Online Appendix: Not for Publication

Are Consumers Poorly Informed about Fuel Economy? Evidence from Two Experiments

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A Data Appendix

A.A Dealership and Online Survey Data

Basic data cleaning steps for dealership data included the following:

- Some survey observations were test cases. We removed these from the tablet app data by inspecting comments by RAs or respondent names for words such as "test" or "fake."
- The follow-up phone survey was delivered twice to some households. In these cases, we kept the more complete observation, or if both were equally complete, one of the repeated observations was randomly chosen.
- Some people provided a range of numbers for expected fuel costs on the follow-up phone survey. In these cases, we used the midpoint of the range.

In the follow-up surveys for both experiments, some people reported a new vehicle purchased that had the same make, model, and model year as their current vehicle in the baseline survey; these cases were coded as not having purchased new cars.

There are a limited number of apparently careless survey responses, in particular for the stated preference results for the online survey the fuel cost belief data from both surveys. We cleaned these in the following ways:

- We dropped all gasoline price expectations of less than \$1 or greater than or equal to \$10 per gallon.
- We dropped all expected annual miles driven less than 1,000 or greater than 75,000.
- We dropped all expected vehicle annual fuel costs less than \$100 if the respondent reported expecting to drive 2,000 or more miles per year.
- We dropped several common patterns of careless responses, for example writing that annual maintenance, insurance, and fuel costs would all equal \$X per year, with \$X \leq 10.

A.B Fuel Economy, Census, and National Household Travel Survey Data

We use the official EPA vehicle-level fuel economy data available from www.fueleconomy.gov/feg/download.shtml. Vehicles reported in the survey were matched to vehicles in the EPA data based on manufacturer, year, and model name as well as secondary characteristics such as fuel type, transmission, engine size and number of cylinders. If one or more of the secondary characteristics were missing, creating possible matches to more than one vehicle in the EPA data, we used the average fuel economy rating of all such possible matches. At baseline, individuals report miles they expect to drive and the proportion of city vs. highway driving. Combining these self-reported city/highway proportions with fuel economy numbers from the EPA data, we computed average fuel economy and fuel intensity (defined as inverse of fuel economy) for each person-car combination in the data.

We gathered median income and median education for each respondent's zip code from the 2014 American Community Survey (ACS) 5-year estimates. Mean imputation was used to impute missing values of these and other covariates used in the regressions.

National average covariates in Table 1 were estimated from the 2009 National Household Transportation Survey (NHTS). We define a new car buyer as a household having bought a vehicle with model year 2008 or 2009. Individuals less than 22 years old were dropped while calculating the average household age for it to be closer to that of the household head's. Annual miles driven are from the BESTMILE variable. The NHTS reports "unadjusted" combined fuel economy, which we adjusted using the scaling factors in Table 10.1 of EPA (2016).

B Treatment Effects on Beliefs, and Beliefs as a Moderator

Does the information treatment make consumers' fuel cost beliefs more accurate? And do baseline beliefs moderate the effects of information on purchased vehicle fuel economy? This appendix explores these questions using the online experiment data. We cannot do parallel analyses for the dealership experiment because we did not elicit control group baseline beliefs.²⁰

We consider two classes of belief errors: systematic bias (i.e. the extent to which the same person tends to have relatively high or relatively low valuation ratios ϕ_i across multiple surveys), and belief noise (i.e. the magnitude of $|\phi_i - 1|$). As discussed in Section III.B, the survey reports (and thus the valuation ratios we construct) are likely a combination of consumers' actual beliefs plus some survey measurement error. Appendix Table A6, Panel (b), separates the former from the latter by demonstrating the correlation in these two types of belief errors across the baseline and endline surveys. Column 2 of that table quantifies systematic bias that persists across surveys: people with ϕ_{12} one unit higher (lower) at baseline have ϕ_{12} an average of 0.145 units higher (lower) at follow-up. Column 4 of that table quantifies the persistence of noisy beliefs: people with $|\phi_i - 1|$ one unit higher (lower) at baseline have $|\phi_i - 1|$ an average of 0.093 units higher (lower) at follow-up. If the treatment information makes beliefs more accurate, it will reduce these correlations between baseline and follow-up belief errors.

Appendix Table A1 tests the extent to which the treatment reduces these correlations. Column

²⁰We did not want to meaningfully draw attention to fuel costs in the control group. Because the online survey could involve more questions, we asked the above question to both treatment and control, but obscured the importance of fuel costs by also asking parallel questions about insurance and maintenance. Because customers were more hurried in the dealerships, such additional questions were not practical, so we elicited fuel cost beliefs from the treatment group only, at the beginning of the treatment intervention.

1 repeats the estimate from column 2 of Appendix Table A6, Panel (b), except adding the treatment indicator and its interaction with the baseline valuation ratio. The estimates are imprecise: we cannot reject that the treatment more than doubles, or fully reverses, the 0.145 coefficient relating baseline and follow-up beliefs.

Column 2 tests whether the treatment reduces belief noise $|\phi_i - 1|$, repeating the estimate from column 4 of Appendix Table A6, Panel (b), except again adding the treatment indicator and its interaction with baseline belief noise. In this column, we again cannot reject that the treatment more than doubles, or fully reverses, the 0.093 coefficient relating baseline and follow-up beliefs.

Columns 3 and 4 present comparable regressions, except with purchased vehicle fuel intensity as the dependent variable. Here again, we have imprecise zeros, where we cannot reject that the treatment fully eliminates the extent to which baseline belief errors predict purchases.

In summary, it is not possible to infer whether the treatment makes fuel cost beliefs meaningfully more precise, or whether baseline beliefs meaningfully moderate the treatment effect.

	(1)	(2)	(3)	(4)
	Valuation ratio:	Abs. belief	Purchased	Purchased
	purchased -	error: purchased -	vehicle fuel	vehicle fuel
	2nd choice	2nd choice	intensity	intensity
Treatment \times valuation				
ratio: 1st - 2nd choice	0.09		0.00	
	(0.09)		(0.05)	
Treatment \times abs. belief	(
error: 1st - 2nd choice		0.01		0.00
		(0.09)		(0.04)
Treatment	0.04	-0.03	0.02	0.03
	(0.09)	(0.13)	(0.05)	(0.07)
Valuation ratio:	(0.00)	(0.10)	(0.00)	(0.01)
1st - 2nd choice	0.08		-0.04	
	(0.07)		(0.04)	
Abs. belief error:	(0.01)		(010-)	
1st - 2nd choice		0.08		-0.02
		(0.07)		(0.03)
N	1,035	1,127	1,230	1,343
R^2	0.04	0.04	0.40	0.40
Dependent variable mean	0.69	1.33	4.08	4.08

Table A1: Effects on Beliefs, and Beliefs as a Moderator

Notes: Columns 1 and 3 exclude observations with negative valuation ratios at baseline or endline. The dependent variable in columns 3 and 4 is purchased vehicle fuel intensity (in gallons per 100 miles). Valuation ratios are winsorized to the range $-1 \le \phi \le 4$. All columns control for gender, age, race, natural log of income, miles driven per year, an indicator for whether the current vehicle is a Ford, current vehicle fuel intensity, consideration set average fuel intensity, and treatment group closure time indicators. Robust standard errors are in parentheses.

C Proof of Proposition 1

We first derive the socially optimal price of fuel economy credits. A necessary condition for the socially optimal credit price t^* is that $\frac{dW(t)}{dt} = 0$. Taking this first-order condition, we have

$$\frac{dW(t)}{dt} = \underbrace{\sum_{l} \sum_{j} \left[\frac{dP_{lj}(t, \mathbf{b}_{l})}{dt} te_{j} + e_{j}P_{lj}(t, \mathbf{b}_{l}) \right]}_{Change in credit revenue} - \underbrace{\sum_{l} \sum_{j} e_{j}P_{lj}(t, \mathbf{b}_{l})}_{Change in perceived CS} + \underbrace{\sum_{l} \sum_{j} b_{lj}G_{lj} \frac{dP_{lj}(t, \mathbf{b}_{l})}{dt}}_{Change in bias}.$$
(6)

Re-arranging gives

$$t \cdot \sum_{l} \sum_{j} \frac{dP_{lj}(t, \mathbf{b}_l)}{dt} e_j = -\sum_{l} \sum_{j} b_{lj} G_{lj} \frac{dP_{lj}(t, \mathbf{b}_l)}{dt},$$

and re-arranging further gives

$$t^* = \frac{-\sum_l \sum_j \frac{dP_{lj}}{dt} b_{lj} G_{lj}}{\sum_l \sum_j \frac{dP_{lj}}{dt} e_{lj}}.$$
(7)

The numerator is the average bias (in dollar terms), weighted by the demand slopes. The denominator translates this average marginal bias from units of dollars to units of dollars per unit fuel intensity. The result that the optimal internality tax equals the average marginal internality parallels the Diamond (1973) result that the optimal externality tax equals the average marginal externality.

To see this most clearly, imagine that all consumers undervalue fuel costs by the same proportion, so $b_{lj} = b < 0$. Further imagine that $G_{lj} = \chi e_j$, where χ reflects discount rates and driving patterns and is constant across consumers. Then the optimal credit price is just $t^* = -b\chi$ per unit of fuel intensity, i.e. a tax that exactly offsets the bias in evaluating each vehicle.

Using this result, we now derive Proposition 1. In the text, we defined the effect of a pure nudge $Q \equiv \sum_l \sum_j e_j [P_{lj}(0, \mathbf{0}) - P_{lj}(0, \mathbf{b}_l)]$ and the stringency of the fuel economy standard $S(t) \equiv$ $\sum_l \sum_j e_j [P_{lj}(t, \mathbf{b}_l) - P_{lj}(0, \mathbf{b}_l)]$. Further define $\Lambda_{lj} \equiv \exp(\eta_l(-e_jt^* - b_{lj}G_{lj}))$ for all vehicles $(j \geq 1)$, and $\Lambda_{l0} = 0$ for the outside option (j = 0). Intuitively, Λ_{lj} is the "mistargeting" of the secondbest policy: the value (in exponentiated utils) of the distortion between the credit price for vehicle j, which is $e_j t^*$, and the bias that it is intended to offset, which is $b_{lj}G_{lj}$.

If b and χ are homogeneous, then $t^* = -b\chi$, so $-e_jt^* - b_{lj}G_{lj} = e_jb\chi - b\chi e_j = 0$, and thus $\Lambda_{lj} = 1$. (Intuitively, when bias (in dollar terms) is homogeneous, a fuel economy standard that imposes a uniform credit price has no mistargeting.) Therefore,

$$\sum_{l} \sum_{j} e_{j} P_{lj}(t, \mathbf{b}_{l}) = \sum_{l} \frac{\sum_{j} e_{j} \exp(V_{lj}(0, \mathbf{0})) \cdot \Lambda_{lj}}{\sum_{j} \exp(V_{lj}(0, \mathbf{0})) \cdot \Lambda_{lj}} = \sum_{l} \frac{\sum_{j} e_{j} \exp(V_{lj}(0, \mathbf{0}))}{\sum_{j} \exp(V_{lj}(0, \mathbf{0}))} = \sum_{l} \sum_{j} e_{j} P_{lj}(0, \mathbf{0})$$
(8)

We thus have $S(t^*) = \sum_l \sum_j e_j [P_{lj}(t, \mathbf{b}_l) - P_{lj}(0, \mathbf{b}_l)] = \sum_l \sum_j e_j [P_{lj}(0, \mathbf{0}) - P_{lj}(0, \mathbf{b}_l)] = Q$, which proves Proposition 1.

Proposition 1 also holds if the following orthogonality conditions hold across all vehicles j, within all types l: $Cov(e_j \exp(V_{lj}(0, \mathbf{0})), \Lambda_{lj}) = 0$ and $Cov(\exp(V_{lj}(0, \mathbf{0}), \Lambda_{lj}) = 0$. Intuitively, these conditions require that the mistargeting of the second best policy Λ_{lj} is unrelated to fuel intensity e_j and true preferences $V_{lj}(0, \mathbf{0})$. Under these conditions, the second equality in Equation (8) holds because

$$\sum_{l} \frac{\sum_{j} e_{j} \exp(V_{lj}(0, \mathbf{0})) \cdot \Lambda_{lj}}{\sum_{j} \exp(V_{lj}(0, \mathbf{0})) \cdot \Lambda_{lj}} = \sum_{l} \frac{\left[\sum_{j} e_{j} \exp(V_{lj}(0, \mathbf{0}))\right] \cdot \left[\sum_{j} \Lambda_{lj}\right] + J^{2}Cov\left(e_{j} \exp(V_{lj}(0, \mathbf{0})), \Lambda_{lj}\right)}{\left[\sum_{j} \exp(V_{lj}(0, \mathbf{0}))\right] \cdot \left[\sum_{j} \Lambda_{lj}\right] + J^{2}Cov\left(\exp(V_{lj}(0, \mathbf{0}), \Lambda_{lj}\right)}$$

$$= \sum_{l} \frac{\left[\sum_{j} e_{j} \exp(V_{lj}(0, \mathbf{0}))\right] \cdot \left[\sum_{j} \Lambda_{lj}\right]}{\left[\sum_{j} \exp(V_{lj}(0, \mathbf{0}))\right] \cdot \left[\sum_{j} \Lambda_{lj}\right]} = \sum_{l} \frac{\sum_{j} e_{j} \exp(V_{lj}(0, \mathbf{0}))}{\sum_{j} \exp(V_{lj}(0, \mathbf{0}))},$$

$$(10)$$

where the equality between the first and second lines holds due to the orthogonality conditions.

D Appendix Tables and Figures



Figure A1: Ford Dealership Experiment Locations

Notes: This map shows the locations of the seven Ford dealerships in the dealership information provision experiment.

	Treatment	Control	Difference
Male	0.57	0.59	-0.01
	(0.01)	(0.01)	(0.02)
Age	40.20	40.02	0.18
	(0.37)	(0.37)	(0.53)
White	0.69	0.71	-0.02
	(0.01)	(0.01)	(0.02)
Income (\$000s)	72.26	73.04	-0.78
	(0.79)	(0.78)	(1.11)
Miles driven/year (000s)	14.64	15.37	-0.72
	(0.36)	(0.48)	(0.61)
Current vehicle is Ford	0.35	0.37	-0.01
	(0.02)	(0.01)	(0.02)
Current fuel intensity (gallons/100 miles)	4.66	4.77	-0.11
	(0.04)	(0.04)	(0.05)
Consideration set fuel intensity (gallons/100 miles)	4.26	4.38	-0.12
	(0.04)	(0.04)	(0.05)
p-value of F-test of joint significance	. ,	0.18	
N	958	$1,\!031$	$1,\!989$
(a) Dealership Experim	nent		
	Treatment	Control	Difference

Table A2: Treatment Group Balance on Observables

	Treatment	Control	Difference
Male	0.56	0.57	-0.01
	(0.01)	(0.01)	(0.01)
Age	54.52	54.49	0.03
	(0.23)	(0.27)	(0.36)
White	0.84	0.83	0.00
	(0.01)	(0.01)	(0.01)
Income $($000s)$	110.57	117.49	-6.92
	(1.83)	(2.89)	(3.26)
Miles driven/year (000s)	11.48	11.54	-0.06
	(0.13)	(0.17)	(0.21)
Current vehicle is Ford	0.12	0.11	0.00
	(0.01)	(0.01)	(0.01)
Current fuel intensity (gallons/100 miles)	4.61	4.61	0.00
	(0.02)	(0.02)	(0.03)
Consideration set fuel intensity (gallons/100 miles)	4.15	4.13	0.03
	(0.01)	(0.02)	(0.02)
p-value of F-test of joint significance		0.27	
Ν	3,771	$2,\!545$	6,316

(b) Online Experiment

Notes: These tables present tests of balance between treatment and control groups in the dealership and online experiments. In each case, the sample is the set of observations that were allocated to treatment or control. The bottom row reports the p-value of an F-test of a regression of the treatment indicator on all covariates. Standard errors in parentheses.

	(1)	(2)
	Dealership	Online
Treatment	0.001	0.016
	(0.018)	(0.011)
N	1,989	6,316
R^2	0.00	0.02
Dependent variable mean	0.81	0.76

Table A3: Attrition by Treatment Condition

Notes: This table presents regressions of an attrition indicator variable on the treatment indicator variable, in the sample of valid observations that were allocated to treatment or control. Estimates with the online experiment data also include treatment group closure time indicators. Robust standard errors are in parentheses.

	(1)	(2)
	Dealership	Online
Male	-0.050	-0.053
	(0.027)	(0.018)
Age	-0.003	0.000
	(0.001)	(0.001)
White	-0.056	-0.021
	(0.029)	(0.023)
$\ln(\text{Income})$	-0.028	-0.038
	(0.038)	(0.011)
Miles driven/year (000s)	-0.000	-0.000
	(0.001)	(0.001)
Current vehicle is Ford	-0.021	-0.023
	(0.026)	(0.029)
Current fuel intensity (gallons/100 miles)	0.007	0.009
	(0.011)	(0.009)
Consideration set fuel intensity (gallons/100 miles)	0.004	-0.010
	(0.012)	(0.011)
Treatment \times Male	0.020	0.027
	(0.040)	(0.023)
Treatment \times Age	0.003	-0.000
	(0.002)	(0.001)
Treatment \times White	-0.011	-0.014
	(0.043)	(0.029)
Treatment $\times \ln(\text{Income})$	0.051	0.019
	(0.053)	(0.015)
Treatment \times Miles driven/year (000s)	0.000	-0.001
	(0.001)	(0.001)
Treatment \times Current vehicle is Ford	0.008	0.022
	(0.039)	(0.036)
Treatment \times Current fuel intensity (gallons/100 miles)	0.000	-0.006
	(0.016)	(0.012)
Treatment \times Consideration set fuel intensity (gallons/100 miles)	-0.012	0.000
	(0.017)	(0.014)
N	1,989	6,316
R^2	0.01	0.03
Dependent variable mean	0.81	0.76
p-value (joint significance of Treatment \times Baseline covariates) s: This table presents regressions of an attrition indicator variable on th	0.77	0.84

Table A4: Test	s of Differential	Attrition from	om Treatment	vs. Con	trol by Baseline Co-
variates					

Notes: This table presents regressions of an attrition indicator variable on the treatment indicator variable and interactions with baseline covariates, in the sample of valid observations that were allocated to treatment or control. Estimates with the online experiment data also include treatment group closure time indicators. Robust standard errors are in parentheses.

	(1)	(2)
	Dealership	Online
Male	-0.041	-0.038
	(0.020)	(0.011)
Age	-0.001	0.000
0	(0.001)	(0.000)
White	-0.061	-0.029
	(0.022)	(0.015)
ln(Income)	-0.004	-0.028
	(0.026)	(0.007)
Miles driven/year (000s)	-0.000	-0.000
	(0.001)	(0.001)
Current vehicle is Ford	-0.017	-0.008
	(0.019)	(0.018)
Current fuel intensity (gallons/100 miles)	0.007	0.005
	(0.008)	(0.006)
Consideration set fuel intensity (gallons/100 miles)	-0.003	-0.009
	(0.009)	(0.007)
N	1,989	6,316
R^2	0.01	0.02
Dependent variable mean	0.81	0.76

Table A5:	Tests	of Differentia	l Attrition	by	Baseline	Covariates
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Notes: This table presents regressions of an attrition indicator variable on baseline covariates, in the sample of valid observations that were allocated to treatment or control. Estimates with the online experiment data also include treatment group closure time indicators. Robust standard errors are in parentheses.

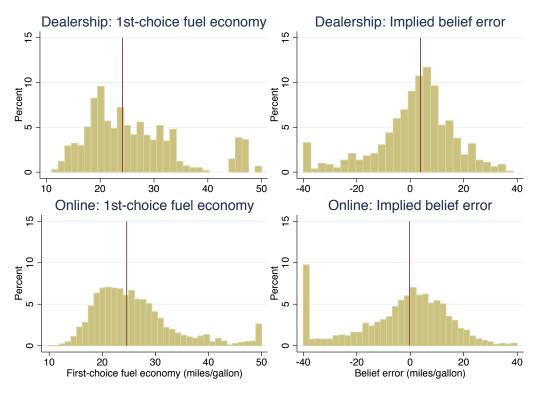


Figure A2: Heterogeneity in Vehicles Considered, and Belief Errors in MPG Units

Notes: The left two histograms present the distributions of fuel economy for consumers' first-choice vehicles. The right two histograms present the implied belief error between the first- and second-choice vehicles—that is, the error in perceived first-choice MPG that would explain the discrepancy between reported and true fuel cost differences between the first- and second-choice vehicles. Outlying observations are collapsed into the outermost bars.

	(1) Valuation ratio:	(2) Valuation ratio: purchased -	(3) Purchased vehicle fuel	(4) Abs. belief error: purchased -
	purchased	2nd choice	intensity	2nd choice
Valuation ratio:				
1st choice	0.541			
	(0.128)			
Valuation ratio:	× /			
1st - 2nd choice		0.248	0.134	
		(0.181)	(0.157)	
Valuation ratio:				
purchased - 2nd choice			-0.169	
			(0.113)	
Abs. belief error:				
1st - 2nd choice				0.240
				(0.175)
N	127	44	44	59
R^2	0.28	0.05	0.04	0.04
Dependent variable mean	0.96	1.03	4.17	1.78

Table A6: Are Elicited Beliefs Meaningful?

(a) **Dealership Experiment**

	(1)	(2)	(3)	(4)
	. ,	Valuation ratio:	Purchased	Abs. belief error:
	Valuation ratio: purchased	purchased - 2nd choice	vehicle fuel intensity	purchased - 2nd choice
Valuation ratio:	-			
1st choice	$0.395 \\ (0.034)$			
Valuation ratio:	· · · · ·			
1st - 2nd choice		0.145	-0.040	
		(0.045)	(0.034)	
Valuation ratio:				
purchased - 2nd choice			-0.094	
-			(0.026)	
Abs. belief error:			()	
1st - 2nd choice				0.094
				(0.047)
N	1,255	925	925	1,127
R^2	0.18	0.01	0.02	0.01
Dependent variable mean	1.07	0.88	4.06	1.33

(b) Online Experiment

Notes: In column 1, valuation ratios are the ratio of perceived to actual annual fuel cost, calculated using Equation (1). In columns 2 and 3, valuation ratios are the ratio of perceived to annual fuel cost differences between the two vehicles, calculated using Equation (2). In column 4, the absolute belief error is the absolute value of the valuation ratio (from Equation (2)) minus one. Columns 2 and 3 exclude observations with negative valuation ratios. Valuation ratios are winsorized to the range $-1 \le \phi \le 4$. Robust standard errors are in parentheses.

	(1)	(2)	(3)	(4)	(5)
	Power	Fuel economy	Price	Leather interior	Sunroof
Treatment	-0.04	-0.56	-0.24	-0.06	0.10
	(0.06)	(0.06)	(0.05)	(0.09)	(0.08)
Male	0.07	-0.59	-0.33	0.05	0.01
	(0.07)	(0.06)	(0.05)	(0.09)	(0.08)
Age	-0.00	-0.00	-0.01	0.01	-0.02
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
White	-0.46	-0.26	-0.13	-0.52	-0.55
	(0.09)	(0.08)	(0.07)	(0.11)	(0.11)
$\ln(\text{Income})$	0.11	-0.43	-0.46	0.83	0.32
	(0.05)	(0.04)	(0.04)	(0.06)	(0.06)
Miles driven/year (000s)	0.01	0.00	-0.00	0.01	0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.01)
Current vehicle is Ford	-0.07	0.10	0.11	-0.27	-0.32
	(0.10)	(0.09)	(0.08)	(0.13)	(0.13)
Current fuel intensity (gallons/100 miles)	0.09	0.06	0.07	0.04	-0.03
	(0.03)	(0.03)	(0.03)	(0.04)	(0.04)
Consideration set fuel intensity (gallons/100 miles)	0.33	-0.49	-0.12	0.41	0.19
	(0.04)	(0.03)	(0.03)	(0.05)	(0.04)
N	5,036	5,036	5,036	5,036	5,036
R^2	0.04	0.13	0.06	0.07	0.04
Dependent variable mean	6.62	7.68	8.31	4.65	3.80

Table A7: Table 3, Panel ((a	a), Including	Coefficients	on	Covariates
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Notes: This table presents estimates of Equation (3). The table parallels Panel (a) of Table 3, except also reporting the coefficients on all covariates. The dependent variables are responses to the question, "How important to you are each of the following features? (Please rate from 1-10, with 10 being "most important.)" Data are from the online experiment, immediately after the treatment and control interventions. All columns control for treatment group closure time indicators. Robust standard errors are in parentheses.

	(1)	(2)	(3)	(4)
	(1) Leather	${}^{(2)}_{5 \mathrm{MPG}}$	(3) 15 MPG	(4) Power: 0-60 MPH
	interior	improvement	improvement	1 second faster
Treatment	4.49	-92.18	-237.96	16.89
	(16.77)	(15.81)	(35.14)	(19.35)
Male	14.00	36.10	122.09	116.47
	(16.65)	(15.88)	(35.01)	(19.38)
Age	-1.25	-6.31	-16.20	-6.37
	(0.64)	(0.60)	(1.36)	(0.82)
White	-75.49	-5.92	90.28	-157.05
	(24.82)	(23.52)	(50.18)	(35.81)
ln(Income)	146.31	73.21	187.55	36.91
	(11.93)	(10.90)	(24.96)	(14.14)
Miles driven/year (000s)	3.85	4.15	10.65	2.41
	(1.18)	(1.09)	(2.89)	(0.94)
Current vehicle is Ford	-35.59	43.05	38.27	-3.59
	(23.76)	(25.03)	(51.89)	(33.70)
Current fuel intensity (gallons/100 miles)	-0.40	9.16	21.32	-6.05
	(8.49)	(8.12)	(18.10)	(10.00)
Consideration set fuel intensity (gallons/100 miles)	53.07	19.64	26.23	51.78
	(9.86)	(8.13)	(18.77)	(11.06)
Ν	4,609	4,512	4,512	4,609
R^2	0.06	0.06	0.07	0.05
Dependent variable mean	380	409	1043	242

Table A8: Table 3, Panel (b),	Including	Coefficients on	Covariates
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Notes: This table presents estimates of Equation (3). The table parallels Panel (b) of Table 3, except also reporting the coefficients on all covariates. Dependent variables are responses to the question, "Imagine we could take your most likely choice, the [first choice vehicle], and change it in particular ways, keeping everything else about the vehicle the same. How much additional money would you be willing to pay for the following?" In both panels, the feature is listed in the column header. Data are from the online experiment, immediately after the treatment and control interventions. All columns control for treatment group closure time indicators. Robust standard errors are in parentheses.

	Expected fuel intensity
	(gallons/100 miles)
Treatment	-0.032
	(0.004)
Male	0.013
	(0.005)
Age	-0.000
	(0.000)
White	-0.008
	(0.006)
ln(Income)	0.007
	(0.006)
Miles driven/year (000s)	-0.000
	(0.000)
Current vehicle is Ford	0.003
	(0.007)
Current fuel intensity (gallons/100 miles)	0.003
	(0.003)
Consideration set fuel intensity (gallons/100 miles)	0.985
	(0.005)
N	5,018
R^2	0.97
Dependent variable mean	4.12

Table A9: Table 3, Panel	(c),	Including	Coefficients o	n Covariates
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Notes: This table presents estimates of Equation (3). The table parallels Panel (c) of Table 3, except also reporting the coefficients on all covariates. The dependent variable is the weighted average fuel intensity (in gallons per 100 miles) of the two vehicles in the consideration set, weighted by post-intervention stated purchase probability. Data are from the online experiment, immediately after the treatment and control interventions. All columns control for treatment group closure time indicators. Robust standard errors are in parentheses.

	(1)	(2)
	Stated	Purchased
	preference	vehicle
Base Only	-0.028	0.001
	(0.007)	(0.063)
Base + Relative	-0.026	0.037
	(0.009)	(0.065)
Base + Climate	-0.034	0.122
	(0.007)	(0.059)
All	-0.040	-0.055
	(0.008)	(0.070)
N	5,018	1,489
R^2	0.97	0.39
Dependent variable mean	4.08	4.09
p-value(Treatment effects equal)	0.54	0.12
p-value(Treatment effects equal 0)	0.00	0.16

Table A10: Separate Estimates of Effects for Each of the Four Online Treatments

Notes: This table presents estimates of Equation (3), with separate treatment indicators for each of the four online treatment groups. In column 1, the dependent variable is the weighted average fuel intensity (in gallons per 100 miles) of the two vehicles in the consideration set, weighted by post-intervention stated purchase probability. In column 2, the dependent variable is weighted average fuel intensity of the vehicle the consumer actually purchased, using data from the follow-up survey. Both columns control for gender, age, race, natural log of income, miles driven per year, an indicator for whether the current vehicle is a Ford, current vehicle fuel intensity, consideration set average fuel intensity, and treatment group closure time indicators. Robust standard errors are in parentheses.

	(1)	(2)	(3)	(4)	(5)	(6)
	D	ealership	2		$\underline{\text{Online}}$	
Treatment	32.1	80.0	6.2	37.5	24.9	-17.3
	(151.8)	(65.5)	(95.9)	(50.8)	(25.9)	(42.1)
N	371	371	371	1,444	1,444	1,444
R^2	0.00	0.81	0.85	0.00	0.78	0.84
Dependent variable mean	2398	2398	2398	1467	1467	1467
Controls	No	Yes	Yes	No	Yes	Yes
Weighted	No	No	Yes	No	No	Yes
90% confidence interval lower bound	-218.4	-28.0	-152.1	-46.3	-17.9	-86.9

 Table A11: Effects of Information on Annual Fuel Cost of Purchased Vehicles

Notes: This table presents estimates of Equation (3). The dependent variable is the fuel cost (in dollars per year) of the vehicle purchased, given the fuel economy ratings and consumers' self-reported miles driven, city vs. highway share, and per-gallon gasoline price. All columns control for gender, age, race, natural log of income, miles driven per year, an indicator for whether the current vehicle is a Ford, current vehicle fuel intensity, and consideration set average fuel intensity. Columns 4-6 also control for treatment group closure time indicators. Samples in columns 3 and 6 are weighted to match the national population of new car buyers.

Are Consumers Poorly-Informed about Fuel Economy? Evidence from Two Experiments

Hunt Allcott and Christopher Knittel

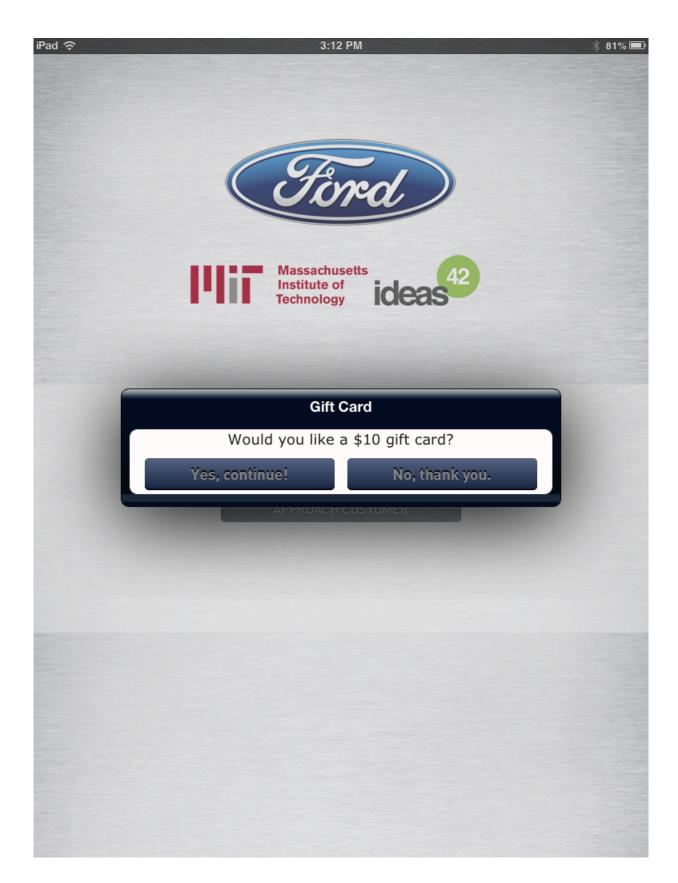
January 13, 2017

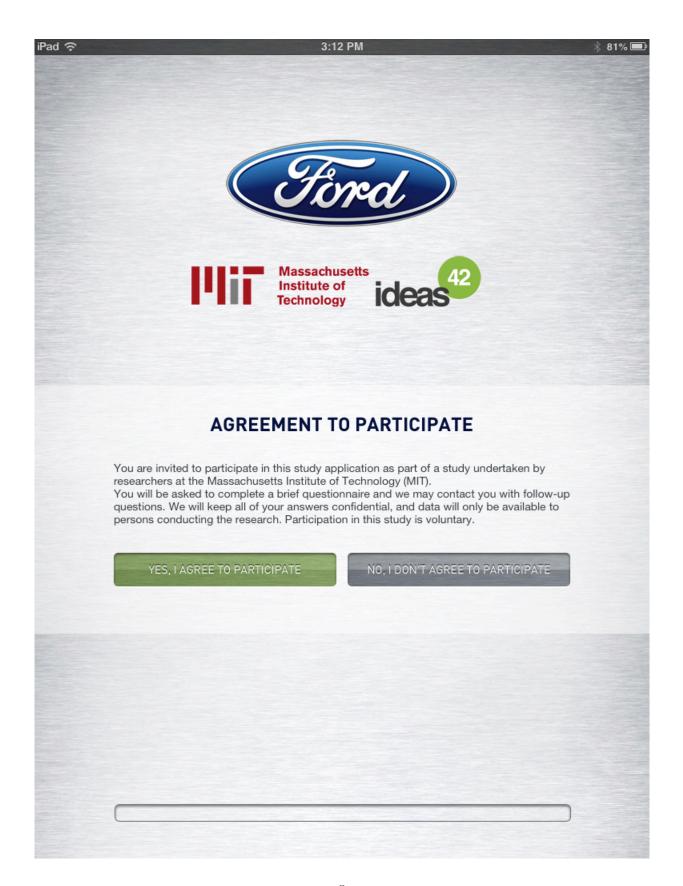
Abstract

This online appendix presents screen shots from the dealership and online interventions

I Dealership Experiment Screen Shots





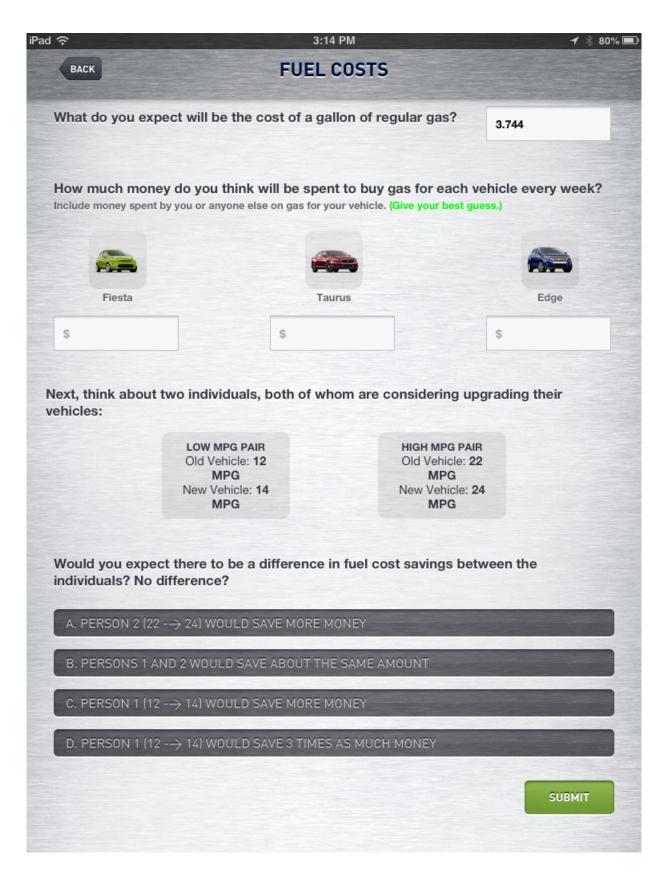


BACK		BACKGR	OUND		
What car do v	ou drive now?	2			
Year 🗸	Make 🗸	Model	*	Options	*
I DO NOT USE	A CAR CURREI	NTLY			
		a say you've spent isiting dealerships, onlin			to buy?
					20-
How sure are	you about wh	at car you will pur	chase?		
		at car you will pur	chase?		
NOT AT ALL	SURE	at car you will pur	chase?		
NOT AT ALL NOT SO SI	SURE	at car you will pur	chase?		
NOT AT ALL NOT SO SI FAIRLY SU	SURE JRE JRE	at car you will pur	chase?		
NOT AT ALL NOT SO SI	SURE JRE JRE	at car you will pur	chase?		
NOT AT ALL NOT SO SI FAIRLY SU	SURE JRE JRE RTAIN	at car you will pur	chase?		
NOT AT ALL NOT SO SI FAIRLY SU ALMOST CEI	SURE JRE JRE RTAIN	at car you will pur	chase?		
NOT AT ALL NOT SO SI FAIRLY SU ALMOST CEI	SURE JRE JRE RTAIN	at car you will pur	chase?		

		QUESTION	NAIRE		
What are th	ne one or two mos	st important factor	s in your decisio	on of what car	to buy?
1		STYLE		MANUFACTURER INC	ENTIVES
2	FU	PRICE EL ECONOMY	BRAND	VALUE	
f you purcl	hase a car. how m	nany years do you	plan to own it?		
)	0	, , ,			20+
		ect that your vehic		each year?	
-		ect that your vehic else who might drive th		each year?	
				each year?	
-	y by you and by anyone	else who might drive th	e vehicle. Year		
-	y by you and by anyone	else who might drive th	e vehicle. Year		
nclude driving	by you and by anyone	else who might drive th	e vehicle. Year		
nclude driving	by you and by anyone	else who might drive th PER	e vehicle. Year		
nclude driving	by you and by anyone	else who might drive th PER	e vehicle. Year		
nclude driving	by you and by anyone	else who might drive th PER	e vehicle. Year		Next
nclude driving	by you and by anyone	else who might drive th PER	e vehicle. Year		Next

Which vehic	les are you o Drag a		two and up to the	nree from the list	below.	
	#1		#2		#3	
Cars					Crossover	'S
Fiesta	Focus	Fusion	Mustang	Taurus	Edge	Flex
Hybrids &	EVs			SUVs		
Fusion Hybrid	Escape Hybrid	Focus Electric	C-MAX Hybrid	Escape	Explorer	Expedition
Trucks						
Transit Connect	F-150	E Series Wagon				
Lincoln						
MKZ	MKS	мкх	МКТ	Navigator	MKZ Hybrid	
	nother option b					
Year 🗸	Make	✓ Model		* 0	Options	~

BACK	CONTACT INFO	
Please enter your co	ontact information:	
aift card for: *	Target Amazon	
lame: *	Name	
street Address: *	Address	
ip Code: *	Zip Code	
mail: *	Email	
hone 1: *	Phone 1	
hone 2:	Phone 2	
		SUBMIT



ŝ	3:14 PM	* 80%
BACK	FUEL COSTS	
What do	o you expect will be the cost of a gallon of regular gas? 3.744	
How mu	uch money do you think will be spent to buy gas for each vehicle every wee	k?
	Back Miles per Gallon can be confusing!	
	The person switching from 12 MPG to 14 MPG would save three times more money than the person switching from 22 MPG to 24 MPG.	
1000	12 MPG avg. annual costs: \$4,688 22 MPG avg. annual costs: \$2,557	
	14 MPG avg. annual costs: \$4,018 24 MPG avg. annual costs: \$2,344	
Vext, t	PERSON 1's savings: 12 to 14 MPG: \$670 PERSON 2's savings: 22 to 24 MPG: \$213	
vehicle		
100	12 MPG 14 MPG 22 MPG 24 MPG	
	One complete line equals \$500 in annual fuel costs (estimated)	
Woul	That's why we're giving you information about fuel economy in terms of how much you'll pay each year, for every option you're considering.	
A. F	Okay	
B.F		
C. PER	RSON 1 (12 - \rightarrow 14) WOULD SAVE MORE MONEY	
D. PER	RSON 1 (12 - $ ightarrow$ 14) WOULD SAVE 3 TIMES AS MUCH MONEY	
	SUBMI	T

		PM	* 80
BACK	FUEL ECONOM	Y CALCULATOR	
Fuel costs	of the car options you were cons	idering, at \$3.74 per ga	allon:
		ANNUAL FUEL COSTS (Savings)	LIFETIME FUEL COSTS
	CURRENT VEHICLE 2010 Ford Crown Victoria Ffv Auto 4-spd 8-cyl 4.6L	\$2,000 (\$0)	\$20,579
	VEHICLE #1 2013 Ford Fiesta FWD Auto 6-spd 4-cyl 1.6L	\$1,156 (\$844)	\$11,890
	VEHICLE #2 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L	\$1,807 (\$193)	\$18,593
	VEHICLE #3 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.7L	\$1,966 (\$34)	\$20,233
Ford Crown	you \$844 each year in fuel costs n Victoria Ffv.	to drive a Ford Fiesta	FWD compared to a
Victoria Ffv	ta FWD will save you \$8,689 over That's the same as		to a Ford Crown
Victoria Ffv		s it would cost for:	
	That's the same as	s it would cost for:	

Tuel costs can vary a lot within models. ANNUAL FUEL COSTS LIFETIME FUEL COSTS 41 2013 Ford Fiesta SFE FWD Auto 6-spd 4-cyl 1.6L \$1,144 \$11,767 2013 Ford Fiesta FWD Manual 5-spd 4-cyl 1.6L \$1,156 \$11,890 2013 Ford Fiesta FWD Auto 6-spd 4-cyl 1.6L \$1,156 \$11,890 2013 Ford Taurus FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,474 \$15,167 2013 Ford Taurus FWD Fiex Fuel Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus FWD Fiex Fuel Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus FWD Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus AWD Fiex Fuel Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,556 \$16,012 2013 Ford Edge FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903			Contraction of the	
FUEL COSTS FUEL COSTS 2013 Ford Fiesta SFE FWD Auto 6-spd 4-cyl 1.6L \$1,144 \$11,767 2013 Ford Fiesta FWD Manual 5-spd 4-cyl 1.6L \$1,156 \$11,890 2013 Ford Fiesta FWD Auto 6-spd 4-cyl 1.6L \$1,156 \$11,890 2013 Ford Taurus FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,156 \$11,890 2013 Ford Taurus FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,474 \$15,167 2013 Ford Taurus FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus FWD Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus AWD Flex Fuel Auto 6-spd 6-cyl 3.5L \$1,671 \$18,593 2013 Ford Taurus AWD Flex Fuel Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903	Fuel costs	can vary a lot within models.		
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EcoBoost Auto 6-spd 4-cyl 2L \$1,474 \$15,167 #2 2013 Ford Taurus FWD Flex Fuel Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus FWD Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus FWD Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,671 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,807 \$18,593 #3 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 3.5L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903		2013 Ford Taurus EWD		-
#2 2013 Ford Taurus FWD Flex Fuel Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus FWD Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus AWD Flex Fuel Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903			\$1,474	\$15,167
#2 Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 #2 2013 Ford Taurus FWD Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus AWD Flex Fuel Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903		Auto 6-spd 4-cyl 2L		
#2 2013 Ford Taurus FWD Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus AWD Flex Fuel Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,556 \$16,012 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 #3 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903			64.074	¢47.400
Auto 6-spd 6-cyl 3.5L \$1,671 \$17,198 2013 Ford Taurus AWD Flex Fuel Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903	#2	Auto 6-spd 6-cyl 3.5L	\$1,671	\$17,198
#3 2013 Ford Edge FWD \$1,807 \$18,593 #3 2013 Ford Edge FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 #3 2013 Ford Edge FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,556 \$16,012 2013 Ford Edge FWD EcoBoost Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$18,019 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903		2013 Ford Taurus FWD		
Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.7L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903		Auto 6-spd 6-cyl 3.5L	\$1,671	\$17,198
Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.7L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903		2010 Ford Towns AWD Flow Fred		
2013 Ford Taurus AWD Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903			\$1,807	\$18,593
Auto 6-spd 6-cyl 3.5L \$1,807 \$18,593 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,556 \$16,012 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903				
#3 2013 Ford Edge FWD EcoBoost Auto 6-spd 4-cyl 2L \$1,556 \$16,012 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$100 \$100 2013 Ford Edge AWD \$100 \$100 2013 Ford Edge AWD \$1,837 \$18,903 2013 Ford Edge AWD \$100 \$100			\$1,807	\$18 593
Auto 6-spd 4-cyl 2L \$1,556 \$16,012 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,000 \$1000		Auto o-spa o-cyi 3.5L	\$1,007	\$10,000
Auto 6-spd 4-cyl 2L \$1,556 \$16,012 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.5L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,000 \$1000		2013 Ford Edge FWD EcoBoost		
#3 Auto 6-spd 6-cyl 3.5L \$1,724 \$17,737 #3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.7L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903			\$1,556	\$16,012
#3 2013 Ford Edge FWD Auto 6-spd 6-cyl 3.7L 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD 2013 Ford Edge AWD 2013 Ford Edge AWD		2013 Ford Edge FWD		
2013 Ford Edge FWD Auto 6-spd 6-cyl 3.7L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,000 \$1000	#3	Auto 6-spd 6-cyl 3.5L	\$1,724	\$17,737
Auto 6-spd 6-cyl 3.7L \$1,751 \$18,019 2013 Ford Edge AWD Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD \$1,837 \$18,903	#5	2013 Ford Edge FWD		
Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD 50,000 50,000 50,000			\$1,751	\$18,019
Auto 6-spd 6-cyl 3.5L \$1,837 \$18,903 2013 Ford Edge AWD 40,000 40,000 40,000		2013 Ford Edge AWD		
			\$1,837	\$18,903
Auto 6-spd 6-cyl 3.7L \$1,966 \$20,233		2013 Ford Edge AWD		
		Auto 6-spd 6-cyl 3.7L	\$1,966	\$20,233

<u></u>	3:15 PM	
BACK	SURVEY COMPLETE	
Was this informatio	on surprising? Gasoline costs are:	
MORE THAN I	THOUGHT	
LESS THAN I 1	THOUGHT	
THE SAME AS I	THOUGHT	
I HAD NOT THOU		
GASOLINE COSTS	SUNTIL NOW	
our decision and a	participation! We want to follow-up with years you which car you bought. How many y	
our decision and a ou think that will b	ask you which car you bought. How many v	
our decision and a ou think that will b	ask you which car you bought. How many v	
our decision and a ou think that will b	ask you which car you bought. How many v	weeks in the future do
our decision and a ou think that will b	ask you which car you bought. How many v	weeks in the future do
our decision and a ou think that will b	ask you which car you bought. How many v	weeks in the future do
our decision and a ou think that will b	ask you which car you bought. How many v	weeks in the future do
our decision and a ou think that will b	ask you which car you bought. How many v	weeks in the future do
our decision and a ou think that will b	ask you which car you bought. How many v	weeks in the future do
	ask you which car you bought. How many v	weeks in the future do
our decision and a ou think that will b	ask you which car you bought. How many v	weeks in the future do

Pad	ন	3:15 PM	* 80% 🔳
	ВАСК	SURVEY COMPLETE	
	Was this inf	ormation surprising? Gasoline costs are:	
		THAN I THOUGHT	
	LESS	THAN I THOUGHT	
	THE SA	ME AS I THOUGHT	
		OT THOUGHT ABOUT E COSTS UNTIL NOW	
	-	Back Thank You	
	Thank yo your deci you think	Great! We'll call you some time after that. Do you promise you'll try to answer the phone when we call?	nade ire do
	Today 🛑	Yes, i Agree.	20
		SUBMIT	
			7

I.A RA Notes Screen

Ŷ	3:15 PM	* 80% 🗖
BACK	NOTES	
Did they complete th	ne information intervention?	
YES	NO	
Age:		
Age	*	
Gender:		
FEMALE	MALE	
Ethnicity:		
Ethnicity	*	
Referral:		
Comments:		
		SUBMIT

Note: The research assistant filled out this screen after every completion or refusal.

I.B Attachment to Follow-Up Email

Ford/MIT/Ideas42 survey - ShowFuelEconomyCalculator TreatmentInfo

FUEL ECONOMY CALCULATOR

Fuel costs of the car options you were considering, at \$4.00 per gallon:

	ANNUAL FUEL COSTS (Savings)	LIFETIME FUEL COSTS
CURRENT VEHICLE 2005 Dodge Neon/Srt-4/Sx 2.0 Auto 4-spd 4-cyl 2L	\$1,569 (\$0)	\$13,450
VEHICLE #1 2013 Ford Fiesta FWD Auto 6-spd 4-cyl 1.6L	\$1,297 (\$271)	\$11,124
VEHICLE #2 2013 Ford Fusion FWD Auto 6-spd 4-cyl 2.5L	\$1,558 (\$10)	\$13,363

It will save you \$271 each year in fuel costs to drive a Ford Fiesta FWD compared to a 2005 Dodge Neon/Srt-4/Sx 2.0.

A Ford Fiesta FWD will save you \$2,327 over its lifetime compared to a 2005 Dodge Neon/Srt-4/Sx 2.0.

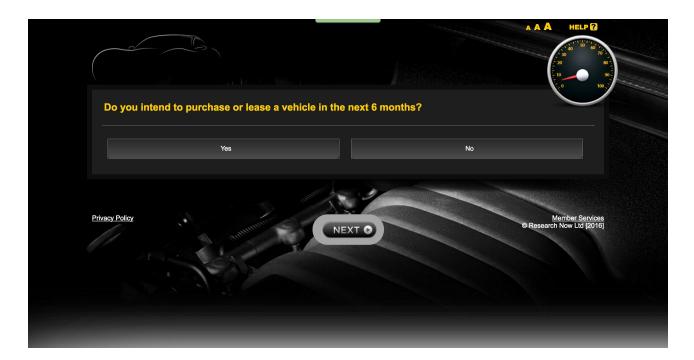
That's the same as it would cost for:

4.7 iPads2.3 Tickets to Hawaii47 Pairs of Levi's Jeans

Note: This information (with the customer's current vehicle and consideration set) was sent as an email attachment to the treatment group.

II Online Experiment Screen Shots

II.A Introductory Screens Shown to All Participants



	Massachusetts Institute of Technology
AGREEMEN	NT TO PARTICIPATE
You recently reported to ResearchNow that you a team from the Massachusetts Institute of Tec between vehicles. We would like to ask you a fe	u are in the market to buy or lease a car or truck. We are chnology (MIT) that is studying how people choose few questions.
We will keep all information and all of your ans	aire and we may contact you with follow-up questions. swers confidential, and data will only be available to the o risks to participation. Participation in this study is
YES, I AGREE TO PARTICIPATE	NO, I DON'T AGREE TO PARTICIPATE

NEXT 오

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			20 ¹
	CURRENT VEHIC	LE	
ne car or truck that you are c	considering replacing	?	
ng or leasing an additional car or truck that t	will not replace an existing vehicl	e, just tell us what you currently drive	ə the most.
	best guess.		
	I DO NOT USE A VEHICLE CURF	ENTLY	
	NEXT O		Member Services © Research Now Ltd [2016]
	ng or leasing an additional car or truck that	ne car or truck that you are considering replacing? Ing or leasing an additional car or truck that will not replace an existing vehicle a a a a a a a a a a a a a	and f re about your engine size, just select your best guess. I DO NOT USE A VEHICLE CURRENTLY

	A A A HELP 2
QUESTIONS ABOUT YOUR V	EHICLE SHOPPING
How many hours would you say you've spent so far rese	arching which vehicle to buy/lease?
Includes discussions with friends, visiting dealerships, online research, or other resear	sh.
Hours	
How sure are you about what vehicle you will purchase/	ease?
NOT AT ALL SURI	
NOT SO SURE	
FAIRLY SURE	
ALMOST CERTAIN	
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				A A A HELP?	
		MILEAGE ESTIMATES			
	How many miles do you expect that you	ur vehicle will be driven?			
	Include driving by you and anyone else who might drive the	vehicle. You may select Year, Month, or W	leek from the menu.		
	Miles Per Please select your answer • What percent of your miles driven are of Please dreg the slider left or right to record your response.	ity-based versus highway-b	pased?		
	50% 100% City		50% 100% Highway		
Ē	Privacy Policy	•		<u>Member Services</u> © Research Now Ltd [2016]	

WHAT CARS ARE YOU	SHOPPING FOR?
What is the car or truck that you think you are most like	ely to purchase or lease?
Year 🗘	
Make 🗘	
Model •	
Transmission 🔹	
Engine Size (Liters) \$ If you aren't sure about your engine size, just select your best guess.	
Imagine that your most likely model did not exist. What likely to purchase or lease instead?	is the car or truck that you would be most
Year +	
Make 🗘	
Model +	
Transmission 🗘	
Engine Size (Liters) 🕈	
If you aren't sure about your engine size, just select your best guess.	
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VEH	ICLE PURCHASE
If you had to guess, how many weeks do you	think it will be until you actually purchase or lease a car?
Weeks	
If you purchase or lease a car, how many yea Nobody knows for sure, just give your best guess.	rs do you plan to own/lease it before you replace it?
Years	
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What do vo		ANNUA			1
What do vo		ANNOA	L COST PROJEC ⁻	TIONS	\cup
you plan to	u think the avera own your poten	ige annual cost tial purchases/le	of each of the bel ases?	ow items would be o	over the years that
Average annual c	ost of:				
	2009 Cadillac Escalade ESV 2WD	2007 Chevrolet Colorado 2WD			
Insurance	\$	\$			
Gasoline	\$	\$			
Maintenance	\$	\$			
your potent	u think will be th ial purchases/lea on (Please include dollars a	ases?	of gasoline <u>per ga</u>	<u>llon</u> over the years t	hat you plan to own

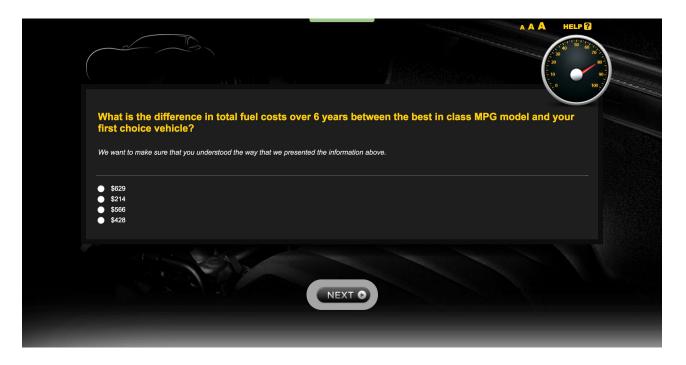
CHAN	NCE OF PURCHASE	
Imagine that you are choosing only between Cadillac Escalade ESV 2WD and 2007 Chevro buy one or the other? Chance that I will buy: Please drag the slider "left" or "right" to record your response. 50% 2009 Cadillac Escalade ESV 2WD	the two vehicles you told us about above, the 2009 olet Colorado 2WD. What do you think is the chance you'll 50% 2007 Chevrolet Colorado 2WD	
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II.B Treatment Screens

					A A A HELP ?	
					40 50 60 70 30 70 20	80
					10 10	
		FUEL COSTS FOR YOU	R CHOICES		\smile	
The table below economy amor	v compares your ng all Sport Utility	first and second choice v Vehicles, which is the 20	ehicles to the 09 Ford Escap	vehicle with the e Hybrid FWD.	e highest fuel	
*We've determined the	se figures from official gov	ernment fuel economy ratings, your rep	ported number of miles	s that you expect to driv	re, and the current	
national average gasol	ine price.					
			ANNUAL FUEL COSTS*	TOTAL FUEL COSTS OVER 6 YEARS*		
сно	DICE #1	2009 Cadillac Escalade ESV 2WD	\$201	\$1,190		
снс	DICE #2	2007 Chevrolet Colorado 2WD	\$146	\$861		
HIGI	HEST FUEL ECONOMY	2009 Ford Escape Hybrid FWD	\$95	\$561		
	ort Utility Vehicles]					
\$1,200			\$1,190			_
\$900						
4300			\$861			
\$600				\$561		
\$300						
	\$201	\$146				
\$0	Fuel Cost over	\$95 One Year (Annual)	Fuel Cost over 6	5 Years		
	2009 Cadillac Esc	alade 2007 Chevrolet Colo	orad 2009 F	ord Escape Hybri		
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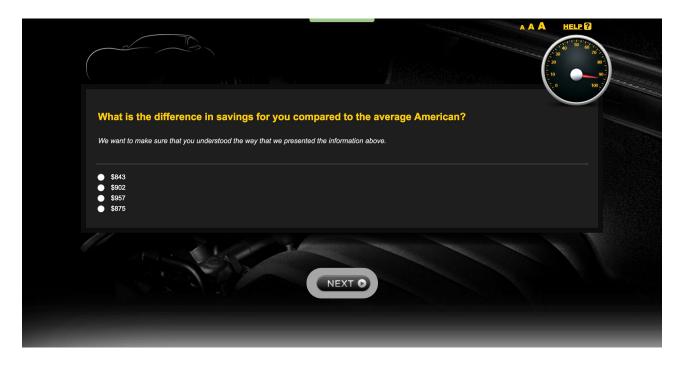






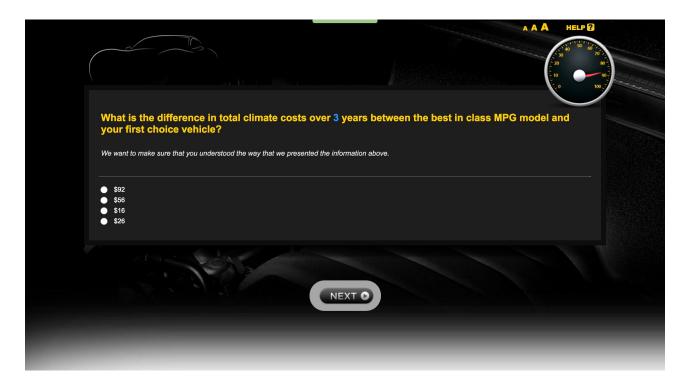
II.C Relative Treatment Screens

				A A	A HELP ()
					20 00 70 20 00 70 20 00 70 20 00 70
	THE B	ENEFITS OF A HIGHER-MP	G VEHICLE DEPEND	ON HOW MUCH YOU DRIVE	
	People who driv as much won't s		en they buy a higher M	MPG vehicle. People who do	n't drive
	You told us that owner.	you drive about 25 miles pe	er week, which is 89%	less than the average US ve	ehicle
	among all Sport vehicle. The bar	Utility Vehicles, the 2009 Fo	ord Escape Hybrid FW al savings given your	with the highest fuel econo /D, instead of your most like estimated miles driven, whi ade the same switch.	ly
	\$1,000		\$981		
	\$750		-		
	\$500		_	<u> </u>	
	\$250		_	<u> </u>	
2	\$0	\$106 When driving the best	MPG in class model over one ye	ear	
		Your Savings	Average American's Saving	gs	
			NEXT O		
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II.D Climate Treatment Screens

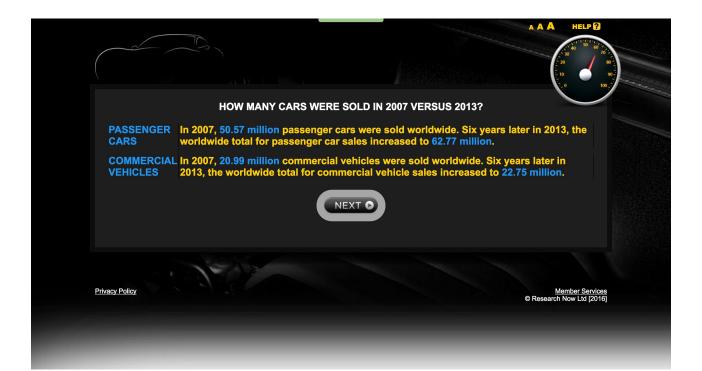
					A A A	
	6.3					50 60 70
					20	80 1
						100
		ENVIRONMENT	AL COSTS OF	GASOLINE		
Aside	from costing you m	oney, gasoline use al	so emits carb	on dioxide, w	which can cause climate as air conditioning costs,	
	es crop output from		naturai uisas	lers, increase	es all conditioning costs,	anu
					cost of climate change	
cause	d by gasoline use. T	he table and figure b	elow display t	hese costs:		
	etermined these figures from c verage gasoline price.	fficial government fuel economy	ratings, your reported	number of miles the	at you expect to drive, and the current	
				CLIMATE	ן	
			ANNUAL CLIMATE COST	COSTS OVER 3 YEARS		
	CHOICE #1	2007 Buick Rainier AWD	\$40	\$120	_	
	CHOICE #2 BEST IN CLASS MPG	2010 Cadillac Limousine	\$43	\$128	-	
	VEHICLE	2007 Ford Escape Hybrid FWD	\$21	\$64		
	\$120		.	\$128		
	\$80					
					\$64	
	\$40\$	40 \$43				
		\$21				
	\$0 Climate	Cost Over One Year (Annual)	CI	imate Cost Over 3	Years	
	2007 Bui	ck Rainier AWD 2010 C	adillac Limousine	2007 Ford E	scape Hybrid F	
			NEXT O			
	-					
_						
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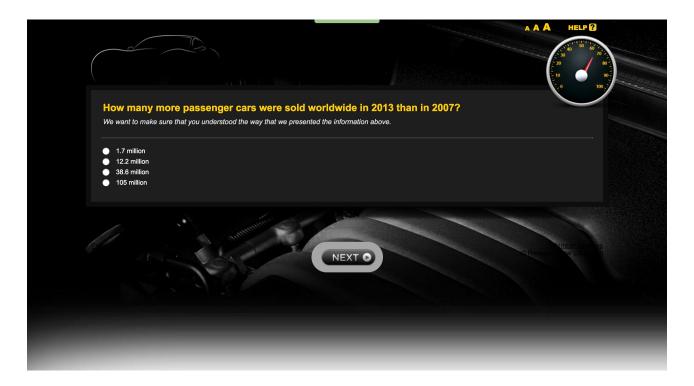
II.E Control Screens

	WORLDWIDE SALES OF VEHICLES	
The table and figures below [*] vehicles sold in the years 20	compare the total worldwide number of p 07, 2010, and 2013.	assenger and commercial
*We've gathered this data from OICA (http:/	/www.oica.net/category/sales-statistics/)	
	COMMERCIAL PASSENGER VEHICLE CAR SALES SALES	
	2007 50.57 Millio 20.99 Millio	
	2010 55.45 Millio 19.56 Millio	
	2013 62.77 Millio 22.75 Millio	
80 M		
60 M	62.77 M	
40 M		
20 M ———	20.99 M 19.56	M 22.75 M
0 M Pas	senger Car Sales Commercial Ve	hicle Sales
	2007 2010 2013	
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Note: These four screens are designed to parallel the four treatment screens in II.B.



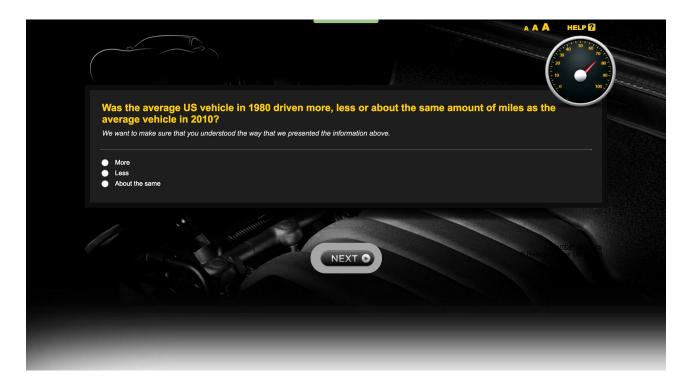




II.F Mileage Control Screens



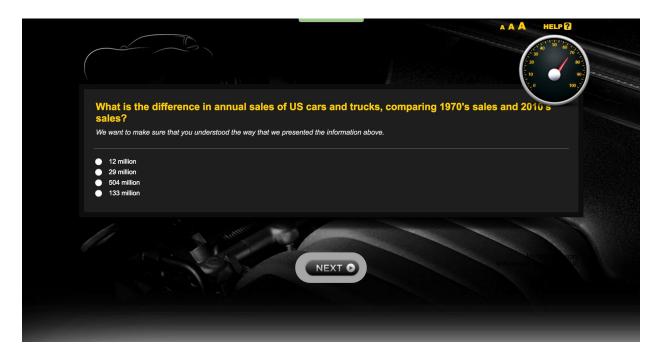
Note: These four screens are designed to parallel the two relative treatment screens in II.C.



II.G Sales Control Screens



Note: These two screens are designed to parallel the two climate treatment screens in II.D.



Note: The respondent had to answer this question correctly before advancing to the next screen.

II.H Closing Screens Shown to All Participants

)
				VEH	IICLE FE	ATURE	S				
How importa	nt to you	are eacl	h of the	followin	ng featur	es?					
Please rate from 1-	10, with 10 beir	ng "most im _l	portant."								
	Least Important	2	3	4	5	6	7	8		9	Most Important 10
Price								°			
Fuel Economy Sun Roof	<u> </u>	_			_	_	_	_	_	_	
Power		_			_	_	_	_			_
Leather Interior											
magine we d	could take	vour m	ost like	ly choic	e the 20	09 Cadi	illac Es	calade l	-SV 2V	ND an	d char
magine we o particular wa low much a	ıys, keepiı	ng every	ything e	else abo	ut the ve	hicle th	e same		ESV 2V	VD, an	ıd char

CHANG	CE OF PURCHASE	
Imagine that you are choosing only between the Cadillac Escalade ESV 2WD and 2007 Chevrole buy one or the other? Chance that I will buy: Please drag the slider "left" or "right" to record your response. 50% 2009 Cadillac Escalade ESV 2WD	he two vehicles you told us about above, the 2009 let Colorado 2WD. What do you think is the chance you'll 50% 2007 Chevrolet Colorado 2WD	
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Thanks for participating in the Do you have any comments		
We'll be following up with yo	, ou in another survey in the future to hear ab	out your shopping experience.
Feel free to visit <u>FuelEconon</u> different vehicles similar to v	ny.goy, where you can uncover more compa what you saw in this survey.	arative fuel cost information of
Privacy Policy		Member Services

II.I Follow-Up Survey



		Massachusetts Institute of)
	with us, we asked you about your connew or used vehicle since you tool	Technology hoices regarding a potential upcoming vehicle purchas k the survey in March or April?	ø.
	YES	ΝΟ	
What vehicle did you purchase?			
What vehicle did you purchase? Year Make			
Year \$			

O BACK NEXT O

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How import	ant to you a	are eac	ch of the f	followin	g featur	es?					0 100
Please rate from 1		ng "most in	nportant."								
	Least Important									Most Important	
Leather Interior	1	2	3	4	5	6	7	8	9	10	
Power											
Sun Roof											
Fuel Economy											
Price											
Imagine we	could take	your v	ehicle ch	loice, th	e 2014 A	ston M	artin Raj	oide S <mark>,</mark> a	nd chai	nge it in par	ticular
Imagine we ways, keepi How much a	ng everyth	ing els	e about t	he vehio	cle the s	ame.			Ind chai	nge it in par	ticular

		A A A HELP D
	a dealership, what price did you pa lealership may have given you for trading in an old vehic	
\$		
Most people are deciding betwee you bought/leased did not exis gotten instead?	een several different vehicles that th t. What was your "second choice vel	ey like. Imagine that the model that hicle" - the vehicle you would have
Year 🗘		
Make 🗘		
Model		
Transmission 🗘		
Engine Size (Liters) 🗘		
Does your second choice vehic purchased?	cle have a lower or higher MPG rating	g than the vehicle you actually
lf you don't recall, just give your best guess.		
HIGHER	LOWER	EXACTLY THE SAME
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How much money do you think the following things would cost each year for your purchase/lease and your second choice? Image: second choice in the following things would cost each year for your purchase/lease and your second choice? Image: second choice in the following things would cost each year for your purchase/lease and your second choice? Image: second choice in the following things would cost each year for your purchase/lease and your second choice? Image: second choice in the following things would cost each year for your purchase/lease and guartro in the following things in the following things would cost each year for your purchase/lease and your second choice? Image: second choice in the following things would cost each year for your purchase/lease and the following things would cost each year for your purchase/lease and the following things would cost each year for your purchase/lease and the following things would cost each year for your purchase/lease and the following the purchase and result provide between purchase and res					× 40 50 60 70 20 30 70 20 10 10 10 10 10 10 10 10 10 10 10 10 10
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Thanks for participating in our surveys!	COMMENTS	
Do you have any comments that you'd like to	o share?	
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