

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 from Oct. 4 to Oct. 17, 2021. A total of 6,513 panelists responded out of 9,738 who were sampled, for a response rate of 68% (AAPOR RR3). This includes 3,626 respondents from the ATP and an oversample of 2,887 Black Americans from Ipsos' KnowledgePanel. The cumulative response rate accounting for nonresponse to the recruitment surveys and attrition is 2%. The break-off rate among panelists who logged on to the survey and completed at least one item is 3%. The margin of sampling error for the full sample of 6,513 respondents is plus or minus 2.2 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 survey that was conducted in both English and Spanish. Two additional 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.

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	1,604
Aug. 27 to Oct. 4, 2015	Landline/ cell RDD	6,004	2,976	939
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	4,433
Aug. 19 to Nov. 30, 2019	ABS	5,900	4,720	1,627
June 1 to July 19, 2020; Feb. 10 to March 31, 2021	ABS	3,197	2,812	1,699
May 29 to July 7, 2021	ABS	1,085	947	726
	Total	39,296	27,199	11,498

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. The 2021 recruitment survey was ongoing at the time this survey was conducted. The counts reflect completed recruitment interviews up through July 7, 2021.

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In August 2018, the ATP switched from telephone to address-based 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 19,578 adults were invited to join the ATP, of whom 17,257 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 27,199 individuals who have ever joined the ATP, 11,498 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.¹ 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 ABS methodology. Additional information about the recruitment, sampling and weighting procedures for the Ipsos KnowledgePanel are available [here](#).

Sample design

The overall target population for this survey was non-institutionalized 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 were assigned to the first matching stratum in the following order: Black Americans (including those who identify as Hispanic or Black in combination with another race), tablet households, foreign-born Hispanics, U.S.-born Hispanics, people not registered to vote,

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

people with a high school education or less, foreign-born Asians, people ages 18 to 34, people who use the internet weekly or less, non-volunteers and a final stratum comprised of any remaining panelists not assigned to any of the above. Black ATP members were selected with certainty. The remaining strata 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 from the KnowledgePanel in which all panelists who had previously identified as Black or African American (including those who identify as Hispanic or Black in combination with another race) were selected with certainty.

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. For this survey, KnowledgePanel members were offered 10,000 points (equivalent to \$10) in addition to the regular incentive program on Oct. 16, 2021 at 4:30pm Eastern to those who hadn't responded yet in an attempt to boost the number of responses from KnowledgePanel members.

Data collection protocol

The data collection field period for this survey was Oct. 4 to Oct. 17, 2021. Postcard notifications were mailed to all ATP panelists with a known residential address on Oct. 4, 2021.

Invitations were sent out in two separate launches: Soft Launch and Full Launch. Sixty ATP panelists and 229 KP panelists were included in the soft launch, which began with an initial invitation sent on Oct. 4, 2021. 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 Oct. 5, 2021.

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. The third and final reminders were sent to all KP sample and only to ATP sample that had previously identified as Black in the panel profile survey.

Invitation and reminder dates

	Soft Launch	Full Launch
Initial invitation	October 4, 2021	October 5, 2021
First reminder	October 8, 2021	October 8, 2021
Second reminder	October 11, 2021	October 11, 2021
Third reminder (for Black panelists only)	October 13, 2021	October 13, 2021
Final reminder (for Black panelists only)	October 15, 2021	October 15, 2021

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, three ATP and four KP 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 begins 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) Black ATP respondents, 2) Black KnowledgePanel respondents, 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 Black adults matches that of the U.S. adult population.

Weighting dimensions

Variable	Benchmark source
Age x Gender	2019 American Community Survey (ACS)
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.	
Gender x Black or African American	
Age x Black or African American	
Education x Black or African American	
Census region x Metro/Non-metro	2020 CPS March Supplement
Volunteerism	2021 American Trends Panel Annual Profile Survey
Voter registration	2018 CPS Voting and Registration Supplement
Voter registration x Black or African American	
Party affiliation	2021 National Public Opinion Reference Survey (NPORS)
Frequency of internet use	
Religious affiliation	

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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The weights were then further 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. In a final step, the trimmed weights were again poststratified to ensure that the share of Black adults exactly matches the U.S. population. Sampling errors and test 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 ATP members 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 make 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 American Trends panelists recruited in 2021, the 2020 volunteerism measure was imputed using data from existing panelists with similar characteristics.

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.

Group	Unweighted sample size	Plus or minus ...
Total sample	6,513	2.2 percentage points

Note: This survey includes an [oversample](#) of Black respondents. 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 [Sample design](#) and [Weighting](#) 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.

Dispositions and response rates

Final dispositions	AAPOR code	ATP	KP	Total
Completed interview	1.1	3,626	2,887	6,513
Logged onto survey; broke-off	2.12	25	171	196
Survey completed after close of the field period	2.27	0	3	3
Completed interview but was removed for data quality	2.3	3	4	7
Logged onto survey; did not complete any items	3.21	20	90	110
Never logged on (implicit refusal)	3.22	245	2,538	2,783
Screened out	4.7	0	126	126
Total panelists in the survey		3,919	5,819	9,738
Completed interviews	I	3,626	2,887	6,513
Refusals	R	28	175	203
Unknown if eligible adult	UO	265	2,628	2,893
Screen out	SO	0	126	126
Total		3,919	5,819	9,738
Est. eligibility rate among unscreened: $e = (I+R)/(I+R+SO)$		100%	96%	98%
AAPOR RR3 = $I / (I+R+[e*UO])$		93%	52%	68%

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%	61%	64%
% of those agreeing to join who were active panelists at start of Wave 97	42%	37%	39%
Response rate to Wave 97 survey	93%	52%	68%
Cumulative response rate	3%	1%	2%

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