than by women (41\%). Higher levels of commuting were elso reported by respondents under age 30, and among those with incomes ebove $\$ 10,000$ per yeer.

## Arees. Commuted To and From

Although the mejority of commuting wes done within the sectors where respondents live, the major commuting destinetions in Los Angeles County were the South Central sector, West Los Angeles, the San Fernando Velley, end the South Bay sector.

## Kind Of Transportation Used On Commuting Trips

Amoing reguler commuters, 85\% use a private eutomobile, ven, truck, or other form of personel trensportation. 7\% trevel by cerpool or venpool, end 11\% use public transit.

Use of public transit for regular commuting was most frequent among those under 30 yeers of age, end those ege 62 or more. Commüting by public transit wes also substentielly higher among the low income [33\%], then in the highest income group (7\%].

## Rating of Transportation Altarnatives

Respondents who reported regulerly commuting to work or business by eutomobile were esked to renk seven elternetive kinds of trensportetion which they migḥt use to deal with e severe gesoline shortege thet prevented them from using their cars to get to and from work.

The following table shows the percentage of respondents who ranked each elternetive firet (most accapteble] of the seven choices.

## Transit Use

|  | Total | Non- <br> Users | Users | Terget Group |
| :---: | :---: | :---: | :---: | :---: |
|  | \% | \% | \% | \% |
| Set up a cerpool with emplayees where I work. | 45 | 50 | 36 | 43 |
| Travel on foot, by bicycle, (other non-vehiculer). | 21 | 22 | 21 | 18 |
| Use public trensportetion. | 20 | 14 | 31 | 25 |
| Contect Commuter Computer. | 6 | 6 | 5 | 8 |
| Buspooling with others who work in my eree. | 4 | 5 | 2 | 3 |
| Vanpooling with others who work where I do. | 4 | 5 | 3 | 3 |
| Taxipooling directly to and from work. | 1 | 2 | 1 | 1 |
| the seven alternetives offer pool with employees where the the automobile commutars. Sec and third renked was üsing Computer wes ranked fourth | ad, the <br> y work <br> and cho <br> public <br> at $6 \%$. | most <br> nked <br> tr <br> it bu | farr a fi by - w | settin ice by or . |

The least desirable altarnatives to eütomobile commuting were texipooling direct from home to work, vanpooling, end buspooling to work from e locetion neer your home.

## Reting of Government Responses To A Severe Gesoline Sḧortege

All respondents were asked to rank seven elternative actions thet might be taken by government in the event of an emergency shortage of gesoline.


Leest eccepteble of the seven elternetives was edding e large tex to the price of gesoline. Only $3 \%$ ranked this ection first, end $53 \%$ put it in lest position.

## Trede-Dffs Batween Increased Gesoline Costs and Restrictad Supply

The sub-group of respondents who seid thet they regulerly commute to and from school or business were asked to consider e situetion where various combinations of events might come to pass involving the price of gesoline end its reletive scarcity. For the purposes of this question, the prices of gesoline were set at $\$ 1.50, \$ 2.50$, and $\$ 3.50$, and combined with levels of scercity ranging from the imposition of an oddeven purchase plen, ges retioning with 15 gellons per weak, end a government prohibition on the use of each automobile for one dey eech weak.

The resulting nine combinetions of price end scarcity were renked, end respondents were then esked if they might seriously consider aither ride shering or the use of public trensit in both the leest severe and most severe cases.

Besed on the trede-off question, current automobile commuters were classified into three groups: "herd core" non-riders who would not consider ride shering or public trensit no matter how expeneive or scarce gesoline might become; a group of "reluctant riders" thet might consider ride shering or public trensit under some, but not ell combinations of price and scercity; and a "transit susceptible" group thet were willing to consider ride sharing and public trensit even under the leaet severe combinations of price and scarcity. The proportion of automobile commuters felling into esch group is shown in the following teble.
Transit Group Percent
Transit Susceptible ..... 45
Moderates ..... 30
Herd Core Non-Users ..... 25

Additional anelysis of the clessificetion informetion for these groups shows that the trensit susceptibles tend to be :

- More likely to be found in the South Central RTD sector, and less likely to be found in the Sen Gebríel Valley sector.
- Are about one end e helf times es likely to belong to aither the Black or Hispenic ethric groups.
- An everege ege thet tends to be ebout six yeers less then the semple es e whole. (36 yeers versüs 42 yeers)
- Are more likely to be employed in the general office, skilled, semi-skilled, service worker, or technicel cetegories.
- Heve e medien income epproximately $\$ 5,600$ less then the $\$ 20$; 650 medien for reguler eutomobile commuters.
- Are somewhet more likely to spend mare then two hours a dey wetching television. ( $54 \%$ versus $46 \%$ ), end listening to $F M$ and $A M$ redio.

Among those "moderatas" that might be convinced to adopt ride sharing. or public transit, the combined averega ranking of the three levals of price and scercity are shown in the following table.

| Prica/Scarcity_Level | Mean Rank |
| :--- | ---: |
| $\$ 1.50$ | 2.4 |
| Odd/even plen | 3.6 |
| $\$ 2.50$ | 4.6 |
| Gas rationing | 5.5 |
| Restricted usa | 5.5 |
| $\$ 3.50$ | 7.5 |

In precticel tarms, this means that the group now opposed to, but open to being parsuaded to adopt ride sharing or püblic transit, would rather sea the imposition of en odd/even plan than gasoline at $\$ 2.50$ per gallon. For more severe aituations thet could not be handlad by odd/even, gas rationing and rastrictions on automobila usage are ratad about the same, with both baing considared less savere than gasoline at $\$ 3.50$ per gellon.

Based on these findings, increasing the price of gasoline from $\$ 1.50$ to $\$ 2.50$ would have almost twice the effect as imposing an odd/even plan, and increasing the price of gasoline to $\$ 3.50$ would have more affect than either gesoline rationing or imposing restrictions on automobile traval.

## ATTITUDE STATEMENTS

Section III of the questionneire included forty trensit releted stetements to which respondents were asked to indicate thair opinions on a six-paint reting scele renging from "strangly egrea" to "strongly disegree". Results for the fifteen statements that drew the strongest respanse, either positive or negetive, are summarized below. Percenteges of either very strongly agree or very strongly dịsegree responses ere shown below in total, end for trensit users and non-users. (Strongly Disegree percenteges are shown es negetive.]

| Table Base: Totel Respondents | Non- |  |  |
| :---: | :---: | :---: | :---: |
|  | \% | \% | \% |
| I would be embaressed to be seen riding the bus. | -53 | -50 | -59 |
| The bus fere should be kept low so thet mare people will ride it. | 36 | 34 | 40 |
| It herdly seems proper for someane in e top job to commute by bus. | -32 | -31 | -32 |
| Speciel treffic lenes for büses on the freaweys are a good idee end there should be more of them. | 31 | 28 | 34 |
| I feel nervous when riding RTD buses beceuse the drivers do not drive sefely. | -28 | -25 | -32 |
| I am efreid I might get on the wroing bus or get lost somewhere. | -26 | -22 | -31 |
| Buses do not run often enough. | 25 | 25 | 24 |
| Teking the bus instead of driving helps to reduce air pollution. | 22 | 1B | 30 |
| Buses rün so seldom thet you elmost always have to weit a long time to get one. | 22 | 24 | 20 |
| It just tekes too long to get enywhere by bus. | 20 | 24. | 15 |

## Continued

Most people only ride the bus because they don't. 2D 1821 heve a car to drive.

People should stârit using buees and mass treneit $19 \quad 17 \quad 24$ more in order to save energy.

Employers should be responsible for providing 192214 employees with ways to travel to and from work other then alone by private autamabile.

The "Diamond Lenes" for busee are a good ides 19 15 24 becaüse they help to get people out of their smog producing cars.

If gesoline were \$2.DD per gallon, I would take 192511 public transportation to work.

Among this list of statemente that respondents felt most strongly about, only four showed any substentiel difference of attitude between transit users and noni-usere. In general, transit users tended more to egree that "Diamond Lanes" for buses and taking the bus rather than driving both heve e positive affect on improving air quáality.

Six of the forty ettitude stetements hed to do specifically with public attitudes toward RTD bus drivers. The results of these qüestions are summerized below in terms of the percenteges of reepondents who strongly egreed with each stetement.


Besed on these results, the major concern among both riders end non-riders is the "ebility of drivers to hendle elmost eny troúble or problems thet might come up on their buses." While 27\% of respondents aither strongly or very strongly egread with this, 24\% strongly or very strongly disagreed.

## TRIP PURPOSES

Section IV of the questionneire included e number of questions on the purposes of trips taken in the pest seven days by automobile and public trensit, the total number of trips taken, how long the lest trip took, reeson for using public trensit, how treveled to a bus stop, bus trensfers, distance to the nearest bus stop, and knowledge of where (what part of the cityl the bus goes.

Respondents who had taken a public trensit bus within the pest seven days were also esked a series of questions to astablish their willingness to "trade-off" fare increeses of 10 to 30 cents egainst loss of evening and weakend service, or reductions in the frequency of service from 10 to 30 minutes.

## Trav̈el Bÿ Aúto or Personal Transportation

Of the total semple of respondents, $93 \%$ said thet they heve treveled away from home at least once in the pest seven deys by aütomobile or other forms of personel trensportetion. Results by family income showed thet 83\% of low income respondents took such trips versus $97 \%$ of those in the highest income group.

Full results are shown in ths following table.

## Main Purpose / Length of Last Automabile Trip

The mejor purposes of the leet eutomobile trip taken by respondents were es follows.
Trip PurposePercent
To/From work or businese ..... 32
To/From ehopping ..... 26
To/From other destinations ..... 15
To/from friends/vieiting ..... 14
To/from Doctor/Dentist/Medicel ..... 9
To/from school ..... 8
As expected, trips for work or bueiness were most frequent among those aged $\mathrm{CD}_{\mathrm{D}}$ through 81 and those with higher incomes, trips for shopping were more frequent for femeles then malea, end tripe to Doctors, Dentiets, etc, were mast frequent for those age 50 or more.
Averege travel time for the last automobile trip wes 22 minutes.

## Travel By Public Transit Buses

Among all respondents, $\mathbf{1 6 \%}$ said that they had traveled by public transit buses at least once during the past seven days.

The everage number of transit büs trips taken during the pest weak by all reispondents was 7.6 The average number of trips taken for the various trip purposes and the percent mentioning each pürpose for their last trip by public transit bus is shown below.

| Trip Purpose | Average <br> Number |
| :--- | :--- |
| To work or business |  |
| To shopping Trip |  |

The average length of the last public transit büs trip was 32 minutes - ten minutes longer than the average automobile trip.

## Reason For Making the Last Trip By Public Transit

Reasons for making the last trip by public tranait rather than by some other mode of transportation were as follows.

|  | Tranait Use |  |
| :--- | :--- | :--- |
|  |  |  |
|  | Non- | Target |
| Total | Users Users | Group |

\% \% \% \%

Reesons

| Don't hava a drivers licensa. | 41 | - | 41 | 11 |
| :---: | :---: | :---: | :---: | :---: |
| Hava a drivers license but no personal transportation. | 30 | - | 30 | 43 |
| Prafer the bus, even though have a license and personal transportation. | 29 | - | 29 | 46 |

Mora than ona-quartar (29\%) of the trips mentioned were taken by those who claimed to prefar using public transit aven though thay hava other means of travel available to them. Those taking the bus by praference tended to be age 50 and older, and to be in the higher income group.

## Mesne of Getting to the Plece Where Bus Wee Boerided

When esked how they got to the locetion to get onto the bus for their lest trip by public transit, $94 \%$ seid they welked, $4 \%$ got e ride, end 2\% drove there.

Number of Buses Taken To-Get to Destiñetion

Among those treveling by public transit büs during the pest seven deys, 62\% seid thet they mede the trip on one bus, end 38\% hed to trensfer et leest once. In totel, $52 \%$ indiceted they took two buses, $19 \%$ three, and 9\% four or more.

## Knowledge of Distance to Nearest Bue Stop

Among trensit users, 96\% indiceted thet they knew the exect distence to the neerest plece where they could got onto e public treṇit bus.

When esked the distence to the neerest bus stop, 70\% seid thet they were within two blocks. An edditionel $22 \%$ were within three to four blocks.

90\% of the respondents cleimed to know exectly where the neerest bus goes - thet is the erees of the city it would teke them to, $4 \%$ dịd not, end 6\% wera not really sure.

## Traderoff Of Increased Fares Varsus Dacreased Service

Ae mentioned et the beginning of this section, respondents who had taken e public transit büe within the pest seven deys were also esked e seriee of questions to esteblish thair willingnese to "trede-offi fere increases of 10 to $3 D$ cents egeinst loss of evening and weakend service, or reductions in the freqüancy of service from 10 to 30 minutes.

The informetion below summarizes the results of these questions for all respondenta in terma of the averege amount they would be willing to pey rether then suffer the corresponding service reduction. The lerger the amoünt, the lese ecceptable the elternetive reduction.

Sarvice Reductions


Ae shown above, extending the time between buses by 30 minutes was the least ettrective elternative , with respondents willing to pay en eyerege of $\$ .151$ to avoid $i t$. Weakend service renked second, followed by evening service, end 20 minutes more waiting time in third. 10 minutes more time between buses renked lest.

The finel decision on which of these courses of ection might be most cost effective to the District must elso be besed on the reletive operating cost sevings essocieted with eech ection. Of course, with the complete discontinuetion of either weakend or evening service, the additional . revenue secrificed should elso be taken inṭo eccount.

In Saction $V$ of the questionneire, respondents were esked to chack one of three responses for aach of thirteen SCRTD services: "Never Heard Of This Service", "Heerd About It But Never Used It", end "I Have Used This Service".

The table below summarizes the results of these questions for eech RTD service.

| SCRTD Services. | Never <br> Heard of | Never Used | Heve U̇sed |
| :---: | :---: | :---: | :---: |
|  | \% | \% | \% |
| Bus Stop Information Signs | 30 | 43 | 27 |
| Downtown L.A. Minibus Service | 30 | 58 | 11 |
| El Monte Buswey | 63 | 33 | 4 |
| Service To Spacial Attractions | 22 | 64 | 14 |
| Free RTD Timetebles | 24 | 45 | 31 |
| Free RTD SEction Meps | 40 | 39 | 21 |
| Free Pamphlets on RTD Serivice | 41 | 39 | 20 |
| Monthly Pass | 17 | 72 | 11 |
| Park And Ride Service | 30 | 65 | 5 |
| RT'D Ticket Books | 40 | 56 | 4 |
| RT.D Bus System Mep | 45 | 46 | 9 |
| Subscription Bus Service | 75 | 23 | 2 |
| Telephone Information Service | 29 | 45 | 26 |

As shown above, those SCRTD services which L.A. County residents were most ewere of were: the monthly pess, service to special ettractions; fres RTD timetables, telephone information service, büs stop informetion signs, downtown L.A. minibüs service, and the perk end ride service.

Raspondents were askad to rata seven different lacal, state, and netional organizations on how good a job thay felt aech wes doing ovarall.

The seven organizetions are listed below, with their ayerage ratings besed on a scala in which "Never Haard of Tham" = 0 , "Poor" $=1$, "Fair $=2$, "Good" $=3$, "Vary Good" $=4$, and "Excellent" $=5$. Also shown is the percent of respondents ranking each orgenization es "excellent" or "vary good".

## Transit Use

Mean \begin{tabular}{l}
Total <br>
\hline$\%$

$\quad \frac{\text { Users }}{\%} \frac{\text { Users }}{\%} \quad$

Target <br>
$\%$
\end{tabular}

Organizations

| SCRTD | 2.6 | 15 | 11 | 19 | 12 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| AMTRAC | 2.8 | $2!$ | 21 | 24 | 20 |
| CALTRANS | 2.6 | 17 | 15 | 19 | 19 |
| DW P | 2.9 | 20 | 19 | 21 | 15 |
| City of Los Angal es | 2.6 | 14 | 11 | 18 | 12 |
| Los Angeles County | 2.7 | 14 | 11 | 17 | 11 |
| M W D | 2.9 | 16 | 15 | 17 | 13 |

As shown abova, SCRTD was rated at the same level as the City of Los Angelas, with a mean rating of 2.6 on a scale of from one to five. In total, $15 \%$ of all reaspondents answaring this quaation rated SCRTD as "vary good" or "axcellent". Of the organizations rapresented, the best overall retinge were given to AMTRAC and the Depertment of Watar and Power.

MEDIA EXPOSURE

Section VI of the questioninaira included questions on respondent readership of e list of eighteen local newepapers, end six megezines, followed by e question which esked for estimetee of the amount of time spent, on en everage dey, listening to $A M$ and $F M$ radio etetione, watchîng television, end reeding newspepers and megaziṇes.

## Newspepers

Reapondente were esked to indicete how often they read each of the newspapers listed, ranging from "neyer" through "almost every day". Besed on e scele with "never reed" es "1", to "elmost every day" es "5", the aix most often read newspepers were es foillows.

| Newspapers | Mean. Reting | \% Almost <br> Eyery Dey |
| :--- | :---: | :---: |
| Los Angeles Times | 3.4 | 38 |
| Herald-Examiner | 2.2 | 11 |
| Deily News (Valley Grean Sheet) | 1.6 | 7 |
| Long Beach Indepsndent | 1.4 | 5 |
| South Bay Daily Breazie | 1.4 | 4 |
| San Gebriel Valley Tribune | 1.3 | 4 |

In general, newspaper readership was higher among non-transit users than among users. This wes perticulerly true for the Los Angeles Times, which wes re日d "elmost every dey" by 42\% of non-trensit users, compered to 32\% of trensit users.

## Magezines

Results for the six magazines included in the questionnaire, on the same basis es reportad for newspapers, are shown below.
\% AlmostMagazinesMean Rating Evary Day
T.V GJIDE 3.2 ..... 36
YOU (Los Angeles Times) ..... 1.9 ..... 5
Sunset 1.7 ..... 2
Los Angeles Magazine 1.6 ..... 1
New West ..... 1.5 ..... 蔡
Mr. Te Ve 1.1 ..... 1

## Time Spent - By Specific Medie

Respondents were esked to indicete how much time during en everege day they spend with each of severel types of print end broedcast media. The percent of respondents spending two or more hours per dey on each activity for the sempla es a whole, end for trensit users varsus non-users is shown in the teble below.

Trensit Use

## Medie

| Non- | Terget |  |
| :---: | :---: | :---: |
| Total | Users Users | Group |
| $\%$ | $\%$ | $\dot{\%}$ |


| Watching Television | 62 | 61 | 64 | 54 |
| :--- | ---: | ---: | ---: | ---: |
| Listening to FM Redio | 32 | 30 | 34 | 37 |
| Listening to AM Redio | 19 | 17 | 22 | 19 |
| Reeding Newspepers | 7 | 6 | 9 | 9 |
| Reading Megezines | 7 | 5 | 9 | 7 |

As shown ebove, transit users, es compared to non-users, ere somewhet more likely to be heavily exposed to ell media, perticulerly AM radio.

The terget group susceptible to conversion to public trensit eppeers to be somewhet more likely to be exposed to FM redio, end less likely to talevision.

This saction summarizes the demographic charectaristics of the total sample, ee compared to trensit users, non-users, and the "transit auscaptiblan targat graup.

Sex

## Transit Üse

|  | Non- | Targat |
| :---: | :---: | :---: |
| Total | Users Usars | Group |
| \% | \% \% | \% |

## Reapondent Sax

| Male | $5 D$ | 50 | 50 | 55 |
| :--- | :--- | :--- | :--- | :--- |
| Female | 50 | 50 | 50 | 45 |

In the base survey sample, 42\% of the respondents were male, 58\% femele. To some extent, thia disproportionate representation of women is typical of ell personal, in-home interviewing. To compensate for this, the computar tabulations of all data waighted male respondents by a factor of 1.37 to $1 . \mathrm{DD}$.

Marital Status

## Iransit Use

|  | Non- | Target |
| :---: | :---: | :---: |
| Total | Users Ueers. | Group |
| \% | \% \% | \% |

## Marital Status

| Married | 60 | 68 | 50 | 59 |
| :--- | :--- | :--- | :--- | :--- |
| Noit Married | 40 | 32 | 50 | 41 |

Income

## Trensit Use

## Family Income

| Under $\$ 5,000$ | 5 | 3 | 7 | 2 |
| :--- | ---: | ---: | ---: | ---: |
| $\$ 5,000$ to $\$ 7,499$ | 7 | 6 | 9 | 2 |
| $\$ 7,500$ to $\$ 9,999$ | 5 | 4 | 8 | 2 |
| $\$ 10,000$ to $\$ 14,999$ | 12 | 11 | 13 | 12 |
| $\$ 15,000$ to $\$ 19,999$ | 13 | 11 | 14 | 15 |
| $\$ 20,000$ to $\$ 24,999$ | 12 | 11 | 13 | 16 |
| $\$ 25,000$ to $\$ 29,999$ | 11 | 12 | 9 | 15 |
| $\$ 30,000$ to $\$ 39,999$ | 14 | 16 | 10 | 14 |
| $\$ 40,000$ end 0 ver | 22 | 26 | 17 | 23 |
|  |  |  | 24.0 | 17.6 |

Between the eurvey conducted in 1978 and the present, reported totel ennual family incomes increesed from a medien of $\$ 13,660$ to $\$ 21,270$. While pert of this difference can be eccounted for by inflation, and an increase in the number of two wage eerner houegholds, we believe the major reel chenge hes been due to a substantial increase in the number of respondents refusing to answer the income questions. The absence of lower income households from the computetion would eccount for the higher estimate in 1981 .

According to the Conference Board, median incomes of the typicel family of four increesed from $\$ 9,867$ in 1970 to an estimated $\$ 24,035$ in 1981.

## Respondent Age

## Transit Use

|  | Noin- | Targat |
| :---: | :---: | :---: |
| Total | Users Users | Group |
| \% | \% \% | \% |

Respondent Age

| Under 20 | 8 | 4 | 13 | 7 |
| :--- | ---: | ---: | ---: | ---: |
| 20 to 29 | 22 | 21 | 25 | 31 |
| 30 to 39 | 21 | 24 | 18 | 28 |
| 40 to 49 | 11 | 14 | 7 | 15 |
| 50 to 59 | 14 | 15 | 10 | 10 |
| 60 years and ovar | 24 | 22 | 27 | 9 |

Median ege for the total sampla was 37.3 years, compered to 47.2 in the survey conductad in 1978. The large difference represents a subatentially higher proportion of respondents in this survay who are in the under 20 and 20 to 29 yeer old ege groüps, end a corresponding reduction in the proportion of respondents in thair 30's and 40's. The proportion of respondents age 60 and ovar remained the e日me in both surveys.

## Occupation

|  | Non- <br> Total | Users <br> $\%$ | Users |
| :---: | :---: | :---: | :---: | | Target |
| :---: |
| Group |

Respondent Occupation

| White Collar Total | 46 | 49 | 39 | 41 |
| :--- | ---: | ---: | ---: | ---: |
| General Offica/Clerical | 3 | 1 | 6 | 4 |
| Management | 12 | 15 | 7 | 9 |
| Propriator | 4 | 4 | 3 | 3 |
| Profassional | 22 | 23 | 20 | 19 |
| Sales | 5 | 6 | 3 | 6 |
|  |  |  |  |  |
| Blue Collar Total | 34 | 33 | 39 | 47 |


| Skilled/Semi-Skilled | 22 | 22 | 23 | 30 |
| :--- | ---: | ---: | ---: | ---: |
| Technical | 4 | 4 | 4 | 7 |
| Service Worker | 5 | 5 | 6 | 9 |
| Unskillad Labor | 3 | 2 | 6 | 1 |

Other Groups Total $\quad 20 \quad 18 \quad 22$

| High School/College student | 1 | $*$ | $*$ | - |
| :--- | ---: | ---: | ---: | ---: |
| Retired | 14 | 15 | 14 | 8 |
| Not Employed | 5 | 3 | 8 | 4 |

Appropriate to the somewhat younger age and higher income distribution of this survay compared to 1978, in this year's study almost one-half of the respondents (46\%) fell into the 'White collar' occupetionel group, compared to $38 \%$ in the 1978 survey.

|  | Non- | Target |
| :--- | :--- | :--- |
| Total | $\frac{\text { Users }}{\%} \frac{\text { Users }}{\%}$ | Group |
| $\%$ | , | $\%$ |

Respondent Educetion

| Grade School | 9 | 9 | 11 | 7 |
| :--- | ---: | ---: | ---: | ---: |
| High School | 41 | 39 | 43 | 35 |
| Trade School | 4 | 5 | 3 | 3 |
| College (1 to 3 years) | 24 | 25 | 23 | 32 |
| College [4 years +) | 12 | 13 | 10 | 12 |
| Post Graduate | 10 | 9 | 10 | 11 |

How Long Lived In Los Angel as County
Transit Üse

|  | Non- | Terget |
| :---: | :---: | :---: |
| Total | Users Users | Group. |
| \% | \% \% | \% |

Time In Los Angeles

| 1 Year or Less | 5 | 4 | 6 | 5 |
| :--- | ---: | ---: | ---: | ---: |
| 2 to 10 Years | 22 | 19 | 26 | 24 |
| 11 to 24 Years | 29 | 27 | 31 | 38 |
| 25 Years or Mora | 44 | 50 | 37 | 33 |


| Total | Non- <br> $\%$ | Users <br> $\%$ | $\frac{\text { Users }}{\%}$ |
| :---: | :---: | :---: | :---: |$\quad$| Targe |
| :---: |
| Groun |

## Participation In Car Pools

## Transit Usa

| Total | Non- <br> $\%$ | $\frac{\text { Users }}{\%}$ |
| :---: | :---: | :---: |
| $\%$ | $\frac{\text { Ueers }}{\%}$ | Target <br> Group |
| $\%$ |  |  |

## Car Pool Participation

| Yee - Private | 8 | 7 | 9 | io |
| :--- | :--- | :--- | :--- | :--- |

Yee - Company Sponisor * 1 - *

| No | 92 | $9 ?$ | 91 | 90 |
| :--- | :--- | :--- | :--- | :--- |

[^0]"Trensit. Dependence"
Use of Personel Transportation
Iransit Use


Dependence Groups
Yee - Have Ues Df Automobile $88 \quad 94 \quad 79$
$\begin{array}{lllll}\text { All of the time } & 78 & 89 & 63\end{array}$
$\begin{array}{lllll}\text { Dccasionelly } & 7 & 4 & 12 & 2\end{array}$
$\begin{array}{ccccc}\text { Specisl Dccasione } & 2 & 1\end{array}$
No - Do not heve ues 12 6 21
Df major interest here is the fact that a very high proportion of traneit users claim to have regular ues of private trensportation. Df course, many of these commute regularly by aütomobile, end use public traneit only occeaionally.

Labor Union Membership


JAMES R. STARKS<br>B.A. Psychology, Megna Cum Laude, 1960 University of Southern Californie Los Angelas, Californie

Mr. Starks hes been employed in the field of public opinion, marketing, and advertiaing research since his graduation from the University of Southern Californie in June 1960.

Following a yeer as Merketing Analÿst with the Sparkletts Drinking Weter Corporation, Mr. Starks joined the staff of Human Fectors Research, Inc., then heedquertered in Las Angele日. Over the following severel years, Mr. Sterks advenced in the compeny from Research Aseistent to Senior Vice President in charge of the Merketing Research Division, with full responsibility for operation of the company's Los Angeles office. In the Fell of 197B, he becama the first President of newly formed Dete Sciences, Inc. which subsequently purchased ell of the aesets of HFR's Marketing Reseerch Division.

Mr. Starks has an extensive beckground and training in public opinion and consumer reseerch, from experimential design end questionneire development to sampling methods, field dete collection, computer anelysis, and preperetion of written reports. During the pest faw ye日rs; Mr. Starks hea sarved as a research consultant to cliants in a broed renge of industries including aerospece, advertising, benking, communications, consümer goods, electronics, food products, petroleum merketing, reel estete, reteil merchandising, and trenspartetion, ee well es several egencies of locel, state, end federel governments. Specific resaerch topics covered înclude mejor studies of consumer ettitudes end behevior, merket potentiel estimetion, package design studies, product use tests, advertising medie end copy testing, mathemeticel modeling, end computer anelysis of consumer credit informetion.

Mr. Starks ise member of Phi Bete Keppe, Phi Keppa Phi, the American Merketing Associetion, end the Travel Reseerch Association.

The individuels listed below heve been essociated with OSI since its inception, and will be celled upon as needed during the course of this survey.

KENNETH 8. GROSS Ph.D Mathemetics, 1973 Univereity of Southern Celifornie<br>M.S. Statistics, 1977 Univarsity of Michigan

Since receiving his Doctorete in Mathemetice from USC in 1973, Dr. Gross hes served es en instructor in methemetics and stetistics et Lousiene State University, and Michigen Stete University before accepting a post es Assistent Profeesor of Statistice et Arizone Stete University in Tempe, AZ. From Jüne 1978 to June 1979, he wes employed es a Syetems Analyst specializing in computer security et Systems Development Corporetion in Sente Monice, CA.

Dr. Gross hes been essocieted with Date Sciences in a consulting cepecity since its orgenizetion in 1978. Moet recently, he hes been involved in the development of e compüter model for market simulation beaed on tradeoff judgemente of product or service ettributes.

Data Sciences wes founded in June 1978 for the purpose of offering merketing, public opinion, consumer, product, and edvertising reseerch services to clients in business, industry, end government. At thet time, the key members of the Los Angeles office of Human Fectors Research, Inc. ecquired the essets of HFR's Marketing Reseerch Division and esteblished their own company.

Dete Sciences is incorporeted in the State of Celifornie, is whally owned by the professionel steff, end includes experienced professionals in the arees of reseerch design, primery end secondery dete collection, computer dete processing, end multiveriete stetisticel enelysis.

The mejor client services offered by DSİ include ell espects of merketing, public opinion, consumer, product, end advertising research from reseerch design, deta collection end processing, to enelysis and interpretetion of findings, production of written reports, end orel presentation of findings with eppropriete visuel aids.

All services, such es computer deta processing, or edvenced statisticel enelysis, ere offered individually, howevar Dete Sciences spacielizes in conducting complete custom designed research projects using meil, group administered, telephone, in-home end intercept personel interviews either singly, or in combinetion.

A pertiel list of DSI clieṇts over the pest two years include the following.

Bentoin + Bowles Adviertising, Inc. Century 21 Real Estete Corporetion Continentel Airlines<br>Grey Adivertising<br>Greet Western Sevings + Loen Association<br>Los Angeles County Bar Associetion Poleris Microcomputers, Inc.<br>Seers, Roebuck + Compeny<br>Soüthern Celifornie Repid Trensit District<br>Southern Pecific Transportation Company<br>Texes Inetruments, Inc.<br>Union Dil Compeny of Californie<br>- Merketing Informetion Division, Chicegọ, IL.<br>- Credit Card Center, Sen Frencisco, CA.<br>Van De Kamps - Frozen Foods Division<br>Von's Markets, Inc.<br>Yamehe Internetional C̣orporetion

Adv̈ertising Research
Advertising Penetretion and AwerenessAudiance Size and Composition
Concept and Copy Testing
Medie Selection Madels
Reedership Surveys
Corporate and Legel Research
Change of VenueCorporeta Image Studies
Employes Attitude Surveys
Shereholdar Surveys
Trademark Infringement
Marketing Reseerch
Brend Positioning
Merket Segmentetion
Perceptüel Mepping
Psychogrephic Anelysis
Purchesing Behevior
Trade-off Analysis
Product Reseerch
New Product Acceptence
Peckeging Design
Product Use Tests
Seles end Distribution Reseerch
Deeler Attitude Surveys
Sales Forecasting end Anelysis
Site Locetion Studies
Trade Area Anelysis

Reseerch Design
The selection of en eppropriate reseerch method depends on correctly svelueting severel independent and interdependent fectors, among them the cherecteristics of the populetion(s) to be represented, the desired eccurecy of estimeted populetion perameters, the neture of the informetion needed, its contribution to reducing the risk of making en incorrect deciaion, end the normel limitetions of time end budget.

Date Sciences hes succesefully deeigned end conducted research projects at every level of complexity, from simple telephone surveys, to extremely sensitive investigetions of humen behevior heving importent implicetions for public policy. We believe our reputation for creativity and innovation in both reseerch design end computer data anelysis hes been well earned.

## Probebility Sampling

Stenderdized methods heve been developed by DSI for selecting e wide veriety of semples for mail, telephone, end personel interviews - including computer production of eddress lebels for mail surveys, computer generetion of rendom digit telephone numbers to eneble telephone sampling of non-listed telephone subscribers, end en edaptetion of hiererchicel clustering to generete metched peirs of test merket cities, retail locetions, or experimentel end control groups for structured merket tests.

Interviewar Training, Supervision, and Varificetion

Deteiled written interviewer instructions are prepared for ell telephone end personal interview surveys. Where more then ordinerily complicated sampling or deta collaction procedures ere required, ell interviewers ere pereonelly treined by a member of the DSI steff. All phases of fiald dete collection ere closely superivised to insure the highest quelity interviewing abteineble.

A uniqüe, DSI developed $100 \%$ pastcerd verification procedure is routinely used on ell but the simplest telephone surveys, in addition to the usual 15\% telephone verificetion for proper interviewing procedure and response accurecy.

## Coding and Kaypunching

Of the numerous stages in the flow of informetion from the survey respondent to the users written report, the least visible and therefore most productiva of undetected arror, are the coding and keypunching operations. The use of inexperienced, unverified keypunching, end iñedequate "machine cleaning" procedures are probebly the mejor source of error in most survey reesarch projects. For this reason, all DSI keypunching is verified, end eech respondent's record is carefully checked for interrel consistancy. Although this epproach is mare expensive and time consuming, we feel the extre effort is more than justified by e significent improvement in data quality.

## Computer Dete Processing

Data Sciences makee regular use of the IBM 370/3033 computer instelletion meinteinad by the Litton/Mellonics Information Center in Canoga Perk. This fecility, with two 3033 mainframes running in tandem, 14 million words of core storege, more than 30 tepe drives and 80 disk drives, 2 Model 3800 high speed leser printers, and a full erray of other peripheral devices is one of the lergest end best equipped computer fecilities in the Westarn United Stetes.

The Date Sciences softwere library includes e number of specialized programs for the efficient processing and analysis of survey reseerch date. The full capobilities of recognized statistical program systems such es BMDP, SPSS, end SAS are eveilable for betch, remote job entry, or on-line interactive processing of survey dete. Amang the stendard procedures evaileble are univariete deacriptive statistics, eutoregression, canonical correletion, cluster enelysis, discriminant enelysis, factor anelysis, weighted, nonlineer, stepwise, and polynomial regressions, es well as nested end multiveriate enelysis of varience. Additionel proprietery programs ere evailable for the development of merket shere and segmentation models using tradeoff analyeis, production of mailing labals, genaration of seven or ten digit numbers for random digit dialing, random selection of sempling paints for eree probebility sampling, and others.

Reporting of Survey Results

However cerefully data is collected end enalyzed, its füll velue is only reelized when the informetion is effactively communicated.

Date Sciencea provides research results et whetever level of detail the client requires, from simple cross tabuletions to full written reports and manegement presentetions using e veriety of audio/visual technịques.

RTD Sector \#
$\qquad$ from Data Sciences, Inc. in Los Angeles. [SHDW ID CARD] We're conducting a püblic öpinioñ súrvey about personal transportation in Los Angeles County, and we would like to have some of your opinions. [PRI'MARY RESPDNDENT MUST BE ADULT HOUSEHOLD MEMBER]

Have you personally gone anywhere beyond walking distance of home twice or more within the past seven days?
Yes [ ] No [ ]
2. Has any other person in your household gone anywhere beyond walking distance twice or more within the past seven days?

$$
\text { Yes }[] \quad \text { No }[]
$$

[CONTINUE INTERVIEW WITH QUALIFIED RESPDNDENT OR ARRANGE FOR LATER APPOINTMENT - IF ND QUALIFIED RESPONDENT IN HOUSEHDLD, TALLY AND TERMINATE]

TURN TD NEXT PAGE AND CDMPLETE THE CLASSIFICATION INFDRMATION SECTION. WHEN FINISHED WITH THIS SECTIDN, ONTINUE WITH INDIVIDUAL QUESTIONNAIRE. WHEN THIS IS FINISHED, EXPLAIN THAT YDU WANT TD LEAVE QUESTIDNNAIRES FDR ALL DTHER FAMILY MEMBERS AGE 12 DR DVER WHD HAVE TAKEN TWD DR MDRE QUALIFYING TRIPS DURING THE PAST WEEK. EXPLAIN ABDUUT THE \$1.OD INCENTIVE FOR EACH RETURNED QUESTIDNNAIRE. HAVE RESPDNOENT FILL DUT NVELDPE FOR RETURN OF INCENTIVE, AND LEAVE NECESSARY MATERIALS. COMPLETE HOÜUSEHOLD CLASSİFICAITION ON UESTIONNAIRE(S) LEFT FOR COMPLETION.]

RESPDNDENT'S NAME $\qquad$ PHONE NUMBER $\qquad$
JORESS $\qquad$ CITY
ZIP $\qquad$
INTERVLEWER $\qquad$ DATE $\qquad$ TIME BEGIN $\qquad$ DURATION

```
OMPLETED DN CALL 1 [ ] 2 [ ] ALTERNATĖE HDUSEḦOZLO
[ ]

First, we would like to ask you a few questions about your household.
1. How many persons, age 12 or over, are there living here at the preseint 1 ime , juthding yourself?

\(: 117\)
2. How many motor vehicles in working condilion are owned persionally by you and other mentrers of the immediate houschold? This should include all types of velhicles such as; valm, small lrusk, moturcycles, and regular passenger cars.

3. How many of the persons in the household, age 16 or over, currently have Califumia driver's licenses?

4. How many are full-time or part-time students aṭc 12 or over?

5. How many are employed full time outside of the home? ( 30 hours per weck or more)
6. How many are employed part time outside of the homc? (Less than 30 hours per week)

7. Are there any children under 12 in the houschold who frequently ride public transit buses? By frequently we mean 3 days a week or more.
\[
\text { Yes }[]^{-1} \quad \text { No/None }[]^{-2}
\]

A. Do you have a telephone?
\[
\text { Yes }[]^{-1} \quad \text { No }[]^{-2}
\]
\[
\text { Own }[]^{-1} \quad \text { Rent }[]^{-2}
\]
10. How many persons reside in your household in each of the following age groups?
A. \# Children (5 \& under)
B. \# Children (6 to 11) \(\square\)
C. \#Children (12 to 14)
D. \# Children (15 to 17)
E. \# Adults (18 to 64)
F. \# Adults ( \(65 \&\) over)
G. Total Living at Home
11. What language is normally spoken in your home? [CHECK BELOW]


\section*{SECIION I}
1. How many times have you gone away from hotae, farther than walkintj distance but within fine Iot; Angeles area in the past seven days?
[CHECK ONE BOX]

[ ] [ ]

[ 6 ]



1A. How many of these times away from home did you travel only by aulumbile, or other typer(:) of personal motor vehicle?


1C. How many of these times did you use both personal transportation and public transit buses?

. Approximately how many trips have you taken on a public transit bus within the past month? For example, going to and from work in one day would be two trips.
[WRITE IN]
3. Have you ridden public transit buses on a regular basis at any time within the past Lhree years-that is from January 1978 through the present t.ime?


3A. When did you start riding them on a regular basis?
\(\left.\begin{array}{l}\text { More than } 3 \text { years ago } \\ \text { Between } 2 \text { and } 3 \text { years ago } \\ \text { Between } 1 \text { and } 2 \text { years ago } \\ \text { Less than a year ago }\end{array} \quad \begin{array}{l}{[-1} \\ {[ }\end{array}\right]-2\)

3C. About how long was it, in months, between the time you started riding public trangit buses and the time you stopped?
\begin{tabular}{ll} 
Less than 1 month & {\(\left[\begin{array}{ll}-1 \\
1 \text { to } 2 \text { months } & {[ }\end{array}\right]-2\)} \\
3 to 5 months & {\([\quad] \sim 3\)} \\
6 months to a year & {\([\quad] \sim 4\)} \\
More than a year & {\([\quad] \sim 5\)}
\end{tabular}

3D. Why did you stop riding public transit buses? [PLEASE WRITE IN YOUR ANSWER BEI.OW]
1. During the past twelve months, have you postponed or canceled any trips around Southern California for recreation or entertainment because of the high cost of gasoline?
\[
\begin{array}{llll}
\text { Yes } & {[ } & ]-1 & \text { [PL.EASF. ANSWER \{UIL.SI]ON IA }] \\
\text { No } & {[ } & ] \cdot 2 & \text { [PLEASE SKIP IN QUESTION } 2]
\end{array} .
\]

1A. Did you consider using public transportation insteat of an automobile for any of these trips?
\[
\begin{array}{llll}
\text { Yes } & {[ } & ]-1 & \text { [PLEASE ANSIVER RUESTION IB }] \\
\text { No } & {[ } & \text { [PLEASE } \\
\text { SKIP } 10 \text { RUIESTION } 2]
\end{array}
\]
18. Did you actually use public transportation for any trip for recreation or entertainment eanceled because of the high cost of gasoline?

2. Have you bought or considered buying an automobile within the past twe lve months?


2A. How important was the cost of gasoline to you in your decision about whether to buy and what type of automobile to buy?
\begin{tabular}{|c|c|c|c|c|}
\hline & -1 & -2. & - 3 & -4 \\
\hline Whether to buy or not? & [']. & [ ] & [] & [ ] \\
\hline . & \[
\begin{gathered}
\text { DIDN'T } \\
\text { CONSIDER IT }
\end{gathered}
\] & \begin{tabular}{l}
NOT VERY \\
IPIPORTANT
\end{tabular} & \begin{tabular}{l}
SOMEWHAT \\
IMPORTANT
\end{tabular} & VERY IMPORTANT \\
\hline & -1 & -2 & -3 & -4 \\
\hline What kind of car to buy? & [ ] & [ ] & [ ] & [ ] \\
\hline & \[
\begin{gathered}
\text { DIDN'T } \\
\text { CONSIDER IT }
\end{gathered}
\] & NOT VERY IN:PORTANT & \begin{tabular}{l}
SOMEWHAT \\
IMPORTANT
\end{tabular} & VERY INPDIRTANT \\
\hline
\end{tabular}
3. Have you bought or considered buying or movir: to a new home or apartment in Los Angeles County within the past twelve months?
Yes - Bought
Home \(\quad[]^{-1} \quad\) [PLEASE ANSWER QUESTION 3A]
4. Do you regularly commute from your home to school or a place of business or employment. three or more days each week?
Yes \(\left[\begin{array}{lll}-1 & \text { [PLEASE ANSUER QUESTION 4A] } \\ \text { No }[ & ]^{-2} & \text { [PLEASE SKIP TO QUESTION 6] }\end{array}\right]\)

4A. What city or area do you commute to? [IF NOT A SPECIFIC CITY OR CONHIUNITY SUCH AS hULI YWOOD. PASADENA, OR LONG BEACH PLEASE WRITE IN THE COMMUNITY AREA SUCLI AS "HILSHIRE AND WESTERN" DR "DOWNTOWN", ETC.]

\section*{[WRITE IN],}

4B. What kind of transportation do you normally use in these commuting trips? EPILASC CHLCK ALL THAT APPLY]
\begin{tabular}{|c|c|}
\hline Privaté automobile, van, truck, or other motor vehicle & [ \(]^{-1}\) \\
\hline Carpool or vanpool & [ \(]^{-2}\) \\
\hline Public transportation & []\(^{-3}\) \\
\hline
\end{tabular}
[If you checked only "Private automobile, van, etc.", please answer purstion 5--If not, pleasle SKIP TO QUESTION 6]
5. In the event of a severe gasoline shortage that prevented you from taking your car or other personal transportation to work, there are a number of actions that you might take to deal with the emergency. Please read the list of actions below and write in a " 1 " beside the action that would be most acceptable to you personally. Write in a "2" beside the action that would be second most acceptable --a " 3 " beside the third most acceptable, and on through the list until you write in a " 7 " beside the action that would be least acceptable.
A. Travel to work on foot, by bicycle, or some other way not involving the automobile or bus.
B. Try to set-up a carpool with other employees where I work. \(\qquad\)
D. Use public transportation bus service. \(\qquad\)
E. Buspooling, where you and others who work in your area would ride a special bus between work and a few places near where you live. \(\qquad\)
F. Vanpooling, where you and others who work in your area would meet a 12-seat van that would take you directly to and from work.
G. Taxipooling, where a taxicab would pick you and others who work near you up at home and take you directly to and from work.
6. In the event of a severe gasoline shortage, there are a number of actions that the government might take to deal with the emergency. Please read the list of actions below and write in a "l" beside the action that would be most acceptable to you personally. Write in a " 2 " beside the action that would be second most acceptable--a " 3 " beside the third most acceptable, and on through the list until you write in a " 7 " beside the action that would be least acceptable.
A. An odd-even day gasoline sales system would be established
B. A large tax would be added to the price of gasoline.
C. Gasoline rationing would be established.
\(\qquad\)
C. Gasoline rationing would be established.
D. Employees would be required to get to work by buspooling, carpooling, or vanpooling.
E. Employers would be required to spread out the times at which employees start work.
F. Employees would work four ten-hour days instead of five eight-hour days.
G. People would be prohibited from driving one day each week.

This section has been included to get some idea of how you feel and think about a number of things connected with public transportation.


Please read each statement and put an " X " in the brackets that best describe your reaction. If you VERY STRONGLY DISAGREE, put an " \(X\) " in the box at the far left, as shown above. If you VERY STRONGLY AGREE, put the " \(X\) " in the box at the far right. If you MILDLY \(\overline{A G R E E}\), or MILDLY DISAGREE, put an "X" in the middle brackets that best describe your reaction to the statement.

There are no "right" or "wrong" answers, and it isn't necessary to spend very much time on any one item. Just check off your first impressions.
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline &  & \begin{tabular}{l}
SAGREE \\
STRONGLY \\
DISAGREE
\end{tabular} & \[
\begin{gathered}
\text { MILDLY } \\
\text { DISAGREE }
\end{gathered}
\] & MILDLY AGREE & \[
\begin{gathered}
\text { STRONGLY } \\
\text { AGREE } \\
\hline
\end{gathered}
\] &  \\
\hline Taking the bus costs a lot less than making the same trip by car. & \[
\ldots\left[^{-1}\right]
\] & \[
\left[^{-2} \cdot\right]
\] & \[
\left[^{-3}\right]
\] & \[
\left[{ }^{-4}\right]
\] & \[
\left[^{-5}\right]
\] & \[
\left[^{\sim 6}\right]
\] \\
\hline Driving a car to work wastes gasoline and contributes to the energy shortage................. & \[
\text { . }]
\] & \[
[]
\] & [ ] & [ ] & [ ] & [] \\
\hline Most RTD drivers are courteous to their passengers. \(\qquad\) & \[
\left[\begin{array}{ll}
{[ }
\end{array}\right.
\] & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline There is a lot less chance of getting in an accident when you ride the bus......................... & \[
.[]
\] & [ ] & [ ] & [.] & [ ] & [] \\
\hline Buses run so seldom that you almost always have to wait a long time to get one..................... & \[
\text { . }[]
\] & \[
\left[\begin{array}{l}
] \\
\hline
\end{array}\right.
\] & [ ] & [ ] & [ ] & [ ] \\
\hline Almost all of the RTD buses are old and worn out. & [ ] & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline People who can afford to own a car don't have arly reason to ride the bus.............................. & \[
.[]
\] & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline I would use the bus if I knew when and where it was going. & \[
\text { . }]
\] & [ ] & [ ] & [ ] & [ ] & [] \\
\hline The full cost of bus service should be paid for by the users. & \[
. \because\left[\begin{array}{ll}
{[ }
\end{array}\right.
\] & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline People who ride the bus get to work on time more often than people who drive.................... & \[
\left[\begin{array}{ll}
{[ }
\end{array}\right]
\] & [ ] & [ ] & [ ] & [, ] & [] \\
\hline Poeple should start using buses and mass transit more in order to save energy. &  & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline Taking the bus instead of driving helps to reduce air pollution. & \[
\cdots \cdot\left[{ }_{\sim 1}^{[ }\right]
\] & \[
\left[\begin{array}{c}
{[-2}
\end{array}\right]
\] & \[
\left[\begin{array}{c}
{[3}
\end{array}\right]
\] & \[
\left[\begin{array}{cc}
{[ }
\end{array}\right]
\] & \[
\left[\begin{array}{c}
{[ }
\end{array}\right]
\] & \[
\left[{ }_{\sim 6}\right]
\] \\
\hline & VERY STRONGLY DISAGREE & \begin{tabular}{l}
STRONGLY \\
DISAGREE \\
SAGREE
\end{tabular} & \[
\begin{gathered}
\text { MILDLY } \\
\text { DISAGREE }
\end{gathered}
\] & MILDLY AGREE & \[
\begin{gathered}
\text { STRONGLY } \\
\text { AGREEE }
\end{gathered}
\] &  \\
\hline
\end{tabular}


1. Have you traveled away from home within Los Angeles County by automobile or other type of personal transportation at least once within the past seven days?


1A. What was the main purpose of your last automobile trip? Was it going to and from work, school, shopping, or for some other reason? [PLEASE C̈HECK YOUR ANSWER BELOW]
\begin{tabular}{lll} 
To/from work or business & {\([\)} & \(]^{\sim 1}\) \\
To/from school & {\([\)} & \(]^{-2}\) \\
To/from shopping & {\([\)} & \(]^{\sim 3}\) \\
To/from doctor/dentist/medical & {\([\)} & \(]^{\sim 4}\) \\
To/from friends, visiting or social & {\([\)} & \(]^{\sim 5}\) \\
To/from other destinations & {\([\)} & \(]^{\sim 6}\)
\end{tabular}
18. Approximately how long did the trip take, going one way only?
\begin{tabular}{ll} 
Less than 15 minutes & {\(\left[\begin{array}{ll}]^{-1} \\
15 \text { to } 29 \text { minutes } & {[ }\end{array}\right]^{\sim 2}\)} \\
A half hour to 44 minutes & {\(\left[\begin{array}{ll}]^{3} \\
45 \text { minutes to } 1 \text { hour } & {[ }\end{array}\right]^{\sim^{4}}\)} \\
More than an hour & {\(\left[\begin{array}{ll}]^{-5}\end{array}\right.\)}
\end{tabular}
2. Have you traveled away from home within Los Angeles County by public transit buses at any time within the past seven days?
\[
\begin{array}{llll}
\text { Yes }[ & ]^{\sim 1} & \text { [PLEASE ANSWER ALL REMAINING QUESTIONS IN THIS SECTION] } \\
\text { No }[]^{-2} & \text { [PLEASE SKIP TO THE BEGINNING OF THE NEXT SECTION] }
\end{array}
\]

2A. How many trips to or from home by public transit buses have you made in the past seven days? For example, going to and from work every weekday would be 10 trips.

\section*{[WRITE IN NUMBER]}

2B. Of these trips, how many were for each of the following purposes? Please write in the number beside each of the bus trip purposes listed below. [IF ANY OF YOUR. TRIPS HAD MORE THAN ONE DESTINATION, COUNT THE TRIP IN BOTH PLACES]
\[
\begin{aligned}
& \text { \# TRIPS FOR } \\
& \text { THIS. PURPOSE }
\end{aligned}
\]
\begin{tabular}{lll} 
To work or business & & 57 \\
To school & - & 58 \\
To shopping & - & 59 \\
To doctor/dentist/medical & - & 60 \\
To friends, visiting or social & - & 61 \\
To other destinations & & 62 \\
\begin{tabular}{ll} 
Returning home from above \\
\(\quad\) destinations
\end{tabular} & & 63
\end{tabular}

2C. What was the purpose of the last trip away from home by public transit buses you took during the past seven days? [CHECK MORE THAN ONE ONLY IF THE TRIP HAD A COMBINED PURPOSE]
\begin{tabular}{lll} 
To/from work or business & {\([\)} & \(]^{-1}\) \\
To/from school & {\([\)} & \(]^{\sim 2}\) \\
To/from shopping & {\([\)} & \(]^{-3}\) \\
To/from doctor/dentist/medical & {\([\)} & \(]^{-4}\) \\
To/from friends, visiting or social & {\([\)} & \(]^{\sim 5}\) \\
To/from other destinations & {\([\)} & \(]^{\sim 6}\)
\end{tabular}
3. Approximately how long did the trip take, going one way only? CHECK ONE BELOW
\begin{tabular}{lll} 
Less than 15 minutes & {[]\(^{-1}\)} & \(2 / 68\) \\
15 to 29 minutes & {[]\(^{-2}\)} & \\
A half hour to 44 minutes & {[]\(^{-3}\)} & \\
45 minutes to 1 hour & {[]\(^{-4}\)} \\
More than an hour & {[]\(^{-5}\)} &
\end{tabular}
4. What was the major reason for making this last trip by public transit bus instead of some other form of transportation? [CHECK ONE BELOW]
\[
\begin{array}{lll}
\text { I don't have a driver's license. } & {[]^{-1}} \\
\text { I have a driver's license, but no personal } & \\
\text { transportation was available to me. } & {\left[\begin{array}{l}
]^{-2} \\
\text { I prefer the bus, even though I have a license and } \\
\text { personal transportation, such as a car, van, } \\
\text { motorcycle, etc., available. }
\end{array}\right.} &
\end{array}
\]
5. How did you get to the place where you boarded the bus? Did you walk, get a ride from someone else; or drive your own car?
\[
\text { Walk }[]^{-1} \quad \text { A Ride }[]^{-2} \text {. Drive }[]^{-3}
\]
6. Did you only have to take one bus to get to your destination, or did you have to transfer buses?
\[
\begin{array}{lll}
\text { Made trip on one bus }\left[\begin{array}{ll}
]^{\sim 1} & \text { [PLEASE SKIP TO NEXT SECTION] } \\
\text { Had to transfer buses }[ & ]^{\sim 2}
\end{array}\right. & \text { [PLEASE ANSWER QUESTION 6A] }
\end{array}
\]

6A. How many different buses did you take düring this last trip?
\[
\left[\begin{array}{l}
{[1]}
\end{array} \quad\left[\begin{array}{l}
{[ }
\end{array}\right] \quad . \begin{array}{c}
{[ } \\
4
\end{array}\right]
\]
7. Do you know how close the nearest place is where you would be able to get onto a public transit bus?
\[
\begin{array}{lll}
\text { Yes } & ]^{\sim 1} & \text { [PLEASE ANSWER QUESTIONS 7A AND 7B] } \\
\text { No/Not Sure }[ & ]^{-2} & {[\text { PLEASE SKIP TO NEXT SECTION }]}
\end{array}
\]

7A. Approximately how many blocks is it from here to the nearest place to get on a public transit bus? [CHECK ONE BELOW]
\begin{tabular}{lll} 
Less than one block & {\([\)} & \(]^{\sim 1}\) \\
One to two blocks & {\([\)} & \(]^{\sim 2}\) \\
Onree to four blocks & {\([\)} & \(]^{\sim 3}\) \\
Thive to six blocks & {\([\)} & \(]^{\sim 4}\) \\
Seven to eight blocks & {\([\)} & \(]^{\sim 5}\) \\
Over eight blocks & {\([\)} & \(]^{\sim 6}\)
\end{tabular}
78. Do you know exactly where this bus line goes--that is what areas of the city it would take you to?
\[
\text { Yes }[]^{-1} \text { No }[]^{-2} \text { Not Really Sure }[]^{-3}
\]

Several services now being offered by the Southern California Rapid Transit District are listed below.
Please read through the list and put an " \(X\) " in the brackets beside each of the SCRTD services, depending on whether you have or have not heard of each one before today, and whether you have ever used that particular service.
\begin{tabular}{|c|c|c|}
\hline \[
\begin{gathered}
\text { NEVER HEARD } \\
\text { OF THIS } \\
\text { SERVICE } \\
\hline
\end{gathered}
\] & HEARD ABOUT IT, BUT NEVER USED IT & I HAVE USED THIS SERVICE \\
\hline \(-1\) & -2 & -3 \\
\hline Bus Stop Information Signs..............................[ ] & [ ] & [ ] \\
\hline Downtown Los Angeles Minibus Service...................[ ] & [ ] & [ ] \\
\hline El Monte Busway:...........................................[ ] & [ ] & [ ] \\
\hline Service to Special Attractions such as Hollywood Bowl, Ractracks, Dodger Stadium, the Rosebowl, etc...[ ] & [ ] & [ ] \\
\hline Free RTD Timetables.....................................[ ] & [ ] & [ ] \\
\hline Free RTD Section Maps....................................[ ] & [ ] & [ ] \\
\hline Free Pamphlets on RTD Service............................[ ] & [ ] & [ ] \\
\hline Monthly Pass.... ... ...........................................[ ] & [ ] & [ ] \\
\hline Park and Ride Service.....................................[ ] & [ ] & [] \\
\hline RTD Ticket Books..........................................[] \(]\) & [ ] & [ ] \\
\hline RTD Bus System Map.......................................[] \(]\) & [ ] & [ ] \\
\hline Subscription Bus Service................................[] & [ ] & [ ] \\
\hline Telephone Information Service............................[ ] & [ ] & [ ] \\
\hline
\end{tabular}

In this question, we would like to have you rate several kinds of local agencies on how good a job you think they are doing. Please read the name of each agency listed below and put an "X" in the brackets on the same line that best describes how good a job you think they are doing-mpoor, fair, good, very good, or excellent.
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline POOR & FAIR & GOOD & VERY GOOD & \[
\begin{aligned}
& \text { EXCEL- } \\
& \text { LENT } \\
& \hline
\end{aligned}
\] & NEVER HEARD DF THEM & DON'T KNOW ANYTHING ABOUT THEM & \\
\hline -1 & -2 & -3 & -4 & -5 & -6 & -7 & \\
\hline AMTRAK.......................................[ ] & [ ] & [ ] & [ ] & [ ] & [ ] & [ ] & 22 \\
\hline CALTRANS......................................[ ] & [ ] & [ ] & [ ] & [ ] & [ ] & [ ] & , \\
\hline Department of Water and Power (DWP)......[ ] & [ ] & [ ] & [ ] & [ ] & [ ] & [ ] & \\
\hline City of Los Angeles........................[ ] & [ ] & [ ] & [ ] & [ ] & [ ] & [ ] & 25 \\
\hline Los Angeles County..........................[] & [ ] & [ ] & [ ] & [ ] & [ ] & [ ] & \\
\hline Metropolitan Water District (MWD)........[ ] & [ ] & [ ] & [ ] & [ ] & [ ] & [ ] & \\
\hline Southern California Rapid Transit Dist̂rict (SCRTD)................................[ ] & [ ] & [ ] & [ ] & [ ] & [ ] & [ ] & 28 \\
\hline
\end{tabular}
1. Please put an " \(X\) " in the brackets that best describe how often you read each of the following Los Angeles newspapers, on the average.
\begin{tabular}{|c|c|c|c|c|c|}
\hline NEVER & \[
\begin{gathered}
\text { VERY } \\
\text { SELDOM } \\
\hline
\end{gathered}
\] & \[
\begin{aligned}
& \text { OCCASION- } \\
& \text { ALLE } \\
& \hline
\end{aligned}
\] & FAIRLY & \begin{tabular}{l}
ALMOST \\
EVERY \\
DAY
\end{tabular} & \\
\hline \(\sim 1\) & \(\sim 2\) & \(\sim 3\) & \(\sim 4\) & -5 & \\
\hline Civic Center News.....................[] & [ ] & [ ] & [ ] & [ ] & \({ }^{3} / 29\) \\
\hline Downtown News.........................[ [ ] & [ ] & [ ] & [ ] & [ ] & \\
\hline The Enterprise.......................[ ] & [ ] & [ ] & [ ] & [ ] & \\
\hline Herald-Examiner ] & [ ] & [ ] & [ ] & [ ] & \\
\hline Hollywood Independent...............[] & [ ] & [ ] & [ ] & [ ] & 33 \\
\hline Imagen.................................[] & [ ] & [ ] & [ ] & [ ] & \\
\hline La Opinion...........................[] & [ ] & [ ] & [ ] & [ ] & \\
\hline La Prensa.............................[] & [ ] & [ ] & [ ] & [ ] & \\
\hline L. A. Sentinal........................[] & [ ] & [ ] & [ ] & [ ] & 37 \\
\hline Long Beach Independent PressTelegram. \(\qquad\) ] & [ ] & [ ] & [ ] & [ ] & \\
\hline Los Angeles Times....................[ ] & [ ] & [ ] & [ ] & [ ] & \\
\hline Pasadena Star-News....................[] & [ ] & [ ] & [ ] & [ ] & \\
\hline Pico Post............................ [ ] & [ ] & [ ] & [ ] & [ ] & 41 \\
\hline San Gabriel Valley Tribune..........[] & [ ] & [ ] & [ ] & [ ] & \\
\hline Santa Monica Evening Outlook........[ ] & [ ] & [ ] & [ ] & [ ] & \\
\hline South Bay Daily Breeze...............[ ] & [ ] & [ ] & [ ] & [ ] & \\
\hline Daily News (Valley News and Green Sheet) \(\qquad\) & [ ] & [ ] & [ ] & [ ] & \\
\hline Wilshire Press......................[] & [ ] & [ ] & [ ] & [ ] & 46 \\
\hline
\end{tabular}
2. Please put an "X" in the brackets that best describe how often you read each of the following magazines, on the average.
\begin{tabular}{|c|c|c|c|c|c|}
\hline 号. & NEVER & \[
\begin{gathered}
\text { VERY } \\
\text { SELDOM }
\end{gathered}
\] & \[
\begin{aligned}
& \text { OCCASION- } \\
& \text { ALLY } \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { FAIRLY. } \\
& \text { OFTEN }
\end{aligned}
\] & ALMOST EVERY OAY \\
\hline & \(\sim 1\) & \(\sim 2\) & ~3 & \(\sim\) & \(\sim 5\) \\
\hline Mr. Te Ve & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline Los Angeles Magazine & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline New West & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline Sunset & [ ] & [ ] & [ ] & [ ] & [.] \\
\hline T.V. Guide & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline "You" (Los Angeles Times) & [ ] & [ ] & [ ] & [ ] & [ ] \\
\hline
\end{tabular}
3. Please check the amount of time you spend on an average day in listening to AM and FM radio stations, watching television, reading newspapers, and magazines.
\begin{tabular}{|c|c|c|c|c|}
\hline NONE & \begin{tabular}{l}
UNDER \\
1 HOUR
\end{tabular} & 1702 HOURS & MORE THAN 2 HOURS & \\
\hline \(\sim 1\) & -2 & -3 & \(\sim 4\) & \\
\hline Listening to FM radio stations......[ ] & [ ] & [ ] & [ ] & \(\left.{ }^{3}\right|^{53}\) \\
\hline Listening to AM radio stationa......[ ] & [ ] & [ ] & [ ] & \\
\hline Watching television programs..........[ ] & [ ] & [ ] & [ ] & \\
\hline Reading newspapers....................[] & [ ] & [ ] & [ ] & \\
\hline Reading magazines..................[] & [ ] & [ ] & [ ] & 57 \\
\hline
\end{tabular}

HOUSEHOLD AND PERSONAL CLASSIFICATION DATA

The classification questions in this section have to do with both yourself and the head of your household, if other than yourself. For each question, please check one of the answers for yourself, and one for the head of your household if any.
\begin{tabular}{|c|c|}
\hline APPROXIMATE YEARLY INCOME & Yourself Household \\
\hline No Income. & [ \(]^{-1}\) \\
\hline \$1 to \$5,000 & []\(^{-2}[\quad]^{-2}\) \\
\hline \$5,000 to \$7,499. & []\(^{-3}[\quad]^{-3}\) \\
\hline \$7,500 to \$9,999. & []\(^{-4}[]^{-4}\) \\
\hline \$10,000 to \$14,999. & []\(^{-5}[]^{\sim}\) \\
\hline \$15,000 to \$19,999. & []\(^{-6}[]^{-6}\) \\
\hline \$20.000 to \$24,999. & []\(^{-7}[]^{-7}\) \\
\hline \$25,000 to \$29,999. & []\(^{-8}\left[[]^{-8}\right.\) \\
\hline \$30,000 to \$39,999. & []\(^{\sim 9}[]^{\sim 9}\) \\
\hline \$40,000 and over. & []\(^{-0}[]^{-0}\) \\
\hline & \(64 \quad\)\begin{tabular}{c}
66 \\
Head of
\end{tabular} \\
\hline AGE & Yourself Househald \\
\hline
\end{tabular}

12 to 15 years:.....................[ \(]^{\sim}\).
16 to 19 years.................... []\(^{-2}[]^{\sim}\)
20 to 24 years..................... \(]^{\sim^{3}} \quad[]^{-3}\)
25 to 29 years.....................[ \(]^{-4}[]^{-4}\)
30 to 34 years......................[ \(]^{\sim} \quad[\quad]^{\sim}\)
35 to 39 years...................... []\(^{\sim 6} \quad[\quad]^{\sim}\)
40 to 44 years.....................[ \(]^{-7}[]^{-7}\)
45 to 49 years..................... [ \(]^{\sim 8} \quad[\quad]^{-8}\)
50 to 54 years...................... []\(^{-9}[]^{-9}\)
55 to 59 years......................[ \(]^{\sim} \quad[\quad]^{\sim}\)
60 to 61 years:...................[ \(]^{-x}[]^{\sim x}\)
62 to 64 years.....................[ \(]^{-R} \quad[]^{\sim R}\)
65 years or more..................[ \(]^{-1}[]^{-1}\)
\begin{tabular}{|c|c|}
\hline 60 & 62 \\
\hline OCCUPATION Yourself & Head of Household \\
\hline General Office/Clerical.........[ \(]^{-1}\) & []\(^{-1}\) \\
\hline Management...................... []\(^{\sim}\) & []\(^{-2}\) \\
\hline Proprietor......................[ \(]^{-3}\) & []\(^{-3}\) \\
\hline Professional.....................[ \(]^{\sim^{4}}\) & []\(^{-4}\) \\
\hline Sales............................... []\(^{-5}\) & []\(^{-5}\) \\
\hline Skilled/Semi-Skilled/Labor.......[ \(]^{-6}\) & []\(^{\sim}\) \\
\hline Technical........................[ \(]^{-7}\) & [ ] 7 \\
\hline Service Worker.................. [ \(]^{-8}\) & []\(^{-8}\) \\
\hline Unskilled Labor.................... [ \(]^{\text {-9. }}\) & []\(^{-9}\) \\
\hline High School or College Student.. [ \(]^{-0}\) & [ ] 0 \\
\hline Retired...........................[ \(]^{-x}\) & [ \(]^{-x}\) \\
\hline Not Employed.....................[ \(]^{\sim}\) R & [ ] R \\
\hline \multicolumn{2}{|l|}{Other} \\
\hline \multicolumn{2}{|l|}{[PLEASE WRITE IN]} \\
\hline 68 & 69 \\
\hline LAST SCHOOL ATTENDED Yourself & Head of Household \\
\hline Grade School........................[ \(]^{-1}\) & [ ] \({ }^{-1}\) \\
\hline High School....................... []\(^{\text {2 }}\) & []\(^{-2}\) \\
\hline Trade School......................[ \(]^{-3}\) & []\(^{-3}\) \\
\hline College (1 or 3 years)..........[ [ \(]^{-4}\) & [. \(]^{-4}\) \\
\hline College ( 4 years or more),......[ [ ] 5 & []\(^{-5}\) \\
\hline Posit Graduate.................... []\(^{-6}\) & []\(^{-6}\) \\
\hline
\end{tabular}

The classification questions in the following section have to so with you personally not with yotir household or the people you share your residence with.
1. What is your marital status? Narried [ \(]^{-1} \quad\) Not Married [ \(]^{-2} \quad{ }^{3} \mid 70\)
2. What is your sex? Male []\(^{-1}\) Female []\(^{-2}\)
3. How long have you lived in Los Angeles County? \(\qquad\) Years \(\qquad\) Months
4. Do you currently have a valid California driver's licence? Yes [ \(]^{-1}\) No []\(^{-2}\)
5. Do you participate in a car pool to get to and from work?
\[
\text { Yes - Private }[]^{-1} \text {, Yes - Sponsored by company }[]^{-2} \text { No }[.]^{-3} 75
\]
6. Do you personally own an automobile, van, truck or other form of motorized personal transportation?
\[
\operatorname{Yes}[]^{-1} \text { No }[]^{-2}
\]
7. Do you have the use of an automobile; van, truck or other form of motorized personal transportation?
\[
\begin{array}{lll}
\text { Yes }[]^{-1} & \text { How often? } & \left.\begin{array}{l}
\text { All of the time }
\end{array}\right] \begin{array}{l}
{[]^{-1}} \\
\text { No }[]^{-2}
\end{array} \\
& \text { Occasionally } & {[]^{-2}} \\
\text { Special occasions }[]^{-3}
\end{array}
\]
8. Are you currently a member of a labor union?

Yes []\(^{\sim}\) No [ ]~2

THANK YOU FOR YOUR COOPERATION. PLEASE RETURN THIS QUESTIONNAIRE IN THE ENVELOPE PROVIOED

\section*{FOR OFFICF IISF ONLY}
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[^0]:    Note: * = Less than $1 \%$

