Report Regarding Consumption Patterns of Premium Cigars –

Updated Analysis of PATH, Wave 1 through Wave 6

8 January 2024

Consilium Sciences
(An affiliate of Venebio Group, LLC)

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TABLE OF CONTENTS

TABLE OF CONTENTS 2
LIST OF FIGURES 4
LIST OF TABLES 4
ABBREVIATIONS 5
EXECUTIVE SUMMARY 6
1 BACKGROUND 10
DATA ANALYTICS 11
1.1 Data Source 11
1.2 Measures 11
1.3 Analyses 14
1.4 Analyses Differences Between Reports 14
2 RESULTS 16
2.1 Prevalence of Youth Cigar Usage, Wave 1 – Wave 6 16
2.2 Prevalence of Adult Cigar Usage, Wave 1 – Wave 6 20
2.3 Demographic Characteristics of Cigar and Cigarette Users, Wave 1 – Wave 6 23
2.4 Frequency and Intensity of Premium Cigar Use, Wave 1 – Wave 6 24
2.5 Premium Cigars, Tobacco Initiation and Progression of Use of Other Tobacco Products, Wave 1 – Wave 6 29
2.5.1 Age at Initiation 29
2.5.2 Progression to Everyday Cigarette Smoking 31
2.5.3 Dual Use of Premium Cigars and Other Tobacco Products, Wave 1 – Wave 6 39
3 CONCLUSIONS 46
Appendix A. Table/Figure Mapping to July 2018 Report. 48
Appendix B. Demographic Characteristics of Adult Tobacco Users, Wave 1 to Wave 6 49
Appendix C. Plotted Value Table for Figures. 53
Prevalence of Cigar Usage Among Youth Aged 12-17, Wave 1 to Wave 6 (Figure 2 plotted values) 53
Prevalence of Cigar Usage Among Adults Aged 18 and Older, Wave 1 to Wave 6 (Figure 3 plotted values) 54
Demographics of Adult Tobacco Users, Aged 18 and Older, Wave 1 to Wave 6 (Figure B-1 plotted values) 55
Frequency and Intensity of Tobacco Use, Wave 1 to Wave 6 (Figure 4 and 5 plotted values) 71

Initiation, Age at First Regular Tobacco Use, Wave 1 to Wave 6 (Figure 6 plotted values) 74
Dual Use of Cigars and Cigarettes, Wave 1 to Wave 6 (Figure 7 plotted values) 78
Appendix D. Unflavored Premium Cigar Smoking by Cigarette Smoking Status 83
Appendix E. Traditional Brand and Product Names Reported by PATH Youth and Adult Participants 85
Traditional Cigar Brand Name Reported by Youth Participants 85
Traditional Cigar Product Name Reported by Youth Participants 86
Traditional Cigar Brand Name Reported by Adult Participants 89
Traditional Cigar Product Name Reported by Adult Participants 93

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LIST OF FIGURES

Figure 1. Images of cigar types, as presented to participants in the Population Assessment of Tobacco & Health (PATH) Study. 13
Figure 2. Prevalence of Cigar Usage Among Youth Aged 12-17, Wave 1 to Wave 6. 18
Figure 3. Prevalence of Cigar Usage Among Adults, Aged 18 Years and Older, Wave 1 to Wave 6. 21
Figure 4. Frequency of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6 25
Figure 5. Intensity of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6. 27
Figure 6. Initiation Age at First Regular Use by Cigar Type and Cigarettes, Wave 1 to Wave 6. 30
Figure 7. Dual Use of Cigars and Cigarettes, Wave 1 to Wave 6. 40
Figure B- 1. Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, ... 49

LIST OF TABLES

Table 1. PATH Survey Data Collections, Timing and Number of Participants 11
Table 2. Differences between RUFs and PUFs and their Practical Impact on Analyses 15
Table 3. Progression among Current Cigar Smoker and Non-current Tobacco User from Not Everyday Cigarette Smoker to Everyday Cigarette Smoker, Wave 1 to Wave 3, Wave 5, and Wave 6, as well as Wave 4 to Wave 5 and Wave 6. 34
Table 4. Progression among Current Cigar Smoker and Non-current Tobacco User from Not Some Day Cigarette Smoker to Some Day Cigarette Smoker, Wave 1 to Wave 3, Wave 5, and Wave 6, as well as Wave 4 to Wave 5 and Wave 6. 36
Table 5. First Product Initiated Among Current Dual Users of Premium Cigars and Cigarettes, Wave 1, Wave 4, and Wave 6 39
Table 6. Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 to Wave 6. 44
Table A- 1. Mapping of tables between original July 2018 report on PATH Waves 1-3 and the current updated report on PATH Waves 1-6 48
Table C- 1. Prevalence of Cigar Usage Among Youth Aged 12-17, Wave 1 to Wave 6 53
Table C- 2. Prevalence of Cigar Usage Among Adults, Aged 18 Years and Older, Wave 1 to Wave 6 54
Table C- 3. Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6 55
Table C- 4. Frequency and Intensity of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6 71
Table C- 5. Initiation, Age at First Regular Use by Cigar Type and Cigarettes, Wave 1 to Wave 6 74
Table C- 6. Dual Use of Cigars and Cigarettes, Waves 1 to Wave 6 78
Table D- 1. Unflavored Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 to Wave 6 83
Table E- 1. Traditional cigar brand name reported per wave by youth participants, Wave 1-Wave 6. 85
Table E- 2. Traditional cigar product name reported per wave by youth participants, Wave 1-Wave 6. 86
Table E- 3. Traditional cigar brand name reported per wave by adult participants, Wave 1-Wave 6. 89
Table E- 4. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6. 93

ABBREVIATIONS

ATS	Adult Telephone Survey
CI	Confidence Interval
CTP	Center for Tobacco Products
FDA	US Food and Drug Administration
IQR	Interquartile Range
ICPSR	Inter-university Consortium for Political and Social Research
NA	Not applicable
NASEM	National Academies of Sciences, Engineering, and Medicine
NIH	National Institutes of Health
p30d	Past 30 days
PATH	Population Assessment of Tobacco and Health Study
PUFs	Public-Use Files
RUFs	Restricted-Use Files
U.S.	United States of America

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EXECUTIVE SUMMARY

In July 2018, three cigar industry trade groups (the Cigar Association of America, Inc., Cigar Rights of America, and the International Premium Cigar and Pipe Retailers Association (now the Premium Cigar Association)) commissioned an independent expert report examining usage patterns of premium cigars in U.S. youth and adults ("July 2018 Report"). The July 2018 Report, entitled "Report Regarding Consumption Patterns of Premium Cigars,"[1] analyzed results from the Population Assessment of Tobacco and Health ("PATH") Study to examine use prevalence and usage patterns of premium cigars as well as demographic characteristics of users. The PATH Study, administered by FDA, NIH, and NIDA, and the only study of its kind, follows adult and youth participants over time with repeated survey data collections. This allows for ongoing evaluation of nationally representative estimates of tobacco utilization, beliefs, and health outcomes in the United States. At the time of the July 2018 Report, three PATH Study waves were available for analysis: Wave 1 (collected September 2013 – December 2014); Wave 2 (collected October 2014 – October 2015), and Wave 3 (collected October 2015 – October 2016).

Since the completion of the July 2018 Report, additional PATH data have been released publicly. In June 2022, an update was issued examining Wave 4 (collected December 2016 – January 2018) and Wave 5 (collected December 2018 – November 2019) full youth and adult data collections, as well as Wave 4.5 (collected December 2017 – December 1, 2018) youth-only data collection ("June 2022 Report").[2] In November 2023, an abbreviated update was issued on analyses of Wave 5.5 (collected December 2019 – December 2020) with youth-only data collections and Wave 6 (collected March 2021-November 2021).

This report – the third update to the July 2018 Report ("January 2024 Report") continues the PATH data analyses. It further supplements prior results with the most recently released PATH data to update estimates of premium cigar use prevalence and usage patterns.[3] Specifically, it provides an analysis of Wave 5.5 (collected December 2019 – December 2020) with youth-only data collections and Wave 6 (collected March 2021-November 2021) with full youth and adult data collections. An additional adult data collection is also included, combining young adult (age 18-19) Wave 5.5 data with additional adult (ages 20 and older) data collected as part of the PATH-Adult Telephone Survey (PATH-ATS, collected September 2020-December 2020).

Consistent with the conclusions of the July 2018 Report and the July 2022 Report, the January 2024 Report continues to demonstrate that premium cigars, including flavored premium cigars, are used in different ways and by different populations than other tobacco products. *Specifically, while youth usage of premium cigars was extremely rare in early waves, it is completely undetected in the most recent PATH data collections.* It also demonstrates that adult premium cigar consumers are older males, with

[1] Cigar Association of America, Inc. Comment to Docket No. FDA-2017-N-6107. Regulation of Premium Cigars.
[2] Consilium Sciences. Report Regarding Consumption Patterns of Premium Cigars – Updated Analysis of PATH, Wave 1 through Wave 5. 23 June 2022. The July 2022 Report was commissioned by the Cigar Association of America, Inc., Davidoff of Geneva, Inc., SWI-DE, LLC d/b/a Drew Estate, General Cigar Company and Tabacalera USA.
[3] Updates to certain data tables in the June 2022 Report were provided to the Office of Management and Budget as part of the meeting Drew Estate had with that office on November 7, 2023. The January 2024 Report represents the full update.

higher educational levels and socioeconomic status, who use them only 1-2 days per month, and then just 1-2 cigars per day.

The January 2024 Report, similar to the July 2018 Report and the July 2022 Report, presents data on "overall premium cigars" and "unflavored premium cigars." It does not directly present data on "flavored premium cigars." This is solely because the prevalence of use and the number of data records available for this category is so low that reliable statistical calculations cannot be performed on a "flavored premium cigar" dataset. Moreover, as demonstrated throughout this Report, the analysis on premium cigars shows no statistically significant differences whether looking at "overall premium cigars" or "unflavored premium cigars" (or, by extension, "flavored premium cigars"), demonstrating there are no differences in how any premium cigar products are used by adult consumers. Because of the low prevalence (or in some case absence of) reported usage of flavored premium cigars, the charts in this Report do not present any "flavored" premium cigar data in a stand-alone category.

The January 2024 Report is consistent with the July 2018 Report and July 2022 Report:

- Youth Usage: Youth usage of premium cigars is lower than any other tobacco product. *Only 0.09%, 0.05%, and 0.02% of youth reported use of premium cigars in Waves 1, 2 and 3 respectively, and in fact not a single youth participant reported smoking any premium cigars in Waves 4, 4.5, 5, 5.5, or 6.*
    - No youth participants reported smoking flavored premium cigars in any Wave of the PATH Study.
- Adult Prevalence: Premium cigar usage among adults remained below 1% through all Waves of the PATH Study for overall premium cigar use, unflavored premium cigar use, and by extension flavored premium cigar use.[4]
- Demographics: Demographics of adult premium cigar smokers were unchanged through all Waves of the PATH Study -- this population is comprised typically of white males, mostly 35 years or older, with higher educational levels and socio-economic status.
    - There are no statistically significant demographic differences between the adult users of all premium cigars and unflavored premium cigars, and by extension flavored premium cigars.
    - The demographic data for all Waves is only on adults, *as there were either too few or no reported youth usage of premium cigars to prepare the same analysis.*
- Frequency and Intensity:
    - Across all Waves of the PATH Study approximately 95% of adult premium cigar users smoke occasionally (less than every day).

[4] Throughout the report the term "by extension to flavored premium cigars" is used where there is low or no reported usage of flavored premium cigars. The results for overall premium cigars and unflavored premium cigars are, however, consistent, meaning the conclusions for those categories logically extend to flavored premium cigars.

- Across all Waves of the PATH Study the median number of premium cigars smoked per month was 1.0-2.0 premium cigars.
- Both of these findings apply to overall premium cigars and unflavored premium cigars, and by extension flavored premium cigars.

- Initiation and Progression to Other Tobacco Products:
  - There is no statistically significant difference regarding age of initiation across all Waves of the PATH Study for overall premium cigars, unflavored premium cigars, and by extension flavored premium cigars.
  - There is no statistically significant difference for overall premium cigars, unflavored premium cigars, and by extension flavored premium cigars regarding progression to use of other tobacco products across all Waves of the PATH Study.
    - Progression to everyday smoking among premium cigar users who did not previously smoke cigarettes daily is less than 2% of users.
    - In all Waves of the PATH Study, except for one reported record those premium cigar smokers who progressed to smoking cigarettes smoked only unflavored premium cigars.
    - Most current premium cigar users did not also currently smoke cigarettes, and cigarette smoking frequency and intensity was low among this user group (less than five cigarette smoking days per month, and less than five cigarettes smoked on such days).
    - Current premium cigar dual users did not smoke more premium cigars than those who were not dual users and did not smoke premium cigars with more frequency or intensity than those who were not dual users.

Taken together, the findings presented in this Report are all consistent with those presented in the July 2018 Report and the July 2022 Report, namely: (i) that youth use of premium cigars, unflavored or flavored, is extremely rare (undetected in the most recent PATH data collections); (ii) adult prevalence is below one percent for premium cigars overall, unflavored premium cigars, and by extension flavored premium cigars; and (iii) the demographics of adult premium cigar smokers remained consistent through all Waves of PATH data and for overall premium cigars, unflavored premium cigars, and by extension flavored premium cigars.

Notably, these results are consistent with those from an independently conducted analysis of PATH Wave 1-5 data, presented in a report issued in 2022 by the National Academies of Sciences, Engineering, and Medicine (NASEM)[5]. The NASEM Report, requested and funded by FDA, examined usage patterns and health effects of premium cigars. In sum, the findings based on the more recent Wave 5.5/PATH-ATS and Wave 6 data on premium cigar use in the U.S. simply extend the findings identified in the July

[5] See Appendix D from the 2022 NASEM report: National Academies of Sciences, Engineering, and Medicine 2022. *Premium Cigars: Patterns of Use, Marketing, and Health Effects.* Washington, DC: The National Academies Press. https://doi.org/10.17226/26421.

2018 Report based on Wave 1 through Wave 3 data and the July 2022 Report that also incorporated Wave 4, Wave 4.5, and Wave 5 data. Trends were consistent across the first three waves (2013/14 through 2015/16) and recent results remained consistent or even improved (e.g., undetected youth use in most recent waves) for premium cigars from Wave 4 through Wave 6 (2017/18 through 2021).

1 BACKGROUND

In July 2018, three cigar industry trade associations (the Cigar Association of America, Inc., Cigar Rights of America, and the International Premium Cigar and Pipe Retailers Association (now the Premium Cigar Association) commissioned an independent expert report examining usage patterns of premium cigars in U.S. youth and adults ("July 2018 Report"). The July 2018 Report, entitled "Report Regarding Consumption Patterns of Premium Cigars"[6] detailed results from analyses of the Population Assessment of Tobacco and Health ("PATH") Study to examine use prevalence and usage patterns of premium cigars as well as demographic characteristics of users. The PATH study, administered by FDA and the only study of its kind, follows adult and youth participants over time with periodic survey data collections. This allows for ongoing evaluation, of nationally representative samples, of tobacco utilization, beliefs, and health outcomes in the United States. At the time of the July 2018 report, three PATH study waves were available for analysis: Wave 1 (collected September 2013 – December 2014); Wave 2 (collected October 2014 – October 2015), and Wave 3 (collected October 2015 – October 2016).

Since the completion of the July 2018 Report, additional PATH data has been released publicly. In June 2022, an updated report was issued that examined Wave 4 (collected December 2016 – January 2018) and Wave 5 (collected December 2018 – November 2019) full youth and adult data collections, as well as the Wave 4.5 (collected December 2017 – December 1, 2018) youth-only data collection ("June 2022 Report").[7]

This report – a second update to the July 2018 Report ("January 2024 Report") -- continues the PATH data analyses and supplements the results with the most recently released PATH data to update estimates of premium cigar use prevalence and usage patterns.[8] Specifically, analyses of Wave 5.5 youth (collected December 2019 – December 2020) and the Wave 6 youth and adult (collected March 2021-November 2021) data are included in this report. An additional adult data collection is also included by combining young adult (age 18-19) Wave 5.5 data with additional adult (ages 20 and older) data collected as part of the PATH - Adult Telephone Survey (PATH-ATS, collected September 2020-December 2020).

Similar to the July 2022 Report, this January 2024 Report update details results of analyses of a replication of the original Wave 1 through Wave 3 analyses and is extended to include all currently available PATH data through Wave 6. In addition to use prevalence of premium and other cigar types among youth and adults in the U.S., demographics, age of initiation, as well as estimates of use frequency and intensity are reported. Finally, progression to cigarette smoking and usage patterns of dual users of cigarettes and cigars are examined.

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[6] Cigar Association of America, Inc. Comment to Docket No. FDA-2017-N-6107. Regulation of Premium Cigars.
[7] Consilium Sciences. Report Regarding Consumption Patterns of Premium Cigars – Updated Analysis of PATH, Wave 1 through Wave 5. 23 June 2022. The July 2022 Report was commissioned by the Cigar Association of America, Inc., Davidoff of Geneva, Inc., Drew Estate, General Cigar Company and Tabacalera USA.
[8] Updates to certain data tables in the June 2022 Report were provided to the Office of Management and Budget as part of the meeting Drew Estate had with that office on November 7, 2023. The January 2024 Report represents the full update.

1.1 Data Source

PATH is a longitudinal study of tobacco use by and resulting health effects on youth and adults in the U.S.[9] The PATH Study is conducted and managed collaboratively by the National Institute on Drug Abuse (NIDA), National Institutes of Health (NIH), and FDA's Center for Tobacco Products (CTP). Two waves of follow-up interviews are scheduled with youth participants who complete their first interview, for a total of three waves of participation at minimum. In addition, the PATH Study used a four-stage stratified, address-based, area-probability sampling design at the outset of the study (Wave 1) that oversampled adult tobacco users, African Americans, and young adults (18–24 years). There have been six waves of data collection on youth and adults that are currently available for analysis, along with two additional data collections (Waves 4.5 and 5.5) conducted primarily with youth participants.[10] An additional data collection (Adult Telephone Survey, ATS) was conducted with only adult participants (Table 1). The Wave 5.5 young adult (ages 18-19) data set were combined with the ATS data (ages 20 and older) to provide an additional set of adult estimates, according to instructions provided in the PATH Study public use files user guide[11].

Table 1. PATH Survey Data Collections, Timing and Number of Participants

Wave (Collection Dates)	Adult Participants (n)	Youth Participants (n)
Wave 1 (Sep 2013 – Dec 2014)	32,320	13,651
Wave 2 (Oct 2014 – Oct 2015)	28,362	12,172
Wave 3 (Oct 2015 – Oct 2016)	28,148	11,814
Wave 4 (Dec 2016 – Jan 2018)	33,644	14,793
Wave 4.5 (Dec 2017 – Dec 2018)	Youth Only Collection	12,918
Wave 5 (Dec 2018 – Nov 2019)	32,687	11,976
Wave 5.5 (Dec 2019 – Dec 2020)*	3,628	7,129
Adult Telephone Survey (Sep 2020 – Dec 2020)	8,874†	Adult Only Collection
Wave 6 (Mar 2021 – Nov 2021)	30,516	5,652

* Wave 5.5 was a special data collection focused on youth and young adults ranging in age from 13 to 19.

† The Adult Telephone Survey (ATS) was a special data collection from a subsample of PATH Study adult participants ages 20 or older.

1.2 Measures

Cigar types. Cigars are a diverse category, varying in size and shape, with and without filters, ranging in price from more expensive premium hand-rolled cigars to more economical machine-made cigars. PATH

[9] Hyland, A. et al. (2017). "Design and methods of the Population Assessment of Tobacco and Health (PATH) Study." Tob Control **26**(4): 371-378.

[10] Wave 5.5 was originally planned as a youth only data collection. However, the COVID19 pandemic prompted study administrators to broaden the scope of the data collection to focus on youth and young adults ranging in age from 13 to 19. It should also be noted that federal law changed the legal age of purchase of tobacco products from 18 to 21 in December 2019.

[11] See in particular Page 86 of the *ICPSR Special Collection Public-Use Files User Guide* (https://www.icpsr.umich.edu/files/NAHDAP/documentation/ug37786-all.pdf, Last accessed December 29, 2023).

Study participants report separately whether they used little/filtered cigars, cigarillos, and/or traditional large cigars, with the PATH questionnaire displaying a photo of example products (see Figure 1), describing their physical characteristics, and listing popular brands. The questionnaire first asks participants to consider traditional cigars as follows:

> "Traditional cigars contain tightly rolled tobacco that is wrapped in a tobacco leaf. Some common brands of cigars include Macanudo, Romeo y Julieta, and Arturo Fuente, but there are many others."

Traditional Cigars

Images of cigarillos and filtered cigars are then displayed with the following text description:

> "Cigarillos and filtered cigars are smaller than traditional cigars. They are usually brown. Some are the same size as cigarettes, and some come with tips or filters. Some common brands are Black & Mild, Swisher Sweets, Dutch Masters, Phillies Blunts, Prime Time, and Winchester."

Cigarillos Filtered Cigars

A follow-up question is then asked to distinguish users of filtered cigars (i.e., those who reported smoking cigars with a filter like a cigarette filter) from users of cigarillos (i.e., those who reported smoking cigars with a plastic or wooden tip or without a tip or filter).

While the PATH Study does not ask users specifically about "premium" cigars, researchers attempted to stratify the traditional cigar category into premium and non-premium subtypes using price per unit and/or respondent-provided brand name information[12,13]. The July 2018 Report distinguished premium from non-premium traditional cigars based exclusively on brand and product name information provided by PATH participants.[14] Doing so, however, introduced potential recall error/inconsistency issues that may impact estimate accuracy and validity.

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[12] Corey, C. G. et al. (2018). "US Adult Cigar Smoking Patterns, Purchasing Behaviors, and Reasons for Use According to Cigar Type: Findings From the Population Assessment of Tobacco and Health (PATH) Study, 2013-2014." Nicotine & Tobacco Research **20**(12): 1457-1466.

[13] Persoskie, A. et al (2019). "Cigar package quantity and smoking behavior." BMC Public Health **19**(1): 868.

[14] The brand assignments established by Corey et al. (2018) served as the starting point with adjustment to the brand and product name designations made in consultation with the Cigar Association of America, Cigar Rights of America, and the International Premium Cigar and Pipe Retailers Association. Importantly, usual retail price was

To address this, the July 2022 Report update used a hybrid approach in which traditional cigar users were subcategorized. Brand/product name assignments made in the original July 2018 report were the primary manner in which premium cigar users were identified. Appendix E tabulates the number of participant records reporting traditional cigar brand and product names per wave for youth (Appendix E, Table E- 1 and Table E- 2) and adult (Appendix E, Table E- 3 and Table E- 4) traditional cigar users. In addition, the corresponding brand and product designation (e.g., premium (with "flavored" specified as appropriate), nonpremium) is likewise indicated.

Figure 1. Images of cigar types, as presented to participants in the Population Assessment of Tobacco & Health (PATH) Study. Reproduced from Persoskie et al. (2019).

In addition, for the subset of adult traditional cigar users who could not be subcategorized by reported brand (due to missing information or under-specification in the PUFs), traditional cigar users reporting spending $2.00 or more per cigar (the calculation of which is detailed below under "Package Quantity") were also designated as premium traditional cigar users.[15] Conversely, users who could not be identified based on their reported usual brand and who reported paying $2.00 or less per cigar were designated as non-premium traditional cigar smokers. Corey et al (2018) chose this threshold because 90% of users of the cigar brands identified as having characteristics of premium cigars reported paying $2.00 or more per cigar; in addition, 85% of users of cigar brands identified as having non-premium cigar characteristics reported paying less than this amount per cigar. While this approach yields more participant records than identified in the original July 2018 report, the resulting weighted estimates are not considerably different (See additional commentary on this topic in Section 2.4).

Cigar use. Current use by adults is defined in the PATH Study as those who currently used the cigar type "every day" or "some days."

Current use for youths is defined differently and requires only past 30-day use of cigar products. For the purposes of this report, youth cigar smokers are defined as past 30 day "not light" smokers who have smoked at least 10 cigars in their lifetime. The "not light" requirement was used because brand and product information were only asked of "not light" users.

Cigarette use. Current adult users of cigarettes are identified in the PATH Study as currently using these products "every day" or "some days." A minimum level of lifetime use (≥100 cigarettes) is also required for current established cigarette users. Former adult cigarette smokers are defined as those adult participants who have smoked at least 100 cigarettes in their lifetime and do not now smoke cigarettes. Never cigarette smokers are those adult participants who have smoked fewer than 100 cigarettes in their lifetime.

Current youth cigarette smokers are defined somewhat differently in PATH by requiring only past 30-day use. For purposes of this report, as for youth cigar users, youth cigarette smokers are defined as past 30

not factored in to distinguish premium from non-premium cigar smokers. See pages 15-17 from the July 2018 report for additional details.

[15] Price paid information is not available for the youth datasets.

day “not light” smokers who have smoked at least 10 cigarettes in their lifetime. This requirement was adopted to promote comparability across products.

1.3 Analyses

Descriptive and cross-sectional analyses used weights corresponding to the appropriate wave. Longitudinal analyses used the predicted wave weights in accordance with PATH Study recommendations. Sex (male, female), age, race/ethnicity (White, non-Hispanic, Black, non-Hispanic, Other, non-Hispanic, Hispanic), education (less than high school, General Educational Development [GED], high school, some college or associate degree, bachelor’s degree or more advanced degree), and household poverty and income level were summarized as provided in the datasets. Missing data on these variables were not imputed. However, so-called “imputed” versions of demographic variables were used where available as recommended by the PATH research team (Westat). These variables typically make reasonable inferences based on other PATH Survey documentation to make assignments for otherwise missing sex, age, or race/ethnicity variables, for example.

PATH data public use files (PUFs) were downloaded from the Inter-university Consortium for Political and Social Research (ICPSR 36498 V18 and ICPSR 37786 V8, accessed 2023-09-23)[16]. All calculations were performed using R 4.2.1[17] (R Core Team 2020) and the *survey* package[18] [19] to generate weighted estimates to represent the US civilian, noninstitutionalized adult (18+) and youth (12-17) populations. Estimated standard errors and 95% confidence intervals (CIs) were calculated using the balanced repeated replication method (McCarthy 1969) with Fay’s adjustment set to 0.3 to increase estimate stability (Judkins 1990) as recommended in the PATH documentation.

1.4 Analyses Differences Between Reports

As in the July 2022 Report, the analyses detailed in this report were carried out to align with those described in the July 2018 Report as closely as possible. Deviations were required, however, largely due to subtle but important differences in the source data used for the respective analyses. PUFs were used for the analyses described in the July 2022 Report and the current report whereas restricted-use files (RUFs) were used in those analyses detailed the July 2018 report. Use of the RUFs requires prior administrative approval and can only be accessed and operated upon behind ICPSR firewalls. Furthermore, a disclosure review process is required prior to exporting results from the ICPSR computing environment.

Given that the planned analyses did not require data elements unique to the RUFs (e.g., participant state of residence, biomarker data, tobacco product UPC data), the more readily accessible PUFs were relied

[16] United States Department of Health and Human Services. National Institutes of Health. National Institute on Drug Abuse, and United States Department of Health and Human Services. Food and Drug Administration. Center for Tobacco Products. Population Assessment of Tobacco and Health (PATH) Study [United States] Public-Use Files. Inter-university Consortium for Political and Social Research [distributor], 2023-09-18. https://doi.org/10.3886/ICPSR36498.v18 and Special Collection Public Use Files https://doi.org/10.3886/ICPSR37786.v8.

[17] R Core Team (2022). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL https://www.R-project.org/.

[18] Lumley, T. (2004). "Analysis of complex survey samples." Journal of Statistical Software **9**(1): 1-19.

[19] Lumley, T. (2020). "survey: analysis of complex survey samples". R package version 4.0.

on for the analyses detailed in the July 2022 Report and here. There are, however, three important differences in the data files, including data fields that appear in both sets of files as detailed in Table 2. Two differences relate to increased granularity (specifically with respect to reporting of participant age) and subtle idiosyncrasies of RUFs compared to PUFs. These differences do not practically impact data analysis results. One other difference, however, is substantive. Briefly, the PUFs offer less granularity regarding cigar brand and product names, with many PUF participant records reporting simply "Some other brand [or product]". To counter potential undercounting of cases, Corey et al.'s (2018)4 price per cigar criteria was also incorporated to identify premium cigar users (see Section 2.2 for additional details). This approach can be considered as more conservative than the approach used in the July 2018 report relying on reported brand/product name alone. Slightly more premium cigar user records were identified, thus yielding more of a "worst-case" analysis than the analysis presented in the July 2018 report.

Due to these data source differences (outlined further in Table 2), all Wave 1 through Wave 3 calculations were replicated and presented alongside the Wave 4 through Wave 6 calculations to improve comparability across estimates for each wave. As noted in Section 2.2 and again in Table 2, while subcategorization of traditional cigars yielded increased numbers of records for premium and non-premium cigar users, the corresponding weighted estimates did not differ substantially when PUFs were analyzed, nor did the key take-aways or interpretation. *In summary, while methods used to identify premium cigar users differed somewhat, differences in specific results were negligible and conclusions were identical to those detailed in the July 2018 Report.*

Table 2. Differences between RUFs and PUFs and their Practical Impact on Analyses

Difference between RUF and PUF data	Practical Impact on Analytic Results
1. RUFs include more traditional cigar brand/product information that is abstracted in PUFs (e.g., reported as "Some other brand [or product]"	• This difference means that less-specific brand/product information is available to subcategorize traditional cigar users into premium versus non-premium users. As a result, less premium cigar user records are identified based on brand/product name alone. For example, the Wave 1 PUFs indicate 272 premium cigar user records, whereas the original July 2018 report identified 315 such participant records using the RUFs. For this reason, the $2.00 price paid per cigar threshold was used as a secondary criterion to identify premium cigar users in the PUFs. More premium cigar records are identified, as a result (PUF n=340 vs RUF n=315) by adding this criterion, but the weighted estimates do not differ substantially.
2. RUFs include exact participant ages, whereas PUFs abstract ages to age ranges	• Age of first regular use and current age of participant summaries are tabulated as age categories in this report (Figure 6 and Appendix C, Table C-5 herein) rather than point estimates in the July 2018 report Table 5. The resulting summaries provide a better reflection of the entire age distributions, however, and could thus be considered an improvement upon the original July 2018 report summaries. • The first product initiated among dual users of premium cigars and cigarettes table is less precise in this report (Table 5) since age ranges are compared rather than the specific point estimates used to compile Table 8 on page 36 of the original July 2018 report. This results in a larger share of

	participants indicating initiation at the same age but is otherwise consistent with the key finding that initiation of premium cigars first is rare.
3. RUFs contain more information that, in principle, could be used to identify participants; values are swapped for a small percentage of cases with otherwise similar characteristics in the PUFs to reduce the likelihood of participant identification	• As noted on the *PATH Study Public Use Files User Guide* (page 1), these modifications do not affect overall data quality, but may result in PUF-based estimates that differ slightly (e.g., fraction of percentage points in prevalence estimates and CIs) from those created using the PATH RUFs.

2 RESULTS

As presented in the July 2022 Report update, findings of the updated analyses presented here are organized in the same manner and under the same subheading names as those used in the July 2018 Report. For further ease of comparison between the two sets of analyses, Table A- 1 in Appendix A maps the July 2018 Report results (Tables 1 through 10 and Table 12) to the corresponding figures and tables in this report. While the calculations were conducted to match as closely as possible those in the July 2018 report, some of the output was consolidated into graphical plots to simplify review of results and facilitate comparisons across waves. Specific point estimates, CIs or IQRs, and number of records upon which estimates are based are tabulated for all figure plots (Figures 2-7 and Figure B- 1) in corresponding Appendix C tables.

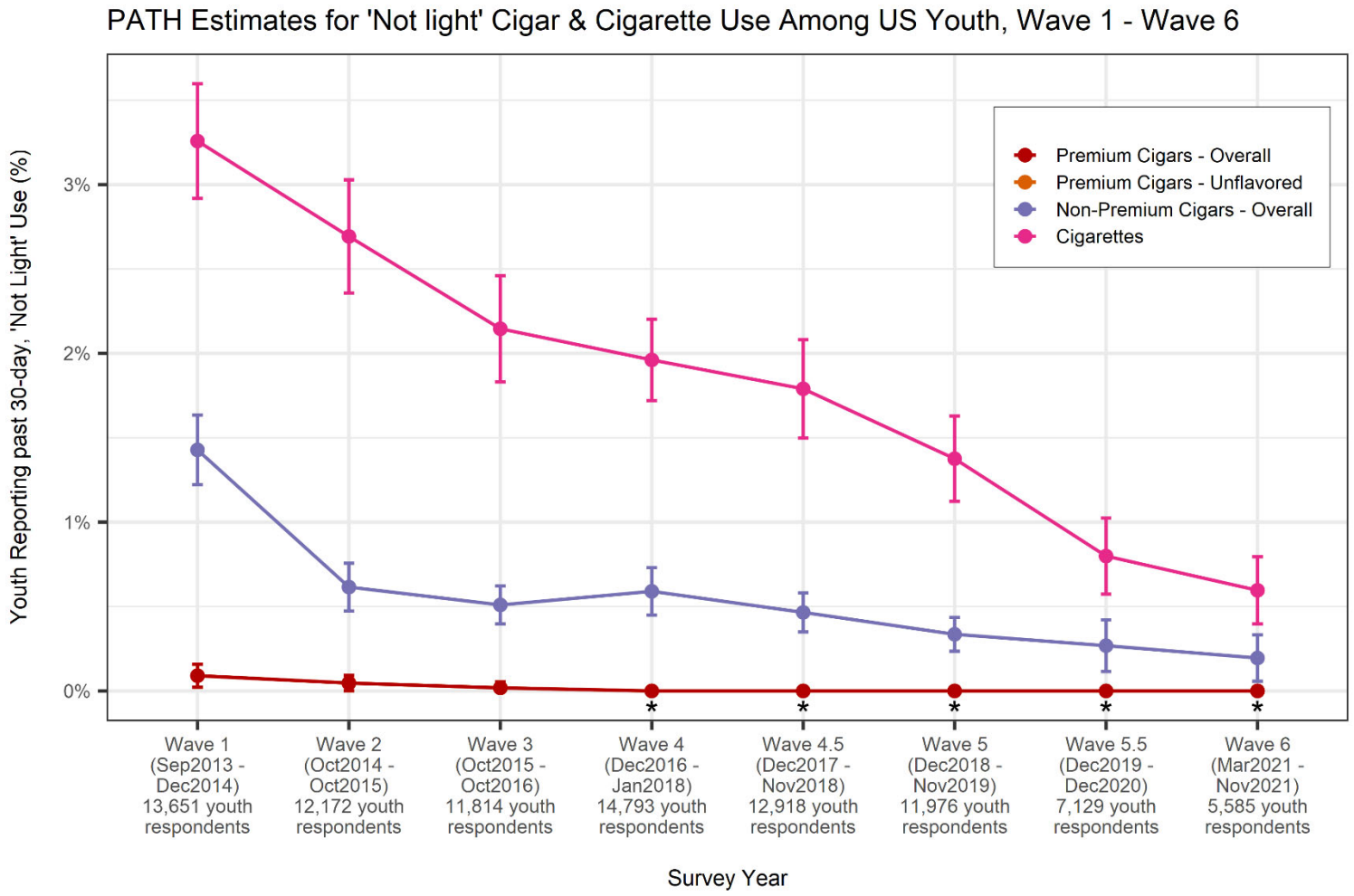
The January 2024 Report, similar to the July 2018 Report and the July 2022 Report, presents data on "overall premium cigars" and "unflavored premium cigars." *It does not directly present data on "flavored premium cigars" simply and only because the number of data records (reflecting prevalence of use) available for this category is so low that reliable statistical calculations cannot be performed on a "flavored premium cigar" dataset.* As demonstrated throughout this report, the premium cigar analysis shows no statistically significant differences whether looking at "overall premium cigars," "unflavored premium cigars," or (by extension) "flavored premium cigars."

2.1 Prevalence of Youth Cigar Usage, Wave 1 – Wave 6

Consistent with the original July 2018 Report and the July 2022 Report, youth past 30 day, "not light" use of cigars continued to be extremely low in Wave 5.5 and 6 (Figure 2 and Appendix C, Table C- 1). ***In fact, and as was the case for Waves 4, 4.5, and 5, not a single youth participant reported smoking premium cigars in Waves 5.5 and 6.*** In addition, and for comparison purposes only, when looking at the PATH data through Wave 6, it is apparent that even though continuing to decline, "not light" cigarette smoking in US

youth is notably higher relative to youth cigar smoking of any type (and particularly so when compared to premium cigars of which there is no reported youth usage in the later data Waves).

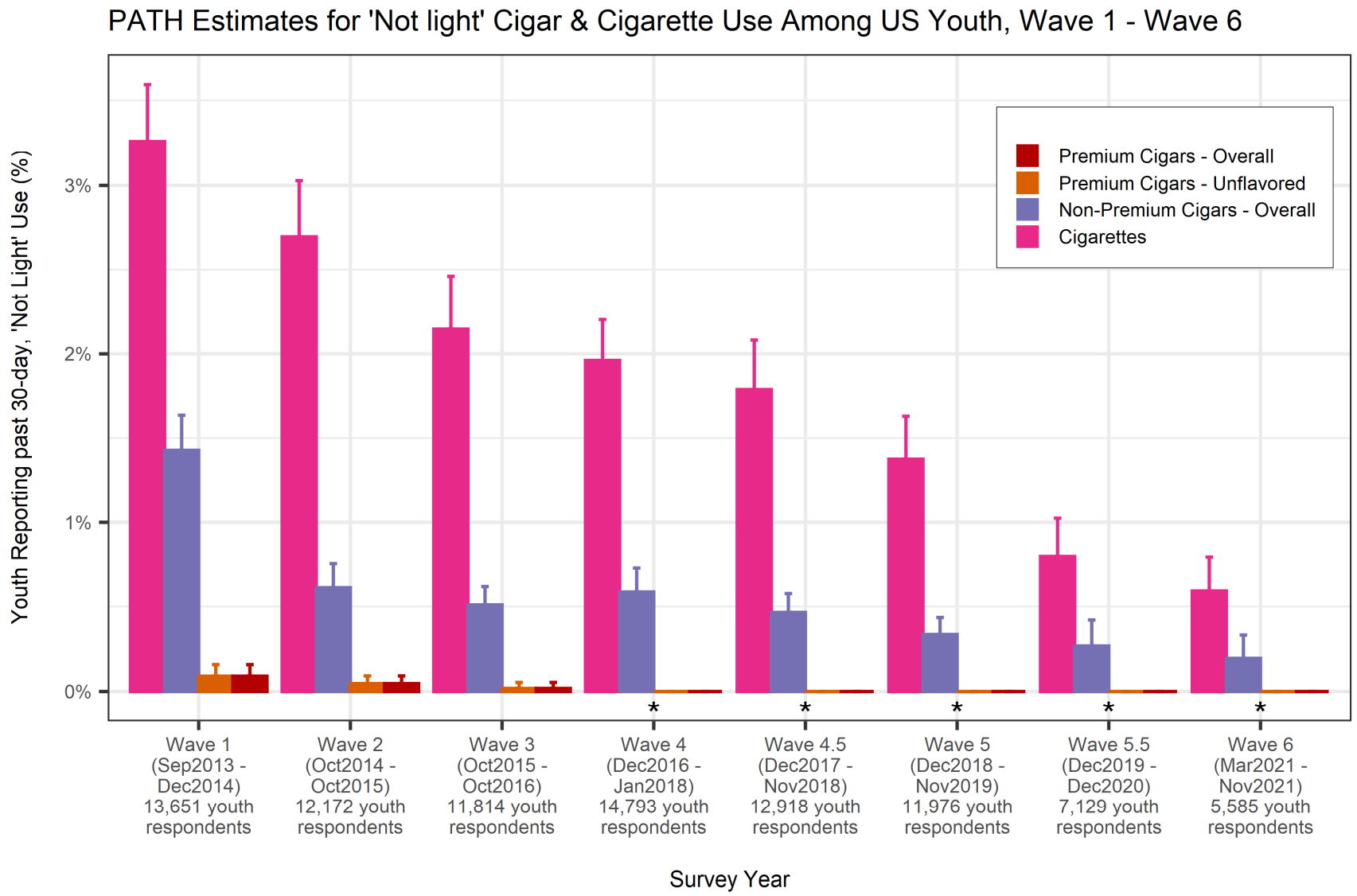
Figure 2. Prevalence of Cigar Usage Among Youth Aged 12-17, Wave 1 to Wave 6.



Note: The "Premium Cigars – Overall" estimates are nearly identical to those for "Premium Cigars – Unflavored". As such the "Premium Cigars – Unflavored" curve is completely masked as it sits underneath the "Premium Cigars – Overall" curve.

**Importantly, premium cigar estimates for Waves 4 through 6 are set to zero because 'not light' (i.e., lifetime use of more than 10 cigars) youth premium cigar use was not detected in Waves 4, 4.5, 5, 5.5, or 6. Three records each in Wave 4 and Wave 4.5 as well as one record each in Wave 5.5 and 6 report past 30-day youth use of premium cigars. None were flavored premium cigars, and the corresponding participants reported consumption of ten traditional cigars or less in their lifetime, thus failing to meet the 'not light' use criteria.*

Figure 2 Alternative (bar chart instead of line chart). Prevalence of Cigar Usage Among Youth Aged 12-17, Wave 1 to Wave 6.

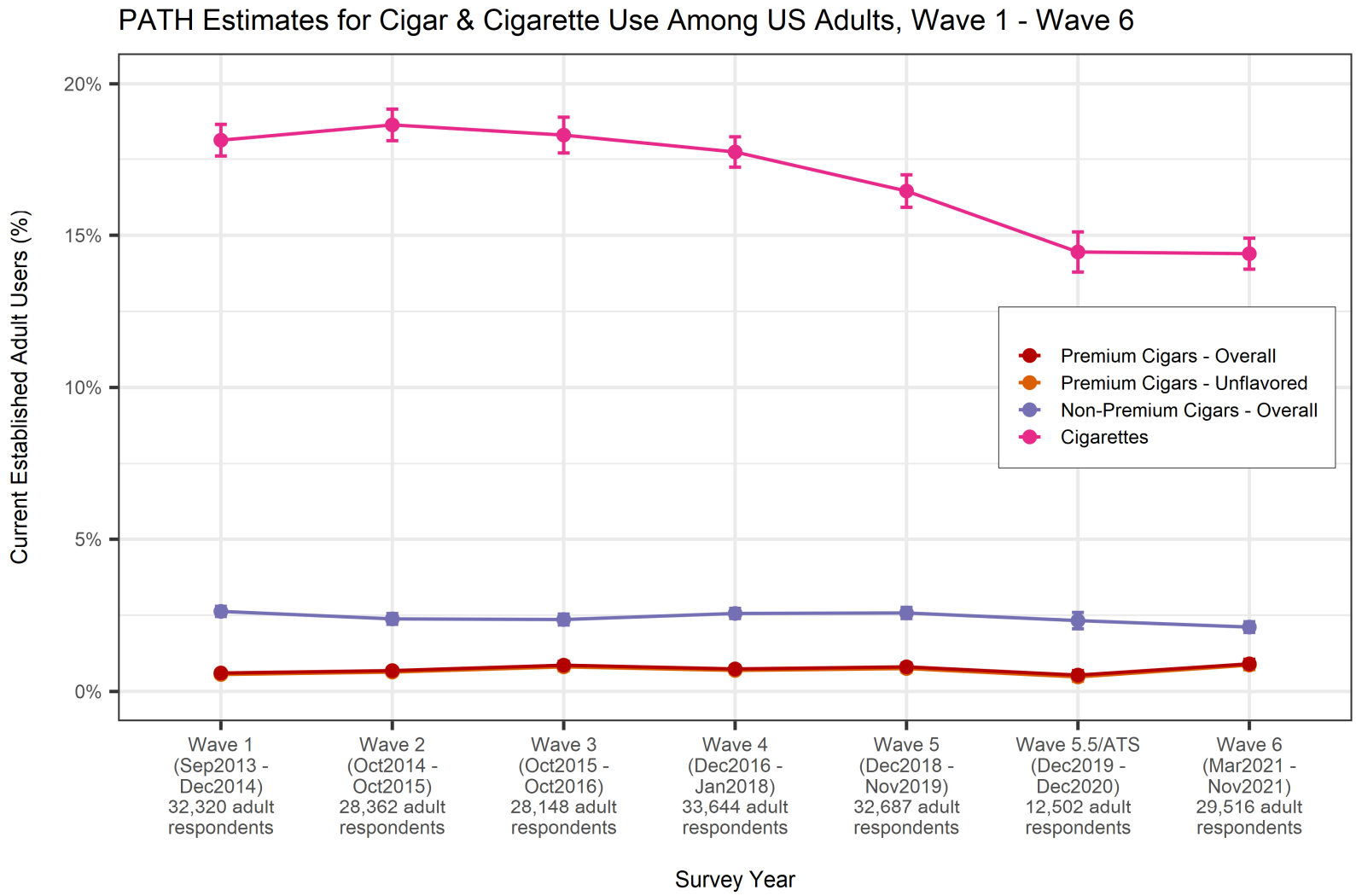


2.2 Prevalence of Adult Cigar Usage, Wave 1 – Wave 6

Trends in adult use of cigars continued to follow a similar pattern to those recognized in the July 2018 Report and July 2022 Report (Figure 3 and Appendix C, Table C- 2). Premium cigar use (overall and unflavored, and by extension flavored) among US adults remained at less than 1%. Use of all non-premium cigars was approximately 2% to 2.5%, and use of cigarillos was 1.5%. Cigar use of any type remained considerably lower than cigarette smoking.[20]

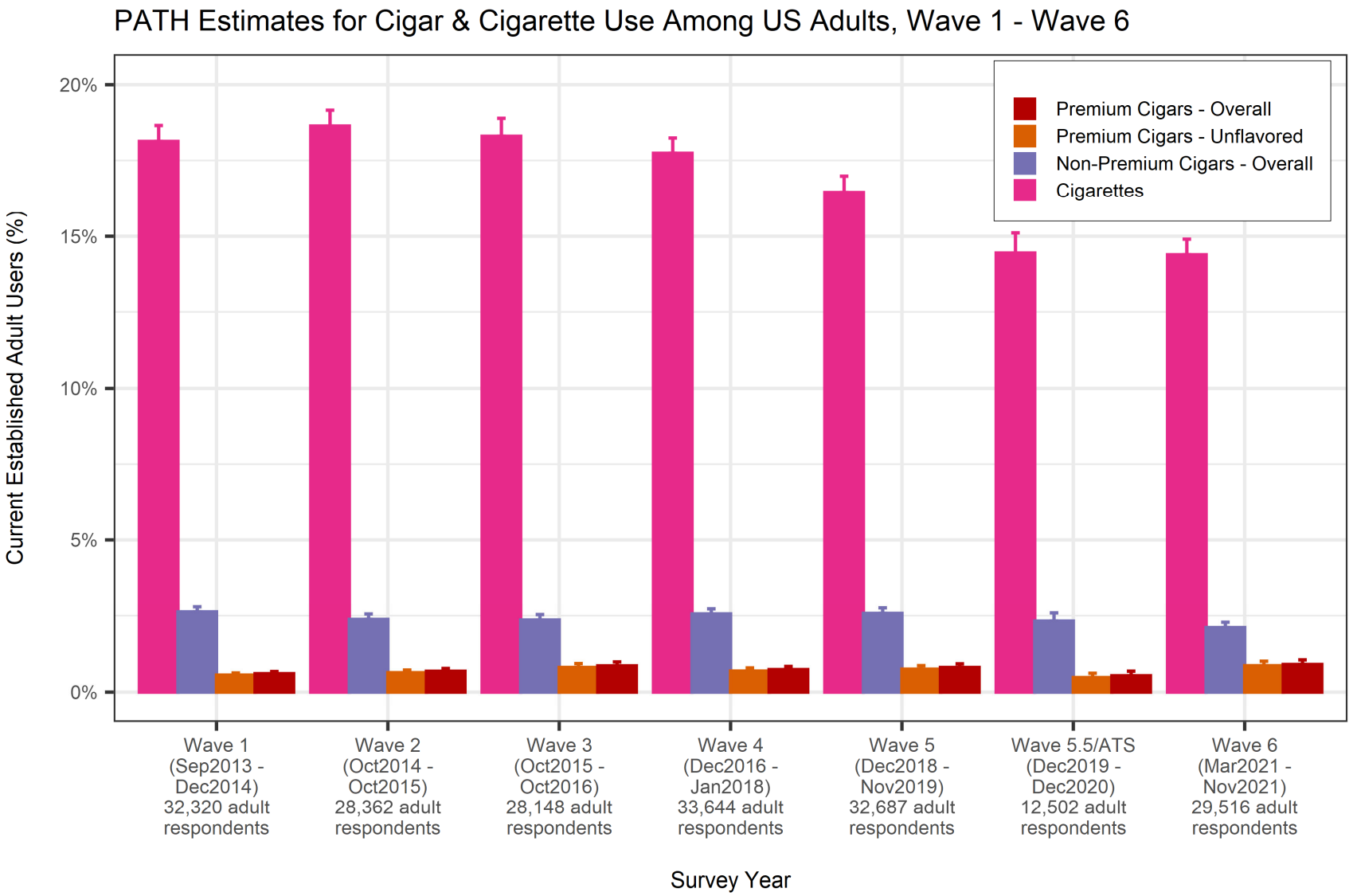
[20] Cigarette smoking continued declining in Waves 5.5/PATH-ATS and Wave 6, with the most current data indicating less than 14.5% of US adults as current established cigarette smokers.

Figure 3. Prevalence of Cigar Usage Among Adults, Aged 18 Years and Older, Wave 1 to Wave 6.



Note: The "Premium Cigars – Overall" estimates are nearly identical to those for "Premium Cigars – Unflavored". As such the "Premium Cigars – Unflavored" curve is nearly completely masked as it sits underneath the "Premium Cigars – Overall" curve.

Figure 3 Alternative (bar chart instead of line chart). Prevalence of Cigar Usage Among Adults, Aged 18 Years and Older, Wave 1 to Wave 6.



2.3 Demographic Characteristics of Cigar and Cigarette Users, Wave 1 – Wave 6

Demographic characteristics of premium cigar users remained largely unchanged through all Waves of PATH data. Premium cigar users (both overall and unflavored, and by extension flavored) are typically white males, more than 50% are 35 years or older (ranging across Waves between 53% to a high of 68% in Wave 6), generally well educated, and financially well-off (Appendix B, Figure B- 1 and Appendix C, Table C- 3). Notably, young adult (ages 18-24) use of premium cigars has declined considerably through the Waves. At Wave 1 (2013/14) approximately 20% of premium cigar users were aged 18-24 whereas in Wave 6 (2021) less than 3% of premium cigar users were in the young adult category.

While users of all cigars and cigarettes continued to be predominately male, the skew remained most dramatic for premium cigars where for both overall and unflavored, approximately 95% or more of users were male across all waves. Users of non-premium traditional cigars were approximately 85% male across all waves. By comparison, cigarillo and filtered cigar users were approximately 70% male, with cigarette users at approximately 54% male.

Across all Waves of data, the demographic trends stayed relatively consistent.[21] Approximately 70-80% of premium cigar users (both overall and unflavored, and by extension flavored) continued to be white, non-Hispanic, and 5-10% were black, non-Hispanic. By comparison, cigarillo users continued to be the most diverse with respect to race/ethnicity with a more even split of black and white non-Hispanic users (approximately 42-47% and 35-37%, respectively, in Waves 4-6). Non-premium traditional and filtered cigar users were 55-60% white, non-Hispanic and approximately 15-25% black, non-Hispanic, and cigarette smokers nearly 70% white, non-Hispanic and approximately 13% black, non-Hispanic. Other or multi-race non-Hispanics comprised approximately 5-10% of users across all examined tobacco products, and Hispanics varied from 10-15% of non-premium cigar and cigarette users. Hispanic use of premium cigar use was 10% or less from Wave 1 through Wave 5.5/PATH-ATS, with an increased point estimate of approximately 18% in Wave 6. However, in the Wave 6 data the 95% confidence interval is wide (8.8% -- 27.1%) indicating estimate instability due to relatively limited data (n=40 records were available). In other words, there were too few samples to calculate a narrower CI.

Premium cigar users (both overall and unflavored, and by extension flavored) were notably more educated than all other examined tobacco product users with nearly 50% completing college or a more advanced degree. By comparison, 10-15% of cigarette smokers, cigarillo users, and non-premium traditional cigar users had similar education levels. Approximately 10% of filtered cigar users completed college or a more advanced degree. These trends were consistent through all six Waves.

Measures of financial status followed a similar pattern of stability through the six Waves of data. More than 60% of premium cigar users (both overall and unflavored, and by extension flavored) were at or above twice the federal poverty level (reported only for Wave 1), and nearly 30-40% reported household income of $100,000 or more across all Waves. In contrast, only one-third or less of all other tobacco user

[21] As in the July 2018 Report and July 2022 Report, youth use of these products could not be investigated further due to the low prevalence (virtually non-existent reporting) of youth usage of premium cigars. In fact, as noted previously, there were zero participant records indicating past 30-day premium cigar use among youth who smoked more than 10 premium cigars in their lifetime reported in Waves 4, 4.5, 5, 5.5, or 6. Further analysis of youth demographic or frequency/intensity data was not statistically possible, and thus such analyses were performed only for adult usage of premium cigars.

groups were at or above twice the federal poverty level, and approximately 90% or more reported household income of $100,000 or less across all waves.

2.4 Frequency and Intensity of Premium Cigar Use, Wave 1 – Wave 6

Trends in frequency and intensity of tobacco use have remained consistent throughout all Waves of PATH data. Adult premium cigar users[22] (both overall and unflavored, and by extension flavored) were generally not everyday users, tended to smoke only 1-2 days per month, and generally smoked only 1-2 premium cigars on those days (Figure 4, Figure 5, and Appendix C, Table C- 4).

Specifically, approximately 95% of premium cigar users do not smoke every day.[23] Indeed, across all PATH Waves (excepting Wave 5.5/PATH-ATS), a range of 93.6% to 96.4% of premium cigar users smoked premium cigars less than daily; with 98.4% of Wave 5.5/PATH-ATS premium cigar users smoking premium cigars less than daily. Everyday use of non-premium traditional cigars and cigarillos was 15-25%, with everyday use of filtered cigars at approximately 40% of users. Everyday use of cigarettes remained by far the highest among the examined products at approximately 75%-80%.

Consistent with the everyday use findings, the median number of smoking days in the past month for premium cigar users (both overall and unflavored, and by extension flavored) varied between 1 and 2 for all Waves except Wave 5.5/PATH-ATS, in which it was 0. In comparison, the estimate for nonpremium cigars ranged from 3-5 smoking days per month for traditional cigar and cigarillo users, approximately 20 smoking days per month for filtered cigar users, and 30 smoking days per month for cigarette smokers.

On those smoking days, premium (both overall and unflavored, and by extension flavored) cigar smokers smoked a median of 1 cigar per day. Non- premium traditional cigar and cigarillo users indicated use of a median of 1-2 cigars smoked per day. The median was greater for filtered cigar users at 4-5 per day on days smoked, and notably increased to 10 per day on days smoked for cigarette smokers.

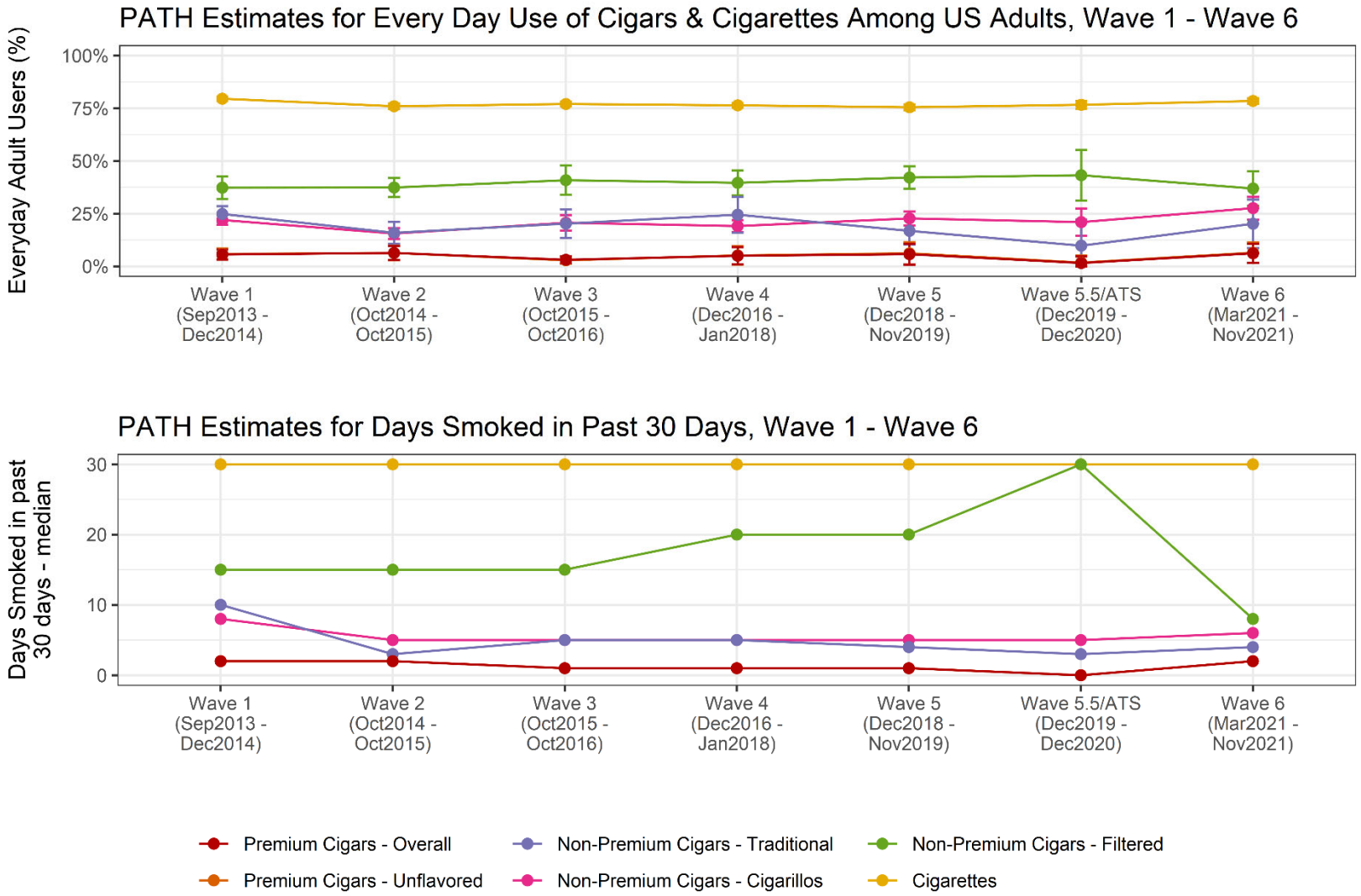
When examining past 30-day use (i.e., across both smoking and non-smoking days), the estimates decreased considerably to near zero for premium cigar users (for both overall and unflavored, and by extension flavored). Additionally, these estimates fall to considerably less than 1 for nonpremium traditional cigar and cigarillo users. Filtered cigar use estimates were also reduced to approximately 3 per day in the past 30 days, and the cigarette estimate was unchanged[24] remaining at 10.0 per day in the past 30 days.

[22] As in the July 2018 Report and July 2022 Report, youth use of these products could not be investigated further due to the low prevalence (virtually non-existent reporting) of youth usage of premium cigars. In fact, as noted previously, there were zero participant records indicating past 30-day premium cigar use among youth who smoked more than 10 premium cigars in their lifetime reported in Waves 4, 4.5, 5, 5.5, or 6. Further analysis of youth demographic or frequency/intensity data was not statistically possible, and thus such analyses were performed only for adult usage of premium cigars.

[23] Note that these estimates are based on relatively few participant records (ranging from 1 to 21 records depending on the Wave).

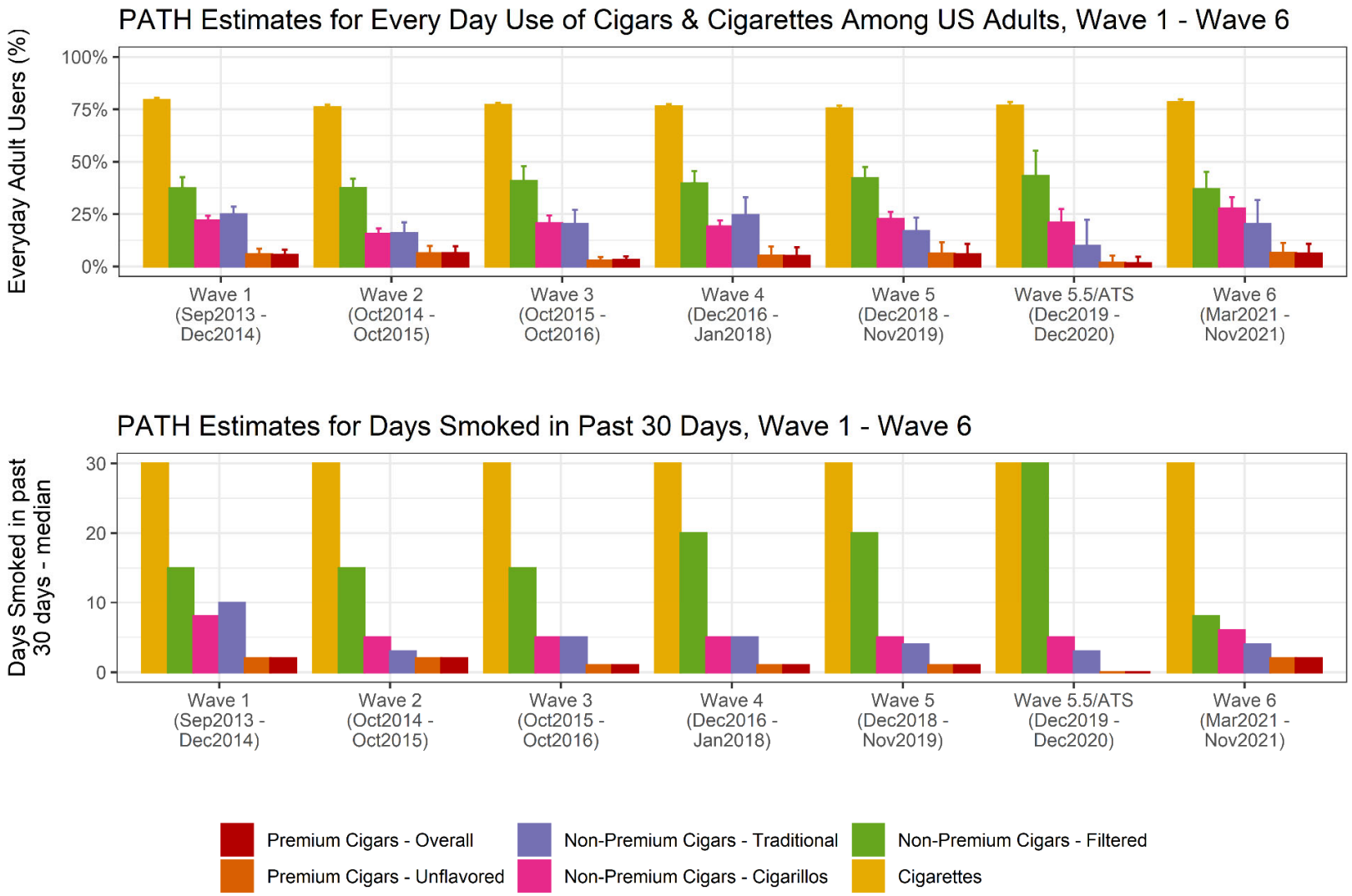
[24] This finding for cigarette smokers is not surprising given that approximately 75%-80% report everyday smoking.

Figure 4. Frequency of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6.



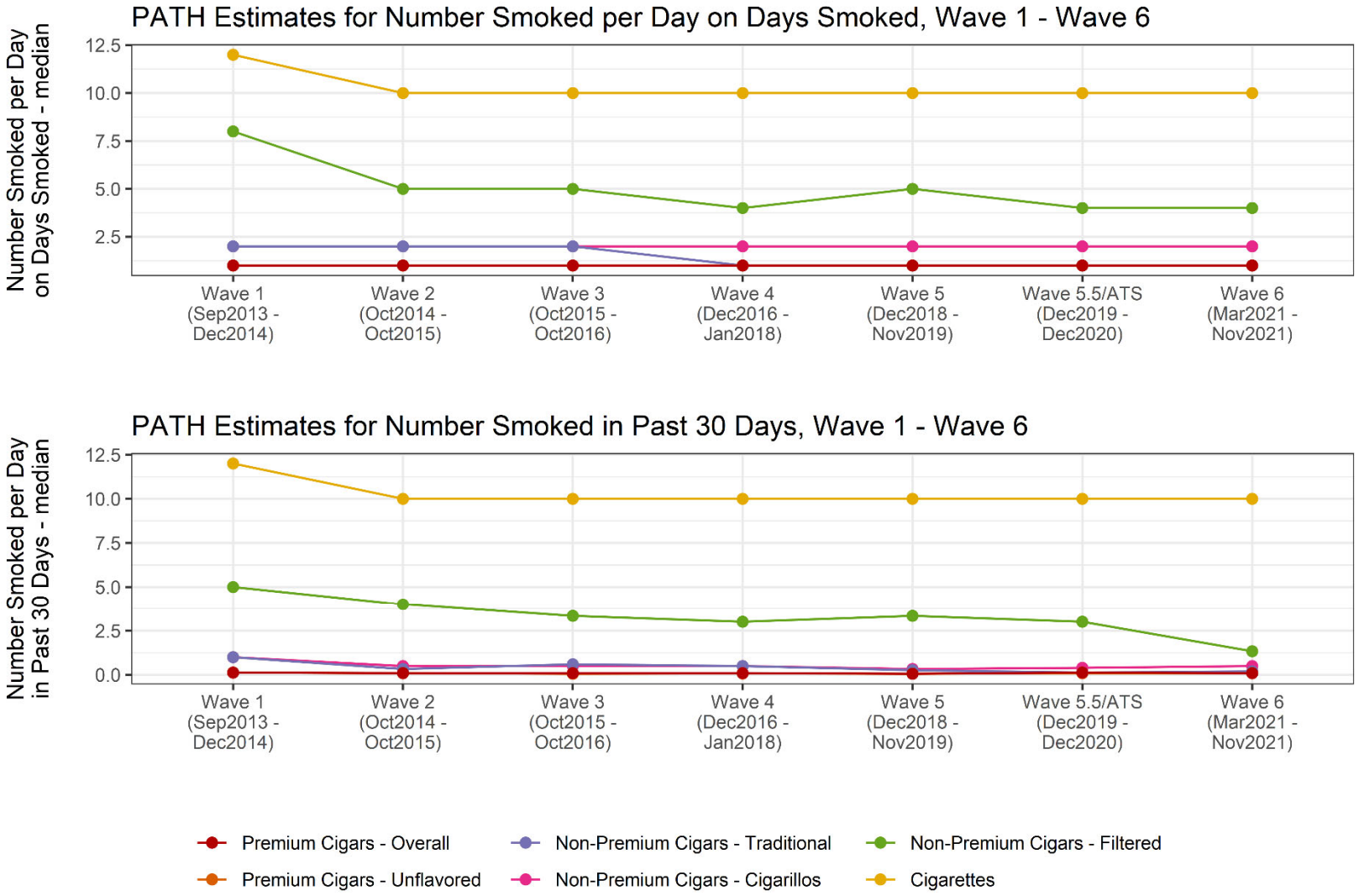
Note: In the bottom subplot, only point estimates for the median are shown as the IQR estimates are wide with considerable overlap across products. The corresponding table (Appendix C, Table C- 4) reports median, IQR, and number of corresponding participant records.

Figure 4 Alternative (bar charts instead of line charts). Frequency of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6.



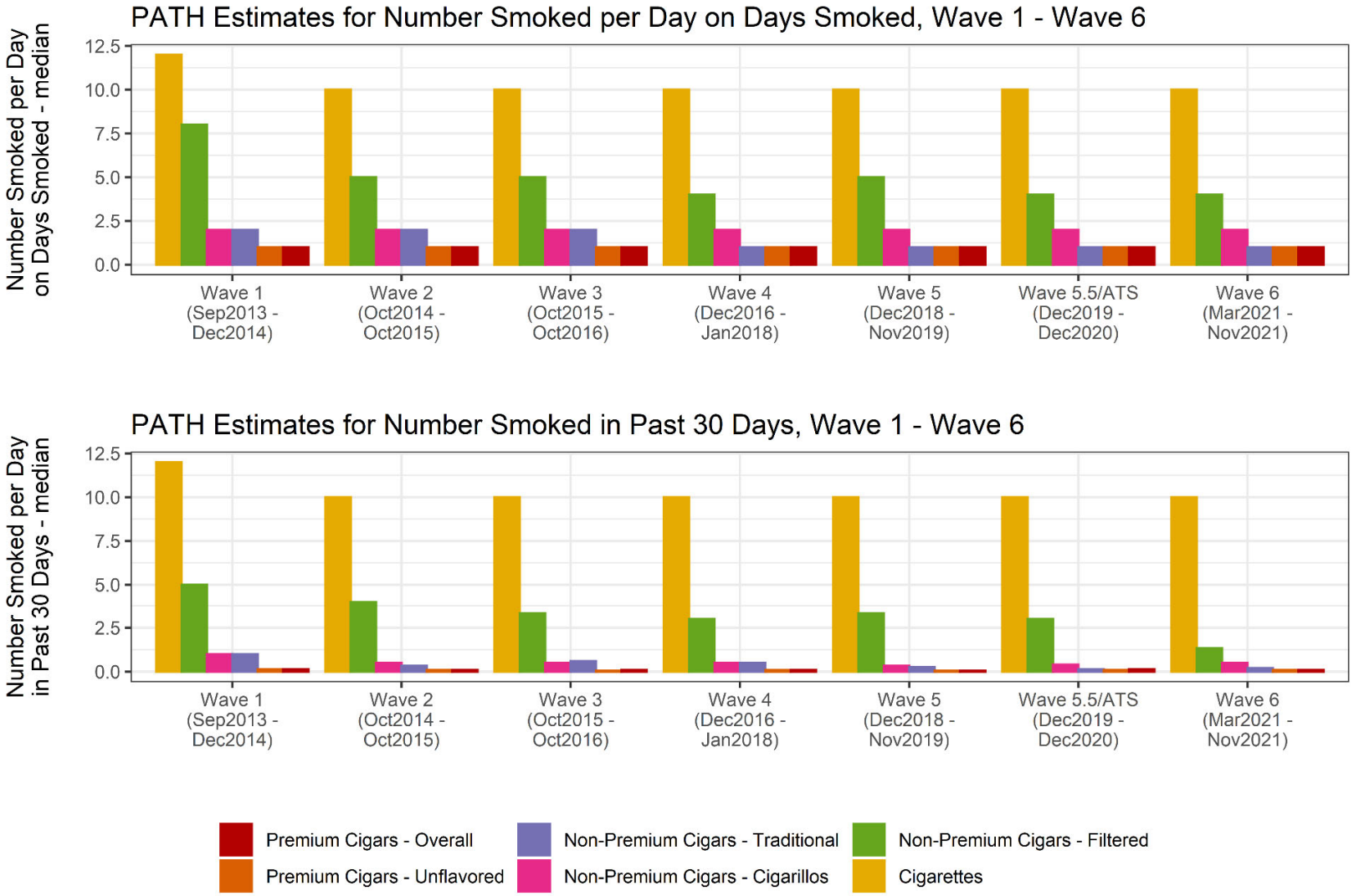
Note: In the bottom subplot, only point estimates for the median are shown as the IQR estimates are wide with considerable overlap across products. The corresponding table (Appendix C, Table C- 4) reports median, IQR, and number of corresponding participant records.

Figure 5. Intensity of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6.



Note: Only point estimates for the median are shown as the IQR estimates are wide with considerable overlap across products. The corresponding table (Appendix C, Table C- 4) reports median, IQR, and number of corresponding participant records for each parameter.

Figure 5 Alternative (bar charts instead of line charts). Intensity of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6.



Note: Only point estimates for the median are shown as the IQR estimates are wide with considerable overlap across products. The corresponding table (Appendix C, Table C- 4) reports median, IQR, and number of corresponding participant records for each parameter.

2.5 Premium Cigars, Tobacco Initiation and Progression of Use of Other Tobacco Products, Wave 1 – Wave 6

As in the July 2018 Report and the July 2022 Report, tobacco use initiation and progression to regular cigarette use was examined using all currently available PATH data through Wave 6. Age at first use, transition from cigar to cigarette smoking, and product first used among dual premium cigar and cigarette smokers are presented separately in the three subsequent subsections.

2.5.1 Age at Initiation

Age at initiation of tobacco product use was examined based on the age of reported first "fairly regular" use of cigarettes or cigars[25]. As noted in section 2.4 and Table 2, the PUFs provide age categories rather than the exact ages that are available in the RUFs that were used in the original July 2018 Report. As such the corresponding output in the July 2022 Report update as well as this January 2024 Report (Figure 6 and Appendix C, Table C- 5) differs in composition from its Table 5 counterpart on pages 31-33 of the original July 2018 Report. Nevertheless, the resulting summaries herein could be viewed as more useful in that they display a more comprehensive perspective of the initiation age distribution.

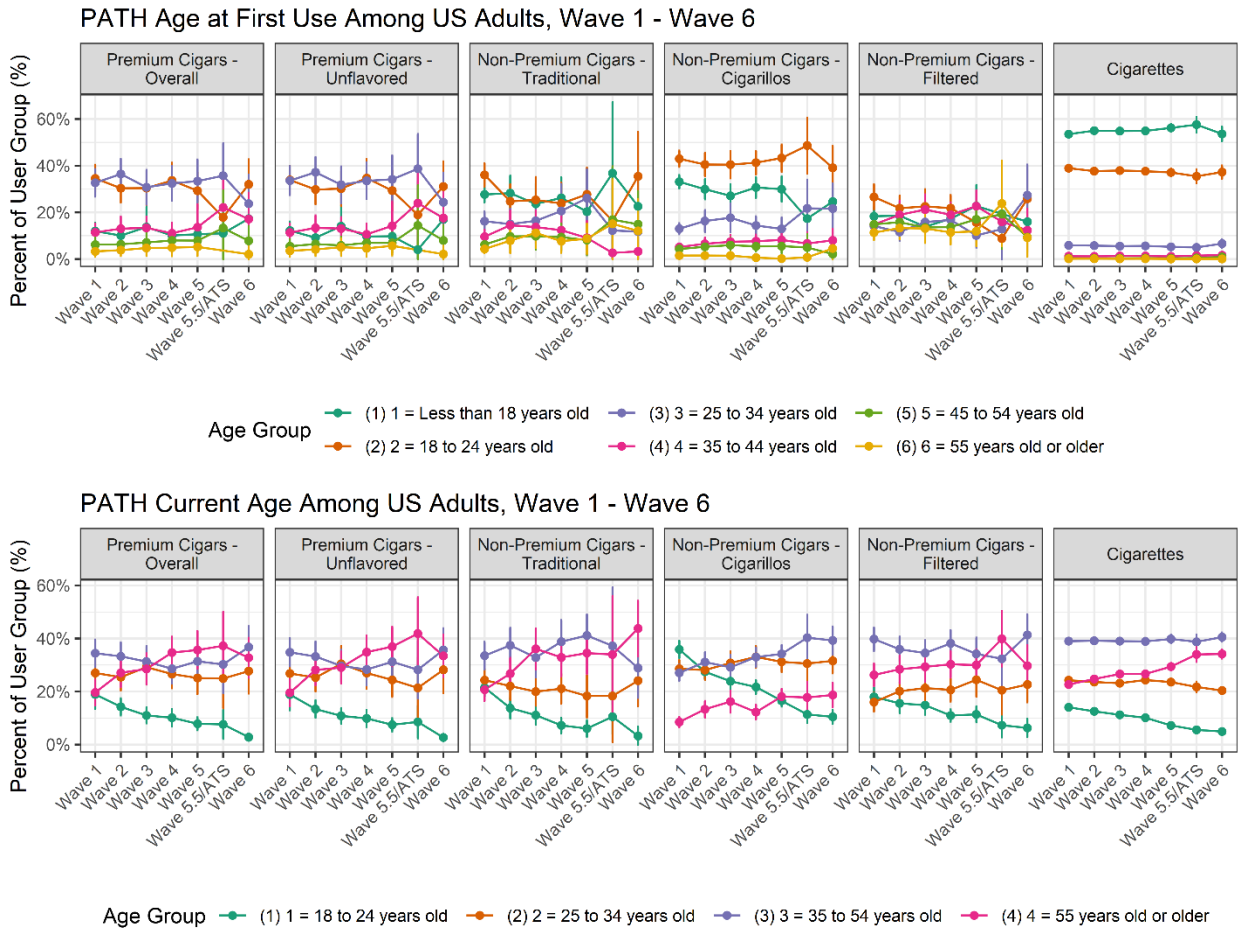
Consistent with the original July 2018 Report and July 2022 Report, initiation of first regular use of premium cigars (both overall and unflavored, and by extension flavored) is skewed older than all other examined product types (Figure 6 and Appendix C, Table C- 5). Approximately 90% of current adult premium cigar users initiated regular use at 18 years or older and more than 50% initiated regular use at 25 years or older based on data through Wave 5.5/PATH-ATS. The Wave 6 estimate for age of premium cigar use initiation at less than 18 years old was higher than all previous Waves at 17.3%. This estimate, however, was based on limited data (n=13 corresponding participant records) and has a wide confidence interval (5.3% 0 29.3%). As such, continued monitoring is required to determine if this increase reflects a novel trend, or numerical instability due to limited available data.

By comparison, across all Waves of PATH data approximately 20-30% of non-premium traditional cigar, cigarillo, and filtered cigar users initiated regular use at less than 18 years old. In contrast to all cigar types, regular cigarette smoking was initiated at less than 18 years old for approximately 55% of cigarette smokers, and 90%-95% at less than 25 years old in aggregate.

[25] The "AC1007" variables were used to assess age when first started cigarette smoking fairly regularly, and the "AG1007" variables were used to assess age when first started using cigars fairly regularly. Summary variables were derived to integrate new baseline participant data with the corresponding responses from previous waves as needed.

Figure 6. Initiation Age at First Regular Use by Cigar Type and Cigarettes, Wave 1 to Wave 6.

Figure 6 Alternative (line charts instead of stacked bar charts). Initiation Age at First Regular Use by Cigar Type and Cigarettes, Wave 1 to Wave 6.



2.5.2 Progression to Everyday Cigarette Smoking

As in the July 2018 Report and the July 2022 Report, the longitudinal nature of PATH was leveraged to investigate cigar users' progression from non-regular to regular cigarette smoking. Following the original paradigm, the number of Wave 1 cigar smokers that did not smoke cigarettes regularly but became regular smokers by Wave 3, Wave 5, and Wave 6 was examined (Section 3.5.2.1). In addition, current dual users of premium cigars and cigarettes were assessed to determine which product was used first (Section 3.5.2.2).

In Wave 4, the Wave 1 Cohort was replenished with a new sample of participants to supplement the Wave 1 sample and account for aging and to replace participants who dropped out of the study.[26] Accordingly, both sets of analyses aimed at examining progression to cigarette smoking were repeated to assess progression to everyday smoking between Wave 4 and Wave 5 as well as Wave 4 and Wave 6.

[26] The *PATH Study Public Use Files User Guide* provides further detail on the rationale and procedures followed for the Wave 4 replenishment sample (see especially Chapter 1.1, Chapter 2.0, and Chapter 2.3).

2.5.2.1 Current Cigar Smokers Transition to Regular Cigarette Smoking

The top section of Table 4 summarizes the extent to which cigar smokers who did not smoke cigarettes every day in Wave 1 progressed to everyday smoking in Wave 3, replicating the analysis that appears in the RUF-based Table 6 of the original July 2018 report. The PUF-based analysis herein similarly found that progression to everyday smoking was rare among premium cigar users (approximately 2% with only 5 such participant records identified). Among nonpremium traditional cigar and cigarillo users such progression was approximately 10% and was approximately 26% among filtered cigar users. Notably, progression to everyday cigarette smoking for premium cigar users was similar to that of Wave 1 results of 1.1% (CI: 0.96-1.31%) for participants that did not report current use of any tobacco product (including ENDS, smokeless, and all other tobacco products also monitored in PATH).

The second section of Table 3 summarizes results from a similar analysis that examines Wave 1 progression to everyday cigarette smoking in Wave 5. Similar findings were obtained to the prior analysis, with premium cigar users who progressed to everyday cigarette smoking at Wave 5 (a lower rate than the 1% of Wave 1). In addition, there were only two such participant records identified, both unflavored premium cigars The remainder of results were likewise consistent with the Wave 1 to Wave 3 analysis. Approximately 10% of Wave 1 nonpremium traditional cigar and cigarillo users with Wave 5 follow-up data progressed to everyday cigarette smoking. In addition, approximately 24% of Wave 1 filtered cigar users progressed to everyday cigarette smoking.

The third section of Table 3 summarizes results from an analysis that examines Wave 1 progression to everyday cigarette smoking in Wave 6. Again, premium cigar users rarely progressed to everyday cigarette smoking (1.98% with only 3 such participant records identified all of which used unflavored premium cigars). The remainder of results were likewise consistent with the Wave 1 to Wave 3 and Wave 1 to Wave 5 analysis. Similar to the other Wave 1 progression analyses, approximately 10% of Wave 1 nonpremium traditional cigar and cigarillo users with Wave 6 follow-up data progressed to everyday cigarette smoking. In addition, approximately 12% of Wave 1 filtered cigar users and 1% of Wave 1 participants who were not current tobacco users progressed to everyday cigarette smoking.

The fourth and fifth sections of Table 3 (appearing on page 35) summarize results from similar analyses of Wave 4 current cigar smokers that did not smoke cigarettes every day and their progression to everyday cigarette smoking in Wave 5 and Wave 6. Similar findings to the Wave 1 progression analyses were observed with premium cigar users rarely progressing to everyday smoking. Approximately 1.5% of this Wave 4 subgroup (n=5 participant records) progressed to everyday smoking in Wave 5 and zero relevant participant records were identified in Wave 6. Approximately 5%-10% of nonpremium traditional cigar and cigarillo users progressed to everyday smoking in Wave 5 or Wave 6, whereas filtered cigar users did so more frequently at approximately 20% in Wave 5 and nearly 14% in Wave 6. In addition, Wave 4 not current tobacco users progressed to everyday cigarette smoking with comparable[27] rarity relative to premium cigar users at approximately 0.8% in both Wave 5 and Wave 6.

[27] "Comparable" in this case indicates that the 95% confidence intervals overlap. It is not meant to suggest that the point estimates are exactly equal or only minimally different.

Table 4 summarizes results from a similar set of analyses examining progression to some day or everyday smoking among cigarette non-smokers in a previous wave. Such progression was relatively rare among premium cigar smokers whether comparing Wave 1 to Wave 3 (6.01%, CI: 2.00-10.0%), Wave 1 to Wave 5 (6.22%, CI: 1.71-10.73%), or Wave 1 to Wave 6 (5.87%, CI: 1.09-10.66%). Analyses of Wave 4 to Wave 5 (4.01%, CI: 1.24-6.77%) and Wave 4 to Wave 6 (0.60%, CI: 0-1.47%) yielded similar findings. Again, progression to at least some day smoking from cigarette non-smoking was somewhat more common among nonpremium traditional cigar (approximately 12-13% for Wave 1 to Wave 3 or Wave 5 and Wave 4 to Wave 5; nearly 8% for Wave 1 to Wave 6 and approximately 17% for Wave 4 to Wave 6, although both of these latter estimates were based on only 10 or fewer records). Likewise, cigarillo user progression to everyday cigarette smoking was more common (approximately 13-18% for Wave 1 to Wave 3, Wave 5, or Wave 6, and approximately 13%-15% for Wave 4 to Wave 5 or Wave 6). Filtered cigar users again progressed more frequently at approximately 30% in the Wave 1 to Wave 3 or Wave 5 analysis and approximately 35% in the Wave 4 to Wave 5 analysis. Wave 1 to Wave 6 and Wave 4 to Wave 6 estimates for progression to everyday cigarette smoking among filtered cigar users was lower (approximately 10% and 15%, respectively) although both were based on approximately 10 participant records. Finally, progression to at least some day cigarette smoking among previous wave not current tobacco users was again comparable[27] to that of premium cigar users (approximately 2% for all Wave 1 and Wave 4 progression analyses).

Table 3. Progression among Current Cigar Smoker and Non-current Tobacco User from Not Everyday Cigarette Smoker to Everyday Cigarette Smoker, Wave 1 to Wave 3, Wave 5, and Wave 6, as well as Wave 4 to Wave 5 and Wave 6.

Parameter	Premium Cigars		Non-Premium Cigars			Not Current Tobacco Users
	Overall	Unflavored	Traditional	Cigarillos	Filtered	
Progression from Not Everyday Smoker in Wave 1 to Everyday Cigarette Smoker in Wave 3						
Not everyday cigarette smoker in Wave 1 (%)	100% 180 records	100% 168 records	100% 168 records	100% 469 records	100% 148 records	100% 12,585 records
Progression to everyday cigarette smoker in Wave 3 (%)	2.09% (0.07, 4.12%) 5 records	2.26% (0.07, 4.44%) 5 records	10.97% (6.77, 15.17%) 22 records	11.60% (8.35, 14.84%) 56 records	26.18% (18.79, 33.57%) 38 records	1.13% (0.96, 1.31%) 302 records
Remain not everyday smoker in Wave 3 (%)	97.91% (95.88, 99.93%) 175 records	97.74% (95.56, 99.93%) 163 records	89.03% (84.83, 93.23%) 146 records	88.40% (85.16, 91.65%) 413 records	73.82% (66.43, 81.21%) 110 records	98.87% (98.69, 99.04%) 12,281 records
Progression from Not Everyday Smoker in Wave 1 to Everyday Cigarette Smoker in Wave 5						
Not everyday cigarette smoker in Wave 1 (%)	100% 152 records	100% 141 records	100% 142 records	100% 410 records	100% 116 records	100% 10,893 records
Progression to everyday cigarette smoker in Wave 5 (%)	0.95% (0.00, 2.30%) 2 records	1.03% (0.00, 2.50%) 2 records	10.17% (5.07, 15.27%) 21 records	8.19% (5.70, 10.67%) 39 records	24.05% (14.58, 33.52%) 29 records	1.19% (0.99, 1.39%) 277 records
Remain not everyday smoker in Wave 5 (%)	99.05% (97.70, 100%) 150 records	98.97% (97.50, 100%) 139 records	89.83% (84.73, 94.93%) 121 records	91.81% (89.33, 94.30%) 370 records	75.95% (66.48, 85.42%) 87 records	98.81% (98.61, 99.01%) 10,614 records
Progression from Not Everyday Smoker in Wave 1 to Everyday Cigarette Smoker in Wave 6						
Not everyday cigarette smoker in Wave 1 (%)	100% 120 records	100% 112 records	100% 112 records	100% 310 records	100% 94 records	100% 9,015 records
Progression to everyday cigarette smoker in Wave 6 (%)	1.98% (0.00, 4.30%) 3 records	2.15% (0.00, 4.67%) 3 records	8.94% (3.48, 14.40%) 11 records	11.32% (7.61, 15.04%) 36 records	12.36% (5.10, 19.63%) 16 records	1.27% (1.01, 1.54%) 209 records
Remain not everyday smoker in Wave 6 (%)	98.02% (95.70, 100.00%) 117 records	97.85% (95.33, 100.00%) 109 records	91.06% (85.60, 96.52%) 101 records	88.68% (84.96, 92.39%) 274 records	87.64% (80.37, 94.90%) 78 records	98.73% (98.46, 98.99%) 8,805 records

Table 3 *continued*. Progression among Current Cigar Smoker and Non-current Tobacco User from Not Everyday Cigarette Smoker to Everyday Cigarette Smoker, Wave 4 to Wave 5 and Wave 6.

Parameter	Premium Cigars		Non-Premium Cigars			Not Current Tobacco Users
Progression from Not Everyday Smoker in Wave 4 to Everyday Cigarette Smoker in Wave 5						
Not everyday cigarette smoker in Wave 4 (%)	100% 245 records	100% 231 records	100% 103 records	100% 471 records	100% 178 records	100% 17,869 records
Progression to everyday cigarette smoker in Wave 5 (%)	1.47% (0.00, 3.10%) 5 records	1.17% (0.00, 2.71%) 4 records	4.52% (0.50, 8.53%) 6 records	8.57% (4.82, 12.31%) 42 records	20.57% (14.42, 26.71%) 37 records	0.81% (0.66, 0.95%) 310 records
Remain not everyday smoker in Wave 5 (%)	98.53% (96.90, 100%) 240 records	98.83% (97.29, 100%) 227 records	95.48% (91.47, 99.50%) 97 records	91.43% (87.69, 95.18%) 429 records	79.43% (73.29, 85.58%) 140 records	99.19% (99.05, 99.34%) 17,556 records
Progression from Not Everyday Smoker in Wave 4 to Everyday Cigarette Smoker in Wave 6						
Not everyday cigarette smoker in Wave 4 (%)	100% 202 records	100% 192 records	100% 84 records	100% 366 records	100% 132 records	100% 14,626 records
Progression to everyday cigarette smoker in Wave 6 (%)	*Zero records available*	*Zero records available*	6.43% (0.89, 11.97%) 6 records	11.50% (7.17, 15.82%) 40 records	13.98% (7.67, 20.30%) 22 records	0.85% (0.69, 1.01%) 238 records
Remain not everyday smoker in Wave 6 (%)	100% 202 records	100% 192 records	93.57% (88.03, 99.11%) 78 records	88.50% (84.18, 92.83%) 326 records	86.02% (79.70, 92.33%) 110 records	99.15% (98.99, 99.31%) 14,386 records

Table 4. Progression among Current Cigar Smoker and Non-current Tobacco User from Not Some Day Cigarette Smoker to Some Day Cigarette Smoker, Wave 1 to Wave 3, Wave 5, and Wave 6, as well as Wave 4 to Wave 5 and Wave 6.

Parameter	Premium Cigars		Non-Premium Cigars			Not Current Tobacco Users
	Overall	Unflavored	Traditional	Cigarillos	Filtered	
Progression from Not Some Day Smoker in Wave 1 to Some Day Cigarette Smoker in Wave 3						
Not some day cigarette smoker in Wave 1 (%)	100% 149 records	100% 138 records	100% 98 records	100% 252 records	100% 77 records	100% 11,992 records
Progression to some day cigarette smoker in Wave 3 (%)	6.01% (2.00, 10.01%) 10 records	6.52% (2.15, 10.89%) 10 records	12.58% (5.66, 19.51%) 15 records	16.66% (12.64, 20.68%) 48 records	29.10% (19.00, 39.20%) 20 records	2.55% (2.26, 2.84%) 596 records
Remain not some day smoker in Wave 3 (%)	93.99% (89.99, 98.00%) 139 records	93.48% (89.11, 97.85%) 128 records	87.42% (80.49, 94.34%) 83 records	83.34% (79.32, 87.36%) 204 records	70.90% (60.80, 81.00%) 57 records	97.45% (97.16, 97.74%) 11,395 records
Progression from Not Some Day Smoker in Wave 1 to Some Day Cigarette Smoker in Wave 5						
Not some day cigarette smoker in Wave 1 (%)	100% 127 records	100% 117 records	100% 81 records	100% 221 records	100% 64 records	100% 10,377 records
Progression to some day cigarette smoker in Wave 5 (%)	6.22% (1.71, 10.73%) 8 records	6.80% (1.74, 11.85%) 8 records	12.35% (5.17, 19.52%) 15 records	18.34% (13.31, 23.38%) 45 records	29.43% (17.03, 41.82%) 17 records	2.66% (2.34, 2.97%) 528 records
Remain not some day smoker in Wave 5 (%)	93.78% (89.27, 98.29%) 119 records	93.20% (88.15, 98.26%) 109 records	87.65% (80.48, 94.83%) 66 records	81.66% (76.62, 86.69%) 175 records	70.57% (58.18, 82.97%) 47 records	97.34% (97.03, 97.66%) 9,848 records
Progression from Not Some Day Smoker in Wave 1 to Some Day Cigarette Smoker in Wave 6						
Not some day cigarette smoker in Wave 1 (%)	100% 100 records	100% 93 records	100% 68 records	100% 161 records	100% 52 records	100% 8,622 records
Progression to some day cigarette smoker in Wave 6 (%)	5.87% (1.09, 10.66%) 6 records	6.42% (1.09, 11.74%) 6 records	7.55% (1.52, 13.58%) 7 records	13.31% (7.49, 19.14%) 21 records	10.39% (2.46, 18.32%) 8 records	2.02% (1.68, 2.37%) 324 records
Remain not some day smoker in Wave 6 (%)	94.13% (89.34, 98.91%) 94 records	93.58% (88.26, 98.91%) 87 records	92.45% (86.42, 98.48%) 61 records	86.69% (80.86, 92.51%) 140 records	89.61% (81.68, 97.54%) 44 records	97.98% (97.63, 98.32%) 8,297 records

Table 4 *continued*. Progression among Current Cigar Smoker and Non-current Tobacco User from Not Some Day Cigarette Smoker to Some Day Cigarette Smoker, Wave 4 to Wave 5 and Wave 6.

Parameter	Premium Cigars		Non-Premium Cigars			Not Current Tobacco Users
Progression from Not Some Day Smoker in Wave 4 to Some Day Cigarette Smoker in Wave 5						
Not some day cigarette smoker in Wave 4 (%)	100% 218 records	100% 207 records	100% 75 records	100% 279 records	100% 84 records	100% 17,448 records
Progression to some day cigarette smoker in Wave 5 (%)	4.01% (1.24, 6.77%) 11 records	4.31% (1.34, 7.28%) 11 records	12.78% (4.22, 21.34%) 11 records	12.98% (8.26, 17.71%) 45 records	34.64% (21.88, 47.40%) 28 records	2.16% (1.92, 2.40%) 788 records
Remain not some day smoker in Wave 5 (%)	95.99% (93.23, 98.76%) 207 records	95.69% (92.72, 98.66%) 196 records	87.22% (78.66, 95.78%) 64 records	87.02% (82.29, 91.74%) 234 records	65.36% (52.60, 78.12%) 56 records	97.84% (97.60, 98.08%) 16,657 records
Progression from Not Some Day Smoker in Wave 4 to Some Day Cigarette Smoker in Wave 6						
Not some day cigarette smoker in Wave 4 (%)	100% 182 records	100% 175 records	100% 64 records	100% 219 records	100% 63 records	100% 14,310 records
Progression to some day cigarette smoker in Wave 6 (%)	0.60% (0.00, 1.47%) 2 records	0.63% (0.00, 1.55%) 2 records	17.08% (6.39, 27.77%) 10 records	15.29% (9.31, 21.26%) 33 records	14.94% (5.64, 24.25%) 12 records	1.77% (1.54, 1.99%) 521 records
Remain not some day smoker in Wave 6 (%)	99.40% (98.53, 100.00%) 180 records	99.37% (98.45, 100.00%) 173 records	82.92% (72.23, 93.61%) 54 records	84.71% (78.74, 90.69%) 186 records	85.06% (75.75, 94.36%) 51 records	98.23% (98.01, 98.46%) 13,787 records

2.5.2.2 Which Tobacco Product Was Used First: Premium Cigars or Cigarettes?

As conducted for the original July 2018 Report and the July 2022 Report, progression from cigar use to cigarette smoking was further investigated by assessing which product was used first among dual users of both premium cigars and cigarettes. This comparison was made based on the reported age of first cigarette (all or part of a cigarette) or cigar (even one or two puffs) use.[28] As noted in Section 3.5.1 and discussed in detail in section 2.4 and Table 2, the PUFs provide age categories rather than the exact ages available in the RUFs that were used in the July 2018 Report. As such, the corresponding output in this report (Table 5) differs from its Table 8 counterpart on page 36 of the original July 2018 Report. The resulting summary is therefore less precise (because age ranges[29] are compared rather than exact ages). Nevertheless, the key findings and interpretation remain consistent between the original and the updated analyses described in this report.

As shown in Table 5, traditional cigars[30] were rarely used first (only two such participant records identified with an estimated prevalence of less than 1.5% in Wave 1; no such records were identified in Wave 4). First use of cigarettes was far more common, at approximately 45% based on Wave 1 data on dual users. Initiating use of both products at a similar age was nearly 55% based on Wave 1 data on dual users. This analysis was repeated on the Wave 4 replenishment sample, and findings were generally consistent. Very few relevant records were identified (10 total current premium cigar and cigarette dual users), however, and the specific estimates should not be considered as robust. Analysis of Wave 6 data was similarly not possible as zero dual premium cigar and cigarette user records were identified with complete data for the age of first use variables.

[28] The "AC1006" variables were used to assess age when first started cigarette smoking (all or part of a cigarette), and the "AG1006" variables were used to assess age when first started using cigars (even one or two puffs).
[29] Age range categories for the "AC1006" and "AG1006" PUF variables are as follows: "Less than 18 years old", "18 to 24 years old", "25 to 34 years old", "35 to 44 years old", "45 to 54 years old", "55 years old or older".
[30] The PATH survey question regarding first use does not specify whether the traditional cigar was premium or not and no brand or product information was collected as follow-up. Therefore, the first used traditional cigar cannot be designated further as premium or non-premium.

Table 5. First Product Initiated Among Current Dual Users of Premium Cigars and Cigarettes, Wave 1, Wave 4, and Wave 6

Value	Survey Wave	First Product Initiated Smoking
(1) Cigarette first	Wave 1	45.03% (35.44, 54.61%) 51 records
	Wave 4	33.76% (0.45, 67.07%) 4 records
	Wave 6	*No available records*
(2) Traditional Cigars first[31]	Wave 1	1.36% (0.00, 3.32%) 2 records
	Wave 4	*None reported*[32]
	Wave 6	*No available records*

2.5.3 Dual Use of Premium Cigars and Other Tobacco Products, Wave 1 – Wave 6

As in the July 2018 Report and July 2022 Report, dual use of cigars and cigarettes was examined by assessing cigarette smoking behaviors among cigar smokers, and cigar smoking behavior among dual users of premium cigar and cigarette smokers relative to users of premium cigars only. As shown in Figure 7 (with plotted values presented in Appendix C, Table C- 6), most current premium cigar users did not also currently smoke cigarettes and cigarette smoking frequency and intensity was generally low among this user group.

Current cigarette smoking was approximately 50-60% for nonpremium traditional cigar and cigarillo users, approximately 60-70% for filtered cigar users; compared to less than 25% of premium cigar users based on Wave 4 through Wave 6 data. Among dual users, less than half of premium cigar dual users smoked cigarettes every day, whereas approximately 60% or more of nonpremium cigar users smoked cigarettes every day. In addition, days of cigarette smoking in the past month and number of cigarettes smoked per day on days smoked or more generally in the past 30 days was least among premium cigar dual users.

[31] The PATH survey question regarding first use does not specify whether the traditional cigar was premium or not and no brand or product information was collected as follow-up. Therefore, the first used traditional cigar cannot be designated further as premium or non-premium.

[32] Wave 4 has limited data that is relevant to the first product used question, but there are a few records in which age at first use is available for both traditional cigars and cigarettes which is why the data is listed as "none reported." Wave 6 asks the same questions, but there are zero premium cigar using participants with data entered for age at first use for both traditional cigars and cigarettes which is the reason for the data listing to be "no available records."

Figure 7. Dual Use of Cigars and Cigarettes, Wave 1 to Wave 6.

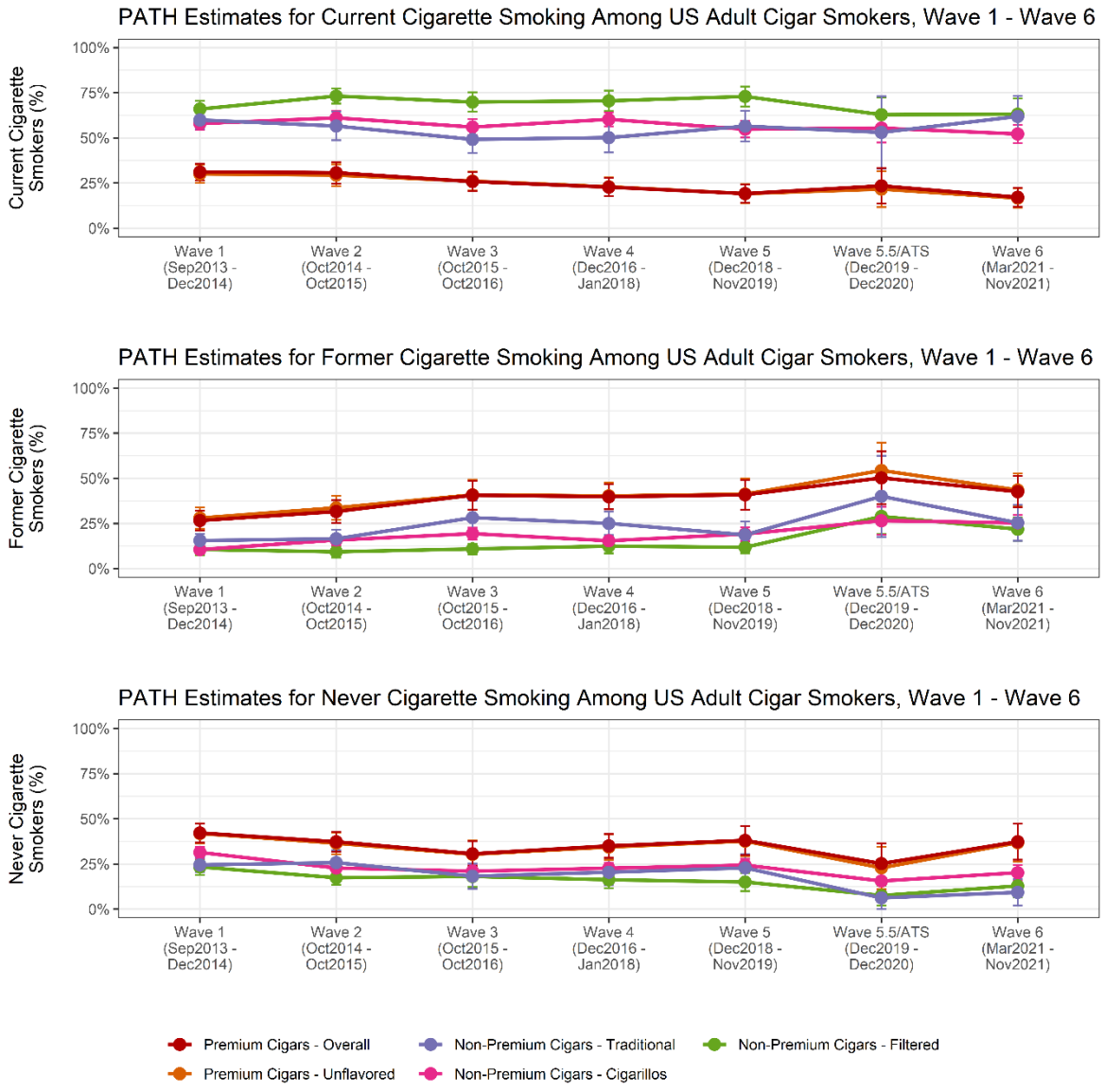
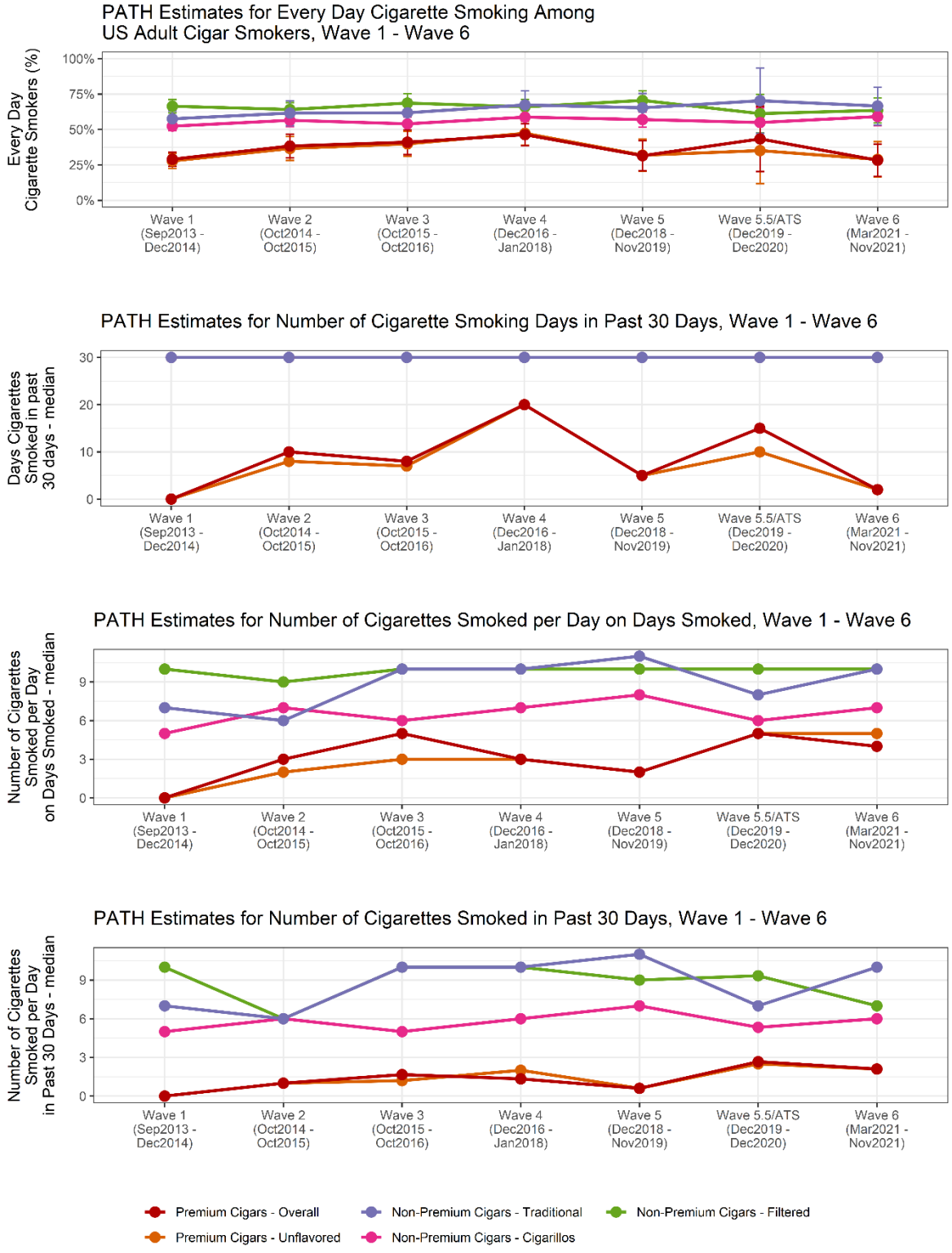


Figure 7 ***continued. Frequency and intensity of cigarette smoking among cigar users.***



Note: In the bottom three subplots, only point estimates for the median are shown for clarity as the IQR estimates are wide with considerable overlap across products. The corresponding table (Appendix C, Table C- 6) reports median, IQR, and number of corresponding participant records for each parameter.

Figure 7 Alternative (bar charts instead of line charts). Dual Use of Cigars and Cigarettes, Wave 1 to Wave 6.

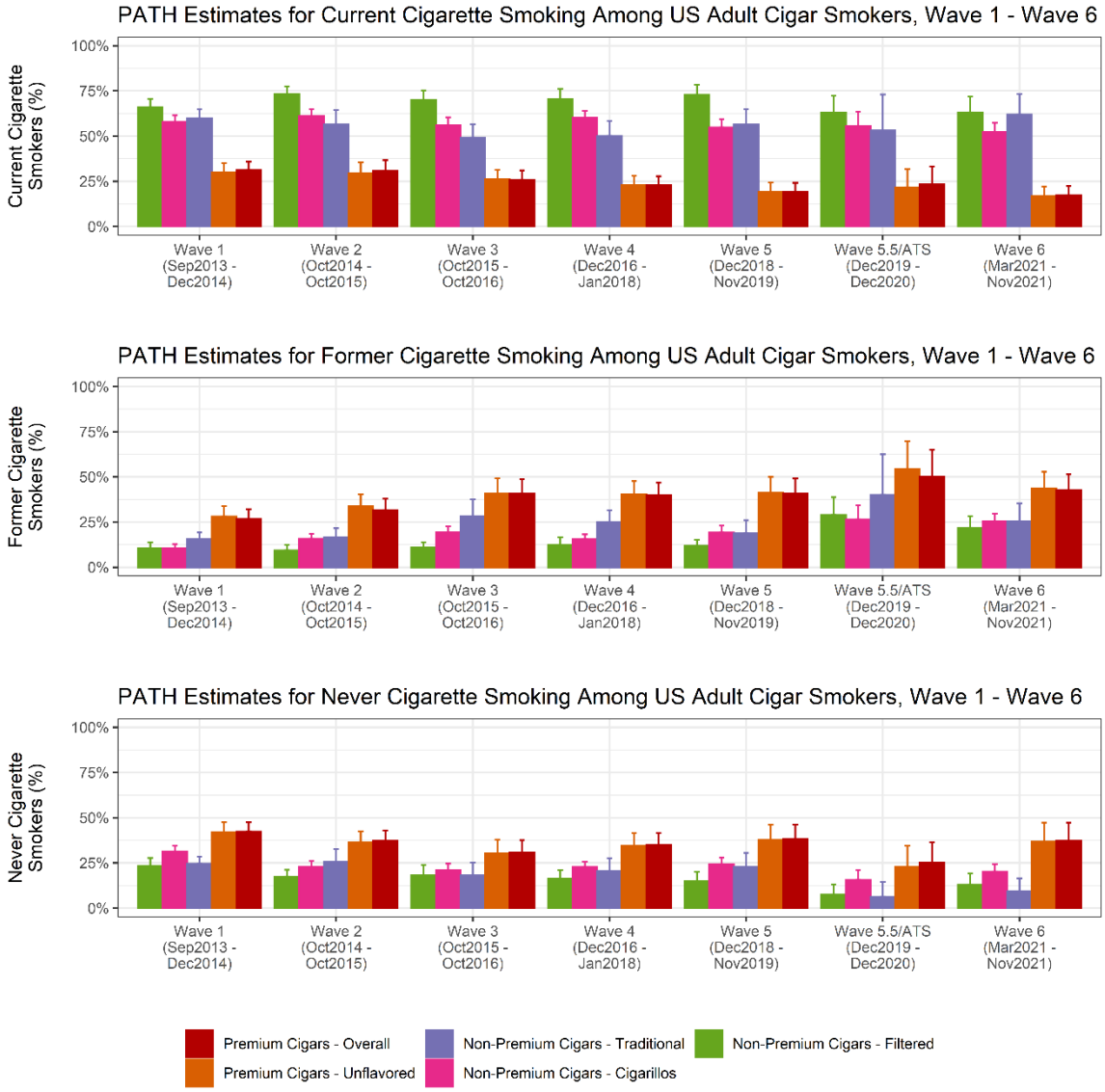
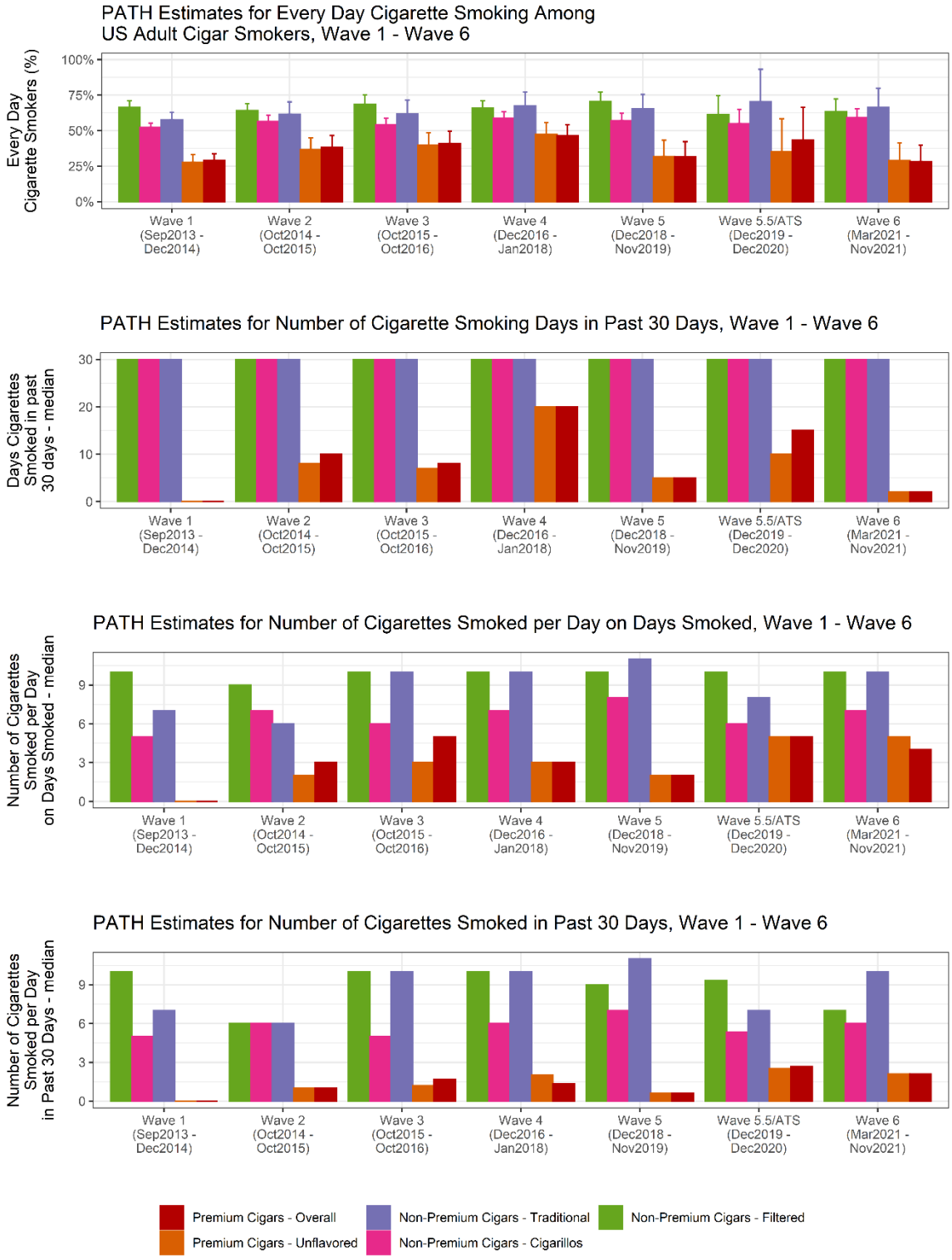


Figure 7 Alternative *continued*. Dual Use of Cigars and Cigarettes, Wave 1 to Wave 6.



Note: In the bottom three subplots, only point estimates for the median are shown for clarity as the IQR estimates are wide with considerable overlap across products. The corresponding table (Appendix C, Table C- 6) reports median, IQR, and number of corresponding participant records for each parameter.

When looking at cigar smoking behavior among premium cigar dual users, and as noted in the July 2018 Report and July 2022 Report, current premium cigar dual users did not smoke more premium cigars than those who smoked only premium cigars. As shown in Table 6. Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 to Wave 6, the prevalence of everyday cigar smoking was similarly low (less than 10%) when comparing premium cigar users who also smoked cigarettes to those who did not. Similarly, estimated median smoking days per month and median number of cigars smoked per day (when calculated per smoking day or over the course of the past month) were similarly low. The estimated median for number of days on which premium cigars were smoked varied between one or two across all Waves, regardless of whether users also currently smoked cigarettes. Similarly, the estimated median number of premium cigars smoked per day on days smoked was one across all waves, and considerably less than that if calculated on a per month basis. Analysis of users of only unflavored premium cigars yielded essentially identical results (Appendix D, Table D- 1).

Table 6. Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 to Wave 6.

Parameter	Survey Wave	Premium Cigar & Current Cigarette Smoker	Premium Cigar Smoker Only
Now smoke premium cigars every day (%)	Wave 1	5.08 (0.77, 9.38) 6 records	5.87 (2.80, 8.94) 15 records
	Wave 2	4.97 (0.67, 9.27) 6 records	6.98 (2.88, 11.08) 15 records
	Wave 3	4.34 (0.23, 8.45) 6 records	2.71 (0.95, 4.48) 9 records
	Wave 4	2.31 (0.00, 5.54) 2 records	5.83 (0.65, 11.00) 12 records
	Wave 5	2.83 (0.00, 7.03) 3 records	6.46 (0.37, 12.55) 14 records
	Wave 5.5/ATS	*Zero available data records*	2.06 (0.00, 6.12) 1 record
	Wave 6	6.70 (0.00, 17.22) 4 records	6.09 (1.07, 11.11) 10 records
Number of premium cigar smoking days in past 30 days – median (IQR)	Wave 1	2.00 (0.00, 5.00) 117 records	2.00 (1.00, 5.00) 223 records
	Wave 2	1.00 (0.00, 3.00) 102 records	2.00 (0.00, 5.00) 220 records
	Wave 3	1.00 (0.00, 3.00) 107 records	2.00 (0.00, 4.00) 248 records
	Wave 4	0.00 (0.00, 2.00) 93 records	1.00 (0.00, 5.00) 264 records
	Wave 5	1.00 (0.00, 3.00) 90 records	1.00 (0.00, 4.00) 273 records
	Wave 5.5/ATS	0.00 (0.00, 2.00) 22 records	1.00 (0.00, 4.00) 62 records
	Wave 6	1.00 (0.00, 5.00) 55 records	2.00 (1.00, 5.00) 230 records

Table 6 *continued*. Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 to Wave 6.

Parameter	Survey Wave	Premium Cigar & Current Cigarette Smoker	Premium Cigar Smoker Only
Number of premium cigars per day on days smoked – median (IQR)	Wave 1	1.00 (1.00, 2.00) 68 records	1.00 (1.00, 1.00) 152 records
	Wave 2	1.00 (1.00, 1.00) 57 records	1.00 (1.00, 1.00) 141 records
	Wave 3	1.00 (1.00, 1.00) 43 records	1.00 (1.00, 1.00) 153 records
	Wave 4	1.00 (0.50, 1.00) 43 records	1.00 (1.00, 1.00) 181 records
	Wave 5	1.00 (0.50, 1.00) 54 records	1.00 (0.50, 1.00) 185 records
	Wave 5.5/ATS	1.00 (1.00, 1.00) 11 records	1.00 (1.00, 1.00) 37 records
	Wave 6	1.00 (0.50, 1.00) 36 records	1.00 (1.00, 1.00) 175 records
Number of premium cigars per day in past 30 days – median (IQR)	Wave 1	0.17 (0.07, 0.33) 68 records	0.13 (0.07, 0.33) 152 records
	Wave 2	0.07 (0.03, 0.27) 57 records	0.10 (0.07, 0.33) 141 records
	Wave 3	0.07 (0.03, 0.13) 43 records	0.10 (0.07, 0.30) 153 records
	Wave 4	0.07 (0.02, 0.27) 43 records	0.10 (0.03, 0.33) 181 records
	Wave 5	0.07 (0.03, 0.13) 54 records	0.07 (0.03, 0.20) 185 records
	Wave 5.5/ATS	0.07 (0.07, 0.13) 11 records	0.13 (0.03, 0.33) 36 records
	Wave 6	0.07 (0.03, 0.50) 36 records	0.10 (0.03, 0.27) 175 records

3 CONCLUSIONS

The January 2024 Report is consistent with the July 2018 Report and July 2022 Report

- Youth Usage: Youth usage of premium cigars is lower than any other tobacco product. *Only 0.09%, 0.05%, and 0.02% of youth reported use of premium cigars in Waves 1, 2 and 3 respectively, and in fact not a single youth participant reported smoking premium cigars in Waves 4, 4.5, 5, 5.5, or 6.*
    - No youth participants reported smoking flavored premium cigars in any Wave of the PATH Study.
- Adult Prevalence: Premium cigar usage among adults remained below 1% through all Waves of the PATH Study for overall premium cigar use, unflavored premium cigar use, and by extension flavored premium cigar use.
- Demographics: Demographics of adult premium cigar smokers were unchanged through all Waves of the PATH Study; namely that this population is comprised typically of white males, mostly 35 years or older, who are well educated, and have higher socio-economic status.
    - There are no statistically significant demographic differences between the adult users of all premium cigars and unflavored premium cigars, and by extension flavored premium cigars.
    - The demographic data for all Waves only applies to adults as there was either too few or no reported youth usage of premium cigars to prepare the same analysis.
- Frequency and Intensity:
    - Across all Waves of the PATH Study approximately 95% of adult premium cigar users smoke occasionally (less than every day).
    - Across all Waves of the PATH Study the median number of adult premium cigars smoked per month was 1.0-2.0 premium cigars.
    - Both of these findings apply for overall premium cigars and unflavored premium cigars, and by extension flavored premium cigars.
- Initiation and Progression to Other Tobacco Products:
    - There is no statistically significant difference regarding age of initiation across all Waves of the PATH Study for overall premium cigars, unflavored premium cigars, and by extension flavored premium cigars.
        -
    - There is no statistically significant difference regarding progression to use of other tobacco products across all Waves of the PATH Study for overall premium cigars, unflavored premium cigars, and by extension flavored premium cigars.
        - Progression to everyday smoking among premium cigar users who did not previously smoke cigarettes daily is less than 2% of users.
        - In all Waves of the PATH Study, except for one reported record those premium cigar smokers that progressed to smoking cigarettes, smoked only unflavored premium cigars.

- Most current premium cigar users did not also currently smoke cigarettes, and cigarette smoking frequency and intensity was low among this user group (less than five cigarette smoking days per month, and less than five cigarettes smoked on those days).
- Current premium cigar dual users did not smoke more premium cigars than those who were not dual users and did not smoke premium cigars with more frequency or intensity than those who were not dual users.

In sum, the findings based on the more recent Wave 5.5/PATH-ATS and Wave 6 data on premium cigar use in the U.S. simply extend the findings identified in the July 2018 Report based on Wave 1 through Wave 3 data and the July 2022 Report that also incorporated Wave 4, Wave 4.5, and Wave 5 data. Taken together, the findings presented in this report are all consistent with those presented in the July 2018 Report and the July 2022 Report, namely: (i) that youth use of premium cigars is extremely rare and is undetected in the most recent PATH data collections , flavored or unflavored; (ii) adult prevalence is below one percent whether one looks at premium cigars overall, unflavored premium cigars, or by extension flavored premium cigars; and (iii) the demographics of adult premium cigar smokers remained consistent through all Waves of PATH data and for overall premium cigars, unflavored premium cigars, and by extension flavored premium cigars. Trends were consistent across the first three waves (2013/14 through 2015/16) and that consistency has continued or even improved (e.g., undetected youth use in most recent waves) for the premium cigar product class from Wave 4 through Wave 6 (2017/18 through 2021).

Appendix A. Table/Figure Mapping to July 2018 Report.

Table A- 1. Mapping of tables between original July 2018 report on PATH Waves 1-3 and the current updated report on PATH Waves 1-6

Original July 2018 Report Table (page number)	Corresponding Table/Figure in this Report
Table 1. Prevalence of Cigar Usage Among Youth Aged 12-17, Wave 1 to Wave 3 (p19)	Figure 2 and Appendix C Table C- 1
Table 2. Prevalence of Cigar Usage among Adults, Aged 18 Years and Older, Wave 1 to Wave 3 (p20)	Figure 3 and Appendix C Table C- 2
Table 3. Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 (p22), Wave 2 (p24), Wave 3 (p26)	Appendix B Figure B- 1 and Appendix C Table C- 3
Table 4. Frequency and Intensity of Tobacco Use by Cigar Type and Cigarettes, Wave 1 (p28), Wave 2 (p29), Wave 3 (p30)	Figure 4, Figure 5, and Appendix C Table C- 4
Table 5. Initiation, Median Age at First Regular use by Cigar Type and Cigarettes, Wave 1 (p31), Wave 2 (p32), Wave 3 (p33)	Figure 6 and Appendix C Table C- 5
Table 6. Progression from Current Cigar Smoker to Everyday Cigarette Smoker, 2013-2016 (p34)	Table 3
Table 7. Progression from Current Cigar Smoker to Someday Cigarette Smoker, 2013-2016 (p35)	Table 4
Table 8. First Traditional Cigar or Cigarette Use Among Current Premium Cigar and Cigarette Smokers (p36)	Table 5
Table 9. Dual Use of Cigars and Cigarettes, Wave 1 (p38), Wave 2 (p39), Wave 3 (p40)	Figure 7 and Appendix C Table C- 6
Table 10. Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 (p41), Wave 2 (p42), Wave 3 (p43)	Table 6
Table 12. Unflavored Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 (p52), Wave 2 (p53), Wave 3 (p54)	Appendix D Table D- 1

Appendix B. Demographic Characteristics of Adult Tobacco Users, Wave 1 to Wave 6

Figure B- 1. Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 5

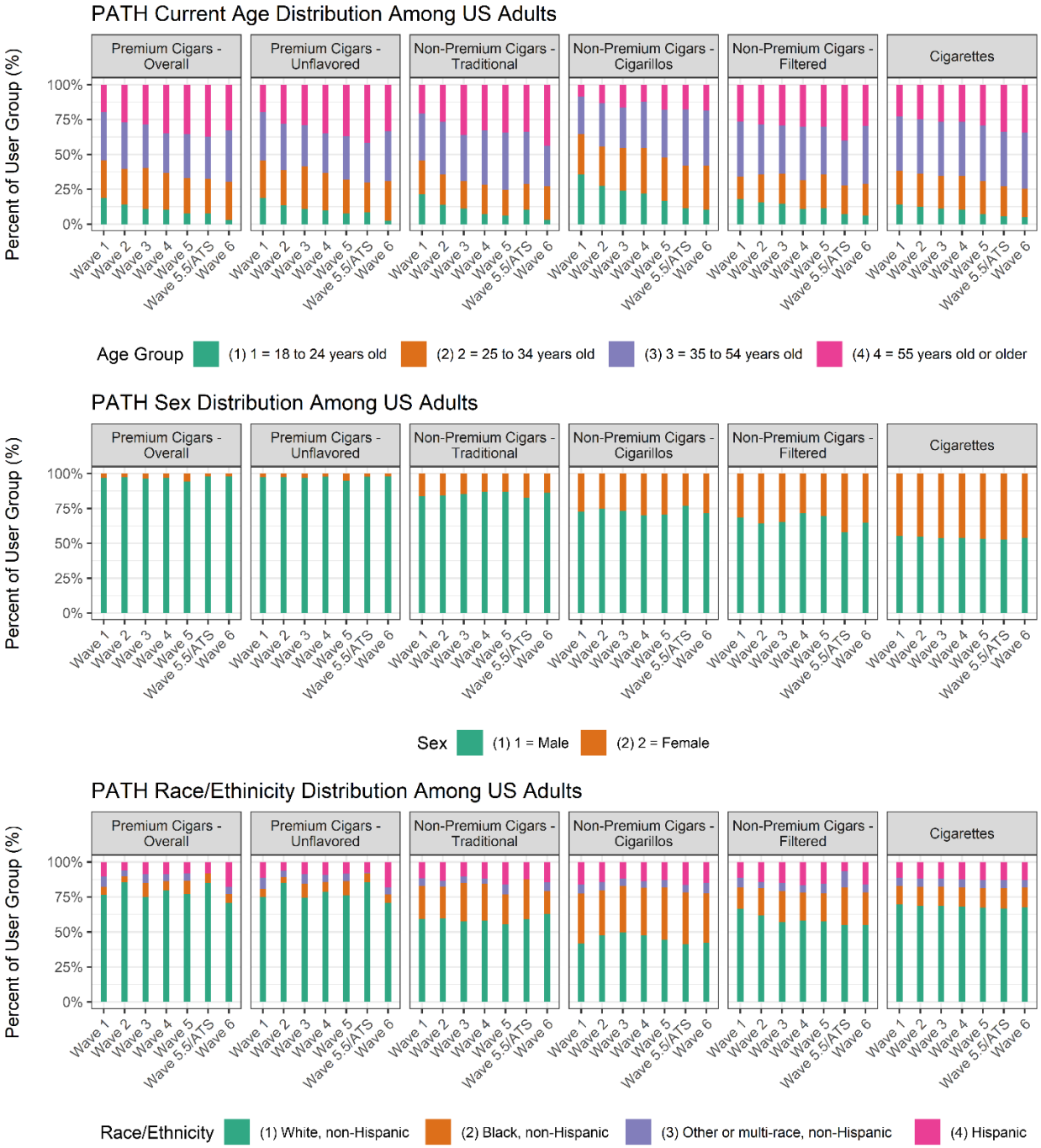
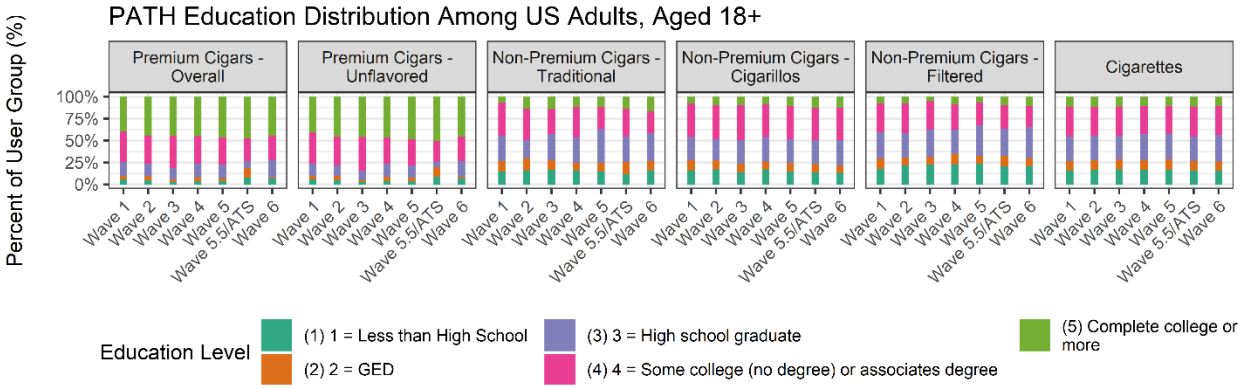
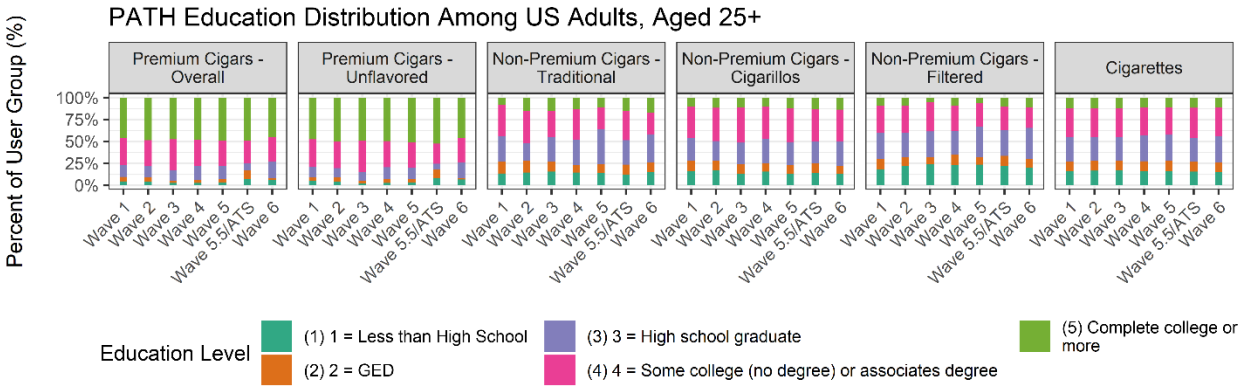
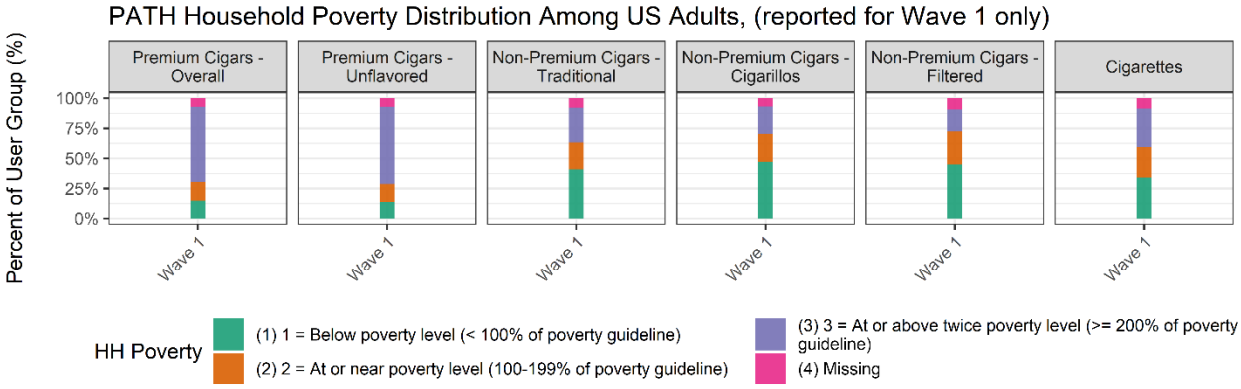


Figure B-1 *continued. Education, Household (HH) Poverty and Income Levels.*







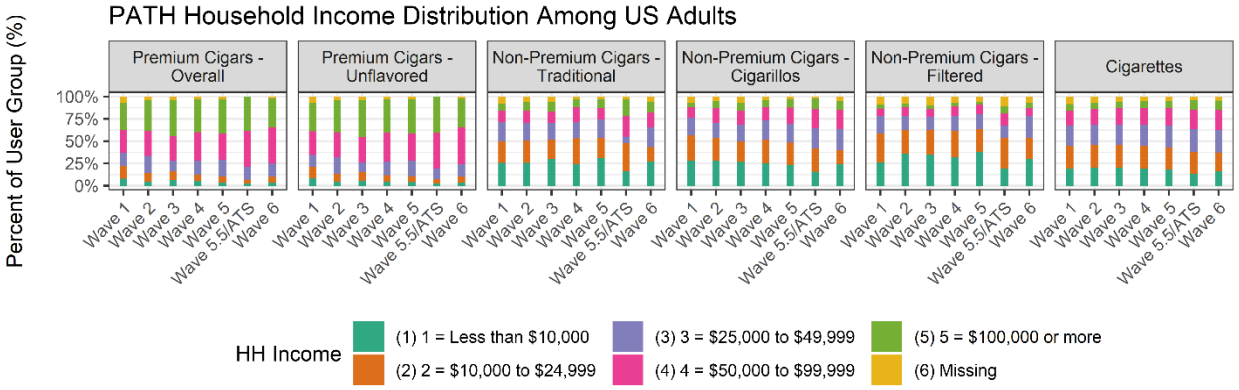
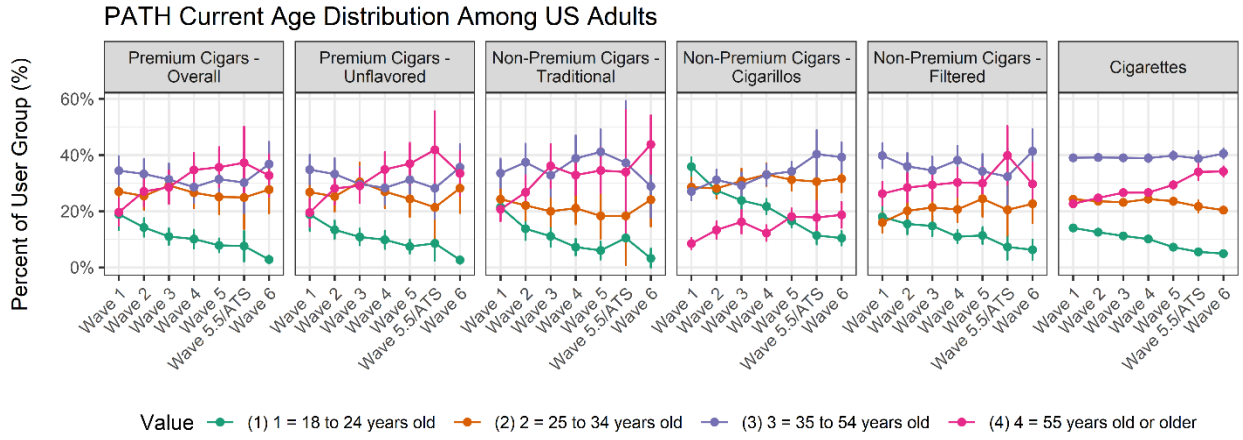
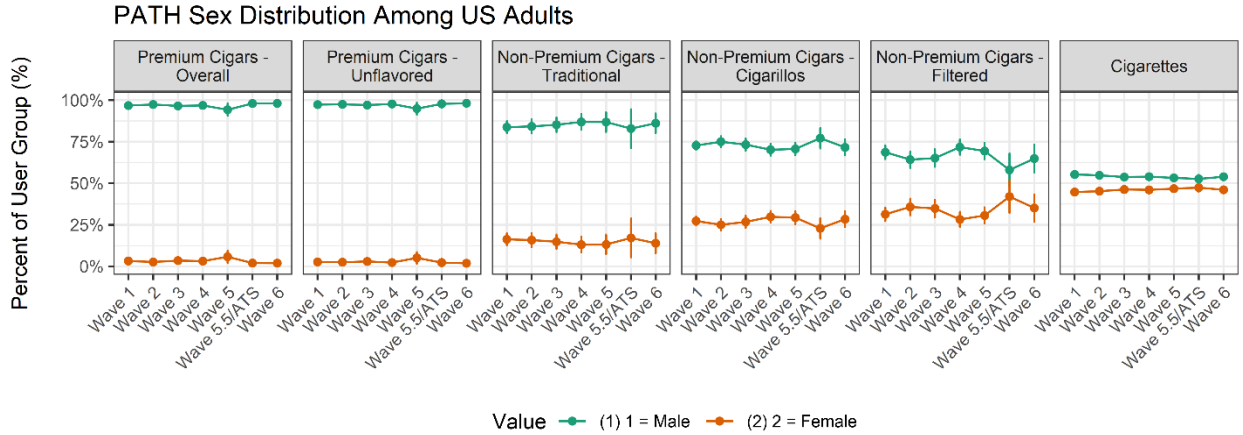


Figure B-1 Alternative (line charts rather than stacked bar): Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6.





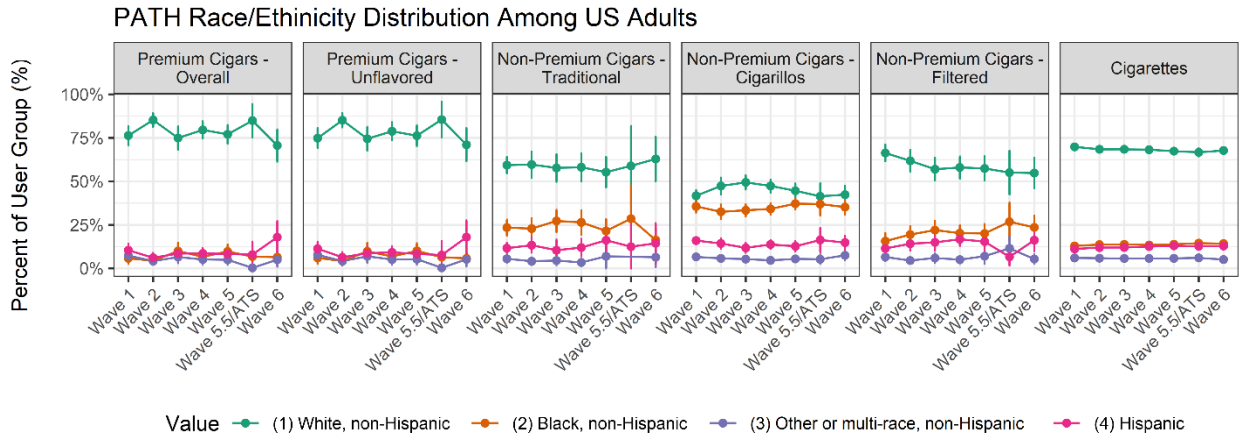
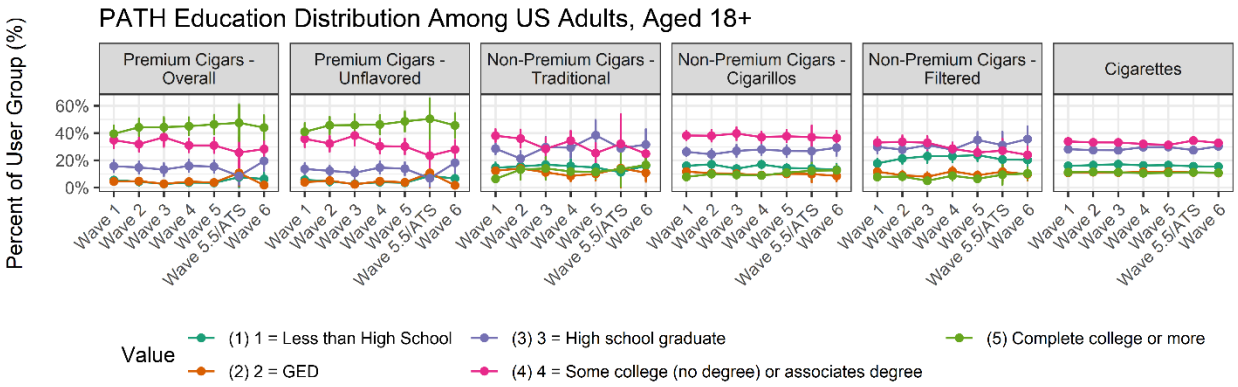
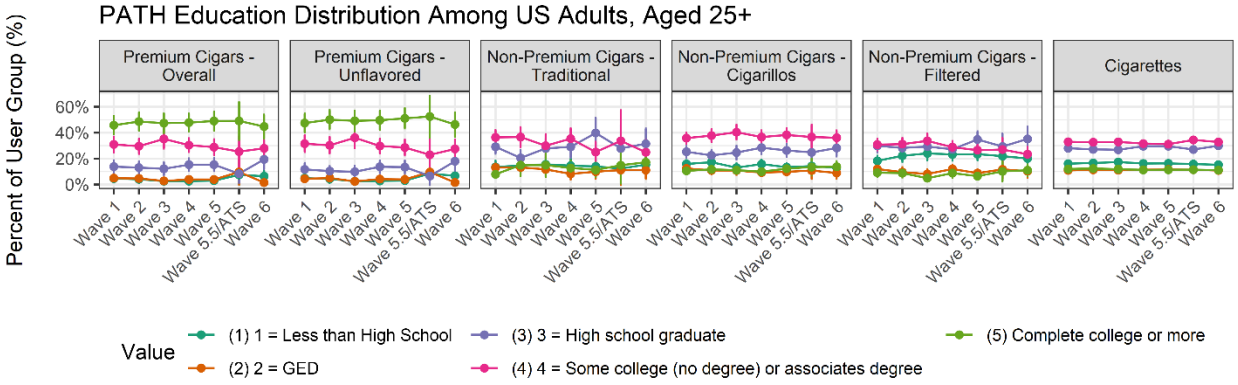
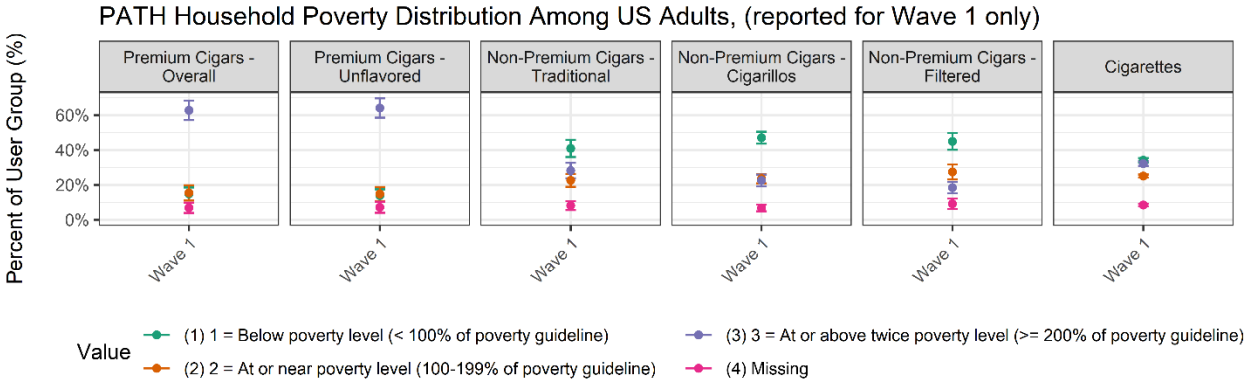
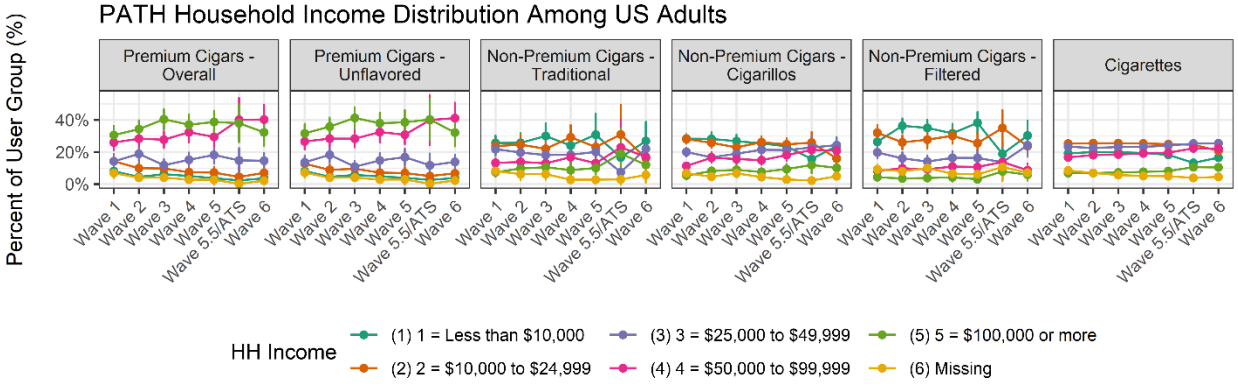


Figure B-1 Alternative (line charts rather than stacked bar) : Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6 *continued*.









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Appendix C. Plotted Value Table for Figures.

Prevalence of Cigar Usage Among Youth Aged 12-17, Wave 1 to Wave 6 (Figure 2 plotted values)

Table C- 1. Prevalence of Cigar Usage Among Youth Aged 12-17, Wave 1 to Wave 6

Premium Cigars		Non-Premium Cigars				
Overall	Unflavored	Overall[1]	Traditional Cigars	Cigarillos	Filtered Cigars	Cigarettes
Wave 1 (13,651 youth respondents)						
0.09% (0.02, 0.16%) 8 records	0.09% (0.02, 0.16%) 8 records	1.43% (1.22, 1.63%) 196 records	0.22% (0.12, 0.33%) 28 records	1.20% (1.01, 1.40%) 165 records	0.23% (0.12, 0.33%) 30 records	3.26% (2.92, 3.60%) 450 records
Wave 2 (12,172 youth respondents)						
0.05% (0.00, 0.09%) 5 records	0.05% (0.00, 0.09%) 5 records	0.62% (0.47, 0.76%) 75 records	0.14% (0.08, 0.21%) 17 records	0.41% (0.30, 0.52%) 50 records	0.19% (0.11, 0.28%) 23 records	2.69% (2.36, 3.03%) 328 records
Wave 3 (11,814 youth respondents)						
0.02% (0.00, 0.05%) 1 record	0.02% (0.00, 0.05%) 1 record	0.51% (0.40, 0.62%) 62 records	0.05% (0.01, 0.10%) 7 records	0.37% (0.27, 0.47%) 44 records	0.18% (0.10, 0.26%) 20 records	2.15% (1.83, 2.46%) 242 records
Wave 4 (14,793 youth respondents)						
No Non-light Users identified	***No Non-light Users identified***	0.59% (0.45, 0.73%) 89 records	0.07% (0.02, 0.11%) 9 records	0.46% (0.34, 0.59%) 69 records	0.14% (0.08, 0.20%) 23 records	1.96% (1.72, 2.20%) 293 records
Wave 4.5 (12,918 youth respondents)						
No Non-light Users identified	***No Non-light Users identified***	0.47% (0.35, 0.58%) 63 records	0.06% (0.01, 0.10%) 8 records	0.37% (0.26, 0.48%) 51 records	0.14% (0.07, 0.21%) 18 records	1.79% (1.50, 2.08%) 252 records
Wave 5 (11,976 youth respondents)						
No Non-light Users identified	***No Non-light Users identified***	0.34% (0.24, 0.44%) 53 records	0.04% (0.00, 0.08%) 5 records	0.26% (0.17, 0.34%) 42 records	0.07% (0.02, 0.11%) 11 records	1.38% (1.12, 1.63%) 184 records
Wave 5.5 (7,129 youth respondents)						
No Non-light Users identified	***No Non-light Users identified***	0.27% (0.12, 0.42%) 20 records	0.05% (0.00, 0.10%) 3 records	0.23% (0.08, 0.37%) 16 records	0.01% (0.00, 0.04%) 2 records	0.80% (0.57, 1.02%) 64 records
Wave 6 (5,585 youth respondents)						
No Non-light Users identified	***No Non-light Users identified***	0.20% (0.06, 0.33%) 11 records	0.03% (0.00, 0.06%) 2 records	0.09% (0.02, 0.15%) 7 records	0.10% (0.00, 0.22%) 3 records	0.60% (0.40, 0.80%) 38 records

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Prevalence of Cigar Usage Among Adults Aged 18 and Older, Wave 1 to Wave 6 (Figure 3 plotted values)

Table C- 2. Prevalence of Cigar Usage Among Adults, Aged 18 Years and Older, Wave 1 to Wave 6

Premium Cigars		Non-Premium Cigars				
Overall	Unflavored	Overall[1]	Traditional Cigars	Cigarillos	Filtered Cigars	Cigarettes
Wave 1 (32,320 adult respondents)						
0.60% (0.53, 0.67%) 340 records	0.56% (0.49, 0.63%) 314 records	2.62% (2.46, 2.79%) 1,751 records	0.79% (0.71, 0.87%) 506 records	1.65% (1.52, 1.79%) 1,186 records	0.89% (0.80, 0.97%) 551 records	18.12% (17.60, 18.64%) 11,402 records
Wave 2 (28,362 adult respondents)						
0.68% (0.59, 0.77%) 322 records	0.64% (0.55, 0.72%) 301 records	2.38% (2.20, 2.55%) 1,329 records	0.45% (0.39, 0.52%) 250 records	1.33% (1.22, 1.44%) 790 records	0.86% (0.74, 0.98%) 473 records	18.62% (18.11, 19.14%) 9,694 records
Wave 3 (28,148 adult respondents)						
0.86% (0.73, 0.99%) 357 records	0.81% (0.68, 0.93%) 336 records	2.36% (2.18, 2.54%) 1,219 records	0.44% (0.38, 0.51%) 222 records	1.21% (1.10, 1.32%) 682 records	0.79% (0.68, 0.91%) 424 records	18.29% (17.70, 18.88%) 9,013 records
Wave 4 (33,644 adult respondents)						
0.74% (0.63, 0.84%) 357 records	0.69% (0.59, 0.79%) 338 records	2.56% (2.39, 2.72%) 1,559 records	0.41% (0.34, 0.48%) 218 records	1.48% (1.37, 1.59%) 992 records	0.83% (0.72, 0.94%) 486 records	17.73% (17.24, 18.23%) 9,915 records
Wave 5 (32,687 adult respondents)						
0.81% (0.69, 0.93%) 363 records	0.75% (0.64, 0.87%) 342 records	2.57% (2.39, 2.76%) 1,475 records	0.44% (0.34, 0.53%) 212 records	1.44% (1.33, 1.55%) 918 records	0.79% (0.67, 0.91%) 440 records	16.45% (15.92, 16.98%) 8,590 records
Wave 5.5/ATS (12,502 adult respondents)						
0.54% (0.39, 0.69%) 85 records	0.48% (0.34, 0.62%) 76 records	2.32% (2.05, 2.59%) 399 records	0.22% (0.15, 0.30%) 37 records	1.30% (1.09, 1.51%) 240 records	0.57% (0.43, 0.70%) 112 records	14.45% (13.79, 15.11%) 2,253 records
Wave 6 (29,516 adult respondents)						
0.90% (0.75, 1.05%) 285 records	0.86% (0.72, 1.01%) 273 records	2.11% (1.94, 2.28%) 909 records	0.35% (0.27, 0.43%) 124 records	1.10% (0.97, 1.22%) 535 records	0.59% (0.48, 0.69%) 251 records	14.39% (13.88, 14.90%) 5,895 records

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Demographics of Adult Tobacco Users, Aged 18 and Older, Wave 1 to Wave 6 (Figure B-1 plotted values)

Table C- 3. Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Age Group (%)							
18 to 24 years old	Wave 1	18.93% (13.43, 24.43%) 95 records	18.85% (12.97, 24.72%) 86 records	21.48% (17.95, 25.00%) 161 records	35.87% (32.52, 39.22%) 586 records	17.98% (14.26, 21.69%) 146 records	14.06% (13.32, 14.80%) 2,478 records
	Wave 2	14.24% (11.01, 17.47%) 66 records	13.38% (10.15, 16.62%) 58 records	13.77% (9.80, 17.74%) 56 records	27.47% (24.52, 30.41%) 306 records	15.54% (11.94, 19.14%) 113 records	12.54% (11.95, 13.12%) 1,869 records
	Wave 3	10.99% (8.03, 13.96%) 62 records	10.84% (7.94, 13.74%) 58 records	11.09% (7.49, 14.69%) 42 records	23.88% (20.51, 27.26%) 238 records	14.85% (11.30, 18.40%) 103 records	11.21% (10.63, 11.80%) 1,595 records
	Wave 4	10.12% (6.89, 13.36%) 61 records	9.85% (6.66, 13.04%) 58 records	7.23% (4.32, 10.14%) 35 records	21.70% (19.08, 24.33%) 342 records	10.94% (8.66, 13.23%) 100 records	10.11% (9.55, 10.68%) 1,739 records
	Wave 5	7.84% (5.43, 10.25%) 58 records	7.47% (5.01, 9.92%) 54 records	6.04% (2.87, 9.22%) 30 records	16.52% (14.35, 18.68%) 272 records	11.38% (8.41, 14.34%) 94 records	7.22% (6.73, 7.70%) 1,174 records
	Wave 5.5/ATS	7.61% (2.12, 13.10%) 10 records	8.55% (2.38, 14.73%) 10 records	10.50% (3.80, 17.19%) 10 records	11.37% (8.25, 14.50%) 66 records	7.30% (2.75, 11.84%) 20 records	5.54% (4.70, 6.37%) 322 records
	Wave 6	2.80% (1.43, 4.17%) 21 records	2.67% (1.33, 4.00%) 20 records	3.23% (0.00, 6.70%) 10 records	10.45% (7.90, 13.00%) 120 records	6.27% (2.83, 9.71%) 31 records	4.92% (4.37, 5.47%) 561 records
25 to 34 years old	Wave 1	26.99% (21.11, 32.86%) 81 records	26.81% (20.63, 33.00%) 75 records	24.30% (20.09, 28.50%) 110 records	28.58% (25.28, 31.88%) 274 records	15.98% (12.44, 19.52%) 82 records	24.27% (23.41, 25.13%) 2,589 records
	Wave 2	25.41% (20.50, 30.33%) 79 records	25.26% (20.00, 30.53%) 74 records	22.07% (16.88, 27.26%) 56 records	28.10% (24.47, 31.73%) 208 records	20.13% (16.64, 23.62%) 94 records	23.58% (22.47, 24.69%) 2,232 records
	Wave 3	29.19% (22.66, 35.73%) 102 records	30.45% (23.69, 37.21%) 99 records	19.98% (14.68, 25.28%) 55 records	30.78% (26.47, 35.08%) 206 records	21.30% (15.60, 27.01%) 86 records	23.15% (22.03, 24.27%) 2,169 records
	Wave 4	26.59% (21.26, 31.93%) 98 records	26.98% (21.10, 32.86%) 93 records	21.09% (15.38, 26.80%) 49 records	33.06% (29.07, 37.04%) 305 records	20.63% (16.25, 25.01%) 109 records	24.35% (23.25, 25.45%) 2,462 records
	Wave 5	25.11% (19.04, 31.17%) 105 records	24.38% (17.97, 30.80%) 97 records	18.31% (10.24, 26.38%) 43 records	31.20% (27.43, 34.97%) 293 records	24.44% (18.10, 30.77%) 111 records	23.56% (22.29, 24.84%) 2,259 records
	Wave 5.5/ATS	24.90% (13.67, 36.14%) 23 records	21.37% (9.74, 33.00%) 18 records	18.32% (0.86, 35.79%) 5 records	30.55% (23.30, 37.81%) 67 records	20.49% (11.36, 29.62%) 21 records	21.72% (19.71, 23.74%) 489 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
25 to 34 years old, *cont.*	Wave 6	27.70% (19.26, 36.14%) 94 records	28.20% (19.43, 36.98%) 90 records	24.10% (14.55, 33.64%) 30 records	31.57% (26.88, 36.26%) 187 records	22.65% (15.97, 29.34%) 67 records	20.39% (19.27, 21.51%) 1,444 records
35 to 54 years old	Wave 1	34.44% (29.29, 39.60%) 106 records	34.79% (29.54, 40.05%) 100 records	33.53% (28.37, 38.69%) 149 records	27.05% (23.98, 30.12%) 250 records	39.79% (35.38, 44.20%) 193 records	39.02% (37.99, 40.04%) 4,099 records
	Wave 2	33.27% (28.03, 38.52%) 98 records	33.21% (27.63, 38.79%) 93 records	37.42% (30.86, 43.99%) 80 records	31.11% (27.40, 34.82%) 202 records	35.93% (31.20, 40.67%) 151 records	39.14% (37.98, 40.31%) 3,516 records
	Wave 3	31.30% (25.56, 37.03%) 104 records	29.67% (23.64, 35.70%) 94 records	32.82% (25.31, 40.32%) 61 records	29.14% (24.53, 33.74%) 160 records	34.52% (29.70, 39.34%) 130 records	39.01% (37.84, 40.19%) 3,218 records
	Wave 4	28.59% (23.03, 34.14%) 96 records	28.31% (22.39, 34.23%) 91 records	38.81% (30.70, 46.91%) 69 records	33.00% (29.40, 36.61%) 247 records	38.16% (33.18, 43.14%) 151 records	38.90% (37.55, 40.25%) 3,439 records
	Wave 5	31.40% (24.91, 37.89%) 101 records	31.22% (24.32, 38.12%) 96 records	41.14% (33.18, 49.09%) 79 records	34.17% (30.86, 37.48%) 236 records	34.21% (28.10, 40.31%) 118 records	39.82% (38.28, 41.37%) 2,988 records
	Wave 5.5/ATS	30.22% (19.35, 41.10%) 28 records	28.21% (17.33, 39.09%) 24 records	37.23% (15.21, 59.24%) 11 records	40.31% (31.71, 48.90%) 73 records	32.34% (22.48, 42.20%) 33 records	38.75% (36.09, 41.41%) 772 records
	Wave 6	36.77% (28.91, 44.63%) 93 records	35.68% (27.48, 43.89%) 88 records	28.89% (17.62, 40.15%) 31 records	39.27% (34.02, 44.52%) 147 records	41.35% (33.57, 49.13%) 76 records	40.53% (38.82, 42.24%) 2,095 records
55 years old or older	Wave 1	19.64% (14.83, 24.44%) 58 records	19.55% (14.53, 24.56%) 53 records	20.70% (16.45, 24.94%) 86 records	8.50% (6.60, 10.40%) 76 records	26.26% (22.02, 30.49%) 130 records	22.66% (21.78, 23.53%) 2,236 records
	Wave 2	27.08% (21.71, 32.45%) 79 records	28.14% (22.40, 33.89%) 76 records	26.74% (20.78, 32.70%) 58 records	13.32% (10.21, 16.43%) 74 records	28.40% (23.18, 33.61%) 115 records	24.74% (23.63, 25.84%) 2,077 records
	Wave 3	28.52% (22.64, 34.39%) 89 records	29.04% (23.02, 35.06%) 85 records	36.11% (28.44, 43.79%) 64 records	16.20% (12.06, 20.35%) 78 records	29.32% (23.78, 34.86%) 105 records	26.62% (25.40, 27.84%) 2,031 records
	Wave 4	34.70% (28.74, 40.66%) 102 records	34.86% (28.67, 41.05%) 96 records	32.87% (25.82, 39.92%) 65 records	12.24% (9.50, 14.97%) 98 records	30.26% (25.23, 35.30%) 126 records	26.64% (25.38, 27.90%) 2,275 records
	Wave 5	35.65% (28.55, 42.76%) 99 records	36.94% (29.56, 44.31%) 95 records	34.51% (26.55, 42.46%) 60 records	18.11% (15.31, 20.92%) 117 records	29.98% (24.20, 35.76%) 117 records	29.40% (28.05, 30.74%) 2,169 records
	Wave 5.5/ATS	37.26% (24.50, 50.03%) 24 records	41.86% (28.20, 55.53%) 24 records	33.95% (11.94, 55.97%) 11 records	17.77% (11.84, 23.69%) 34 records	39.88% (29.47, 50.29%) 38 records	33.99% (31.19, 36.80%) 670 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
55 years old or older *cont.*	Wave 6	32.73% (25.22, 40.24%) 77 records	33.45% (25.51, 41.38%) 75 records	43.78% (33.37, 54.20%) 53 records	18.71% (14.16, 23.26%) 81 records	29.73% (22.05, 37.41%) 77 records	34.16% (32.45, 35.88%) 1,795 records
Sex (%)							
Male	Wave 1	96.73% (94.92, 98.54%) 327 records	97.30% (95.51, 99.08%) 304 records	83.71% (80.08, 87.34%) 416 records	72.70% (70.09, 75.32%) 817 records	68.65% (64.65, 72.64%) 367 records	55.29% (54.21, 56.37%) 5,986 records
	Wave 2	97.35% (95.85, 98.84%) 309 records	97.46% (95.99, 98.94%) 289 records	84.19% (80.03, 88.34%) 198 records	74.99% (71.75, 78.23%) 541 records	64.25% (59.32, 69.17%) 283 records	54.78% (53.77, 55.80%) 4,939 records
	Wave 3	96.51% (94.63, 98.38%) 339 records	97.02% (95.24, 98.81%) 321 records	85.17% (80.88, 89.45%) 175 records	73.24% (69.67, 76.80%) 464 records	65.19% (59.99, 70.38%) 250 records	53.74% (52.67, 54.80%) 4,527 records
	Wave 4	96.81% (95.14, 98.49%) 341 records	97.67% (96.12, 99.22%) 325 records	86.89% (82.29, 91.49%) 178 records	70.17% (66.69, 73.65%) 640 records	71.74% (67.21, 76.27%) 319 records	53.97% (52.77, 55.17%) 4,967 records
	Wave 5	94.21% (90.58, 97.83%) 342 records	94.87% (91.43, 98.30%) 323 records	86.79% (80.90, 92.68%) 173 records	70.64% (66.86, 74.42%) 593 records	69.39% (64.57, 74.20%) 271 records	53.23% (51.86, 54.60%) 4,196 records
	Wave 5.5/ATS	97.99% (95.93, 100%) 81 records	97.74% (95.41, 100%) 72 records	82.87% (71.31, 94.43%) 26 records	77.13% (71.00, 83.26%) 157 records	58.01% (48.26, 67.75%) 59 records	52.63% (50.28, 54.97%) 1,064 records
	Wave 6	98.05% (96.76, 99.34%) 275 records	98.11% (96.78, 99.45%) 264 records	86.08% (80.25, 91.92%) 95 records	71.59% (66.85, 76.34%) 334 records	64.84% (56.68, 73.01%) 144 records	53.93% (52.26, 55.59%) 2,826 records
Female	Wave 1	3.27% (1.46, 5.08%) 13 records	2.70% (0.92, 4.49%) 10 records	16.29% (12.66, 19.92%) 90 records	27.30% (24.68, 29.91%) 369 records	31.35% (27.36, 35.35%) 184 records	44.71% (43.63, 45.79%) 5,416 records
	Wave 2	2.65% (1.16, 4.15%) 12 records	2.54% (1.06, 4.01%) 11 records	15.81% (11.66, 19.97%) 52 records	25.01% (21.77, 28.25%) 249 records	35.75% (30.83, 40.68%) 190 records	45.22% (44.20, 46.23%) 4,753 records
	Wave 3	3.49% (1.62, 5.37%) 17 records	2.98% (1.19, 4.76%) 14 records	14.83% (10.55, 19.12%) 47 records	26.76% (23.20, 30.33%) 218 records	34.81% (29.62, 40.01%) 174 records	46.26% (45.20, 47.33%) 4,484 records
	Wave 4	3.19% (1.51, 4.86%) 16 records	2.33% (0.78, 3.88%) 13 records	13.11% (8.51, 17.71%) 40 records	29.83% (26.35, 33.31%) 352 records	28.26% (23.73, 32.79%) 167 records	46.03% (44.83, 47.23%) 4,948 records
	Wave 5	5.79% (2.17, 9.42%) 20 records	5.13% (1.70, 8.57%) 18 records	13.21% (7.32, 19.10%) 38 records	29.36% (25.58, 33.14%) 324 records	30.61% (25.80, 35.43%) 168 records	46.77% (45.40, 48.14%) 4,389 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Female cont.	Wave 5.5/ATS	2.01% (0.00, 4.07%) 4 records	2.26% (0.00, 4.59%) 4 records	17.13% (5.57, 28.69%) 11 records	22.87% (16.74, 29.00%) 82 records	41.99% (32.25, 51.74%) 53 records	47.37% (45.03, 49.72%) 1,187 records
	Wave 6	1.95% (0.66, 3.24%) 9 records	1.89% (0.55, 3.22%) 8 records	13.92% (8.08, 19.75%) 29 records	28.41% (23.66, 33.15%) 201 records	35.16% (26.99, 43.32%) 107 records	46.07% (44.41, 47.74%) 3,067 records
Race/ethnicity (%)							
White, non-Hispanic	Wave 1	76.33% (70.93, 81.72%) 251 records	74.84% (69.18, 80.49%) 228 records	59.34% (54.60, 64.09%) 279 records	41.73% (38.45, 45.01%) 443 records	66.32% (61.66, 70.98%) 337 records	69.85% (68.66, 71.03%) 7,484 records
	Wave 2	85.29% (81.40, 89.18%) 257 records	85.16% (81.12, 89.20%) 241 records	59.67% (52.13, 67.21%) 128 records	47.37% (42.64, 52.10%) 330 records	61.77% (55.66, 67.88%) 259 records	68.44% (67.24, 69.64%) 6,197 records
	Wave 3	74.94% (68.39, 81.49%) 262 records	74.50% (67.68, 81.32%) 246 records	57.74% (49.82, 65.66%) 108 records	49.39% (45.34, 53.45%) 295 records	56.92% (50.51, 63.34%) 211 records	68.45% (67.16, 69.74%) 5,702 records
	Wave 4	79.58% (74.68, 84.48%) 266 records	78.80% (73.63, 83.97%) 249 records	58.14% (50.13, 66.15%) 108 records	47.39% (43.65, 51.12%) 390 records	58.00% (51.73, 64.26%) 252 records	68.21% (67.00, 69.42%) 6,287 records
	Wave 5	77.03% (71.69, 82.37%) 265 records	76.25% (70.45, 82.05%) 248 records	55.31% (46.49, 64.14%) 103 records	44.61% (40.52, 48.70%) 336 records	57.45% (50.53, 64.38%) 225 records	67.39% (66.02, 68.76%) 5,272 records
	Wave 5.5/ATS	84.93% (75.40, 94.46%) 71 records	85.54% (75.46, 95.62%) 64 records	58.93% (36.07, 81.80%) 18 records	41.43% (33.78, 49.08%) 88 records	55.06% (42.50, 67.63%) 56 records	66.71% (64.45, 68.96%) 1,473 records
	Wave 6	70.63% (61.42, 79.83%) 204 records	71.02% (61.52, 80.52%) 196 records	62.90% (50.11, 75.68%) 57 records	42.39% (37.46, 47.32%) 172 records	54.80% (46.22, 63.38%) 108 records	67.75% (66.23, 69.26%) 3,597 records
Black, non-Hispanic	Wave 1	5.82% (2.59, 9.04%) 20 records	6.02% (2.78, 9.26%) 19 records	23.49% (18.97, 28.01%) 115 records	35.65% (32.19, 39.10%) 417 records	15.67% (10.99, 20.34%) 85 records	12.93% (12.17, 13.68%) 1,465 records
	Wave 2	4.40% (2.10, 6.71%) 16 records	4.24% (1.89, 6.60%) 14 records	22.87% (16.93, 28.80%) 60 records	32.51% (28.37, 36.65%) 253 records	19.43% (14.82, 24.04%) 95 records	13.71% (12.89, 14.53%) 1,367 records
	Wave 3	9.99% (5.15, 14.82%) 33 records	9.80% (4.81, 14.78%) 30 records	27.27% (20.93, 33.60%) 67 records	33.37% (29.93, 36.80%) 235 records	21.99% (16.84, 27.14%) 106 records	13.80% (12.89, 14.71%) 1,314 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Black, non-Hispanic *cont..*	Wave 4	6.67% (3.75, 9.59%) 27 records	6.90% (3.79, 10.01%) 26 records	26.45% (19.50, 33.40%) 61 records	34.21% (31.04, 37.38%) 362 records	20.26% (15.74, 24.77%) 122 records	13.44% (12.66, 14.22%) 1,475 records
	Wave 5	9.73% (5.73, 13.74%) 30 records	10.06% (5.68, 14.43%) 29 records	21.53% (14.70, 28.37%) 55 records	37.19% (34.02, 40.37%) 344 records	20.10% (14.74, 25.45%) 105 records	13.86% (13.09, 14.63%) 1,336 records
	Wave 5.5/ATS	6.80% (0.36, 13.25%) 6 records	6.44% (0.00, 13.02%) 5 records	28.58% (9.49, 47.67%) 14 records	36.95% (30.42, 43.48%) 90 records	26.79% (15.92, 37.66%) 29 records	14.49% (13.25, 15.73%) 335 records
	Wave 6	6.44% (3.12, 9.75%) 21 records	5.77% (2.85, 8.68%) 19 records	16.24% (9.24, 23.23%) 31 records	35.25% (31.06, 39.44%) 207 records	23.58% (16.96, 30.20%) 71 records	14.25% (13.27, 15.24%) 969 records
Other or multi-race, non-Hispanic	Wave 1	7.40% (4.11, 10.69%) 28 records	7.81% (4.26, 11.36%) 26 records	5.53% (3.29, 7.77%) 43 records	6.62% (5.35, 7.90%) 109 records	6.54% (4.26, 8.82%) 51 records	6.02% (5.51, 6.52%) 837 records
	Wave 2	4.20% (2.05, 6.35%) 20 records	4.21% (1.95, 6.47%) 18 records	4.14% (2.01, 6.28%) 17 records	5.81% (4.16, 7.46%) 69 records	4.61% (2.84, 6.38%) 34 records	5.87% (5.36, 6.38%) 700 records
	Wave 3	6.53% (3.08, 9.98%) 26 records	6.97% (3.25, 10.68%) 26 records	4.53% (1.95, 7.10%) 16 records	5.43% (3.61, 7.25%) 50 records	6.12% (3.38, 8.86%) 33 records	5.71% (5.14, 6.28%) 632 records
	Wave 4	5.15% (2.48, 7.82%) 24 records	5.10% (2.40, 7.80%) 23 records	3.42% (1.30, 5.55%) 15 records	4.63% (3.58, 5.69%) 83 records	5.02% (2.87, 7.16%) 34 records	5.78% (5.17, 6.39%) 769 records
	Wave 5	4.95% (2.27, 7.63%) 23 records	5.33% (2.41, 8.24%) 23 records	6.96% (0.00, 14.18%) 18 records	5.47% (3.87, 7.07%) 82 records	7.05% (2.75, 11.34%) 37 records	5.77% (5.13, 6.41%) 624 records
	Wave 5.5/ATS	0.32% (0.00, 1.02%) 1 records	0.36% (0.00, 1.16%) 1 records	*No available records*	5.26% (2.58, 7.94%) 23 records	11.53% (4.56, 18.49%) 15 records	6.05% (4.63, 7.46%) 139 records
	Wave 6	4.99% (1.03, 8.96%) 16 records	5.23% (1.08, 9.39%) 16 records	6.43% (0.77, 12.09%) 10 records	7.52% (4.72, 10.33%) 54 records	5.39% (2.66, 8.12%) 21 records	5.10% (4.46, 5.73%) 394 records
Hispanic	Wave 1	10.46% (6.73, 14.19%) 40 records	11.34% (7.33, 15.34%) 40 records	11.64% (8.62, 14.66%) 64 records	16.00% (14.03, 17.96%) 201 records	11.48% (8.73, 14.22%) 68 records	11.21% (10.54, 11.88%) 1,453 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Hispanic *cont.*	Wave 2	6.11% (3.33, 8.89%) 24 records	6.39% (3.44, 9.34%) 23 records	13.32% (9.09, 17.56%) 39 records	14.32% (11.45, 17.19%) 127 records	14.19% (10.18, 18.20%) 77 records	11.97% (11.21, 12.74%) 1,256 records
	Wave 3	8.55% (5.53, 11.57%) 33 records	8.74% (5.46, 12.02%) 31 records	10.47% (4.44, 16.49%) 24 records	11.81% (9.04, 14.58%) 95 records	14.96% (10.35, 19.58%) 63 records	12.04% (11.20, 12.88%) 1,199 records
	Wave 4	8.60% (5.47, 11.73%) 40 records	9.20% (5.85, 12.56%) 40 records	11.99% (7.04, 16.94%) 34 records	13.77% (11.26, 16.28%) 157 records	16.73% (13.01, 20.46%) 78 records	12.57% (11.75, 13.39%) 1,384 records
	Wave 5	8.29% (5.23, 11.34%) 41 records	8.37% (5.01, 11.73%) 38 records	16.20% (8.82, 23.57%) 29 records	12.72% (9.78, 15.67%) 147 records	15.40% (10.43, 20.37%) 60 records	12.98% (12.05, 13.92%) 1,199 records
	Wave 5.5/ATS	7.95% (0.50, 15.39%) 6 records	7.65% (0.00, 15.73%) 5 records	12.49% (0.00, 27.85%) 4 records	16.35% (9.50, 23.21%) 34 records	6.62% (1.83, 11.42%) 9 records	12.75% (11.06, 14.45%) 265 records
	Wave 6	17.94% (8.80, 27.09%) 40 records	17.98% (8.39, 27.57%) 38 records	14.44% (2.89, 25.98%) 18 records	14.84% (10.99, 18.69%) 91 records	16.23% (10.01, 22.46%) 45 records	12.90% (11.93, 13.87%) 813 records
Education for adults aged 18+ (%)							
Less than High School	Wave 1	5.45% (2.93, 7.98%) 19 records	5.75% (3.05, 8.46%) 18 records	14.61% (10.96, 18.27%) 82 records	16.00% (13.91, 18.08%) 200 records	17.75% (14.50, 20.99%) 95 records	15.93% (15.16, 16.70%) 1,896 records
	Wave 2	4.35% (1.55, 7.14%) 13 records	4.56% (1.57, 7.55%) 12 records	15.52% (11.49, 19.56%) 45 records	17.07% (13.87, 20.28%) 145 records	21.34% (17.27, 25.41%) 103 records	16.49% (15.64, 17.34%) 1,705 records
Less than High School *cont.*	Wave 3	2.72% (0.87, 4.57%) 11 records	2.65% (0.74, 4.57%) 10 records	16.76% (11.27, 22.24%) 41 records	13.85% (11.05, 16.65%) 107 records	22.99% (18.18, 27.80%) 98 records	17.17% (16.20, 18.15%) 1,631 records
	Wave 4	3.71% (1.15, 6.27%) 14 records	3.97% (1.23, 6.71%) 14 records	15.88% (10.50, 21.25%) 43 records	16.98% (14.01, 19.95%) 181 records	23.02% (18.82, 27.21%) 112 records	16.29% (15.35, 17.23%) 1,745 records
	Wave 5	3.47% (1.30, 5.64%) 15 records	3.53% (1.24, 5.83%) 14 records	14.70% (9.12, 20.29%) 43 records	14.39% (11.69, 17.09%) 154 records	23.82% (19.27, 28.38%) 106 records	16.47% (15.42, 17.51%) 1,525 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Less than High School *cont.*	Wave 5.5/ATS	7.61% (0.00, 16.86%) 4 records	8.56% (0.00, 18.82%) 4 records	11.26% (0.00, 23.76%) 4 records	13.99% (8.04, 19.93%) 30 records	20.63% (10.77, 30.49%) 20 records	15.62% (13.73, 17.52%) 293 records
	Wave 6	6.34% (1.94, 10.73%) 13 records	6.63% (2.04, 11.23%) 13 records	16.07% (9.47, 22.68%) 25 records	13.15% (8.87, 17.42%) 75 records	20.34% (13.50, 27.17%) 56 records	15.45% (14.26, 16.65%) 979 records
GED	Wave 1	4.49% (2.03, 6.95%) 16 records	3.93% (1.60, 6.26%) 12 records	12.37% (9.49, 15.25%) 67 records	11.72% (10.00, 13.43%) 146 records	11.67% (8.81, 14.53%) 63 records	10.85% (10.14, 11.56%) 1,285 records
	Wave 2	4.75% (2.50, 7.00%) 17 records	5.10% (2.68, 7.51%) 17 records	14.01% (9.52, 18.51%) 39 records	10.56% (8.27, 12.85%) 88 records	9.06% (5.76, 12.36%) 44 records	11.30% (10.41, 12.18%) 1,149 records
	Wave 3	2.79% (1.13, 4.45%) 11 records	2.38% (0.69, 4.07%) 9 records	11.19% (6.90, 15.47%) 26 records	10.16% (7.61, 12.72%) 73 records	7.92% (4.68, 11.17%) 32 records	11.03% (10.26, 11.79%) 1,054 records
	Wave 4	4.35% (2.04, 6.66%) 15 records	4.66% (2.20, 7.12%) 15 records	8.54% (4.63, 12.45%) 24 records	9.17% (7.15, 11.18%) 100 records	12.01% (8.96, 15.06%) 64 records	11.51% (10.76, 12.26%) 1,205 records
	Wave 5	3.74% (1.32, 6.15%) 14 records	3.84% (1.12, 6.56%) 12 records	10.13% (5.17, 15.09%) 26 records	10.09% (7.66, 12.51%) 95 records	9.03% (6.26, 11.81%) 40 records	11.69% (10.76, 12.63%) 1,058 records
	Wave 5.5/ATS	10.68% (1.13, 20.23%) 6 records	10.73% (0.13, 21.32%) 5 records	14.21% (0.00, 29.64%) 4 records	9.92% (4.04, 15.80%) 17 records	11.67% (4.56, 18.77%) 12 records	11.15% (9.35, 12.95%) 209 records
	Wave 6	1.86% (0.22, 3.50%) 6 records	1.69% (0.10, 3.28%) 5 records	10.88% (4.33, 17.42%) 13 records	8.55% (4.77, 12.34%) 48 records	9.79% (5.24, 14.35%) 26 records	10.66% (9.65, 11.67%) 627 records
High school graduate	Wave 1	15.75% (11.40, 20.11%) 52 records	13.63% (9.44, 17.83%) 44 records	28.54% (24.55, 32.53%) 130 records	26.27% (23.25, 29.28%) 301 records	29.77% (25.32, 34.23%) 146 records	28.13% (26.89, 29.38%) 2,876 records
	Wave 2	14.75% (10.39, 19.11%) 44 records	12.30% (8.50, 16.10%) 36 records	21.28% (15.94, 26.63%) 52 records	24.37% (20.69, 28.06%) 181 records	27.87% (23.02, 32.72%) 111 records	27.53% (26.40, 28.65%) 2,439 records
	Wave 3	13.23% (8.70, 17.76%) 44 records	10.88% (6.71, 15.05%) 36 records	29.58% (22.09, 37.07%) 66 records	26.88% (22.61, 31.15%) 180 records	31.13% (24.87, 37.39%) 118 records	27.41% (26.28, 28.55%) 2,307 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
High school graduate *cont.*	Wave 4	15.94% (11.61, 20.26%) 54 records	14.67% (10.31, 19.04%) 50 records	29.32% (21.68, 36.96%) 55 records	27.99% (24.09, 31.89%) 247 records	27.81% (22.65, 32.96%) 121 records	29.65% (28.33, 30.97%) 2,543 records
	Wave 5	15.43% (10.86, 19.99%) 51 records	13.84% (9.08, 18.59%) 47 records	38.41% (27.24, 49.57%) 60 records	26.85% (22.68, 31.02%) 244 records	34.95% (29.16, 40.74%) 130 records	29.76% (28.43, 31.10%) 2,245 records
	Wave 5.5/ATS	8.51% (1.87, 15.14%) 7 records	6.86% (0.61, 13.10%) 5 records	28.84% (11.49, 46.19%) 12 records	26.77% (18.98, 34.55%) 58 records	31.12% (21.15, 41.10%) 31 records	27.49% (25.18, 29.79%) 541 records
	Wave 6	19.52% (12.13, 26.92%) 41 records	18.17% (10.87, 25.47%) 37 records	31.59% (20.41, 42.78%) 29 records	29.24% (23.51, 34.97%) 149 records	35.58% (26.45, 44.71%) 76 records	30.30% (28.68, 31.91%) 1,580 records
Some college (no degree) or associates degree	Wave 1	34.81% (29.17, 40.45%) 131 records	35.75% (29.80, 41.70%) 124 records	38.06% (33.43, 42.69%) 192 records	38.18% (35.00, 41.35%) 454 records	33.05% (29.26, 36.83%) 199 records	33.83% (32.71, 34.95%) 4,065 records
	Wave 2	31.91% (26.56, 37.25%) 110 records	32.33% (26.53, 38.13%) 104 records	35.94% (29.41, 42.46%) 91 records	38.04% (33.90, 42.19%) 301 records	33.66% (29.08, 38.24%) 171 records	33.15% (31.89, 34.42%) 3,337 records
	Wave 3	36.92% (29.98, 43.86%) 144 records	38.19% (30.87, 45.51%) 140 records	28.43% (20.13, 36.74%) 64 records	39.73% (35.04, 44.41%) 261 records	32.94% (27.99, 37.89%) 145 records	33.12% (31.89, 34.34%) 3,053 records
	Wave 4	30.99% (26.08, 35.90%) 123 records	30.42% (25.30, 35.53%) 113 records	34.42% (27.00, 41.84%) 72 records	37.00% (32.93, 41.06%) 374 records	28.47% (24.02, 32.92%) 143 records	32.00% (30.66, 33.35%) 3,372 records
	Wave 5	30.97% (25.47, 36.48%) 131 records	30.20% (24.58, 35.82%) 120 records	25.31% (17.84, 32.78%) 62 records	37.70% (33.39, 42.00%) 335 records	25.73% (21.72, 29.74%) 130 records	31.26% (29.94, 32.58%) 2,846 records
	Wave 5.5/ATS	25.68% (14.33, 37.04%) 22 records	23.41% (11.80, 35.03%) 19 records	32.09% (10.62, 53.57%) 9 records	36.94% (28.43, 45.46%) 89 records	27.15% (18.23, 36.06%) 38 records	34.50% (32.08, 36.93%) 825 records
	Wave 6	28.27% (21.68, 34.86%) 95 records	27.90% (20.97, 34.84%) 90 records	24.83% (15.83, 33.83%) 36 records	36.40% (31.23, 41.57%) 193 records	23.93% (18.02, 29.85%) 67 records	32.75% (31.22, 34.29%) 2,041 records
Completed college or more	Wave 1	39.49% (33.45, 45.53%) 121 records	40.94% (34.69, 47.18%) 115 records	6.41% (4.11, 8.72%) 31 records	7.84% (6.07, 9.61%) 79 records	7.76% (5.17, 10.35%) 43 records	11.25% (10.58, 11.93%) 1,201 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Completed college or more *cont.*	Wave 2	44.24% (38.07, 50.42%) 135 records	45.72% (39.44, 52.00%) 130 records	13.25% (5.98, 20.52%) 23 records	9.95% (7.27, 12.63%) 74 records	8.07% (5.36, 10.79%) 39 records	11.53% (10.75, 12.31%) 1,013 records
	Wave 3	44.33% (37.09, 51.58%) 144 records	45.90% (38.24, 53.57%) 138 records	14.04% (5.76, 22.33%) 21 records	9.38% (6.73, 12.04%) 57 records	5.02% (3.09, 6.95%) 22 records	11.27% (10.33, 12.21%) 915 records
	Wave 4	45.02% (38.53, 51.50%) 149 records	46.28% (39.38, 53.19%) 144 records	11.84% (6.67, 17.01%) 21 records	8.87% (6.74, 10.99%) 80 records	8.70% (5.38, 12.01%) 40 records	10.54% (9.73, 11.36%) 991 records
	Wave 5	46.40% (39.41, 53.39%) 151 records	48.59% (41.22, 55.96%) 148 records	11.45% (6.36, 16.54%) 21 records	10.98% (8.14, 13.82%) 86 records	6.46% (4.11, 8.81%) 31 records	10.81% (9.90, 11.73%) 863 records
	Wave 5.5/ATS	47.52% (33.96, 61.08%) 44 records	50.44% (35.73, 65.15%) 41 records	13.60% (0.81, 26.39%) 4 records	12.39% (6.61, 18.16%) 25 records	9.43% (2.25, 16.62%) 7 records	11.24% (9.65, 12.84%) 286 records
	Wave 6	44.01% (35.14, 52.87%) 129 records	45.61% (36.60, 54.61%) 127 records	16.63% (8.93, 24.32%) 20 records	12.66% (8.72, 16.59%) 66 records	10.36% (6.20, 14.51%) 25 records	10.83% (9.91, 11.74%) 643 records
Education for adults aged 25+ (%)							
Less than High School, *aged 25+*	Wave 1	4.58% (1.60, 7.56%) 10 records	4.96% (1.74, 8.18%) 10 records	13.52% (8.80, 18.25%) 48 records	15.89% (12.95, 18.83%) 98 records	18.26% (14.33, 22.18%) 70 records	16.12% (15.24, 17.01%) 1,496 records
	Wave 2	4.06% (1.03, 7.08%) 9 records	4.32% (1.11, 7.52%) 9 records	14.70% (9.67, 19.73%) 32 records	17.21% (13.09, 21.33%) 86 records	22.19% (17.53, 26.85%) 82 records	16.62% (15.69, 17.54%) 1,371 records
	Wave 3	2.60% (0.54, 4.65%) 8 records	2.48% (0.35, 4.61%) 7 records	15.58% (9.93, 21.24%) 31 records	13.03% (9.83, 16.23%) 61 records	24.03% (18.81, 29.25%) 75 records	17.33% (16.25, 18.42%) 1,337 records
	Wave 4	2.60% (0.18, 5.03%) 8 records	2.78% (0.19, 5.36%) 8 records	14.59% (8.87, 20.31%) 31 records	15.78% (12.40, 19.15%) 111 records	23.21% (18.44, 27.98%) 92 records	16.23% (15.24, 17.23%) 1,431 records
	Wave 5	2.99% (0.62, 5.37%) 8 records	3.00% (0.49, 5.50%) 7 records	13.95% (8.29, 19.60%) 35 records	13.39% (10.39, 16.38%) 94 records	23.46% (18.58, 28.34%) 81 records	16.33% (15.27, 17.38%) 1,272 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Less than High School, *aged 25+ cont.*	Wave 5.5/ATS	7.44% (0.00, 17.40%) 3 records	8.45% (0.00, 19.62%) 3 records	12.33% (0.00, 26.29%) 4 records	14.24% (7.75, 20.74%) 25 records	21.88% (11.61, 32.15%) 19 records	15.78% (13.80, 17.75%) 265 records
	Wave 6	6.43% (1.92, 10.94%) 12 records	6.72% (2.02, 11.43%) 12 records	15.35% (8.63, 22.07%) 22 records	13.07% (8.40, 17.73%) 55 records	20.09% (13.11, 27.08%) 45 records	15.29% (14.08, 16.50%) 857 records
GED	Wave 1	4.95% (2.08, 7.81%) 12 records	4.45% (1.65, 7.25%) 10 records	13.07% (9.70, 16.45%) 49 records	12.42% (10.03, 14.81%) 79 records	11.93% (8.48, 15.37%) 47 records	10.92% (10.18, 11.65%) 1,007 records
	Wave 2	4.72% (2.11, 7.33%) 12 records	5.02% (2.25, 7.79%) 12 records	13.20% (8.26, 18.14%) 27 records	10.88% (7.99, 13.78%) 55 records	9.59% (5.79, 13.40%) 34 records	11.34% (10.43, 12.25%) 925 records
	Wave 3	2.78% (0.83, 4.73%) 9 records	2.45% (0.59, 4.32%) 8 records	11.70% (6.87, 16.52%) 22 records	10.81% (7.55, 14.07%) 52 records	8.14% (4.44, 11.85%) 25 records	11.07% (10.28, 11.87%) 873 records
	Wave 4	3.94% (1.57, 6.30%) 12 records	4.20% (1.69, 6.71%) 12 records	8.22% (3.99, 12.45%) 20 records	9.25% (6.89, 11.60%) 74 records	11.99% (8.66, 15.32%) 52 records	11.37% (10.57, 12.17%) 996 records
	Wave 5	3.87% (1.28, 6.47%) 13 records	3.95% (1.04, 6.86%) 11 records	9.91% (4.60, 15.21%) 23 records	9.85% (7.06, 12.65%) 69 records	8.81% (5.80, 11.82%) 31 records	11.62% (10.65, 12.59%) 924 records
	Wave 5.5/ATS	9.69% (0.00, 19.57%) 5 records	9.61% (0.00, 20.62%) 4 records	11.18% (0.00, 27.11%) 2 records	10.78% (4.34, 17.22%) 16 records	11.69% (4.24, 19.14%) 10 records	11.40% (9.54, 13.26%) 198 records
	Wave 6	1.51% (0.00, 3.05%) 4 records	1.58% (0.00, 3.18%) 4 records	11.08% (4.28, 17.88%) 12 records	8.93% (4.81, 13.05%) 40 records	10.31% (5.40, 15.21%) 25 records	10.86% (9.80, 11.92%) 588 records
High school graduate	Wave 1	13.82% (8.88, 18.75%) 28 records	11.65% (6.67, 16.64%) 23 records	29.10% (23.81, 34.38%) 85 records	25.29% (20.86, 29.72%) 125 records	29.86% (24.65, 35.08%) 97 records	27.99% (26.62, 29.35%) 2,087 records
	Wave 2	13.06% (8.50, 17.62%) 27 records	10.37% (6.57, 14.17%) 21 records	20.50% (14.34, 26.65%) 38 records	22.48% (18.17, 26.80%) 92 records	28.25% (22.66, 33.85%) 81 records	27.12% (25.93, 28.32%) 1,831 records
	Wave 3	12.14% (7.15, 17.14%) 31 records	9.85% (5.35, 14.35%) 25 records	27.85% (20.04, 35.67%) 48 records	24.69% (19.34, 30.03%) 97 records	29.27% (22.39, 36.15%) 81 records	26.81% (25.61, 28.01%) 1,766 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
High school graduate, aged 25+ *cont.*	Wave 4	15.32% (10.47, 20.16%) 39 records	13.70% (8.84, 18.55%) 35 records	29.04% (20.87, 37.22%) 43 records	28.42% (23.61, 33.22%) 138 records	27.18% (21.18, 33.19%) 84 records	29.56% (28.13, 30.99%) 1,930 records
	Wave 5	15.32% (10.35, 20.30%) 39 records	13.44% (8.36, 18.53%) 35 records	39.79% (28.13, 51.45%) 54 records	26.29% (21.49, 31.09%) 155 records	34.76% (28.49, 41.02%) 97 records	29.56% (28.14, 30.97%) 1,842 records
	Wave 5.5/ATS	8.36% (1.36, 15.37%) 6 records	6.55% (0.00, 13.15%) 4 records	27.90% (9.61, 46.18%) 9 records	24.80% (16.46, 33.14%) 39 records	29.33% (19.16, 39.50%) 23 records	27.01% (24.65, 29.36%) 461 records
	Wave 6	19.39% (11.86, 26.93%) 34 records	17.95% (10.52, 25.37%) 30 records	31.48% (19.80, 43.16%) 26 records	28.19% (21.72, 34.67%) 104 records	35.18% (25.80, 44.56%) 63 records	29.93% (28.27, 31.60%) 1,374 records
Some college (no degree) or associates degree	Wave 1	30.92% (24.92, 36.93%) 86 records	31.51% (25.10, 37.92%) 81 records	36.37% (30.83, 41.90%) 130 records	35.83% (31.67, 39.99%) 230 records	30.80% (26.45, 35.14%) 145 records	32.96% (31.73, 34.20%) 3,199 records
	Wave 2	29.57% (23.72, 35.42%) 82 records	30.25% (23.93, 36.57%) 79 records	36.66% (29.03, 44.29%) 75 records	37.75% (32.83, 42.67%) 191 records	31.18% (26.14, 36.22%) 124 records	32.63% (31.27, 34.00%) 2,731 records
	Wave 3	35.16% (27.76, 42.56%) 113 records	36.09% (28.33, 43.85%) 109 records	29.93% (20.90, 38.95%) 59 records	40.38% (34.70, 46.05%) 183 records	33.67% (28.02, 39.32%) 116 records	32.88% (31.63, 34.14%) 2,557 records
	Wave 4	30.39% (25.11, 35.68%) 99 records	29.74% (24.24, 35.24%) 91 records	35.38% (27.52, 43.24%) 65 records	36.62% (31.51, 41.74%) 256 records	28.81% (24.03, 33.59%) 119 records	31.58% (30.15, 33.00%) 2,850 records
	Wave 5	28.81% (22.71, 34.92%) 102 records	28.54% (22.47, 34.60%) 95 records	25.07% (17.19, 32.95%) 51 records	38.25% (33.13, 43.38%) 251 records	26.50% (22.03, 30.97%) 111 records	31.12% (29.79, 32.45%) 2,507 records
	Wave 5.5/ATS	25.43% (13.26, 37.59%) 19 records	22.93% (10.44, 35.41%) 16 records	33.70% (10.15, 57.25%) 8 records	36.65% (27.41, 45.89%) 70 records	26.98% (17.78, 36.17%) 33 records	34.39% (31.91, 36.87%) 739 records
	Wave 6	27.92% (21.10, 34.75%) 87 records	27.46% (20.29, 34.63%) 82 records	24.91% (15.48, 34.33%) 33 records	36.10% (30.50, 41.70%) 151 records	23.37% (17.78, 28.96%) 61 records	32.81% (31.27, 34.35%) 1,874 records
Completed college or more	Wave 1	45.74% (38.73, 52.74%) 109 records	47.43% (40.27, 54.59%) 104 records	7.94% (4.99, 10.89%) 30 records	10.57% (7.87, 13.27%) 64 records	9.16% (6.04, 12.27%) 41 records	12.01% (11.25, 12.77%) 1,072 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Completed college or more, aged 25+ *cont.*	Wave 2	48.60% (41.50, 55.69%) 125 records	50.04% (42.75, 57.33%) 121 records	14.95% (6.70, 23.19%) 22 records	11.67% (8.20, 15.13%) 59 records	8.78% (5.51, 12.06%) 34 records	12.29% (11.42, 13.16%) 928 records
	Wave 3	47.32% (39.76, 54.89%) 132 records	49.12% (41.20, 57.05%) 127 records	14.94% (5.73, 24.15%) 19 records	11.09% (7.70, 14.48%) 49 records	4.89% (2.58, 7.19%) 18 records	11.90% (10.89, 12.91%) 841 records
	Wave 4	47.76% (40.94, 54.58%) 136 records	49.59% (42.26, 56.91%) 132 records	12.77% (7.11, 18.43%) 21 records	9.94% (7.32, 12.56%) 65 records	8.81% (5.27, 12.35%) 34 records	11.26% (10.36, 12.16%) 918 records
	Wave 5	48.99% (41.65, 56.34%) 142 records	51.07% (43.34, 58.80%) 139 records	11.29% (5.77, 16.80%) 19 records	12.22% (8.80, 15.63%) 76 records	6.48% (3.91, 9.05%) 24 records	11.37% (10.39, 12.36%) 826 records
	Wave 5.5/ATS	49.07% (34.47, 63.68%) 42 records	52.47% (36.42, 68.51%) 39 records	14.89% (0.84, 28.95%) 4 records	13.52% (7.10, 19.94%) 24 records	10.13% (2.37, 17.89%) 7 records	11.42% (9.79, 13.06%) 268 records
	Wave 6	44.74% (35.62, 53.87%) 126 records	46.30% (37.06, 55.55%) 124 records	17.19% (9.12, 25.25%) 20 records	13.71% (9.36, 18.06%) 62 records	11.05% (6.65, 15.45%) 25 records	11.11% (10.16, 12.06%) 621 records
Household poverty (%) – *reported for Wave 1 only*							
Below poverty level (< 100% FPL)	Wave 1	14.86% (11.19, 18.53%) 67 records	13.88% (10.24, 17.53%) 59 records	40.94% (36.00, 45.89%) 217 records	47.08% (43.68, 50.47%) 580 records	44.93% (40.14, 49.73%) 259 records	34.16% (32.91, 35.41%) 4,258 records
At or near poverty level (100-199% FPL)	Wave 1	15.46% (11.09, 19.83%) 54 records	14.82% (10.79, 18.84%) 50 records	22.62% (18.92, 26.31%) 122 records	23.58% (20.90, 26.25%) 274 records	27.43% (23.16, 31.71%) 142 records	25.08% (24.17, 25.99%) 2,839 records
At or above twice poverty level (>= 200% FPL)	Wave 1	62.77% (57.21, 68.33%) 197 records	64.09% (58.53, 69.65%) 185 records	28.26% (23.83, 32.70%) 126 records	22.56% (19.19, 25.92%) 251 records	18.43% (15.19, 21.67%) 103 records	32.25% (30.91, 33.60%) 3,357 records
Missing	Wave 1	6.91% (3.95, 9.87%) 22 records	7.21% (4.04, 10.39%) 20 records	8.17% (5.59, 10.76%) 41 records	6.79% (4.90, 8.68%) 81 records	9.20% (6.20, 12.21%) 47 records	8.51% (7.79, 9.22%) 948 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Household income (%)							
Less than $10,000	Wave 1	8.04% (5.29, 10.79%) 38 records	8.12% (5.20, 11.04%) 35 records	25.66% (21.19, 30.12%) 136 records	28.33% (25.60, 31.06%) 358 records	26.39% (21.82, 30.97%) 152 records	19.20% (18.18, 20.21%) 2,411 records
	Wave 2	4.53% (2.54, 6.53%) 19 records	4.57% (2.35, 6.79%) 18 records	25.77% (19.89, 31.65%) 78 records	28.24% (24.22, 32.25%) 241 records	36.44% (31.97, 40.92%) 176 records	19.99% (18.92, 21.05%) 2,168 records
	Wave 3	6.17% (3.87, 8.48%) 29 records	5.75% (3.34, 8.16%) 26 records	30.02% (22.31, 37.73%) 75 records	26.79% (22.97, 30.61%) 202 records	35.02% (29.92, 40.13%) 157 records	19.83% (18.69, 20.97%) 2,041 records
	Wave 4	5.11% (3.00, 7.23%) 24 records	4.82% (2.62, 7.01%) 22 records	24.05% (15.23, 32.87%) 58 records	25.42% (21.45, 29.40%) 262 records	31.69% (25.82, 37.55%) 163 records	19.44% (18.26, 20.62%) 2,193 records
	Wave 5	3.70% (0.56, 6.85%) 12 records	3.97% (0.59, 7.36%) 12 records	30.85% (17.77, 43.93%) 74 records	23.59% (19.56, 27.61%) 245 records	38.23% (31.62, 44.85%) 165 records	18.27% (17.16, 19.39%) 1,828 records
	Wave 5.5/ATS	2.34% (0.00, 4.92%) 4 records	2.63% (0.00, 5.55%) 4 records	16.64% (3.16, 30.11%) 7 records	15.66% (9.55, 21.77%) 42 records	18.84% (11.78, 25.91%) 26 records	13.27% (11.31, 15.23%) 316 records
	Wave 6	3.62% (0.11, 7.12%) 10 records	3.79% (0.13, 7.44%) 10 records	26.90% (14.96, 38.84%) 32 records	23.76% (18.28, 29.25%) 122 records	30.31% (21.18, 39.44%) 74 records	16.54% (15.30, 17.79%) 1,060 records
$10,000 to $24,999	Wave 1	14.28% (9.81, 18.74%) 55 records	12.78% (9.03, 16.53%) 48 records	23.68% (19.33, 28.02%) 126 records	28.09% (25.30, 30.88%) 326 records	32.03% (27.31, 36.74%) 174 records	25.28% (24.17, 26.39%) 2,979 records
	Wave 2	9.94% (6.40, 13.47%) 37 records	8.85% (5.42, 12.28%) 32 records	24.64% (18.62, 30.67%) 64 records	25.76% (22.64, 28.88%) 210 records	26.06% (21.67, 30.45%) 125 records	25.50% (24.38, 26.62%) 2,564 records
	Wave 3	9.77% (6.56, 12.98%) 44 records	9.65% (6.33, 12.98%) 41 records	22.03% (15.01, 29.04%) 52 records	22.97% (19.28, 26.66%) 163 records	27.81% (22.50, 33.12%) 124 records	25.51% (24.34, 26.68%) 2,371 records
	Wave 4	7.45% (4.51, 10.39%) 32 records	7.15% (4.28, 10.02%) 29 records	29.25% (21.58, 36.92%) 61 records	26.14% (22.63, 29.65%) 260 records	30.16% (25.27, 35.05%) 136 records	25.36% (24.26, 26.46%) 2,560 records
	Wave 5	7.21% (3.64, 10.78%) 30 records	6.93% (3.26, 10.59%) 27 records	23.15% (14.50, 31.80%) 45 records	24.79% (21.11, 28.47%) 235 records	25.55% (18.87, 32.24%) 116 records	24.94% (23.97, 25.90%) 2,169 records
	Wave 5.5/ATS	4.49% (0.00, 10.66%) 3 records	5.05% (0.00, 11.94%) 3 records	30.95% (12.33, 49.57%) 10 records	25.89% (19.54, 32.25%) 58 records	35.02% (23.87, 46.17%) 33 records	24.58% (22.33, 26.82%) 544 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
$10,000 to $24,999, *cont.*	Wave 6	7.05% (1.88, 12.21%) 16 records	6.76% (1.45, 12.06%) 15 records	16.34% (8.25, 24.44%) 26 records	15.99% (12.60, 19.39%) 100 records	23.74% (17.15, 30.32%) 62 records	20.81% (19.45, 22.16%) 1,300 records
$25,000 to $49,999	Wave 1	14.21% (10.29, 18.13%) 50 records	13.60% (9.70, 17.50%) 46 records	21.84% (17.70, 25.98%) 109 records	20.04% (17.43, 22.65%) 232 records	19.78% (16.05, 23.52%) 108 records	23.39% (22.45, 24.33%) 2,590 records
	Wave 2	18.88% (14.33, 23.44%) 57 records	18.30% (13.71, 22.88%) 53 records	19.72% (12.81, 26.63%) 43 records	16.71% (13.63, 19.79%) 134 records	16.05% (12.21, 19.88%) 70 records	22.52% (21.49, 23.56%) 2,151 records
	Wave 3	11.80% (8.20, 15.41%) 47 records	10.87% (7.12, 14.62%) 42 records	18.14% (10.99, 25.29%) 37 records	18.97% (15.79, 22.14%) 132 records	14.10% (10.45, 17.75%) 59 records	23.20% (22.14, 24.26%) 2,033 records
	Wave 4	15.18% (10.76, 19.60%) 60 records	14.78% (10.26, 19.30%) 57 records	18.35% (11.97, 24.73%) 43 records	21.46% (18.54, 24.37%) 214 records	16.38% (12.43, 20.32%) 86 records	23.29% (22.04, 24.53%) 2,295 records
	Wave 5	18.22% (13.04, 23.40%) 73 records	16.83% (11.67, 21.99%) 66 records	20.09% (12.65, 27.52%) 42 records	21.18% (17.35, 25.02%) 193 records	16.34% (11.49, 21.19%) 67 records	24.01% (22.74, 25.27%) 2,043 records
	Wave 5.5/ATS	14.80% (7.23, 22.38%) 14 records	11.72% (4.41, 19.03%) 11 records	7.46% (0.00, 15.14%) 4 records	22.91% (16.08, 29.73%) 59 records	13.69% (6.00, 21.37%) 18 records	25.32% (23.38, 27.25%) 570 records
	Wave 6	14.61% (9.72, 19.49%) 51 records	13.88% (9.40, 18.35%) 49 records	22.02% (13.67, 30.37%) 29 records	24.29% (19.79, 28.79%) 140 records	24.27% (17.93, 30.62%) 56 records	25.44% (24.22, 26.66%) 1,492 records
$50,000 to $99,999	Wave 1	25.98% (21.31, 30.66%) 87 records	26.63% (21.71, 31.56%) 81 records	13.21% (10.23, 16.19%) 62 records	11.36% (9.42, 13.30%) 131 records	8.27% (5.86, 10.67%) 49 records	16.75% (15.84, 17.67%) 1,784 records
	Wave 2	28.34% (23.65, 33.04%) 91 records	28.40% (23.45, 33.35%) 84 records	13.88% (9.37, 18.39%) 35 records	16.44% (13.50, 19.37%) 113 records	9.91% (7.26, 12.56%) 50 records	18.09% (17.13, 19.04%) 1,581 records
	Wave 3	27.73% (22.65, 32.81%) 100 records	28.34% (23.06, 33.63%) 96 records	12.99% (7.59, 18.39%) 25 records	15.64% (12.57, 18.71%) 88 records	9.25% (6.25, 12.26%) 39 records	18.51% (17.40, 19.63%) 1,493 records
	Wave 4	32.39% (26.16, 38.63%) 114 records	32.47% (26.14, 38.81%) 107 records	16.83% (11.03, 22.63%) 32 records	14.95% (12.14, 17.76%) 140 records	11.00% (7.96, 14.04%) 55 records	19.16% (18.11, 20.21%) 1,692 records
	Wave 5	29.43% (23.90, 34.97%) 129 records	30.81% (24.89, 36.73%) 125 records	13.06% (6.31, 19.80%) 23 records	18.11% (14.57, 21.66%) 139 records	10.68% (7.16, 14.21%) 45 records	19.64% (18.52, 20.77%) 1,533 records
	Wave 5.5/ATS	40.11% (26.32, 53.91%) 31 records	40.02% (24.54, 55.50%) 27 records	22.95% (5.74, 40.17%) 7 records	21.33% (15.00, 27.66%) 47 records	13.83% (6.88, 20.78%) 17 records	22.34% (20.28, 24.39%) 486 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
$50,000 to $99,999, *cont.*	Wave 6	40.26% (30.94, 49.58%) 98 records	41.17% (31.68, 50.66%) 95 records	16.99% (8.52, 25.45%) 17 records	20.86% (16.49, 25.23%) 100 records	8.63% (4.65, 12.62%) 23 records	22.23% (20.88, 23.58%) 1,184 records
$100,000 or more	Wave 1	30.58% (24.89, 36.27%) 88 records	31.65% (25.74, 37.56%) 84 records	7.44% (4.66, 10.23%) 32 records	5.39% (3.84, 6.94%) 58 records	4.33% (2.30, 6.36%) 21 records	6.87% (6.20, 7.55%) 690 records
	Wave 2	34.31% (28.88, 39.75%) 98 records	35.90% (30.38, 41.41%) 96 records	9.75% (5.20, 14.30%) 17 records	8.17% (5.87, 10.47%) 55 records	3.50% (1.71, 5.30%) 17 records	6.91% (6.20, 7.63%) 584 records
	Wave 3	40.44% (34.07, 46.80%) 120 records	41.28% (34.68, 47.89%) 115 records	10.57% (6.03, 15.10%) 17 records	8.90% (6.13, 11.67%) 47 records	3.84% (1.81, 5.88%) 16 records	7.23% (6.38, 8.09%) 556 records
	Wave 4	37.05% (30.66, 43.44%) 116 records	37.96% (31.40, 44.52%) 113 records	8.75% (4.10, 13.41%) 16 records	7.62% (5.34, 9.91%) 65 records	4.24% (1.76, 6.71%) 21 records	7.67% (6.92, 8.42%) 680 records
	Wave 5	38.76% (31.82, 45.69%) 113 records	38.59% (31.18, 45.99%) 106 records	10.08% (4.82, 15.35%) 21 records	9.41% (6.32, 12.51%) 64 records	3.09% (1.53, 4.65%) 18 records	8.16% (7.26, 9.05%) 602 records
	Wave 5.5/ATS	38.01% (26.34, 49.68%) 32 records	40.32% (27.56, 53.07%) 30 records	19.04% (3.68, 34.41%) 6 records	11.95% (7.09, 16.82%) 25 records	7.97% (2.24, 13.70%) 8 records	10.60% (8.84, 12.36%) 252 records
	Wave 6	32.29% (24.02, 40.56%) 102 records	32.13% (23.66, 40.60%) 96 records	12.04% (5.47, 18.61%) 14 records	10.16% (6.65, 13.66%) 45 records	5.90% (2.33, 9.47%) 15 records	10.45% (9.29, 11.61%) 572 records
Missing	Wave 1	6.91% (3.95, 9.87%) 22 records	7.21% (4.04, 10.39%) 20 records	8.17% (5.59, 10.76%) 41 records	6.79% (4.90, 8.68%) 81 records	9.20% (6.20, 12.21%) 47 records	8.51% (7.79, 9.22%) 948 records
	Wave 2	3.99% (2.38, 5.60%) 20 records	3.99% (2.30, 5.67%) 18 records	6.24% (2.51, 9.97%) 13 records	4.69% (2.97, 6.41%) 37 records	8.04% (4.57, 11.50%) 35 records	6.99% (6.35, 7.63%) 646 records
	Wave 3	4.09% (1.99, 6.18%) 17 records	4.10% (1.85, 6.36%) 16 records	6.25% (2.83, 9.68%) 16 records	6.74% (4.27, 9.21%) 50 records	9.97% (4.77, 15.16%) 29 records	5.71% (5.04, 6.39%) 519 records
	Wave 4	2.81% (1.02, 4.60%) 11 records	2.82% (0.93, 4.71%) 10 records	2.77% (0.49, 5.04%) 8 records	4.41% (3.04, 5.78%) 51 records	6.54% (3.51, 9.57%) 25 records	5.08% (4.51, 5.65%) 495 records
	Wave 5	2.67% (0.00, 5.86%) 6 records	2.87% (0.00, 6.28%) 6 records	2.77% (0.48, 5.06%) 7 records	2.91% (1.60, 4.23%) 42 records	6.10% (3.65, 8.55%) 29 records	4.98% (4.48, 5.48%) 415 records
	Wave 5.5/ATS	0.25% (0.00, 0.73%) 1 records	0.28% (0.00, 0.82%) 1 records	2.95% (0.00, 6.84%) 3 records	2.26% (0.46, 4.06%) 9 records	10.65% (2.55, 18.75%) 10 records	3.90% (2.82, 4.98%) 85 records

Table C-3. *continued.* Demographic Characteristics of Adults, Aged 18 Years and Older, Current Smokers, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Missing HHI, cont.	Wave 6	2.18% (0.36, 4.00%) 8 records	2.28% (0.38, 4.19%) 8 records	5.71% (1.05, 10.37%) 6 records	4.94% (2.92, 6.96%) 28 records	7.14% (3.34, 10.94%) 21 records	4.54% (3.88, 5.20%) 287 records

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Frequency and Intensity of Tobacco Use, Wave 1 to Wave 6 (Figure 4 and 5 plotted values)

Table C- 4. Frequency and Intensity of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6

Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
	Overall	Unflavored	Traditional	Cigarillos	Filtered	
Now smoke product every day (%)						
Wave 1	5.62% (3.21, 8.04%) 21 records	5.87% (3.29, 8.45%) 20 records	24.85% (21.13, 28.57%) 119 records	21.99% (19.77, 24.22%) 259 records	37.33% (32.00, 42.65%) 193 records	79.54% (78.51, 80.56%) 9,021 records
Wave 2	6.36% (3.02, 9.70%) 21 records	6.34% (2.90, 9.78%) 19 records	15.92% (10.74, 21.11%) 43 records	15.57% (12.97, 18.16%) 122 records	37.41% (32.87, 41.94%) 164 records	75.98% (74.70, 77.26%) 7,459 records
Wave 3	3.12% (1.47, 4.77%) 15 records	2.87% (1.24, 4.49%) 13 records	20.28% (13.52, 27.05%) 46 records	20.68% (16.99, 24.38%) 131 records	40.87% (33.89, 47.85%) 159 records	77.04% (75.92, 78.16%) 7,014 records
Wave 4	5.03% (0.93, 9.13%) 14 records	5.18% (0.81, 9.54%) 13 records	24.51% (16.00, 33.01%) 47 records	19.12% (16.30, 21.94%) 197 records	39.64% (33.70, 45.57%) 181 records	76.40% (75.26, 77.55%) 7,582 records
Wave 5	5.77% (0.78, 10.76%) 17 records	6.19% (0.86, 11.51%) 17 records	16.83% (10.38, 23.28%) 41 records	22.74% (19.37, 26.10%) 209 records	42.14% (36.85, 47.44%) 175 records	75.49% (74.13, 76.85%) 6,457 records
Wave 5.5/ATS	1.58% (0.00, 4.68%) 1 records	1.78% (0.00, 5.24%) 1 records	9.81% (0.00, 22.27%) 3 records	20.99% (14.51, 27.48%) 48 records	43.24% (31.19, 55.29%) 48 records	76.67% (74.78, 78.56%) 1,635 records
Wave 6	6.19% (1.61, 10.77%) 14 records	6.48% (1.70, 11.26%) 14 records	20.22% (8.74, 31.71%) 22 records	27.62% (22.18, 33.07%) 137 records	36.94% (28.79, 45.09%) 94 records	78.47% (77.22, 79.73%) 4,557 records
Days smoked in past 30 days - median (IQR)						
Wave 1	2.00 (0.00, 5.00) 340 records	2.00 (0.00, 5.00) 314 records	10.00 (2.00, 30.00) 503 records	8.00 (2.00, 30.00) 1,176 records	15.00 (1.00, 30.00) 543 records	30.00 (30.00, 30.00) 11,370 records
Wave 2	2.00 (0.00, 4.00) 322 records	2.00 (0.00, 4.00) 301 records	3.00 (1.00, 15.00) 250 records	5.00 (1.00, 17.00) 788 records	15.00 (2.00, 30.00) 472 records	30.00 (30.00, 30.00) 9,683 records
Wave 3	1.00 (0.00, 4.00) 356 records	1.00 (0.00, 3.00) 335 records	5.00 (1.00, 25.00) 222 records	5.00 (1.00, 23.00) 680 records	15.00 (2.00, 30.00) 420 records	30.00 (30.00, 30.00) 9,001 records
Wave 4	1.00 (0.00, 5.00) 357 records	1.00 (0.00, 4.00) 338 records	5.00 (1.00, 30.00) 217 records	5.00 (1.00, 25.00) 986 records	20.00 (1.00, 30.00) 486 records	30.00 (30.00, 30.00) 9,908 records
Wave 5	1.00 (0.00, 4.00) 363 records	1.00 (0.00, 4.00) 342 records	4.00 (1.00, 14.00) 212 records	5.00 (1.00, 30.00) 914 records	20.00 (2.00, 30.00) 437 records	30.00 (30.00, 30.00) 8,582 records

Table C-4 *continued.* Frequency and Intensity of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6

Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
Wave 5.5/ATS	0.00 (0.00, 3.00) 84 records	0.00 (0.00, 3.00) 75 records	3.00 (1.00, 20.00) 37 records	5.00 (1.00, 30.00) 240 records	30.00 (5.00, 30.00) 111 records	30.00 (30.00, 30.00) 2,248 records
Wave 6	2.00 (1.00, 5.00) 285 records	2.00 (1.00, 5.00) 273 records	4.00 (1.00, 25.00) 124 records	6.00 (1.00, 30.00) 533 records	8.00 (2.00, 30.00) 250 records	30.00 (30.00, 30.00) 5,889 records
Number of cigars or cigarettes per day on days smoked - median (IQR)						
Wave 1	1.00 (1.00, 1.00) 220 records	1.00 (1.00, 1.00) 203 records	2.00 (1.00, 4.00) 386 records	2.00 (1.00, 4.00) 848 records	8.00 (3.00, 15.00) 400 records	12.00 (6.00, 20.00) 11,203 records
Wave 2	1.00 (1.00, 1.00) 198 records	1.00 (1.00, 1.00) 187 records	2.00 (1.00, 3.00) 152 records	2.00 (1.00, 3.00) 516 records	5.00 (2.00, 10.00) 345 records	10.00 (5.00, 20.00) 9,541 records
Wave 3	1.00 (1.00, 1.00) 197 records	1.00 (1.00, 1.00) 181 records	2.00 (1.00, 3.00) 141 records	2.00 (1.00, 3.00) 456 records	5.00 (2.00, 10.00) 317 records	10.00 (5.00, 20.00) 8,890 records
Wave 4	1.00 (1.00, 1.00) 224 records	1.00 (1.00, 1.00) 209 records	1.00 (1.00, 3.00) 180 records	2.00 (1.00, 3.00) 830 records	4.00 (1.00, 12.00) 402 records	10.00 (5.00, 20.00) 9,804 records
Wave 5	1.00 (0.50, 1.00) 239 records	1.00 (0.50, 1.00) 229 records	1.00 (1.00, 3.00) 170 records	2.00 (1.00, 3.00) 765 records	5.00 (2.00, 10.00) 375 records	10.00 (5.00, 20.00) 8,447 records
Wave 5.5/ATS	1.00 (1.00, 1.00) 48 records	1.00 (1.00, 1.00) 44 records	1.00 (1.00, 3.00) 32 records	2.00 (1.00, 3.00) 202 records	4.00 (2.00, 10.00) 98 records	10.00 (5.00, 20.00) 2,206 records
Wave 6	1.00 (1.00, 1.00) 211 records	1.00 (1.00, 1.00) 203 records	1.00 (1.00, 2.00) 101 records	2.00 (1.00, 3.00) 443 records	4.00 (1.00, 10.00) 201 records	10.00 (5.00, 20.00) 5,810 records
Number of cigars or cigarettes per in past 30 days - median (IQR)						
Wave 1	0.13 (0.07, 0.33) 220 records	0.13 (0.07, 0.33) 203 records	1.00 (0.23, 3.00) 384 records	1.00 (0.20, 3.00) 842 records	5.00 (1.00, 13.00) 395 records	12.00 (6.00, 20.00) 11,177 records
Wave 2	0.10 (0.07, 0.27) 198 records	0.10 (0.07, 0.27) 187 records	0.33 (0.10, 2.00) 152 records	0.50 (0.13, 2.00) 516 records	4.00 (0.50, 10.00) 344 records	10.00 (5.00, 20.00) 9,541 records
Wave 3	0.10 (0.03, 0.23) 197 records	0.07 (0.05, 0.23) 181 records	0.60 (0.13, 2.00) 141 records	0.50 (0.17, 2.00) 456 records	3.33 (0.33, 10.00) 315 records	10.00 (5.00, 20.00) 8,884 records
Wave 4	0.10 (0.03, 0.33) 224 records	0.08 (0.03, 0.27) 209 records	0.50 (0.08, 1.50) 179 records	0.50 (0.08, 2.00) 826 records	3.00 (0.33, 10.00) 402 records	10.00 (4.67, 20.00) 9,798 records

Table C-4 *continued.* Frequency and Intensity of Tobacco Use by Cigar Type and Cigarettes, Wave 1 to Wave 6

Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
Wave 5	0.07 (0.03, 0.17) 239 records	0.07 (0.03, 0.20) 229 records	0.27 (0.10, 1.00) 170 records	0.33 (0.12, 2.00) 763 records	3.33 (0.33, 10.00) 374 records	10.00 (5.00, 20.00) 8,442 records
Wave 5.5/ATS	0.13 (0.07, 0.33) 47 records	0.10 (0.03, 0.33) 43 records	0.13 (0.10, 2.00) 32 records	0.40 (0.10, 2.00) 202 records	3.00 (0.50, 10.00) 97 records	10.00 (5.00, 20.00) 2,201 records
Wave 6	0.10 (0.03, 0.27) 211 records	0.10 (0.03, 0.27) 203 records	0.20 (0.07, 1.00) 101 records	0.50 (0.10, 2.00) 441 records	1.33 (0.20, 7.00) 200 records	10.00 (5.00, 20.00) 5,806 records

Initiation, Age at First Regular Tobacco Use, Wave 1 to Wave 6 (Figure 6 plotted values)

Table C- 5. Initiation, Age at First Regular Use by Cigar Type and Cigarettes, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
Age at first regular use (%)							
Less than 18 years old	Wave 1	11.96% (8.38, 15.53%) 51 records	12.18% (8.32, 16.05%) 47 records	27.67% (24.27, 31.07%) 153 records	33.10% (30.23, 35.98%) 442 records	18.32% (14.38, 22.27%) 108 records	53.53% (52.55, 54.51%) 5,916 records
	Wave 2	10.05% (6.56, 13.54%) 34 records	9.12% (5.32, 12.93%) 29 records	28.22% (20.78, 35.66%) 50 records	29.92% (25.60, 34.23%) 180 records	18.59% (12.53, 24.66%) 55 records	55.00% (53.91, 56.10%) 4,826 records
	Wave 3	13.69% (5.17, 22.21%) 30 records	14.06% (4.87, 23.25%) 28 records	23.62% (14.93, 32.30%) 36 records	27.09% (22.27, 31.91%) 116 records	13.82% (7.21, 20.43%) 33 records	54.85% (53.55, 56.14%) 4,160 records
	Wave 4	10.07% (6.23, 13.91%) 29 records	9.67% (5.63, 13.70%) 27 records	26.20% (17.36, 35.05%) 38 records	30.68% (26.26, 35.10%) 196 records	17.31% (11.13, 23.49%) 49 records	54.91% (53.70, 56.13%) 4,475 records
	Wave 5	10.65% (6.23, 15.07%) 27 records	9.75% (4.81, 14.69%) 23 records	20.29% (10.35, 30.24%) 26 records	29.93% (24.55, 35.31%) 132 records	22.71% (13.67, 31.75%) 40 records	56.20% (54.59, 57.82%) 3,563 records
	Wave 5.5/ATS	11.02% (1.51, 20.52%) 7 records	4.02% (0.00, 8.97%) 4 records	36.79% (6.40, 67.17%) 7 records	17.32% (8.37, 26.28%) 24 records	19.35% (0.83, 37.87%) 5 records	57.59% (54.31, 60.87%) 972 records
	Wave 6	17.30% (5.28, 29.31%) 13 records	16.96% (4.72, 29.20%) 12 records	22.58% (4.69, 40.48%) 10 records	24.60% (17.24, 31.96%) 53 records	15.98% (8.42, 23.53%) 16 records	53.60% (50.51, 56.68%) 907 records
18 to 24 years old	Wave 1	34.54% (28.70, 40.39%) 131 records	33.87% (27.83, 39.91%) 120 records	36.04% (31.10, 40.98%) 191 records	42.97% (39.49, 46.45%) 524 records	26.59% (21.26, 31.92%) 168 records	38.93% (38.00, 39.85%) 4,182 records
	Wave 2	30.34% (24.21, 36.48%) 80 records	29.78% (23.61, 35.95%) 75 records	24.73% (17.46, 32.00%) 43 records	40.50% (35.50, 45.51%) 212 records	21.78% (16.49, 27.08%) 73 records	37.67% (36.67, 38.67%) 3,148 records
	Wave 3	30.40% (23.12, 37.67%) 79 records	30.15% (22.64, 37.67%) 74 records	25.33% (15.49, 35.17%) 31 records	40.45% (34.61, 46.28%) 147 records	22.55% (15.17, 29.93%) 52 records	37.91% (36.69, 39.13%) 2,692 records
	Wave 4	33.65% (26.07, 41.23%) 83 records	34.67% (26.57, 42.77%) 80 records	23.80% (14.85, 32.76%) 34 records	41.30% (36.26, 46.33%) 243 records	21.81% (16.24, 27.38%) 66 records	37.64% (36.38, 38.90%) 2,928 records
	Wave 5	29.26% (21.21, 37.32%) 66 records	29.32% (20.51, 38.12%) 61 records	27.72% (16.19, 39.25%) 28 records	43.29% (37.52, 49.06%) 166 records	15.68% (9.58, 21.77%) 30 records	37.09% (35.52, 38.66%) 2,262 records
	Wave 5.5/ATS	17.87% (4.67, 31.07%) 11 records	18.93% (4.70, 33.17%) 10 records	16.39% (0.00, 39.68%) 2 records	48.64% (36.70, 60.58%) 43 records	8.81% (0.00, 18.71%) 5 records	35.46% (32.48, 38.44%) 599 records

Table C- 5 *continued*. Initiation Age at First Regular Use by Cigar Type and Cigarettes, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
	Wave 6	32.01% (21.31, 42.72%) 36 records	31.07% (20.28, 41.86%) 34 records	35.45% (16.43, 54.47%) 15 records	39.10% (29.84, 48.36%) 81 records	25.84% (13.39, 38.29%) 23 records	37.27% (34.46, 40.07%) 616 records
25 to 34 years old	Wave 1	32.66% (26.76, 38.56%) 91 records	33.61% (27.45, 39.77%) 87 records	16.20% (12.12, 20.28%) 74 records	12.99% (10.62, 15.36%) 115 records	14.14% (10.66, 17.63%) 74 records	5.87% (5.36, 6.39%) 581 records
	Wave 2	36.43% (30.02, 42.85%) 73 records	37.19% (30.71, 43.67%) 70 records	14.98% (8.31, 21.65%) 21 records	16.30% (11.64, 20.96%) 60 records	11.60% (7.91, 15.29%) 33 records	5.75% (5.13, 6.38%) 442 records
	Wave 3	30.75% (23.32, 38.18%) 56 records	31.84% (24.01, 39.67%) 54 records	16.37% (8.60, 24.14%) 18 records	17.68% (11.49, 23.87%) 42 records	15.84% (9.34, 22.34%) 31 records	5.51% (4.86, 6.17%) 374 records
	Wave 4	32.41% (25.06, 39.77%) 58 records	33.53% (25.73, 41.32%) 57 records	20.60% (9.05, 32.16%) 15 records	14.36% (10.40, 18.32%) 59 records	16.76% (11.17, 22.35%) 38 records	5.63% (5.01, 6.24%) 408 records
	Wave 5	33.39% (24.14, 42.64%) 45 records	34.14% (23.96, 44.31%) 43 records	26.08% (13.61, 38.55%) 17 records	12.92% (8.13, 17.71%) 34 records	10.10% (4.94, 15.26%) 15 records	5.22% (4.66, 5.78%) 317 records
	Wave 5.5/ATS	35.72% (21.89, 49.54%) 13 records	38.69% (23.82, 53.57%) 13 records	12.22% (0.00, 31.85%) 2 records	21.71% (9.42, 34.00%) 12 records	12.85% (0.00, 28.73%) 4 records	4.98% (3.67, 6.28%) 81 records
	Wave 6	23.72% (11.26, 36.18%) 18 records	24.32% (11.62, 37.02%) 18 records	11.76% (0.00, 25.03%) 5 records	21.63% (10.86, 32.41%) 23 records	27.34% (14.23, 40.46%) 18 records	6.60% (4.85, 8.34%) 90 records
35 to 44 years old	Wave 1	11.42% (7.68, 15.15%) 37 records	11.34% (7.46, 15.21%) 33 records	9.58% (6.64, 12.53%) 41 records	5.15% (3.60, 6.70%) 48 records	14.76% (11.22, 18.31%) 70 records	1.22% (0.96, 1.47%) 123 records
	Wave 2	13.01% (7.93, 18.10%) 28 records	13.36% (8.02, 18.71%) 26 records	14.48% (8.16, 20.79%) 19 records	6.52% (3.92, 9.13%) 27 records	18.95% (12.85, 25.05%) 46 records	1.16% (0.88, 1.45%) 93 records
	Wave 3	13.36% (8.61, 18.10%) 31 records	13.05% (8.15, 17.95%) 28 records	13.68% (6.51, 20.86%) 14 records	7.39% (4.44, 10.34%) 23 records	21.18% (14.67, 27.69%) 38 records	1.31% (1.00, 1.62%) 88 records
	Wave 4	11.04% (6.62, 15.45%) 25 records	10.59% (5.96, 15.21%) 22 records	12.35% (5.60, 19.10%) 15 records	7.64% (4.83, 10.46%) 33 records	18.97% (13.67, 24.28%) 39 records	1.32% (1.03, 1.61%) 95 records
	Wave 5	13.63% (3.88, 23.38%) 18 records	14.23% (3.75, 24.70%) 17 records	9.06% (1.78, 16.33%) 7 records	8.17% (4.45, 11.89%) 24 records	22.65% (15.83, 29.47%) 29 records	1.15% (0.83, 1.46%) 68 records
	Wave 5.5/ATS	22.11% (7.14, 37.09%) 8 records	23.96% (7.76, 40.16%) 8 records	2.65% (0.00, 8.59%) 1 records	6.65% (1.73, 11.58%) 9 records	15.99% (4.77, 27.20%) 6 records	1.48% (0.72, 2.23%) 24 records

Table C- 5 *continued*. Initiation Age at First Regular Use by Cigar Type and Cigarettes, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
35 to 44 years old *cont.*	Wave 6	17.12% (5.85, 28.39%) 13 records	17.55% (6.04, 29.07%) 13 records	3.25% (0.00, 9.45%) 1 records	8.01% (3.03, 13.00%) 12 records	12.32% (3.13, 21.50%) 8 records	1.62% (0.84, 2.39%) 24 records
45 to 54 years old	Wave 1	6.16% (3.21, 9.11%) 18 records	5.46% (2.58, 8.34%) 15 records	6.20% (4.03, 8.37%) 29 records	4.29% (2.92, 5.65%) 40 records	14.86% (11.29, 18.44%) 74 records	0.35% (0.23, 0.48%) 35 records
	Wave 2	6.35% (2.79, 9.90%) 14 records	6.44% (2.67, 10.21%) 13 records	9.71% (4.59, 14.83%) 13 records	5.25% (2.86, 7.65%) 19 records	15.79% (11.09, 20.49%) 43 records	0.29% (0.17, 0.40%) 24 records
	Wave 3	7.08% (3.04, 11.11%) 14 records	5.82% (2.02, 9.62%) 11 records	9.79% (4.12, 15.46%) 11 records	5.94% (2.68, 9.21%) 15 records	13.53% (7.91, 19.14%) 26 records	0.33% (0.18, 0.48%) 24 records
	Wave 4	7.96% (3.39, 12.54%) 14 records	6.96% (2.50, 11.42%) 12 records	9.39% (3.60, 15.19%) 12 records	5.43% (3.25, 7.62%) 22 records	13.71% (8.11, 19.32%) 31 records	0.39% (0.14, 0.64%) 22 records
	Wave 5	7.87% (3.17, 12.57%) 12 records	6.91% (2.40, 11.42%) 10 records	8.13% (1.62, 14.63%) 9 records	5.52% (2.42, 8.62%) 15 records	17.02% (9.71, 24.32%) 24 records	0.32% (0.18, 0.45%) 18 records
	Wave 5.5/ATS	13.29% (0.00, 29.45%) 3 records	14.40% (0.00, 31.59%) 3 records	16.88% (0.00, 39.59%) 2 records	4.94% (0.00, 10.72%) 3 records	19.19% (4.34, 34.05%) 6 records	0.45% (0.10, 0.80%) 7 records
	Wave 6	7.79% (1.54, 14.04%) 7 records	7.99% (1.51, 14.46%) 7 records	14.91% (0.74, 29.08%) 6 records	2.13% (0.00, 5.24%) 3 records	9.38% (2.80, 15.97%) 9 records	0.88% (0.05, 1.71%) 8 records
55 years old or older	Wave 1	3.26% (0.96, 5.57%) 9 records	3.54% (1.05, 6.03%) 9 records	4.30% (2.42, 6.19%) 18 records	1.50% (0.64, 2.36%) 14 records	11.32% (8.14, 14.49%) 54 records	0.10% (0.04, 0.16%) 11 records
	Wave 2	3.82% (1.39, 6.24%) 9 records	4.11% (1.48, 6.74%) 9 records	7.88% (2.52, 13.23%) 9 records	1.50% (0.23, 2.78%) 6 records	13.28% (8.56, 18.00%) 32 records	0.12% (0.05, 0.19%) 11 records
	Wave 3	4.72% (1.35, 8.09%) 9 records	5.09% (1.47, 8.71%) 9 records	11.21% (4.75, 17.67%) 9 records	1.45% (0.00, 3.02%) 4 records	13.08% (6.90, 19.26%) 21 records	0.08% (0.03, 0.14%) 7 records
	Wave 4	4.86% (1.27, 8.45%) 9 records	4.59% (0.98, 8.20%) 8 records	7.65% (2.70, 12.59%) 7 records	0.59% (0.00, 1.19%) 4 records	11.43% (6.34, 16.52%) 26 records	0.10% (0.04, 0.17%) 9 records
	Wave 5	5.20% (1.43, 8.97%) 8 records	5.65% (1.56, 9.75%) 8 records	8.72% (2.23, 15.20%) 6 records	0.17% (0.00, 0.51%) 1 record	11.85% (5.54, 18.16%) 15 records	0.02% (0.00, 0.05%) 2 records
	Wave 5.5/ATS	*No available records*	*No available records*	15.08% (0.00, 34.10%) 2 records	0.73% (0.00, 2.17%) 1 records	23.82% (5.49, 42.14%) 6 records	0.04% (0.00, 0.13%) 1 records

Table C- 5 *continued*. Initiation Age at First Regular Use by Cigar Type and Cigarettes, Wave 1 to Wave 6

Value	Survey Wave	Premium Cigars		Non-Premium Cigars			Cigarettes
		Overall	Unflavored	Traditional	Cigarillos	Filtered	
55 years old or older, *cont.*	Wave 6	2.06% (0.00, 6.27%) 1 records	2.11% (0.00, 6.44%) 1 records	12.05% (0.00, 25.65%) 3 records	4.52% (0.00, 9.19%) 4 records	9.14% (1.05, 17.23%) 6 records	0.04% (0.00, 0.13%) 1 records

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Dual Use of Cigars and Cigarettes, Wave 1 to Wave 6 (Figure 7 plotted values)

Table C- 6. Dual Use of Cigars and Cigarettes, Waves 1 to Wave 6

Survey Wave	Premium Cigars		Non-Premium Cigars		
	Overall	Unflavored	Traditional	Cigarillos	Filtered
Current Cigarette Smoker (%)					
Wave 1	31.16% (26.52, 35.79%) 117 records	30.07% (25.01, 35.12%) 106 records	59.92% (55.10, 64.74%) 311 records	57.93% (54.42, 61.44%) 694 records	65.99% (61.34, 70.64%) 370 records
Wave 2	30.69% (24.70, 36.68%) 102 records	29.41% (23.40, 35.41%) 92 records	56.58% (48.72, 64.43%) 152 records	61.07% (57.21, 64.93%) 489 records	73.15% (68.93, 77.37%) 342 records
Wave 3	25.82% (20.61, 31.02%) 108 records	26.03% (20.79, 31.27%) 102 records	49.15% (41.68, 56.62%) 128 records	56.01% (51.63, 60.40%) 394 records	69.85% (64.42, 75.27%) 294 records
Wave 4	22.73% (17.67, 27.79%) 93 records	22.91% (17.72, 28.10%) 87 records	50.13% (41.93, 58.34%) 115 records	60.25% (56.45, 64.06%) 583 records	70.50% (64.80, 76.20%) 339 records
Wave 5	19.14% (14.18, 24.11%) 90 records	19.14% (13.90, 24.38%) 84 records	56.50% (48.02, 64.97%) 128 records	54.79% (50.16, 59.41%) 502 records	72.93% (67.41, 78.44%) 307 records
Wave 5.5/ATS	23.45% (13.70, 33.19%) 22 records	21.64% (11.64, 31.64%) 19 records	53.04% (33.07, 73.02%) 20 records	55.43% (47.40, 63.46%) 133 records	62.86% (53.34, 72.37%) 68 records
Wave 6	17.14% (11.95, 22.32%) 55 records	16.67% (11.21, 22.13%) 51 records	61.87% (50.42, 73.32%) 73 records	52.16% (47.06, 57.27%) 257 records	63.09% (54.36, 71.83%) 145 records
Former Cigarette Smoker (%)					
Wave 1	26.64% (21.10, 32.17%) 78 records	28.03% (22.15, 33.92%) 75 records	15.58% (11.91, 19.24%) 68 records	10.58% (8.44, 12.72%) 103 records	10.61% (7.52, 13.71%) 51 records
Wave 2	31.64% (25.39, 37.88%) 92 records	33.72% (27.07, 40.37%) 91 records	16.56% (11.55, 21.57%) 35 records	15.84% (13.08, 18.61%) 100 records	9.34% (6.20, 12.48%) 43 records
Wave 3	40.70% (32.72, 48.67%) 114 records	40.88% (32.52, 49.24%) 109 records	28.24% (18.91, 37.58%) 48 records	19.39% (16.09, 22.68%) 98 records	10.93% (8.00, 13.86%) 43 records
Wave 4	39.81% (32.87, 46.75%) 110 records	40.31% (32.95, 47.66%) 106 records	25.08% (18.60, 31.55%) 46 records	15.47% (12.68, 18.25%) 131 records	12.49% (8.50, 16.48%) 56 records

Table C- 6 *continued*. Dual Use of Cigars and Cigarettes, Waves 1 to Wave 6

Survey Wave	Premium Cigars		Non-Premium Cigars		
	Overall	Unflavored	Traditional	Cigarillos	Filtered
Wave 5	40.90% (32.69, 49.10%) 115 records	41.27% (32.56, 49.98%) 109 records	18.73% (11.35, 26.11%) 35 records	19.18% (15.35, 23.00%) 145 records	11.84% (8.52, 15.15%) 54 records
Wave 5.5/ATS	50.26% (35.61, 64.92%) 36 records	54.38% (38.93, 69.83%) 34 records	40.08% (17.62, 62.53%) 11 records	26.54% (18.86, 34.23%) 48 records	28.94% (19.12, 38.76%) 28 records
Wave 6	42.61% (33.84, 51.39%) 106 records	43.54% (34.30, 52.77%) 102 records	25.42% (15.40, 35.44%) 32 records	25.37% (21.06, 29.69%) 123 records	21.84% (15.42, 28.26%) 62 records
Never Cigarette Smoker (%)					
Wave 1	42.21% (36.97, 47.44%) 145 records	41.90% (36.33, 47.47%) 133 records	24.50% (20.54, 28.46%) 127 records	31.41% (28.25, 34.57%) 386 records	23.38% (19.00, 27.76%) 129 records
Wave 2	37.31% (31.72, 42.90%) 125 records	36.50% (30.52, 42.48%) 115 records	25.76% (18.83, 32.68%) 59 records	22.79% (19.59, 25.98%) 195 records	17.40% (13.57, 21.23%) 87 records
Wave 3	30.67% (23.78, 37.57%) 101 records	30.37% (22.80, 37.94%) 94 records	18.25% (11.33, 25.17%) 33 records	21.04% (17.51, 24.57%) 153 records	18.09% (12.27, 23.92%) 75 records
Wave 4	35.01% (28.39, 41.64%) 124 records	34.39% (27.33, 41.45%) 117 records	20.45% (13.25, 27.65%) 43 records	22.69% (19.82, 25.56%) 250 records	16.28% (11.60, 20.95%) 83 records
Wave 5	38.08% (30.08, 46.08%) 135 records	37.67% (29.30, 46.04%) 127 records	22.86% (15.17, 30.55%) 42 records	24.36% (20.86, 27.86%) 244 records	15.03% (9.99, 20.07%) 75 records
Wave 5.5/ATS	25.25% (13.98, 36.51%) 24 records	22.89% (11.24, 34.55%) 20 records	6.25% (0.00, 14.41%) 5 records	15.60% (10.11, 21.09%) 50 records	7.59% (2.08, 13.10%) 13 records
Wave 6	37.35% (27.39, 47.31%) 92 records	36.81% (26.31, 47.31%) 88 records	9.30% (2.10, 16.51%) 14 records	20.20% (15.98, 24.41%) 131 records	12.87% (6.45, 19.28%) 35 records
Now smoke cigarettes every day (%)					
Wave 1	28.98% (24.09, 33.87%) 99 records	27.79% (22.46, 33.11%) 90 records	57.53% (52.05, 63.02%) 281 records	52.34% (49.29, 55.39%) 585 records	66.41% (61.75, 71.07%) 358 records

Table C- 6 *continued*. Dual Use of Cigars and Cigarettes, Waves 1 to Wave 6

Survey Wave	Premium Cigars		Non-Premium Cigars		
	Overall	Unflavored	Traditional	Cigarillos	Filtered
Wave 2	38.32% (29.91, 46.73%) 63 records	36.58% (28.22, 44.95%) 56 records	61.56% (52.84, 70.29%) 123 records	56.47% (51.94, 61.00%) 360 records	64.14% (59.30, 68.98%) 283 records
Wave 3	41.02% (32.27, 49.77%) 71 records	39.84% (31.17, 48.52%) 66 records	61.77% (52.14, 71.41%) 102 records	53.98% (49.05, 58.91%) 285 records	68.64% (61.99, 75.28%) 248 records
Wave 4	46.34% (38.46, 54.23%) 70 records	47.29% (38.82, 55.77%) 67 records	67.33% (57.35, 77.31%) 101 records	58.71% (53.96, 63.47%) 439 records	65.98% (60.80, 71.15%) 275 records
Wave 5	31.50% (20.77, 42.22%) 47 records	31.86% (20.45, 43.27%) 43 records	65.30% (55.14, 75.47%) 99 records	57.00% (51.77, 62.22%) 357 records	70.52% (63.69, 77.34%) 256 records
Wave 5.5/ATS	43.35% (20.25, 66.44%) 13 records	35.09% (11.70, 58.48%) 10 records	70.30% (47.31, 93.28%) 17 records	54.91% (44.76, 65.07%) 91 records	61.20% (47.72, 74.68%) 47 records
Wave 6	28.28% (16.83, 39.73%) 30 records	28.88% (16.38, 41.39%) 28 records	66.58% (53.23, 79.93%) 57 records	59.10% (52.84, 65.36%) 189 records	63.51% (54.68, 72.34%) 107 records
Number of cigarette smoking days in past 30 days - median (IQR)					
Wave 1	0.00 (0.00, 30.00) 319 records	0.00 (0.00, 30.00) 294 records	30.00 (0.00, 30.00) 487 records	30.00 (0.00, 30.00) 1,129 records	30.00 (5.00, 30.00) 539 records
Wave 2	10.00 (0.00, 30.00) 168 records	8.00 (0.00, 30.00) 152 records	30.00 (8.00, 30.00) 194 records	30.00 (4.00, 30.00) 647 records	30.00 (9.00, 30.00) 436 records
Wave 3	8.00 (0.00, 30.00) 161 records	7.00 (0.00, 30.00) 154 records	30.00 (5.00, 30.00) 156 records	30.00 (2.00, 30.00) 532 records	30.00 (23.00, 30.00) 367 records
Wave 4	20.00 (0.00, 30.00) 154 records	20.00 (0.00, 30.00) 146 records	30.00 (15.00, 30.00) 152 records	30.00 (5.00, 30.00) 781 records	30.00 (10.00, 30.00) 426 records
Wave 5	5.00 (0.00, 30.00) 146 records	5.00 (0.00, 30.00) 137 records	30.00 (9.00, 30.00) 157 records	30.00 (5.00, 30.00) 663 records	30.00 (20.00, 30.00) 385 records
Wave 5.5/ATS	15.00 (0.00, 30.00) 31 records	10.00 (0.00, 30.00) 28 records	30.00 (16.00, 30.00) 24 records	30.00 (2.00, 30.00) 173 records	30.00 (5.00, 30.00) 82 records

Table C- 6 *continued*. Dual Use of Cigars and Cigarettes, Waves 1 to Wave 6

Survey Wave	Premium Cigars		Non-Premium Cigars		
	Overall	Unflavored	Traditional	Cigarillos	Filtered
Wave 6	2.00 (0.00, 30.00) 95 records	2.00 (0.00, 30.00) 88 records	30.00 (10.00, 30.00) 84 records	30.00 (5.00, 30.00) 341 records	30.00 (10.00, 30.00) 180 records
Number of cigarettes per day on days smoked - median (IQR)					
Wave 1	0.00 (0.00, 6.00) 306 records	0.00 (0.00, 5.00) 281 records	7.00 (0.00, 20.00) 446 records	5.00 (0.00, 18.00) 1,035 records	10.00 (0.50, 20.00) 482 records
Wave 2	3.00 (0.00, 14.00) 161 records	2.00 (0.00, 14.00) 145 records	6.00 (2.00, 20.00) 175 records	7.00 (2.00, 15.00) 598 records	9.00 (2.00, 20.00) 399 records
Wave 3	5.00 (0.00, 15.00) 149 records	3.00 (0.00, 15.00) 142 records	10.00 (2.00, 20.00) 149 records	6.00 (2.00, 15.00) 497 records	10.00 (3.00, 20.00) 332 records
Wave 4	3.00 (0.00, 10.00) 144 records	3.00 (0.00, 11.00) 136 records	10.00 (3.00, 20.00) 140 records	7.00 (2.00, 20.00) 733 records	10.00 (3.00, 20.00) 393 records
Wave 5	2.00 (0.00, 10.00) 138 records	2.00 (0.00, 10.00) 130 records	11.00 (4.00, 20.00) 143 records	8.00 (2.00, 20.00) 621 records	10.00 (3.00, 20.00) 346 records
Wave 5.5/ATS	5.00 (0.00, 20.00) 30 records	5.00 (0.00, 10.00) 27 records	8.00 (1.00, 15.00) 23 records	6.00 (1.00, 15.00) 164 records	10.00 (1.00, 20.00) 76 records
Wave 6	4.00 (0.00, 10.00) 93 records	5.00 (0.00, 16.00) 86 records	10.00 (4.00, 20.00) 83 records	7.00 (2.00, 15.00) 330 records	10.00 (2.00, 20.00) 176 records
Number of cigarettes per day in past 30 days - median (IQR)					
Wave 1	0.00 (0.00, 6.00) 306 records	0.00 (0.00, 5.00) 281 records	7.00 (0.00, 20.00) 445 records	5.00 (0.00, 15.00) 1,033 records	10.00 (0.33, 20.00) 481 records
Wave 2	1.00 (0.00, 10.00) 161 records	1.00 (0.00, 10.00) 145 records	6.00 (0.50, 20.00) 175 records	6.00 (0.50, 15.00) 598 records	6.00 (0.67, 18.00) 399 records
Wave 3	1.67 (0.00, 15.00) 149 records	1.20 (0.00, 15.00) 142 records	10.00 (0.50, 20.00) 149 records	5.00 (0.20, 15.00) 497 records	10.00 (1.80, 20.00) 331 records

Table C- 6 *continued*. Dual Use of Cigars and Cigarettes, Waves 1 to Wave 6

Survey Wave	Premium Cigars		Non-Premium Cigars		
	Overall	Unflavored	Traditional	Cigarillos	Filtered
Wave 4	1.33 (0.00, 10.00) 144 records	2.00 (0.00, 11.00) 136 records	10.00 (1.17, 20.00) 140 records	6.00 (0.33, 15.00) 733 records	10.00 (1.00, 20.00) 393 records
Wave 5	0.60 (0.00, 9.00) 138 records	0.60 (0.00, 9.00) 130 records	11.00 (1.00, 20.00) 143 records	7.00 (0.53, 20.00) 621 records	9.00 (0.80, 20.00) 346 records
Wave 5.5/ATS	2.67 (0.00, 20.00) 30 records	2.50 (0.00, 10.00) 27 records	7.00 (0.50, 15.00) 23 records	5.33 (0.30, 15.00) 164 records	9.33 (0.50, 20.00) 75 records
Wave 6	2.10 (0.00, 10.00) 93 records	2.10 (0.00, 10.00) 86 records	10.00 (1.00, 20.00) 83 records	6.00 (0.50, 15.00) 329 records	7.00 (1.00, 20.00) 176 records

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Appendix D. Unflavored Premium Cigar Smoking by Cigarette Smoking Status

Table D- 1. Unflavored Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 to Wave 6

Parameter	Survey Wave	Unflavored Premium Cigar & Current Cigarette Smoker	Unflavored Premium Cigar Smoker Only
Now smoke premium cigars every day (%)	Wave 1	5.70 (0.88, 10.52) 6 records	5.94 (2.70, 9.18) 14 records
	Wave 2	4.47 (0.05, 8.88) 5 records	7.12 (2.82, 11.42) 14 records
	Wave 3	4.02 (0.00, 8.12) 5 records	2.48 (0.77, 4.19) 8 records
	Wave 4	2.45 (0.00, 5.86) 2 records	5.99 (0.46, 11.51) 11 records
	Wave 5	3.04 (0.00, 7.53) 3 records	6.93 (0.44, 13.42) 14 records
	Wave 5.5/ATS	*No available data records*	2.27 (0.00, 6.70) 1 records
	Wave 6	7.21 (0.00, 18.52) 4 records	6.33 (1.12, 11.55) 10 records
Number of premium cigar smoking days in past 30 days - median (IQR)	Wave 1	1.00 (0.00, 5.00) 106 records	2.00 (1.00, 5.00) 208 records
	Wave 2	1.00 (0.00, 3.00) 92 records	2.00 (0.00, 5.00) 209 records
	Wave 3	1.00 (0.00, 2.00) 101 records	2.00 (0.00, 4.00) 233 records
	Wave 4	0.00 (0.00, 1.00) 87 records	1.00 (0.00, 5.00) 251 records
	Wave 5	1.00 (0.00, 3.00) 84 records	2.00 (1.00, 5.00) 258 records
	Wave 5.5/ATS	0.00 (0.00, 2.00) 19 records	1.00 (0.00, 3.00) 56 records
	Wave 6	1.00 (0.00, 5.00) 51 records	2.00 (1.00, 5.00) 222 records
Number of premium cigars per day on days smoked - median (IQR)	Wave 1	1.00 (1.00, 2.00) 63 records	1.00 (1.00, 1.00) 140 records
	Wave 2	1.00 (1.00, 1.00) 53 records	1.00 (1.00, 1.00) 134 records
	Wave 3	1.00 (1.00, 1.00) 39 records	1.00 (1.00, 1.00) 141 records
	Wave 4	1.00 (0.50, 1.00) 38 records	1.00 (1.00, 1.00) 171 records
	Wave 5	1.00 (0.50, 1.00) 51 records	1.00 (0.50, 1.00) 178 records
	Wave 5.5/ATS	1.00 (1.00, 1.00) 9 records	1.00 (1.00, 1.00) 35 records

Table D-1 *continued*. Unflavored Premium Cigar Smoking by Cigarette Smoking Status, Wave 1 to Wave 6

Parameter	Survey Wave	Unflavored Premium Cigar & Current Cigarette Smoker	Unflavored Premium Cigar Smoker Only
	Wave 6	1.00 (0.50, 1.00) 34 records	1.00 (1.00, 1.00) 169 records
Number of premium cigars per day in past 30 days - median (IQR)	Wave 1	0.17 (0.07, 0.33) 63 records	0.13 (0.07, 0.33) 140 records
	Wave 2	0.07 (0.03, 0.17) 53 records	0.10 (0.07, 0.33) 134 records
	Wave 3	0.07 (0.03, 0.13) 39 records	0.07 (0.07, 0.27) 141 records
	Wave 4	0.03 (0.02, 0.27) 38 records	0.10 (0.03, 0.27) 171 records
	Wave 5	0.07 (0.03, 0.13) 51 records	0.07 (0.03, 0.25) 178 records
	Wave 5.5/ATS	0.07 (0.07, 0.13) 9 records	0.10 (0.03, 0.33) 34 records
	Wave 6	0.07 (0.03, 0.50) 34 records	0.10 (0.03, 0.27) 169 records

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Appendix E. Traditional Brand and Product Names Reported by PATH Youth and Adult Participants

Traditional Cigar Brand Name Reported by Youth Participants

Table E- 1. Traditional cigar brand name reported per wave by youth participants, Wave 1-Wave 6.

PATH Youth Traditional Cigar Brand Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 4.5	Wave 5	Wave 5.5	Wave 6	Type*
Arturo Fuente	2	1	--	--	1	--	--	--	PREM
BLK	1	--	--	--	--	--	--	--	NON-PREM
Backwoods	7	1	2	3	7	2	2	1	NON-PREM
Black & Mild	--	1	2	10	6	10	1	--	NON-PREM
Cohiba	4	2	1	3	--	--	1	--	PREM
Davidoff	1	1	--	--	--	--	--	--	PREM
Djarum	--	--	--	--	1	--	--	--	NON-PREM
Dutch Masters	3	3	2	1	--	1	--	--	NON-PREM
Game (Garcia y Vega)	--	--	--	--	--	--	--	1	NON-PREM
Garcia y Vega	3	2	--	2	1	--	--	--	NON-PREM
Macanudo	--	2	--	--	1	--	--	--	PREM
Montecristo	1	--	--	--	--	--	--	--	PREM
Prime Time	2	1	--	--	--	--	--	--	NON-PREM
Punch	--	--	--	--	--	--	--	1	PREM
Romeo y Julieta	--	--	--	--	1	--	--	--	PREM
Some other brand	1	--	--	--	--	--	--	--	
Swisher Sweets	11	6	1	2	--	1	1	1	NON-PREM
White Owl	3	5	--	--	1	--	--	--	NON-PREM
Zig Zag	--	--	--	--	--	1	--	--	NON-PREM

PREM = Premium traditional cigar; NON-PREM = Non-premium traditional (or other type) cigar; -- = Not reported in that particular wave

Note: The record counts per wave correspond to the number of youth participant records with that particular brand name reported in the YG1048TC_BRAND field and does not also consider whether or not the participant is identified as a 'not light' traditional cigar smoker (i.e., smoked more than 10 cigars in their lifetime). The participants reporting use of premium cigars in Waves 4-6 were not also identified as 'not light' traditional cigar users, and hence are not captured in the youth premium cigar use estimates presented in Figure 2.

Traditional Cigar Product Name Reported by Youth Participants

Table E- 2. Traditional cigar product name reported per wave by youth participants, Wave 1-Wave 6.

PATH Youth Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 4.5	Wave 5	Wave 5.5	Wave 6	Type
Arturo Fuente Anejo	--	--	--	--	1	--	--	--	PREM
Arturo Fuente Magnum	1	1	--	--	--	--	--	--	PREM
BLK Smooth	1	--	--	--	--	--	--	--	NON-PREM
Backwoods Black 'n Sweet Aromatic	1	--	--	1	--	--	--	--	NON-PREM
Backwoods Honey	--	--	1	1	2	--	1	1	NON-PREM
Backwoods Honey Berry	3	--	--	--	2	1	1	--	NON-PREM
Backwoods Original	1	--	1	1	2	--	--	--	NON-PREM
Backwoods Sweet Aromatic	1	--	--	--	--	--	--	--	NON-PREM
Black & Mild Classic	--	--	--	6	3	2	--	--	NON-PREM
Black & Mild Sweets	--	--	--	2	--	3	--	--	NON-PREM
Black & Mild Wine	--	--	--	2	3	4	--	--	NON-PREM
Cohiba Black	1	1	--	1	--	--	--	--	PREM
Cohiba Cohiba	1	--	1	--	--	--	--	--	PREM
Cohiba Puro Dominicana	2	--	--	--	--	--	--	--	PREM
Davidoff Puro d'Oro	--	1	--	--	--	--	--	--	PREM
Davidoff Series Millennium Blend	1	--	--	--	--	--	--	--	PREM
Dutch Masters Corona Grape	1	--	--	--	--	--	--	--	NON-PREM
Dutch Masters Corona Vanilla	1	--	--	--	--	--	--	--	NON-PREM
Dutch Masters Palma	--	1	1	--	--	--	--	--	NON-PREM
Dutch Masters Palma Chocolate	1	--	--	--	--	--	--	--	NON-PREM

Table E-2 *continued*. Traditional cigar product name reported per wave by youth participants, Wave 1-Wave 6.

PATH Youth Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 4.5	Wave 5	Wave 5.5	Wave 6	Type
Dutch Masters Palma Green Fresh Loc Foil Pouch	--	--	1	--	--	--	--	--	NON-PREM
Dutch Masters Palma Wine Fresh Loc Foil Pouch	--	1	--	--	--	--	--	--	NON-PREM
Dutch Masters President	--	1	--	--	--	--	--	--	NON-PREM
Garcia y Vega Barons	1	--	--	--	--	--	--	--	NON-PREM
Garcia y Vega Blunts	1	1	--	1	1	--	--	--	NON-PREM
Garcia y Vega Crystal	--	--	--	1	--	--	--	--	NON-PREM
Garcia y Vega Delgado Panatela	1	--	--	--	--	--	--	--	NON-PREM
Garcia y Vega Panatela Deluxe	--	1	--	--	--	--	--	--	NON-PREM
Macanudo Duke of York	--	--	--	--	1	--	--	--	PREM
Macanudo Hampton Court	--	1	--	--	--	--	--	--	PREM
Montechristo Classic	1	--	--	--	--	--	--	--	PREM
No data (Brand text response up-coded)	--	1	2	--	--	--	--	--	
PT Tips! Cherry	1	--	--	--	--	--	--	--	FC or Cigarillos per Corey
Prime Time Large Filtered Cigar Cherry	--	1	--	--	--	--	--	--	FC or Cigarillos per Corey
Prime Time Large Filtered Cigar Strawberry	1	--	--	--	--	--	--	--	FC or Cigarillos per Corey
Romeo y Julieta 1875	--	--	--	--	1	--	--	--	PREM
Some other product	4	3	--	3	2	3	2	1	
Swisher Sweets Blunt XL	1	2	--	--	--	--	--	--	NON-PREM
Swisher Sweets Blunt XL Grape	1	1	--	1	--	--	--	1	NON-PREM

Table E-2 *continued*. Traditional cigar product name reported per wave by youth participants, Wave 1-Wave 6.

PATH Youth Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 4.5	Wave 5	Wave 5.5	Wave 6	Type
Swisher Sweets Blunt XL Strawberry	3	1	--	--	--	--	--	--	NON-PREM
Swisher Sweets Blunts	3	2	1	--	--	1	--	--	NON-PREM
Swisher Sweets Filter Tip	1	--	--	1	--	--	--	--	NON-PREM
White Owl Blunt Grape	1	2	--	--	--	--	--	--	NON-PREM
White Owl Blunt Peach	1	--	--	--	--	--	--	--	NON-PREM
White Owl Blunt White Grape	1	2	--	--	--	--	--	--	NON-PREM
White Owl Blunt Xtra Strawberry	--	1	--	--	--	--	--	--	NON-PREM
White Owl Cigarillos	--	--	--	--	1	--	--	--	NON-PREM
Zig-Zag Cigarillos Grape	--	--	--	--	--	1	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)

PREM = Premium traditional cigar; NON-PREM = Non-premium traditional cigar; FC = Filtered Cigar; -- = Not reported in that particular wave

Note: The numbers per wave correspond to the number of youth participant records with that particular brand name reported in the YG1070TC_PRODUCT field and does not also consider whether or not the participant is identified as a 'not light' traditional cigar smoker. The participants reporting use of "Arturo Fuente Anejo" and "Macanudo Duke of York" were not also identified as 'not light' traditional cigar users, and hence are not captured in the youth premium cigar use estimates (Figure 2 and Table A- 1).

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Traditional Cigar Brand Name Reported by Adult Participants

Table E- 3. Traditional cigar brand name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Brand Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
305's	5	1	2	--	--	--	--	FC or Cigarillos per Corey
Acid	27	31	41	50	48	21	36	PREM (Flavored)
Al Capone	4	2	2	2	1	--	4	NON-PREM
Antonio y Cleopatra (AyC)	5	6	6	5	6	1	3	NON-PREM
Arturo Fuente	54	70	63	77	61	25	45	PREM
Ashton	7	7	14	13	8	2	13	PREM
BLK	19	11	12	4	4	--	4	NON-PREM
Backwoods	69	73	77	49	64	8	47	NON-PREM
Black & Mild	73	15	47	237	234	32	154	NON-PREM
BlackStone	8	5	7	1	3	1	1	NON-PREM
CAO	7	3	9	7	7	5	5	PREM
Cheyenne	9	2	4	16	1	1	3	FC or Cigarillos per Corey
Clipper	2	--	--	--	2	--	--	FC or Cigarillos per Corey
Cohiba	72	100	82	97	98	37	73	PREM
Criss Cross	2	--	--	--	--	1	--	FC or Cigarillos per Corey
Crown	--	--	--	--	--	--	1	--
Davidoff	11	15	12	15	10	3	6	PREM
Djarum	12	--	2	2	6	--	5	NON-PREM
Don Tomas	5	7	3	1	--	--	--	PREM
Double Diamond	--	--	2	--	--	1	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Dutch Masters	118	123	86	56	45	7	28	NON-PREM
El Producto	1	--	2	2	1	1	--	NON-PREM
Gambler	1	--	--	--	--	--	--	FC or Cigarillos per Corey
Game (Garcia y Vega)	8	11	13	7	16	3	6	NON-PREM
Garcia y Vega	42	41	34	29	33	10	12	NON-PREM

Table E-3 *continued*. Traditional cigar brand name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Brand Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
General	--	--	1	--	--	--	--	PREM
Goodies	--	--	--	2	1	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Hav-A-Tampa	19	24	12	8	4	1	--	NON-PREM
Havana	--	2	1	3	1	1	2	Unclear per Joyce (web search - 2021DEC13)
King Edward	4	7	4	6	5	3	3	NON-PREM
Kool	--	--	1	--	--	--	--	Cigarette brand per Joyce (web search - 2021DEC13)
La Corona	3	6	2	2	--	1	1	PREM
La Paz	--	--	--	--	3	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Macanudo	63	65	47	27	23	15	24	PREM
Maker's Mark	--	--	--	--	2	1	5	PREM (Flavored)
Marlboro	--	1	2	1	1	--	--	Cigarette brand per Joyce (web search - 2021DEC13)
Miami Suites	1	1	--	--	--	--	--	NON-PREM
Middleton's	2	2	1	--	--	--	1	NON-PREM
Montecristo	23	24	37	37	33	7	21	PREM
Muriels	1	1	--	--	--	2	--	NON-PREM
Mustang	--	1	--	--	--	--	--	Unclear per Joyce (web search - 2021DEC13)
Nat Sherman	--	--	2	3	1	1	--	PREM
Optimo	3	2	--	--	2	1	--	Brand of cigarillos per NERA report
Padron	--	--	--	--	7	5	6	PREM
Pall Mall	--	--	--	--	1	--	--	Cigarette brand per Joyce (web search - 2021DEC13)
Partagas	5	3	7	5	5	3	4	PREM
Perdomo	--	--	--	--	2	4	4	PREM
Phillies	36	35	28	18	13	5	7	NON-PREM

Table E-3 *continued*. Traditional cigar brand name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Brand Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Prime Time	13	8	5	3	3	2	3	FC or Cigarillos per Corey
Punch	8	9	8	13	12	4	10	PREM
RECODE: Bacco	--	--	--	1	--	--	--	Pipe tobacco brand per Joyce (web search - 2021DEC13)
RECODE: Good Times	--	--	--	3	--	--	--	Machine made (therefore non-premium) per Joyce (web search - 2021DEC13)
RECODE: Maker's Mark	--	--	2	4	--	--	--	PREM (Flavored)
RECODE: Padron	--	--	5	5	--	--	--	PREM
RECODE: Perdomo	--	--	5	4	--	--	--	PREM
RECODE: Remington	--	--	1	1	--	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
RECODE: Rocky Patel	--	--	12	11	--	--	--	PREM
RECODE: Smoker's Choice	--	--	2	1	--	--	--	Machine made (therefore non-premium) per Joyce (web search - 2021DEC13)
RECODE: Talon	--	--	1	1	--	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Rocky Patel	--	--	--	--	13	5	9	PREM
Romeo y Julieta	25	40	44	52	44	42	66	PREM
Santa Fe	5	--	1	--	--	--	--	FC or Cigarillos per Corey
Seneca	--	--	1	--	--	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Sir Walter Raleigh	--	--	--	1	--	--	--	Pipe tobacco brand per Joyce (web search - 2021DEC13)
Some other brand	134	142	111	108	120	107	152	--
Supre Sweets	1	1	1	--	3	--	3	NON-PREM
Swisher Sweets	172	141	163	96	96	26	74	NON-PREM
Tampa Nugget	1	2	2	1	1	--	--	NON-PREM

Table E-3 *continued*. Traditional cigar brand name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Brand Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Tampa Sweet	4	5	3	3	3	--	--	NON-PREM
Volcano	--	--	2	--	--	--	--	PREM
White Cat	--	--	--	--	1	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
White Owl	55	38	43	38	29	11	14	NON-PREM
Wildhorse	1	--	--	--	1	--	--	FC or Cigarillos per Corey
Winchester	1	--	--	--	--	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Zig Zag	--	1	3	4	12	--	6	FC or Cigarillos per Joyce (web search - 2021DEC13)

* PREM = Premium traditional cigar; NON-PREM = Non-premium traditional cigar; FC = Filtered Cigar; -- = Not reported in that particular wave

Note: The numbers per wave correspond to the number of adult participant records with that particular brand name reported in the AG1048TC_BRAND field.

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Traditional Cigar Product Name Reported by Adult Participants

Table E- 4. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Acid 1 Black	--	2	2	3	4	--	1	PREM (Flavored)
Acid 1400cc	--	2	1	1	--	1	1	PREM (Flavored)
Acid Blondie	6	10	15	21	11	9	13	PREM (Flavored)
Acid Cold Infusion Tea	--	--	1	1	1	--	--	PREM (Flavored)
Acid Deep Dish	--	--	--	--	1	--	1	PREM (Flavored)
Acid Earthiness	1	1	--	1	--	--	--	PREM (Flavored)
Acid Extra Ordinary Larry	--	--	--	1	--	--	1	PREM (Flavored)
Acid Kong Cameroon	--	1	--	--	--	--	1	PREM (Flavored)
Acid Krush Tins	--	--	--	--	1	--	--	PREM (Flavored)
Acid Kuba Kuba	10	4	12	18	16	6	6	PREM (Flavored)
Acid Nasty	1	1	1	--	1	--	--	PREM (Flavored)
Acid Roam	2	2	3	--	--	--	--	PREM (Flavored)
Acid Ronin	3	2	1	1	--	--	--	PREM (Flavored)
Acid Toast	2	1	1	--	1	--	--	PREM (Flavored)
Acid Wafe	--	1	1	--	--	--	--	PREM (Flavored)
Arturo Fuente Anejo	6	10	8	6	7	3	1	PREM
Arturo Fuente Chateau Fuente	6	8	7	5	4	2	3	PREM
Arturo Fuente Don Carlos	8	10	5	7	8	--	3	PREM
Arturo Fuente Fuente OpusX	4	5	5	4	4	--	4	PREM
Arturo Fuente Gran Reserva	3	10	11	9	9	3	1	PREM
Arturo Fuente Hemingway	10	11	14	21	12	4	8	PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Arturo Fuente Magnum	4	2	3	2	2	--	3	PREM
Ashton Aged Maduro Series	2	3	3	2	1	--	2	PREM
Ashton Cabinet Selection	--	1	3	2	2	--	1	PREM
Ashton Classic Series	1	--	3	3	1	--	2	PREM
Ashton ESG (Estate Sun Grown)	1	1	3	1	1	--	2	PREM
Ashton Heritage Puro Sol	--	--	1	--	--	--	--	PREM
Ashton VSG (Virgin Sun Grown)	--	1	1	3	1	--	1	PREM
AyC Grenadier Natural Dark	2	3	3	2	2	--	1	NON-PREM
AyC Grenadier Natural Dark Minis	--	1	--	--	--	--	1	NON-PREM
AyC Grenadier Natural Light	--	2	2	2	3	--	1	NON-PREM
BLK Cherry	9	4	4	1	1	--	--	NON-PREM
BLK Smooth	5	5	4	2	2	--	1	NON-PREM
Backwoods Black 'n Sweet Aromatic	17	14	13	9	7	--	2	NON-PREM
Backwoods Honey	11	9	13	5	18	3	15	NON-PREM
Backwoods Honey Berry	10	20	25	16	14	1	12	NON-PREM
Backwoods Original	22	17	13	7	14	2	6	NON-PREM
Backwoods Sweet Aromatic	7	9	9	11	8	--	4	NON-PREM
Black & Mild Casino	--	--	--	--	--	--	1	NON-PREM
Black & Mild Classic	--	--	--	88	85	12	58	NON-PREM
Black & Mild Jazz	--	--	--	--	11	--	8	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Black & Mild Sweets	--	--	--	38	59	5	37	NON-PREM
Black & Mild Wine	--	--	1	81	70	9	42	NON-PREM
BlackStone Cherry Tip Cigarillos	--	2	4	1	1	1	1	NON-PREM
BlackStone Wine	6	2	3	--	--	--	--	NON-PREM
BlackStone Wine Tip Cigarillos	--	--	--	--	1	--	--	NON-PREM
CAO Americo	--	--	2	1	--	--	1	PREM
CAO Bella Vanilla	--	--	1	1	--	--	--	PREM (Flavored)
CAO Brazilia	2	1	3	--	1	--	1	PREM
CAO Cherry Bomb	--	--	--	--	1	--	--	PREM (Flavored)
CAO Gold	1	--	--	1	--	--	--	PREM
CAO Gold Maduro	--	--	--	1	--	--	--	PREM
CAO Gold Vintage	--	--	1	--	--	--	--	PREM
CAO La Traviata	--	--	--	1	1	1	--	PREM
CAO MX2	--	1	--	--	--	--	--	PREM
CAO Maduro	2	1	2	--	2	2	--	PREM
CAO Moontrance	1	--	--	1	--	--	1	PREM (Flavored)
CAO Soprano	1	--	--	--	--	--	--	PREM
Cheyenne Classic 100s	--	--	--	3	--	--	--	FC or Cigarillos per Corey
Cheyenne Full Flavor 100s	--	--	--	3	--	--	--	FC or Cigarillos per Corey
Cheyenne Grape 100s	--	--	--	1	--	--	--	FC or Cigarillos per Corey
Cheyenne Menthol 100s	--	--	--	1	--	--	--	FC or Cigarillos per Corey
Cheyenne Menthol Kings	--	--	--	1	--	--	--	FC or Cigarillos per Corey
Cheyenne Peach 100s	--	--	--	1	--	--	--	FC or Cigarillos per Corey

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Cheyenne Wild Cherry 100s	--	--	--	5	--	--	--	FC or Cigarillos per Corey
Cohiba Black	22	24	19	13	8	5	11	PREM
Cohiba Cohiba	20	32	29	32	36	7	17	PREM
Cohiba Puro Dominicana	11	25	15	29	20	7	18	PREM
Cohiba XV	2	7	4	3	3	--	1	PREM
Davidoff Demi-Tasse	--	--	--	--	--	--	1	PREM
Davidoff Puro d'Oro	3	2	1	2	--	--	--	PREM
Davidoff Series Aniversario	2	1	--	2	2	--	--	PREM
Davidoff Series Classic	2	5	3	5	--	--	--	PREM
Davidoff Series Grand Cru	1	--	1	1	2	1	1	PREM
Davidoff Series Mille	1	--	1	2	--	--	--	PREM
Davidoff Series Millennium Blend	--	--	1	--	2	--	--	PREM
Davidoff Series Special	1	3	2	1	1	--	--	PREM
Djarum Black	--	--	--	--	2	--	1	NON-PREM
Djarum Gold Seal Sumatra Cigarillos	--	--	--	--	2	--	--	NON-PREM
Djarum Gold Seal Sumatra Senoritas	--	--	--	--	1	--	--	NON-PREM
Djarum Spice Islands Kretek Cigarillos	--	--	--	--	--	--	2	NON-PREM
Don Tomas Acid	1	--	--	--	--	--	--	PREM (Flavored)
Don Tomas Ashton	--	1	--	--	--	--	--	PREM
Don Tomas Avo XO Maestoso	1	--	--	--	--	--	--	PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Don Tomas CAO Gold Double Corona	--	1	1	--	--	--	--	PREM
Don Tomas Camacho Corojo	--	2	--	--	--	--	--	PREM
Don Tomas Cohiba Churchill	2	1	1	1	--	--	--	PREM
Don Tomas Griffin's No. 300	1	--	--	--	--	--	--	PREM
Don Tomas Rocky Patel Decade Emperor	--	1	--	--	--	--	--	PREM
Dutch Masters Cigarillos Chocolate	--	--	--	--	6	1	1	NON-PREM
Dutch Masters Cigarillos Cognac	--	--	--	--	2	--	3	NON-PREM
Dutch Masters Cigarillos Grape	--	--	--	--	--	--	1	NON-PREM
Dutch Masters Cigarillos Green	--	--	--	--	1	--	--	NON-PREM
Dutch Masters Cigarillos Honey Sports	--	--	--	--	3	--	2	NON-PREM
Dutch Masters Cigarillos Palma	--	--	--	--	1	--	--	NON-PREM
Dutch Masters Cigarillos Strawberry	--	--	--	--	3	--	1	NON-PREM
Dutch Masters Cigarillos Vanilla	--	--	--	--	3	--	1	NON-PREM
Dutch Masters Cigarillos Vanilla Sport	--	--	--	--	--	--	1	NON-PREM
Dutch Masters Cigarillos Wine	--	--	--	--	2	--	--	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Dutch Masters Corona De Luxe	19	22	10	5	--	--	--	NON-PREM
Dutch Masters Corona Grape	28	17	11	7	--	--	1	NON-PREM
Dutch Masters Corona Honey Sports	4	5	6	4	1	--	--	NON-PREM
Dutch Masters Corona Sports	2	3	1	--	--	--	--	NON-PREM
Dutch Masters Corona Strawberry	7	5	3	3	4	--	1	NON-PREM
Dutch Masters Corona Vanilla	17	10	7	3	2	--	--	NON-PREM
Dutch Masters Palma	10	12	12	8	4	1	7	NON-PREM
Dutch Masters Palma Chocolate	6	9	8	4	1	--	--	NON-PREM
Dutch Masters Palma Cognac	4	10	4	4	1	--	--	NON-PREM
Dutch Masters Palma Fresh Loc Foil Pouch	--	1	2	1	--	--	--	NON-PREM
Dutch Masters Palma Green Fresh Loc Foil Pouch	5	1	--	--	--	--	--	NON-PREM
Dutch Masters Palma Wine Fresh Loc Foil Pouch	1	1	2	1	--	--	--	NON-PREM
Dutch Masters Panetela	2	9	4	4	1	--	2	NON-PREM
Dutch Masters President	9	5	5	5	3	2	2	NON-PREM
El Producto Escepcionales	--	--	--	--	1	1	--	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
El Producto Favoritas	--	--	1	1	--	--	--	NON-PREM
El Producto Puritano Finos	1	--	1	--	--	--	--	NON-PREM
Game Blue	--	--	--	--	--	--	2	NON-PREM
Game Dutch Masters Grape	--	--	--	--	--	--	1	NON-PREM
Game Green	--	--	--	--	4	--	1	NON-PREM
Game Natural	--	--	--	--	4	--	2	NON-PREM
Game Palma Green	4	4	5	3	--	--	--	NON-PREM
Game Palma Peach	2	1	--	--	--	--	--	NON-PREM
Game Palma Vanilla	--	1	1	--	--	--	--	NON-PREM
Game Palma White Grape	2	4	2	1	1	--	--	NON-PREM
Game Palma Wine	--	--	1	1	--	--	--	NON-PREM
Game White Grape	--	--	--	--	2	--	--	NON-PREM
Garcia y Vega Barons	3	5	3	--	3	--	1	NON-PREM
Garcia y Vega Blunts	22	15	17	12	7	--	--	NON-PREM
Garcia y Vega Crystal	--	5	--	--	--	--	--	NON-PREM
Garcia y Vega Delgado Panatela	2	3	--	--	1	1	1	NON-PREM
Garcia y Vega Elegante	3	3	2	2	3	--	--	NON-PREM
Garcia y Vega Gallantes	1	2	1	--	1	--	1	NON-PREM
Garcia y Vega Gran Coronoas	1	2	3	5	4	1	2	NON-PREM
Garcia y Vega Gran Premio	--	1	--	--	2	--	1	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Garcia y Vega Panatela Deluxe	--	--	1	1	1	1	--	NON-PREM
Garcia y Vega Presidente	3	3	1	3	4	--	2	NON-PREM
Garcia y Vega Whiff	1	--	--	--	1	1	--	NON-PREM
Goodies Grape	--	--	--	1	--	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Goodies Natural	--	--	--	--	1	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Hav-a-Tampa Jewels Original	8	9	4	3	2	--	--	NON-PREM
Hav-a-Tampa Jewels Sweet	8	9	5	2	2	--	--	NON-PREM
Hav-a-Tampa Jewels Vanilla	3	4	2	1	--	--	--	NON-PREM
King Edward Imperial	--	4	2	5	4	3	1	NON-PREM
King Edward Specials	--	--	1	--	1	--	--	NON-PREM
King Edward Tip Cigarillos	--	--	--	--	--	--	2	NON-PREM
King Edward Wood Tip Original	2	1	--	--	--	--	--	NON-PREM
King Edward Wood Tip Sweet Cherry	1	2	--	--	--	--	--	NON-PREM
King Edward Wood Tip Sweet Vanilla	1	--	--	--	--	--	--	NON-PREM
La Corona Campana (Torpedo)	1	--	--	--	--	--	--	PREM
La Corona Corona Cubana	1	3	1	2	--	--	--	PREM
La Corona Coronita	--	1	--	--	--	--	--	PREM
La Corona Perfecto	--	1	--	--	--	--	1	PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
La Corona Whiffs	--	--	1	--	--	--	--	PREM
La Paz Wilde Cigarros	--	--	--	--	2	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Macanudo Ascots	2	6	5	1	5	--	4	PREM
Macanudo Baron De Rothschild	6	3	1	3	2	2	--	PREM
Macanudo Crystal	5	1	1	--	1	--	1	PREM
Macanudo Diplomat	3	7	4	4	1	2	2	PREM
Macanudo Duke of Devon	--	1	--	1	--	--	--	PREM
Macanudo Duke of Wellington	1	--	1	--	--	--	--	PREM
Macanudo Duke of Windsor	1	--	1	--	--	1	--	PREM
Macanudo Duke of York	1	2	1	--	--	--	--	PREM
Macanudo Gigante	5	2	--	1	--	--	--	PREM
Macanudo Hampton Court	6	8	4	3	--	1	3	PREM
Macanudo Hyde Park	--	1	--	1	2	--	1	PREM
Macanudo Majesty	3	1	1	--	--	--	1	PREM
Macanudo Petit Corona	10	6	2	--	--	--	--	PREM
Macanudo Portofino	5	10	9	5	1	--	--	PREM
Macanudo Prince Phillip	2	3	4	1	--	1	1	PREM
Macanudo Prince of Wales	1	1	1	2	--	--	--	PREM
Miami Suites Honey Berry	--	1	--	--	--	--	--	NON-PREM
Miami Suites Rum	1	--	--	--	--	--	--	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Montechristo 75th Aniversario	1	--	2	1	2	--	1	PREM
Montechristo Cabinet Seleccion	5	--	1	1	1	--	1	PREM
Montechristo Classic	7	9	16	14	12	3	7	PREM
Montechristo Montecristo	1	1	8	7	1	--	1	PREM
Montechristo New York	--	1	--	2	--	--	1	PREM
Montechristo Platinum	4	2	1	2	3	--	--	PREM
Montechristo Reserva Negra	1	1	2	2	2	--	--	PREM
Montechristo White	2	4	5	4	5	2	4	PREM
Muriels Regular	1	1	--	--	--	2	--	NON-PREM
No data (Brand text response up-coded)	125	36	106	61	55	20	37	
Optimo Coronella Original	3	1	--	--	2	1	--	Brand of cigarillos per NERA report
PT Tips! Cherry	--	--	1	--	--	--	--	FC or Cigarillos per Corey
PT Tips! Grape	3	--	1	--	1	1	2	FC or Cigarillos per Corey
PT Tips! Peach	1	--	--	--	--	--	--	FC or Cigarillos per Corey
PT Tips! Watermelon	--	--	--	--	1	1	--	FC or Cigarillos per Corey
Partagas Aristocrat	--	--	--	--	1	--	--	PREM
Partagas Naturales	--	1	1	1	1	--	--	PREM
Partagas No. 1	--	--	--	1	--	--	--	PREM
Partagas No. 10	1	--	1	--	--	--	--	PREM
Partagas No. 2	--	--	--	1	--	--	--	PREM
Partagas No. 4	--	1	1	--	--	--	--	PREM
Partagas No. 6	--	1	--	--	--	--	--	PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Partagas No. 8	1	--	1	1	1	--	--	PREM
Partagas Puritos	1	--	--	--	--	--	--	PREM
Partagas Robusto	2	--	1	1	1	--	--	PREM
Phillies Black Max Chocolate (plastic tip)	6	--	1	--	--	--	--	NON-PREM
Phillies Black Max Grape (plastic tip)	2	2	--	--	--	--	--	NON-PREM
Phillies Black Max Menthol (plastic tip)	--	1	--	1	--	--	--	NON-PREM
Phillies Black Max Mild (birchwood tip)	--	2	1	1	--	--	--	NON-PREM
Phillies Black Max Mild (plastic tip)	2	1	2	--	--	--	--	NON-PREM
Phillies Black Max Peach (plastic tip)	--	--	1	--	--	--	--	NON-PREM
Phillies Black Max Strawberry (plastic tip)	1	--	1	--	--	--	1	NON-PREM
Phillies Black Max Sweet (birchwood tip)	--	--	2	--	--	--	1	NON-PREM
Phillies Black Max Wine (birchwood tip)	--	1	1	--	--	--	--	NON-PREM
Phillies Black Max Wine (plastic tip)	--	1	--	--	--	--	--	NON-PREM
Phillies Blunt	3	5	5	6	3	--	--	NON-PREM
Phillies Blunt Chocolate Aroma	1	--	3	--	2	--	1	NON-PREM
Phillies Blunt Grape	5	3	2	1	1	--	--	NON-PREM
Phillies Blunt Greene de Menthe	1	--	--	--	--	--	--	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Phillies Blunt Peach	1	2	--	--	--	--	--	NON-PREM
Phillies Blunt Strawberry	1	3	--	2	--	--	2	NON-PREM
Phillies Cheroot	--	1	--	--	--	--	--	NON-PREM
Phillies Cigarillos Chocolate	--	--	--	--	--	1	--	NON-PREM
Phillies Cigarillos Regular	--	--	--	--	1	1	--	NON-PREM
Phillies Cigarillos Sour Apple	--	--	--	--	1	--	--	NON-PREM
Phillies Panatela	1	--	--	--	--	--	--	NON-PREM
Phillies Perfecto	--	--	--	1	--	--	--	NON-PREM
Phillies Sweets	2	5	4	2	2	--	--	NON-PREM
Phillies Titan	4	2	2	3	1	1	1	NON-PREM
Prime Time Large Filtered Cigar Blueberry	--	1	--	1	--	--	--	FC or Cigarillos per Corey
Prime Time Large Filtered Cigar Cherry	2	--	1	--	--	--	--	FC or Cigarillos per Corey
Prime Time Large Filtered Cigar Grape	4	3	--	1	--	--	--	FC or Cigarillos per Corey
Prime Time Large Filtered Cigar Peach	1	1	--	--	--	--	--	FC or Cigarillos per Corey
Prime Time Large Filtered Cigar Raspberry	--	1	--	--	--	--	--	FC or Cigarillos per Corey
Prime Time Large Filtered Cigar Strawberry	1	--	--	1	--	--	--	FC or Cigarillos per Corey
Prime Time Large Filtered Cigar Vanilla	1	2	--	--	--	--	--	FC or Cigarillos per Corey
Punch Churchill	3	1	--	1	1	--	1	PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Punch Corona	1	1	1	4	6	--	2	PREM
Punch Coronation	--	1	--	--	--	--	--	PREM
Punch Double Corona	--	--	1	1	1	--	--	PREM
Punch Petit Corona del Punch	--	--	--	1	--	--	--	PREM
Punch Petit Coronation	--	--	1	--	--	--	--	PREM
Punch Petit Punch	--	1	--	--	--	--	1	PREM
Punch Punch	1	2	1	1	1	--	1	PREM
Punch Royal Coronation	2	--	--	--	1	--	--	PREM
Punch Royal Selection No. 11	--	1	--	--	--	--	--	PREM
RECODE: Black & Mild Casino	--	--	--	2	--	--	--	NON-PREM
RECODE: Black & Mild Jazz	--	--	1	14	--	--	--	NON-PREM
RECODE: Game Pineapple	--	--	1	--	--	--	--	NON-PREM
RECODE: Swisher Sweets Mango Cigarillos	--	--	1	--	--	--	--	NON-PREM
RECODE: Swisher Sweets Wild Rush	--	--	--	1	--	--	--	NON-PREM
Romeo y Julieta 1875	5	7	9	12	10	2	10	PREM
Romeo y Julieta Aniversario	1	--	2	2	--	--	4	PREM
Romeo y Julieta Cabinet Seleccion	1	1	1	--	1	2	--	PREM
Romeo y Julieta Edicion Limitada	--	2	1	--	--	3	3	PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Romeo y Julieta Reserva Real	1	3	3	2	3	--	3	PREM
Romeo y Julieta Reserva Real Maduro	--	3	1	4	--	5	--	PREM
Romeo y Julieta Reserve	6	7	7	5	3	--	9	PREM
Romeo y Julieta Reserve Maduro	2	4	1	1	3	4	2	PREM
Romeo y Julieta Romeo Y Julieta	5	5	3	7	7	7	3	PREM
Romeo y Julieta Vintage	--	2	2	4	1	1	--	PREM
Romeo y Julieta Vintage Maduro	--	--	1	2	--	--	--	PREM
Some other product	88	92	107	110	122	76	112	
Supre Sweets Perfectos	1	1	1	--	1	--	2	NON-PREM
Swisher Sweets Blueberry Mini Cigarillos	--	--	--	--	6	1	2	NON-PREM
Swisher Sweets Blunt XL	9	10	8	3	--	--	1	NON-PREM
Swisher Sweets Blunt XL Grape	37	26	20	15	6	--	5	NON-PREM
Swisher Sweets Blunt XL Peach	10	5	11	3	--	--	--	NON-PREM
Swisher Sweets Blunt XL Strawberry	10	5	11	3	3	--	2	NON-PREM
Swisher Sweets Blunts	33	29	41	25	14	1	9	NON-PREM
Swisher Sweets Cherry Tip Cigarillos	--	--	--	--	10	2	7	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Swisher Sweets Chocolate Cigarillos	--	--	--	--	1	2	1	NON-PREM
Swisher Sweets Cigarillos	--	--	1	1	12	3	9	NON-PREM
Swisher Sweets Filter Tip	36	29	30	12	--	--	--	NON-PREM
Swisher Sweets Filter Tip Menthol	1	4	5	2	--	--	--	NON-PREM
Swisher Sweets Filter Tip Silver	1	3	2	--	--	--	--	NON-PREM
Swisher Sweets Grape Mini Cigarillos	--	--	--	--	4	2	3	NON-PREM
Swisher Sweets Grape Tip Cigarillos	--	--	--	--	1	--	4	NON-PREM
Swisher Sweets Mango Cigarillos	--	--	--	--	1	--	1	NON-PREM
Swisher Sweets Mini Cigarillos	--	--	--	--	2	--	1	NON-PREM
Swisher Sweets Outlaws	3	3	6	2	--	--	1	NON-PREM
Swisher Sweets Perfecto	8	8	5	6	6	1	1	NON-PREM
Swisher Sweets Strawberry Cigarillos	--	--	--	--	1	3	1	NON-PREM
Swisher Sweets Strawberry Mini Cigarillos	--	--	--	--	--	1	--	NON-PREM
Swisher Sweets Sweet Mini Tip Cigarillos	--	--	--	--	1	--	--	NON-PREM
Swisher Sweets Tequila Cigarillos	--	--	--	--	1	--	1	NON-PREM
Swisher Sweets Tip Cigarillos	--	--	--	--	1	--	2	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Swisher Sweets White Grape Cigarillos	--	--	--	--	5	--	1	NON-PREM
Swisher Sweets White Grape Mini Cigarillos	--	--	--	--	1	--	--	NON-PREM
Swisher Sweets Wine Cigarillos	--	--	--	--	2	1	1	NON-PREM
Swisher Sweets Wine Mini Cigarillos	--	--	--	--	3	--	--	NON-PREM
Tampa Nugget Panetela	1	--	2	--	--	--	--	NON-PREM
Tampa Nugget Sublime	--	1	--	--	1	--	--	NON-PREM
Tampa Sweet Cheroot	1	1	1	1	1	--	--	NON-PREM
Tampa Sweet Cigarillos	--	--	--	--	1	--	--	NON-PREM
Tampa Sweet Perfecto	3	2	2	2	--	--	--	NON-PREM
White Cat Cigarillos	--	--	--	--	1	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
White Owl Blunt Grape	13	15	6	4	3	1	3	NON-PREM
White Owl Blunt Peach	3	2	11	6	4	--	1	NON-PREM
White Owl Blunt White Grape	19	7	8	8	8	2	1	NON-PREM
White Owl Blunt Xtra Grape	2	1	--	--	--	--	--	NON-PREM
White Owl Blunt Xtra Peach	--	2	--	2	--	--	--	NON-PREM
White Owl Blunt Xtra Strawberry	1	1	2	3	--	--	--	NON-PREM

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
White Owl Blunt Xtra Vanilla	2	--	1	1	--	--	--	NON-PREM
White Owl Blunt Xtra Watermelon	--	--	--	1	--	--	--	NON-PREM
White Owl Blunt Xtra White Grape	--	2	3	--	2	--	--	NON-PREM
White Owl Blunt Xtra Wild Apple	1	--	--	1	--	--	--	NON-PREM
White Owl Blunts	9	--	8	5	--	--	--	NON-PREM
White Owl Cigarillos	--	--	--	--	3	--	--	NON-PREM
White Owl Cigarillos Grape	--	--	--	--	1	--	1	NON-PREM
White Owl Cigarillos Green Sweets	--	1	--	--	--	--	1	NON-PREM
White Owl Cigarillos Peach	--	--	--	--	1	--	--	NON-PREM
White Owl Cigarillos Strawberry	--	--	--	--	1	--	--	NON-PREM
White Owl Cigarillos White Grape	--	--	--	--	1	1	1	NON-PREM
White Owl New Yorker	1	1	--	1	1	1	1	NON-PREM
White Owl Pineapple	--	--	--	--	--	--	1	NON-PREM
White Owl Invincible	--	--	--	1	--	--	--	NON-PREM
Zig-Zag Cigarillos Grape	--	--	--	--	1	--	1	FC or Cigarillos per Joyce (web search - 2021DEC13)
Zig-Zag Cigarillos Mango	--	--	--	--	1	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Zig-Zag Cigarillos Peach	--	--	--	--	3	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Zig-Zag Cigarillos Straight Up	--	--	--	--	1	--	3	FC or Cigarillos per Joyce (web search - 2021DEC13)

Table E- 4 *continued*. Traditional cigar product name reported per wave by adult participants, Wave 1-Wave 6.

PATH Adult Traditional Cigar Product Name	Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 5.5/ATS	Wave 6	Type
Zig-Zag Cigarillos Strawberry	--	--	--	--	3	--	--	FC or Cigarillos per Joyce (web search - 2021DEC13)
Zig-Zag Cigarillos Sweets	--	--	--	--	2	--	2	FC or Cigarillos per Joyce (web search - 2021DEC13)

* PREM = Premium traditional cigar; NON-PREM = Non-premium traditional cigar; FC = Filtered Cigar; -- = Not reported in that particular wave

Note: The numbers per wave correspond to the number of adult participant records with that particular product name reported in the AG1070TC_PRODUCT field.