## Puerto Rico: Impact of the Car Seat Campaign

Final Report

Submitted to: Traffic Safety Commission of Puerto Rico


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## INTRODUCTION

In November of 2021, the Traffic Safety Commission of Puerto Rico (CST for its Spanish acronym) hired the firm Estudios Técnicos, Inc., to design and conduct a survey to assess the impact of the car seat campaign, utilizing a research methodology in compliance with the National Highway Traffic Safety Administration (NHTSA) requirements. This report presents the results of the survey, conducted from November 12 of 2021 through February 8, 2022.

## METHODOLOGY

A telephone survey was made to residents in Puerto Rico 16 years or older with an active driver's license, father, mother, guardian or responsible for a child between 0 to 8 years old. The survey used a probabilistic sample. Telephone numbers were randomly chosen among a list of residential and mobile phone numbers generated randomly from a sample based on "Random Digit Dialing" (RDD). Based on the selected sample type, the estimated sampling error is $\pm 4.4 \%$ with a confidence level of $95 \%$.

The research instrument for data collection consisted of a telephone interview using a Computer Assisted Telephone Interviewing System (CATI), by the Estudios Técnicos, Inc. staff.

## FINDINGS

## DEMOGRAPHIC PROFILE

The general demographic profile of the sample follows:
The sample gender distribution consisted of 171 males ( $34.2 \%$ ) and 329 females ( $65.8 \%$ ). The median age was 38 and average age of the sample was 40 years old. The youngest participant had 17 years and the oldest was 84 years old.

Gender of the interviewee

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Male | 171 | $34.2 \%$ |
| Female | 329 | $65.8 \%$ |
| Total | 500 | $100.0 \%$ |
| $\mathrm{~N}=500$ |  |  |


| Age |  |
| :--- | :---: |
|  | Freq. |
| 16 to 24 | 29 |
| 25 to 34 | 165 |
| 35 to 44 | 159 |
| 45 to 59 | 100 |
| 60 or older | 45 |
| Total | 498 |
| Mean | 40 |
| Median | 38 |
| Minimum | 17 |
| Maximum | 84 |

$N=500$.
The average and median household size was three persons, including the participants.

| How many people live in your household, <br> including yourself? |  |
| :--- | :---: |
| Mean | Frec. |
| Median | 3 |
| Minimum | 3 |
| Maximum | 1 |

$\mathrm{N}=490.10$ did not respond.

One out of three participants (38.6\%) had a bachelor's degree, while one out of four (24.6\%) had an associate degree or some years of college. The median academic degree of the sample was a Bachelor's Degree while more than $80 \%$ of the sample had some college education.

Could you please tell me the last academic degree you completed?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| High School or less | 13 | $2.6 \%$ |
| High School Diploma | 74 | $14.8 \%$ |
| Associate Degree or some years of college | 123 | $24.6 \%$ |
| Bachelor's Degree | 193 | $38.6 \%$ |
| Master's Degree | 70 | $14.0 \%$ |
| Doctorate Degree | 17 | $3.4 \%$ |
| Does not say | 10 | $2.0 \%$ |
| Total | 500 | $\mathbf{1 0 0 . 0 \%}$ |
| N=500. |  |  |

More than a half ( $60.6 \%$ ) of the participants are currently "working full time," while 12.4 percent are "working part time."

What is your current occupational status?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Working full time | 303 | $60.6 \%$ |
| Working part time | 62 | $12.4 \%$ |
| Only studying | 4 | $0.8 \%$ |
| Working and studying | 18 | $3.6 \%$ |
| Retired / Pensioner | 51 | $10.2 \%$ |
| Unemployed | 13 | $2.6 \%$ |
| Housekeeper | 43 | $8.6 \%$ |
| Maternity | 2 | $0.4 \%$ |
| Does not say | 4 | $0.8 \%$ |
| Total | 500 | $\mathbf{1 0 0 . 0 \%}$ |
| $\mathrm{~N}=500$. |  |  |

More than a half (52.4\%) of the participants are married and one out of five (22.8\%) is single.

## Civil status

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Married | 262 | $52.4 \%$ |
| Single | 114 | $22.8 \%$ |
| Cohabiting | 75 | $15.0 \%$ |
| Divorced | 31 | $6.2 \%$ |
| Widowed | 9 | $1.8 \%$ |
| Does not say | 9 | $1.8 \%$ |
| Total | 500 | $100.0 \%$ |
| $\mathrm{~N}=500$ |  |  |

The median household income was between " $\$ 25,001$ and $\$ 35,000$ " per year.

What is your annual household income?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Up to $\$ 15,000$ | 105 | $21.0 \%$ |
| $\$ 15,001-\$ 25,000$ | 88 | $17.6 \%$ |
| $\$ 25,001-\$ 35,000$ | 65 | $13.0 \%$ |
| $\$ 35,001-\$ 50,000$ | 64 | $12.8 \%$ |
| $\$ 50,001-\$ 75,000$ | 53 | $10.6 \%$ |
| $\$ 75,001$ or more | 38 | $7.6 \%$ |
| Does not say | 87 | $17.4 \%$ |
| Total | 500 | $100.0 \%$ |
| $\mathrm{~N}=500$. |  |  |

## GENERAL DRIVING HABITS

Most of the participants of the study (79\%) drive their vehicles "every day", while one percent drive "once a week".

How often do you drive a motor vehicle?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Every day | 395 | $79.0 \%$ |
| Almost every day | 66 | $13.2 \%$ |
| Several times a week | 33 | $6.6 \%$ |
| Once a week | 6 | $1.2 \%$ |
| Total | 500 | $\mathbf{1 0 0 . 0 \%}$ |
| $\mathrm{~N}=500$ |  |  |

"SUV" is the most frequent vehicle used among participants (45.6\%), followed by "Regular car" (45.0\%). Also, almost one out of 10 (6.8\%) reported the use of a "pick-up truck or trucks".
¿What type of motor vehicle do you drive most frequently?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| SUV | 228 | $45.6 \%$ |
| Regular car | 225 | $45.0 \%$ |
| Pick-up truck or truck | 34 | $6.8 \%$ |
| Mini van | 8 | $1.6 \%$ |
| Van | 5 | $1.0 \%$ |
| Does not know / Does not say | 0 | $0.0 \%$ |
| Total | 500 | $100.0 \%$ |
| $\mathrm{~N}=500$. |  |  |

In a typical weekday, the median amount of time participants spends driving is three hours. In a typical weekend the median amount of time participants spends driving is two hours and thirty minutes. The minimum time reported on weekdays was ten minutes, while on weekends some participants do not spend time driving.

On average, during a typical day of the week, approximately how much time do you spend driving a vehicle?

| Mean | 3 hours 2 minutes |
| :--- | :---: |
| Median | 2 hours |
| Minimum | 10 minutes |
| Maximum | 18 hours |

$\mathrm{N}=492.8$ did not respond.

On average, during a typical day of the weekend, approximately how much time do you spend driving a vehicle?

| Mean | 2 hours 31 minutes |
| :--- | :---: |
| Median | 2 hour |
| Minimum | Does not drive |
| Maximum | 16 hours |
| $\mathrm{N}=487.106$ did not respond. |  |

During the week, three of every four participants (74.8\%) drive to "work," followed by "Son/grandson or dependent school" (45.8\%) and "medical appointments" (33.2\%). On
weekends, the most frequent driving activity is "Shopping" (52.6\%) while driving to "work" dropped to $19.2 \%$. Also, almost five out of ten participants (48.4\%) reported driving for "Visiting family and friends" on weekends.

During a typical day of the week, to where do you drive or which places do you visit?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Work | 374 | $74.8 \%$ |
| Son / grandson or dependant school | 229 | $45.8 \%$ |
| Medical appointments | 166 | $33.2 \%$ |
| Shopping (grocery store, etc.) | 139 | $27.8 \%$ |
| Visiting family and friends | 117 | $23.4 \%$ |
| Entertainment (movie theater, the beach, the park, etc.) | 50 | $10.0 \%$ |
| School / College | 48 | $9.6 \%$ |
| Traveling around different places and spending most of the time | 39 | $7.8 \%$ |
| inside the vehicle |  | 10 |
| Church | $6.0 \%$ |  |
| Errands | 6 | $1.2 \%$ |
| Child training | 4 | $0.8 \%$ |
| Gym | 4 | $0.8 \%$ |
| Tutoring | 3 | $0.6 \%$ |
| Charities | 1 | $0.2 \%$ |
| Pharmacy | 1 | $0.2 \%$ |
| Therapy | 1 | $0.2 \%$ |
| Does not go out | 1 | $0.2 \%$ |
| Total | 500 | - |

$N=500$. The sum of percentages may be different to $100 \%$ since this is a multiple answer question, therefore and independent count is performed for each of the answers mentioned.

During a typical day of the weekend, to where do you drive or which places do you visit?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Shopping (grocery store, etc.) | 263 | $52.6 \%$ |
| Visiting family and friends | 242 | $48.4 \%$ |
| Entertainment (movie theater, the beach, the park, etc.) | 206 | $41.2 \%$ |
| Traveling around different places and spending most of the time inside | 171 | $34.2 \%$ |
| the vehicle | 96 | $19.2 \%$ |
| Work | 62 | $12.4 \%$ |
| Medical appointments | 31 | $6.2 \%$ |
| Church | 8 | $1.6 \%$ |
| School / College | 8 | $1.6 \%$ |
| Does not drive on weekends | 5 | $1.0 \%$ |
| Child Sport Games | 4 | $0.8 \%$ |
| Errands | 3 | $0.6 \%$ |
| Pharmacy | 1 | $0.2 \%$ |
| Restaurant | 1 | $0.2 \%$ |
| Laundry | 1 | $0.2 \%$ |
| Pick up kids | 1 | $0.2 \%$ |
| With Children | 23 | $4.6 \%$ |
| Does not know / Does not say | 500 | - |
| Total |  |  |

$N=500$. The sum of percentages may be different to $100 \%$ since this is a multiple answer question, therefore and independent count is performed for each of the answers mentioned.

In a scale from one to ten, in which ten was defined as very good, the score selected by almost 3 out of 10 participants (27.6\%) was "very bad", and only $2.8 \%$ rated the driving experience in Puerto Rico as "very good". The median is four.

On a scale from 1 to 10 , in which 10 means "very good" and 1 means "very bad", according to your experience, how would you rate driving in Puerto

Rico?

| Rico? |  |  |
| :--- | :---: | :---: |
| 1 - Very bad | Freq. | $\%$ |
| 2 | 138 | $27.6 \%$ |
| 3 | 27 | $5.4 \%$ |
| 4 | 39 | $7.8 \%$ |
| 5 | 47 | $9.4 \%$ |
| 6 | 104 | $20.8 \%$ |
| 7 | 36 | $7.2 \%$ |
| 8 | 49 | $9.8 \%$ |
| 9 | 32 | $6.4 \%$ |
| $10-$ Very good | 13 | $2.6 \%$ |
| Does not know / Does not say | 14 | $2.8 \%$ |
| Total | 1 | $0.2 \%$ |
| N=500 | 500 | $100.0 \%$ |

"Distracted drivers" was identified (62.0\%) as the main issue of safety concern of Puerto Rico's roads. Also, $61.0 \%$ mentioned "Road conditions" as their secondary concern, while two out of five ( $56.8 \%$ ) identified "speed" as their main concern.

Which would you say are the three main issues of concern in terms of your safety on the roads of Puerto Rico? (Total)

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Distracted drivers | 310 | $62.0 \%$ |
| Road conditions | 305 | $61.0 \%$ |
| Speed | 284 | $56.8 \%$ |
| Drunk drivers | 186 | $37.2 \%$ |
| Lane cutters | 112 | $22.4 \%$ |
| Drivers running red light | 61 | $12.2 \%$ |
| Riders on horsebacks | 41 | $8.2 \%$ |
| Motorbikes | 33 | $6.6 \%$ |
| Stray animals | 31 | $6.2 \%$ |
| Cyclists on the road | 27 | $5.4 \%$ |
| Pedestrians | 17 | $3.4 \%$ |
| Other | 60 | $12.0 \%$ |
| Total | 500 | - |

$N=500$. The sum of percentages may be different to $100 \%$ since this is a multiple answer question, therefore and independent count is performed for each of the answers mentioned.

Which would you say are the three main issues of concern in terms of your safety on the roads of Puerto Rico? (First priority)

| your safety on the roads of Puerto Rico? (First priority) |  |  |
| :--- | :---: | :---: |
| Speed | Freq. | $\%$ |
| Drunk drivers | 284 | $56.8 \%$ |
| Distracted drivers | 89 | $17.8 \%$ |
| Road conditions | 88 | $17.6 \%$ |
| Motorbikes | 32 | $6.4 \%$ |
| Cyclists on the road | 3 | $0.6 \%$ |
| Drivers running red light | 3 | $0.6 \%$ |
| Total | 1 | $0.2 \%$ |

$N=500$.

Which would you say are the three main issues of concern in terms of your safety on the roads of Puerto Rico? (Second priority)

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Distracted drivers | 186 | $37.2 \%$ |
| Road conditions | 132 | $26.4 \%$ |
| Drunk drivers | 97 | $19.4 \%$ |
| Lane cutters | 17 | $3.4 \%$ |
| Motorbikes | 12 | $2.4 \%$ |
| Pedestrians | 11 | $2.2 \%$ |
| Cyclists on the road | 9 | $1.8 \%$ |
| Riders on horsebacks | 9 | $1.8 \%$ |
| Drivers running red light | 6 | $1.2 \%$ |
| Stray animals | 3 | $0.6 \%$ |
| Road Signs | 3 | $0.6 \%$ |
| Elderly driving | 2 | $0.4 \%$ |
| Illumination | 2 | $0.4 \%$ |
| Damaged traffic lights | 1 | $0.2 \%$ |
| Heavy traffic | 1 | $0.2 \%$ |
| Truckers drive improperly | 1 | $0.2 \%$ |
| People not following transit rules | 1 | $0.2 \%$ |
| Lack of empathy | 1 | $0.2 \%$ |
| Not using signal lights | 1 | $0.2 \%$ |
| Carjacking | 1 | $0.2 \%$ |
| Does not say | 4 | $0.8 \%$ |
| Total | 500 | $100.0 \%$ |
| N=500. |  |  |

Which would you say are the three main issues of concern in terms of your safety on the roads of Puerto Rico? (Third priority)

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Road conditions | 141 | $28.2 \%$ |
| Lane cutters | 95 | $19.0 \%$ |
| Drivers running red light | 54 | $10.8 \%$ |
| Distracted drivers | 36 | $7.2 \%$ |
| Riders on horsebacks | 32 | $6.4 \%$ |
| Stray animals | 28 | $5.6 \%$ |
| Does not say | 25 | $5.0 \%$ |
| Motorbikes | 18 | $3.6 \%$ |
| Illumination | 16 | $3.2 \%$ |
| Cyclists on the road | 15 | $3.0 \%$ |
| Pedestrians | 6 | $1.2 \%$ |
| People not following transit rules | 5 | $1.0 \%$ |
| Phone use | 5 | $1.0 \%$ |
| Lack of empathy | 3 | $0.6 \%$ |
| Cyclists | 2 | $0.4 \%$ |
| Damaged traffic lights | 2 | $0.4 \%$ |
| Illumination, road lines | 2 | $0.4 \%$ |
| Road Signs | 2 | $0.4 \%$ |
| Security | 2 | $0.4 \%$ |
| Ajar | 1 | $0.2 \%$ |
| Car to car shootings | 1 | $0.2 \%$ |
| Conducir por el paseo | 1 | $0.2 \%$ |
| Driving against traffic | 1 | $0.2 \%$ |
| Kids without seat belt | 1 | $0.2 \%$ |
| Old people driving | 1 | $0.2 \%$ |
| Pedestrians crossing | 1 | $0.2 \%$ |
| Police assistance | 1 | $0.2 \%$ |
| Putting make up while driving | 1 | $0.2 \%$ |
| Road conditions | 1 | $0.2 \%$ |
| Four tracks | 1 | $0.2 \%$ |
| Uninsurred | 1 | $0.2 \%$ |
| Total | $92.0 \%$ |  |
| N=500 |  |  |
|  | 100 |  |

## CAR SEAT PROTECTION FOR MINORS BETWEEN CERO AND EIGHT YEARS

When asked about the use of the car seat when driving or traveling with a child of cero to eight years old, most of the participants ( $94.8 \%$ and 94.6 , respectively) mentioned they "always" used the car seat.

How often do you use the car seat when you drive a vehicle with a child between 0 to 8 years old?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Always | 474 | $94.8 \%$ |
| Almost always | 10 | $2.0 \%$ |
| Sometimes | 0 | $0.0 \%$ |
| Rarely | 3 | $0.6 \%$ |
| Never | 11 | $2.2 \%$ |
| Does not say | 2 | $0.4 \%$ |
| Total | 500 | $100.0 \%$ |
| $\mathrm{~N}=500$ |  |  |

How often do you use the car seat when you travel in a vehicle with a child between 0 to 8 years old?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Always | 473 | $94.6 \%$ |
| Almost always | 10 | $2.0 \%$ |
| Sometimes | 0 | $0.0 \%$ |
| Rarely | 4 | $0.8 \%$ |
| Never | 9 | $1.8 \%$ |
| Does not know / Does not say | 4 | $0.8 \%$ |
| Total | 500 | $100.0 \%$ |

$\mathrm{N}=500$.

On average, the participants indicated to travel with one child in the car.
Typically, how many children between 0 to 8 years old travel with you in the vehicle?

| Mean | 1.4 children |
| :--- | :---: |
| Median | 1 children |
| Minimum | 1 children |
| Maximum | 4 children |
| Sum | 674 children |
| $N=496.4$ didnot |  |

$\mathrm{N}=496.4$ did not respond.

In relation to the age of the children and the type of car seat that the child uses in the vehicle, from ages cero to five almost all children use the standard car seat. Once the
children reached five years, the participants move them to the booster seat. From six years and above, people tend to have their children ether on a booster seat or without any protector seat.

What is the age of those children traveling with you in the vehicle?/ What type of seat does the child use, typically, with you in the vehicle?

|  | Car seat |  | Booster |  | None |  | Does not know $/$ <br> Does not apply |  |  |  |  |  |  |  |  | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age | Freq. | $\%$ | Freq. | $\%$ | Freq. | $\%$ | Freq. | $\%$ | Freq. | $\%$ |  |  |  |  |  |
| 0 | 19 | $4.7 \%$ | 1 | $0.4 \%$ | 0 | $0.0 \%$ | 2 | $12.5 \%$ | 22 | $3.3 \%$ |  |  |  |  |  |  |
| 1 | 70 | $17.4 \%$ | 1 | $0.4 \%$ | 0 | $0.0 \%$ | 0 | $0.0 \%$ | 71 | $10.5 \%$ |  |  |  |  |  |  |
| 2 | 51 | $12.7 \%$ | 1 | $0.4 \%$ | 0 | $0.0 \%$ | 1 | $6.3 \%$ | 53 | $7.9 \%$ |  |  |  |  |  |  |
| 3 | 67 | $16.6 \%$ | 7 | $2.9 \%$ | 0 | $0.0 \%$ | 1 | $6.3 \%$ | 75 | $11.1 \%$ |  |  |  |  |  |  |
| 4 | 46 | $11.4 \%$ | 12 | $5.0 \%$ | 0 | $0.0 \%$ | 1 | $6.3 \%$ | 59 | $8.8 \%$ |  |  |  |  |  |  |
| 5 | 65 | $16.1 \%$ | 32 | $13.4 \%$ | 2 | $11.8 \%$ | 0 | $0.0 \%$ | 99 | $14.7 \%$ |  |  |  |  |  |  |
| 6 | 44 | $10.9 \%$ | 52 | $21.8 \%$ | 3 | $17.6 \%$ | 1 | $6.3 \%$ | 100 | $14.8 \%$ |  |  |  |  |  |  |
| 7 | 18 | $4.5 \%$ | 44 | $18.5 \%$ | 4 | $23.5 \%$ | 1 | $6.3 \%$ | 67 | $9.9 \%$ |  |  |  |  |  |  |
| 8 | 15 | $3.7 \%$ | 84 | $35.3 \%$ | 8 | $47.1 \%$ | 0 | $0.0 \%$ | 107 | $15.9 \%$ |  |  |  |  |  |  |
| Does not say | 8 | $2.0 \%$ | 4 | $1.7 \%$ | 0 | $0.0 \%$ | 9 | $56.3 \%$ | 21 | $3.1 \%$ |  |  |  |  |  |  |
| Total | 403 | $100.0 \%$ | 238 | $100.0 \%$ | 17 | $100.0 \%$ | 16 | $100.0 \%$ | 674 | $100.0 \%$ |  |  |  |  |  |  |

$\mathrm{n}=674$ children.

In terms of the participant's knowledge about the age, weight and height needed to use the car seat, the profile is as follows. The median age was eight years old; the median weight was 60 pounds, and the median height was about four feet tall.

According to what you know, up to what age, weight or height should a child between 0 and 8 years old use the car seat?

|  | Freq | $\%$ | Mean | Median | Mode |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Age | $\mathrm{N}=260$ | $52.0 \%$ | 7 years | 8 years | 8 years |
| Weight | $\mathrm{N}=158$ | $31.6 \%$ | 60 pounds | 60 pounds | 60 pounds |
| Height | $\mathrm{N}=32$ | $6.4 \%$ | 48 inches | 48 inches | 48 inches |

According to what you know, up to what age should a child between 0 and 8 years old use the car seat?

| Age | Freq. | $\%$ |
| :--- | :---: | :---: |
| 0 | 4 | $1.5 \%$ |
| 1 | 1 | $0.4 \%$ |
| 2 | 6 | $2.3 \%$ |
| 3 | 4 | $1.5 \%$ |
| 4 | 21 | $8.1 \%$ |
| 5 | 52 | $20.0 \%$ |
| 6 | 22 | $8.5 \%$ |
| 7 | 17 | $6.5 \%$ |
| 8 | 88 | $33.8 \%$ |
| 9 | 11 | $4.2 \%$ |
| 10 | 17 | $6.5 \%$ |
| 11 | 7 | $2.7 \%$ |
| 12 | 15 | $5.8 \%$ |
| Total | 260 | $100.0 \%$ |
| Mean | 7 years |  |
| Median | 8 years |  |
| N=265. |  |  |

According to what you know, up to what weight should a child between 0 and 8 years old use the car seat?

| Pounds | Freq. | $\%$ |
| :--- | :---: | :---: |
| 0 | 20 | $12.7 \%$ |
| 5 | 1 | $0.6 \%$ |
| 20 | 1 | $0.6 \%$ |
| 30 | 7 | $4.4 \%$ |
| 35 | 3 | $1.9 \%$ |
| 40 | 11 | $7.0 \%$ |
| 42 | 1 | $0.6 \%$ |
| 45 | 2 | $1.3 \%$ |
| 48 | 1 | $0.6 \%$ |
| 50 | 13 | $8.2 \%$ |
| 55 | 5 | $3.2 \%$ |
| 56 | 2 | $1.3 \%$ |
| 60 | 21 | $13.3 \%$ |
| 65 | 3 | $1.9 \%$ |
| 70 | 9 | $5.7 \%$ |
| 75 | 3 | $1.9 \%$ |
| 80 | 20 | $12.7 \%$ |
| 90 | 9 | $5.7 \%$ |
| 100 | 21 | $13.3 \%$ |
| 110 | 1 | $0.6 \%$ |
| 120 | 3 | $1.9 \%$ |
| 180 | 1 | $0.6 \%$ |
| Total | 158 | $100.0 \%$ |
| Mean | 60 pounds |  |
| Median | 60 pounds |  |
| =158. |  |  |

According to what you know, up to what height should a child between 0 and 8 years old use the car seat?

| Inches | Freq. | $\%$ |
| :--- | :---: | :---: |
| 30 | 1 | $3.1 \%$ |
| 36 | 4 | $12.5 \%$ |
| 39 | 1 | $3.1 \%$ |
| 42 | 1 | $3.1 \%$ |
| 46 | 1 | $3.1 \%$ |
| 48 | 14 | $43.8 \%$ |
| 51 | 1 | $3.1 \%$ |
| 53 | 2 | $6.3 \%$ |
| 54 | 2 | $6.3 \%$ |
| 55 | 2 | $6.3 \%$ |
| 57 | 1 | $3.1 \%$ |
| 59 | 1 | $3.1 \%$ |
| 60 | 1 | $3.1 \%$ |
| Total | 32 | $100.0 \%$ |
| Mean | 48 inches |  |
| Median | 48 inches |  |
| $N=32$. |  |  |

The same question was asked about the use of the booster seat, and the profile is as follows. The median age was seven years old with a median weight of 60 pounds and a median height of four feet.

According to what you know, up to what age, weight or height should a child between 0 and 8 years old use the booster?

|  | Freq | $\%$ | Mean | Median | Mode |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Age | $\mathrm{N}=224$ | $44.8 \%$ | 7 years | 7 years | 8 years |
| Weight | $\mathrm{N}=79$ | $15.8 \%$ | 62 pounds | 60 pounds | 50 pounds |
| Height | $\mathrm{N}=11$ | $2.2 \%$ | 49 inches | 48 inches | 48 inches |

According to what you know, at what age can a child be changed to a booster seat?

| Years | Freq. | $\%$ |
| :--- | :---: | :---: |
| 1 | 1 | $0.4 \%$ |
| 2 | 2 | $0.9 \%$ |
| 3 | 6 | $2.7 \%$ |
| 4 | 18 | $8.0 \%$ |
| 5 | 36 | $16.1 \%$ |
| 6 | 31 | $13.8 \%$ |
| 7 | 30 | $13.4 \%$ |
| 8 | 60 | $26.8 \%$ |
| 9 | 14 | $6.3 \%$ |
| 10 | 14 | $6.3 \%$ |
| 11 | 2 | $0.9 \%$ |
| 12 | 10 | $4.5 \%$ |
| Total | 224 | $100 \%$ |
| Mean | 7 years |  |
| Median | 7 years |  |
| $N=224$. |  |  |

According to what you know, at what pounds can a child be changed to a booster seat?

| Pounds | Freq. | $\%$ |
| :--- | :---: | :---: |
| 20 | 1 | $1.3 \%$ |
| 30 | 4 | $5.1 \%$ |
| 35 | 2 | $2.5 \%$ |
| 40 | 5 | $6.3 \%$ |
| 42 | 2 | $2.5 \%$ |
| 45 | 2 | $2.5 \%$ |
| 50 | 21 | $26.6 \%$ |
| 55 | 1 | $1.3 \%$ |
| 56 | 1 | $1.3 \%$ |
| 60 | 7 | $8.9 \%$ |
| 61 | 1 | $1.3 \%$ |
| 65 | 6 | $7.6 \%$ |
| 70 | 1 | $1.3 \%$ |
| 75 | 3 | $3.8 \%$ |
| 80 | 13 | $16.5 \%$ |
| 100 | 7 | $8.9 \%$ |
| 110 | 2 | $2.5 \%$ |
| Total | 79 | $100.0 \%$ |
| Mean | 62 pounds |  |
| Median | 60 pounds |  |
| N=79. |  |  |

According to what you know, at what inches can a child be changed to a booster seat?

| Inches | Freq. | $\%$ |
| :--- | :---: | :---: |
| 36 | 1 | $9.1 \%$ |
| 46 | 1 | $9.1 \%$ |
| 48 | 5 | $45.5 \%$ |
| 53 | 1 | $9.1 \%$ |
| 54 | 2 | $18.2 \%$ |
| 58 | 1 | $9.1 \%$ |
| Total | 11 | $100 \%$ |
| Mean | 49 inches |  |
| Median | 48 inches |  |
| N=11. |  |  |

More than half (84.2\%) of the participants indicated that the agency responsible for the inspection of the protective seats in Puerto Rico is the "Fire Department" while one in every four (15.8\%) do not know which agency was responsible.

Could you tell me which is the agency where the installation of protective seats for minors in Puerto Rico is inspected or installed?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Fire Department | 421 | $84.2 \%$ |
| PR Police | 32 | $6.4 \%$ |
| Commission for Traffic Safety (CST) | 26 | $5.2 \%$ |
| Puerto Rico Department of Transportation and Public Works | 14 | $2.8 \%$ |
| Asientos protectores 101 | 1 | $0.2 \%$ |
| despues que le da de alta en el hospital | 1 | $0.2 \%$ |
| Puerto Rico Department of Family Affairs | 1 | $0.2 \%$ |
| Department of Public Safety (Manejo de Emergencias) | 1 | $0.2 \%$ |
| None | 1 | $0.2 \%$ |
| Does not know | 49 | $9.8 \%$ |
| Does not say | 2 | $0.4 \%$ |
| Total | 500 | - |

The sum of percentages may be different to $100 \%$ since this is a multiple answer question, therefore and independent count is performed for each of the answers mentioned. $n$ is equal to the number of respondents that indicated remembering any messages related to a campaign encouraging the use of car seat. $n=500$.

During the past 12 months, $0.4 \%$ of the participants received a police officer fine for not using the car seat. All of them received a ticket in a period of 12 months, but none specified the amount of the ticket received.

During the past 12 months, have you been given a ticket for not using the car seat?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Yes | 2 | $0.4 \%$ |
| No | 494 | $98.8 \%$ |
| Does not know | 2 | $0.4 \%$ |
| Does not say | 2 | $0.4 \%$ |
| Total | 500 | $\mathbf{1 0 0 . 0 \%}$ |
| $N=500$. |  |  |

Eight out of ten participants (84.2.\%) indicated that is "very unlikely" that they get a police officer fine for not using the car seat when traveling with a child.

How likely is it that you get a ticket for not using a car seat when traveling with children between the ages of 0 to 8 ?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Very likely | 18 | $3.6 \%$ |
| Likely | 15 | $3.0 \%$ |
| Unlikely | 39 | $7.8 \%$ |
| Very unlikely | 421 | $84.2 \%$ |
| Does not know / Does not say | 7 | $1.4 \%$ |
| Total | 500 | $100.0 \%$ |
| $n=500$ |  |  |

Regarding the awareness of media campaigns to encourage the use of a car seat for children aged cero to eight, $19.4 \%$ of the participants recalled at least one type of message during the last 30 days.

During the past 30 days, do you remember having seen, read or heard any message from a campaign to encourage the use of a car seat for children aged 0 to 8 ?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Yes | 97 | $19.4 \%$ |
| No | 397 | $79.4 \%$ |
| Does not know | 4 | $0.8 \%$ |
| Does not say | 2 | $0.4 \%$ |
| Total | 500 | $100.0 \%$ |
| $\mathrm{~N}=500$. |  |  |

Among the participants who remembered the campaign; "Local TV" (45.4\%), "social networks" (19.6\%) and "radio" (15.5\%) were the main media in which they recalled listening to, reading or watching the campaign.

How did you hear, see, or read the message about the use of car seat?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Local TV | 44 | $45.4 \%$ |
| Social Media | 19 | $19.6 \%$ |
| Radio | 15 | $15.5 \%$ |
| Cable TV y/o Satélite | 6 | $6.2 \%$ |
| Newspaper | 4 | $4.1 \%$ |
| Billboards o afiches en paradas de guagua y otros lugares | 4 | $4.1 \%$ |
| públicos | 4 | $4.1 \%$ |
| Work | 4 | $2.1 \%$ |
| Other webpages | 2 | $2.1 \%$ |
| Minicipality | 2 | $2.1 \%$ |
| School | 2 | 1 |
| Email | 1 | $1.0 \%$ |
| Head Start | 1 | $1.0 \%$ |
| Hospital | 1 | $1.0 \%$ |
| Orientation at a mall | 1 | $1.0 \%$ |
| Orientation in Walgreens | 1 | $1.0 \%$ |
| Pandora | 1 | $1.0 \%$ |
| Plaza del Caribe | 0 | $0.0 \%$ |
| Revistas | 0 | $0.0 \%$ |
| Cine | 1 | $1.0 \%$ |
| Does not know / Does not say | 97 | - |
| Total |  |  |

The sum of percentages may be different to $100 \%$ since this is a multiple answer question, therefore and independent count is performed for each of the answers mentioned. n is equal to the number of respondents that indicated remembering any messages related to a campaign encouraging the use of car seat. $\mathrm{n}=97$.

One out of four participants (25.8\%) that recalled the campaign, remembered slogans or phrases as part of it.

Do you remember any slogan or phrase you saw, heard, or read as part of the campaign about the use of car seat?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Yes | 25 | $25.8 \%$ |
| No | 71 | $73.2 \%$ |
| Boes not know/Does not say | 1 | $1.0 \%$ |
| Total | $\mathbf{9 7}$ | $100.0 \%$ |

$n$ is equal to the number of respondents that indicated remembering any messages related to a campaign encouraging the use of car seat. $n=97$.

The following table summarizes the slogan recall of the participants:
Which slogan, slogans, or phrases do you remember regarding this campaign about the use

| of car seat? |  |  |
| :--- | :---: | :---: |
| Si usas el cinturon salvas la vida | Freq. | $\%$ |
| Algo de la vida | 2 | $8.0 \%$ |
| Amarrate | 1 | $4.0 \%$ |
| Amarrate a la vida | 1 | $4.0 \%$ |
| el asiento salva vidas | 1 | $4.0 \%$ |
| Evitar accidentes | 1 | $4.0 \%$ |
| La importancia de llevar los menores en el asiento para salvarle la vida | 1 | $4.0 \%$ |
|  | 1 | $4.0 \%$ |
| Las noticias de un accidente con un nino | 1 | $4.0 \%$ |
| no guiar borracho | 1 | $4.0 \%$ |
| policia detiene a su propia hija y la detiene por conducir mal | 1 | $4.0 \%$ |
| por la seguridad anuncio de una nena | 1 | $4.0 \%$ |
| Presetan como acomodar el asiento protector y mostraba las | 1 | $4.0 \%$ |
| consecuencias de no usarlo | 1 | $4.0 \%$ |
| Protege a los tuyos, usa el asiento protector | 1 | $4.0 \%$ |
| Protege el menor y el logo del car seat. | 1 | $4.0 \%$ |
| protege tu vida y la de los demas | 1 | $4.0 \%$ |
| protegete tu y protege los tuyos | 1 | $4.0 \%$ |
| seguridad para los ninos asiento protector | 1 | $4.0 \%$ |
| siempre estar amarrado | 1 | $4.0 \%$ |
| Usar el asiento protector .... | 1 | $4.0 \%$ |
| usar el car seat salva vidas | 1 | $4.0 \%$ |
| Utiliza el carseat | 1 | $4.0 \%$ |
| Si los amas protégelo | 3 | $12.0 \%$ |
| Does not say | 25 | - |
| Total |  |  |

The sum of percentages may be different to $100 \%$ since this is a multiple answer question, therefore and independent count is performed for each of the answers mentioned. n is equal to the number of respondents that indicated remembering any slogan or phrase related to a campaign encouraging the use of car seat. $\mathrm{n}=25$.

For six of ten participants (57.7\%) that recalled the campaign, the message was "very effective." Only $2.1 \%$ indicated it was "not effective at all."

On a scale of 1 to 5 , in which 5 means "very effective" and 1 means "not effective at all", how effective do you think is this message you remember seeing, reading,
or hearing about the use of car seat?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| 1 - Not at all effective | 2 | $2.1 \%$ |
| 2 | 2 | $2.1 \%$ |
| 3 | 15 | $15.5 \%$ |
| 4 | 21 | $21.6 \%$ |
| 5 - Very effective | 56 | $57.7 \%$ |
| Does not know / Does not say | 1 | $1.0 \%$ |
| Total | 97 | $100.0 \%$ |

[^0]Half of these participants (44.3\%) that recalled the campaign indicated that the Commission for Traffic Safety (CST) is the agency responsible for the campaign on the use of car seats for children 0 to 8 years of age, while $12.4 \%$ said it was the Puerto Rico Police.

From the following agencies, which one do you think is responsible for the campaign on the car seat for children 0 to 8 years old that you remember having been exposed?

|  | Freq. | $\%$ |
| :--- | :---: | :---: |
| Commission for Traffic Safety (CST) | 43 | $44.3 \%$ |
| Puerto Rico Police | 12 | $12.4 \%$ |
| Puerto Rico Department of Transportation and Public Works | 9 | $9.3 \%$ |
| Fire Department | 6 | $6.2 \%$ |
| Highway Authority | 5 | $5.2 \%$ |
| Asientos protectore 101 | 1 | $1.0 \%$ |
| Department of Family Affairs (Departamento de la Familia) | 1 | $1.0 \%$ |
| Minicipality | 1 | $1.0 \%$ |
| Only remember the colors black and yellow | 1 | $1.0 \%$ |
| All of them are responsible | 1 | $1.0 \%$ |
| Saveral because of irresponsible parents | 1 | $1.0 \%$ |
| Does not know | 16 | $16.5 \%$ |
| Total | 97 | $\mathbf{1 0 0 . 0 \%}$ |

n is equal to the number of respondents that indicated remembering any slogan or phrase related to a campaign encouraging the use of car seat. $n=97$.

Almost one out of ten (8.4\%) of the participants indicated that they remember seeing, reading, or hearing anything about the Puerto Rico police inflicting fines on people traveling with minors without using the car seat.

| During the past 60 days, do you remember seeing, reading <br> or hearing anything about the Puerto Rico police inflicting <br> fines on people traveling with minors without using the car <br> seat? |  |  |
| :--- | :---: | :---: |
|  | Freq. | $\%$ |
| Yes | 42 | $8.4 \%$ |
| No | 451 | $90.2 \%$ |
| Does not know/Does not say | 7 | $1.4 \%$ |
| Total | 500 | $100.0 \%$ |
| $\mathrm{~N}=500$. |  |  |

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[^0]:    $n$ is equal to the number of respondents that indicated remembering any slogan or phrase related to a campaign encouraging the use of car seat. $n=97$.

