1 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"

2 . \*Habiba Aziz

3 . \*Data-7554 . \*Final Project

5.

6 . set logtype text, perm (set logtype preference recorded)

8 . \*pointing to my directory

9 . cd "c:\users\habiba aziz\desktop\data-755" c:\users\habiba aziz\desktop\data-755

10 . use NHIS\_rev\_11-2-2020\_EJ, clear

11 .

12 . svyset psu,[pweight=sampweight] strata(strata) singleunit(scaled)

pweight: sampweight VCE: linearized Single unit: scaled Strata 1: strata SU 1: psu FPC 1: <zero>

13 . keep if astatflg==1 | astatflg==6 (1,390,262 observations deleted)

14 . \*sex 15 . tab sex

Sex	Freq.	Percent	Cum.
Male Female	296,469 375,249	44.14 55.86	44.14 100.00
Total	671,718	100.00	

16 .

17 . \*year

18 . tab year

Survey	year	Freq.	Percent	Cum.
	1997	36,117	5.38	5.38
	1998	32,440	4.83	10.21
	1999	30,802	4.59	14.79
	2000	32,376	4.82	19.61
	2001	33,328	4.96	24.57
	2002	31,046	4.62	29.20
	2003	30,855	4.59	33.79
	2004	31,333	4.66	38.45
	2005	31,430	4.68	43.13
	2006	24,276	3.61	46.75
	2007	23,393	3.48	50.23
	2008	21,782	3.24	53.47
	2009	27,731	4.13	57.60
	2010	27,157	4.04	61.64
	2011	33,014	4.91	66.56
	2012	34,525	5.14	71.70
	2013	34,557	5.14	76.84
	2014	36,697	5.46	82.31
	2015	33,672	5.01	87.32
	2016	33,028	4.92	92.23
	2017	26,742	3.98	96.22

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2018	25,417	3.78	100.00
Total	671,718	100.00	

19 .
20 . \*sexorien Sexual orientation
21 . tab sexorien

Sexual orientation	Freq.	Percent	Cum.
Lesbian or gay Straight, that is, not lesbian or gay Bisexual Something else I don't know the answer Unknown-refused Unknown-not ascertained	3,176 178,100 1,744 636 1,259 1,133 4,065	1.67 93.68 0.92 0.33 0.66 0.60 2.14	1.67 95.35 96.27 96.60 97.27 97.86 100.00
Total	190,113	100.00	

## 22 . tabulate year sexorien , missing

				ientation					Survey
Tota	•	Unknown-n	Unknown-r	I don't k	Something	Bisexual	Straight,	Lesbian o	year
36,11	36,117	0	0	0	0	0	0	0	1997
32,44	32,440	0	0	0	0	0	0	0	1998
30,80	30,802	0	0	0	0	0	0	0	1999
32,37	32,376	0	0	0	0	0	0	0	2000
33,32	33,328	0	0	0	0	0	0	0	2001
31,04	31,046	0	0	0	0	0	0	0	2002
30,85	30,855	0	0	0	0	0	0	0	2003
31,33	31,333	0	0	0	0	0	0	0	2004
31,43	31,430	0	0	0	0	0	0	0	2005
24,27	24,276	0	0	0	0	0	0	0	2006
23,39	23,393	0	0	0	0	0	0	0	2007
21,78	21,782	0	0	0	0	0	0	0	2008
27,73	27,731	0	0	0	0	0	0	0	2009
27,15	27,157	0	0	0	0	0	0	0	2010
33,01	33,014	0	0	0	0	0	0	0	2011
34,52	34,525	0	0	0	0	0	0	0	2012
34,55	0	773	223	155	56	233	32,546	571	2013
36,69	0	763	225	155	88	282	34,606	578	2014
33,67	0	878	166	232	121	276	31,430	569	2015
33,02	0	652	194	256	124	324	30,952	526	2016
26,74	0	595	160	221	131	333	24,826	476	2017
25,41	0	404	165	240	116	296	23,740	456	2018
671,71	481,605	4,065	1,133	1,259	636	1,744	178,100	3,176	Total

23 .
24 . \*droping the years in which sexorien data is missing
25 . drop if year < 2012
 (447,080 observations deleted)</pre>

26 .

27 . \*missing values of sex orientation

28 . tabulate sexorien, missing

Sexual orientation	Freq.	Percent	Cum.
Lesbian or gay Straight, that is, not lesbian or gay	3,176 178,100	1.41 79.28	1.41 80.70
Bisexual	1,744	0.78	81.47
Something else	636	0.28	81.76
I don't know the answer	1,259	0.56	82.32
Unknown-refused	1,133	0.50	82.82
Unknown-not ascertained	4,065	1.81	84.63
•	34,525	15.37	100.00
Total	224,638	100.00	

## 29 . tabulate sexorien, missing nolabel

Sexual orientation	Freq.	Percent	Cum.
1	3,176	1.41	1.41
2	178,100	79.28	80.70
3	1,744	0.78	81.47
4	636	0.28	81.76
5	1,259	0.56	82.32
7	1,133	0.50	82.82
8	4,065	1.81	84.63
•	34,525	15.37	100.00
Total	224,638	100.00	

- 30 . \*RECODE as MISSING the NIU, Refused, Not Ascertained responses
- 31 . recode sexorien (0=.) (7/8=.)(sexorien: 5198 changes made)

32 .  $\ensuremath{^{*}\text{CHECK}}$  resulting sexual orientation frequency distribution

34 . tabulate sexorien, missing

Sexual orientation	Freq.	Percent	Cum.
Lesbian or gay	3,176	1.41	1.41
Straight, that is, not lesbian or gay	178,100	79.28	80.70
Bisexual	1,744	0.78	81.47
Something else	636	0.28	81.76
I don't know the answer	1,259	0.56	82.32
•	39,723	17.68	100.00
Total	224,638	100.00	

35 .
36 . \*ANALYSIS #1: Variation in Orientations by Gender (sex)
37 . tab sexorien sex, col chi

Key
frequency column percentage

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	Se	ex		
Sexual orientation	Male	Female	Total	
Lesbian or gay	1,752	1,424	3,176	
	2.10	1.40	1.72	
Straight, that is, no	80,191	97,909	178,100	
	96.30	96.33	96.31	
Bisexual	509	1,235	1,744	
	0.61	1.22	0.94	
Something else	276	360	636	
	0.33	0.35	0.34	
I don't know the answ	547	712	1,259	
	0.66	0.70	0.68	
Total	83,275	101,640	184,915	
	100.00	100.00	100.00	

Pearson chi2(4) = 310.5897 Pr = 0.000

 ${\tt 38}$  . by sex, sort : tabulate sexorien sex, cchi2 chi2 column

-> sex = Male

Key				
frequency				
chi2 contribution				
column percentage				

Sexual orientation	Sex Male	Total
Lesbian or gay	1,752	1,752
	0.0	0.0
	2.10	2.10
Straight, that is, no	80,191	80,191
	0.0	0.0
	96.30	96.30
Bisexual	509	509
	0.0	0.0
	0.61	0.61
Something else	276	276
	0.0	0.0
	0.33	0.33
I don't know the answ	547	547
	0.0	0.0
	0.66	0.66
Total	83,275	83,275
	0.0	0.0
	100.00	100.00

# Key frequency chi2 contribution

column percentage

Sex Sexual orientation Female Total 1,424 Lesbian or gay 1,424 0.0 0.0 1.40 1.40 97,909 Straight, that is, no 97,909 0.0 0.0 96.33 96.33 Bisexual 1,235 1,235 0.0 0.0 1.22 1.22 Something else 360 360 0.0 0.0 0.35 0.35 I don't know the answ 712 712 0.0 0.0 0.70 0.70 101,640 Total 101,640 0.0 0.0 100.00 100.00

39 . 40 . \*region 41 . tab region

Region of residence	Freq.	Percent	Cum.
Northeast	36,999	16.47	16.47
North Central/Midwest	48,818	21.73	38.20
South	80,550	35.86	74.06
West	58,271	25.94	100.00
Total	224,638	100.00	

42 . 43 . \*age 44 . tab age

Age	Freq.	Percent	Cum.
18	2,258	1.01	1.01
19	2,589	1.15	2.16
20	2,750	1.22	3.38
21	2,938	1.31	4.69
22	3,093	1.38	6.07
23	3,195	1.42	7.49
24	3,335	1.48	8.97
25	3,564	1.59	10.56
26	3,588	1.60	12.16
27	3,821	1.70	13.86
28	3,821	1.70	15.56
29	3,743	1.67	17.23

Total	224,638	100.00	
85	7,132	3.17	100.00
84	1,218	0.54	96.83
83	1,337	0.60	96.28
82	1,406	0.63	95.69
81	1,513	0.67	95.06
80	1,696	0.75	94.39
79	1,716	0.76	93.63
78	1,838	0.82	92.87
77	1,916	0.85	92.05
76	2,112	0.94	91.20
75	2,304	1.03	90.26
74	2,310	1.03	89.23
73	2,517	1.12	88.20
72	2,657	1.18	87.08
71	2,881	1.28	85.90
70	3,135	1.40	84.62
69	3,184	1.42	83.22
68	3,487	1.55	81.81
67	3,606	1.61	80.25
66	3,735	1.66	78.65
65	3,969	1.77	76.99
64	3,610	1.61	75.22
63	3,818	1.70	73.61
62	3,881	1.73	71.91
61	3,849	1.71	70.18
60	4,046	1.80	68.47
59	3,956	1.76	66.67
58	3,954	1.76	64.91
57	3,914	1.74	63.15
56	3,986	1.77	61.41
55	3,960	1.76	59.63
54	3,918	1.74	57.87
53	3,988	1.78	56.12
52	3,847	1.71	54.35
51	3,716	1.65	52.64
50	3,738	1.66	50.98
49	3,512	1.56	49.32
48	3,499	1.56	47.76
47	3,504	1.56	46.20
46	3,482	1.55	44.64
45	3,543	1.58	43.09
44	3,440	1.52	41.51
43	3,411	1.52	39.98
42	3,425	1.52	38.46
41	3,466	1.54	36.94
40	3,630	1.62	35.39
39	3,389	1.51	33.78
38	3,577	1.59	32.27
37	3,549	1.58	30.68
35 36	3,787 3,636	1.69 1.62	27.48 29.10
34 35	3,805	1.69	25.79 27.48
33	3,900	1.74	24.10
32	3,822	1.70	22.36
31	3,779	1.68	20.66
30	3,937	1.75	18.98
20	2 22	4	40.00

45 . end of do-file

46 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"

47 . \*AgeC

48 . generate AgeC=age

49 . label var AgeC "Collapsed Age"

50 . recode AgeC (18/35=18)(36/50=36) /// > (51/69=51) (70/85=70) (AgeC: 211893 changes made)

51 . label define AgeC\_Lbl 18"18-35" 35"36-50" ///
> 36"36-50" 51"51-69" 70"70+"

52 . label values AgeC AgeC\_Lbl

53 . tab AgeC

Collapsed Age	Freq.	Percent	Cum.
18-35	61,725	27.48	27.48
36-50	52,801	23.50	50.98
51-69	72,424	32.24	83.22
70+	37,688	16.78	100.00
Total	224,638	100.00	

55 . \*smokestatus2 Cigarette smoking recode 2: Currentdetailed/former/never

56 . tab smokestatus2

Cigarette smoking recode 2: Current detailed/former/never	Freq.	Percent	Cum.
Current every day smoker Current some day smoker Former smoker Never smoked Has smoked, current smoking status unkn Unknown if ever smoked	28,730 8,841 52,323 133,716 67 961	12.79 3.94 23.29 59.53 0.03 0.43	12.79 16.73 40.02 99.54 99.57
Total	224,638	100.00	

57 . 58 . \*missing values

59 . tabulate smokestatus2 , missing

Cigarette smoking recode 2: Current detailed/former/never	Freq.	Percent	Cum.
Current every day smoker	28,730	12.79	12.79
Current some day smoker	8,841	3.94	16.73
Former smoker	52,323	23.29	40.02
Never smoked	133,716	59.53	99.54
Has smoked, current smoking status unkn	67	0.03	99.57
Unknown if ever smoked	961	0.43	100.00
Total	224,638	100.00	

## 60 . tabulate smokestatus2 , missing nolabel

Total	224,638	100.00	
90	961	0.43	100.00
40	67	0.03	99.57
30	133,716	59.53	99.54
20	52,323	23.29	40.02
12	8,841	3.94	16.73
11	28,730	12.79	12.79
rmer/never	Freq.	Percent	Cum.
detailed/fo			
Current			
recode 2:			
smoking			
Cigarette			

- 61 . \*RECODE as MISSING the NIU, Refused, Not Ascertained responses
- 62 . recode smokestatus2 (40/90=.) (smokestatus2: 1028 changes made)
- 63 . \*ANALYSIS #2: Variation in smokestatus2 by region
- 64 . tabulate smokestatus2, missing

Cum.	Percent	Freq.	Cigarette smoking recode 2: Current detailed/former/never		
12.79 16.73 40.02 99.54 100.00	12.79 3.94 23.29 59.53 0.46	28,730 8,841 52,323 133,716 1,028	Current every day smoker Current some day smoker Former smoker Never smoked		
·	100.00	224,638	Total		

66 . \* Frequency drank alcohol in past year: Days per week

67 . 68 . tab alcdayswk

Frequency drank alcohol in past year: Days per week	Freq.	Percent	Cum.
Less than one day per week	66,554	29.63	29.63
1 day per week	28,517	12.69	42.32
2 days per week	17,327	7.71	50.04
3 days per week	10,063	4.48	54.51
4 days per week	4,003	1.78	56.30
5 days per week	3,621	1.61	57.91
6 days per week	1,140	0.51	58.42
7 days per week	10,946	4.87	63.29
Did not drink in past year	34,496	15.36	78.65
NIU	46,392	20.65	99.30
Unknown-refused	290	0.13	99.43
Unknown-not ascertained	30	0.01	99.44
Unknown-don't know	1,259	0.56	100.00
Total	224,638	100.00	

#### 69 . tab alcdayswk, nolabel

Frequency drank alcohol in past year: Days per week	Freq.	Percent	Cum.
0	66,554	29.63	29.63
10	28,517	12.69	42.32
20	17,327	7.71	50.04
30	10,063	4.48	54.51
40	4,003	1.78	56.30
50	3,621	1.61	57.91
60	1,140	0.51	58.42
70	10,946	4.87	63.29
80	34,496	15.36	78.65
96	46,392	20.65	99.30
97	290	0.13	99.43
98	30	0.01	99.44
99	1,259	0.56	100.00
Total	224,638	100.00	

70 . recode alcdayswk (0=0.5)(80=0)(10=1)(20=2)(30=3)(40=4)(50=5)(60=6)(70=7)(96/99=.), generate (alcdayswk2) (224638 differences between alcdayswk and alcdayswk2)

## 71 . tab alcdayswk2

RECODE of alcdayswk (Frequency drank alcohol in past year: Days per week)

Days per week)	Freq.	Percent	Cum.
0	34,496	19.53	19.53
.5	66,554	37.67	57.20
1	28,517	16.14	73.34
2	17,327	9.81	83.15
3	10,063	5.70	88.84
4	4,003	2.27	91.11
5	3,621	2.05	93.16
6	1,140	0.65	93.80
7	10,946	6.20	100.00
Total	176,667	100.00	

72

73 . label var alcdayswk2"Drinking Status"

74 . recode alcdayswk2(0=1)(0.5=2) ///
> (1/2=3) (3/4=4) (5/6 = 5)(7=6)
(alcdayswk2: 169043 changes made)

- 75 . label define alcdayswk2\_Lbl 1"No Drinks" 2"less than a day" ///
  - > 3"Between 1 to 2 days" 4"Between 3 to 4 days" 5"Between 5 to 6 days" 6"All seven days"
- 76 . label values alcdayswk2 alcdayswk2\_Lbl
- 77 . \*tab AgeC78 . tab alcdayswk2

Cum.	Percent	Freq.	Drinking Status
19.53 57.20 83.15 91.11 93.80 100.00	19.53 37.67 25.95 7.96 2.69 6.20	34,496 66,554 45,844 14,066 4,761 10,946	No Drinks less than a day Between 1 to 2 days Between 3 to 4 days Between 5 to 6 days All seven days
	100.00	176,667	Total

- 79 . end of do-file
- 80 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"
- 81 . \*deprx ( Take medication for |depression)
- 82 . tab deprx

Take medication for depression	Freq.	Percent	Cum.
NIU	108,069	48.11	48.11
No	101,008	44.96	93.07
Yes	10,688	4.76	97.83
Unknown-refused	381	0.17	98.00
Unknown-not ascertained	4,353	1.94	99.94
Unknown-don't know	139	0.06	100.00
Total	224,638	100.00	

## 83 . tabulate deprx , missing

Take medication for depression	Freq.	Percent	Cum.
NIU	108,069	48.11	48.11
No	101,008	44.96	93.07
Yes	10,688	4.76	97.83
Unknown-refused	381	0.17	98.00
Unknown-not ascertained	4,353	1.94	99.94
Unknown-don't know	139	0.06	100.00
Total	224,638	100.00	

## 84 . tabulate deprx , missing nolabel

Freq.	Percent	Cum.
108,069	48.11	48.11
101,008	44.96	93.07
10,688	4.76	97.83
381	0.17	98.00
4,353	1.94	99.94
139	0.06	100.00
	108,069 101,008 10,688 381 4,353	108,069 48.11 101,008 44.96 10,688 4.76 381 0.17 4,353 1.94

Total **224,638 100.00** 

85 . \*RECODE as MISSING the NIU, Refused, Not Ascertained responses

86 . recode deprx (0=.) (7/9=.) (deprx: 112942 changes made)

## 87 . tabulate deprx, missing

Take medication for depression	Freq.	Percent	Cum.
No Yes	101,008 10,688 112,942	44.96 4.76 50.28	44.96 49.72 100.00
Total	224,638	100.00	

88 . svy : tabulate alcdayswk2 deprx , row
 (running tabulate on estimation sample)

Number of strata = 352 Number of PSUs = 1,259 Number of obs = 88,849 Population size = 694,317,541 Design df = 907

Drinking	Take medication for depression		
Status	No	Yes	Total
No Drink less tha Between Between	.8658 .91 .9346 .9202	.1342 .09 .0654 .0798	1 1 1
Between	.926	.074	1
All seve	.9124	.0876	1
Total	.9105	.0895	1

Key: row proportion

Pearson:

Uncorrected chi2(5) = 560.6320
Design-based F(4.91, 4450.50) = 70.5325 P = 0.0000

39

90 . tab deprx, nolabel

Take medication for depression	Freq.	Percent	Cum.
1 2	101,008 10,688	90.43 9.57	90.43 100.00
Total	111,696	100.00	

#### 91 . tab deprx, nolabel

Cum.	Percent	Freq.	Take medication for depression
90.43 100.00	90.43 9.57	101,008 10,688	1 2
	100.00	111,696	Total

- 92 . gen deprx\_new = deprx
   (112,942 missing values generated)
- 93 . recode deprx\_new (1=0) (2=1) (deprx\_new: 111696 changes made)
- 94 . tab deprx deprx\_new

	_new	deprx	Take medication for
Total	1	0	depression
101,008	0	101,008	No
10,688	10,688	0	Yes
111,696	10,688	101,008	Total

- 95 . end of do-file
- 96 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"
- 97 . \*depfeelevl Level of depression, last time depressed
- 98 . tab depfeelevl, nolabel

Level of depression, last time depressed	Freq.	Percent	Cum.
0	178,689	79.55	79.55
1	24,622	10.96	90.51
2	6,360	2.83	93.34
3	14,140	6.29	99.63
7	437	0.19	99.83
8	10	0.00	99.83
9	380	0.17	100.00
Total	224,638	100.00	

- 99 . \*missing values of depfeelevl
  100 . tabulate depfeelevl , missing
  - Level of depression, last time depressed Percent Freq. Cum. NIU 178,689 79.55 79.55 A little 24,622 10.96 90.51 6,360 A lot 2.83 93.34 Somewhere between little and lot 14,140 6.29 99.63 437 0.19 99.83 Unknown-refused Unknown-not ascertained 10 0.00 99.83 Unknown-don't know 380 0.17 100.00 Total 224,638 100.00

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## 101 . tabulate depfeelevl , missing nolabel

Level of depression, last time depressed	Freq.	Percent	Cum.
0	178,689	79.55	79.55
1	24,622	10.96	90.51
2	6,360	2.83	93.34
3	14,140	6.29	99.63
7	437	0.19	99.83
8	10	0.00	99.83
9	380	0.17	100.00
Total	224,638	100.00	

102 . \*RECODE as MISSING the NIU, Refused, Not Ascertained responses

103 . recode depfeelevl (0=.) (7/9=.) (depfeelevl: 179516 changes made)

104 . \*CHECK resulting depression frequency distribution

105 . tabulate depfeelevl, missing

Cum.	Percent	Freq.	Level of depression, last time depressed
10.96 13.79 20.09 100.00	10.96 2.83 6.29 79.91	24,622 6,360 14,140 179,516	A little A lot Somewhere between little and lot
	100.00	224,638	Total

106 . generate depression\_level=depfeelevl
 (179,516 missing values generated)

107 . end of do-file

108 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"

# 109 . tab depression\_level

depression_ level	Freq.	Percent	Cum.
1	24,622	54.57	54.57
2	6,360	14.10	68.66
3	14,140	31.34	100.00
Total	45,122	100.00	

110 . label var depression\_level "Depression level"

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- 112 . label values depression\_level depression\_level\_Lbl
- 113 . tab depression\_level

Depression level	Freq.	Percent	Cum.
A little depressed A lot depressed	24,622 6,360	54.57 14.10	54.57 68.66
Somewhere b/w A litte and A lot	14,140	31.34	100.00
Total	45,122	100.00	

114 .

end of do-file

- 115 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"
- 116 . \*cross-tab depression level over alcohol status

Number of strata = 352 Number of PSUs = 1,256 Number of obs = 37,657 Population size = 282,571,519 Design df = 904

Depressio	Drinking Status							
n level	No Drink	less tha	Between	Between	Between	All seve	Total	
A little	.097	.2117	.1396	.0475	.0174	.0337	.5469	
A lot de	.0283	.0545	.0303	.0087	.0033	.0072	.1323	
Somewher	.0561	.1286	.0822	.0285	.0082	.0171	.3208	
Total	.1814	.3948	.2522	.0848	.0289	.058	1	

Key: cell proportion

Pearson:

Uncorrected chi2(10) = 102.4953
Design-based F(9.76, 8819.16)= 6.0881 P = 0.0000

118 .

end of do-file

- 119 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"
- 120 . \*cross-tab region level over alcohol status
- 121 . svy : tabulate region alcdayswk2 , row
   (running tabulate on estimation sample)

Region of	Drinking Status							
residence	No Drink	less tha	Between	Between	Between	All seve	Total	
Northeas	.1536	.3823	.2863	.0835	.0287	.0656	1	
North Ce	.1647	.4047	.2826	.0761	.0252	.0466	1	
South	.1977	.3873	.2581	.076	.0248	.0561	1	
West	.1675	.3913	.2574	.0875	.0302	.0661	1	
Total	.1749	.3914	.2688	.0801	.0269	.0579	1	

Key: row proportion

Pearson:

Uncorrected chi2(15) = 708.6963

Design-based F(12.55, 11385.22)= 19.8535 P = 0.0000

122 .

end of do-file

123 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"

124 . \*cross-tab region level over smoke status

125 . svy : tabulate region smokestatus2 , row
 (running tabulate on estimation sample)

Number of strata = 352 Number of PSUs = 1,259 Number of obs = 223,610 Population size = 1,688,213,486 Design df = 907

Region of	Ciga		king recod	e 2: Curren never	t
residence	Current	Current	Former s	Never sm	Total
Northeas	.1066	.0345	.2383	.6206	1
North Ce	.1505	.0381	.2307	.5808	1
South	.1303	.0389	.2108	.62	1
West	.0875	.0368	.2146	.6612	1
Total	.1206	.0375	.221	.6209	1

Key: row proportion

Pearson:

Uncorrected chi2(9) = 1374.1169

Design-based F(8.00, 7255.69)= 54.1760 P = 0.0000

126 .

end of do-file

127 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"

128 . \*female variable generate

129 . gen female=sex

130 . recode female (1=0)(2=1) (female: 224638 changes made)

#### 131 . tab sex female

	fema	le	
Sex	0	1	Total
Male	100,819	0	100,819
Female	0	123,819	123,819
Total	100,819	123,819	224,638

132 . \*pause

133 . tab racenew ,nolabel

Self-report ed Race (Post-1997 OMB			
standards)	Freq.	Percent	Cum.
10	174,083	77.49	77.49
20	30,165	13.43	90.92
30	2,437	1.08	92.01
40	12,870	5.73	97.74
50	4,533	2.02	99.76
61	550	0.24	100.00
Total	224,638	100.00	

134 . recode racenew (61/99=.) (racenew: 550 changes made)

#### 135 . tab racenew

Cum.	Percent	Freq.	Self-reported Race (Post-1997 OMB standards)
77.69 91.15 92.23 97.98 100.00	77.69 13.46 1.09 5.74 2.02	174,083 30,165 2,437 12,870 4,533	White Black/African American American Indian/Alaskan Native Asian Multiple Race
	100.00	224,088	Total

136 . end of do-file

137 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"

138 . \*creating new sexorien variable

139 . tab sexorien, nolabel

Sexual orientation	Freq.	Percent	Cum.
1	3,176	1.72	1.72
2	178,100	96.31	98.03
3	1,744	0.94	98.98
4	636	0.34	99.32
5	1,259	0.68	100.00
Total	184,915	100.00	

140 . gen sexorien\_new = sexorien
 (39,723 missing values generated)

141 .

142 . label var sexorien\_new"Sexorien new"

143 . recode sexorien\_new (4/5=7)
 (sexorien\_new: 1895 changes made)

145 . label values sexorien\_new\_sexorien\_new\_Lbl

146 . tab sexorien\_new

Sexorien new	Freq.	Percent	Cum.
Gay/Lesbian	3,176	1.72	1.72
Straight	178,100	96.31	98.03
Bisexual	1,744	0.94	98.98
Other	1,895	1.02	100.00
Total	184,915	100.00	

147 .

end of do-file

148 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"

149 . \*\* ordered Logistic Regression

150 .

151 . sort depression\_level

152 . svy: ologit depression\_level i.alcdayswk2 i.smokestatus2 i.sexorien\_new i.AgeC i.racenew i.region, or (running ologit on estimation sample)

Survey: Ordered logistic regression

		Linearized				
depression_level	Odds Ratio	Std. Err.	t	P> t	[95% Conf.	Interval]
alcdayswk2						
less than a day	.9595615	.0364337	-1.09	0.277	.8906562	1.033798
Between 1 to 2 days	.9085615	.0378109	-2.30	0.021	.8373038	.9858835
Between 3 to 4 days	.9036978	.0506542	-1.81	0.071	.8095573	1.008786
Between 5 to 6 days	.7874999	.0680702	-2.76	0.006	.664623	.9330945
All seven days	.8397819	.0542884	-2.70	0.007	.7397179	.9533819
smokestatus2						
Current some day smoker	.8688842	.0570731	-2.14	0.033	.7637924	.9884359
Former smoker	.8108755	.0350524	-4.85	0.000	.7449193	.8826716
Never smoked	.6980475	.0268042	-9.36	0.000	.6473752	.7526861
sexorien_new						
Straight	.6448555	.0522793	-5.41	0.000	.5499988	.7560717
Bisexual	1.08399	.1206946	0.72	0.469	.8712104	1.348738
Other	.9762655	.158388	-0.15	0.882	.7100436	1.342304

AgeC 36-50 51-69 70+	.8917275 .7477769 .6372048	.0342791 .0300891 .0321633	-2.98 -7.22 -8.93	0.003 0.000 0.000	.8269268 .6909959 .5771072	.9616062 .8092238 .7035607
racenew Black/African American American Indian/Alaskan Native Asian Multiple Race	1.031238 .9961093 .7454205 1.154304	.0447159 .1324442 .0613349 .1067411	0.71 -0.03 -3.57 1.55	0.478 0.977 0.000 0.121	.9471089 .7673231 .634262 .9627249	1.122839 1.293111 .8760603 1.384007
region North Central/Midwest South West	1.070057 1.051996 1.12072	.0488256 .0440533 .0505127	1.48 1.21 2.53	0.138 0.226 0.012	.9783976 .9689946 1.025843	1.170303 1.142107 1.224373
/cut1 /cut2	6487829 0809389	.0976575 .0978806			8404448 2730385	457121 .1111607

Note: <a href="Estimates are transformed">Estimates are transformed</a> only in the first equation.

153 .

end of do-file

154 . do "C:\Users\HABIBA~1\AppData\Local\Temp\STD1e6c\_000000.tmp"

155 . \*Average Adjusted Predictions & Marginal Effects

156 .

157 . margins alcdayswk2

Predictive margins

Number of strata = 352 Number of obs = 34,761Number of PSUs = 1,256 Population size = 263,513,925Model VCE : Linearized Design df = 904

1.\_predict : Pr(depression\_level==1), predict(pr outcome(1))
2.\_predict : Pr(depression\_level==2), predict(pr outcome(2))
3.\_predict : Pr(depression\_level==3), predict(pr outcome(3))

	Ī	Delta-method				
	Margin	Std. Err.	t	P> t	[95% Conf.	Interval]
_predict#alcdayswk2						
1#No Drinks	.5318802	.0077185	68.91	0.000	.5167319	.5470285
1#less than a day	.5419898	.0054803	98.90	0.000	.5312342	.5527455
1#Between 1 to 2 days	.5553111	.0067351	82.45	0.000	.5420928	.5685295
1#Between 3 to 4 days	.5566164	.0111582	49.88	0.000	.5347175	.5785154
1#Between 5 to 6 days	.5897731	.0191046	30.87	0.000	.5522784	.6272677
1#All seven days	.5743695	.0142871	40.20	0.000	.5463298	.6024091
2#No Drinks	.1334711	.0025967	51.40	0.000	.1283749	.1385673
2#less than a day	.1323631	.0025398	52.12	0.000	.1273785	.1373476
2#Between 1 to 2 days	.1307576	.0025319	51.64	0.000	.1257886	.1357266
2#Between 3 to 4 days	.1305915	.0028174	46.35	0.000	.1250622	.1361209
2#Between 5 to 6 days	.1258592	.0036874	34.13	0.000	.1186224	.133096
2#All seven days	.1281794	.0032244	39.75	0.000	.1218512	.1345076
3#No Drinks	.3346487	.0069684	48.02	0.000	.3209726	.3483247
3#less than a day	.3256471	.0048731	66.83	0.000	.3160831	.335211
3#Between 1 to 2 days	.3139312	.0060291	52.07	0.000	.3020987	.3257638
3#Between 3 to 4 days	.312792	.0097382	32.12	0.000	.2936798	.3319042
3#Between 5 to 6 days	.2843677	.0162545	17.49	0.000	.2524669	.3162686
3#All seven days	.2974511	.0121177	24.55	0.000	.2736691	.3212331

#### 158 . margins smokestatus2

#### Predictive margins

Number of strata = 352 Number of obs = 34,761 Number of PSUs = 1,256 Population size = 263,513,925 Model VCE : Linearized Design df = 904

1.\_predict : Pr(depression\_level==1), predict(pr outcome(1))
2.\_predict : Pr(depression\_level==2), predict(pr outcome(2))
3.\_predict : Pr(depression\_level==3), predict(pr outcome(3))

Delta-method									
	Margin	Std. Err.	t	P> t	[95% Conf.	Interval]			
predict#smokestatus2	2								
1#Current every day smoker	.4866046	.0078143	62.27	0.000	.4712683	.5019409			
1#Current some day smoker	.5213322	.0142859	36.49	0.000	.4932948	.5493696			
1#Former smoker	.53835	.0066711	80.70	0.000	.5252574	.5514426			
1#Never smoked	.5748959	.0050938	112.86	0.000	.5648989	.5848929			
2#Current every day smoker	.1377187	.0026355	52.25	0.000	.1325462	.1428912			
2#Current some day smoker	.134998	.0028781	46.91	0.000	.1293495	.1406464			
2#Former smoker	.1332337	.0025693	51.86	0.000	.1281912	.1382763			
2#Never smoked	.1285303	.0024685	52.07	0.000	.1236856	.1333749			
3#Current every day smoker	.3756767	.0072345	51.93	0.000	.3614783	.3898752			
3#Current some day smoker	.3436698	.0129005	26.64	0.000	.3183515	.3689882			
3#Former smoker	.3284163	.0060281	54.48	0.000	.3165857	.3402469			
3#Never smoked	. 2965738	.0045032	65.86	0.000	.2877358	.3054119			

#### 159 . margins sexorien\_new

### Predictive margins

Number of strata = 352 Number of obs = 34,761Number of PSUs = 1,256 Population size = 263,513,925Model VCE : Linearized Design df = 904

1.\_predict : Pr(depression\_level==1), predict(pr outcome(1))
2.\_predict : Pr(depression\_level==2), predict(pr outcome(2))
3.\_predict : Pr(depression\_level==3), predict(pr outcome(3))

	Delta-method								
	Margin	Std. Err.	t	P> t	[95% Conf.	Interval]			
predict#sexorien_new									
1#Gay/Lesbian	.4467868	.0194446	22.98	0.000	.408625	.4849485			
1#Straight	.5547944	.0036689	151.21	0.000	.5475938	.5619951			
1#Bisexual	.4271709	.0198994	21.47	0.000	.3881165	.4662253			
1#Other	.4526639	.0348156	13.00	0.000	.3843351	.5209926			
2#Gay/Lesbian	.1392787	.0026002	53.56	0.000	.1341755	.1443819			
2#Straight	.1312715	.0024677	53.20	0.000	.1264285	.1361145			
2#Bisexual	.1394259	.0025926	53.78	0.000	.1343377	.1445142			
2#Other	.139152	.002709	51.37	0.000	.1338353	.1444686			
3#Gay/Lesbian	.4139345	.0191845	21.58	0.000	.3762833	.4515858			
3#Straight	.3139341	.0032941	95.30	0.000	.3074691	.320399			
3#Bisexual	.4334032	.019969	21.70	0.000	.3942122	.4725941			
3#Other	.4081842	.034009	12.00	0.000	.3414384	.4749299			