

# RESIDENT ATTITUDE STUDY

## Excerpt on Housing

Prepared for:  
Grassroot Institute of Hawai'i

Submitted by Anthology Marketing Group  
September 2021

[ANTHOLOGY®]

## METHODOLOGY

The Grassroot Institute of Hawai'i has contracted Anthology Research to conduct a quantitative mixed-mode study of adult residents of Hawaii. The results of the survey are intended to guide the organization's efforts in advocacy and outreach, as well as serve as a baseline for tracking progress in brand regard and community support on initiatives it considers important.

The sample for this mixed-mode survey was compiled from three sources: The sample for the Internet-based portion of the study was purchased from third party online sample providers, augmented by purchased Voter Contact Lists and Anthology's proprietary panel of Hawaii residents. The sample used to generate the telephone surveys was derived using Anthology's proprietary Random Digit Dialing software and Voter Contact Lists; both mobile and landline numbers were called.

The study began on August 16 and ended September 7, 2021. A total of n=933 completed surveys were collected during this period, stratified by island as follows. The margin of error for an overall sample of this size is +/- 3.21 percentage points with a 95% confidence level. Due to the disproportionate sampling plan, the overall data were weighted to reflect populations estimates of adults 18+ by ethnicity.

- O'ahu: n=455
- B.I.: n= 202
- Maui County: n=167
- Kauai: n=109

The questionnaire used in this study was developed by Anthology Research with input and approval from the client. The questionnaire is located in the appendix of this report.

(Note: The research design for this study, including the questionnaire developed for this project, are proprietary and should be considered the property of Anthology Research.)

**RESIDENT ATTITUDE STUDY**

**Do you think the cost of housing in Hawaii is too expensive?:**

		TOTAL	POLITICAL PARTY					REG VOTER		CORE VOTER	POLITICALLY ACTIVE		HGI AIDED AWARE		HGI PERCEPTION		AREA		COUNTY		
		-	Dem	Indep	Rep	Libertarian	Other	Yes	No	-	Yes	No	Yes	No	Favor	Unfavor	Oahu	N.I.	Oahu	B.I.	Maui
		(A)	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(C)	
Q9	Yes	97%	97% D	97% D	98% D	83%	99% D	97%	96%	98%	96%	98%	96%	98% A	96%	94%	98% B	94%	98% B	89%	99% B
	No	3%	3%	3%	2%	17% A B C E	1%	3%	4%	2%	4%	2%	4% B	2%	4%	6%	2%	6% A	2%	11% A C	1%
	Total	933	472	205	161	27	68	804	129	418	267	666	498	435	254	92	656	277	656	126	105
	Count	933	478	200	159	37	59	791	142	383	307	626	523	410	286	90	455	478	455	202	167

**RESIDENT ATTITUDE STUDY**

**Do you think the cost of housing in Hawaii is too expensive?:**

		COUNTY	GENDER		HOUSEHOLD INCOME			ETHNICITY					AGE				HAWAII RESIDENT		PRIMARY RESIDENCE		
		Kauai	Male	Female	<\$50K	\$50K-\$100K	\$100K+	Caucasian	Japanese	Hawaiian	Filipino	Other	18-34	35-49	50-64	65+	Born & Raised	Transplant	Own	Rent	Rent free
		(D)	(A)	(B)	(A)	(B)	(C)	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(C)	(D)	(A)	(B)	(A)	(B)	(C)
Q9	Yes	98%	97%	97%	98%	99% C	94%	95%	98%	99%	98%	96%	99%	96%	97%	97%	97%	98%	95%	100% A C	97%
	No	2%	3%	3%	2%	1%	6% B	5%	2%	1%	2%	4%	1%	4%	3%	3%	3%	2%	5% B	0%	3% B
	Total	46	390	533	239	333	296	268	263	174	116	93	227	287	240	179	583	350	506	340	87
	Count	109	398	525	242	313	310	378	197	145	46	137	201	303	239	190	537	396	534	327	72

**RESIDENT ATTITUDE STUDY**

**Do you think the cost of housing in Hawaii is too expensive?:**

		UNION HSE		COLLEGE GRADUATE		EMPLOYED		OAHU AREA						BIG ISLAND		PUBLIC SECTOR HSE	
		Yes	No	Yes	No	Full/Part	No	Metro HNL	East HNL	Windward	North Shore	Central	West	Kona	Hilo	Yes	No
		(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(C)	(D)	(E)	(F)	(A)	(B)	(A)	(B)
Q9	Yes	98%	97%	96%	98% A	97%	97%	97%	98%	100% <sup>1</sup>	100% <sup>1</sup>	99%	99%	79%	96% A	98%	96%
	No	2%	3%	4% B	2%	3%	3%	3%	2%	<sup>1</sup>	<sup>1</sup>	1%	1%	21% B	4%	2%	4%
	Total	276	657	526	405	615	318	236	89	74	10	121	127	53	73	309	624
	Count	241	692	534	397	607	326	169	63	50	7	84	82	115	87	274	659

(09/21) \* Prepared by Anthology Research <sup>2,3,4</sup>

1. This category is not used in comparisons because its column proportion is equal to zero or one.
2. Results are based on two-sided tests. For each significant pair, the key of the category with the smaller column proportion appears in the category with the larger column proportion.  
Significance level for upper case letters (A, B, C): .05
3. Tests are adjusted for all pairwise comparisons within a row of each innermost subtable using the Bonferroni correction.
4. Cell counts of some categories are not integers. They were rounded to the nearest integers before performing column proportions tests.

RESIDENT ATTITUDE STUDY

Q9A What in your opinion, contributes to the high cost of housing in Hawaii?:

		TOTAL	POLITICAL PARTY					REG VOTER		CORE VOTER	POLITICALLY ACTIVE		HGI AIDED AWARE		HGI PERCEPTION		AREA		COUNTY	
		-	Dem	Indep	Rep	Libertarian	Other	Yes	No	-	Yes	No	Yes	No	Favor	Unfavor	Oahu	N.I.	Oahu	B.I.
		(A)	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(A)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)
Q9A	Out-of-state investors driving up prices	82%	83%	81%	80%	76%	88%	84% B	71%	84%	84%	82%	82%	83%	78%	81%	82%	83%	82%	77%
	High cost of building materials	57%	57%	59%	50%	76%	62%	58%	51%	62%	55%	58%	57%	57%	56%	54%	52%	69% A	52%	77% A
	Low housing inventory	51%	52%	46%	48%	64%	56%	54% B	32%	58%	53%	50%	48%	54%	47%	46%	50%	51%	50%	53%
	High cost of skilled labor	35%	33%	42%	33%	49%	29%	36%	31%	37%	30%	38% A	34%	37%	30%	24%	36%	35%	36%	39%
	Not enough land zoned for residential housing	35%	37%	37%	33%	18%	25%	34%	39%	35%	35%	35%	36%	34%	34%	37%	38% B	28%	38%	28%
	98	2%	2%	1%	2%	1	3%	2%	1%	2%	3%	1%	2%	1%	1%	6% A	2%	2%	2%	1%
	Government	2%	1%	3%	1	2%	1%	1%	2%	2%	2%	1%	2%	1%	4%	1	2%	1%	2%	1
	Vacation/Short term/Illegal rentals	2%	1%	2%	1%	1	3%	2%	1	2%	1%	2%	1%	2% A	1%	1	2%	1%	2%	0%
	Greed	1%	1%	2%	1	2%	0%	1%	1%	0%	1%	1%	1%	1%	1%	1	1%	1%	1%	2%
	Corruption	1%	0%	2%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1	2%	1%	1%	1%	0%
	Taxes	1%	0%	0%	1%	1	3%	1%	1	0%	1%	0%	1%	1%	1%	1	1%	0%	1%	0%
	Location	1%	1%	1	1	1	1	1%	1	1%	0%	1%	1%	0%	1%	3%	1%	1%	1%	1
	Low wages	0%	0%	1	1%	1	2%	0%	1	0%	1%	0%	0%	1%	1	1	0%	1%	0%	1%
	All/Combination of the above factors	0%	1	1	1	11% E	1%	0%	1	1	1	1%	1	1	1	1	1%	1	1%	1
	High rent/Lack of affordable rent	0%	0%	0%	0%	1	1	0%	1	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1
	99	0%	1	0%	1	1	1	0%	1	1	1	0%	1	0%	1	1	1	0%	1	1%
	Total	882	450	192	153	30	57	754	128	365	281	601	484	398	260	80	447	435	447	166

RESIDENT ATTITUDE STUDY

Q9A What in your opinion, contributes to the high cost of housing in Hawaii?:

		COUNTY		GENDER		HOUSEHOLD INCOME			ETHNICITY					AGE				HAWAII RESIDENT		
		Maui	Kauai	Male	Female	<\$50K	\$50K-\$100K	\$100K+	Caucasian	Japanese	Hawaiian	Filipino	Other	18-34	35-49	50-64	65+	Born & Raised	Transplant	
		(C)	(D)	(A)	(B)	(A)	(B)	(C)	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(C)	(D)	(A)	(B)	
Q9A	Out-of-state investors driving up prices	86%	91%	80%	84%	80%	86%	80%	80%	84%	90% D E	77%	76%	80%	79%	83%	89% B	83%	82%	
	High cost of building materials	62%	62%	54%	59%	56%	55%	58%	47%	66% A	55%	64% A	54%	50%	52%	59%	72% A B	63% B	47%	
	Low housing inventory	49%	53%	54%	49%	40%	47%	62% A B	51% C	60% C	37%	49%	52%	41%	46%	57% A	61% A B	51%	50%	
	High cost of skilled labor	30%	38%	35%	36%	39%	34%	33%	24%	46% A	35%	38% A	36%	37%	27%	34%	48% B C	41% B	27%	
	Not enough land zoned for residential housing	28%	30%	38%	33%	34%	36%	34%	28%	43% A	38%	29%	36%	49% B C D	33%	30%	27%	38% B	31%	
	98	4%	1	3% B	1%	1%	1%	3%	2%	2%	2%	1	3%	0%	2%	2%	2%	2%	2%	2%
	Government	2%	4%	2%	1%	2%	1%	1%	2%	1%	3%	1	2%	2%	2%	0%	3%	1%	2%	
	Vacation/Short term/Illegal rentals	1%	0%	2%	1%	1%	3%	1%	3%	1%	1	2%	0%	2%	1%	1%	2%	1%	3% A	
	Greed	1%	0%	1	2%	1%	1%	1%	2%	1	1%	1	2%	0%	2%	1%	1%	1%	1%	
	Corruption	1	3%	2% B	0%	1%	0%	1%	1%	1%	1%	1	1%	1	1%	2%	1%	1%	1%	
	Taxes	1	1	1%	1	0%	1%	1%	1%	1	2%	1	1	2%	1%	1	1	1%	1%	
	Location	1%	1	1%	0%	1%	0%	0%	1	2%	1	1	1%	1	1%	1%	0%	1%	1	
	Low wages	1%	1	0%	0%	1%	1	1%	0%	1	2%	1	1	1%	1	0%	0%	1%	0%	
	All/Combination of the above factors	1	1	0%	0%	1%	1	1	1	1	1	2%	1	1%	0%	1	1	0%	0%	
	High rent/Lack of affordable rent	1	1%	0%	0%	1	0%	0%	0%	1	1	1	1%	1	0%	1	0%	0%	0%	
	99	1	1	0%	1	0%	1	1	1	1	1	1	1%	1	1	0%	1	1	0%	
	Total	164	105	377	495	234	306	277	341	193	141	45	132	197	279	223	183	501	381	

RESIDENT ATTITUDE STUDY

Q9A What in your opinion, contributes to the high cost of housing in Hawaii?:

	PRIMARY RESIDENCE			UNION HSE		COLLEGE GRADUATE		EMPLOYED		OAHU AREA						BIG ISLAND		PUBLIC SECTOR	
	Own	Rent	Rent free	Yes	No	Yes	No	Full/Part	No	Metro HNL	East HNL	Windward	North Shore	Central	West	Kona	Hilo	Yes	
	(A)	(B)	(C)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(C)	(D)	(E)	(F)	(A)	(B)	(A)	
Q9A	Out-of-state investors driving up prices	79%	87% A	82%	89% B	80%	84%	81%	82%	82%	85% F	83%	89% F	92%	83%	71%	66%	83% A	84%
	High cost of building materials	64% B	47%	60%	60%	56%	60%	54%	53%	66% A	51%	56%	59%	50%	53%	49%	63%	85% A	55%
	Low housing inventory	59% B C	41%	42%	51%	50%	60% B	39%	52%	49%	54%	49%	54%	34%	55%	39%	48%	56%	52%
	High cost of skilled labor	37%	32%	37%	33%	37%	34%	37%	31%	44% A	34%	29%	49%	17%	39%	33%	29%	45%	30%
	Not enough land zoned for residential housing	32%	38%	43%	33%	36%	35%	36%	38% B	30%	45%	34%	33%	17%	42%	29%	33%	24%	34%
	98	2%	2%	1%	2%	2%	2%	2%	2%	2%	3%	2%	1%	1	1%	1	1	1%	2%
	Government	1%	3% A	1	1%	2%	1%	2%	2%	1%	3%	1	2%	8%	1	1%	1	1	1%
	Vacation/Short term/Illegal rentals	1%	2%	3%	1%	2%	2%	1%	1%	2%	2%	1	5%	1	1	3%	1%	1	2%
	Greed	0%	2%	1%	1%	1%	1%	1%	1%	2% A	1%	1%	2%	1	1	1%	2%	1%	1%
	Corruption	1%	1%	1	1%	1%	1%	1%	1%	1%	1	1	3%	1	1%	1%	1%	1	1%
	Taxes	0%	1%	2%	1%	1%	0%	1%	1%	1%	1	1	1	1	3%	1%	1%	1	1
	Location	1%	0%	2%	1%	0%	0%	1%	1%	0%	1%	1	1	1	1	1%	1	1	2%
	Low wages	0%	0%	2% A	0%	0%	0%	0%	0%	1%	1	1	1	1	1	1%	1%	1%	0%
	All/Combination of the above factors	0%	1	3% A	1	1%	0%	1%	1%	1	1	1	1%	1	2%	1	1	1	1
	High rent/Lack of affordable rent	0%	1	1	0%	0%	0%	1	0%	0%	1	1	1	1	1	1%	1	1	0%
	99	0%	1	1	1	0%	1	0%	0%	1	1	1	1	1	1	1	1	1%	1
	Total	487	325	70	231	651	496	384	570	312	164	62	50	7	83	81	86	80	267

RESIDENT ATTITUDE STUDY

Q9A What in your opinion, contributes to the high cost of housing in Hawaii?:

		PUBLIC SECTOR ...
		No
		(B)
Q9A	Out-of-state investors driving up prices	82%
	High cost of building materials	58%
	Low housing inventory	50%
	High cost of skilled labor	38% A
	Not enough land zoned for residential housing	36%
	98	2%
	Government	2%
	Vacation/Short term/Illegal rentals	1%
	Greed	1%
	Corruption	1%
	Taxes	1%
	Location	1
	Low wages	0%
	All/Combination of the above factors	1%
	High rent/Lack of affordable rent	1
	99	0%
	Total	615

(09/21) \* Prepared by Anthology Research \*2,3,4

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2. Results are based on two-sided tests. For each significant pair, the key of the category with the smaller column proportion appears in the category with the larger column proportion. Significance level for upper case letters (A, B, C): .05
3. Tests are adjusted for all pairwise comparisons within a row of each innermost subtable using the Bonferroni correction.
4. Cell counts of some categories are not integers. They were rounded to the nearest integers before performing column proportions tests.

**RESIDENT ATTITUDE STUDY**

**In your opinion, does Hawaii need more housing for residents?:**

	TOTAL	POLITICAL PARTY					REG VOTER		CORE VOTER	POLITICALLY ACTIVE		HGI AIDED AWARE		HGI PERCEPTION		AREA		COUNTY		
	-	Dem	Indep	Rep	Libertarian	Other	Yes	No	-	Yes	No	Yes	No	Favor	Unfavor	Oahu	N.I.	Oahu	B.I.	Maui
	(A)	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(A)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(C)
Q10 Yes	87%	90% D	86%	85%	72%	82%	88%	83%	91%	90% B	86%	87%	87%	89%	87%	86%	89%	86%	91%	86%
No	13%	10%	14%	15%	28% A	18%	12%	17%	9%	10%	14% A	13%	13%	11%	13%	14%	11%	14%	9%	14%
Total	933	478	200	159	37	59	791	142	383	307	626	523	410	286	90	455	478	455	202	167

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**In your opinion, does Hawaii need more housing for residents?:**

	COUNTY	GENDER		HOUSEHOLD INCOME			ETHNICITY					AGE				HAWAII RESIDENT		PRIMARY RESIDENCE		
	Kauai	Male	Female	<\$50K	\$50K-\$100K	\$100K+	Caucasian	Japanese	Hawaiian	Filipino	Other	18-34	35-49	50-64	65+	Born & Raised	Transplant	Own	Rent	Rent free
	(D)	(A)	(B)	(A)	(B)	(C)	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(C)	(D)	(A)	(B)	(A)	(B)	(C)
Q10 Yes	89%	87%	87%	88%	88%	86%	86%	92%	87%	82%	83%	83%	84%	89%	93% A B	87%	87%	87% C	89% C	77%
No	11%	13%	13%	12%	12%	14%	14%	8%	13%	18%	17%	17% D	16% D	11%	7%	13%	13%	13%	11%	23% A B
Total	109	398	525	242	313	310	378	197	145	46	137	201	303	239	190	537	396	534	327	72

**RESIDENT ATTITUDE STUDY**

**In your opinion, does Hawaii need more housing for residents?:**

	UNION HSE		COLLEGE GRADUATE		EMPLOYED		OAHU AREA						BIG ISLAND		PUBLIC SECTOR HSE	
	Yes	No	Yes	No	Full/Part	No	Metro HNL	East HNL	Windward	North Shore	Central	West	Kona	Hilo	Yes	No
	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(C)	(D)	(E)	(F)	(A)	(B)	(A)	(B)
Q10 Yes	88%	87%	87%	87%	88%	86%	87%	88%	90%	92%	87%	80%	83%	96% A	86%	87%
No	12%	13%	13%	13%	12%	14%	13%	12%	10%	8%	13%	20%	17% B	4%	14%	13%
Total	241	692	534	397	607	326	169	63	50	7	84	82	115	87	274	659

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- Results are based on two-sided tests. For each significant pair, the key of the category with the smaller column proportion appears in the category with the larger column proportion. Significance level for upper case letters (A, B, C): .05
- Tests are adjusted for all pairwise comparisons within a row of each innermost subtable using the Bonferroni correction.
- Cell counts of some categories are not integers. They were rounded to the nearest integers before performing column proportions tests.



**RESIDENT ATTITUDE STUDY**

**Currently, about 5% of all land in Hawaii is allocated for urban and residential use. Would you support increasing that amount by maybe one or two-percentage points to 6% or 7%?:**

		TOTAL	POLITICAL PARTY					REG VOTER		CORE VOTER	POLITICALLY ACTIVE		HGI AIDED AWARE		HGI PERCEPTION		AREA		COUNTY	
		-	Dem	Indep	Rep	Libertarian	Other	Yes	No	-	Yes	No	Yes	No	Favor	Unfavor	Oahu	N.I.	Oahu	B.I.
		(A)	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(A)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)
Q11	Strongly support	45%	47%	41%	50%	29%	40%	47% B	34%	48%	52% B	42%	43%	48%	43%	44%	47% B	39%	47%	37%
	Somewhat support	42%	41%	44%	44%	47%	43%	40%	55% A	41%	39%	44%	44%	41%	45%	43%	39%	50% A	39%	57% A
	Somewhat oppose	8%	7%	10%	5%	14%	15%	8%	9%	6%	5%	10% A	10%	7%	9%	10%	9%	7%	9%	6%
	Strongly oppose	4%	5%	5%	1%	10%	2%	5%	2%	5%	3%	5%	4%	5%	3%	3%	4%	4%	4%	1%
	5	0%	0%	4	4	4	4	0%	4	0%	0%	4	4	0%	4	4	4	0%	4	4
	Total	933	478	200	159	37	59	791	142	383	307	626	523	410	286	90	455	478	455	202
SUMMARY	Mean	3.28	3.29	3.22	3.42 D	2.94	3.22	3.30	3.20	3.33	3.40 B	3.24	3.26	3.31	3.27	3.27	3.30	3.24	3.30	3.29

**RESIDENT ATTITUDE STUDY**

**Currently, about 5% of all land in Hawaii is allocated for urban and residential use. Would you support increasing that amount by maybe one or two-percentage points to 6% or 7%?:**

		COUNTY		GENDER		HOUSEHOLD INCOME			ETHNICITY					AGE				HAWAII RESIDENT	
		Maui	Kauai	Male	Female	<\$50K	\$50K-\$100K	\$100K+	Caucasian	Japanese	Hawaiian	Filipino	Other	18-34	35-49	50-64	65+	Born & Raised	Transplant
		(C)	(D)	(A)	(B)	(A)	(B)	(C)	(A)	(B)	(C)	(D)	(E)	(A)	(B)	(C)	(D)	(A)	(B)
Q11	Strongly support	39%	47%	51% B	41%	46%	47%	43%	45%	44%	49%	41%	44%	44%	46%	46%	43%	42%	49% A
	Somewhat support	46%	39%	37%	46% A	41%	41%	46%	42%	48%	35%	47%	38%	43%	40%	45%	42%	45% B	38%
	Somewhat oppose	6%	12%	7%	9%	9%	9%	7%	8%	7%	9%	6%	11%	9%	8%	6%	9%	9%	8%
	Strongly oppose	9% B	2%	5%	4%	4%	4%	4%	4%	1%	7% B	6%	7% B	4%	5%	3%	5%	4%	5%
	5	4	0%	4	0%	0%	4	4	0%	4	4	4	4	4	4	4	0%	4	0%
	Total	167	109	398	525	242	313	310	378	197	145	46	137	201	303	239	190	537	396
SUMMARY	Mean	3.15	3.32	3.33	3.25	3.29	3.31	3.28	3.29	3.35	3.27	3.24	3.18	3.26	3.28	3.33	3.24	3.26	3.31

**RESIDENT ATTITUDE STUDY**

**Currently, about 5% of all land in Hawaii is allocated for urban and residential use. Would you support increasing that amount by maybe one or two-percentage points to 6% or 7%?:**

		PRIMARY RESIDENCE			UNION HSE		COLLEGE GRADUATE		EMPLOYED		OAHU AREA						BIG ISLAND		PUBLIC SECTOR HSE	
		Own	Rent	Rent free	Yes	No	Yes	No	Full/Part	No	Metro HNL	East HNL	Windward	North Shore	Central	West	Kona	Hilo	Yes	No
		(A)	(B)	(C)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(C)	(D)	(E)	(F)	(A)	(B)	(A)	(B)
Q11	Strongly support	39%	54% A	45%	47%	44%	46%	44%	47%	41%	51%	41%	46%	42%	49%	45%	33%	39%	45%	45%
	Somewhat support	49% B	33%	39%	43%	42%	42%	43%	41%	45%	33%	46%	45%	50%	39%	42%	57%	56%	43%	42%
	Somewhat oppose	7%	9%	14%	7%	9%	8%	8%	8%	9%	10%	10%	7%	8%	10%	6%	8%	4%	7%	9%
	Strongly oppose	5%	4%	2%	3%	5%	4%	4%	4%	5%	6%	3%	1%	4	2%	7%	2%	0%	4%	4%
	5	0%	4	4	4	0%	0%	4	4	0%	4	4	4	4	4	4	4	4	4	0%
	Total	534	327	72	241	692	534	397	607	326	169	63	50	7	84	82	115	87	274	659
SUMMARY	Mean	3.23	3.36	3.28	3.36	3.25	3.29	3.27	3.31	3.22	3.30	3.26	3.37	3.33	3.36	3.24	3.21	3.34	3.30	3.28

(09/21) \* Prepared by Anthology Research \*1,2,3,5,6

- Results are based on two-sided tests assuming equal variances. For each significant pair, the key of the smaller category appears in the category with the larger mean.  
Significance level for upper case letters (A, B, C): .05
- Tests are adjusted for all pairwise comparisons within a row of each innermost subtable using the Bonferroni correction.
- Cell counts in some subtables are not integers. They were rounded to the nearest integers before performing pairwise comparisons.
- This category is not used in comparisons because its column proportion is equal to zero or one.
- Results are based on two-sided tests. For each significant pair, the key of the category with the smaller column proportion appears in the category with the larger column proportion.  
Significance level for upper case letters (A, B, C): .05
- Cell counts of some categories are not integers. They were rounded to the nearest integers before performing column proportions tests.