Appendix 6.4-2: ALCS Analyses of NSDUH Data for Section 6.4 - Effect on Tobacco Use Initiation among Nonusers

1. Statement of Purpose/ Objective: To substantiate NSDUH analyses in section 6.4

2. Source and data set up: NSDUH Public Use File 2002-2015

Data were downloaded from the NSDUH website, https://www.icpsr.umich.edu/icpsrweb/ICPSR/series/64

Analysis weight (analwt_c) was used to account for differential selection probabilities, nonresponse patterns, and post-stratification factors. Variance estimation was adjusted for cluster replicates (verep) and stratum (vestr). Data were set up using the following command in Stata 15.0:

svyset verep [pweight=analwt_c], stra(vestr) single(centered)

3. Summary of outcomes assessed

We conducted analysis for five outcomes using NSDUH public use files for section 6.4. All analyses were conducted using the NSDUH 2015 data, except for analyses for the last outcome "smokeless tobacco brand used most often during the past 30 days" which was conducted using 2002-2014 data. These outcomes are listed in the table below along with the survey questions and the variables used to derive the outcome variables.

	Outcome Measure		Corresponding Variables & Questions
	Outcome Measure	Variable	Question
1	Ever use of Smokeless Tobacco	SMKLSSFLAG	NSDUH derived variable, mainly based on the question "Have you ever used snuff, even once?"
2	Past 30-day use of Smokeless Tobacco	SMKLSSMON	NSDUH derived variable, mainly based on the question "Now think about the past 30 days, that is from [DATEFILL] up to and including today. During the past 30 days, have you used snuff, even once?"
3	Frequent use of Smokeless Tobacco	SMKLSS30N	(Note: Frequent use was defined as at least 20 days of smokeless tobacco use during the past 30 days.) During the past 30 days, that is, since [DATEFILL], on how many days did you use snuff?
4	Percent reporting Past 30- day use of alcohol, marijuana, and tobacco products	ALCMON MRJMON CIGMON CGRMON SMKLSSMON	Similar variables to Outcome 2 (smklssmon) for each drug, including alcohol, marijuana, cigarettes, and cigars.
5	Smokeless tobacco brand used most often during the past 30 days	SLT30BR2	During the past 30 days, what brand of snuff did you use most often?

4. User Groups

This section describes the definition of the user groups and variables used to identify these groups, as presented in section 6.4.

User Groups	Definitions	Variables / Syntax
Youth (12-17 year olds)	Adolescents 12-17 years of age at the time of	AGE2>=1 & AGE2<=6
	assessment	
Young Adults (18-25 year	Young adults 18-25 years of age at the time of	AGE2>=7 & AGE2<=12
olds)	assessment	
Youth (12-17 year olds)	Adolescents 12-17 years of age at the time of	AGE2>=1 & AGE2<=6 &
reporting past 30-day use	assessment who drank alcohol during the past	ALCMON ==1
of alcohol	30 days	
Youth (12-17 year olds)	Adolescents 12-17 years of age at the time of	AGE2>=1 & AGE2<=6 &
reporting past 30-day use	assessment who used marijuana during the past	MRJMON ==1
of marijuana	30 days	
Youth (12-17 year olds)	Adolescents 12-17 years of age at the time of	AGE2>=1 & AGE2<=6 &
reporting past 30-day use	assessment who smoked cigarettes during the	CIGMON ==1
of cigarettes	past 30 days	
Youth (12-17 year olds)	Adolescents 12-17 years of age at the time of	AGE2>=1 & AGE2<=6 &
reporting past 30-day use	assessment who smoked cigars during the past	CGRMON ==1
of cigars	30 days	
Youth (12-17 year olds)	Adolescents 12-17 years of age at the time of	AGE2>=1 & AGE2<=6 &
reporting past 30-day use	assessment who used smokeless tobacco during	SMKLSSMON ==1
of smokeless tobacco	the past 30 days	

Footnote: In NSDUH 2015 data, n=13,585 for 12-17 year olds and n=14,553 for 18-25 year olds. Sample sizes (n) are 1420, 1015, 654, 296, and 236 for 12-17 year olds who used alcohol, marijuana, cigarettes, cigars, and smokeless tobacco during the past 30 days, respectively.

Sample sizes may vary from one analysis to another due to missing values ("don't' know" and "refused" answers as well as improbably responses removed by NSDUH team) on the outcome variables. Actual sample size for each analysis is shown in the size of the subgroup population (i.e., "Subpop. no. obs" in the output).

5. Results: Syntax and Output

In this section, we present Stata syntax and original output tables to generate results shown in section 6.4.

5.1. Outcome 1: Ever use of Smokeless Tobacco

* Table 1. Syntax and output for ever use of smokeless tobacco among 12-17 year olds

. svy, subpop(if age2>=1 & age2<=6): tab smklssflag, perc ci format(%2.1f)
(running tabulate on estimation sample)</pre>

Number	of	strata	=	50	Number of obs	=	57,146
Number	of	PSUs	=	100	Population size	=	267,694,489
					Subpop. no. obs	=	13,585
					Subpop. size	=	24,893,417.4
					Design df	=	50

RC-SMOKEL			
ESS			
TOBACCO -			
EVER USED	percentage	lb	ub
	+		
0 - Neve	94.3	93.8	94.8
1 - Ever	5.7	5.2	6.2
Total	100.0		

Key: percentage = cell percentage

* Table 2. Syntax and output for ever use of smokeless tobacco among 18-25 year olds

. svy, subpop(if age2>=7 & age2<=12): tab smklssflag, perc ci format(%2.1f)
(running tabulate on estimation sample)</pre>

Number of	strata	=	50	Number of obs	=	57,146
Number of	PSUs	=	100	Population size	=	267,694,489
				Subpop. no. obs	=	14,553
				Subpop. size	=	34,907,161.6
				Design df	=	50

RC-SMOKEL ESS TOBACCO -	 		
EVER USED	percentage	lb	ub
	+		
0 - Neve	80.3	79.4	81.2
1 - Ever	19.7	18.8	20.6
Total	100.0		

Key: percentage = cell percentage

5.2. Outcome 2: Past 30-day use of Smokeless Tobacco

* Table 3. Syntax and output for past 30-day use of smokeless tobacco among 12-17 year olds

. svy, subpop(if age2>=1 & age2<=6): tab smklssmon, perc ci format(%2.1f) (running tabulate on estimation sample)

Number of	strata	=	50	Number of obs	=	57,146
Number of	PSUs	=	100	Population size	=	267,694,489
				Subpop. no. obs	=	13,585
				Subpop. size	=	24,893,417.4
				Design df	=	50

RC-SMOKEL ESS TOBACCO - PAST MONTH USE	 percentage	lb	ub
0 - Did 1 - Used Total	98.5 1.5 100.0	98.2 1.3	98.7 1.8

Key: percentage = cell percentage

* Table 4. Syntax and output for past 30-day use of smokeless tobacco among 18-25 year olds

. svy, subpop(if age2>=7 & age2<=12): tab smklssmon, perc ci format(%2.1f) (running tabulate on estimation sample)

Number o	f strata	=	50	Number of obs	=	57,146
Number o	f PSUs	=	100	Population size	=	267,694,489
				Subpop. no. obs	=	14,553
				Subpop. size	=	34,907,161.6
				Design df	=	50

RC-SMOKEL ESS TOBACCO - PAST	 remontage	1 h	ulo due
MONTH USE	percentage	lb	ub
0 - Did 1 - Used	94.5 5.5	93.9 5.0	95.0 6.1
Total	100.0		

Key: percentage = cell percentage

5.3. Outcome 3: Past 30-day frequent use of smokeless tobacco

*Syntax used to generate the variable of past 30-day frequent use of smokeless tobacco recode smklss30n (0/19=0) (91/93=0) (20/30=1) (else=.), gen(smkl20)

* Table 5. Syntax and output for past 30-day frequent use of smokeless tobacco among 12-17 year olds

. svy, subpop(if age2>=1 & age2<=6): tab smkl20, perc ci format(%2.1f) (running tabulate on estimation sample)

Number	of	strata	=	50	Number of obs	=	57,102
Number	of	PSUs	=	100	Population size	=	267,621,481
					Subpop. no. obs	=	13,541
					Subpop. size	=	24,820,409.2
					Design df	=	50

RECODE of			
smklss30n			
(HOW MANY			
DAYS USED			
SMOKELESS			
TOBACCO			
PAST 30			
DAYS)	percentage	lb	ub
	+		
0	99.6	99.4	99.7
1	0.4	0.3	0.6
Total	100.0		

Key: percentage = cell percentage

* Table 6. Syntax and output for past 30-day frequent use of smokeless tobacco among 18-25 year olds

. svy, subpop(if age2>=7 & age2<=12): tab smkl20, perc ci format(%2.1f)
(running tabulate on estimation sample)</pre>

Number of	strata	=	50	Number of obs	=	57,138
Number of	PSUs	=	100	Population size	=	267,668,717
				Subpop. no. obs	=	14,545
				Subpop. size	=	34,881,389.3
				Design df	=	50

._____

percentage	lb	ub
97.3 2.7	96.9 2.4	97.6
100.0		
	97.3 2.7	97.3 96.9 2.7 2.4

Key: percentage = cell percentage

5.4. Outcome 4: Past 30-day use of alcohol, marijuana, cigarettes, cigars, and smokeless tobacco 5.4.1 Among all adolescents 12-17 years of age

* Table 7. Syntax and output for past 30-day use of alcohol, marijuana, cigarettes, cigars, and smokeless tobacco among 12-17 year olds

```
. foreach var of varlist alcmon mrjmon cigmon cgrmon smklssmon {
  2. dis "30-day use of `var' among adolescents"
 3. svy, subpop(if age2>=1 & age2<=6): tab `var', perc ci format(%2.1f)
  4. }
30-day use of alcmon among adolescents
(running tabulate on estimation sample)
Number of strata
                          50
                                           Number of obs =
                                                                    57,146
Number of PSUs
                         100
                                           Population size = 267,694,489
                                           Subpop. no. obs = 13,585
                                           Subpop. size = 24,893,417.4
                                           Design df
                                                                        50
```

RC-ALCOHO L - PAST MONTH USE	 percentage	lb	ub
0 - Did 1 - Used	90.1	89.5 9.4	90.6
Total	100.0		

Key: percentage = cell percentage

30-day use of mrjmon among adolescents (running tabulate on estimation sample)

RC-MARIJU			
ANA -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	92.9	92.3	93.4
1 - Used	7.1	6.6	7.7
Total	100.0		

Key: percentage = cell percentage

30-day use of cigmon among adolescents (running tabulate on estimation sample)

RC-CIGARE			
TTES -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	95.5	95.1	95.9
1 - Used	4.5	4.1	4.9
Total	100.0		
	•		

Key: percentage = cell percentage

30-day use of cgrmon among adolescents (running tabulate on estimation sample)

RC-CIGARS			
- PAST		11-	
MONTH USE	percentage +	lb	ub
0 - Did	98.0	97.7	98.3
1 - Used	2.0	1.7	2.3
Total	100.0		

Key: percentage = cell percentage

30-day use of smklssmon among adolescents (running tabulate on estimation sample)

Number of	strata	=	50	Number of obs	=	57,146
Number of	PSUs	=	100	Population size	=	267,694,489
				Subpop. no. obs	=	13,585
				Subpop. size	=	24,893,417.4
				Design df	=	50

RC-SMOKEL			
ESS			
TOBACCO -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	98.5	98.2	98.7
1 - Used	1.5	1.3	1.8
Total	100.0		

Key: percentage = cell percentage

5.4.2 Among adolescents who drank alcohol during the past 30 days

* Table 8. Syntax and output for past 30-day use of marijuana, cigarettes, cigars, and smokeless tobacco among adolescents who drank alcohol during the past 30 days

```
. foreach var1 of varlist mrjmon cigmon cgrmon smklssmon {
  2. dis "30-day use of `var1' among adolescents who used alcohol in the past month"
  3. svy, subpop(if age2>=1 & age2<=6 & alcmon==1): tab `var1', perc ci format(%2.0f)
  4. }
30-day use of mrjmon among adolescents who used alcohol in the past month
  (running tabulate on estimation sample)</pre>
```

Number of	strata	=	50	Number of obs	=	57,146
Number of	PSUs	=	100	Population size	=	267,694,489
				Subpop. no. obs	=	1,420
				Subpop. size	=	2,464,203.23
				Design df	=	50

RC-MARIJU ANA - PAST MONTH USE	 percentage	lb	ub
0 - Did 1 - Used	+61 39	57 36	64 43
Total	100		

Key: percentage = cell percentage

30-day use of cigmon among adolescents who used alcohol in the past month (running tabulate on estimation sample)

Number of s	strata =	50	Number of obs	=	57,146
Number of E	PSUs =	100	Population size	=	267,694,489
			Subpop. no. obs	=	1,420
			Subpop. size	=	2,464,203.23
			Design df	=	50

RC-CIGARE			
TTES -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	76	73	78
1 - Used	24	22	27
	İ		
Total	100		

Key: percentage = cell percentage

30-day use of cgrmon among adolescents who used alcohol in the past month (running tabulate on estimation sample)

RC-CIGARS			
- PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	88	86	89
1 - Used	12	11	14
Total	100		
	1		

Key: percentage = cell percentage

30-day use of smklssmon among adolescents who used alcohol in the past month (running tabulate on estimation sample)

Number c	of strata	=	50	Number of obs	=	57,146
Number c	of PSUs	=	100	Population size	=	267,694,489
				Subpop. no. obs	=	1,420
				Subpop. size	=	2,464,203.23
				Design df	=	50

RC-SMOKEL			
ESS			
TOBACCO -			
PAST			
MONTH USE	percentage	1b	ub
	+		
0 - Did	91	89	93
1 - Used	9	7	11
Total	100		
	•		

Key: percentage = cell percentage

5.4.3 Among adolescents who used marijuana during the past 30 days

* Table 9. Syntax and output for past 30-day use of alcohol, cigarettes, cigars, and smokeless tobacco among adolescents who used marijuana during the past 30 days

```
. foreach var1 of varlist alcmon cigmon cgrmon smklssmon {
  2. dis "30-day use of `var1' among adolescents who used marijuana in the past month"
  3. svy, subpop(if age2>=1 & age2<=6 & mrjmon==1): tab `var1', perc ci format(%2.0f)
  4. }
30-day use of alcmon among adolescents who used marijuana in the past month
  (running tabulate on estimation sample)</pre>
```

Design df = 1,764,640.81

RC-ALCOHO L - PAST MONTH USE	 percentage	1b	ub
0 - Did 1 - Used	45 55	41 50	50 59
Total	100		

Key: percentage = cell percentage

30-day use of cigmon among adolescents who used marijuana in the past month (running tabulate on estimation sample)

RC-CIGARE			
TTES -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	65	61	69
1 - Used	35	31	39
Total	100		

Key: percentage = cell percentage

30-day use of cgrmon among adolescents who used marijuana in the past month (running tabulate on estimation sample)

RC-CIGARS			
- PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	82	78	85
1 - Used	18	15	22
Total	100		

Key: percentage = cell percentage

30-day use of smklssmon among adolescents who used marijuana in the past month (running tabulate on estimation sample)

Number of	strata =	50	Number of obs	=	57,146
Number of	PSUs =	100	Population size	=	267,694,489
			Subpop. no. obs	=	1,015
			Subpop. size	=	1,764,640.81
			Design df	=	50

RC-SMOKEL			
ESS			
TOBACCO -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	92	90	94
1 - Used	8	6	10
Total	100		
	•		

Key: percentage = cell percentage

5.4.4 Among adolescents who smoked cigarettes during the past 30 days

* Table 10. Syntax and output for past 30-day use of alcohol, marijuana, cigars, and smokeless tobacco among adolescents who smoked cigarettes during the past 30 days

```
. foreach var1 of varlist alcmon mrjmon cgrmon smklssmon {
  2. dis "30-day use of `var1' among adolescents who smoked cigarettes in the past month"
  3. svy, subpop(if age2>=1 & age2<=6 & cigmon==1): tab `var1', perc ci format(%2.0f)
  4. }
30-day use of alcmon among adolescents who smoked cigarettes in the past month
  (running tabulate on estimation sample)</pre>
```

Number of stra	ata =	50	Number of obs	=	57,146
Number of PSU	=	100	Population size	=	267,694,489
			Subpop. no. obs	=	654
			Subpop. size	=	1,110,587.51
			Design df	=	50

RC-ALCOHO L - PAST MONTH USE	 percentage	lb	ub
0 - Did 1 - Used	46 54	40 48	52 60
Total	100		

Key: percentage = cell percentage

30-day use of mrjmon among adolescents who smoked cigarettes in the past month (running tabulate on estimation sample)

Number of	strata	=	50	Number of obs	=	57,146
Number of	PSUs	=	100	Population size	=	267,694,489
				Subpop. no. obs	=	654
				Subpop. size	= [1,110,587.51
				Desian df	=	50

RC-MARIJU			
ANA -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	44	38	50
1 - Used	56	50	62
	İ		
Total	100		

Key: percentage = cell percentage

30-day use of cgrmon among adolescents who smoked cigarettes in the past month (running tabulate on estimation sample)

Number of	strata	=	50	Number of obs	=	57,146
Number of	PSUs	=	100	Population size	=	267,694,489
				Subpop. no. obs	=	654
				Subpop. size	= [1,110,587.51
				Desian df	=	50

RC-CIGARS			
- PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	78	74	82
1 - Used	22	18	26
Total	100		

Key: percentage = cell percentage

30-day use of smklssmon among adolescents who smoked cigarettes in the past month (running tabulate on estimation sample)

Number of strata	_ =	50	Number of obs	=	57,146
Number of PSUs	=	100	Population size	=	267,694,489
			Subpop. no. obs	=	654
			Subpop. size	=	1,110,587.51
			Design df	=	50

RC-SMOKEL			
ESS			
TOBACCO -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	84	80	88
1 - Used	16	12	20
Total	100		
	•		

Key: percentage = cell percentage

5.4.5 Among adolescents who smoked cigars during the past 30 days

* Table 11. Syntax and output for past 30-day use of alcohol, marijuana, cigarettes, and smokeless tobacco among adolescents who smoked cigars during the past 30 days

```
. foreach var1 of varlist alcmon mrjmon cigmon smklssmon {
  2. dis "30-day use of `var1' among adolescents who smoked cigars in the past month"
  3. svy, subpop(if age2>=1 & age2<=6 & cgrmon==1): tab `var1', perc ci format(%2.0f)
  4. }
30-day use of alcmon among adolescents who smoked cigars in the past month
  (running tabulate on estimation sample)</pre>
```

Number of	strata	=	49	Number of obs	=	56,119
Number of	PSUs	=	98	Population size	=	264,179,184
				Subpop. no. obs	=	296
				Subpop. size	=	488,305.2385
				Design df	=	49

RC-ALCOHO L - PAST MONTH USE	 percentage	lb	ub
0 - Did 1 - Used	38 62	30 54	46 70
Total	100		

Key: percentage = cell percentage

30-day use of mrjmon among adolescents who smoked cigars in the past month (running tabulate on estimation sample)

Number of strat	a =	49	Number of obs	=	56,119
Number of PSUs	=	98	Population size	=	264,179,184
			Subpop. no. obs	=	296
			Subpop. size	=	488,305.2385
			Design df	=	49

RC-MARIJU			
ANA -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	34	27	41
1 - Used	66	59	73
Total	100		

Key: percentage = cell percentage

30-day use of cigmon among adolescents who smoked cigars in the past month (running tabulate on estimation sample)

Number	of	strata	=	49	Number of obs	=	56,119
Number	of	PSUs	=	98	Population size	=	264,179,184
					Subpop. no. obs	=	296
					Subpop. size	=	488,305.2385
					Desian df	=	49

RC-CIGARE TTES - PAST	 		
MONTH USE	percentage	lb	ub
0 - Did 1 - Used	50 50 50	42 42	58 58
Total	100		

Key: percentage = cell percentage

30-day use of smklssmon among adolescents who smoked cigars in the past month (running tabulate on estimation sample)

Number	of	strata	=	49	Number of obs	=	56,119
Number	of	PSUs	=	98	Population size	=	264,179,184
					Subpop. no. obs	=	296
					Subpop. size	=	488,305.2385
					Design df	=	49

RC-SMOKEL			
ESS			
TOBACCO -			
PAST			
MONTH USE	percentage	lb	ub
	+		
0 - Did	83	77	88
1 - Used	17	12	23
Total	100		
	•		

Key: percentage = cell percentage

5.4.6 Among adolescents who used smokeless tobacco during the past 30 days

* Table 12. Syntax and output for past 30-day use of alcohol, marijuana, cigarettes, and cigars among adolescents who used smokeless tobacco during the past 30 days

- . foreach var1 of varlist alcmon mrjmon cigmon cgrmon {
- - 3. svy, subpop(if age2>=1 & age2<=6 & smklssmon==1): tab `var1', perc ci format(2.1f) 4. }

30-day use of alcmon among adolescents who used smokeless tobacco in the past month (running tabulate on estimation sample)

Number of s	strata =	49	Number of obs	=	55,839
Number of P	SUs =	98	Population size	=	261,055,715
			Subpop. no. obs	=	236
			Subpop. size	=	370,754.4163
			Design df	=	49

RC-ALCOHO			
L - PAST MONTH USE	 percentage	lb	ub
0 - Did 1 - Used	42.7 57.3	33.1 47.1	52.9 66.9
Total	100.0		

Key: percentage = cell percentage

30-day use of mrjmon among adolescents who used smokeless tobacco in the past month (running tabulate on estimation sample)

Number of	strata	=	49	Number of obs	=	55,839
Number of	PSUs	=	98	Population size	=	261,055,715
				Subpop. no. obs	=	236
				Subpop. size	=	370,754.4163
				Design df	=	49

RC-MARIJU ANA - PAST MONTH USE	 percentage	lb	ub
0 - Did 1 - Used	61.1 38.9	52.4 31.0	69.0 47.6
Total	100.0		

Key: percentage = cell percentage

30-day use of cigmon among adolescents who used smokeless tobacco in the past month (running tabulate on estimation sample)

Number of	strata	=	49	Number of obs	=	55,839
Number of	PSUs	=	98	Population size	=	261,055,715
				Subpop. no. obs	=	236
				Subpop. size	=	370,754.4163
				Design df	=	49

RC-CIGARE TTES - PAST	 		
MONTH USE	percentage	lb	ub
0 - Did 1 - Used	53.5 46.5	43.9 37.1	62.9 56.1
Total	100.0		

Key: percentage = cell percentage

30-day use of cgrmon among adolescents who used smokeless tobacco in the past month (running tabulate on estimation sample)

Number	of	strata	=	49	Number of obs	=	55,839
Number	of	PSUs	=	98	Population size	=	261,055,715
					Subpop. no. obs	=	236
					Subpop. size	=	370,754.4163
					Design df	=	49

RC-CIGARS - PAST	 		
MONTH USE	percentage	lb	ub
0 - Did 1 - Used	77.5 22.5	70.2 16.5	83.5 29.8
Total	100.0		

Key: percentage = cell percentage

5.5. Outcome 5: Smokeless tobacco brand used most often during the past 30 days

Analysis for Outcome 5 was conducted using SAS 9.3. SAS codes and output excerpts are provided below.

* Table 13. Syntax and output for smokeless tobacco brand used most often during the past 30 days among 12-17 year olds

```
/*Macro to Extract Past 30-Day Smokeless Tobacco Users Aged 12 to 17 Years Who Reported Using
[Brand] Most Often during the Past 30 Days*/
/*NSDUH 2002 to 2014*/
/*SLT30BR2 - SMKLSS TOB BRAND USED MOST OFTEN PAST MO - RECODE*/
%Macro NSDUH Q1(age var);
%do year=2002 %to 2014;
LIBNAME NSDUH
                   "D:\NSDUH\NSDUH&year.\";
LIBNAME LIBRARY
                  "D:\NSDUH\NSDUH&year.\";
/****** Smoking prevalence *******/
proc surveyfreg data=NSDUH.Nsduh&year. missing;
tables SLT30BR2 ;
CLUSTER VEREP;
WEIGHT ANALWT C;
where CATAGE=&age var and SLTREC=1;
ods output OneWay=OneWay&year;
TITLE1 "&year";
run;
data OneWay&year(rename=(Percent=y&year));
set OneWay&year;
where (F SLT30BR2 contains "Grizzly") or (F SLT30BR2 contains "Copenhagen") or (F SLT30BR2
contains "Skoal") or (F SLT30BR2 contains "Red Man");
keep F SLT30BR2 Percent;
run;
%end;
%Mend NSDUH Q1;
%NSDUH Q1(1);
```

[Example SAS Output]

2002

The SURVEYFREQ Procedure

SMKLSS TOB BRAND USED MOST OFTEN PAST MO - RECODE								
SLT30BR2	Frequency	Weighted Frequency	Std Dev of Wgt Freq		Std Err of Percent			
(0208) Red Man	21	24440	6016	5.1171	0.9450			
(0301) Copenhagen	79	104390	1234	21.8566	1.6021			
(0308) Skoal	124	169960	3959	35.5852	1.3588			
(0332) Grizzly	2	2979	2979	0.6236	0.5853			

[Figure Data]

SLT30BR2 - SMKLSS TOB BRAND USED MOST OFTEN PAST MO - RECODE

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Red Man	5.1	5.5	4.6	6.9	5.9	5.1	3.3	6.5	8.9	4.6	6.1	9.3	7.6
Copenhagen	21.9	21.5	20.8	18.5	18.1	16.4	16.7	12.5	17.8	17.6	23.0	34.6	35.7
Skoal	35.6	32.6	34.1	30.1	29.7	27.8	28.3	21.7	17.3	16.5	10.2	6.7	9.6
Grizzly	0.6	4.4	8.9	20.4	23.6	31.9	33.2	36.5	32.4	37.6	41.7	33.8	32.1

	Brand Cited Most Often	Brand Cited 2nd Most Often	Brand Cited 3rd Most Often
2002	Skoal	Copenhagen	Red Man
2003	Skoal	Copenhagen	Red Man
2004	Skoal	Copenhagen	Grizzly
2005	Skoal	Grizzly	Copenhagen
2006	Skoal	Grizzly	Copenhagen
2007	Grizzly	Skoal	Copenhagen
2008	Grizzly	Skoal	Copenhagen
2009	Grizzly	Skoal	Copenhagen
2010	Grizzly	Copenhagen	Skoal
2011	Grizzly	Copenhagen	Skoal
2012	Grizzly	Copenhagen	Skoal
2013	Copenhagen	Grizzly	Red Man
2014	Copenhagen	Grizzly	Skoal