

We have six supplemental tables that show (1) additional demographic variables of home ownership, FEMA region, number of adults living in the household and telephone usage (cell or landline); (2) a color version of Table S2 that is in the manuscript and Tables S3–S6 the importance feature rank (number 1–40), variable, variable description, X.IncMSE, and IncNodePurity for all four groups separately (Black racial identity and age 65+, Black racial identity, age 65+, total sample) to provide complete information with Table S2.

Supplementary Table S1. Additional demographic variables for the 2018, 2019 and 2020 National Household Surveys [54].

Demographic characteristics	<i>n</i>	%
Rent/own home		
Rent	4296	28.55
Own	9769	64.92
Don't know	82	0.54
Refused	610	4.05
Other	291	1.93
FEMA region		
1	320	2.13
2	1132	7.57
3	1032	6.86
4	3,390	22.53
5	1231	8.18
6	2078	13.81
7	513	3.41
8	722	4.80
9	3656	24.30
10	727	4.83
Missing	247	1.64
Number of adults living in the household		
1	3,668	24.38
2-5	10,695	71.07
6-10	193	1.28

11-20	25	0.17
21-30	5	0.03
31-40	2	0.01
>41	17	0.11
Telephone usage		
Cell phone		
Yes	14130	93.90
No	779	5.18
Don't know	9	0.06
Refused	130	0.86
Landline		
Yes	6594	43.82
No	8088	53.75
Don't know	40	0.27
Refused	326	2.17

Abbreviations: USD, United States Dollars; FEMA, Federal Emergency Management Agency.

Supplementary Table S2. Top 40 importance features disaggregated by primary groups of interest using appended data from the 2018, 2019 and 2020 National Household Surveys [54].

Variable Description	Answer	Category	Importance Ranking by Group			
			Age 65+ and Black Racial Identity	Black Racial Identity	Age 65+	Total Sample
"Does your plan include information about how to leave your community for an evacuation?"	No plan	EMERGENCY PLANS	1	1	1	1
"Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?"	Yes	EMERGENCY PLANS	2	2	2	2
"Which of the following best represents your (perceived level of) preparedness?"	Been prepared for more than 1 year	STAGES OF PREPAREDNESS	3	3	3	3
"How recently have you talked with others in your community about getting prepared for a disaster?"	I have not done this	INFORMATION SEEKING	4	9	5	8
"Can you give me a ballpark figure for the amount you have set aside?"	No savings	FINANCIAL PREPAREDNESS	5	10	7	7
"How recently have you talked with others in your community about getting prepared for a disaster?"	Within the past year	INFORMATION SEEKING	6	16	8	14

"How many days do you think you could last in your home without power, running water, or transportation?"	No supplies	SUPPLIES	7	6	6	4
Which of the following best represents your (perceived level of) preparedness?	I am not prepared, but I intend to get prepared in the next six months	STAGES OF PREPAREDNESS	8	7	16	10
How recently have you sought information about preparedness?	Within the past year	INFORMATION SEEKING	9	8	11	9
"How recently have you sought information about preparedness?"	I have not done this	INFORMATION SEEKING	10	4	4	6
"In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?"	Yes	EMERGENCY PLANS	11	24	-	29
"Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?"	No	FINANCIAL PREPAREDNESS	12	18	34	26
"How confident are you that you can take the steps to prepare for a disaster in your area?"	Extremely confident	EFFICACY - SELF-CONFIDENCE	13	-	18	13

"Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?"	Yes	FINANCIAL PREPAREDNESS	14	17	32	22
After receiving the information about how to get better prepared, did you take any steps to prepare for a disaster?	Participant did not answer	CORE - INFORMATION	15	26	-	-
"In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?"	No	CORE - INFORMATION	16	15	20	31
Is there a reason you think you would not be able to take the steps to prepare?	Participant did not answer	EFFICACY - SELF-CONFIDENCE	17	-	19	21
"Can you give me a ballpark figure for the amount you have set aside?"	Refused	FINANCIAL PREPAREDNESS	18	29	36	38
"Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?"	No plan	EMERGENCY PLANS	19	14	9	12
"In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?"	No	DRILLS FOR ALL RESPONDENTS	20	22	17	16

How did you get the information that you read, saw, or heard about getting better prepared for a disaster?	Participant did not answer	CORE - INFORMATION	21	25	22	30
"How did you get the information that you read, saw, or heard about getting better prepared for a disaster?"	TV, TV news, weather channels	STAGES OF PREPAREDNESS	22	-	-	-
"In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?"	No	EMERGENCY PLANS	23	38	30	24
"Have you or your family ever experienced the impacts of a disaster?"	Yes	DISASTER EXPERIENCE	24	-	24	-
"In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?"	Yes	CORE - INFORMATION	25	19	37	33

Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	I have been prepared for more than a year and I continue preparing	STAGES OF PREPAREDNESS	26	22	-	-
Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	I have been prepared for the last year	STAGES OF PREPAREDNESS	27	5	10	5
"In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At work?"	No	DRILLS FOR ALL RESPONDENTS	28	13	23	20

"All areas of the country are subject to different types of disasters. Will you please name the types of disasters that would have the biggest impact where you live?"	Tornado	RISK IDENTIFICATION	29	-	-	-
"How confident are you that you can take the steps to prepare for a disaster in your area?"	Not at all confident	EFFICACY - SELF-CONFIDENCE	30	39	-	-
What motivated you to take these steps to become better prepared? Please tell me the main reason.	Participant did not answer	STAGES OF PREPAREDNESS	31	-	-	-
"In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?"	Yes	DRILLS FOR ALL RESPONDENTS	32	29	15	19
"Do you have a disability or a health condition that might affect your capacity to respond to an emergency situation? (INTERVIEWER: IF NECESSARY, READ:) A mobility, hearing, vision, cognitive, or intellectual disability or physical, mental, or health condition.)"	Yes	DEMOGRAPHICS	33	30	-	-

Which of the following best represents your (perceived level of) preparedness?	I am not prepared, but I intend to start preparing in the next year	STAGES OF PREPAREDNESS	34	12	33	18
Which of the following best represents your (perceived level of) preparedness?	I am not prepared, and I do not intend to prepare in the next year	STAGES OF PREPAREDNESS	35	-	21	30
"When did you or your family experience a disaster?"	No experience	DISASTER EXPERIENCE	36	-	-	-
"How much would taking steps to prepare, such as creating a household emergency plan, developing an evacuation and shelter plan, signing up for alerts and warning systems, or stocking up on supplies help you get through a disaster in your area?"	Somewhat	STAGES OF PREPAREDNESS	37	-	-	-

Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	I am not prepared, but I intend to get prepared in the next six months	STAGES OF PREPAREDNESS	38	-	-	-
"What was the information that you read, saw, or heard about how to get better prepared for a disaster?"	No information	STAGES OF PREPAREDNESS	39	23	28	-
"All areas of the country are subject to different types of disasters. Will you please name the types of disasters that would have the biggest impact where you live?"	A major snowstorm	RISK IDENTIFICATION	40	-	-	-

Footnote: Importance features are numbered by most important to less important, 1 - 40. A dash indicates the variable was not included in a particular group's top 40 importance features. The background shading indicates the ranking of importance features from most to least important (green to red).

Supplementary Table S3. Top 40 importance features for 65 Years and Older and Black Racial Identity using appended data from the 2018, 2019 and 2020 National Household Surveys [54].

Importance Feature Rank	Variable for 65 Years and Older and Black Racial Identity	Variable Description	X.IncMSE	IncNodePurity
1	b6_1_	Does your plan include information about how to leave your community for an evacuation?	0.014329438	2.432309016
2	b6_1_YES	Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?	0.012119855	1.961971329
3	st_stg1_I.HAVE.BEEN.PREPARED.FOR.MORE	Which of the following best represents your (perceived level of) preparedness?	0.002491092	0.564541965
4	b2b_I.HAVE.NOT.DONE.THIS	How recently have you talked with others in your community about getting prepared for a disaster?	0.001945243	0.366684511
5	fp4_1_	Can you give me a ballpark figure for the amount you have set aside?	0.001274035	0.230091212
6	b2b_WITHIN.THE.PAST.YEAR	How recently have you talked with others in your community about getting prepared for a disaster?	0.001218232	0.323881563
7	b10	How many days do you think you could last in your home without power, running water, or transportation?	0.001194423	0.359234314
8	st_stg1_I.AM.NOT.PREPARED..BUT.I.INTEND.TO.GET	Which of the following best represents your (perceived level of) preparedness?	0.000814904	0.171036438
9	b2c_WITHIN.THE.PAST.YEAR	How recently have you sought information about preparedness?	0.000749693	0.326522056

10	b2c_I.HAVE.NOT.DONE. THIS	How recently have you sought information about preparedness?	0.000736454	0.386149393
11	b6a_YES	In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?	0.000454245	0.100502724
12	fp2_NO	Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?	0.000439624	0.136991809
13	c2_EXTREMELY.CONFI DENT	How confident are you that you can take the steps to prepare for a disaster in your area?	0.000414527	0.078636871
14	fp2_YES	Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?	0.000407221	0.093234709
15	a2b_	After receiving the information about how to get better prepared, did you take any steps to prepare for a disaster?	0.000399129	0.135750058
16	a1_NO	In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?	0.000397055	0.106633887
17	c2a_	Is there a reason you think you would not be able to take the steps to prepare?	0.000352556	0.096210618
18	fp4_1_REFUSED	Can you give me a ballpark figure for the amount you have set aside?	0.000327386	0.090551415
19	b6_1_NO	Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?	0.000303314	0.118268234
20	b3d_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?	0.00028385	0.06277185

21	a1a_orig201_	How did you get the information that you read, saw, or heard about getting better prepared for a disaster?	0.000276716	0.083573853
22	a1a_orig201_TV..TV.NE WS..WEATHER.CHANNE LS	How did you get the information that you read, saw, or heard about getting better prepared for a disaster?	0.000264782	0.054280841
23	b6a_NO	In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?	0.000254527	0.068826839
24	genexp1_YES	Have you or your family ever experienced the impacts of a disaster?	0.000224392	0.056588231
25	a1_YES	In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?	0.000222214	0.096703329
26	hz_stg1_I.HAVE.BEEN.P REPARED.FOR.MORE	Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	0.000210247	0.054308821
27	st_stg1_I.HAVE.BEEN.PR EPARED.FOR.THE.LAST .YEAR	Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	0.000193937	0.083559999
28	b3b_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At work?	0.000190513	0.079868873
29	b101_A.TORNADO	All areas of the country are subject to different types of disasters. Will you please name the types of disasters that would have the biggest impact where you live?	0.000182762	0.108550993
30	c2_NOT.AT.ALL.CONFID ENT	How confident are you that you can take the steps to prepare for a disaster in your area? Would you say you are...	0.000177868	0.043192359

31	a1dcode_	What motivated you to take these steps to become better prepared? Please tell me the main reason.	0.000175014	0.058457287
32	b3d_YES	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?	0.000155029	0.069032167
33	d4a_YES	Do you have a disability or a health condition that might affect your capacity to respond to an emergency situation? (INTERVIEWER: IF NECESSARY, READ:) A mobility, hearing, vision, cognitive, or intellectual disability or physical, mental, or health condition.)	0.000144438	0.079222669
34	st_stg1_I.AM.NOT.PREPARED..BUT.I.INTEND.TO.ST	Which of the following best represents your (perceived level of) preparedness?	0.000143942	0.055080695
35	st_stg1_I.AM.NOT.PREPARED..AND.I.DO.NOT	Which of the following best represents your (perceived level of) preparedness?	0.000142557	0.06823186
36	genexp12_cat_	When did you or your family experience a disaster? How much would taking steps to prepare, such as creating a household emergency plan, developing an evacuation and shelter plan, signing up for alerts and warning systems, or stocking up on supplies help you get through a disaster in your area? Would it help	0.000134949	0.044472379
37	c1_SOMEWHAT	Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	0.00012865	0.076670593
38	hz_stg1_I.AM.NOT.PREPARED..BUT.I.INTEND.TO.GE		0.00010996	0.031844319
39	a1a_orig101_	What was the information that you read, saw, or heard about how to get better prepared for a disaster?	0.00010408	0.064222635
40	b101_A.MAJOR.SNOWS.TORM	All areas of the country are subject to different types of disasters. Will you please name the types of disasters that would have the biggest impact where you live?	0.000102021	0.033420088

Supplementary Table S4. Top 40 importance features for Black Racial Identity using appended data from the 2018, 2019 and 2020 National Household Surveys [54].

Importance Feature Rank	Variable for Black Racial Identity	Variable Description	X.IncMSE	IncNodePurity
1	b6_1_	Does your plan include information about how to leave your community for an evacuation?	0.015537012	12.38820039
2	b6_1_YES	Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?	0.010056289	9.013570339
3	st_stg1_I.HAVE.BEE N.PREPARED.FOR. MORE	Which of the following best represents your (perceived level of) preparedness?	0.005095154	3.420727261
4	b2c_I.HAVE.NOT.DO NE.THIS	How recently have you sought information about preparedness?	0.00159505	2.269248656
5	st_stg1_I.HAVE.BEE N.PREPARED.FOR.T HE.LAST.YEAR	Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	0.001282471	0.969962526
6	b10	How many days do you think you could last in your home without power, running water, or transportation?	0.001172069	1.30146007
7	st_stg1_I.AM.NOT.PR EPARED..BUT.I.INTEN D.TO.GE	Which of the following best represents your (perceived level of) preparedness?	0.000976308	0.66425605

8	b2c_WITHIN.THE.PAS T.YEAR	How recently have you sought information about preparedness?	0.000846639	1.110468104
9	b2b_I.HAVE.NOT.DON E.THIS	How recently have you talked with others in your community about getting prepared for a disaster?	0.000824237	0.903501979
10	fp4_1_	How recently have you talked with others in your community about getting prepared for a disaster?	0.000673229	0.455127463
11	b3b_YES	Can you give me a ballpark figure for the amount you have set aside?	0.00060631	0.462409374
12	st_stg1_I.AM.NOT.PR EPARED..BUT.I.INTEN D.TO.ST	Which of the following best represents your (perceived level of) preparedness?	0.000550973	0.34540015
13	b3b_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At work?	0.000502227	0.456670658
14	b6_1_NO	Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?	0.000433802	0.550972062
15	a1_NO	In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?	0.000370463	0.369724993
16	b2b_WITHIN.THE.PAS T.YEAR	How recently have you talked with others in your community about getting prepared for a disaster?	0.000332268	0.422733187
17	fp2_YES	Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?	0.000327096	0.400219008
18	fp2_NO	Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?	0.000266017	0.264669771

19	a1_YES	In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?	0.000236728	0.554126054
20	d8_OWN	Do you rent or own your home?	0.000220788	0.34591855
21	b3d_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location? Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	0.000211931	0.217404088
22	hz_stg1_I.HAVE.BEEN .PREPARED.FOR.MO RE		0.000204656	0.151260815
23	a1a_orig101_	What was the information that you read, saw, or heard about how to get better prepared for a disaster?	0.00019868	0.351854178
24	b6a_YES	In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?	0.000174266	0.223773912
25	a1a_orig201_	How did you get the information that you read, saw, or heard about getting better prepared for a disaster?	0.000158448	0.386013755
26	a2b_	After receiving the information about how to get better prepared, did you take any steps to prepare for a disaster?	0.000155652	0.3672497
27	a2b_YES	After receiving the information about how to get better prepared, did you take any steps to prepare for a disaster?	0.00013695	0.293471783
28	fp4_1_REFUSED	Can you give me a ballpark figure for the amount you have set aside?	0.000120627	0.123772278

29	b3d_YES	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?	0.000119734	0.143672532
30	d4a_YES	Do you have a disability or a health condition that might affect your capacity to respond to an emergency situation? (INTERVIEWER: IF NECESSARY, READ:) A mobility, hearing, vision, cognitive, or intellectual disability or physical, mental, or health condition.)	0.000101654	0.154122375
31	d12_	Of all the telephone calls your household receives, would you say that...	9.70E-05	0.15034018
32	d4a_NO	Do you have a disability or a health condition that might affect your capacity to respond to an emergency situation?	9.68E-05	0.184665449
33	a1a_orig102_	What was the information that you read, saw, or heard about how to get better prepared for a disaster? (2nd response of up to 2)	9.31E-05	0.091245763
34	d2_POST.GRADUATE. WORK.OR.DEGREE	What is your highest completed level of education?	9.06E-05	0.142991207
35	b10_3_YES	Do you have supplies to stay for 24 hours at any other place you frequent?	8.51E-05	0.088726913
36	b3c_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At school?	8.26E-05	0.137128628
37	d8_RENT	Do you rent or own your home?	7.64E-05	0.220243419
38	b6a_NO	In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?	7.53E-05	0.208612461

39	c2_NOT.AT.ALL.CONF IDENT	How confident are you that you can take the steps to prepare for a disaster in your area? Would you say you are...	7.41E-05	0.102301228
40	genexp1_NO	Have you or your family ever experienced the impacts of a disaster?	7.40E-05	0.109840905

Supplementary Table S5. Top 40 importance features for 65 years and older using appended data from the 2018, 2019 and 2020 National Household Surveys [54].

Importance Feature Rank	Variable for 65 Years and Older	Variable Description	X.IncMSE	IncNodePurity
1	b6_1_	Does your plan include information about how to leave your community for an evacuation?	0.013248756	29.66588376
2	b6_1_YES	Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?	0.006230234	16.48670121
3	st_stg1_I.HAVE.BEEN.P REPAIRED.FOR.MORE	Which of the following best represents your (perceived level of) preparedness?	0.003214382	9.733042803
4	b2c_I.HAVE.NOT.DONE .THIS	How recently have you sought information about preparedness?	0.001220138	4.84434617
5	b2b_I.HAVE.NOT.DONE .THIS	How recently have you talked with others in your community about getting prepared for a disaster?	0.001078267	4.442502956
6	b10	How many days do you think you could last in your home without power, running water, or transportation?	0.001048985	3.420407207

7	fp4_1_	Can you give me a ballpark figure for the amount you have set aside?	0.000805563	1.645920884
8	b2b_WITHIN.THE.PAST .YEAR	How recently have you talked with others in your community about getting prepared for a disaster?	0.000716656	2.9591149
9	b6_1_NO	Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?	0.000544714	1.645149644
10	st_stg1_I.HAVE.BEEN.P REPAIRED.FOR.THE.LA ST.YEAR	Thinking about preparing yourself for a disaster, have you developed and discussed an action plan with your family, that includes information about how to leave your community or where to shelter, and have set aside supplies such as, food, water, and other essentials that allow you to be self-sufficient for at least three days?	0.000532435	1.517311705
11	b2c_WITHIN.THE.PAST .YEAR	How recently have you sought information about preparedness?	0.000509239	2.060664747
12	d8_RENT	Do you rent or own your home?	0.000489978	1.676487067
13	d8_OWEN	Do you rent or own your home?	0.000380223	1.496146224
14	a2b_YES	After receiving the information about how to get better prepared, did you take any steps to prepare for a disaster?	0.000341621	1.5922901
15	b3d_YES	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?	0.000288788	0.706061896
16	st_stg1_I.AM.NOT.PRE PARED..BUT.I.INTEND. TO.GE	Which of the following best represents your (perceived level of) preparedness?	0.000288495	0.606678878

17	b3d_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?	0.000260258	0.676830324
18	c2_EXTREMELY.CONFIDENT	How confident are you that you can take the steps to prepare for a disaster in your area?	0.000182186	0.779207871
19	c2a_	Is there a reason you think you would not be able to take the steps to prepare?	0.000167038	0.552462946
20	a1_NO	In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?	0.000163696	0.562308401
21	st_stg1_I.AM.NOT.PREPARED..AND.I.DO.NOT	Which of the following best represents your (perceived level of) preparedness?	0.000120565	0.267402564
22	a1a_orig201_	How did you get the information that you read, saw, or heard about getting better prepared for a disaster?	0.000112047	0.437967556
23	b3b_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At work?	9.86E-05	0.503816592
24	genexp1_YES	Have you or your family ever experienced the impacts of a disaster?	9.67E-05	0.254231734
25	d13_.1.000.TO..1.999	What is your total MONTHLY household income, before taxes? Please include income from wages and salaries, remittances from family members living elsewhere, farming, and all other sources.	9.45E-05	0.43095859
26	d3_YES	What is your total MONTHLY household income, before taxes? Please include income from wages and salaries, remittances from family members living elsewhere, farming, and all other sources.	9.45E-05	0.527183891

27	d15_YES	Is English the primary or main language spoken among those living in your household?	9.38E-05	0.338274784
28	a1a_orig101_	What was the information that you read, saw, or heard about how to get better prepared for a disaster?	9.26E-05	0.395361093
29	d11_NO	Do you have a cell phone that you use to make and receive personal calls?	9.08E-05	0.421546184
30	b6a_NO	In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?	8.98E-05	0.55239174
31	d15_NO	Is English the primary or main language spoken among those living in your household?	8.82E-05	0.328019236
32	fp2_YES	Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?	8.73E-05	0.378851867
33	st_stg1_I.AM.NOT.PRE PARED..BUT.I.INTEND. TO.ST	Which of the following best represents your (perceived level of) preparedness?	8.62E-05	0.356070063
34	fp2_NO	Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?	7.69E-05	0.376814452
35	d2_LESS.THAN.HIGH.S CHOOL.DIPLOMA	What is your highest completed level of education?	7.68E-05	0.470853045
36	fp4_1_REFUSED	Can you give me a ballpark figure for the amount you have set aside?	7.60E-05	0.375316859
37	a1_YES	In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?	7.49E-05	0.489668742

38	b3b_YES	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At work?	7.47E-05	0.385918723
39	white_only	Describe your race. What is your total MONTHLY household income, before taxes? Please include income from wages and salaries, remittances from family members living elsewhere, farming, and all other sources.	7.24E-05	0.554590291
40	d13_.500.TO..999		6.96E-05	0.408834697

Supplementary Table S6. Top 40 importance features for total sample using appended data from the 2018, 2019 and 2020 National Household Surveys [54].

Importance Feature Rank	Variable for Total Sample	Variable Description	X.IncMSE	IncNodePurity
1	b6_1_	Does your plan include information about how to leave your community for an evacuation?	0.013085328	111.2465689
2	b6_1_YES	Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?	0.005638424	64.88549302
3	st_stg1_I.HAVE.BEE N.PREPARED.FOR.M ORE	Which of the following best represents your (perceived level of) preparedness?	0.005592052	46.27837258
4	b10	How many days do you think you could last in your home without power, running water, or transportation?	0.001700082	14.51498766

5	st_stg1_I.HAVE.BEE N.PREPARED.FOR.T HE.LAST.YEAR	Which of the following best represents your (perceived level of) preparedness?	0.001621637	11.16030869
6	b2c_I.HAVE.NOT.DO NE.THIS	How recently have you sought information about preparedness?	0.001111868	17.47013338
7	fp4_1_	Can you give me a ballpark figure for the amount you have set aside?	0.000898553	5.775548754
8	b2b_I.HAVE.NOT.DO NE.THIS	How recently have you talked with others in your community about getting prepared for a disaster?	0.00088133	14.54051772
9	b2c_WITHIN.THE.PA ST.YEAR	How recently have you sought information about preparedness?	0.000646657	7.421689142
10	st_stg1_I.AM.NOT.PR EPARED..BUT.I.INTE ND.TO.GE	Which of the following best represents your (perceived level of) preparedness?	0.000642929	4.276641999
11	d8_OWN	Do you rent or own your home?	0.000642021	7.497732906
12	b6_1_NO	Does your plan include information about where to shelter or a safe place you can stay in the event of a disaster?	0.000503619	5.114550837
13	c2_EXTREMELY.CO NFIDENT	How confident are you that you can take the steps to prepare for a disaster in your area?	0.000396384	3.621858808
14	b2b_WITHIN.THE.PA ST.YEAR	How recently have you talked with others in your community about getting prepared for a disaster?	0.000394878	6.301341763
15	a2b_YES	After receiving the information about how to get better prepared, did you take any steps to prepare for a disaster?	0.000322898	3.676677031

16	b3d_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?	0.000315951	2.735221287
17	d8_RENT	Do you rent or own your home?	0.000288729	3.563784429
18	st_stg1_I.AM.NOT.PREPARED..BUT.I.INTEND.TO.ST	Which of the following best represents your (perceived level of) preparedness?	0.0002556	1.802560224
19	b3d_YES	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At another community location?	0.000231276	2.217080092
20	b3b_NO	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At work?	0.000205256	2.219402793
21	c2a_	Is there a reason you think you would not be able to take the steps to prepare?	0.000199315	2.3486113
22	fp2_YES	Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?	0.000193921	1.698002543
23	d3_YES		0.000174255	1.90190422
24	b6a_NO	In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?	0.000145538	2.325690293
25	b3b_YES	In the past year, have you practiced what to do in a disaster by participating in a disaster preparedness exercise or drill? At work?	0.000145091	1.726271459
26	fp2_NO	Do you have a flood insurance policy from the National Flood Insurance Program or from a private insurance company?	0.000120436	1.475069881

27	d3_NO	Are you of Hispanic, Latino, or Spanish origin - such as Mexican, Puerto Rican, Cuban, or other Spanish origin?	0.000114981	1.483470179
28	d2_LESS.THAN.HIGH .SCHOOL.DIPLOMA	What is your highest completed level of education?	0.000112383	1.614758361
29	b6a_YES	In the event of a disaster that required you to leave your area, would you need to rely on public transportation or the local authorities for transportation in order to leave?	0.000110096	1.761719307
30	st_stg1_I.AM.NOT.PR EPARED..AND.I.DO. NOT	Which of the following best represents your (perceived level of) preparedness?	0.000102038	0.855599747
31	a1_NO	In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?	8.83E-05	1.046483147
32	d15_NO	Is English the primary or main language spoken among those living in your household?	7.68E-05	1.085714035
33	a1_YES	In the past six months, have you read, seen, or heard any information about how to get better prepared for a disaster?	7.42E-05	1.9074137
34	d15_YES	Is English the primary or main language spoken among those living in your household?	7.33E-05	1.217786404
35	white_only	Describe your race.	7.29E-05	1.335957195
36	qns7_MALE	What is your sex or gender?	7.12E-05	1.152331741
37	d13_.500.TO..999	What is your total MONTHLY household income, before taxes? Please include income from wages and salaries, remittances from family members living elsewhere, farming, and all other sources.	6.95E-05	1.185767829

38	fp4_1_REFUSED	Can you give me a ballpark figure for the amount you have set aside?	6.72E-05	0.928492335
39	qnc7_FEMALE	What is your sex or gender?	6.37E-05	1.089689806
40	a1a_orig201_	How did you get the information that you read, saw, or heard about getting better prepared for a disaster?	6.13E-05	1.08664111