

Methodology

The American Trends Panel survey methodology

Overview

Data in this report comes from Wave 156 of the American Trends Panel (ATP), Pew Research Center’s nationally representative panel of randomly selected U.S. adults. The survey was conducted from Sept. 30 to Oct. 6, 2024. A total of 5,110 panelists responded out of 5,689 who were sampled, for a survey-level response rate of 90%.

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 5,110 respondents is plus or minus 1.7 percentage points.

The survey includes [oversamples](#) of non-Hispanic Asian adults, non-Hispanic Black adults, Hispanic adults, and adults ages 18 to 29 in order to provide more precise estimates of the opinions and experiences of these smaller demographic subgroups. It also included an oversample of validated 2016 and 2020 “vote switchers” (i.e., those who voted for Donald Trump in 2020 but not in 2016 or who voted for Joe Biden in 2020 but not for Hillary Clinton in 2016). These oversampled groups are weighted back to reflect their correct proportions in the population.

SSRS conducted the survey for Pew Research Center via online (n=4,926) and live telephone (n=184) interviewing. Interviews were conducted in both English and Spanish.

To learn more about the ATP, read “[About the American Trends Panel](#).”

Panel recruitment

Since 2018, the ATP has used address-based sampling (ABS) for recruitment. A study cover letter and a pre-incentive are mailed to a stratified, random sample of households selected from the U.S. Postal Service’s Computerized Delivery Sequence File. This Postal Service file has been estimated to cover 90% to 98% of the population.¹ Within each sampled household, the adult with the next birthday is selected to participate. Other details of the ABS recruitment protocol have changed

¹ AAPOR Task Force on Address-based Sampling. 2016. “[AAPOR Report: Address-based Sampling](#).”

over time but are available upon request.² Prior to 2018, the ATP was recruited using landline and cellphone random-digit-dial surveys administered in English and Spanish.

A national sample of U.S. adults has been recruited to the ATP approximately once per year since 2014. In some years, the recruitment has included additional efforts (known as an “oversample”) to improve the accuracy of data for underrepresented groups. For example, Hispanic adults, Black adults and Asian adults were oversampled in 2019, 2022 and 2023, respectively.

Sample design

The overall target population for this survey was noninstitutionalized persons ages 18 and older living in the United States. It featured a stratified random sample from the ATP in which the following subgroups were selected with certainty:

- Non-Hispanic Asian adults
- Non-Hispanic Black adults
- Hispanic adults
- Adults ages 18 to 29
- Validated 2016 and 2020 voters who voted for Donald Trump in 2020 but voted for a different candidate in 2016³
- Validated 2016 and 2020 voters who voted for Joe Biden in 2020 but did not vote for Hillary Clinton in 2016

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.

Questionnaire development and testing

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

² Email pewsurveys@pewresearch.org.

³ A validated voter is a citizen who told us that they voted in the 2016 and 2020 general elections *and* have a record for voting in a commercial voter file. A voter file is a list of adults that includes information such as which elections they have voted in. Federal law requires states to maintain voter files, and businesses assemble these files to create a nationwide list of adults along with their voter information.

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 gift code to Amazon.com, Target.com or Walmart.com. 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.

Data collection protocol

The data collection field period for this survey was Sept. 30 to Oct. 6, 2024. Surveys were conducted via self-administered web survey or by live telephone interviewing.

For panelists who take surveys online: Postcard notifications were mailed to a subset on Sept. 30.⁴ Survey invitations were sent out in two separate launches: soft launch and full launch. Sixty panelists were included in the soft launch, which began with an initial invitation sent on Sept. 30. All remaining English- and Spanish-speaking sampled online panelists were included in the full launch and were sent an invitation on Oct. 1.

Invitation and reminder dates for web respondents, ATP Wave 156

	Soft launch	Full launch
Initial invitation	Sept. 30, 2024	Oct. 1, 2024
First reminder	Oct. 3, 2024	Oct. 3, 2024
Final reminder	Oct. 5, 2024	Oct. 5, 2024

PEW RESEARCH CENTER

Panelists participating online were sent an email invitation and up to two email reminders if they did not respond to the survey. ATP panelists who consented to SMS messages were sent an SMS invitation with a link to the survey and up to two SMS reminders.

For panelists who take surveys over the phone with a live interviewer: Prenotification postcards were mailed on Sept. 27. Soft launch took place on Sept. 30 and involved dialing until a total of six interviews had been completed. All remaining English- and Spanish-speaking sampled

⁴ The ATP does not use routers or chains in any part of its online data collection protocol, nor are they used to direct respondents to additional surveys. Postcard notifications for web panelists are sent to 1) panelists who were recruited within the last two years and 2) panelists recruited prior to the last two years who opt to continue receiving postcard notifications.

phone panelists' numbers were dialed throughout the remaining field period. Panelists who take surveys via phone can receive up to six calls from trained SSRS interviewers.

Data quality checks

To ensure high-quality data, Center researchers performed data quality checks to identify any respondents showing patterns of satisficing. This includes checking for whether respondents left questions blank at very high rates or always selected the first or last answer presented. As a result of this checking, eight ATP respondents were removed from the survey dataset prior to weighting and analysis.

Weighting

The ATP data is weighted in a process that accounts for multiple stages of sampling and nonresponse that occur at different points in the panel survey process. First, each panelist begins with a base weight that reflects their probability of recruitment into the panel. These weights are then calibrated to align with the population benchmarks in the accompanying table to correct for nonresponse to recruitment surveys and panel attrition. If only a subsample of panelists was invited to participate in the wave, this weight is adjusted to account for any differential probabilities of selection.

American Trends Panel weighting dimensions

Variable	Benchmark source
Age (detailed)	2022 American Community Survey (ACS)
Age x Gender	
Education x Gender	
Education x Age	
Race/Ethnicity x Education	
Race/Ethnicity x Gender	
Black (alone or in combination) x Hispanic	
Born inside vs. outside the U.S. among Hispanics and Asian Americans	
Years lived in the U.S.	
Census region x Metropolitan status	
Volunteerism	2021 CPS Volunteering & Civic Life Supplement
Voter registration	2020 CPS Voting and Registration Supplement
Frequency of internet use	2024 National Public Opinion Reference Survey (NPORS)
Religious affiliation	
Party affiliation x Race/Ethnicity	
Party affiliation among registered voters	

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

PEW RESEARCH CENTER

Among the panelists who completed the survey, this weight is then calibrated again 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.

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.

Sample sizes and margins of error, ATP Wave 156

Group	Unweighted sample size	Weighted %	Plus or minus ...
Total sample	5,110		1.7 percentage points
Ages 18-29	945		3.9 percentage points
30-49	1,748		2.9 percentage points
50+	2,396		2.4 percentage points
K-12 parent	1,147		3.6 percentage points
Not a K-12 parent	3,946		1.9 percentage points
Rep/Lean Rep	2,104	48	2.5 percentage points
Dem/Lean Dem	2,863	48	2.3 percentage points

Note: This survey includes oversamples of non-Hispanic Asian adults, non-Hispanic Black adults, Hispanic adults, adults ages 18-29, validated voters who did not vote for Donald Trump in 2016 and voted for Donald Trump in 2020, and validated voters who did not vote for Hillary Clinton in 2016 and voted for Joe Biden in 2020. Unweighted sample sizes do not account for the sample design or weighting and do not describe a group's contribution to weighted estimates. Refer to the Sample design and Weighting sections above for details.

PEW RESEARCH CENTER

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.

Dispositions and response rates

Final dispositions, ATP Wave 156

	AAPOR code	Total
Completed interview	1.1	5,110
Logged in (web) / Contacted (CATI), but did not complete any items	2.11	81
Started survey; broke off before completion	2.12	39
Never logged on (web) / Never reached on phone (CATI)	2.20	451
Survey completed after close of the field period	2.27	0
Other non-interview	2.30	0
Completed interview but was removed for data quality	2.90	0
Total panelists sampled for the survey		5,689
Completed interviews	I	5,110
Partial interviews	P	0
Refusals	R	120
Non-contact	NC	451
Other	O	8
Unknown household	UH	0
Unknown other	UO	0
Not eligible	NE	0
Total		5,689
AAPOR RR1 = $I / (I+P+R+NC+O+UH+UO)$		90%

PEW RESEARCH CENTER

Cumulative response rate, ATP Wave 156

	Total
Weighted response rate to recruitment surveys	11%
% of recruitment survey respondents who agreed to join the panel, among those invited	73%
% of those agreeing to join who were active panelists at start of Wave 156	35%
Response rate to Wave 156 survey	90%
Cumulative response rate	3%

PEW RESEARCH CENTER