Cornell University

ROPER CENTER

31113652

Country:	United States
Title:	Pew Research Center: American Trends Panel Wave 8
Survey Organization(s):	Abt SRBI
Sponsor(s):	Pew Research Center
Field Dates:	October 3 - 27, 2014
Sample:	National adult
Sample Size:	3181
Sample Notes:	None
Interview mode:	Mail Questionnaire/Self-enumerated questionnaire; Web-based survey
Weight Location:	Columns 1081-1088 (xxx.xxxx) -- Varname: WEIGHT_W8
No. of records per respondent:	1
Usage Notes:	See documentation for detailed summaries on response rates for this study. Not all demographic variables from the Demographic Profile Questionnaire are included on every survey. Variables for these questions can be found at the end of the dataset; these variables have the prefix “F_” to denote that they are “frame” profile variables, which are not asked every wave.

2014 Pew Research Center's American Trends Panel
Wave 8
Methodology Report

Submitted to:
The Pew Research Center

Prepared by:
Abt SRBI

December 5, 2014

I. SUMMARY

The American Trends Panel (ATP) is a national, probability-based online panel of adults in the United States living in households. Adults who use the internet participate in the panel via self-administered Web surveys, and adults who do not use the internet participate via computer assisted telephone interviewing (CATI) or mail. The eighth wave of the panel survey was fielded for the Pew Research Center by Abt SRBI from October 3 through 27, 2014. In total, 3,181 ATP members completed the survey, with 2,875 participating by Web and 306 participating by mail. The survey was administered in English and Spanish. Survey weights are provided to account for differential probabilities of selection into the panel as well as differential nonresponse to the panel recruitment survey, the panel invitation, and the panel survey itself (Wave 8). The margin of sampling error for full sample weighted estimates is ± 2.29 percentage points.

II. SAMPLE DESIGN

The target population for Wave 8 was non-institutionalized persons age 18 and over, living in the US, including Alaska and Hawaii. The sample consisted of 4,228 members of the ATP, which is a probability-based online panel of adults in the United States. The ATP originally consisted of 5,338 members, however, 147 members requested to be removed from the panel prior to the start of Wave 8 and an additional 962 Web panelists were removed prior to the start of Wave 8 because they had not responded to any of the panel surveys since their recruitment. The Wave 8 Survey featured a simultaneous mixed-mode design. Panelists who use the internet and provided an email address participated via self-administered Web survey, and adults who do not use the internet (or do but did not provide an email address) participated via a mail survey. Abt SRBI conducted the survey but is not reporting on results based on part of the sample.

III. QUESTIONNAIRE DEVELOPMENT AND TESTING

The questionnaire was developed by the Pew Research Center in consultation with Abt SRBI. In order to improve the quality of the data, the Web program was rigorously tested by the Abt SRBI project management team and PRC researchers. Test scenarios were created for all possible combinations of sample variables and question filters to ensure all skip logic was functioning correctly. Test data was then analyzed to determine that all logic was correct. Pew Research Center has a copy of the final instruments in English and Spanish.

IV. DATA COLLECTION PROTOCOL FOR WAVE 8

Currently all ATP panelists have been recruited from a large (n=10,013) national overlapping dual frame landline and cell phone random digit dial (RDD) survey conducted for the Pew Research Center. At the end of that RDD survey, respondents were invited to join the panel.

The invitation was extended to all respondents who use the internet (from any location) and a random subsample of respondents who do not use the internet. The RDD survey was conducted from January 23rd to March 16th, 2014, in English and Spanish. Sample for the RDD survey was obtained from SSI. Please refer to the Pew Research Center Political Typology/Polarization Survey Methodology Report for additional information on the sample design for the RDD survey.

ATP panelists who reported using the internet and for whom we had an email address were invited to participate in Wave 8 via a self-administered Web survey. The data collection for the Web surveys was conducted from October 8-27, 2014. Advance postcards were mailed to all Web mode panelists with a known residential address. One hundred panelists were included in a soft launch of the Web survey which began with an initial email invitation sent on October 8. The Web panelists chosen for the soft launch were known responders to previous ATP surveys who had completed their surveys within two days of receiving their invitation. The remaining panelists assigned to the Web mode were included in the full launch and were sent an initial email invitation on October 9. Up to four reminder emails were sent to those who did not respond to the Web survey. Table 1 shows the field dates of mailings. The Web survey was closed October 27, 2014 at 9 a.m. Eastern.

Table 1. Mailing Dates for Wave 8 Panelists in Web Condition

	Soft Launch	Full Launch
Advance Post Card	October 8, 2014	October 8, 2014
Initial email invitation	October 8, 2014	October 9, 2014
1st reminder email	October 13, 2014	October 14, 2014
2nd reminder email	October 16, 2014	October 17, 2014
3rd reminder email	October 20, 2014	October 21, 2014
Final reminder email	October 23, 2014	October 24, 2014

ATP Web panelists age 18 to 25 and those who reported being Hispanic/Latino in the RDD recruitment survey were offered a $10 post-paid incentive for completing the Wave 8 Web survey. All other panelists who completed the Web survey were offered a $5 post-paid incentive. Web respondents could choose to receive the post-paid incentive in form of a check or a gift code to Amazon.com. The differential incentive amounts were designed to increase panel survey participation among groups that traditionally have low survey response propensities.

At the start of the Wave 8 Survey, 555 ATP members belonged to the non-Internet arm of the panel. These panelists had provided a residential address during the RDD recruitment survey, but they did not provide an email address. The data collection for both English and Spanish language mail surveys was conducted October 3-27, 2014 following the timeline shown in Table 2. The first packet of English language surveys were mailed using first class mail and Spanish language surveys were mailed using Priority mail. ATP panelists age 18 to 25 and those who reported being Hispanic/Latino in the RDD recruitment survey received a $10 bill in the first mailing, while all other panelists received a $5 bill. The reminder postcard and a second survey packer were sent to all mail mode respondents. Based on respondent feedback, we identified that a portion of the English booklets were sent to incorrect respondents but were unable to ascertain the full magnitude of the mismatches. As a result, the second reminder packet was sent to English respondents via USPS Priority mail and contained an additional cash pre-incentive to re-complete the survey and send it back. The cutoff date to process returned mail surveys was October 27, 2014, which allowed a week for final data entry and quality checking.

Table 2. Mailing Dates for Wave 8 Panelists in Mail Mode

Mailing	Date
First Packet	October 3, 2014
Reminder Post Card	October 10, 2014
Second Packet	October 17, 2014

V. WEIGHTING

Survey weights are needed to support reliable inference from the panel to the target population of US adults. The final survey dataset contains a full sample weight (WEIGHT_W8). The design of the full sample weight is described below.

The final full sample weight was computed in three main stages:

- Base weight adjusting for differential probabilities of selection
- Propensity adjustment for attrition
- Calibration to demographic distributions for the target population

Base Weight

A base weight is computed for all ATP members. The base weight adjusts for factors affecting the probability that the individual was selected for the panel. This probability comes from the survey in which the respondent was recruited. Currently, all ATP members were recruited through a probability-based, national overlapping dual-frame landline and cell phone RDD survey. The target population for the RDD survey was identical to the target population for the ATP (adults living in households in the US). The RDD survey was administered in English and

Spanish. All respondents to the RDD survey were invited to join the panel, except some individuals who do not use the internet, as this group was subsampled for the panel. In the landline sample of the RDD survey, one adult was randomly selected from within the household. Interviewers asked to speak with either the youngest male or youngest female at home at the time of the call. In the cell sample of the RDD survey, interviews were conducted with the person who answered the phone, provided they were age 18+ and spoke English or Spanish.

The base weight was computed using single frame estimation to adjust for the probability that the respondent's phone number was selected from the sampling frame, the overlap in the landline and cell phone frames, and the within household selection in the landline sample. For most panel members, the base weight is equal to the variable NEWWT1 in the 2014 Pew Research Center Polarization Study dataset and can be expressed as:

$$BASEWT = \frac{1}{\left(\frac{S_{ll}}{U_{ll}} \times \frac{LL}{AD}\right) + \left(\frac{S_{cp}}{U_{cp}} \times CP\right) - \left(\frac{S_{ll}}{U_{ll}} \times \frac{LL}{AD} \times \frac{S_{cp}}{U_{cp}} \times CP\right)}$$

Where:

LL =1 if respondent has a landline phone
=0 if respondent has no landline phone
(OR number of landlines on which the respondent could have been reached)

CP =1 if respondent has a cell phone
=0 if respondent has no cell phone
(OR number of cell phones on which the respondent could have been reached)

S_{ll}= number of cases released in the landline sample

S_{cp}=number of cases released in the cell phone sample

U_{ll}=size of the landline RDD frame

U_{cp}=size of the cell phone RDD frame

AD=number of adults in the household (1, 2, 3 or more)

For a subset of the ATP members, an additional adjustment is included in the base weight to account for the fact that they belong to a group that was subsampled for invitation to the panel. In the RDD survey, non-internet users were subsampled at a rate of 25% from January 23, 2014, through February 5, 2014, but they were not subsampled (100% invited) from February 6, 2014 through the end of the field period. Internet users who agreed to join the panel but did not have an email address were taken at 100% from January 23, 2014, through February 5, 2014, but they were subsampled at a rate of 25% from February 6, 2014, through the end of the field period. The base weight of the affected cases was multiplied by the inverse of the subsampling rate (1 / .25 = 4).

Adjusting for Attrition

The panel invitation featured a $10 post-paid incentive for agreeing to join and a fixed post-paid incentive for each panel survey completed. Hispanics/Latinos and adults age 18 to 25 were offered $10 per panel survey, and all other invitees were offered $5 per survey. The differential incentives were designed to preemptively offset anticipated differential response rates across these groups. In total, 9,810 RDD survey respondents were invited to join the ATP and 5,338 accepted, yielding a panel acceptance rate of 54%.

A majority of those who agreed to join the panel were still active at the start of Wave 8 (4,228/5,338=79%). Individuals who agreed to join the panel but were not active at the start of Wave 8 belong to two general classes: 147 panel members requested to be removed from the panel prior to the start of Wave 8 and an additional 963 panelists were removed prior to the start of Wave 8 because they had not responded to any of the panel surveys since their recruitment.

To the extent that active panel members may be different from individuals who are not active (either because they declined to join or because they dropped out), there is a risk that estimates from the panel could be subject to nonresponse bias. A propensity score adjustment was computed to adjust for this attrition. Most of the information available for individuals who either declined the panel invitation or have been dropped from the panel comes from the recruitment survey. A logistic regression model was estimated in which being an active panel member was regressed on recruitment survey sampling frame, incentive amount ($10/$5 per survey), internet user, race, marital status, child in the household, age, education, religious service attendance, household income, frequency of voting, opinion of the Tea Party (agree/disagree), whether or not they contacted an elected official in the last two years, political ideology, and statistically significant 2-way interactions ($p<.05$). The model was estimated using the respondents in the recruitment survey who were invited to join the panel. Hispanic ethnicity was excluded from the model because it was collinear with the incentive variable. Marital status and the number of adults in the household were not predictive and ultimately excluded from the model. The set of predictors considered for the model are variables that are routinely measured in surveys conducted for the Pew Research Center for the People & the Press. The significant predictors used in the final model are presented in Table 3.

The estimated propensities were used to divide cases into approximately equal size groups using the quintiles of the estimated propensity score. Quintiles have been found to be effective in capturing most of the variation. The propensity score adjustment was computed as the inverse of the active status rate in each quintile. This approach helps to protect against model misspecification, relative to using the inverse of the propensity score.

Table 3. Parameter Estimates from the Attrition Propensity Model^

Variable (reference group)	Estimate	s.e.	p-value	
Intercept	-.147	.229	.520	
Frame (landline)	.352	.046	<.001	***
Gender (male)	.159	.043	<.001	***
Internet User (non-user)	-1.117	.151	<.001	***
Race (other race)			<.01	**
White	.321	.107	<.01	**
African American	.377	.124	<.01	**
Asian	.028	.166	.865	
Multi-racial	.283	.145	.051	
Tea Party (disagree)	.269	.059	<.001	***
Contacted Elected Official (did not)	.397	.048	<.001	***
Incentive ($5 per survey)	-.438	.147	<.01	**
Voting Frequency	.141	.023	<.001	***
Age	-.017	.002	<.001	***
Education	.127	.014	<.001	***
Religious Attendance	-.049	.014	<.01	**
HH Income	-.226	.033	<.001	***
Ideology	.119	.024	<.001	***
Incentive x Age	.011	.004	<.01	**
Internet User x HH Income	.199	.034	<.001	***

*** $p<.001$, ** $p<.01$, * $p<.05$

^Variables are coded such that the model predicts active status in the panel. Positive coefficients are associated with a higher probability of being active. Negative coefficients are associated with lower probability of being active.

Calibration to Target Population Controls

In the final stage of weighting, the attrition-adjusted base weights for the panelists responding to a particular panel survey are calibrated to population benchmarks using raking, or iterative proportional fitting. This adjustment is designed to reduce the risk of nonresponse bias stemming from nonresponse at the various stages of the panel design. The raking dimensions and the source for the population parameter estimates are reported in Table 4. All raking targets are based on the non-institutionalized U.S. adult (age 18+) population.

Table 4. Raking Dimensions and Source for Population Parameter Estimates

Raking Dimension^	Source
Gender(2) x Age(6)	2012 American Community Survey
Gender(2) x Education (3)	2012 American Community Survey
Age(3) x Education(3)	2012 American Community Survey
Race/Ethnicity(4)	2012 American Community Survey
Census Region(4)	2012 American Community Survey
Population Density(5)	2010 Decennial Census
Telephone Service(3)	July -December 2013 National Health Interview Survey, projected to 2014
Internet Usage(2)	2014 Pew Typology Study
Party Affiliation(5)	Average from the three most recent monthly surveys conducted for the Pew Research Center for the People & the Press

^ The number of categories (prior to any collapsing from small cell size) are shown in parentheses.

Most of the dimensions are commonly observed in weighting protocols for general population household surveys in the US. One exception is the raking for internet usage. This is included in the algorithm so that the panel survey estimates reflect the target population with respect to the proportion of people who use the internet and the proportion who do not. The large majority of ATP interviews are completed via self-administered Web survey. There is, therefore, a concern that internet users could be over-represented in the survey estimates if this dimension is not controlled for in the raking. Currently, the estimated population parameter for the percent of U.S. adults who use the internet is 89%, based on the 2014 Typology Survey conducted for the Pew Research Center. It would have been preferable to use a large, federal in-person survey (such as ACS or CPS) to obtain this parameter estimate, but unfortunately the federal government does not routinely measure internet access from any location.[1,2]

[1] The July 2011 Current Population Survey estimated that 73% of US residents age 15 and older access the internet from some location. Given the increasing trends in internet access, particularly on mobile devices, this 2011 CPS estimate was deemed too out-of-date to be helpful in the ATP weighting.

[2] Starting in 2013 the American Community Survey is measuring internet access, but it only measures access inside the sample household. Members of the ATP are permitted to complete the surveys from any location. So the

Trimming

The distribution of the raked weights was then evaluated and checked for extreme values. For Wave 8, the weights were trimmed at the 2nd and 98th percentiles.

VI. DESIGN EFFECT AND MARGIN OF ERROR

Weighting and survey design features that depart from simple random sampling tend to result in an increase in the variance of survey estimates. This increase, known as the design effect or *deff*, should be incorporated into the margin of error, standard errors, and tests of statistical significance. The overall design effect for a survey is commonly approximated as the 1 plus the squared coefficient of variation of the weights. For this survey, the margin of error (half-width of the 95% confidence interval) incorporating the design effect for full sample estimates at 50% is ± 2.29 percentage points. Estimates based on subgroups will have larger margins of error. It is important to remember that random sampling error is only one possible source of error in a survey estimate. Other sources, such as question wording and reporting inaccuracy, may contribute additional error. A summary of the weights and their associated design effect is reported in Table 5 below.

Table 5. Design Effect and Effective Sample Size

Weight Variable	Completed Interviews	Approximate Design Effect	Effective Sample Size	Margin of Error (95% confidence level)
WEIGHT_W8	3,181	1.72	1,845	+/- 2.29

VII. DISPOSITIONS

The final dispositions and AAPOR rates from the Web and mail components are reported in Tables 6a and 6b, respectively. The response rate to Wave 8 itself was 75%. Table 7 reports the cumulative response rate for Wave 8 when all of the stages of recruitment into the panel are taken into account.

more relevant parameter for the ATP is the proportion of adults who can access the internet from any location, not just at home.

Table 6a. Final Dispositions from the Web Component of the Wave 8 Survey

Final Disposition	AAPOR Code[1]	Cases
Completed interview	1.10	2,875
Logged onto survey; broke-off	2.12	25
Logged onto survey; did not complete any items	2.1121	19
Never logged on (implicit refusal)	2.11	754
Total Panelists in Web Sample of the Wave 8 Survey		**3,673**
Completed interviews	I	2,875
Partial interviews	P	
Refusals	R	798
Non-contact	NC	
Other	O	
Unknown household	UH	
Unknown other	UO	
Not eligible	NE	
Total		**3,673**
AAPOR RR1 = I / (I+P+R+NC+O+UH+UO)		78%

Table 6b. Final Dispositions from the Mail Component of the Wave 8 Study

Final Disposition	AAPOR Code[1]	Cases
Completed mail survey during field period	1.10	306
Completed mail survey after field period	2.27	36
Refusal	2.11	1
Other: Known eligible but nothing ever returned	2.30	184
Other: Known eligible but undeliverable address	2.30	28
Total Panelists in Mail Sample of Wave 8 Study		**555**
Completed interviews	I	306
Partial interviews	P	
Refusals	R	185
Non-contact	NC	64
Other	O	
Unknown household	UH	
Unknown other	UO	
Not eligible	NE	
Total		**555**
AAPOR RR1 = I / (I+P+R+NC+O+UH+UO)		55%

[1] These codes are modified for reflect the fact that this survey was a panel survey, not an RDD survey. All sample members were eligible.

Table 7. Cumulative Response Rate

Response Rate to Recruitment Survey	11%
Percent of Recruitment Survey Respondents Who Agreed to Join the ATP, Among Those Invited	54%
Percent of Those Agreeing to Join Who Were Active Panelists at Start of Wave 8	79%
Response Rate to Wave 8 Survey	75%
Cumulative Response Rate for the Wave 8 Survey	**3%**

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Growing and Improving Pew Research Center's American Trends Panel

The panel was the main data source for most of the Center's reports on U.S. political and social attitudes and behavior in 2018

BY *Scott Keeter*

FOR MEDIA OR OTHER INQUIRIES:

Courtney Kennedy, Director of Survey Research
Scott Keeter, Senior Survey Advisor
Rachel Weisel, Communications Manager

202.419.4372

www.pewresearch.org

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Growing and Improving Pew Research Center's American Trends Panel

The panel was the main data source for most of the Center's reports on U.S. political and social attitudes and behavior in 2018

Pew Research Center's American Trends Panel (ATP) is now the Center's principal source of data for U.S. public opinion research. This nationally representative survey panel will turn 5 early this year. Since its creation in 2014, the panel has grown substantially and changed in many ways. The first cohort of recruited panelists consisted of 5,338 adults, of whom 4,266 took part in at least one survey. The average sample size of a typical wave for this cohort was just over 3,200. Following three more recruitments, the panel now has 13,569 active panelists with the most recent interview wave producing 10,618 online interviews.

This report provides a portrait of the panel as it now exists and describes how its methodology has evolved. It also discusses the ongoing challenges survey research is facing and how the American Trends Panel and other surveys are dealing with them.

Why a survey panel?

For several decades, most political and social surveys of the U.S. general public were conducted by telephone. In the vast majority of these, respondents were interviewed only once. But changing social and communications habits and the growth of privacy concerns have caused phone survey response rates to decline. Despite this, telephone surveys continue to provide accurate data, a point reinforced by the generally good performance of election polls conducted by phone in the 2018 midterm elections. That said, declining response rates and the shift from landlines to cellphones has led to dramatic increases in the cost of conducting high-quality telephone surveys.

While these changes were occurring, other trends were making self-administered surveys – and online surveys in particular – more appealing. Internet access was expanding, smartphone use was growing, and survey methodologists were demonstrating the measurement advantages of self-administration for surveys. The number of surveys conducted online boomed over the past two decades as businesses moved most of their market research to the web and academic users found the combination of low cost and ease of experimentation very appealing.

These trends led to a revival of interest in survey panels – a set of respondents who agree to take repeated interviews over time, thus reducing the need to sample, contact and persuade new respondents each time new data are needed. Panels are hardly a recent invention, but there has

been a relatively recent growth in demand for high-quality *online* panels that use random samples. It was in this context that Pew Research Center decided to create the American Trends Panel in 2014.

Panels have many attractive characteristics when compared with survey designs that conduct only one interview with a sampled individual. Most notable is cost. Panels are expensive to build and properly maintain but, over time, yield interviews that are significantly cheaper than one-off surveys. Survey participation rates among active panelists are quite high (nearly 80%, on average, among ATP members), meaning that less effort is expended in obtaining a desired sample size. But the benefits of survey panels extend far beyond cost.

Because the same individuals are participating in multiple surveys over time, researchers can assemble a sizable amount of information about each person. Once a profile of each panelist's attitudinal, social, demographic and political characteristics has been collected, subsequent surveys need not ask many of these questions again. This frees up questionnaire space for the more substantive questions of interest to researchers, as well as creates a rich and multidimensional portrait of each panelist. Because people tend to remain in panels for a long time (more than half of those who took part in an American Trends Panel survey in 2014 are still actively taking surveys four years later) it is possible to track individual-level change over time in behaviors and attitudes like opinions of the president.

Methods

The design of the American Trends Panel, like all surveys, involved numerous trade-offs. A popular joke in the survey research profession says that three things are valued above all: quality, speed and affordability. The punchline is that you can have any two of three that you want. The ATP is not immune to this problem.

It's not quite as bad as that in practice, but the fact of trade-offs is real. Fast data collection often means sacrificing some representativeness in the sample. Hard-to-reach and hard-to-interview respondents can be located and persuaded to cooperate (thus improving the representativeness of the sample), but that's often at considerable effort, time and cost. Resources devoted to reducing error in one aspect of a survey often means fewer resources can be devoted to some other aspect. Researchers at the Center constantly faced these issues as the ATP was built and as it has evolved.

The principal goal of the ATP was to provide a reliable, representative sample of adult Americans for the research needs of Pew Research Center. When it was created in 2014, it was seen as providing a supplement to the telephone surveys that were the core methodology being used for

the Center's U.S.-based political and social research. As telephone surveys have gotten more difficult and expensive to conduct, the panel has gradually become the primary data collection method for this research. It was the principal source of data for a majority of the Center's reports about U.S. political and social attitudes and behavior in 2018. That transformation required that the panel grow in size, provide faster turnaround and improve its ability to represent the population accurately.

What follows is a description of the choices, decisions and results for each major aspect of building and operating the panel: recruitment, data collection, maintenance, weighting and costs.

Recruitment

Recruitment to the ATP has been conducted four times (2014, 2015, 2017 and 2018).[1] Invitations to potential panelists for the first two recruitments were made at the end of large and lengthy random-digit-dial (RDD) telephone surveys that dealt primarily with political topics. In planning the third recruitment, researchers decided to use a shorter custom RDD telephone survey that had little political content because of concerns that using a survey focused on politics increased the likelihood that the panel would be biased toward people who are especially interested in politics.

For the most recent recruitment, researchers decided to abandon the telephone altogether and shift to an address-based sample (ABS) of households selected from the U.S. Postal Service's Delivery Sequence File (DSF). A much higher share of those who responded to the mail-based recruitment survey agreed to join the panel than was the case for the three phone-based recruitments; 94% of those who completed the screening survey joined the panel, compared with about 50%, on average, from the three phone recruitments.

In addition, compared with the earlier panel cohorts, a much higher share of those who joined in the fourth recruitment have taken the regular surveys than was the case for those who joined after a phone recruitment. In the three telephone recruitments, a sizable share of those who agreed to join the panel never participated in a regular panel wave. By contrast, a far higher share of those in the fourth recruitment who agreed to join the panel have taken at least one of the available surveys.

[1] For details about the design and results of the initial recruitment, see "Building Pew Research Center's American Trends Panel."

The first three recruitments used dual-frame stratified RDD samples, with cellphone-to-landline ratios that were standard at Pew Research Center at the time of the data collection (50%-50% in 2014, 65%-35% in 2015 and 75%-25% in 2017).

For the 2018 ABS recruitment, the sample was designed to offset the somewhat lower response rates among Hispanics and African-Americans and to ensure adequate sample sizes of young adults. To achieve this goal, the sample was stratified using Census data and other information appended to the DSF, and households believed to belong to the targeted categories were sampled at a higher rate than others.

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	2,515
Aug. 27 to Oct. 4, 2015	Landline/ cell RDD	6,004	2,976	1,471
April 25 to June 4, 2017	Landline/ cell RDD	3,905	1,628	806
Aug. 8, 2018–Oct. 31, 2018	ABS/web	9,396	8,778	8,777
	Total	**29,114**	**18,720**	**13,569**

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 number of active panelists in this table reflects the state of the panel on Dec. 31, 2018.
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The mailings in the fourth recruitment included a letter of introduction inviting recipients (and specifically, the adult in the household with the next upcoming birthday) to take the online survey, information about how to take the survey, $2 in cash as a pre-incentive and a promise of a $10 post-incentive for completing the survey. At the end of the survey, respondents were invited to join the panel.

Recruiting non-internet households

There is an obvious obstacle to achieving a nationally representative sample with an online survey: not everyone in the U.S. uses the internet. The share of adults who do not use the internet was estimated to be 11% in 2018. And while this is a relatively small group, its members are quite different demographically from those who go online. Accordingly, it is important to represent them in the panel. In its first two years, the ATP did so by providing the non-internet respondents with a paper questionnaire that they could return by mail. This approach meant that both the online and mail respondents were using a self-administered survey (as opposed to interviewing the non-internet group by telephone). But this approach had serious drawbacks. Many of the advantages of online administration, such as the ability to use automatic skipping of questions and branching in the questionnaire (asking different questions of different respondents based on

answers to previous questions), were impossible to replicate in the mail instrument. The mail questionnaire limited the number of different forms (or versions) of the questionnaire that could be employed. And producing a separate questionnaire and processing the mailings and returns required substantial administrative effort, as well as extending the time required to collect the data.

As a result of these issues, researchers made an effort in 2016 to convert the mail panelists to the web by supplying them with tablets, internet access and technical support. While two-thirds of the panelists taking surveys by mail at the time agreed to be converted to web, only 41% of the 574 actually followed through and began taking surveys on their tablets by the end of the year. A comparison of those who converted and those who did not showed – perhaps unsurprisingly – that age was a strong predictor of conversion. While half of those ages 50 to 64 (53%) converted, only 32% of those 65 and older did so. Education, sex, income and political engagement were not significant predictors of who would convert.

The third and fourth recruitments offered free tablets and internet service to all respondents who wanted to join the panel but lacked home internet access. A total of 125 tablet panelists were added in these recruitments, bringing the total number to 275, or 2% of all active panelists.

The underrepresentation of non-internet households remains a challenge for the ATP. Though they are a relatively small share of the adult population, these households are demographically quite different from those who do have home internet access. Nearly half of those in the panel without internet access are ages 65 and older, about six-in-ten have only a high school education or less and nearly half are nonwhite.

Interviewing

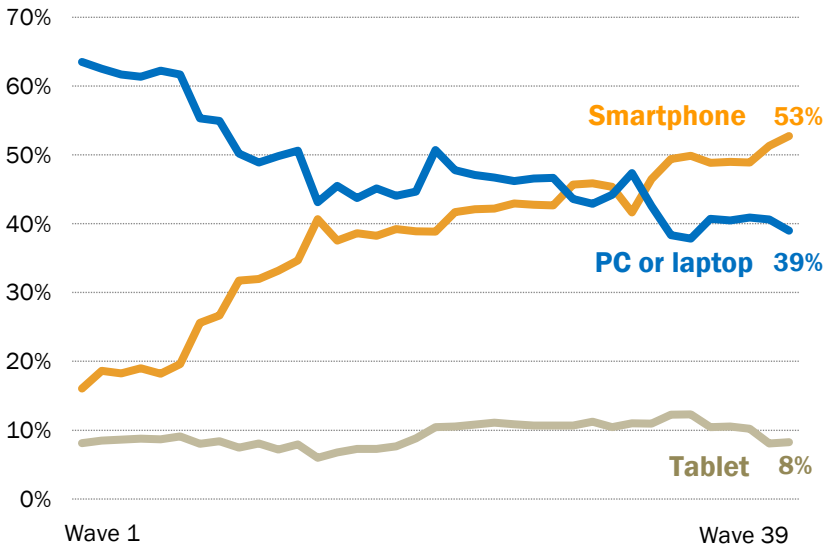
Panelists typically take at least one survey each month. The newly expanded panel makes it possible to conduct more than one survey per month by subsampling from the larger pool of panelists, but the volume of surveys may grow enough so that many panelists will be asked to complete two surveys in a month. This is still, by design, less frequent than many other probability-based panels in the U.S.

ATP panelists receive a survey invitation by email or text message if they have consented. Those who have been provided tablets are invited by text messages sent directly to their devices and are also sent a postcard informing them that a survey is ready. Panelists can access the survey online via the invitation. The survey is available to the panelist for approximately two weeks, and panelists can start the survey, pause, and return to it hours or days later if they choose.

When the panel began, nearly two-thirds of respondents took their surveys on a PC or laptop. That share declined quickly through 2014 and 2015 and has continued to gradually decline since then. In a November 2018 wave of the panel, just over half of the interviews were conducted on a smartphone, while 39% used a PC or laptop. About 8% took the survey on a tablet computer, a figure that has remained fairly stable since the panel was created.

Half of panel interviews are now conducted on a smartphone

% of interviews conducted on each device



Source: American Trends Panel waves, March 2014-November 2018.
"Growing and Improving Pew Research Center's American Trends Panel"

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Sampling for panel waves

The vast majority of panel waves conducted between 2014 and 2018 invited all active panelists to participate. In a late 2018 wave, 78% of panelists invited to take the survey did so, which is similar to the median completion rate for the ATP. Now that the panel has more than 10,000 members, full-panel surveys will become less common. Most studies at Pew Research Center do not require such large sample sizes. Thus, one of the benefits of the large panel is the ability to conduct surveys more frequently by subsampling so that the same individuals are not asked to take part too frequently. Prospective panelists are told during the recruitment process that they will be asked to take surveys "about once or twice a month."

Another benefit of subsampling is that samples can be tailored to be more representative of the public. As noted earlier, like most surveys, the panel has a disproportionately large number of certain kinds of people (e.g., college-educated individuals) and too few of others (e.g., young adults). Subsamples can be crafted to minimize these biases by undersampling certain groups and oversampling others. Doing so produces a sample that requires less aggressive weighting to align it with the population and, thus, a larger effective sample size. A recent subsampled wave produced an average design effect of 1.65, compared with typical design effects (at the time) of around 2.5 or higher for full sample waves.[2]

Weighting

A survey sample is a model of the population of interest. For the ATP, the population of interest is noninstitutionalized adults 18 and older living in the U.S. (50 states and the District of Columbia). Inevitably, survey samples will be imperfect models of the population. But they can be adjusted to better match the population through the process of weighting, which aligns characteristics of the sample to known population parameters.

Surveys like the ATP are typically weighted on demographic characteristics that are known to be associated with survey noncoverage and nonresponse or are related to important measures and concepts in the survey. They also are weighted to adjust for aspects of the sample design, such as the intentional oversampling or undersampling of certain kinds of individuals. The weighting of the ATP is very similar to that used in many types of U.S. political and social surveys but also has several unique elements that have been added to improve the accuracy of the data.

[2] The design effect is a measure of the impact of the sample design and survey weighting on the precision of estimates in the survey. Generally speaking, weighting to correct for sample design features (such as oversampling of certain groups) or nonresponse bias reduces the precision of the survey and is reflected in a larger design effect.

Base weighting

Since its inception, the ATP has been weighted in a multistep process that begins with a base weight incorporating the respondents' recruitment survey selection probability and the fact that some respondents were subsampled for invitation to the panel (in 2014 and again in 2017). Components of the base weight included information about the telephone sampling frames (for the three cohorts recruited by phone) and any relevant subsampling. Between 2014 and 2017, a second step computed a propensity score to adjust for differential nonresponse to the invitation to join the panel. This step has been discontinued, both because it was judged to provide little if any additional bias correction and because the fourth recruitment did not employ a telephone survey. Details on how the propensity adjustment was computed can be found here.

Iterative proportional fitting, or "raking"

The final step in the weighting uses an iterative technique that aligns the sample to population benchmarks on a variety of characteristics. This stage of weighting, often referred to as "raking," uses demographic characteristics that are reliably measured by the American Community Survey, including gender, age, education and race. Among Hispanics, the raking adjusts for place of birth (U.S. vs. elsewhere). Researchers have found that this helps correct for the underrepresentation of Hispanics who are immigrants. Two geographic variables used in the raking are U.S. Census region (four categories) and metropolitan status. The weighting also adjusts for internet access, using a measure from the American Community Survey. Party affiliation is also included in the raking to ensure proper representation of adults across the political spectrum. There is no official national parameter for party affiliation. Moreover, because it is an attitude rather than a demographic characteristic, it can change in response to political events. Accordingly, the target for party affiliation in the ATP is based on an average of the three most recent Pew Research Center telephone surveys that asked about party affiliation.

Weighting dimensions

Variable	Benchmark source
Age by gender Age by education Education by gender Race/ethnicity by education (including nativity among Hispanics)	2017 American Community Survey
Region x Metropolitan status	2018 CPS March Supplement
Volunteerism	2015 CPS Volunteer Supplement
Voter registration	2016 CPS Voting and Registration Supplement
Party affiliation	Average of the three most recent Pew Research Center telephone surveys.
Internet access	2017 American Community Survey

Note: Estimates from the ACS are based on non-institutionalized adults. Voter registration is calculated using procedures from Hur and Achen (2013) and rescaled to include the total US adult population.
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Correcting for the overrepresentation of civic and political engagement

Social and political surveys are known to overrepresent people who are politically engaged and who take part in volunteer activities. The American Trends Panel is no exception to this phenomenon. Because the panel is often used to study topics related to political and civic engagement, researchers decided to add volunteer activity as a raking variable in early 2016. A reliable national parameter is available because volunteering is measured regularly on the Current Population Survey's Civic Engagement Supplement. Previous research by Pew Research Center showed that correcting for the bias in volunteer activity has almost no effect on measures of public opinion but does reduce reported levels of social activity and community involvement such as talking with neighbors or attending religious services.

Bias in political engagement is somewhat more complicated. While adding volunteering to the weighting helps to reduce the overrepresentation of the politically engaged, it does not eliminate the bias completely. A first step at addressing this was taken in 2017 with the third recruitment to the ATP. Rather than appending the recruitment to a survey focused mostly on politics (as the first two recruitments did), a dedicated recruitment survey with relatively little political content (and considerably fewer questions) was used.

This change resulted in a recruitment cohort that was approximately 10 percentage points less likely to be registered to vote than the first two cohorts. But the share who are registered remained somewhat higher than the true population value. Researchers decided to add voter registration to the raking, starting with the first wave after the summer 2018 refreshment was completed (November 2018). The parameter for this variable was taken from the 2016 Current Population Survey Voting and Registration Supplement, adjusted for actual turnout as described by Hur and Achen (2013) and implemented by Michael McDonald.

Who's in the panel?

The panel contains a broad cross-section of the U.S. adult population. Fully one-quarter of panelists are nonwhite, one-in-five have family incomes below $30,000 and nearly half are under the age of 50. But the sample reflects shortcomings that are typical of public opinion surveys. Nonwhites, people under 30, Spanish-speaking Hispanics and people with only a high school education or less are underrepresented, while registered voters, non-Hispanic whites and college graduates are overrepresented. Higher incentives to young people, minorities, the less-educated and the politically disengaged help to keep these harder-to-survey groups participating but does not completely solve the problem. Weighting (discussed above) addresses the demographic imbalances in the sample for variables that are used in the weighting and mitigates the bias in many other variables such as attendance at religious services and interest in politics.

Demographic and political composition of the panel

%

	Weighted	Unweighted
Male	48	44
Female	52	56
18-29	21	13
30-49	33	34
50-64	26	30
65+	20	23
White	64	73
Black	11	9
Hispanic	15	10
Other	8	7
College grad	31	53
Some college	32	31
HS or less	37	15
$75,000 or more	32	44
$30,000-$74,999	33	33
Less than $30,000	30	19
Republican/lean Rep	43	41
Democrat/lean Dem	52	56
No lean	5	4
Certain registered to vote	68	83
Probably registered	8	5
Not registered	17	9

Source: American Trends Panel wave conducted Nov. 7-16, 2018. "Growing and Improving Pew Research Center's American Trends Panel"

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Costs

While the exact cost of Pew Research Center's surveys is confidential, it is possible to describe the *relative* costs of various data collection methods. The American Trends Panel required a large initial investment to create its management and data infrastructure. The four recruitments conducted since early 2014 were also expensive, though the first two took advantage of some cost savings since the recruitment request was appended to the end of a telephone survey that was funded for a different purpose. The third and fourth recruitments were conducted primarily for recruitment to the panel. Collectively, the recruitment costs are a part of what might be described as the total cost of ownership of the panel. Adding to the overall cost is the migration of mail mode panelists to tablet computers in 2016 and the cost of providing tablets to new recruits in 2017 and 2018.

Conducting each wave of the panel incurs additional vendor costs in management, programming, data collection, respondent incentives and data processing. There are also expenses associated with the ongoing management and maintenance of the panel, including keeping track of panelists as they move, responding to questions and inquiries from panelists, paying the cellular plan costs for the panelists who were provided a tablet and providing technical support to these panelists.

Considering the full costs of panel creation, recruitment, management and maintenance, plus survey-specific expenses, a 15-minute panel interview is considerably less expensive than a dual-frame RDD interview with the same substantive content. Even with the survey-specific and ongoing management and maintenance expenses, interviewing a large panel sample online is inherently less costly than either a telephone survey (because of the cost of interviewing) or a one-time online survey (because the full costs of sampling and contacting potential respondents is incurred). Over time, panel interviews become less expensive as the sunk costs are spread across a larger number of interviews. The longer a panel member is in a panel, the less expensive they become on cost-per-complete basis.

Contractors

Pew Research Center works with Ipsos, an international market and opinion research organization, to recruit panelists, manage the panel and conduct the surveys. Ipsos also manages KnowledgePanel, a very large probability-based online panel similar to the American Trends Panel. Ipsos is the third contractor to work with Pew Research Center on the project. Abt Associates assisted Pew Research Center in designing and building the panel in 2014. They managed the panel until December 2017, when GfK was hired to do this work. GfK was acquired by Ipsos in October 2018. All of the GfK key staff working on the ATP remained in their same roles at Ipsos.

Acknowledgements

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This report is a collaborative effort based on the input and analysis of the following individuals:

Research team

Scott Keeter, *Senior Survey Advisor*
Nick Bertoni, *Panel Manager*
Courtney Kennedy, *Director, Survey Research*
Nick Hatley, *Research Analyst*
Andrew Mercer, *Senior Research Methodologist*
Arnold Lau, *Research Analyst*
Claudia Deane, *Vice President of Research*

Communications and editorial

Rachel Weisel, *Communications Manager*
Hannah Klein, *Communications Associate*
Travis Mitchell, *Digital Producer*
David Kent, *Copy Editor*

Graphic design and web publishing

Bill Webster, *Information Graphics Designer*

Appendix D: Sources and details for benchmarks

Topic: Civic engagement

Benchmark item	Source	Question text	Response category	Benchmark estimate (%)	Notes
Talked with neighbors	CPS Civic Engagement Supplement (Nov 2013)	During a typical month in the past year, how often did you talk with any of your neighbors?	Basically every day	12.1	
			A few times a week	28.9	
			A few times a month	21.6	
			Once or less than once a month	19.5	
			Not at all	12.3	
Trusts neighbors	CPS Civic Engagement Supplement (Nov 2013)	How much do you trust the people in your neighborhood? In general, do you trust …	All of the people in your neighborhood	13.7	
			Most of the people in your neighborhood	37.3	
			Some of the people in your neighborhood	33.2	
			None of the people in your neighborhood	8.6	
Participated in a school group, neighborhood, or community association	CPS Civic Engagement Supplement (Nov 2013)	In the last 12 months, that is since June 2015, have you participated in a school group, neighborhood, or community association such as PTA or neighborhood watch group?	Yes	13.7	
			No	82.1	
Volunteered	CPS Volunteer Supplement (Sep 2015)	In the last 12 months, that is since June of last year, have you done any volunteer activities through or for an organization? Sometimes people don't think of activities they do infrequently or activities they do for children's schools or youth organizations as volunteer activities. Since June of last year, have you done any of these types of volunteer activities?	Yes	24.8	The variable used to produce this estimate is a recode of two Yes/No questions from the CPS. The second question clarifies the definition of 'volunteer activities' and is asked if respondents skipped or answered no to the first question.
			No	75.0	

"For Weighting Online Opt-In Samples, What Matters Most?"

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Topic: Financial

Benchmark item	Source	Question text	Response category	Benchmark estimate (%)	Notes
Employment status	General Social Survey (2016)	Last week, were you working full time, part time, going to school, keeping house, or what?	Working full time	47.2	
			Working part time	13.2	
			With a job, but not at work because of temporary illness, vacation, strike	1.9	
			Unemployed, laid off, looking for work	4.2	
			Retired	17.0	
			In school	3.2	
			Keeping house	10.3	
Home ownership	American Community Survey (2015)	Is your house, apartment, or mobile home ...	Owned by you or someone in this household with a mortgage or loan.	43.1	On the ACS, this question was not asked of people who lived in non-institutional group quarters (such as dormitories).
			Owned by you or someone in this household free and clear	22.2	
			Rented	31.4	
			Occupied without payment of rent	1.6	
Family income	CPS Annual Social and Economic Supplement (Mar 2016)	Which category represents the total combined income of all members of your FAMILY during the past 12 months? This includes money from jobs, net income from business, farm or rent, pensions, dividends, interest, social security payments and any other money income received by members of your family who are 15 years of age or older.	Less than $5,000	2.6	
			$5,000 to $7,499	1.4	
			$7,500 to $9,999	1.9	
			$10,000 to $12,499	2.5	
			$12,500 to $14,999	2.5	
			$15,000 to S19,999	3.9	
			$20,000 to $24,999	5.1	
			$25,000 to $29,999	5.4	
			$30,000 to $34,999	5.5	
			$35,000 to $39,999	5.1	
			$40,000 to $49,999	8.6	
			$50,000 to $59,999	8.3	
			$60,000 to $74,999	10.4	
			$75,000 to $99,999	12.5	
			$100,000 to $149,999	13.0	
			$150,000 to more	11.2	

"For Weighting Online Opt-In Samples, What Matters Most?"

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Topic: Financial (continued)

Benchmark item	Source	Question text	Response category	Benchmark estimate (%)	Notes
Food stamps	CPS Annual Social and Economic Supplement (Mar 2016)	Did anyone in your household get food stamps or use a food stamp benefit card at any time during 2015? *Do not include WIC benefits.*	Yes	10.6	
			No	89.4	
Health insurance	National Health Interview Survey (2015)	Are you covered by any kind of health insurance or some other kind of health care plan? Include health insurance obtained through employment or purchased directly as well as government programs like Medicare and Medicaid that provide medical care or help pay medical bills.	Yes	89.0	
			No	10.4	

"For Weighting Online Opt-In Samples, What Matters Most?"

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Topic: Family

Benchmark item	Source	Question text	Response category	Benchmark estimate (%)	Notes
Marital status	American Community Survey (2015)	What is your marital status?	Now married	50.5	
			Widowed	5.9	
			Divorced	11.5	
			Separated	2.1	
			Never married	30.0	
Children in household	American Community Survey (2015)	And how many children younger than 18 years of age live in your household?	No children	65.0	This figure is calculated by counting the number of children under 18 in each ACS household.
			One or more children	35.0	
Household size	American Community Survey (2015)	N/A	1	15.2	This figure is calculated by adding the number of adults in each ACS household to the number of children under 18 in each ACS household.
			2	32.9	
			3+	51.9	

"For Weighting Online Opt-In Samples, What Matters Most?"

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Topic: Personal

Benchmark item	Source	Question text	Response category	Benchmark estimate (%)	Notes
Lived in house or apartment one year ago	American Community Survey (2015)	Did you live in your house or apartment one year ago?	Same house	85.7	
			Different house in US	13.6	
			Different house outside US	0.7	
Active duty military service	American Community Survey (2015)	Have you ever served on active duty in the U.S. Armed Forces, Reserves, or National Guard?	Have been on active duty	8.0	The variable used to produce this estimate is a recode that collapses people who are currently on active duty and people who were on active duty in the past, and does not consider Reserves or National Guard as active duty.
			Have never been on active duty	92.0	
U.S. citizenship	American Community Survey (2015)	Are you a citizen of the United States?	Yes, a U.S. citizen	91.6	
			No, not a U.S. citizen	8.4	
Gun ownership	General Social Survey (2016)	Do you happen to have in your home or garage any guns or revolvers?	Yes	31.7	
			No	65.4	
Smoking	National Health Interview Survey (2015)	Have you smoked at least 100 cigarettes in your ENTIRE LIFE?	Smoke every day	11.4	The variable used to produce this estimate collapses two questions from the NHIS.
			Smoke some days	3.7	
		Do you NOW smoke cigarettes every day, some days, or not at all?	No longer smoke	21.8	
			Have never smoked	62.8	
Food allergies	National Health and Nutrition Examination Survey (2007)	Do you have any food allergies?	Yes	10.0	The NHANES 2007 was used due to this question not having been asked in NHANES 2016.
			No	89.8	

"For Weighting Online Opt-In Samples, What Matters Most?"

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Topic: Political engagement

Benchmark item	Source	Question text	Response category	Benchmark estimate (%)	Notes
Voted in 2012	CPS Voting and Registration Supplement (Nov 2012)	In the 2012 presidential election between Barack Obama and Mitt Romney, did things come up that kept you from voting, or did you happen to vote?	Voted	50.2	These estimates use the adjustment recommended in Hur and Achen (2013) to correct for bias resulting from the fact that item nonrespondents are treated as not having voted in the CPS. Adjustment factors for 2012 can be found at: http://www.electproject.org/home/voter-turnout/cps-methodology These estimates are further adjusted to approximate the percentage of adults in 2016 who voted in 2012. The adjustment was done by using the ACS to break out the total adult population in 2016 by citizenship, age group and race. Each break was then multiplied by the probability that said group voted 4 years ago (in 2012), obtained from the CPS. Finally, the breaks were added together to get estimates of voting in 2012 for the total 2016 adult population.
			Did not vote (includes too young to vote)	49.8	
Voted in 2014	CPS Voting and Registration Supplement (Nov 2014)	In the 2014 midterm election, did things come up that kept you from voting, or did you happen to vote?	Voted	32.7	These estimates are adjusted to correct for item nonresponse bias and to approximate the percentage of adults in 2016 who voted in 2014, as described in the notes for the 'Voted in 2012' benchmark estimate.
			Did not vote (includes too young to vote)	67.3	
Contacted or visited a public official	CPS Civic Engagement Supplement (Nov 2013)	In the past 12 months, that is since June 2015, have you contacted or visited a public official—at any level of government—to express your opinion?	Yes	11.2	
			No	85.1	

"For Weighting Online Opt-In Samples, What Matters Most?"

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Topic: Technology

Benchmark item	Source	Question text	Response category	Benchmark estimate (%)	Notes
Tablet use	CPS Computer and Internet Use Supplement (July 2015)	Do you use a tablet or e-book reader?	Yes	37.4	
			No	62.6	
Texting or instant messaging	CPS Computer and Internet Use Supplement (July 2015)	What about texting or instant messaging? Do you use a texting or instant messaging service?	Yes	82.4	
			No	17.6	
Social networking	CPS Computer and Internet Use Supplement (July 2015)	What about social networking? Do you use social networks such as Facebook or Twitter?	Yes	67.5	
			No	32.5	

"For Weighting Online Opt-In Samples, What Matters Most?"

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Truncated Variable Names (SPSS portable file)

Abbreviated Name	Extended Name
APP_TO_W	APP_TO_WEB_W8
ASKEARLY	ASKEARLY1_W8
CONTACT1	CONTACT1_W8
CONWHO_A	CONWHO_A_W8
CONWHO_B	CONWHO_B_W8
CONWHO_C	CONWHO_C_W8
CONWHO_D	CONWHO_D_W8
CONWHO_E	CONWHO_E_W8
CONWHORE	CONWHOREF_W8
EARLY1_W	EARLY1_W8
EXGRPCT_	EXGRPCT_W8
EXPECT_W	EXPECT_WAIT_W8
EXPERI_1	EXPERIMENTAL_GROUP_ORG_W8
EXPERIME	EXPERIMENTAL_GROUP_W8
EXPS_A_W	EXPS_A_W8
EXPS_B_W	EXPS_B_W8
EXPS_C_W	EXPS_C_W8
EXPS_D_W	EXPS_D_W8
EXPS_E_W	EXPS_E_W8
EXPS_F_W	EXPS_F_W8
EXPS_G_W	EXPS_G_W8
EXPSREF_	EXPSREF_W8
F_AGECAT	F_AGECAT_TYPOLOGY
F_ATTEND	F_ATTEND_TYPOLOGY
F_BORN_T	F_BORN_TYPOLOGY
F_CITIZE	F_CITIZEN_RECODE_TYPOLOGY
F_CREGIO	F_CREGION_FINAL
F_EDUCCA	F_EDUCCAT_TYPOLOGY
F_HISP_T	F_HISP_TYPOLOGY
F_IDEO_T	F_IDEO_TYPOLOGY
F_IDEOCO	F_IDEOCONSISTREC_TYPOLOGY
F_INCO_1	F_INCOME_RECODE_TYPOLOGY
F_INCOME	F_INCOME_TYPOLOGY
F_INSURA	F_INSURANCE_FINAL
F_INTUSE	F_INTUSER_FINAL
F_MARITA	F_MARITAL_TYPOLOGY
F_PARTY_	F_PARTY_TYPOLOGY
F_PARTYL	F_PARTYLN_TYPOLOGY
F_PARTYS	F_PARTYSUM_TYPOLOGY
F_RACECM	F_RACECMB_TYPOLOGY
F_RACETH	F_RACETHN_TYPOLOGY
F_REG_FI	F_REG_FINAL

F_RELIG_	F_RELIG_TYPOLOGY
F_SEX_FI	F_SEX_FINAL
FOLLOW_U	FOLLOW_UP_W8
MAX_WAIT	MAX_WAIT_W8
NEW_Devi	NEW_Device_Type_W8
PGENERAL	PGENERAL_W8
POL1AGR_	POL1AGR_W8
POL1DIS_	POL1DIS_W8
POLL_LOC	POLL_LOCATION_W8
PRIMARY_	PRIMARY_COMPARE_W8
PRIMARY1	PRIMARY14_W8
REGSTA_1	REGSTATUSO_W8
REGSTATU	REGSTATUS_W8
REQUEST_	REQUEST_W8
SEARCH_1	SEARCHWHAT_B_W8
SEARCH_2	SEARCHWHAT_D_W8
SEARCH_3	SEARCHWHAT_E_W8
SEARCH_4	SEARCHWHAT_F_W8
SEARCH_5	SEARCHWHAT_G_W8
SEARCH_6	SEARCHWHATREF_W8
SEARCH_7	SEARCHRULES_B_W8
SEARCH_8	SEARCHRULES_C_W8
SEARCH_9	SEARCHRULESREF_W8
SEARCH_W	SEARCH_W8
SEARCHRU	SEARCHRULES_A_W8
SEARCHWH	SEARCHWHAT_A_W8
SMARTPHO	SMARTPHONE_W8
UPDATE_W	UPDATE_W8
VOTE_LAT	VOTE_LATER_W8
VOTE_TIM	VOTE_TIME_W8
WEIGHT_W	WEIGHT_W8

Data Locations (ASCII file)

Variable	Rec	Start	End	Format
QKEY	1	1	6	F6.0
NEW_Device_Type_W8	1	7	14	F8.0
LANG_W8	1	15	16	F2.0
FORM_W8	1	17	18	F2.0
POL1_W8	1	19	26	F8.0
POL1AGR_W8	1	27	34	F8.0
POL1DIS_W8	1	35	42	F8.0
POL2_W8	1	43	50	F8.0
POL3_W8	1	51	58	F8.0
POL4_W8	1	59	66	F8.0
POL5_W8	1	67	74	F8.0
POL5A_W8	1	75	82	F8.0
POL6_W8	1	83	90	F8.0
POL7_W8	1	91	98	F8.0
POL8_W8	1	99	106	F8.0
POL9_W8	1	107	114	F8.0
POL10_W8	1	115	122	F8.0
PRIMARY_COMPARE_W8	1	123	130	F8.0
REGSTATUS_W8	1	131	138	F8.0
REGSTATUSO_W8	1	139	146	F8.0
UPDATE_W8	1	147	154	F8.0
PRIMARY14_W8	1	155	162	F8.0
PGENERAL_W8	1	163	170	F8.0
PLAN2_W8	1	171	178	F8.0
REQUEST_W8	1	179	186	F8.0
ASKEARLY1_W8	1	187	194	F8.0
EARLY1_W8	1	195	202	F8.0
POLL_LOCATION_W8	1	203	210	F8.0
VOTE_TIME_W8	1	211	218	F8.0
VOTE_LATER_W8	1	219	226	F8.0
EXPECT_WAIT_W8	1	227	234	F8.0
MAX_WAIT_W8	1	235	242	F8.0
CONTACT1_W8	1	243	250	F8.0
CONWHO_A_W8	1	251	258	F8.0
CONWHO_B_W8	1	259	266	F8.0
CONWHO_C_W8	1	267	274	F8.0
CONWHO_D_W8	1	275	282	F8.0
CONWHO_E_W8	1	283	290	F8.0
CONWHOREF_W8	1	291	298	F8.0
SEARCH_W8	1	299	306	F8.0
SEARCHWHAT_A_W8	1	307	314	F8.0
SEARCHWHAT_B_W8	1	315	322	F8.0

SEARCHWHAT_D_W8	1	323	330	F8.0
SEARCHWHAT_E_W8	1	331	338	F8.0
SEARCHWHAT_F_W8	1	339	346	F8.0
SEARCHWHAT_G_W8	1	347	354	F8.0
SEARCHWHATREF_W8	1	355	362	F8.0
SEARCHRULES_A_W8	1	363	370	F8.0
SEARCHRULES_B_W8	1	371	378	F8.0
SEARCHRULES_C_W8	1	379	386	F8.0
SEARCHRULESREF_W8	1	387	394	F8.0
SMARTPHONE_W8	1	395	402	F8.0
COST1_W8	1	403	410	F8.0
COST2_W8	1	411	418	F8.0
COST3_W8	1	419	426	F8.0
COMP_W8	1	427	434	F8.0
TAB_W8	1	435	442	F8.0
SM1_W8	1	443	450	F8.0
SM2_W8	1	451	458	F8.0
SM3A_W8	1	459	466	F8.0
SM3B_W8	1	467	474	F8.0
SM3C_W8	1	475	482	F8.0
SM3D_W8	1	483	490	F8.0
SM3E_W8	1	491	498	F8.0
SM3F_W8	1	499	506	F8.0
EXPS_A_W8	1	507	514	F8.0
EXPS_B_W8	1	515	522	F8.0
EXPS_C_W8	1	523	530	F8.0
EXPS_D_W8	1	531	538	F8.0
EXPS_E_W8	1	539	546	F8.0
EXPS_F_W8	1	547	554	F8.0
EXPS_G_W8	1	555	562	F8.0
EXPSREF_W8	1	563	570	F8.0
BANK_W8	1	571	578	F8.0
SM4A_W8	1	579	586	F8.0
SM4B_W8	1	587	594	F8.0
SM4C_W8	1	595	602	F8.0
SM4D_W8	1	603	610	F8.0
SM4E_W8	1	611	618	F8.0
SM4F_W8	1	619	626	F8.0
SM4G_W8	1	627	634	F8.0
SM5A_W8	1	635	642	F8.0
SM5B_W8	1	643	650	F8.0
SM5C_W8	1	651	658	F8.0
SM6A_W8	1	659	666	F8.0
SM6B_W8	1	667	674	F8.0
SM6C_W8	1	675	682	F8.0
SM6D_W8	1	683	690	F8.0

SM7_W8	1	691	698	F8.0
EMER1_W8	1	699	706	F8.0
PROB1_W8	1	707	714	F8.0
SM8A_W8	1	715	722	F8.0
SM8B_W8	1	723	730	F8.0
SM8C_W8	1	731	738	F8.0
SM8D_W8	1	739	746	F8.0
SM8E_W8	1	747	754	F8.0
EXGRPCT_W8	1	755	762	F8.0
EXPERIMENTAL_GRO UP_W8	1	763	770	F8.0
EXPERIMENTAL_GRO UP_ORG_W8	1	771	778	F8.0
FOLLOW_UP_W8	1	779	786	F8.0
APP_TO_WEB_W8	1	787	794	F8.0
KHJ1_W8	1	795	802	F8.0
KHJ2A_W8	1	803	810	F8.0
KHJ2B_W8	1	811	818	F8.0
KHJ3_W8	1	819	826	F8.0
KHJ4A_W8	1	827	834	F8.0
KHJ4B_W8	1	835	842	F8.0
KHJ5_W8	1	843	850	F8.0
KHJ6_W8	1	851	858	F8.0
KHJ7A_W8	1	859	866	F8.0
KHJ7B_W8	1	867	874	F8.0
KHJ8_W8	1	875	882	F8.0
KHJ9_W8	1	883	890	F8.0
KHJ10_W8	1	891	898	F8.0
Q27_W8	1	899	906	F8.0
Q28_W8	1	907	914	F8.0
Q29_W8	1	915	922	F8.0
F_CREGION_FINAL	1	923	930	F8.0
F_AGECAT_TYPOLOG Y	1	931	938	F8.0
F_SEX_FINAL	1	939	946	F8.0
F_EDUCCAT_TYPOLO GY	1	947	954	F8.0
F_HISP_TYPOLOGY	1	955	962	F8.0
F_RACECMB_TYPOLO GY	1	963	970	F8.0
F_RACETHN_TYPOLO GY	1	971	972	F2.0
F_CITIZEN_RECODE _TYPOLOGY	1	973	980	F8.0
F_MARITAL_TYPOLO GY	1	981	988	F8.0
F_RELIG_TYPOLOGY	1	989	996	F8.0

F_BORN_TYPOLOGY	1	997	998	F2.0
F_ATTEND_TYPOLOGY	1	999	1000	F2.0
F_INCOME_TYPOLOGY	1	1001	1008	F8.0
F_INCOME_RECODE_TYPOLOGY	1	1009	1016	F8.0
F_REG_FINAL	1	1017	1024	F8.0
F_PARTY_TYPOLOGY	1	1025	1032	F8.0
F_PARTYLN_TYPOLOGY	1	1033	1040	F8.0
F_PARTYSUM_TYPOLOGY	1	1041	1048	F8.0
F_IDEO_TYPOLOGY	1	1049	1056	F8.0
F_IDEOCONSISTREC_TYPOLOGY	1	1057	1064	F8.0
F_INTUSER_FINAL	1	1065	1072	F8.0
F_INSURANCE_FINAL	1	1073	1080	F8.0
WEIGHT_W8	1	1081	1088	F8.4

2014 PEW RESEARCH CENTER'S AMERICAN TRENDS PANEL
WAVE 8 OCTOBER
OCTOBER 3-27, 2014[1]

ASK ALL:
POL1. Do you approve or disapprove of the way Barack Obama is handling his job as President?

1 Approve
2 Disapprove

SOFT PROMPT TEXT: *"Overall, do you approve or disapprove of the way Barack Obama is handling his job as President? Please select the response which best describes your views. If you're sure you want to skip, click Next"*

ASK IF APPROVE (POL1=1):
POL1AGR. Do you approve very strongly, or not so strongly?

1 Very strongly
2 Not so strongly

ASK DISAPPROVE (POL1=2):
POL1DIS. Do you disapprove very strongly, or not so strongly?

1 Very strongly
2 Not so strongly

RANDOMIZE POL2 and POL3
ASK ALL:
POL2. Do you approve or disapprove of the job the REPUBLICAN leaders in Congress are doing?

1 Approve
2 Disapprove

SOFT PROMPT TEXT: *"Overall, do you approve or disapprove of the job the Republican leaders in Congress are doing? Please select the response which best describes your views. If you're sure you want to skip, click Next"*

ASK ALL:
POL3. Do you approve or disapprove of the job the DEMOCRATIC leaders in Congress are doing?

1 Approve
2 Disapprove

SOFT PROMPT TEXT: *"Overall, do you approve or disapprove of the job the Democratic leaders in Congress are doing? Please select the response which best describes your views. If you're sure you want to skip, click Next"*

---

[1] Open-end responses are excluded from public datasets to protect the confidentiality of ATP panelists. Lines across page designate a page break.

ASK ALL:

POL4. The congressional elections will be coming up later this year. How closely have you followed news about candidates and election campaigns in your state and district? Have you followed it…

1 Very closely
2 Fairly closely
3 Not too closely
4 Not at all closely

RANDOMIZE ORDER OF RESPONSE OPTIONS 1 AND 2
ASK ALL:

POL5. If the elections for the U.S. House of Representatives were being held TODAY, would you vote for [**RANDOMIZE**: "the Republican Party's candidate" OR "the Democratic Party's candidate"] for Congress in your district?

1 Republican Party's candidate
2 Democratic Party's candidate
3 Another party's candidate
4 Not sure

ASK IF ANSWERED OTHER OR NOT SURE (POL5=3,4) OR IF NO RESPONSE TO POL5:

POL5A. As of TODAY, do you LEAN more to [**IN SAME ORDER AS POL5**.: "the Republican Party's candidate" OR "the Democratic Party's candidate] for the U.S. House of Representatives in your district?

1 Lean to Republican Party's candidate
2 Lean to Democratic Party's candidate
3 Lean to another party's candidate
4 Not sure

ASK ALL:

POL6. Would you like to see YOUR representative in Congress be re-elected in the next congressional election, or not?

1 Yes
2 No

ASK ALL:

POL7. Regardless of how you feel about your own representative, would you like to see MOST MEMBERS of Congress re-elected in the next congressional election, or not?

1 Yes
2 No

ASK ALL:

POL8. Thinking about the congressional elections that will be held this November, compared to previous elections, are you…

1 More enthusiastic about voting than usual this year
2 Less enthusiastic about voting than usual this year
3 About as enthusiastic about voting as previous elections

ASK ALL:
POL9. Will the issue of which party controls Congress, the Republicans or the Democrats, be a factor in your vote for Congress this year, or not?

1 Yes, will be a factor
2 No, will not

ASK ALL:
POL10. How do you think about your vote for Congress this fall?

1 My vote for Congress this fall is a vote FOR Obama
2 My vote for Congress this fall is a vote AGAINST Obama
3 Obama is not much of a factor in my vote for Congress this fall

---

PCT Elections Module

PROGRAMMING NOTE: WILL NEED A PROGRAMMING CODE COMPARING DATE OF COMPLETION WITH STATE PRIMARY DATE TO CLASSIFY RESPONDENTS AS PRE-PRIMARY OR POST-PRIMARY FOR EACH WAVE. RESPONDENT STATE BASED ON state given in REGSTATUS. THIS WILL BE CALLED PRIMARY_COMPARE (values 1=pre-primary and 2=post primary) and CURRENT_DATE. COMPARE AGAINST VARIABLE PRIMARY_DATE = MM/DD. MM=01-12 (Two Digit Month) / DD=01-31 (Two Digit Day of Month). PRE defined as on or before PRIMARY_DATE.
See 2014 Congressional Primary Election Dates in Chronological Order from the Federal Election Commission
http://www.fec.gov/pubrec/fe2014/2014pdates.pdf

ASK IN WAVES 2 THROUGH NOVEMBER WAVE FOR THOSE MISSING REGSTATUS FROM ALL PRIOR WAVES (i.e., ASK ONCE PER RESPONDENT) AND RESPONDENT MEETS FILTER FOR CITIZEN

ASK ALL REGSTATUS_STATUS=2 AND F_CITIZEN_RECODE = US Citizen

REGSTATUS Which of these statements best describes you?

1 I am registered to vote in **[FILL R'S STATE from prior wave/from typology for March wave]**
2 I am registered to vote in a different state **[SPECIFY / DROPDOWN LIST OF 50 STATES AND DC]**
3 I am not registered to vote
4 I am not sure if I'm registered to vote

ASK IN W3 THROUGH NOVEMBER WAVE:

ASK IF REGSTATUS_W8=1,2, AND F_CITIZEN_RECODE = US Citizen

OR

ASK IF MISSING REGSTATUS_W8 (NOT ASKED THIS WAVE) AND F_CITIZEN_RECODE = US Citizen

IF REGSTATUS_W8=3,4 do not ask

UPDATE In the past 30 days, did you register to vote or update your voter registration?

1 Yes, I registered to vote
2 Yes, I updated my registration
3 No, I am registered to vote and made no changes in the past 30 days

---

CHECK SAMPLE VARIABLE PRIMARY_DATE. IF STATE IS POST-PRIMARY (PRIMARY_COMPARE=2) AND RESPONDENT PLANTOP VALUE IS NOT 5 ON ANY PRIOR WAVE AND REGISTERED VOTER (F_REG_TYPOLOGY=1 OR (S_UPDATE=1 OR UPDATE_W8=1,2). ASK ONE TIME PER RESPONDENT (P14ASK=2).

DO NOT ASK IF:
REGSTATUS=1 AND RSTATE=22 (Louisiana) OR
REGSTATUS=2 AND REGSTATUSO=22 (Louisiana)

PRIMARY14 As you may know, primary elections take place in the months before general elections. Did you happen to vote in the primary election this year?

1 Yes, voted in person on Election Day
2 Yes, voted in person before Election Day
3 Yes, mailed in ballot
4 No, did not vote in this year

ASK IN WAVES MARCH, JUNE, SEPTEMBER, OCTOBER 2014

ASK OF ALL CITIZENS (F_CITIZEN_RECODE = US Citizen)
PGENERAL How likely are you to vote in **[**the general election**] [IF RSTATE=22 LOUISIANA:** the election**]** this November?

1 Definitely will vote
2 Probably will vote
3 Probably will not vote
4 Definitely will not vote
5 I already voted

IN WAVES JUNE, SEPTEMBER, OCTOBER 2014

ASK IF DEFINITELY OR PROBABLY WILL VOTE IN GENERAL (PGENERAL=1,2)
PLAN2 Do you plan to cast your vote in [the general election] [IF RSTATE=22 LOUISIANA: "the November election"] before Election Day or on Election Day?

1 Before Election Day
2 On Election Day
3 Not sure

ALL WAVES MARCH THROUGH NOVEMBER 2014
ASK IF LIKELY TO VOTE (PGENERAL=1,2 AND REGSTATUS STATE Not Equal to WA, OR, CO)

REQUEST Have you requested an absentee ballot for the upcoming election in November or not?

1 Yes
2 No

ASK IN WAVES JUNE, SEPTEMBER, OCTOBER 2014
ASK IF PLAN TO VOTE EARLY (PLAN2=1) and REGSTATUS state is NOT WA, OR:

EARLY1 Do you plan to vote in the [general election][RSTATE=22 LOUISIANA "November election"] in person or will you mail in your ballot?

1 Vote in person
2 Mail in ballot
3 Not sure

ASK IF DEFINITELY, PROBABLY WILL VOTE, PROBABLY WILL NOT VOTE (PGENERAL=1,2,3) AND RSTATE IS NOT WA, OR
DO NOT ASK IF PLAN TO VOTE EARLY BY MAIL (EARLY1=2)

POLL_LOCATION Do you know where your polling place is located?

1 I definitely know where my polling place is located
2 I think I know where my polling place is but I'm not certain
3 No, I'm not sure where my polling place is located

ASK IF DEFINITELY, PROBABLY WILL VOTE (PGENERAL=1,2) AND RSTATE IS NOT WA, OR
DO NOT ASK IF PLAN TO VOTE EARLY BY MAIL (EARLY1=2)

VOTE_TIME What time do you expect to vote?

1 Before 9 am
2 Between 9 am –11 am
3 Between 11 am – 1pm
4 Between 1 pm – 3 pm
5 Between 3 pm – 5 pm
6 After 5 pm

ASK IF DEFINITELY, PROBABLY WILL VOTE (PGENERAL=1,2) AND RSTATE IS NOT WA, OR
DO NOT ASK IF PLAN TO VOTE EARLY BY MAIL (EARLY1=2)

VOTE_LATER If you are unable to vote at this time, would you be willing to come back to vote at a later time?

1 Yes, definitely would come back to vote
2 Yes, probably would come back to vote
3 No, probably would not come back to vote
4 No, definitely would not come back to vote

ASK IF DEFINITELY, PROBABLY WILL VOTE (PGENERAL=1,2) AND RSTATE IS NOT WA, OR
DO NOT ASK IF PLAN TO VOTE EARLY BY MAIL (EARLY1=2)

EXPECT_WAIT How much time do you expect to spend in line at the polling place waiting to vote?

1 Less than 10 minutes
2 10 to 30 minutes
3 31 minutes to one hour
4 More than one hour

ASK IF DEFINITELY, PROBABLY WILL VOTE (PGENERAL=1,2) AND RSTATE IS NOT WA, OR
DO NOT ASK IF PLAN TO VOTE EARLY BY MAIL (EARLY1=2)

MAX_WAIT What is the MAXIMUM length of time you would be willing to wait in line to vote in the November Election?

1 15 minutes
2 30 minutes
3 45 minutes
4 60 minutes
5 90 minutes
6 Two hours
7 More than two hours

ALL WAVES MARCH THROUGH NOVEMBER 2014

ASK OF ALL CITIZENS (F_CITIZEN_RECODE = US Citizen)
CONTACT1 In the past 30 days, have you been personally contacted by any candidate, party, or other organization offering you information about an upcoming election?

1 Yes
2 No

ALL WAVES MARCH THROUGH NOVEMBER 2014

ASK IF YES (CONTACT1=1)
CONWHO Who contacted you with information about an election? Check all that apply. **[RANDOMIZE A-D, KEEPING E LAST]**

a. A candidate running for office or his/her campaign
b. A political party
c. Politically oriented groups other than parties and candidates
d. A state or local election office, such as the Board of Elections or the Secretary of State's office
e. Other **[please specify]**

ALL WAVES MARCH THROUGH NOVEMBER 2014

ASK OF ALL CITIZENS (F_CITIZEN_RECODE = US Citizen)

SEARCH And in the past 30 days, have you searched for information about an upcoming election?

1 Yes
2 No

ALL WAVES MARCH THROUGH NOVEMBER 2014

IF YES, SEARCHED (SEARCH=1):
SEARCHWHAT Did you search for any of the following types of information?
[RANDOMIZE A-G]
[Check all that apply]

a. Information about your voter registration status
b. The date of an upcoming election
NO ITEM C
d. The location of your polling place
e. A sample ballot
f. Any information about the rules or requirements for voting
g. Information about a candidate or candidates in an election

---

ALL WAVES MARCH THROUGH NOVEMBER 2014

IF YES TO ANY INFORMATION ABOUT RULES (SEARCHWHAT.F=1)
SEARCHRULES Did the information about the rules or requirements for voting include any of the following? **[RANDOMIZE A- C]**
[Check all that apply]

a. What type of identification you will need to vote
b. Who is eligible to participate in a primary election
c. How to cast a vote before Election Day, by absentee ballot or early voting

Smartphone Questions

ASK ALL
SMARTPHONE Which type of cell phone do you have?

[If you have multiple cell phones, select the one you use most often]

1 iPhone
2 Blackberry
3 Android
4 Windows
5 Symbian
6 Other kind of smartphone
7 I have a cell phone, but it's not a smartphone

8 I do not have a cell phone **[EXCLUSIVE PUNCH]**

ASK CELL PHONE OWNERS (SMARTPHONE=1-7):

COST1. Do you have an individual cell phone plan, or are you part of a group or family plan?

1 Individual plan including prepaid
2 Group or family plan, and I pay for the entire bill
3 Group or family plan, and I pay for a portion of the bill
4 Group or family plan, and I don't pay for any of the bill
5 Not sure

ASK IF KNOW TYPE OF PLAN (COST1=1-3):

COST2. How much do you PERSONALLY pay or contribute each month for your cell phone service (including your voice, texting, and/or data plan)?

[IF COST1=3: [*If you only pay for a portion of a group or family plan, please indicate that amount.]**]***

1 I pay nothing because someone else pays my bill
2 Less than $50
3 $50 to less than $100
4 $100 to less than $150
5 $150 to less than $200
6 $200 or more
7 Not sure
8 Prefer not to say

ASK CELL PHONE OWNERS (SMARTPHONE=1-7):

COST3. Have you ever had to cancel or shut off your cell phone service for a period of time because the cost of maintaining the service was too expensive?

1 Yes, have done this
2 No, have not had to do this

ASK ALL:

COMP. Do you own a desktop or laptop computer?

1 Yes
2 No

TAB. **Do you own a tablet computer?**

1 Yes
2 No

ASK SMARTPHONE OWNERS (SMARTPHONE=1-6):

SM1. Other than the data plan on your cell phone, do you have high-speed internet service at home (such as cable internet, DSL, FIOS, or satellite internet service)?

1 Yes, have high-speed internet service at home
2 No, do not have high-speed internet service

ASK SMARTPHONE OWNERS (SMARTPHONE=1-6):

SM2. Which of the following statements comes closest to describing how you use your cell phone to access online services and information, even if neither is exactly right?

1 Other than my cell phone, I have a limited number of ways to get online
2 I have a number of other options for getting online in addition to my cell phone

---

ASK SMARTPHONE OWNERS (SMARTPHONE=1-6):
[RANDOMIZE SM3A-SM3F]

SM3.

a. How often does content that you are trying to access on your cell phone not display properly?

1 Frequently
2 Occasionally
3 Rarely
4 Never

b. How often do apps that you've downloaded on your cell phone not work correctly?

1 Frequently
2 Occasionally
3 Rarely
4 Never

c. How often is your monthly cell phone bill substantially higher than you expected it to be?

1 Frequently
2 Occasionally
3 Rarely
4 Never

d. How often do you experience unexpected cell phone charges from in-app purchases?

1 Frequently
2 Occasionally
3 Rarely
4 Never

e. How often do you reach the maximum amount of data you are allowed to use as part of your cell phone plan?

1 Frequently
2 Occasionally
3 Rarely
4 Never

f. How often do poor or dropped signals prevent you from using your cell phone?

1 Frequently
2 Occasionally
3 Rarely
4 Never

ASK ALL:

EXPS. Which of the following have you done in the last year?
[Check all that apply] **[RANDOMIZE A-F]**

a. Look for information about a job
b. Submit a job application
c. Access government services or information
d. Take a class or watch educational content
e. Look up information about a health condition
f. Look up real estate listings or information about a place to live

g. I have not done any of these **[Exclusive punch]**

ASK ALL:

BANK. Do you have an account with a bank?

1 Yes
2 No

ASK SMARTPHONE OWNERS (SMARTPHONE=1-6):
[RANDOMIZE SM4A-SM4G, MATCH SAME ORDER OF RANDOMIZATION OF A-F FROM EXPS WITH G ALWAYS LAST]
SM4.

a. In the last year, have you used your CELL PHONE to…
Look for information about a job

1 Yes, have done this using cell phone
2 No, have not done this using cell phone

b. In the last year, have you used your CELL PHONE to…
Submit a job application

1 Yes, have done this using cell phone
2 No, have not done this using cell phone

c. In the last year, have you used your CELL PHONE to…
Look up government services or information

1 Yes, have done this using cell phone
2 No, have not done this using cell phone

d. In the last year, have you used your CELL PHONE to…
Take a class or watch educational content

1 Yes, have done this using cell phone
2 No, have not done this using cell phone

e. In the last year, have you used your CELL PHONE to…
Look up information about a health condition

1 Yes, have done this using cell phone
2 No, have not done this using cell phone

f. In the last year, have you used your CELL PHONE to…
Look up real estate listings or information about a place to live

1 Yes, have done this using cell phone
2 No, have not done this using cell phone

g. In the last year, have you used your CELL PHONE to…
Do online banking (for example, pay a bill or transfer money)

1 Yes, have done this using cell phone
2 No, have not done this using cell phone

ASK SMARTPHONE OWNERS (SMARTPHONE=1-6):
[RANDOMIZE SM5A-SM5C]

SM5.

a. How often, if ever, do you use your CELL PHONE to…
Get public transit information

1 Frequently
2 Occasionally
3 Rarely
4 Never

b. How often, if ever, do you use your CELL PHONE to…
Reserve a taxi or car service

1 Frequently
2 Occasionally
3 Rarely
4 Never

c. How often, if ever, do you use your CELL PHONE to…
Get turn-by-turn navigation while you are driving

1 Frequently
2 Occasionally
3 Rarely
4 Never

ASK SMARTPHONE OWNERS (SMARTPHONE=1-6):
[RANDOMIZE SM6A-SM6D]

SM6.

a. How often, if ever, do you use your CELL PHONE to…
Follow along with breaking news events

1 Frequently
2 Occasionally
3 Rarely
4 Never

b. How often, if ever, do you use your CELL PHONE to…
Share pictures, videos, or commentary with others about events happening in your community

1 Frequently
2 Occasionally
3 Rarely
4 Never

c. How often, if ever, do you use your CELL PHONE to…
Make a monetary donation to a political or charitable cause

1 Frequently
2 Occasionally
3 Rarely
4 Never

d. How often, if ever, do you use your CELL PHONE to…
Learn about events or activities in your community

1 Frequently
2 Occasionally
3 Rarely
4 Never

ASK SMARTPHONE OWNERS (SMARTPHONE=1-6):

SM7. Have you ever used your cell phone to report a problem in your neighborhood (like a pothole or a missing street sign) to the local authorities?

1 Yes, have done this with cell phone
2 Have done this, but not with my cell phone
3 No, have not done this

ASK CELL PHONE OWNERS (SMARTPHONE=1-7):

EMER1. Have you ever been in an emergency situation where having your cell phone helped resolve the issue?

1 Yes
2 No

ASK IF EMERGENCY SITUATION (EMER1=1):

EMER2. Please describe a recent situation in which you used your cell phone to get help in an emergency.

OPEN END TEXT BOX—ABOUT 3 LINES

ASK CELL PHONE OWNERS (SMARTPHONE=1-7):

PROB1. Have you ever been in a situation where you had trouble doing something because you didn't have your cell phone with you?

1 Yes
2 No

ASK IF HAD TROUBLE DOING SOMETHING WITHOUT PHONE (PROB1=1):

PROB2. Please describe a recent situation where you had trouble doing something because you didn't have your phone with you.

OPEN END TEXT BOX—ABOUT 3 LINES

ASK CELL PHONE OWNERS (SMARTPHONE=1-7):
[RANDOMIZE SM8A-SM8E, RANDOMIZE ORDER OF RESPONSE OPTIONS]

SM8.

a. Which of the following statements most closely matches how you feel about your cell phone, even if neither one is exactly right?

1 Not always needed
2 Couldn't live without

b. Which of the following statements most closely matches how you feel about your cell phone, even if neither one is exactly right?

1 Freedom
2 Leash

c. Which of the following statements most closely matches how you feel about your cell phone, even if neither one is exactly right?

1 Connecting
2 Distracting

d. Which of the following statements most closely matches how you feel about your cell phone, even if neither one is exactly right?

1 Helpful
2 Annoying

e. Which of the following statements most closely matches how you feel about your cell phone, even if neither one is exactly right?

1 Worth the cost
2 Financial burden

IF HAVE IPHONE, BLACKBERRY, OR ANDROID (SMARTPHONE_1=1 OR SMARTPHONE_2=1 OR SMARTPHONE_3=1), RANDOMLY ASSIGN 60% TO EXPERIMENTAL_GROUP=1 (APP) AND 40% TO EXPERIMENTAL_GROUP=2 (WEB)

IF HAVE WINDOWS PHONE, SYMBIAN OR OTHER KIND OF SMARTPHONE (SMARTPHONE_4=1, SMARTPHONE_5=1 or SMARTPHONE_6=1) EXPERIMENTAL_GROUP=3

In early November we plan to do a special follow up study for our panelists who have smartphones. Panelists who agree to take part in this study would [**EXPERIMENTAL_GROUP=1:** download an app on their smartphone to]complete a set of very short follow up surveys[**EXPERIMENTAL_GROUP=2,3:** on their smartphone, tablet, laptop or desktop computer.

These surveys take no more than two minutes each, conducted twice a day for seven days]. Invitations to these surveys will be sent via [**EXPERIMENTAL_GROUP=1:** text message, email and by notifications from the app./**EXPERIMENTAL_GROUP=2,3** text message and email**.**].

We would give you $5 for agreeing to take part in the follow up surveys, $1 for each of the 14 follow up surveys you complete and an additional $5 for completing 10 or more of the follow up surveys. If you complete all the surveys you'd receive $24 in total. It's important we have respondents complete as many surveys as possible over the week.

[EXPERIMENTAL_GROUP=1: The app you download will only be used to take surveys. This app will NOT be used to collect any data, photos or media files from your phone or any usage or location information. This is a third-party app not developed by us but one we use for conducting surveys. Any third-party app could have some risk associated with it; however, we believe the source to be trustworthy.]
The purpose of this follow up study is to understand how people use their smartphones, why they use them and how it makes them feel. The information will be based on your answers to the survey questions.

FOLLOW_UP Would you be willing to **[EXPERIMENTAL_GROUP=1:** download the app and**]** take part in these follow up surveys?

1 Yes
2 No

ASK IF APP GROUP AND SAY NO OR REFUSED (EXPERIMENTAL_GROUP=1 AND FOLLOW_UP=2, 99):

APP_TO_WEB Would you be willing to complete these follow up surveys using a regular web survey that would not require you to download an app to your smartphone? You'd be able to take these on your smartphone, tablet, laptop or desktop computer.

1 Yes
2 No

PROGRAMMING NOTE: IF APP_TO_WEB=1, EXPERIMENTAL_GROUP=4

ASK IF IN FOLLOW UP SAMPLE (FOLLOW_UP=1 OR APP_TO_WEB=1)

TEXTCONSMOD It is important that you complete each follow up survey within 2 hours of receiving the invitation. For that reason, we would like to send you invitations to these follow up surveys via text message in addition to email **[EXPERIMENTAL_GROUP=1** and notification from the app**]**. Standard text messaging rates may apply, depending upon the plan you have with your cell phone service provider.

May we have your permission to send you invitations to the follow up surveys via text message?

CATEGORIES
1 Yes
2 No

IF PERMISSION TO TEXT (TEXTCONSMOD=1) AND NO CELLPHONE NUMBER FROM TYPOLOGY OR PRIOR WAVES (PCELLNUMB=MISSING):

CELLNUMA So that we may send you invitations to surveys via text message what is your cell phone number including area code?

(_ _ _) _ _ _ - _ _ _ _

IF PERMISSION TO TEXT (TEXTCONSMOD=1) AND HAVE A CELLPHONE NUMBER FROM TYPOLOGY OR PRIOR WAVE (PCELLNUMB=MISSING):

CELLNUMB So that we may send you or invitations to surveys via text message, is this the best cell phone number to use? [**Auto populate with cell phone number on file**]

(_ _ _) _ _ _ - _ _ _ _

CATEGORIES
1 Yes
2 No

IF RESPONDENT SAYS AUTOFILL NUMBER IN CELLNUMB IS NOT THEIR CELLPHONE NUMBER ASK:

CELLNUMC So that we may send you invitations to surveys via text message what is your cell phone number including area code?

(_ _ _) _ _ _ - _ _ _ _

ASK IF IN FOLLOW UP SAMPLE (FOLLOW_UP=1 OR APP_TO_WEB=1)

TIMEZONE_CONFIRM So that we send you invitations at the correct times, can you please confirm that this is the time zone you will be in from November 10 to November 16?

[AUTOPOPULATE WITH TIME ZONE BASED ON MOST RECENT SELF-REPORTED ZIPCODE OR RSTATE (VARIABLE = TIMEZONE)]

1 Yes this is the correct time zone
2 No, this is not the correct time zone

ASK IF IN FOLLOW UP SAMPLE (FOLLOW_UP=1 OR APP_TO_WEB=1) AND (TIME ZONE ABOVE IS INCORRECT OR REFUSED (TIMEZONE_CONFIRM =2,99)

TIMEZONE_ASK So that we send you invitations at the correct times, can you please tell us what time zone you will be in from November 10 to November 16?

1 Eastern Time Zone
2 Central Time Zone
3 Mountain Time Zone
4 Pacific Time Zone
5 Alaskan Time Zone
6 Hawaiian Time Zone
7 Other (SPECIFY)
8 Not Sure

ASK ALL:
KHJ1.
On a different topic…

From what you've read and heard, is there solid evidence that the average temperature on earth has been getting warmer over the past few decades, or not?

1 Yes, solid evidence that earth is getting warmer
2 No, not solid evidence
8 Don't know

ASK IF THINKS GOTTEN WARMER (KHJ1=1):
KHJ2A. Do you believe that the earth is getting warmer mostly because of…

FORM 1 AS IS (1/2 ORDER); FORM 2 (2/1 ORDER)
1 Human activity such as burning fossil fuels
2 Natural patterns in the earth's environment
8 Don't know

ASK IF EARTH IS NOT GETTING WARMER (KHJ1=2):
KHJ2B. Do you think that we just don't know enough yet about whether the Earth is getting warmer or do you think it's just not happening?

FORM 1 AS IS (1/2 ORDER); FORM 2 2/1 ORDER
1 Just don't know enough yet
2 Just not happening
8 Don't know

ASK ALL:
KHJ3 Just your best guess, was the area of the Arctic covered by sea ice...

FORM 1 AS IS (1/2 ORDER); FORM 2 (2/1 ORDER)
1 Greater in 1979 than in 2013
2 Lower in 1979 than in 2013
3 About the same in 1979 as in 2013
8 Don't know

ASK ALL:
KHJ4 How much confidence do you have in the people running the following institutions?

a. The scientific community

1 A great deal of confidence
2 Only some confidence
3 Hardly any confidence
8 Don't know

b. The editors of major scientific journals

1 A great deal of confidence
2 Only some confidence
3 Hardly any confidence
8 Don't know

ASK ALL:
KHJ5 How much do you trust scientists to provide impartial and accurate findings on climate change?

1 A great deal
2 A fair amount
3 Just some
4 Very little
8 Don't know

ASK ALL:
KHJ6 Just your impression, which one of the following statements do you think is most accurate?

1. Most scientists believe that global warming is occurring
2. Most scientists believe that global warming is not occurring
3. Most scientists are unsure about whether global warming is occurring or not
8 No opinion

ASK IF FORM 1:

KHJ7a Scientists can change the genes in some food crops, such as corn, to make them grow faster or bigger and be more resistant to bugs, weeds, and disease. Do you think such foods are safe or not safe to eat?

1 Safe to eat
2 Not safe to eat
8 Don't know

ASK IF FORM 2:

KHJ7b Scientists can change the genes in some food crops, such as corn, to give them characteristics that would not occur in nature. Do you think such foods are safe or not safe to eat?

1 Safe to eat
2 Not safe to eat
8 Don't know

ASK ALL:

KHJ8 Do you think genetically enhanced or modified foods, such as corn, are safe or not safe to eat?

1 Safe to eat
2 Not safe to eat
8 Don't know

ASK ALL:

KHJ9 How much do you trust scientists to provide impartial and accurate findings on the safety of genetically enhanced or modified crops?

1 A great deal
2 A fair amount
3 Just some
4 Very little
8 Don't know

ASK ALL

KHJ10 In the last week, how much, if any, genetically enhanced or modified food do you think you ate?

1 Great deal
2 Some
3 Not much
4 None at all
5 Don't know

ASK IF MISSING F_INSURANCE_W7:
Q.27. Are you, yourself, now covered by any form of health insurance or health plan or do you not have health insurance at this time?

1 Covered by health insurance
2 Not covered by health insurance

ASK IF INSURED (Q.27=1 OR F_INSURANCE_W7=1):
Q.28. Which of the following is your MAIN source of health insurance coverage?

1 Plan purchased yourself
2 Plan through your current or previous employer
3 Plan through your spouse's current or previous employer
4
5 Plan through your parents/mother/father
6 Military or veterans' coverage
7 Medicare
8 Medicaid/[STATE-SPECIFIC MEDICAID NAME]
9 Somewhere else (**SPECIFY**) _____

ASK IF PURCHASE OWN INSURANCE PLAN AND AGE_TYPOLOGY<65 (Q.28=1 AND (AGE_TYPOLOGY<65):
Q.29 How did you purchase your plan?

1 Directly from an insurance company
2 From healthcare.gov or [STATE MARKETPLACE NAME]
3 Through an insurance agent or broker

PEW RESEARCH CENTER
CODEBOOK AND INSTRUCTIONS FOR WORKING WITH AMERICAN TRENDS PANEL DATA
Updated December 2019

DEMOGRAPHIC PROFILE VARIABLES
Each ATP dataset comes with a number of variables prefixed by "F_" (for "frame") that contain demographic profile data. These variables are not measured every wave; instead, they are sourced from panel profile surveys conducted on a less frequent basis. Some profile variables are also occasionally asked on panel waves and are accordingly updated for each panelist. Profile information is based on panelists' most recent response to the profile questions. Some variables are coarsened to help protect the confidentiality of our panelists. Interviewer instructions in [ ] and voluntary responses in ( ) are included if the source of a profile variable was ever presented in phone (CATI) mode. See Appendix I for the profile variable codebook.

UNIQUE IDENTIFIER
The variable QKEY is a unique identifier assigned to each respondent. QKEY can be used to link multiple panel waves together. Note that except in a few instances, weights are only provided for single waves. Use caution when analyzing data from multiple waves without weights that are designed for use with multiple waves.

DATA VARIABLE TYPES
American Trends Panel datasets contain single-punch or multi-punch variables. For questions in a 'Check all that apply' format, each option has its own variable indicating whether a respondent selected the item or not. For some datasets there is an additional variable indicating whether a respondent did not select any of the options. Open-end string variables are not included in ATP datasets. Coded responses to open-end questions are included when available.

DATASET FORMAT
The dataset is formatted as a .sav file and can be read with the SPSS software program. The dataset can also be read with the R programming language, using the 'foreign' package. R is a free, open-source program for statistical analysis that can be downloaded at: https://cran.r-project.org/. It can also be used to export data in .csv format for use with other software programs.

NOTE: Using other tools to directly convert the .sav file to another format such as .csv may ERASE value labels. For this reason, it is highly recommended that you use either SPSS or R to read the file directly.

The following example code shows how to import data into R, view variable descriptions, and export the data to .csv format.

```
### EXAMPLE CODE ###
library(foreign)

# The following line of code will import the dataset as an R data.frame
# Replace XX with the wave number

atp <- read.spss("ATP WXX.sav", to.data.frame = TRUE)

# The following line of code will show the variable description
```

```
# Replace VAR with the variable name

attr(atp, "variable.labels")[["VAR"]]

# The following line of code exports the data to .csv format.

write.csv(atp, "ATP WXX.csv", row.names = FALSE)
```

Click here to read an article on how to analyze Pew Research Center data in R. More advanced R users can click here to read an article on how to use different R packages to help analyze our data. These articles are part of Pew Research Center's blog on medium that is entitled Decoded.

APPENDIX I.
DEMOGRAPHIC PROFILE VARIABLE CODEBOOK

********** IMPORTANT **********

This section lists the demographic profile variables typically available in the ATP publicly released datasets. These variables have the prefix "F_" to denote that they are "frame" profile variables, which are not asked every wave.

In most cases, the F_ variables are recoded versions of questions asked in the annual panel profile survey. Those source questions, from which the F_ variables are computed, are provided below and **shaded gray**. Some source questions are not publicly released in order to help protect the confidentiality of our panelists. Previous versions of these variables in older ATP datasets may end in "_FINAL" or "_RECRUITMENT".

****

F_METRO
Metropolitan area indicator coded from FIPS.

1	Metropolitan
2	Non-metropolitan

F_CREGION
Census region coded from panelist zip code. Region is updated each wave if a panelist moves and provides a new address.

ZIPCODE	What is your zipcode?	
	_____	Enter Zipcode
	9	Don't know/Refused

F_AGECAT
Four-way category based on the panelist age as calculated from their date of birth. For panelists for whom we have a complete DOB, age will be calculated as of the date that they completed the most recent survey. If only YOB is available, age is calculated as calendar year July 1 – YOB. If DOB and YOB are both unavailable, age is calculated as calendar year of recruitment survey – self-reported age at the time of recruitment.

1	18-29
2	30-49
3	50-64
4	65+
99	Refused

DOB What is your date of birth? Like all of the information you provide us, this information will only be used for research-related purposes.

ASK IF DOB=MISSING:

YOB If you do not wish to provide your full date of birth, may we have just your year of birth? Again, this information will only be used for research-related purposes.

AGE What is your age?

_____ years
98 98 or older
99 Don't know/Refused **(VOL.)**

F_SEX

Self-reported sex.

SEXASK Are you male or female?
1 Male
2 Female

F_EDUCCAT

Three-way category coded from self-reported educational attainment.

1	College graduate+	(EDUC_ACS =11,12,13,14)
2	Some college	(EDUC_ACS =8,9,10)
3	H.S. graduate or less	(EDUC_ACS =1,2,3,4,5,6,7)
99	Don't know/Refused	(EDUC_ACS =Refused)

EDUC_ACS What is the highest degree or level of school that you have COMPLETED?
1 No schooling completed
2 Nursery school
3 Kindergarten
4 Grade 1 through 11 (Specify Grade ____)
5 12th Grade – **NO DIPLOMA**
6 Regular high school diploma
7 GED or alternative credential
8 Some college credit, but less than 1 year of college credit
9 1 or more years of college credit, no degree
10 Associate's degree (for example: AA, AS)
11 Bachelor's degree (for example: BA, BS)
12 Master's degree (for example: MA, MS, MEng, MEd, MSW, MBA)
13 Professional degree beyond a bachelor's degree (for example: MD, DDS, DVM, LLB,JD)
14 Doctorate degree (for example: PhD, EdD)

F_EDUCCAT2
Six-way category coded from self-reported educational attainment.

1	Less than high school	(EDUC_ACS=1,2,3,4,5)
2	High school graduate	(EDUC_ACS =6,7)
3	Some college, no degree	(EDUC_ACS=8,9)
4	Associate's degree	(EDUC_ACS=10)
5	College graduate/some postgrad	(EDUC_ACS =11)
6	Postgraduate	(EDUC_ACS =12,13,14)
99	Don't know/Refused	(EDUC_ACS =Refused)

F_HISP
Self-reported Hispanic, Latino, or Spanish origin.

HISP Are you of Hispanic, Latino, or Spanish origin, such as Mexican, Puerto Rican or Cuban?

1	Yes
2	No
9	**(VOL.)** Don't know/Refused

F_RACECMB[1]
Five-way category combining race.

1	White
2	Black or African-American
3	Asian or Asian-American
4	Mixed Race
5	Or some other race
9	(VOL) Don't know/Refused

[1] Includes backcoded responses to RACE=4 Some other race. For more information on backcoding procedures contact info@pewresearch.org.

RACE

Which of the following describes your race? You can select as many as apply. White, Black or African American, Asian or Asian American or some other race. **[RECORD UP TO FOUR IN ORDER MENTIONED BUT DO NOT PROBE FOR ADDITIONAL] [IF R VOLS MIXED BIRACIAL, PROBE ONCE:** What race or races is that?]

1 White (e.g., Caucasian, European, Irish, Italian, Arab, Middle Eastern)
2 Black or African-American (e.g., Negro, Kenyan, Nigerian, Haitian)
3 Asian or Asian-American (e.g., Asian Indian, Chinese, Filipino, Vietnamese or other Asian origin groups)
4 Some other race **(SPECIFY____ IF NEEDED**: What race or races is that?**)**
5 **(VOL.)** Native American/American Indian/Alaska Native
6 **(VOL.)** Pacific Islander/Native Hawaiian
7 **(VOL.)** Hispanic/Latino (e.g., Mexican, Puerto Rican, Cuban)
8 **(VOL.)** Don't know
9 **(VOL.)** Refused (e.g., non-race answers like American, Human, purple)

```
recode race_1 (1=1) (2=2) (3=3) (4 thru 7=5) (8 thru 9=9) into racecmb.
if race_2>0 and race_2 <8 racecmb=4.
variable label racecmb "Combining Race".
value label racecmb
    1 "White"
    2 "Black or African-American"
    3 "Asian or Asian-American"
    4 "Mixed Race"
    5 "Or some other race"
    9 "Don't know/Refused (VOL.)".
```

F_RACETHN

Four-way category combining race and ethnicity.

1 White, non-Hispanic
2 Black, non-Hispanic
3 Hispanic
4 Other
9 (VOL) Don’t know/Refused

```
if racecmb=1 and hisp ge 2 racethn=1.
if racecmb=2 and hisp ge 2 racethn=2.
if (racecmb ge 3 and racecmb le 5) and (hisp ge 2) racethn=4.
if racecmb=9 racethn=9.
if hisp=1 racethn=3.
variable label racethn “Race-Ethnicity”.
value label racethn
    1 “White non-Hispanic”
    2 “Black non-Hispanic”
    3 “Hispanic”
    4 “Other”
    9 “Don’t know/Refused (VOL.)”.
```

F_NATIVITY
Country of birth.

NATIVITY Where were you born?

1 U.S.
2 Puerto Rico
3 Other U.S. territory
4 Another country

F_CITIZEN
Citizenship status.

CITIZEN Are you a citizen of the United States, or not?

1 Yes
2 No

Previous versions of this variable in older ATP datasets were coded as follows based on a combination of responses to three separate questions. This variable was previously labeled as F_CITIZEN_RECODE_RECRUITMENT in ATP datasets prior to W38.

1	US Citizen	(BIRTH_HISP =1,2 OR USBORN =1,3,4 OR CITIZEN=1)
2	Not US Citizen	(CITIZEN=2)
9	DK US Citizen	(CITIZEN=9)

ASK IF HISPANIC (HISP=1 OR RACE=7):
BIRTH_HISP Were you born in the United States, on the island of Puerto Rico, or in another country?

1 U.S.
2 Puerto Rico
3 Another country
9 Don't know/Refused **(VOL.)**

ASK IF NOT HISPANIC (HISP=2,9 AND RACE≠7):
USBORN Were you born in the United States or in another country?

1 Yes, born in U.S.
2 No, some other country
3 Puerto Rico **(VOL.)**
4 Other U.S. Territories (includes Guam, Samoa, U.S. Virgin Islands) **(VOL.)**
9 Don't know/Refused **(VOL.)**

CITIZENSHIP coding continued…

ASK IF NOT BORN IN US, PUERTO RICO OR US TERRITORIES (BIRTH_HISP=3,9 OR USBORN=2,9):

CITIZEN Are you a citizen of the United States, or not?

1 Yes
2 No
9 Don't know/Refused **(VOL.)**

F_MARITAL

Self-reported marital status.

MARITAL Which of these best describes you?

1 Married
2 Living with a partner
3 Divorced
4 Separated
5 Widowed
6 Never been married

F_RELIG[2]

Self-reported religious affiliation.

RELIG What is your present religion, if any?

[IN CATI ONLY: INTERVIEWER: IF R VOLUNTEERS "nothing in particular, none, no religion, etc." BEFORE REACHING END OF LIST, PROMPT WITH: And would you say that's atheist, agnostic, or just nothing in particular?]

1 Protestant (Baptist, Methodist, Non-denominational, Lutheran, Presbyterian, Pentecostal, Episcopalian, Reformed, Church of Christ, Jehovah's Witness, etc.)
2 Roman Catholic (Catholic)
3 Mormon (Church of Jesus Christ of Latter-day Saints/LDS)
4 Orthodox (Greek, Russian, or some other orthodox church)
5 Jewish (Judaism)
6 Muslim (Islam)
7 Buddhist
8 Hindu
9 Atheist (do not believe in God)
10 Agnostic (not sure if there is a God)
11 Something else **(SPECIFY:_____)**
12 Nothing in particular
13 Christian **(VOL.)**
14 Unitarian (Universalist) **(VOL.)**
99 Don't Know/Refused **(VOL.)**

[2] Includes backcoded responses to RELIG=11 Something else. For more information on backcoding procedures contact info@pewresearch.org.

F_ATTEND
Self-reported religious service attendance frequency.

ATTEND Aside from weddings and funerals, how often do you attend religious services?

1 More than once a week
2 Once a week
3 Once or twice a month
4 A few times a year
5 Seldom
6 Never

F_BORN
Self-reported follow up to confirm Evangelical status.

ASK IF SOMETHING ELSE OR DK/REF (RELIG=11, 99):
CHR Do you think of yourself as a Christian or not? **[IF R NAMED A NON-CHRISTIAN RELIGION IN PREVIOUS QUESTION (e.g. Native American, Wiccan, Pagan, etc.), DO NOT READ (ENTER "NO" CODE 2)]**

1 Yes
2 No
9 **(VOL.)** Don't know/Refused

ASK IF CHRISTIAN (RELIG =1-4 OR CHR=1):
BORN Would you describe yourself as a born-again or evangelical Christian, or not?

1 Yes, born-again or evangelical Christian
2 No, not born-again or evangelical Christian

F_PARTY_FINAL
Self-reported party identification.

PARTY In politics today, do you consider yourself a…

1 Republican
2 Democrat
3 Independent
4 Something else

F_PARTYLN_FINAL
Self-reported party identification (lean).

ASK IF INDEP/SOMETHING ELSE (PARTY=3 or 4 or REFUSED):
PARTYLN As of today do you lean more to…

1 The Republican Party
2 The Democratic Party

F_PARTYSUM_FINAL
Party summary recoded off F_PARTY_FINAL and F_PARTYLN_FINAL.

1 Rep/Rep Lean
2 Dem/Dem Lean
3 Independent/No Lean
99 DK/Ref

IF PARTY=1 OR PARTYLN=1 PARTYSUM_FINAL=1.
IF PARTY=2 OR PARTYLN=2 PARTYSUM_FINAL=2.
IF PARTY=3 AND PARTYLN=99 PARTYSUM_FINAL=9.
IF PARTY=4 AND PARTYLN=99 PARTYSUM_FINAL=9.
IF PARTY=99 AND PARTYLN=99 PARTYSUM_FINAL=9.

F_INCOME
Self-reported family income.

INCOME Last year, that is in [FILL LAST YEAR], what was your total family income from all sources, before taxes?

1 Less than $10,000
2 $10,000 to less than $20,000
3 $20,000 to less than $30,000
4 $30,000 to less than $40,000
5 $40,000 to less than $50,000
6 $50,000 to less than $75,000
7 $75,000 to less than $100,000
8 $100,000 to less than $150,000
9 $150,000 or more

F_INCOME_RECODE
Three-way category coded from self-reported family income.

1	$75,000+
2	$30-$74,999
3	<$30,000
99	(VOL) Don't know/Refused

$75,000+	(INCOME =7,8,9)
$30-$74,999	(INCOME =4,5,6)
<$30,000	(INCOME =1,2,3)
Don't know/Refused	(INCOME =99)

F_REG
Self-reported voter registration status.

REG Which of these statements best describes you?

1	You are ABSOLUTELY CERTAIN that you are registered to vote at your current address
2	You are PROBABLY registered, but there is a chance your registration has lapsed
3	You are NOT registered to vote at your current address

F_IDEO
Self-reported ideology.

IDEO In general, would you describe your political views as…

[PROGRAMMING NOTE: REVERSE RESPONSE OPTION SCALE FOR RANDOM HALF OF RESPONDENTS]

1	Very conservative
2	Conservative
3	Moderate
4	Liberal
5	Very liberal

F_INTUSER
Coded household internet status.

0 Not Internet User
1 Internet User

F_INTUSER source from 2017+:

HOMEINT1 Do you personally have access to the internet at your home?

1 Yes
2 No
9 **(VOL.)** Don't Know/Refused

ASK IF NO INTERNET ACCESS AT HOME OR DK (HOMEINT1=2,9):
OTHERINT1 Do you use the internet anywhere other than your home, at least occasionally?

1 Yes **[SKIP TO INT3M]**
2 No
9 **(VOL.)** Don't Know/Refused

ASK IF DOES NOT USE THE INTERNET (OTHERINT1=2,9):
INT2 Do you send or receive email, at least occasionally?

1 Yes
2 No
9 **(VOL.)** Don't Know/Refused

ASK IF DOES NOT HAVE THE INTERNET AT HOME (HOMEINT1=2,9):
INT3M Do you access the internet on a cell phone, tablet or other mobile handheld device, at least occasionally?

1 Yes
2 No
9 **(VOL.)** Don't Know/Refused

```
compute intuser = 0.
if homeint1 = 1 or int2=1 or int3m = 1 intuser = 1.
value label intuser
        1 "Internet user"
        0 "Not internet user"
```

F_INTUSER source from 2014-2016:

INT1 Do you use the internet, at least occasionally?
1 Yes
2 No
9 Don't Know/Refused **(VOL.)**

ASK IF DOES NOT USE THE INTERNET (INT1=2,9):
INT2 Do you send or receive email, at least occasionally?

1 Yes
2 No
9 Don't Know/Refused **(VOL.)**

ASK IF DOES NOT USE THE INTERNET OR EMAIL (INT2=2,9):
INT3M Do you access the internet on a cell phone, tablet or other mobile handheld device, at least occasionally?

1 Yes
2 No
9 Don't know/Refused **(VOL.)**

```
compute intuser = 0.
if int1 eq 1 or int2 eq 1 or int3m eq 1 intuser = 1.
val lab intuser
        1 'Internet user'
        0 'Not internet user'.
```

F_VOLSUM
Self-reported volunteerism status.

1 Yes
2 No
99 Refused

VOL1_CPS In the past 12 months, did you spend any time volunteering for any organization or association?

1 Yes
2 No

IF NO OR DID NOT ANSWER VOL1_CPS (VOL1_CPS=2 or refused)
VOL2_CPS Some people don't think of activities they do infrequently or for children's schools or youth organizations as volunteer activities. In the past 12 months have you done any of these types of activities?

1 Yes
2 No

IF VOL1=1 OR VOL2=1 F_VOLSUM=1
IF VOL1=2,99 AND VOL2=2 F_VOLSUM=2
IF VOL1=2,99 AND VOL2=99 F_VOLSUM=99

APPENDIX II.
PAST VERSIONS OF DEMOGRAPHIC PROFILE VARIABLES

The following variables were included in some previous ATP datasets but are no longer measured and are unavailable starting with Wave 38.

F_INSURANCE_FINAL
Self-reported insurance coverage.

INSURANCE	Are you, yourself, now covered by any form of health insurance or health plan or do you not have health insurance at this time? 1 Covered by health insurance 2 Not covered by health insurance

F_INT_FREQ1_FINAL
Self-reported internet frequency use.

INT_FREQ1	For the following question, consider time spent on the internet from a computer or mobile device at home, work, or any other locations. How often did you USUALLY access the internet over the last year? 1 Every day 2 At least once a week but not every day 3 Once a week 4 Once a month 5 Less than once a month 6 Never

F_INT_FREQCOMB_FINAL
Coded internet frequency use for self-reported daily users.

1 Use the Internet constantly
2 Use the Internet many times a day
3 Use the Internet a few times a day
4 Use the Internet about once a day
5 Use the Internet at least once a week but not every day
6 Use the Internet once a week
7 Use the Internet once a month

ASK FOR THOSE WHO SAY "EVERY DAY" (INT_FREQ1=1)
INT_FREQ2 Which of these best describes your Internet use:

[PROGRAMMING NOTE: Randomize half of respondents to get response options in order shown, other half gets the reverse]

1 I use the Internet almost constantly
2 I use the Internet many times a day
3 I use the Internet a few times a day
4 I use the Internet about once a day

IF INT_FREQ1 =1 AND INT_FREQ2=1 INT_FREQCOMB_FINAL=1.
IF INT_FREQ1 =1 AND INT_FREQ2=2 INT_FREQCOMB_FINAL=2.
IF INT_FREQ1 =1 AND INT_FREQ2=3 INT_FREQCOMB_FINAL=3.
IF INT_FREQ1 =1 AND INT_FREQ2=4 INT_FREQCOMB_FINAL=4.
IF INT_FREQ1 =2 INT_FREQCOMB_FINAL=5.
IF INT_FREQ1 =3 INT_FREQCOMB_FINAL=6.
IF INT_FREQ1 =4 INT_FREQCOMB_FINAL=7.
IF INT_FREQ1 =5 INT_FREQCOMB_FINAL=8.
IF INT_FREQ1 =6 INT_FREQCOMB_FINAL=9.

F_SNSUSER_FINAL
Social media user as coded from self-reported social network use.

0	Not Social Media User
1	Social Media User

SNS Do you use any of the following social networking sites? **[RANDOMIZE WITH "OTHER" ALWAYS LAST]**

[Check all that apply]

a. Facebook
b. Twitter
c. Google Plus
d. LinkedIn
e. Instagram
h. Vine
i. Tumblr
j. YouTube
k. Reddit
l. Snapchat
m. Pinterest
n. WhatsApp
o. Other

F_SNSUSER_FINAL=1 if any in SNSa-o=1

F_BBINT_RF1
Self-reported high-speed internet access.

BBINT Does your household currently subscribe to some type of high-speed internet service (such as cable internet, DSL, FIOS, or satellite internet service), not including a data plan you might have for a cell phone?

1 Yes, have high-speed internet service at home
2 No, do not have high-speed internet service
3 Not sure

F_IDEOCONSISTREC_RECRUITMENT
Coded ideological consistency.

For details see: http://www.people-press.org/2014/06/12/appendix-a-the-ideological-consistency-scale/

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
1	0	0	0	661	484	320	0	0	1371	345	0	0	0	0	3181	1
2	0	0	504	520	405	303	247	216	185	233	255	313	0	0	3181	2
3	0	0	327	312	341	324	344	334	323	300	281	295	0	0	3181	3
4	0	0	313	326	321	324	330	323	301	326	315	302	0	0	3181	4
5	0	0	275	322	319	285	314	316	366	342	310	332	0	0	3181	5
6	0	0	360	321	309	343	335	276	314	330	313	280	0	0	3181	6
7	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	7
8	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	8
9	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	9
10	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	10
11	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	11
12	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	12
13	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	13
14	0	0	0	623	289	1963	0	306	0	0	0	0	0	0	3181	14
15	0	0	0	29	0	0	0	0	0	0	0	0	3152	0	29	15
16	0	0	29	0	0	0	0	0	0	0	0	3152	0	0	3181	16
17	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	17
18	0	0	0	1602	1579	0	0	0	0	0	0	0	0	0	3181	18
19	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	19
20	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	20
21	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	21
22	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	22
23	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	23
24	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	24
25	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	25
26	0	0	0	1431	1744	6	0	0	0	0	0	0	0	0	3181	26
27	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	27
28	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	28
29	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	29
30	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	30
31	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	31
32	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	32
33	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	33
34	0	0	0	655	775	1	0	0	0	0	0	0	1750	0	1431	34
35	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	35
36	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	36
37	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	37
38	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	38
39	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	39
40	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	40
41	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	41
42	0	0	0	1326	417	1	0	0	0	0	0	0	1437	0	1744	42
43	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	43
44	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	44
45	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	45
46	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	46
47	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	47
48	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	48
49	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	49
50	0	0	0	655	2506	20	0	0	0	0	0	0	0	0	3181	50
51	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	51
52	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	52
53	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	53
54	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	54
55	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	55
56	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	56
57	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	57
58	0	0	0	1114	2049	18	0	0	0	0	0	0	0	0	3181	58
59	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	59
60	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	60
61	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	61
62	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	62
63	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	63
64	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	64
65	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	65
66	0	0	0	573	1373	925	309	1	0	0	0	0	0	0	3181	66
67	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	67
68	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	68
69	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	69
70	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	70
71	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	71
72	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	72
73	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	73
74	0	0	0	1104	1287	175	607	8	0	0	0	0	0	0	3181	74
75	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	75
76	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	76
77	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	77
78	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	78
79	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	79

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
80	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	80
81	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	81
82	0	0	0	141	143	110	318	1	0	0	0	0	2468	0	713	82
83	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	83
84	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	84
85	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	85
86	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	86
87	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	87
88	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	88
89	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	89
90	0	0	0	1673	1454	54	0	0	0	0	0	0	0	0	3181	90
91	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	91
92	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	92
93	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	93
94	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	94
95	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	95
96	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	96
97	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	97
98	0	0	0	575	2569	37	0	0	0	0	0	0	0	0	3181	98
99	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	99
100	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	100
101	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	101
102	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	102
103	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	103
104	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	104
105	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	105
106	0	0	0	735	959	1477	10	0	0	0	0	0	0	0	3181	106
107	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	107
108	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	108
109	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	109
110	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	110
111	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	111
112	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	112
113	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	113
114	0	0	0	2145	1018	18	0	0	0	0	0	0	0	0	3181	114
115	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	115
116	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	116
117	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	117
118	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	118
119	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	119
120	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	120
121	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	121
122	0	0	0	642	1084	1432	23	0	0	0	0	0	0	0	3181	122
123	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	123
124	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	124
125	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	125
126	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	126
127	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	127
128	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	128
129	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	129
130	0	0	0	39	2777	0	0	0	0	0	0	0	365	0	2816	130
131	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	131
132	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	132
133	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	133
134	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	134
135	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	135
136	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	136
137	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	137
138	0	0	0	240	5	31	17	13	0	0	0	0	2875	0	306	138
139	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	139
140	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	140
141	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	141
142	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	142
143	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	143
144	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	144
145	0	0	0	57	38	64	46	3	0	0	0	0	2973	0	208	145
146	0	0	18	33	7	27	37	36	19	16	29	23	2936	0	245	146
147	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	147
148	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	148
149	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	149
150	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	150
151	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	151
152	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	152
153	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	153
154	0	0	0	192	154	2685	30	0	0	0	0	0	120	0	3061	154
155	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	155
156	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	156
157	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	157
158	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	158

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
159	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	159
160	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	160
161	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	161
162	0	0	0	30	5	7	159	1	0	0	0	0	2979	0	202	162
163	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	163
164	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	164
165	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	165
166	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	166
167	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	167
168	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	168
169	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	169
170	0	0	0	2237	501	191	122	60	11	0	0	0	59	0	3122	170
171	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	171
172	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	172
173	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	173
174	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	174
175	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	175
176	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	176
177	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	177
178	0	0	0	867	1659	206	6	0	0	0	0	0	443	0	2738	178
179	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	179
180	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	180
181	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	181
182	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	182
183	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	183
184	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	184
185	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	185
186	0	0	0	354	2188	16	0	0	0	0	0	0	623	0	2558	186
187	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	187
188	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	188
189	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	189
190	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	190
191	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	191
192	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	192
193	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	193
194	0	0	0	677	2139	0	0	0	0	0	0	0	365	0	2816	194
195	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	195
196	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	196
197	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	197
198	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	198
199	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	199
200	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	200
201	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	201
202	0	0	0	310	428	17	1	0	0	0	0	0	2425	0	756	202
203	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	203
204	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	204
205	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	205
206	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	206
207	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	207
208	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	208
209	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	209
210	0	0	0	2012	275	181	9	0	0	0	0	0	704	0	2477	210
211	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	211
212	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	212
213	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	213
214	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	214
215	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	215
216	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	216
217	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	217
218	0	0	0	461	549	239	282	251	378	23	0	0	998	0	2183	218
219	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	219
220	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	220
221	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	221
222	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	222
223	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	223
224	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	224
225	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	225
226	0	0	0	1663	398	78	27	17	0	0	0	0	998	0	2183	226
227	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	227
228	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	228
229	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	229
230	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	230
231	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	231
232	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	232
233	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	233
234	0	0	0	1080	929	137	26	11	0	0	0	0	998	0	2183	234
235	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	235
236	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	236
237	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	237

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
238	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	238
239	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	239
240	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	240
241	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	241
242	0	0	0	213	593	275	399	106	88	492	17	0	998	0	2183	242
243	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	243
244	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	244
245	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	245
246	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	246
247	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	247
248	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	248
249	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	249
250	0	0	0	1342	1772	8	0	0	0	0	0	0	59	0	3122	250
251	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	251
252	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	252
253	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	253
254	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	254
255	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	255
256	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	256
257	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	257
258	0	0	0	407	935	0	0	0	0	0	0	0	1839	0	1342	258
259	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	259
260	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	260
261	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	261
262	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	262
263	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	263
264	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	264
265	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	265
266	0	0	0	647	695	0	0	0	0	0	0	0	1839	0	1342	266
267	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	267
268	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	268
269	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	269
270	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	270
271	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	271
272	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	272
273	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	273
274	0	0	0	689	653	0	0	0	0	0	0	0	1839	0	1342	274
275	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	275
276	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	276
277	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	277
278	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	278
279	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	279
280	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	280
281	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	281
282	0	0	0	1069	273	0	0	0	0	0	0	0	1839	0	1342	282
283	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	283
284	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	284
285	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	285
286	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	286
287	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	287
288	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	288
289	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	289
290	0	0	0	1291	51	0	0	0	0	0	0	0	1839	0	1342	290
291	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	291
292	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	292
293	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	293
294	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	294
295	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	295
296	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	296
297	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	297
298	0	0	0	5	0	0	0	0	0	0	0	0	3176	0	5	298
299	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	299
300	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	300
301	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	301
302	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	302
303	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	303
304	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	304
305	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	305
306	0	0	0	1067	2046	9	0	0	0	0	0	0	59	0	3122	306
307	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	307
308	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	308
309	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	309
310	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	310
311	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	311
312	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	312
313	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	313
314	0	0	0	964	103	0	0	0	0	0	0	0	2114	0	1067	314
315	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	315
316	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	316

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
317	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	317
318	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	318
319	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	319
320	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	320
321	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	321
322	0	0	0	906	161	0	0	0	0	0	0	0	2114	0	1067	322
323	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	323
324	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	324
325	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	325
326	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	326
327	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	327
328	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	328
329	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	329
330	0	0	0	970	97	0	0	0	0	0	0	0	2114	0	1067	330
331	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	331
332	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	332
333	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	333
334	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	334
335	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	335
336	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	336
337	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	337
338	0	0	0	851	216	0	0	0	0	0	0	0	2114	0	1067	338
339	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	339
340	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	340
341	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	341
342	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	342
343	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	343
344	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	344
345	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	345
346	0	0	0	989	78	0	0	0	0	0	0	0	2114	0	1067	346
347	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	347
348	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	348
349	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	349
350	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	350
351	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	351
352	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	352
353	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	353
354	0	0	0	158	909	0	0	0	0	0	0	0	2114	0	1067	354
355	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	355
356	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	356
357	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	357
358	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	358
359	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	359
360	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	360
361	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	361
362	0	0	0	22	0	0	0	0	0	0	0	0	3159	0	22	362
363	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	363
364	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	364
365	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	365
366	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	366
367	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	367
368	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	368
369	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	369
370	0	0	0	36	38	0	0	0	0	0	0	0	3107	0	74	370
371	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	371
372	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	372
373	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	373
374	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	374
375	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	375
376	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	376
377	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	377
378	0	0	0	40	34	0	0	0	0	0	0	0	3107	0	74	378
379	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	379
380	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	380
381	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	381
382	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	382
383	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	383
384	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	384
385	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	385
386	0	0	0	32	42	0	0	0	0	0	0	0	3107	0	74	386
387	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	387
388	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	388
389	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	389
390	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	390
391	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	391
392	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	392
393	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	393
394	0	0	0	8	0	0	0	0	0	0	0	0	3173	0	8	394
395	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	395

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
396	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	396
397	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	397
398	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	398
399	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	399
400	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	400
401	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	401
402	0	0	0	1064	26	947	52	0	99	831	138	24	0	0	3181	402
403	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	403
404	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	404
405	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	405
406	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	406
407	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	407
408	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	408
409	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	409
410	0	0	0	1021	1156	391	380	58	13	0	0	0	162	0	3019	410
411	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	411
412	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	412
413	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	413
414	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	414
415	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	415
416	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	416
417	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	417
418	0	0	0	91	659	711	486	309	235	48	77	12	553	0	2628	418
419	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	419
420	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	420
421	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	421
422	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	422
423	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	423
424	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	424
425	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	425
426	0	0	0	434	2579	6	0	0	0	0	0	0	162	0	3019	426
427	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	427
428	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	428
429	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	429
430	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	430
431	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	431
432	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	432
433	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	433
434	0	0	0	2786	383	12	0	0	0	0	0	0	0	0	3181	434
435	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	435
436	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	436
437	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	437
438	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	438
439	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	439
440	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	440
441	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	441
442	0	0	0	1524	1649	8	0	0	0	0	0	0	0	0	3181	442
443	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	443
444	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	444
445	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	445
446	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	446
447	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	447
448	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	448
449	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	449
450	0	0	0	2002	184	2	0	0	0	0	0	0	993	0	2188	450
451	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	451
452	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	452
453	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	453
454	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	454
455	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	455
456	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	456
457	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	457
458	0	0	0	324	1855	9	0	0	0	0	0	0	993	0	2188	458
459	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	459
460	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	460
461	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	461
462	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	462
463	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	463
464	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	464
465	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	465
466	0	0	0	224	871	888	198	7	0	0	0	0	993	0	2188	466
467	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	467
468	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	468
469	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	469
470	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	470
471	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	471
472	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	472
473	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	473
474	0	0	0	180	808	937	255	8	0	0	0	0	993	0	2188	474

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
475	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	475
476	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	476
477	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	477
478	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	478
479	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	479
480	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	480
481	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	481
482	0	0	0	133	391	826	829	9	0	0	0	0	993	0	2188	482
483	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	483
484	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	484
485	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	485
486	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	486
487	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	487
488	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	488
489	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	489
490	0	0	0	40	145	690	1306	7	0	0	0	0	993	0	2188	490
491	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	491
492	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	492
493	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	493
494	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	494
495	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	495
496	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	496
497	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	497
498	0	0	0	258	404	617	901	8	0	0	0	0	993	0	2188	498
499	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	499
500	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	500
501	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	501
502	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	502
503	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	503
504	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	504
505	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	505
506	0	0	0	232	789	971	190	6	0	0	0	0	993	0	2188	506
507	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	507
508	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	508
509	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	509
510	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	510
511	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	511
512	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	512
513	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	513
514	0	0	0	1899	1274	8	0	0	0	0	0	0	0	0	3181	514
515	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	515
516	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	516
517	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	517
518	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	518
519	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	519
520	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	520
521	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	521
522	0	0	0	2328	845	8	0	0	0	0	0	0	0	0	3181	522
523	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	523
524	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	524
525	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	525
526	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	526
527	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	527
528	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	528
529	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	529
530	0	0	0	1618	1555	8	0	0	0	0	0	0	0	0	3181	530
531	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	531
532	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	532
533	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	533
534	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	534
535	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	535
536	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	536
537	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	537
538	0	0	0	1793	1380	8	0	0	0	0	0	0	0	0	3181	538
539	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	539
540	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	540
541	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	541
542	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	542
543	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	543
544	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	544
545	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	545
546	0	0	0	958	2215	8	0	0	0	0	0	0	0	0	3181	546
547	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	547
548	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	548
549	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	549
550	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	550
551	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	551
552	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	552
553	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	553

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
554	0	0	0	1698	1475	8	0	0	0	0	0	0	0	0	3181	554
555	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	555
556	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	556
557	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	557
558	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	558
559	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	559
560	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	560
561	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	561
562	0	0	0	2790	383	8	0	0	0	0	0	0	0	0	3181	562
563	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	563
564	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	564
565	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	565
566	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	566
567	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	567
568	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	568
569	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	569
570	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	570
571	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	571
572	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	572
573	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	573
574	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	574
575	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	575
576	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	576
577	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	577
578	0	0	0	2952	196	33	0	0	0	0	0	0	0	0	3181	578
579	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	579
580	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	580
581	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	581
582	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	582
583	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	583
584	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	584
585	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	585
586	0	0	0	756	1429	3	0	0	0	0	0	0	993	0	2188	586
587	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	587
588	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	588
589	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	589
590	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	590
591	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	591
592	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	592
593	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	593
594	0	0	0	231	1953	4	0	0	0	0	0	0	993	0	2188	594
595	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	595
596	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	596
597	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	597
598	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	598
599	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	599
600	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	600
601	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	601
602	0	0	0	902	1283	3	0	0	0	0	0	0	993	0	2188	602
603	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	603
604	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	604
605	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	605
606	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	606
607	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	607
608	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	608
609	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	609
610	0	0	0	579	1605	4	0	0	0	0	0	0	993	0	2188	610
611	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	611
612	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	612
613	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	613
614	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	614
615	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	615
616	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	616
617	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	617
618	0	0	0	1258	927	3	0	0	0	0	0	0	993	0	2188	618
619	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	619
620	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	620
621	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	621
622	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	622
623	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	623
624	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	624
625	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	625
626	0	0	0	899	1283	6	0	0	0	0	0	0	993	0	2188	626
627	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	627
628	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	628
629	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	629
630	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	630
631	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	631
632	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	632

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
633	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	633
634	0	0	0	1200	982	6	0	0	0	0	0	0	993	0	2188	634
635	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	635
636	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	636
637	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	637
638	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	638
639	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	639
640	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	640
641	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	641
642	0	0	0	184	337	472	1192	3	0	0	0	0	993	0	2188	642
643	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	643
644	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	644
645	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	645
646	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	646
647	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	647
648	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	648
649	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	649
650	0	0	0	78	175	352	1579	4	0	0	0	0	993	0	2188	650
651	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	651
652	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	652
653	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	653
654	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	654
655	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	655
656	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	656
657	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	657
658	0	0	0	675	770	400	340	3	0	0	0	0	993	0	2188	658
659	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	659
660	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	660
661	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	661
662	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	662
663	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	663
664	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	664
665	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	665
666	0	0	0	712	775	395	303	3	0	0	0	0	993	0	2188	666
667	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	667
668	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	668
669	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	669
670	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	670
671	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	671
672	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	672
673	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	673
674	0	0	0	721	762	407	294	4	0	0	0	0	993	0	2188	674
675	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	675
676	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	676
677	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	677
678	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	678
679	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	679
680	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	680
681	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	681
682	0	0	0	27	122	327	1709	3	0	0	0	0	993	0	2188	682
683	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	683
684	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	684
685	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	685
686	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	686
687	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	687
688	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	688
689	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	689
690	0	0	0	365	862	526	432	3	0	0	0	0	993	0	2188	690
691	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	691
692	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	692
693	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	693
694	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	694
695	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	695
696	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	696
697	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	697
698	0	0	0	431	213	1541	3	0	0	0	0	0	993	0	2188	698
699	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	699
700	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	700
701	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	701
702	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	702
703	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	703
704	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	704
705	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	705
706	0	0	0	1558	1452	9	0	0	0	0	0	0	162	0	3019	706
707	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	707
708	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	708
709	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	709
710	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	710
711	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	711

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
712	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	712
713	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	713
714	0	0	0	1297	1714	8	0	0	0	0	0	0	162	0	3019	714
715	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	715
716	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	716
717	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	717
718	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	718
719	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	719
720	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	720
721	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	721
722	0	0	0	0	1847	1164	8	0	0	0	0	0	162	0	3019	722
723	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	723
724	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	724
725	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	725
726	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	726
727	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	727
728	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	728
729	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	729
730	0	0	0	0	2236	758	25	0	0	0	0	0	162	0	3019	730
731	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	731
732	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	732
733	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	733
734	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	734
735	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	735
736	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	736
737	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	737
738	0	0	0	0	2276	729	14	0	0	0	0	0	162	0	3019	738
739	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	739
740	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	740
741	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	741
742	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	742
743	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	743
744	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	744
745	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	745
746	0	0	0	0	2783	231	5	0	0	0	0	0	162	0	3019	746
747	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	747
748	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	748
749	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	749
750	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	750
751	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	751
752	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	752
753	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	753
754	0	0	0	0	2432	567	20	0	0	0	0	0	162	0	3019	754
755	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	755
756	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	756
757	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	757
758	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	758
759	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	759
760	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	760
761	0	0	0	245	0	0	0	0	0	0	0	0	2936	0	245	761
762	0	0	245	270	294	255	301	269	322	335	287	297	306	0	2875	762
763	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	763
764	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	764
765	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	765
766	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	766
767	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	767
768	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	768
769	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	769
770	0	0	0	1016	800	135	195	0	0	0	0	0	1035	0	2146	770
771	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	771
772	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	772
773	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	773
774	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	774
775	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	775
776	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	776
777	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	777
778	0	0	0	1211	800	135	0	0	0	0	0	0	1035	0	2146	778
779	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	779
780	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	780
781	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	781
782	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	782
783	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	783
784	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	784
785	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	785
786	0	0	0	1750	390	6	0	0	0	0	0	0	1035	0	2146	786
787	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	787
788	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	788
789	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	789
790	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	790

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
791	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	791
792	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	792
793	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	793
794	0	0	0	195	97	0	0	0	0	0	0	0	2889	0	292	794
795	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	795
796	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	796
797	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	797
798	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	798
799	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	799
800	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	800
801	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	801
802	0	0	0	1843	944	385	9	0	0	0	0	0	0	0	3181	802
803	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	803
804	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	804
805	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	805
806	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	806
807	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	807
808	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	808
809	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	809
810	0	0	0	1338	297	194	14	0	0	0	0	0	1338	0	1843	810
811	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	811
812	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	812
813	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	813
814	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	814
815	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	815
816	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	816
817	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	817
818	0	0	0	481	400	62	1	0	0	0	0	0	2237	0	944	818
819	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	819
820	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	820
821	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	821
822	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	822
823	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	823
824	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	824
825	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	825
826	0	0	0	1862	430	270	610	9	0	0	0	0	0	0	3181	826
827	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	827
828	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	828
829	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	829
830	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	830
831	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	831
832	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	832
833	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	833
834	0	0	0	1302	1323	273	277	6	0	0	0	0	0	0	3181	834
835	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	835
836	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	836
837	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	837
838	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	838
839	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	839
840	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	840
841	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	841
842	0	0	0	974	1485	348	367	7	0	0	0	0	0	0	3181	842
843	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	843
844	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	844
845	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	845
846	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	846
847	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	847
848	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	848
849	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	849
850	0	0	0	864	1100	631	441	142	3	0	0	0	0	0	3181	850
851	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	851
852	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	852
853	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	853
854	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	854
855	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	855
856	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	856
857	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	857
858	0	0	0	2118	167	510	379	7	0	0	0	0	0	0	3181	858
859	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	859
860	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	860
861	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	861
862	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	862
863	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	863
864	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	864
865	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	865
866	0	0	0	550	566	483	3	0	0	0	0	0	1579	0	1602	866
867	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	867
868	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	868
869	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	869

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
870	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	870
871	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	871
872	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	872
873	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	873
874	0	0	0	499	576	502	2	0	0	0	0	0	1602	0	1579	874
875	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	875
876	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	876
877	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	877
878	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	878
879	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	879
880	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	880
881	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	881
882	0	0	0	1114	1137	927	3	0	0	0	0	0	0	0	3181	882
883	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	883
884	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	884
885	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	885
886	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	886
887	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	887
888	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	888
889	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	889
890	0	0	0	479	1063	834	610	189	6	0	0	0	0	0	3181	890
891	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	891
892	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	892
893	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	893
894	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	894
895	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	895
896	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	896
897	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	897
898	0	0	0	325	1120	630	328	775	3	0	0	0	0	0	3181	898
899	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	899
900	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	900
901	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	901
902	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	902
903	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	903
904	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	904
905	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	905
906	0	0	0	511	53	2	0	0	0	0	0	0	2615	0	566	906
907	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	907
908	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	908
909	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	909
910	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	910
911	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	911
912	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	912
913	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	913
914	0	0	0	276	1098	386	110	112	649	163	48	76	263	0	2918	914
915	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	915
916	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	916
917	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	917
918	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	918
919	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	919
920	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	920
921	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	921
922	0	0	0	86	84	59	1	0	0	0	0	0	2951	0	230	922
923	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	923
924	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	924
925	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	925
926	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	926
927	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	927
928	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	928
929	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	929
930	0	0	0	564	735	1070	812	0	0	0	0	0	0	0	3181	930
931	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	931
932	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	932
933	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	933
934	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	934
935	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	935
936	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	936
937	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	937
938	0	0	0	453	889	1029	793	0	0	0	0	0	17	0	3164	938
939	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	939
940	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	940
941	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	941
942	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	942
943	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	943
944	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	944
945	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	945
946	0	0	0	1529	1652	0	0	0	0	0	0	0	0	0	3181	946
947	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	947
948	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	948

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
949	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	949
950	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	950
951	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	951
952	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	952
953	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	953
954	0	0	0	1679	917	583	2	0	0	0	0	0	0	0	3181	954
955	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	955
956	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	956
957	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	957
958	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	958
959	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	959
960	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	960
961	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	961
962	0	0	0	248	2925	8	0	0	0	0	0	0	0	0	3181	962
963	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	963
964	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	964
965	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	965
966	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	966
967	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	967
968	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	968
969	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	969
970	0	0	0	2598	248	80	116	105	34	0	0	0	0	0	3181	970
971	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	971
972	0	0	0	2478	241	248	184	0	0	0	0	30	0	0	3181	972
973	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	973
974	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	974
975	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	975
976	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	976
977	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	977
978	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	978
979	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	979
980	0	0	0	3112	69	0	0	0	0	0	0	0	0	0	3181	980
981	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	981
982	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	982
983	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	983
984	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	984
985	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	985
986	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	986
987	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	987
988	0	0	0	1739	191	390	53	226	579	3	0	0	0	0	3181	988
989	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	989
990	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	990
991	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	991
992	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	992
993	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	993
994	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	994
995	0	0	0	982	0	0	0	0	0	0	0	0	2199	0	982	995
996	0	0	166	1290	1018	347	48	126	25	18	9	134	0	0	3181	996
997	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	997
998	0	0	0	867	1321	0	0	0	0	0	0	50	943	0	2238	998
999	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	999
1000	0	0	0	375	743	464	560	586	449	0	0	4	0	0	3181	1000
1001	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1001
1002	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1002
1003	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1003
1004	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1004
1005	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1005
1006	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1006
1007	0	0	0	167	0	0	0	0	0	0	0	0	3014	0	167	1007
1008	0	0	167	184	267	299	265	268	580	440	399	312	0	0	3181	1008
1009	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1009
1010	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1010
1011	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1011
1012	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1012
1013	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1013
1014	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1014
1015	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1015
1016	0	0	0	1151	1113	750	167	0	0	0	0	0	0	0	3181	1016
1017	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1017
1018	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1018
1019	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1019
1020	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1020
1021	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1021
1022	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1022
1023	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1023
1024	0	0	0	2928	175	78	0	0	0	0	0	0	0	0	3181	1024
1025	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1025
1026	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1026
1027	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1027

Column Frequencies for 31113652 TYPE=oneasc FORM 1 CARD 1 (COL=0)
Source: The Roper Center, 07/11/2024 Records = 3181

COL	&	-	0	1	2	3	4	5	6	7	8	9	BLANK	OTHER	NONBLNK	COL
1028	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1028
1029	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1029
1030	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1030
1031	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1031
1032	0	0	0	757	1063	1260	58	28	15	0	0	0	0	0	3181	1032
1033	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1033
1034	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1034
1035	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1035
1036	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1036
1037	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1037
1038	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1038
1039	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1039
1040	0	0	0	579	546	236	0	0	0	0	0	0	1820	0	1361	1040
1041	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1041
1042	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1042
1043	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1043
1044	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1044
1045	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1045
1046	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1046
1047	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1047
1048	0	0	0	1336	1609	236	0	0	0	0	0	0	0	0	3181	1048
1049	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1049
1050	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1050
1051	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1051
1052	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1052
1053	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1053
1054	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1054
1055	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1055
1056	0	0	0	263	862	1112	607	269	68	0	0	0	0	0	3181	1056
1057	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1057
1058	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1058
1059	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1059
1060	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1060
1061	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1061
1062	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1062
1063	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1063
1064	0	0	0	668	645	963	554	351	0	0	0	0	0	0	3181	1064
1065	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1065
1066	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1066
1067	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1067
1068	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1068
1069	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1069
1070	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1070
1071	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1071
1072	0	0	0	215	2966	0	0	0	0	0	0	0	0	0	3181	1072
1073	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1073
1074	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1074
1075	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1075
1076	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1076
1077	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1077
1078	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1078
1079	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1079
1080	0	0	0	2918	260	3	0	0	0	0	0	0	0	0	3181	1080
1081	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1081
1082	0	0	0	0	0	0	0	0	0	0	0	0	3181	0	0	1082
1083	0	0	0	650	223	86	67	0	0	0	0	0	2155	0	1026	1083
1084	0	0	0	0	0	0	0	0	0	0	0	0	0	3181	3181	1084
1085	0	0	208	202	416	437	441	383	336	298	268	192	0	0	3181	1085
1086	0	0	321	347	301	326	338	280	284	296	292	396	0	0	3181	1086
1087	0	0	303	286	384	393	280	291	293	300	308	343	0	0	3181	1087
1088	0	0	312	317	295	310	379	281	381	296	322	288	0	0	3181	1088