## Methodology

The American Trends Panel survey methodology

## **Overview**

The American Trends Panel (ATP), created by Pew Research Center, is a nationally representative panel of randomly selected U.S. adults. Panelists participate via self-administered web surveys. Panelists who do not have internet access at home are provided with a tablet and wireless internet connection. Interviews are conducted in both English and Spanish. The panel is being managed by Ipsos.

Data in this report is drawn from the panel wave conducted July 5-17, 2022, and included oversamples of adults who identify as lesbian, gay or bisexual (LGB), adults who have used online dating sites or apps and adults who are currently looking for a romantic partner, in order to provide more precise estimates of the opinions and experiences of these smaller demographic subgroups. These oversampled groups are weighted back to reflect their correct proportions in the population. A total of 6,034 panelists responded out of 7,374 who were sampled, for a response rate of 84%. This included 4,996 respondents from the ATP and an oversample of 1,038 LGB respondents from Ipsos' KnowledgePanel (KP). The cumulative response rate accounting for nonresponse to the recruitment surveys and attrition is 3%. The break-off rate among panelists

who logged on to the survey and completed at least one item is 1%. The margin of sampling error for the full sample of 6,034 respondents is plus or minus 2.0 percentage points.

## **Panel recruitment**

The ATP was created in 2014, with the first cohort of panelists invited to join the panel at the end of a large, national, landline and cellphone random-digit-dial (RDD) survey that was conducted in both English and Spanish. Two additional

## **American Trends Panel recruitment surveys**

Recruitment dates	Mode	Invited	Joined	Active panelists remaining
Jan. 23 to March 16, 2014	Landline/ cell RDD	9,809	5,338	1,593
Aug. 27 to Oct. 4, 2015	Landline/ cell RDD	6,004	2,976	936
April 25 to June 4, 2017	Landline/ cell RDD	3,905	1,628	470
Aug. 8 to Oct. 31, 2018	ABS	9,396	8,778	4,420
Aug. 19 to Nov. 30, 2019	ABS	5,900	4,720	1,618
June 1 to July 19, 2020; Feb. 10 to March 31, 2021	ABS	3,197	2,812	1,692
May 29 to July 7, 2021 Sept. 16 to Nov. 1, 2021	ABS	1,329	1,162	931
	Total	39,540	27,414	11,660

Note: Approximately once per year, panelists who have not participated in multiple consecutive waves or who did not complete an annual profiling survey are removed from the panel. Panelists also become inactive if they ask to be removed from the panel.

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recruitments were conducted using the same method in 2015 and 2017, respectively. Across these three surveys, a total of 19,718 adults were invited to join the ATP, of whom 9,942 (50%) agreed to participate.

In August 2018, the ATP switched from telephone to address-based (ABS) recruitment. Invitations were sent to a stratified, random sample of households selected from the U.S. Postal Service's Delivery Sequence File. Sampled households receive mailings asking a randomly selected adult to complete a survey online. A question at the end of the survey asks if the respondent is willing to join the ATP. Starting in 2020 another stage was added to the recruitment. Households that do not respond to the online survey are sent a paper version of the questionnaire, \$5 and a postage-paid return envelope. A subset of the adults returning the paper version of the survey are invited to join the ATP. This subset of adults receive a follow-up mailing with a \$10 pre-incentive and invitation to join the ATP.

Across the four address-based recruitments, a total of 19,822 adults were invited to join the ATP, of whom 17,472 agreed to join the panel and completed an initial profile survey. In each household, the adult with the next birthday was asked to go online to complete a survey, at the end of which they were invited to join the panel. Of the 27,414 individuals who have ever joined the ATP, 11,660 remained active panelists and continued to receive survey invitations at the time this survey was conducted.

The U.S. Postal Service's Delivery Sequence File has been estimated to cover as much as 98% of the population, although some studies suggest that the coverage could be in the low 90% range. The American Trends Panel never uses breakout routers or chains that direct respondents to additional surveys.

## **About the Ipsos KnowledgePanel**

The Ipsos KnowledgePanel is an online probability-based panel representative of the U.S. adult population. Households without internet connection are provided with a web-enabled device and free internet service. KnowledgePanel's recruitment process was originally based on a national RDD sampling methodology. In 2009, the panel switched to using an Address Based Sampling methodology. Additional information about the recruitment, sampling and weighting procedures for the Ipsos KnowledgePanel is available <a href="here">here</a>.

<sup>&</sup>lt;sup>1</sup> AAPOR Task Force on Address-based Sampling, 2016. "AAPOR Report: Address-based Sampling."

## Sample design

The overall target population for this survey was noninstitutionalized persons ages 18 and older living in the U.S., including Alaska and Hawaii. It featured a stratified random sample from the ATP in which panelists who identify as lesbian, gay or bisexual, have used online dating sites or apps or who are currently looking for a romantic partner were selected with certainty. The remaining panelists were sampled at rates designed to ensure that the share of respondents in each stratum is proportional to its share of the U.S. adult population to the greatest extent possible. Respondent weights are adjusted to account for differential probabilities of selection as described in the Weighting section below.

The ATP was supplemented with an oversample of LGB respondents from the KnowledgePanel.

## Questionnaire development and testing

The questionnaire was developed by Pew Research Center in consultation with Ipsos. The web program was rigorously tested on both PC and mobile devices by the Ipsos project management team and Pew Research Center researchers. The Ipsos project management team also populated test data that was analyzed in SPSS to ensure the logic and randomizations were working as intended before launching the survey.

#### **Incentives**

All respondents were offered a post-paid incentive for their participation. Respondents could choose to receive the post-paid incentive in the form of a check or a gift code to Amazon.com or could choose to decline the incentive. Incentive amounts ranged from \$5 to \$20 depending on whether the respondent belongs to a part of the population that is harder or easier to reach. Differential incentive amounts were designed to increase panel survey participation among groups that traditionally have low survey response propensities.

Ipsos operates an ongoing modest incentive program for KnowledgePanel to encourage participation and create member loyalty. The incentive program includes special raffles and sweepstakes with both cash rewards and other prizes to be won. Typically, panel members are assigned no more than one survey per week. On average, panel members complete two to three surveys per month with durations of 10 to 15 minutes per survey. An additional incentive is usually provided for longer surveys.

## **Data collection protocol**

The data collection field period for this survey was July 5-17, 2022. Postcard notifications were mailed to all ATP panelists with a known residential address on July 5, 2022.

Invitations were sent out in two separate launches: Soft Launch and Full Launch. Sixty ATP panelists and 456 KP panelists were included in the Soft Launch, which began with an initial invitation sent on July 5, 2022. The ATP panelists chosen for the initial Soft Launch were known responders who had completed previous ATP surveys within one day of receiving their invitation. All remaining English- and Spanish-speaking panelists were included in the Full Launch and were sent an invitation on July 6, 2022.

All panelists with an email address received an email invitation and up to four email reminders if they did not respond to the survey. All ATP panelists that consented to SMS messages received an SMS invitation and up to four SMS reminders.

Invitation and reminder dates						
	Soft Launch	Full Launch				
Initial invitation	July 5, 2022	July 6, 2022				
First reminder	July 9, 2022	July 9, 2022				
Second reminder	July 11, 2022	July 11, 2022				
Third reminder	July 13, 2022	July 13, 2022				
Final reminder	July 15, 2022	July 15, 2022				

## **Data quality checks**

To ensure high-quality data, the Center's researchers performed data quality checks to identify any respondents showing clear patterns of satisficing. This includes checking for very high rates of leaving questions blank, as well as always selecting the first or last answer presented. As a result of this checking, two ATP respondents were removed from the survey dataset prior to weighting and analysis.

## Weighting

The data was weighted in a multistep process that accounts for multiple stages of sampling and nonresponse that occur at different points in the survey process. First, each panelist began with a base weight that reflects their probability of selection for their initial recruitment survey. These weights were then adjusted to account for each panelist's probability of being sampled to participate in this wave.

Next, respondents were placed into one of three groups: 1) LGB ATP respondents, 2) LGB

## Weighting dimensions

Variable	Benchmark source
Age x Gender Education x Gender Education x Age Race/Ethnicity x Education Born inside vs. outside the U.S. among Hispanics and Asian Americans Years lived in the U.S.	2019 American Community Survey (ACS)
Census region x Metro/Non-metro	2020 CPS March Supplement
Voter registration	2018 CPS Voting and Registration Supplement
Party affiliation Frequency of internet use Religious affiliation	2021 National Public Opinion Reference Survey (NPORS)
Volunteerism LGB Orientation	2021 American Trends Panel Annual Profile Survey

Note: Estimates from the ACS are based on non-institutionalized adults. Voter registration is calculated using procedures from Hur, Achen (2013) and rescaled to include the total U.S. adult population.

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KnowledgePanel respondents, or 3) all remaining ATP respondents. Within each group, the weights for each respondent were scaled to be proportional to that group's effective sample size.

The groups were then recombined, and the weights were poststratified so that the weighted proportion of LGB adults matched its estimated share of the U.S. adult population.

The weights were then calibrated to align with the population benchmarks identified in the accompanying table and trimmed at the 1st and 99th percentiles to reduce the loss in precision stemming from variance in the weights. Sampling errors and tests of statistical significance take into account the effect of weighting.

Some of the population benchmarks used for weighting come from surveys conducted prior to the coronavirus outbreak that began in February 2020. However, the weighting variables for panelists recruited in 2021 were measured at the time they were recruited to the panel. Likewise, the profile variables for existing panelists were updated from panel surveys conducted in July or August 2021. For KnowledgePanel respondents, many of the weighting variables were measured on this wave.

This does not pose a problem for most of the variables used in the weighting, which are quite stable at both the population and individual levels. However, volunteerism may have changed over the intervening period in ways that made their 2021 measurements incompatible with the available (pre-pandemic) benchmarks. To address this, volunteerism is weighted to an estimated benchmark that attempts to account for possible changes in behavior.

The weighting parameter is estimated using the volunteerism profile variable that was measured on the full American Trends Panel in 2021 but weighted using the profile variable that was measured in 2020. For all other weighting dimensions, the more recent panelist measurements were used. For ATP panelists recruited in 2021, the 2020 volunteerism measure was imputed using data from existing panelists with similar characteristics. For panelists recruited in 2021, plausible values were imputed using the 2020 volunteerism values from existing panelists with similar characteristics. This ensures that any patterns of change that were observed in the existing panelists were also reflected in the new recruits when the weighting was performed.

The following table shows the unweighted sample sizes and the error attributable to sampling that would be expected at the 95% level of confidence for different groups in the survey.

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Group	Unweighted sample size	Plus or minus
Total sample	6,034	2.0 percentage points
Ages 18-29	929	5.4 percentage points
30-49	2,248	3.4 percentage points
50-64	1,598	3.9 percentage points
65+	1,241	4.0 percentage points
Upper income	1,365	4.2 percentage points
Middle income	2,922	2.9 percentage points
Lower income	1,527	4.1 percentage points

Note: This survey includes <u>oversamples</u> of lesbian, gay or bisexual (LGB) respondents, respondents who have used online dating sites or apps and respondents who are currently looking for a romantic partner. Unweighted sample sizes do not account for the sample design or weighting and do not describe a group's contribution to weighted estimates. See the <u>Sample design</u> and <u>Weighting</u> sections above for details.

Sample sizes and sampling errors for other subgroups are available upon request. In addition to sampling error, one should bear in mind that question wording and practical difficulties in conducting surveys can introduce error or bias into the findings of opinion polls.

## Adjusting income and defining income tiers

To create upper-, middle- and lower-income tiers, respondents' 2020 family incomes were adjusted for differences in purchasing power by geographic region and household size. "Middle-income" adults live in families with annual incomes that are two-thirds to double the median family income in the panel (after incomes have been adjusted for the local cost of living and household size). The middle-income range for the American Trends Panel is about \$42,000 to \$125,900 annually for an average family of three. Lower-income families have incomes less than roughly \$42,000, and upper-income families have incomes greater than roughly \$125,900 (all figures expressed in 2020 dollars).

Based on these adjustments, 29% of respondents are lower income, 49% are middle income and 17% fall into the upper-income tier. An additional 5% either didn't offer a response to the income question or the household size question.

For more information about how the income tiers were determined, please see <u>here</u>.

## **Dispositions and response rates**

Final dispositions	AAPOR code	ATP	KP	Total
Completed interview	1.1	4,996	1,038	6,034
Logged on to survey; broke off	2.12	31	28	59
Logged on to survey; did not complete any items	2.1121	17	30	47
Never logged on (implicit refusal)	2.11	466	621	1,087
Survey completed after close of the field period	2.27	2	1	3
Completed interview but was removed for data quality	2.3	2	0	2
Screened out	4.7	0	142	142
Total panelists in the survey		5,514	1,860	7,374
Completed interviews	I	4,996	1,038	6,034
Partial interviews	Р			
Refusals	R	516	28	544
Non-contact	NC	2		2
Other	0			
Unknown household	UH			
Unknown other	UO		651	651
Not eligible	NE			
Screen out	SO		143	143
Total		5,514	1,860	7,374
Est. eligibility rate among unscreened: e = (I+R)/(I+R+S0)		100%	88%	91%
AAPOR RR1 = I / (I+P+R+NC+O+UH+UO)		91%	60%	83%
AAPOR RR3 = I / (I+R+[e*UO])		91%	63%	84%

Cumulative response rate	ATP	KP	Total
Weighted response rate to recruitment surveys	12%	10%	11%
% of recruitment survey respondents who agreed to join the panel, among those invited	69%	60%	67%
% of those agreeing to join who were active panelists at start of Wave 111	43%	54%	46%
Response rate to Wave 111 survey	91%	63%	84%
Cumulative response rate	3%	2%	3%

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## **Topline questionnaire: Wave 111**

# 2022 PEW RESEARCH CENTER'S AMERICAN TRENDS PANEL WAVE 111 JULY 2022 FINAL TOPLINE JULY 5-17, 2022 N=6,034

THE QUESTIONS PRESENTED BELOW ARE PART OF A LARGER SURVEY CONDUCTED ON THE AMERICAN TRENDS PANEL. OTHER QUESTIONS ON THIS SURVEY HAVE BEEN RELEASED OR ARE BEING HELD FOR FUTURE RELEASE.

NOTE: ALL NUMBERS ARE PERCENTAGES UNLESS OTHERWISE NOTED. THE PERCENTAGES LESS THAN 0.5% ARE REPLACED BY AN ASTERISK (\*). ROWS/COLUMNS MAY NOT TOTAL 100% DUE TO ROUNDING.

Wargin of error at 95%
Sample size confidence level
U.S. adults 6,034 +/- 2.0 percentage points

#### ASK IF INTERNET USER (XTABLET=2) [N=5,892]:

ONLSHOP1 Thinking about your general shopping habits, do you ever buy things online...

_	Using a desktop or laptop computer? Jul 5-17, 2022	Yes, I do this	No, I do not do this	No answer
a.		72	27	1
b.	Using a tablet? Jul 5-17, 2022	30	69	2
c.	Using a smartphone? Jul 5-17, 2022	79	21	1

#### **ONLSHOP1 BASED ON ALL ADULTS:**

ONLSHOP1 Thinking about your general shopping habits, do you ever buy things online...<sup>2</sup>

	Using a desktop or laptop computer? Jul 5-17, 2022	Yes, I do this	No, I do not do this	No answer
a.		69	26	1
b.	Using a tablet? Jul 5-17, 2022	28	66	2
c.	Using a smartphone? Jul 5-17, 2022	76	20	1

<sup>&</sup>lt;sup>2</sup> Those who do not use the internet are not shown.

## ASK IF EVER BUYS THINGS ONLINE (ONLSHOP1a-c=1):

ONLSHOP2 How often do you buy things online... [ONLY SHOW ITEMS MARKED YES IN ONLSHOP1 (ONLSHOP1a-c=1)]

		Every day	Several times a week	About once a week	A few times a <u>month</u>	About once a month	Less often than <u>monthly</u>	No answer
a.	ASK IF EVER USES COMPUTER TO ONLINE SHOP (ONLSHOPa=1) [N=4,612]: Using a desktop or laptop computer? Jul 5-17, 2022	6	11	14	26	16	26	*
b.	ASK IF EVER USES TABLET TO ONLINE SHOP (ONLSHOPb=1) [N=1,827]: Using a tablet? Jul 5-17, 2022	5	11	10	22	18	33	*
c.	ASK IF EVER USES SMARTPHONE TO ONLINE SHOP (ONLSHOPC=1) [N=4,732]: Using a smartphone?		45	16	26		10	*
	Jul 5-17, 2022	11	15	16	26	13	18	*

## ASK IF INTERNET USER (XTABLET=2) [N=5,892]:

SHOP4 If given the choice, do you generally prefer to buy online or from a physical store?

Jul 5-17, 2022

40 Online

60 Physical store \* No answer

## **SHOP4 BASED ON ALL ADULTS:**

SHOP4 If given the choice, do you generally prefer to buy online or from a physical store?<sup>3</sup>

Jul 5-17, 2022

38 Online

57 Physical store

\* No answer

<sup>&</sup>lt;sup>3</sup> Those who do not use the internet are not shown.

## ASK IF INTERNET USER (XTABLET=2) [N=5,892]:

SNSUSE Do you ever use social media sites like Facebook, Twitter, or Instagram?

## Jul 5-17, 2022 76 Yes, I use social media sites 24 No, I do not use social media sites 1 No answer

## **DISPLAY TO SOCIAL MEDIA USERS (SNSUSE=1):**

ONLSHOPVIG The next few questions are about people who use social media to promote products, share tutorials, or create content primarily to have an impact on people's tastes, purchases, or opinions. These people are sometimes referred to as "influencers" or "content creators."

## ASK IF SOCIAL MEDIA USER (SNSUSE=1) [N=4,628]:

ONLSHOP3 Do you follow any influencers or content creators on social media?

<u>Jul 5-17, 2022</u>	
40	Yes, I do
52	No, I do not
8	Not sure
*	No answer

## ASK IF SOCIAL MEDIA USER (SNSUSE=1) [N=4,628]:

ONLSHOP4 Have you ever purchased something after seeing an influencer or content creator post about it on social media?

Jul 5-17, 2022	
30	Yes, I have done this
63	No, I have not done this
7	Not sure
*	No answer

## ASK IF SOCIAL MEDIA USER (SNSUSE=1) [N=4,628]:

ONLSHOP5 How much do influencers or content creators impact your decisions about what to purchase?

<u>Jul 5-17, 2022</u>	
3	A lot
36	A little
61	Not at all
*	No answer