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# **CONSUMER PREFERENCES REGARDING VEHICLE-RELATED SAFETY RECALLS**

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CONSUMER PREFERENCES REGARDING VEHICLE-RELATED  
SAFETY RECALLS

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16. Abstract <p>This study explored the factors that influence consumer responses to safety recalls in general and to vehicle-related safety recalls in particular. The data consisted of the responses of 516 adults in the U.S. to an online survey.</p> <p>The examined topics were as follows:</p> <ul style="list-style-type: none"><li>• Awareness of recalls by product category</li><li>• Likelihood of responding to safety recalls by product category</li><li>• Experience with the latest safety recall</li><li>• Preferred method for notification of vehicle-related safety recalls</li><li>• Consequences of not having vehicle-related safety-recall notices addressed for future vehicle registration and resale</li><li>• Options and factors making responding to vehicle-related safety-recall notices more likely</li><li>• Concerns that prevent responding to vehicle-related safety-recall notices</li></ul>					
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## Contents

Introduction.....	1
Method .....	4
Survey instrument.....	4
Respondents .....	4
Results: General.....	7
Awareness of recalls by product category .....	7
Likelihood of responding to safety-recall notices by product category.....	8
Experience with the most recent safety-recall notice .....	9
Results: Vehicle related .....	11
Preferred method for notification of vehicle-related safety recalls .....	11
Consequences of not having vehicle-related safety recalls addressed.....	12
Options that increase the likelihood of responding to vehicle-related safety recalls....	13
Concerns that prevent responding to vehicle-related safety recalls.....	14
Factors that influence the likelihood of responding to vehicle-related safety recalls...	15
Gender and age effects.....	19
Key Findings.....	20
References.....	22
Appendix: Questionnaire .....	23

## Introduction

This survey was designed to examine the reasons for responding or not responding to safety recall notices, with a particular focus on vehicle-related safety recalls. The underlying aim was to better understand what could be done to increase the response rate.

The National Highway Traffic Safety Administration defines motor vehicle safety as *“the performance of a motor vehicle or motor vehicle equipment in a way that protects the public against unreasonable risk of accidents occurring because of the design, construction, or performance of a motor vehicle, and against unreasonable risk of death or injury in an accident, and includes nonoperational safety of a motor vehicle”* (NHTSA, 2011). A defect includes *“any defect in performance, construction, a component, or material of a motor vehicle or motor vehicle equipment. Generally, a safety defect is defined as a problem that exists in a motor vehicle or item of motor vehicle equipment that poses a risk to motor vehicle safety, and may exist in a group of vehicles of the same design or manufacture, or items of equipment of the same type and manufacture”* (NHTSA, 2011).

A recall is necessary *“when a motor vehicle or item of motor vehicle equipment (including tires) does not comply with a Federal Motor Vehicle Safety Standard,”* or *“when there is a safety-related defect in the vehicle or equipment”* (NHTSA, 2011).

An individual recall could involve a single vehicle (Consumerist, 2015) or millions of vehicles (Consumer Reports, 2016). Table 1 and Figure 1 show the number of recalls and the number of affected products from 1995 to 2015.

Table 1  
Safety-related recalls and affected products, 1995-2015 (NHTSA, 2016).

Year	Vehicles		Equipment		Child safety seats		Tires	
	Recalls	Affected	Recalls	Affected	Recalls	Affected	Recalls	Affected
1995	265	18,121,565	75	524,849	5	371,783	3	9,527
1996	304	17,826,392	30	852,747	5	824,823	2	1,242
1997	265	14,712,658	34	388,134	8	1,636,327	5	7,146
1998	365	17,146,878	35	513,239	4	928,406	4	597,159
1999	395	19,376,291	33	33,851,801	5	2,325,907	7	6,459
2000	541	24,636,743	73	1,182,952	6	4,383,295	6	14,412,550
2001	453	13,626,263	56	1,028,192	8	3,933,456	10	3,804,056
2002	434	18,435,673	51	1,104,284	8	5,044,756	13	679,626
2003	527	19,062,913	60	1,373,197	10	2,343,929	3	745
2004	600	30,806,580	78	1,273,691	3	357,475	17	571,290
2005	562	18,962,510	71	1,088,242	4	213,055	8	134,839
2006	490	11,203,534	96	2,133,644	5	129,825	22	589,629
2007	587	14,816,417	108	1,760,379	11	3,664,521	7	374,826
2008	683	10,207,696	66	2,630,738	10	1,296,036	21	8,065,975
2009	491	16,125,894	64	750,794	8	530,355	7	169,777
2010	647	19,691,419	55	2,843,584	4	54,774	16	55,477
2011	598	13,807,119	54	625,545	2	883,774	3	446,551
2012	582	16,486,229	55	575,584	4	71,563	18	1,136,314
2013	629	20,252,849	69	4,526,541	3	75,282	11	1,429,404
2014	779	50,989,948	79	2,121,305	6	7,847,416	13	368,720
2015	868	51,259,648	92	35,735,699	1	213,753	12	387,164

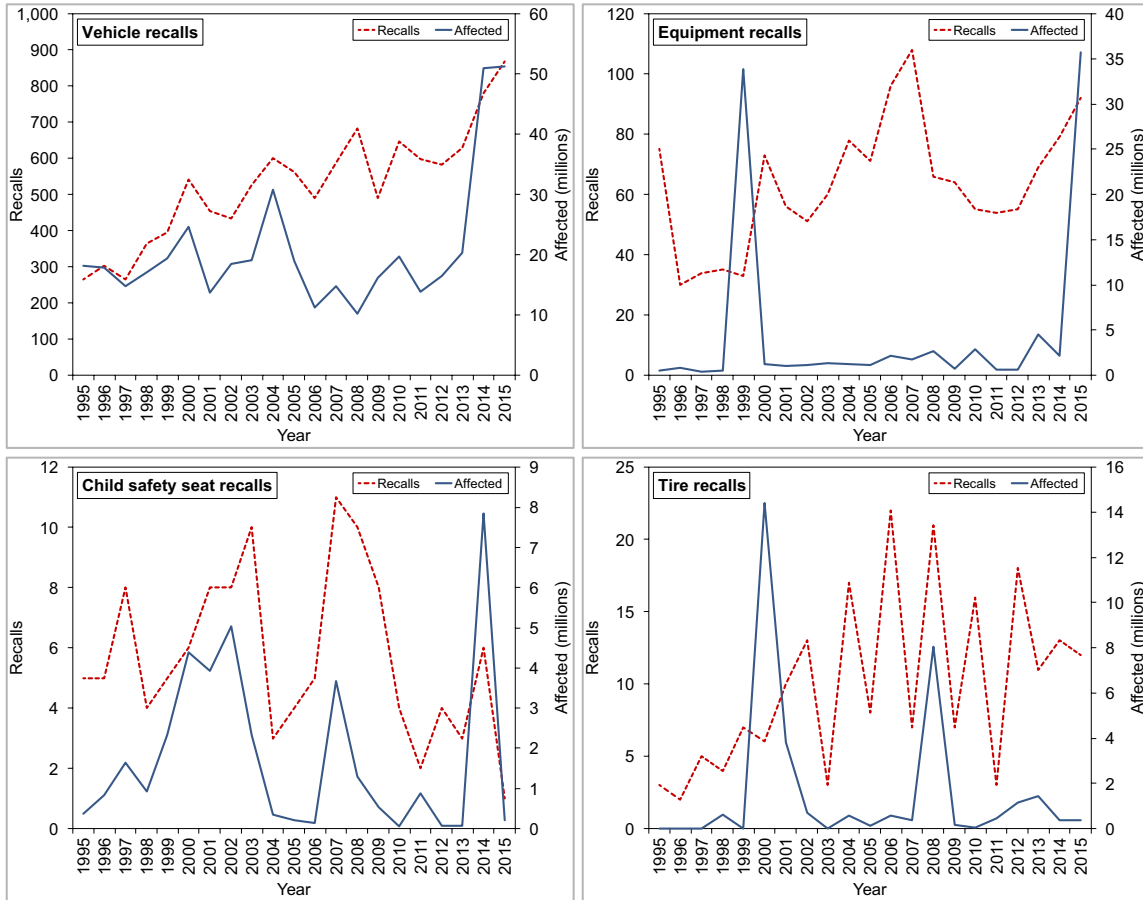


Figure 1. Safety-related recalls and affected products, 1995-2015 (NHTSA, 2016).

Compounding the problem of the large number of vehicle-related recalls is the relatively low response rate to recall notices. According to NHTSA, about 20% of vehicles that are recalled go unrepaired (NHTSA, 2014b).

There is general recognition of the problem with low response rates (e.g., NHTSA, 2015), and efforts are being made to improve these rates (e.g., a new mandatory mailing label; NHTSA, 2014a). However, additional information about the current views of consumers concerning vehicle-related safety recalls would be valuable to the efforts to increase the response rates. Therefore, this study was designed to obtain information about what American consumers think regarding the following issues related to vehicle-safety recalls: (1) awareness of recalls, (2) likelihood of responding to recall notices, (3) experience with their most recent notice, (4) preferred method for recall notification, (5) consequences of not having recalls addressed, (6) options and factors that increase the likelihood of responding to recalls, and (7) concerns that prevent responding to recalls.

## **Method**

### **Survey instrument**

An online survey was conducted using SurveyMonkey ([www.surveymonkey.com](http://www.surveymonkey.com)). A questionnaire was developed to examine several topics related to consumer preferences regarding safety recalls, with the primary interest being vehicle-related safety recalls. The text of the questionnaire is included in the appendix. The survey was performed in March 2017.

### **Respondents**

SurveyMonkey's Audience tool was used to recruit respondents 18 years and older from SurveyMonkey's respondent database in the United States. Fully completed surveys were received for 516 respondents. The margin of error at the 95% confidence level for the overall results is +/- 4.3%. Demographic breakdowns for the respondents are presented in Table 2. The age and gender breakdowns are similar to the latest U.S. Census demographics for age and gender. Figure 2 shows each U.S. Census region and the corresponding states.



Table 2  
Demographic breakdowns for the 516 respondents.

Demographic aspect		Percent
Gender	Female	52.2
	Male	47.8
Age group	18 to 29	21.9
	30 to 44	26.0
	45 to 59	27.0
	60 or older	25.1
Income	\$0 to \$24,999	15.5
	\$25,000 to \$49,999	21.0
	\$50,000 to \$74,999	14.4
	\$75,000 to \$99,999	13.0
	\$100,000 to \$124,999	9.1
	\$125,000 to \$149,999	5.0
	\$150,000 to \$174,999	1.9
	\$175,000 to \$199,999	2.1
	\$200,000 or more	3.9
	Prefer not to answer	14.0
U.S. region	New England	5.7
	Middle Atlantic	12.7
	East North Central	17.2
	West North Central	7.5
	South Atlantic	16.8
	East South Central	5.2
	West South Central	9.5
	Mountain	6.9
	Pacific	18.4



Figure 2. U.S. Census regions.

## Results: General

### Awareness of recalls by product category

Table 3 presents the percentages of respondents who were aware of a recall concerning a product that they own or use, by product category. The products are listed in the order of awareness. Respondents were most aware of recalls related to vehicles (67.6%), followed by food (38.8%), and household electronics (12.2%). About a fifth of respondents (19.8%) were not aware of any recalls.

Table 3  
Percentages of respondents who were aware of a recall of a product that they actually own or use, by product category. (The percentages add up to more than 100%, because some respondents were aware of recall notices in more than one product category.)

Product category	Percent
Vehicles	67.6
Food	38.8
Household electronics	12.2
Child-safety seats	12.0
Major household appliances	11.4
Children's furniture	8.7
Vehicle tires	8.7
Other children's products	8.3
Prescription or over-the-counter drugs	7.2
Outdoor work equipment	5.4
Power tools	4.8
Other products	1.7
None of the above	19.8

**Likelihood of responding to safety-recall notices by product category**

Table 4 presents the percentages of respondents who indicated that they would respond to a safety-recall notice and have the product repaired or replaced, by product category. The entries are in decreasing order of the *definitely would* responses. The products that respondents would most frequently *definitely have repaired or replaced* were vehicle tires (80.2%), followed closely by vehicles (79.8%), prescription drugs (74.4%), food (56.4%), and major household appliances (56.2%).

Table 4  
Percentages of respondents who indicated different levels of likelihood of responding to a recall, by product category.

Value	Description	Vehicle tires	Vehicles	Prescription or over-the-counter drugs	Food	Major household appliances	Power tools	Household electronics	Outdoor work equipment
0	Definitely would not respond	1.7	2.1	4.7	4.5	2.1	4.3	1.9	4.3
1		1.0	1.2	2.7	4.1	1.4	1.9	0.8	1.6
2		0.8	0.4	0.8	2.9	1.0	1.4	0.6	1.0
3		0.2	0.6	0.4	3.1	0.4	1.0	1.0	0.8
4		0.6	0.4	0.8	2.1	1.4	1.9	2.5	1.2
5	Unsure	1.7	3.5	4.3	10.9	5.0	10.3	8.9	12.4
6		0.8	0.6	1.0	2.1	3.7	4.3	5.0	3.7
7		1.2	1.6	2.1	3.7	4.7	7.9	8.3	8.3
8		4.8	3.5	3.5	5.2	13.6	11.2	16.5	14.7
9		7.0	6.4	5.4	5.0	10.7	10.5	11.6	10.5
10	Definitely would respond	80.2	79.8	74.4	56.4	56.2	45.3	42.8	41.7

## Experience with the most recent safety-recall notice

### *Speed of responding*

Table 5 lists the percentages of respondents indicating how quickly they contacted manufacturer to have the product repaired or replaced the last time they received a safety-recall notice. Almost half of all respondents (48.4%) did so within a few days of receiving the notice, while 12.7% never did.

Table 5  
Percentages of respondents indicating how quickly they contacted the manufacturer to have the product repaired or replaced the last time they received a safety-recall notice.

Response	Percent
Within a few days of receiving the notice	48.4
Within a few weeks of receiving a notice	27.1
Within a few months of receiving the notice	7.8
More than a few months after receiving the notice	3.9
Never	12.7

### *Reason for not responding to the notice*

Table 6 lists the percentages of reasons for not responding to the most recent safety-recall notice. The most frequent reason given was not being concerned about the problem (23.1%), followed by the product being already discarded/disposed of (17.3%).

Table 6  
Percentages of reasons given for not responding to the latest safety-recall notice.

Response	Percent
Not concerned about the recall/problem	23.1
Discarded/disposed of the product	17.3
No longer own the product	9.6
Fixed/repaired it myself	5.8
Not enough time or too busy	5.8
Too far away	5.8
Other reason	32.7

*Speed of getting the product repaired or replaced*

Table 7 lists the percentages of respondents indicating how quickly they had the product repaired or replaced for those who contacted the manufacturer. The most frequent response category was within a few weeks of contact (46.5%).

Table 7  
Percentages of respondents indicating how quickly they had the product repaired or replaced the last time they received a safety-recall notice for those who contacted the manufacturer.

Response	Percent
Same day or within a few days of contact	25.5
Within a few weeks of contact	46.5
Within a few months of contact	16.0
More than a few months after contact	7.3
Never	4.8

*Reason for the delay in getting the product repaired or replaced*

As indicated in Table 8, a manufacturer's decision was the reason for 55.0% of the delays in getting the product repaired or replaced.

Table 8  
Percentages of respondents indicating the reason for the delay in getting the product repaired or replaced.

Response	Percent
Manufacturer's schedule or decision	55.0
My schedule or decision	45.0

*Reasons for not getting the product repaired or replaced after contacting manufacturer*

There were only 17 cases when a respondent contacted the manufacturer but the product was never repaired or replaced. The reasons given were waiting for parts or appointment (6), repair not required (3), asked to pay for repair (2), and other reasons (6).

## Results: Vehicle Related

### Preferred method for notification of vehicle-related safety recalls

Table 9 lists various methods of notification of vehicle-related safety-recall notices in decreasing order of preference. The top five methods were mail (73.8%), email (64.3%), text message (33.1%), at dealerships when service is performed (32.4%), and by phone (32.2%).

Table 9  
Preferred methods of notification of vehicle-related safety-recall notices.  
(The percentages add up to more than 100%, because some respondents listed more than one method.)

Method	Percent
Mail	73.8
Email	64.3
Text message	33.1
At dealerships when service is performed	32.4
Phone	32.2
Advertising campaigns or public-service announcements	28.5
During annual vehicle registration or inspection	25.8
At repair shops (other than dealerships)	19.8
At oil-change shops	18.6
At tire service centers	15.1
On manufacturer's website	17.8
In-vehicle infotainment screens	17.4
Posters at dealerships and repair shops	14.0
On manufacturer's social media pages	13.2
Other notification	0.4
None of the above	2.1

## Consequences of not having vehicle-related safety recalls addressed

### *Vehicle registration*

Table 10 indicates that 59.7% of respondents thought that the repair or replacement related to safety-recall notices should be required before the vehicle registration can be renewed every year, while 40.3% did not.

Table 10  
Percentage of respondents who thought that the repair or replacement related to safety-recall notices should be required before the vehicle registration can be renewed every year.

Response	Percent
Required before vehicle registration can be renewed	59.7
Optional	40.3

### *Reselling vehicle*

Table 11 indicates that 60.7% of respondents thought that used vehicles should be required to have all existing recalls corrected before they can be resold, while 33.1% thought that the repairs should be optional, but the seller should be required to notify the new owner about all existing recalls.

Table 11  
Percentage of respondents who thought that used vehicles should be required to have all existing recalls corrected before they can be resold, and of those who thought that this should be optional (with or without notifying the new owner).

Response	Percent
Required before vehicle can be resold	60.7
Optional, but required to notify the new owner of all existing recalls	33.1
Optional, no requirement to correct existing recalls or notify the new owner	6.2



### Options that increase the likelihood of responding to vehicle-related safety recalls

Table 12 lists the options making responding to vehicle-related safety-recall notices more likely. The most frequently mentioned option was ability to go to any of the manufacturer's dealerships (which is already allowed; 58.9%), ability to bundle the recall repair with regularly scheduled service or maintenance (52.1%), some type of incentive (50.6%), and ability to use own mechanic or repair shop (42.1%).

Table 12  
Options making responding more likely. (The percentages add up to more than 100%, because some respondents listed more than one option.)

Option	Percent
Ability to go to any of the manufacturer's dealerships	58.9
Ability to bundle the recall repair with regularly scheduled service or maintenance	52.1
Some type of incentive (free oil change, free gas fill up, etc.)	50.6
Ability to use own mechanic or repair shop instead of dealership	42.1
Having a free loaner vehicle to use during repair	1.4
Other option	1.4
None of the above	6.0

### Concerns that prevent responding to vehicle-related safety recalls

Table 13 lists the concerns that prevent individuals from responding to vehicle-related safety-recall notices. The most frequently mentioned concerns were that they will try to sell additional repairs during the visit (38.4%), not having access to their vehicle while getting it repaired (37.2%), having to wait too long to get it repaired (35.9%), and being unsure how important it is to actually get the repair (30.0%).

Table 13  
Concerns that prevent responding to vehicle-related safety-recall notices. (The percentages add up to more than 100%, because some respondents listed more than one concern.)

Concern	Percent
They will try to sell me additional repairs during the visit	38.4
Not having access to my vehicle while getting it repaired	37.2
Having to wait too long to get it repaired	35.9
Unsure how important it is to actually get the repair	30.0
Not knowing when (or how soon) I need to get the repair	26.4
Unsure if the recall applies to my specific vehicle	26.2
Not knowing what to do or who to contact after receiving the notice	25.8
Unsure if recall repairs are optional or required	22.5
Not having experienced the problem described in the recall	19.4
Other concern	0.8
None of the above	19.6

**Factors that influence the likelihood of responding to vehicle-related safety recalls**

*Vehicle age*

As indicated in Table 14, respondents were more likely to get the defect corrected for relatively new vehicles than for relatively old vehicles (82.8% and 50.4%, respectively, indicated that they definitely would get the defect corrected). Furthermore, respondents were less likely to be unsure about their action for relatively new vehicles than for relatively old vehicles (1.7% vs. 12.4%).

Table 14  
Influence of vehicle age on the likelihood of responding to vehicle-related safety-recall notices. (The entries are percentages.)

Value	Description	Relatively new vehicles	Relatively old vehicles
0	Definitely would not get the defect corrected	0.8	1.6
1		0.8	1.0
2		0.8	0.8
3		0.4	2.1
4		0.0	2.9
5	Unsure	1.7	12.4
6		0.2	4.1
7		2.3	8.7
8		4.3	10.3
9		6.0	5.8
10	Definitely would get the defect corrected	82.8	50.4

*Safety-risk level*

As indicated in Table 15, as the safety-risk level decreased, respondents were less likely to get the defect corrected. The percentages of respondents who would definitely get the defect corrected were 88.2% for high risk, 44.4% for moderate risk, and 28.7% for low risk. Furthermore, as the risk level decreased, the percentage of those who were unsure about their action increased (1.2%, 7.4%, and 22.7%, respectively).

Table 15  
Influence of safety-risk level on the likelihood of responding to vehicle-related safety-recall notices. (The entries are percentages.)

Value	Description	High risk	Moderate risk	Low risk
0	Definitely would not get the defect corrected	1.2	1.4	2.7
1		0.6	0.6	2.1
2		0.0	0.6	4.7
3		0.8	0.8	7.0
4		0.2	1.2	4.3
5	Unsure	1.2	7.4	22.7
6		0.6	5.4	8.1
7		0.8	10.5	6.6
8		2.5	17.2	8.5
9		4.1	10.7	4.7
10	Definitely would get the defect corrected	88.2	44.4	28.7

*Distance to the nearest repair facility*

As indicated in Table 16, as the distance (in terms of time) to the nearest repair facility increased, respondents were less likely to get the defect corrected. The percentages of respondents who definitely would get the defect corrected were 80.6% for a distance of less than 15 minutes, 63.6% for 15 to 30 minutes, and 44.8% for more than 30 minutes. Furthermore, as the distance increased, the percentages of those who were unsure about their action increased (3.7%, 5.2%, and 12.4%, respectively).

Table 16  
Effect of distance to the nearest repair facility on the likelihood of responding to vehicle-related safety-recall notices. (The entries are percentages.)

Value	Description	Less than 15 minutes	15 to 30 minutes	More than 30 minutes
0	Definitely would not get the defect corrected	1.4	1.2	1.9
1		0.6	0.4	2.1
2		0.2	0.4	1.2
3		0.6	0.6	2.5
4		0.6	1.0	2.7
5	Unsure	3.7	5.2	12.4
6		0.6	2.3	5.8
7		1.6	6.8	7.6
8		4.1	11.0	10.9
9		6.2	7.6	8.1
10	Definitely would get the defect corrected	80.6	63.6	44.8

*Wait time*

As indicated in Table 17, as the wait time increased before a repair could actually be completed, respondents were less likely to get the defect corrected. The percentages of respondents who would definitely get the defect corrected were 74.0% for a wait time of 1 week or less, 48.8% for between 1 week and 1 month, 31.4% for between 1 month and 6 months, and 27.1% for longer than 6 months. Furthermore, as the wait time increased, the percentages of those who were unsure about their action increased (4.1%, 9.1%, 16.7%, and 18.6%, respectively).

Table 17

Influence of wait time before repair can actually be completed on the likelihood of responding to vehicle-related safety-recall notices. (The entries are percentages.)

Value	Description	1 week or less	Between 1 week and 1 month	Between 1 month and 6 months	Longer than 6 months
0	Definitely would not get the defect corrected	1.9	2.3	4.3	9.1
1		1.0	1.0	2.5	8.3
2		0.4	0.4	3.9	8.5
3		0.2	1.6	3.9	5.2
4		0.4	1.6	6.6	5.6
5	Unsure	4.1	9.1	16.7	18.6
6		1.4	5.8	7.8	4.3
7		2.7	7.0	7.9	4.5
8		7.9	12.4	10.3	4.1
9		6.0	10.1	4.8	4.7
10	Definitely would get the defect corrected	74.0	48.8	31.4	27.1

## **Gender and Age Effects**

This section highlights selected important gender and age effects.

### *Gender effects*

Male respondents were more aware of recalls for all product categories than were females, except for children's furniture, other children's products, and food.

Female respondents were more likely than male respondents to indicate that they definitely would respond to recalls related to vehicles, vehicle tires, major household appliances, and prescription drugs. However, that was not the case for household electronics, outdoor work equipment, power tools, and food.

### *Age effects*

The oldest respondents (60+) were generally less aware of recalls than were younger respondents, but the situation was reversed for vehicles. However, they were the most likely age group to indicate that they definitely would respond to recalls concerning products in all examined categories.

Respondents in the oldest three age groups (30+) listed mail more often than email as a preferred method of being notified of vehicle-related safety recalls, but the order of preference was reversed for the respondents in the youngest age group (18-29).

Some type of incentive (e.g., free oil change) would be more important for the youngest two age groups (18-44) in making them more likely to respond to vehicle-related safety-recall notices than would be the case for the oldest two age groups (45+).

Respondents in the youngest age group (18-29) tended to be more likely to mention the concerns in Table 13 as preventing them from responding to vehicle-related safety-recall notices than older respondents.

## **Key Findings**

### **Awareness of recalls *for all products***

- Respondents were most aware of recalls related to vehicles. About two-thirds were aware of such recalls.

### **Likelihood of responding to safety-recall notices *for all products***

- Respondents were most likely to respond to vehicle-tire recalls (about four-fifths).

### **Experience with the latest safety-recall notice *for all products***

- About half of respondents contacted manufacturers within a few days of receiving the notice.
- The main reason given for not responding to the latest recall (listed by about a quarter of respondents) was not being concerned about the problem.
- About three-quarters of respondents indicated that the defect was addressed within a few weeks of the initial contact.
- Manufacturer's schedule/decision and respondent's schedule/decision were about equally responsible for any delays in addressing the problem.

### **Preferred method for notification of *vehicle-related* safety recalls**

- Two methods dominated respondents' preference for notification of vehicle-related safety-recalls: mail (about three quarters of respondents), and email (about two thirds). (However, for respondents in the youngest age group [18-29] the order of these two methods was reversed.)

### **Consequences of not having *vehicle-related* safety-recall notices addressed**

- About three-fifths of respondents thought that vehicle-related safety recalls should be addressed before the vehicle registration can be renewed every year.
- About three-fifths of respondents thought that vehicle-related safety recalls should be addressed before the vehicle can be resold.



### **Options that increase the likelihood of responding to *vehicle-related* safety recalls**

- About half of respondents thought that their likelihood of responding to recall notices would be increased if they were able to bundle recall repairs with regularly scheduled service. Similarly, about half of respondents thought that receiving some type of incentive (e.g., free oil change) would have the same effect.

### **Concerns that prevent responding to *vehicle-related* safety-recall notices**

- About one-third of respondents were concerned that they would be subject to efforts in the repair facility to have them buy additional repairs during the visit.

### **Factors that influence the likelihood of responding to *vehicle-related* safety recalls**

- Respondents were 3.1 times more likely to get the defect corrected for high-risk recalls than for low-risk recalls.
- Respondents were 2.7 times more likely to get the defect corrected if wait time before repair was 1 week or less compared to a wait longer than 6 months.
- Respondents were 1.8 times more likely to get the defect corrected if the distance to the nearest repair facility was less than 15 minutes compared to a distance more than 30 minutes.
- Respondents were 1.6 times more likely to get the defect corrected for relatively new vehicles than for relatively old vehicle.

## References

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# Appendix: Questionnaire

## Product-safety recalls

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### INTRODUCTION

We are conducting a survey regarding notification of product-safety recalls.

We are interested in the types of products for which you might have received a safety-recall notice, and the reasons that you might or might not respond to a recall notice.

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### Q1

Please rank your overall likelihood of responding to a safety-recall notice and having the product repaired or replaced for free by the manufacturer for the following product types.

*Please rate your likelihood of responding to the recall using the following 0-10 scale:*

0 = Definitely **would not** get it repaired or replaced

1

2

3

4

5 = Unsure

6

7

8

9

10 = Definitely **would** get it repaired or replaced

Vehicles:

Vehicle tires:

Major household appliances:

Household electronics:

Outdoor work equipment:

Power tools:

Food:

Prescription drugs:


*[the order of all options above was randomized]*

---

## Q2

Have you ever been made aware that there was a recall, or received a recall notice, for any of the following products **that you actually own or use?**

*Please select all that apply: [the order of options in the box was randomized]*

- |   |
|---|
| <ul style="list-style-type: none"><li><input type="checkbox"/> Vehicles</li><li><input type="checkbox"/> Vehicle tires</li><li><input type="checkbox"/> Child-safety seats</li><li><input type="checkbox"/> Children's furniture (crib, dresser, etc.)</li><li><input type="checkbox"/> Other children's, infant, or baby products</li><li><input type="checkbox"/> Major household appliances (oven, refrigerator, dryer, washer, etc.)</li><li><input type="checkbox"/> Household electronics (stereo, blender, iron, TV, etc.)</li><li><input type="checkbox"/> Outdoor work equipment (lawn mower, chainsaw, leaf blower, etc.)</li><li><input type="checkbox"/> Power tools (saw, drill, sander, etc.)</li><li><input type="checkbox"/> Food</li><li><input type="checkbox"/> Prescription drugs</li></ul> |
|---|
- None of the above → *SKIP TO Q6*
  - Other product (please describe): \_\_\_\_\_

---

## Q3

Thinking about the last time you received a safety-recall notice, how quickly did you **contact** the manufacturer to have the product repaired or replaced?

- Within a few days of receiving the notice
- Within a few weeks of receiving the notice
- Within a few months of receiving the notice
- More than a few months after receiving the notice
- Never – I did not contact the manufacturer  
Please tell us why you did not contact the manufacturer: \_\_\_\_\_ → *SKIP TO Q6*

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#### Q4

Thinking about the last time you received a safety-recall notice, how long did it take to **actually** have the product repaired or replaced by the manufacturer after you contacted them?

- Same day or within a few days of contact → *SKIP TO Q6*
- Within a few weeks of contact
- Within a few months of contact
- More than a few months after contact
- Never – the product was not repaired or replaced  
Please tell us why the product was not repaired or replaced: \_\_\_\_\_ → *SKIP TO Q6*

---

#### Q5

Was the delay in getting the product repaired or replaced due to your schedule or decision, or due to the manufacturer's schedule or decision?

- My schedule or decision
- Manufacturer's schedule or decision

---

**Q6**

How would you prefer to be notified of a **vehicle-related safety recall**? This includes products such as your vehicle, its tires, and child-safety seats.

*Please select all that apply: [the order of options in the box was randomized]*

- |  |
|--|
| <ul style="list-style-type: none"><li><input type="checkbox"/> Mail</li><li><input type="checkbox"/> Phone</li><li><input type="checkbox"/> Email</li><li><input type="checkbox"/> Text message</li><li><input type="checkbox"/> On manufacturer's website</li><li><input type="checkbox"/> On manufacturer's social media pages</li><li><input type="checkbox"/> In-vehicle infotainment screen</li><li><input type="checkbox"/> Advertising campaign or public service announcements</li><li><input type="checkbox"/> Posters displayed at dealerships and repair shops</li><li><input type="checkbox"/> At dealership when service is performed</li><li><input type="checkbox"/> At repair shop (other than the dealership) when service is performed</li><li><input type="checkbox"/> At oil change shops</li><li><input type="checkbox"/> At tire service centers</li><li><input type="checkbox"/> During annual vehicle registration or inspection</li></ul> |
|--|
- None of the above
  - Other notification (please describe): \_\_\_\_\_

---

**Q7**

For vehicle-related safety recalls, do you feel that responding to the recall notice and having the repair or replacement performed (free of charge) should be **required** before the vehicle registration can be renewed each year, or should correcting the defect be **optional**?

- Required – renewal of vehicle registration should not be permitted until corrected
- Optional – the owner should decide if they want to correct the defect

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**Q8**

For vehicle-related safety recalls, do you feel that **used vehicles** should be required to have all existing recalls corrected before they can be resold?

- Required
- Optional – but **required** to notify the new owner of all existing recalls
- Optional – no requirement to correct existing recalls or notify the new owner

---

**Q9**

Which of the following options would make you **MORE** likely to respond to a vehicle-related safety-recall notice and have the defect corrected (repaired or replaced) free of charge?

*Please select all that apply: [the order of options in the box was randomized]*

- |  |
|--|
| <input type="checkbox"/> Ability to use own mechanic or repair shop instead of dealerships                   |
| <input type="checkbox"/> Ability to go to any of the manufacturer's dealerships that you choose              |
| <input type="checkbox"/> Some type of incentive (free oil change, free gas fill up, etc.)                    |
| <input type="checkbox"/> Ability to bundle the recall repair with regularly scheduled service or maintenance |
| <input type="checkbox"/> None of the above   |
| <input type="checkbox"/> Other option (please describe): _____   |

---

**Q10**

Would any of the following concerns **prevent** you from responding to a vehicle-related safety-recall notice?

*Please select all that apply: [the order of options in the box was randomized]*

- |  |
|--|
| <input type="checkbox"/> Having to wait for too long to get it repaired                      |
| <input type="checkbox"/> Not having access to my vehicle while getting it repaired           |
| <input type="checkbox"/> They will try to sell me additional repairs during the visit        |
| <input type="checkbox"/> Not knowing what to do or who to contact after receiving the notice |
| <input type="checkbox"/> Not knowing when (or how soon) I need to get the repair             |
| <input type="checkbox"/> Unsure how important it is to actually get the repair               |
| <input type="checkbox"/> Unsure if recall repairs are optional or required                   |
| <input type="checkbox"/> I have not experienced the problem described in the recall          |
| <input type="checkbox"/> Unsure if the recall applies to my specific vehicle                 |
| <input type="checkbox"/> None of the above   |
| <input type="checkbox"/> Other concern (please describe): _____                              |

---

**Q11**

If you received a vehicle-related safety-recall notice, how likely would you be to respond to the notice and have the defect corrected if the age of your vehicle was either relatively **NEW** or relatively **OLD**?

*Please rate your likelihood of responding to the recall using the following 0-10 scale:*

0 = Definitely **would not** get the defect corrected

1

2

3

4

5 = Unsure

6

7

8

9

10 = Definitely **would** get the defect corrected

NEWER vehicle:

OLDER vehicle:



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**Q12**

If you received a vehicle-related safety-recall notice, how likely would you be to respond to the notice and have the defect corrected if the safety risk was identified as **LOW**, **MODERATE**, or **HIGH**?

*Please rate your likelihood of responding to the recall using the following 0-10 scale:*

0 = Definitely **would not** get the defect corrected

1

2

3

4

5 = Unsure

6

7

8

9

10 = Definitely **would** get the defect corrected

LOW risk:

MODERATE risk:

HIGH risk:

---

**Q13**

If you received a vehicle-related safety-recall notice, how likely would you be to respond to the notice and have the defect corrected based on the *distance or convenience to the closest repair facility*?

*Please rate your likelihood of responding to the recall using the following 0-10 scale:*

0 = Definitely **would not** get the defect corrected

1

2

3

4

5 = Unsure

6

7

8

9

10 = Definitely **would** get the defect corrected

Less than 15 minutes to repair facility:

15 to 30 minutes to repair facility:

More than 30 minutes to repair facility:

---

**Q14**

If you received a vehicle-related safety-recall notice, how likely would you be to respond to the notice and have the defect corrected based on the *wait time before the repair can actually be completed*?

*Please rate your likelihood of responding to the recall using the following 0-10 scale:*

0 = Definitely **would not** get the defect corrected

1

2

3

4

5 = Unsure

6

7

8

9

10 = Definitely **would** get the defect corrected

Wait time of 1 week or less:

Wait time between 1 week and 1 month:

Wait time between 1 month and 6 months:

Wait time longer than 6 months:

---

**END**

Thank you for participating in this survey!