

## Testing the Difference between the Highest and Lowest Prevalence Rates in Substate Regions within Each State Based on Data Collected from the 2004-2006 National Surveys on Drug Use and Health

To test the difference between the prevalence rates of two substate regions in a particular State, say region 1 (with the lowest estimate) and region 2 (with the highest estimate), let  $\pi_1$  and  $\pi_2$  denote the respective prevalence rates. For testing the hypothesis  $\pi_2 = \pi_1$  (or  $\pi_2 - \pi_1 = 0$ ), the difference between  $\pi_1$  and  $\pi_2$  is defined in terms of the log-odds ratio (*lor*) as opposed to the simple difference because the posterior distribution of the *lor* is closer to a Gaussian distribution than the posterior distribution of the simple difference ( $\pi_2 - \pi_1$ ).

The method used here to test the hypothesis of no difference between two substate regions, based on their 2004-2006 substate small area estimates, is similar to the method used to test the hypothesis of no change between the 2004-2005 and 2005-2006 State small area estimates in the 2005-2006 State small area estimation (SAE) report. For details, see Section A.10 of Appendix A in Hughes, Sathe, and Spagnola (2008).

The *lor* is defined as follows:

$$lor = \log \{ [\pi_2 / (1 - \pi_2)] \div [\pi_1 / (1 - \pi_1)] \}.$$

The above hypothesis,  $\pi_2 - \pi_1 = 0$ , is now transformed to testing  $lor = 0$ . To compute the posterior variance of *lor*, we define the *lor* for each of the 1,250 Markov Chain Monte Carlo (MCMC) cycles as follows:

$$l_i = \log \{ [p_{2i} / (1 - p_{2i})] \div [p_{1i} / (1 - p_{1i})] \},$$

where  $i = 1, 2, \dots, 1,250$ .

In the definition of  $l_i$  above,  $p_{2i}$  and  $p_{1i}$  denote, respectively, the prevalence rates of regions 2 and 1 for the  $i$ -th MCMC cycle. An estimate of *lor* is given by

$$\hat{l} = \log \{ [p_2 / (1 - p_2)] \div [p_1 / (1 - p_1)] \},$$

where  $p_2 = (\sum_{i=1}^{1,250} p_{2i}) \div 1,250$  and  $p_1 = (\sum_{i=1}^{1,250} p_{1i}) \div 1,250$ . The variance of  $\hat{l}$  is approximated by

$$v = \frac{1}{1,250} \sum_{i=1}^{1,250} (l_i - \bar{l})^2, \text{ where } \bar{l} = (\sum_{i=1}^{1,250} l_i) \div 1,250.$$

To calculate the  $p$  value for testing the null hypothesis of no difference ( $lor = 0$ ), it is assumed that the posterior distribution of *lor* is normal with mean =  $\hat{l}$  and variance =  $v$ .

With the null value of  $lor = 0$ , the Bayes  $p$  value or posterior probability of no difference is given by  $p \text{ value} = 2 * P[Z \geq abs(z)]$ , where  $Z$  is a standard normal random variate,  $z = (\hat{l} \div \sqrt{v})$ , and  $abs(z)$  denotes the absolute value of  $z$ .

Note that the unbenchmarked estimates of the prevalence rates of the 2004-2006 substate regions (Office of Applied Studies, 2008) were used in this significance testing. Testing  $\pi_2 = \pi_1$  is similar to testing  $\theta_2 = \theta_1$ , where  $\theta_2 = \pi_2 + \Delta$  and  $\theta_1 = \pi_1 + \Delta$  are the respective benchmarked estimates. For details on benchmarking, see Section A.4 of Appendix A in Hughes et al. (2008).

For all States that had aggregate regions defined (e.g., New York and Texas), the prevalence rates for aggregate regions were calculated by aggregating the corresponding substate region estimates. Hence, the aggregate region-level estimates are more centered, unlike the substate region estimates. For this reason, aggregate regions were excluded from the significance testing of the difference between the highest and the lowest prevalence estimates in substate regions within a State.

## References

Hughes, A., Sathe, N., & Spagnola, K. (2008). *State estimates of substance use from the 2005-2006 National Surveys on Drug Use and Health* (DHHS Publication No. SMA 08-4311, NSDUH Series H-33). Rockville, MD: Substance Abuse and Mental Health Services Administration, Office of Applied Studies. [Available at <http://oas.samhsa.gov/states.htm>]

Office of Applied Studies. (2008, June). *Substate estimates from the 2004-2006 National Surveys on Drug Use and Health*. Rockville, MD: Substance Abuse and Mental Health Services Administration. [Available at <http://oas.samhsa.gov/substate.cfm>]

**Table T1. *Illicit Drug Use in Past Month* among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	6.43	Region 2	8.05	0.152
Alaska	Gulf Coast	9.94	Urban	12.41	0.173
Arizona	Rural South	6.20 <sup>b</sup>	Pima	8.55	0.094
Arkansas	Areas 7, 12, and 13	7.31	Area 9	8.55	0.359
California	Region 6 (Santa Clara)	7.49 <sup>a</sup>	Region 1	13.64	0.001
Colorado	Region 4	7.85	Regions 2 and 7	10.05	0.129
Connecticut	Southwest	7.70 <sup>b</sup>	Eastern	10.26	0.091
Delaware	Sussex	7.35 <sup>a</sup>	Wilmington City	10.95	0.029
District of Columbia	Ward 4	7.72 <sup>a</sup>	Ward 1	12.20	0.028
Florida	Circuit 5	6.01 <sup>a</sup>	Circuit 2	12.91	0.000
Georgia	Region 4	6.38 <sup>a</sup>	Region 3	9.15	0.035
Hawaii	Honolulu	6.89 <sup>a</sup>	Maui	10.25	0.022
Idaho	Region 5	5.85 <sup>b</sup>	Region 4	8.00	0.094
Illinois	Region IV	6.37 <sup>a</sup>	Region I (Cook)	8.85	0.006
Indiana	Northeast	6.15 <sup>a</sup>	Central	9.10	0.028
Iowa	Northwest	4.80 <sup>a</sup>	Central	7.37	0.027
Kansas	South Central	5.63 <sup>a</sup>	Kansas City Metro	8.46	0.022
Kentucky	Kentucky River, Mountain, and Pathways	6.19 <sup>a</sup>	Seven Counties	9.04	0.029
Louisiana	Region 4	6.56 <sup>b</sup>	Region 1	9.53	0.061
Maine	Midcoast	8.25	Cumberland	10.45	0.154
Maryland	West	5.31 <sup>a</sup>	Baltimore City	9.46	0.004
Massachusetts	Metrowest	8.51 <sup>a</sup>	Boston	12.14	0.023
Michigan	St. Clair	7.19 <sup>a</sup>	Detroit City	11.96	0.002
Minnesota	Regions 5 and 6	6.44 <sup>a</sup>	Region 7A (Hennepin)	9.84	0.016
Mississippi	Region 3	5.72 <sup>b</sup>	Region 7	8.19	0.059
Missouri	Southwest	6.54 <sup>b</sup>	Eastern (St. Louis City and County)	8.82	0.066
Montana	Region 1	7.68 <sup>a</sup>	Region 5	13.84	0.000

See notes at end of table.

(continued)

**Table T1. *Illicit Drug Use in Past Month* among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 4	5.25 <sup>a</sup>	Region 6	7.74	0.029
Nevada	Rural	8.31	Washoe	9.62	0.387
New Hampshire	Southern 1 (Rockingham)	7.78 <sup>b</sup>	Central 1	10.21	0.068
New Jersey	Northern	6.11 <sup>a</sup>	Southern	8.47	0.040
New Mexico	Region 4	7.65 <sup>b</sup>	Region 2	10.65	0.064
New York	Region 4	7.07 <sup>a</sup>	Region 3	12.59	0.000
North Carolina	South Central	6.67	Western	7.71	0.342
North Dakota	Lake Region and South Central	4.91 <sup>a</sup>	Southeast	7.29	0.033
Ohio	Boards 20, 32, 54, and 69	5.62 <sup>a</sup>	Board 31 (Hamilton)	10.05	0.001
Oklahoma	Northwest and Southwest	7.28	Tulsa County	9.70	0.104
Oregon	Region 5	8.19 <sup>a</sup>	Region 1 (Multnomah)	12.51	0.017
Pennsylvania	Regions 5, 18, 23, 24, and 46	5.58 <sup>a</sup>	Region 36 (Philadelphia)	11.19	0.000
Rhode Island	Kent	9.41 <sup>b</sup>	Washington	12.18	0.091
South Carolina	Region 3	6.52	Region 2	7.72	0.321
South Dakota	Region 5	6.05	Region 4	7.73	0.221
Tennessee	Region 6	7.21 <sup>a</sup>	Region 4 (Davidson)	11.04	0.026
Texas	Region 11c (Hidalgo)	5.33 <sup>a</sup>	Region 7a	9.53	0.000
Utah	Central, Four Corners, San Juan, and Southwest	5.38 <sup>a</sup>	Salt Lake County	8.49	0.014
Vermont	Rural Southeast	9.87 <sup>a</sup>	Champlain Valley	12.97	0.042
Virginia	Region 2	6.57	Region 3	7.51	0.438
Washington	Region 5	7.62 <sup>a</sup>	Region 4 (King)	10.53	0.049
West Virginia	Northern A and B	6.49 <sup>a</sup>	Northern C and D	10.75	0.007
Wisconsin	Northeastern	6.74	Milwaukee	8.77	0.126
Wyoming	Judicial District 5	6.17 <sup>a</sup>	Judicial District 2	11.01	0.001

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Illicit Drugs include marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T2. *Illicit Drug Use Other Than Marijuana in Past Month* among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	3.48	Region 2	4.69	0.130
Alaska	Rural	3.30	Urban	4.61	0.112
Arizona	Rural South	3.27	Pima	4.50	0.211
Arkansas	Areas 5 and 6	4.03	Areas 1 and 2	4.91	0.352
California	Region 11 (Los Angeles)	3.15 <sup>b</sup>	Region 1	4.60	0.051
Colorado	Region 4	3.88	Regions 5 and 6	4.69	0.430
Connecticut	South Central	3.51	Eastern	4.54	0.218
Delaware	Sussex	3.27	Wilmington City	4.38	0.256
District of Columbia	Ward 7	2.75 <sup>a</sup>	Ward 2	5.06	0.014
Florida	Circuit 5	3.16 <sup>a</sup>	Circuit 1	5.44	0.017
Georgia	Region 3	3.12	Region 1	4.09	0.206
Hawaii	Honolulu	2.85	Maui	3.06	0.738
Idaho	Region 5	2.76	Region 4	3.94	0.131
Illinois	Region III	2.72 <sup>b</sup>	Region I (Cook)	3.65	0.088
Indiana	Northeast	3.21	Central	4.42	0.163
Iowa	Northwest	2.42 <sup>b</sup>	Central	3.77	0.076
Kansas	South Central	2.81	Wichita (Sedgwick)	4.15	0.102
Kentucky	Adanta, Cumberland River, and Lifeskills	3.56	Bluegrass, Comprehend, and North Key	4.12	0.498
Louisiana	Region 4	3.54 <sup>b</sup>	Regions 2 and 9	5.11	0.092
Maine	Midcoast	3.00	York	3.48	0.521
Maryland	Prince George's	2.51	Baltimore City	3.79	0.124
Massachusetts	Metrowest	3.39 <sup>a</sup>	Boston	5.35	0.037
Michigan	Northern	3.11 <sup>a</sup>	Genesee	4.83	0.037
Minnesota	Regions 3 and 4	2.67	Regions 1 and 2	3.71	0.170
Mississippi	Region 3	3.04	Region 7	4.05	0.223
Missouri	Southwest	3.44	Central	4.13	0.375
Montana	Region 1	3.09	Region 5	4.34	0.132

See notes at end of table.

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**Table T2. *Illicit Drug Use Other Than Marijuana in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)***

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 5	2.85	Region 6	3.61	0.257
Nevada	Clark	3.90	Washoe	4.17	0.738
New Hampshire	Southern 2	2.75 <sup>b</sup>	Central 2	4.00	0.096
New Jersey	Northern	3.03	Metropolitan	3.76	0.306
New Mexico	Region 4	3.81	Region 3 (Bernalillo)	4.42	0.462
New York	Region 4	2.78 <sup>a</sup>	Region 12	4.61	0.019
North Carolina	South Central	3.17 <sup>b</sup>	Western	4.52	0.084
North Dakota	Badlands and West Central	2.40	Northeast	2.93	0.385
Ohio	Boards 7, 15, 41, 79, and 84	2.90	Board 31 (Hamilton)	4.07	0.109
Oklahoma	Northwest and Southwest	3.77	Tulsa County	4.79	0.303
Oregon	Region 3	3.17	Region 1 (Multnomah)	4.08	0.209
Pennsylvania	Regions 19, 26, 28, and 42	2.46 <sup>a</sup>	Region 36 (Philadelphia)	4.06	0.015
Rhode Island	Kent	3.81	Washington	5.16	0.134
South Carolina	Region 3	2.78	Region 2	3.96	0.103
South Dakota	Region 6	2.29	Region 4	3.21	0.189
Tennessee	Region 6	3.60 <sup>b</sup>	Region 4 (Davidson)	5.45	0.093
Texas	Region 11c (Hidalgo)	3.17 <sup>a</sup>	Region 7a	5.30	0.015
Utah	Central, Four Corners, San Juan, and Southwest	3.55	Davis County	4.26	0.425
Vermont	Rural Southeast	3.25 <sup>b</sup>	Champlain Valley	4.58	0.065
Virginia	Region 2	2.95	Region 3	3.87	0.211
Washington	Region 6	3.55	Region 3	4.00	0.592
West Virginia	South Central III	3.54 <sup>a</sup>	Northern C and D	5.64	0.027
Wisconsin	Northern	3.10	Western	3.55	0.542
Wyoming	Judicial District 5	3.44	Judicial District 2	4.40	0.293

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Illicit Drugs Other Than Marijuana include cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T3. Marijuana Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	3.96	Region 2	5.27	0.101
Alaska	Gulf Coast	8.23	Urban	10.42	0.182
Arizona	Rural South	4.11	Pima	5.61	0.143
Arkansas	Areas 3 and 4	4.87	Area 9	6.49	0.137
California	Region 6 (Santa Clara)	5.17 <sup>a</sup>	Region 1	11.32	0.000
Colorado	Region 4	5.01 <sup>a</sup>	Regions 2 and 7	7.88	0.013
Connecticut	Southwest	6.26 <sup>b</sup>	Eastern	8.80	0.062
Delaware	Kent	4.92 <sup>a</sup>	Wilmington City	7.68	0.026
District of Columbia	Ward 4	5.39 <sup>a</sup>	Ward 2	9.30	0.005
Florida	Circuits 11 and 16	3.84 <sup>a</sup>	Circuit 2	10.76	0.000
Georgia	Region 4	4.40 <sup>a</sup>	Region 3	7.66	0.008
Hawaii	Honolulu	4.99 <sup>a</sup>	Hawaii Island	8.57	0.005
Idaho	Region 5	4.28	Region 2	6.02	0.117
Illinois	Region II	4.67 <sup>a</sup>	Region I (Cook)	6.37	0.002
Indiana	Northeast	4.51 <sup>b</sup>	Central	6.33	0.087
Iowa	Northwest	3.33 <sup>a</sup>	Central	5.11	0.043
Kansas	South Central	4.20 <sup>a</sup>	Kansas City Metro	6.65	0.020
Kentucky	Kentucky River, Mountain, and Pathways	4.26 <sup>a</sup>	Seven Counties	7.24	0.008
Louisiana	Region 4	4.33 <sup>b</sup>	Region 1	6.56	0.055
Maine	Midcoast	7.01 <sup>b</sup>	Cumberland	9.67	0.060
Maryland	West	3.70 <sup>a</sup>	Baltimore City	6.68	0.009
Massachusetts	Metrowest	7.13 <sup>b</sup>	Boston	9.70	0.064
Michigan	St. Clair	5.31 <sup>a</sup>	Detroit City	9.75	0.001
Minnesota	Regions 5 and 6	5.25 <sup>a</sup>	Region 7A (Hennepin)	8.83	0.004
Mississippi	Region 3	3.85 <sup>a</sup>	Region 7	6.09	0.041
Missouri	Southwest	4.68 <sup>a</sup>	Eastern (St. Louis City and County)	6.90	0.038
Montana	Region 2	5.88 <sup>a</sup>	Region 5	12.05	0.000

See notes at end of table.

(continued)

**Table T3. Marijuana Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 4	3.36 <sup>a</sup>	Region 6	5.97	0.004
Nevada	Rural	5.96	Washoe	7.43	0.245
New Hampshire	Southern 1 (Rockingham)	6.89	Central 1	8.11	0.321
New Jersey	Northern	4.24 <sup>a</sup>	Southern	6.42	0.024
New Mexico	Region 4	5.72 <sup>a</sup>	Region 2	8.52	0.041
New York	Region 4	5.16 <sup>a</sup>	Region 3	10.14	0.000
North Carolina	North Central	4.81	Western	5.68	0.346
North Dakota	North Central and Northwest	3.39 <sup>a</sup>	Southeast	6.20	0.001
Ohio	Boards 20, 32, 54, and 69	4.15 <sup>a</sup>	Board 31 (Hamilton)	7.91	0.001
Oklahoma	East Central	3.89 <sup>a</sup>	Oklahoma County	6.61	0.012
Oregon	Region 4	6.34 <sup>a</sup>	Region 1 (Multnomah)	10.89	0.003
Pennsylvania	Regions 5, 18, 23, 24, and 46	4.20 <sup>a</sup>	Region 36 (Philadelphia)	7.86	0.000
Rhode Island	Kent	8.33 <sup>b</sup>	Washington	11.37	0.051
South Carolina	Region 3	5.20	Region 2	5.39	0.850
South Dakota	Region 6	4.40	Region 4	5.50	0.282
Tennessee	Region 5	4.94 <sup>a</sup>	Region 4 (Davidson)	7.40	0.047
Texas	Region 10	3.13 <sup>a</sup>	Region 7a	6.44	0.000
Utah	Central, Four Corners, San Juan, and Southwest	3.01 <sup>a</sup>	Salt Lake County	5.47	0.005
Vermont	Rural Southwest	8.47 <sup>b</sup>	Champlain Valley	11.35	0.052
Virginia	Region 2	5.01	Region 3	5.89	0.371
Washington	Region 2	5.78 <sup>a</sup>	Region 4 (King)	8.76	0.022
West Virginia	Northern A and B	4.37 <sup>a</sup>	Northern C and D	8.84	0.001
Wisconsin	Northern	4.95 <sup>b</sup>	Milwaukee	7.08	0.064
Wyoming	Judicial District 8	4.19 <sup>a</sup>	Judicial District 2	8.91	0.000

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.



**Table T4. Average Annual Rate of First Use of Marijuana among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 4	1.22	Region 3	1.40	0.452
Alaska	Gulf Coast	2.05	Rural	2.64	0.375
Arizona	Rural South	1.42	Pima	1.84	0.196
Arkansas	Areas 3 and 4	1.32	Area 9	1.65	0.227
California	Region 11 (Los Angeles)	1.43 <sup>a</sup>	Region 2	2.11	0.002
Colorado	Regions 5 and 6	1.89	Region 1	2.17	0.482
Connecticut	Southwest	1.71 <sup>a</sup>	Eastern	2.63	0.028
Delaware	Sussex	1.39 <sup>a</sup>	New Castle (excluding Wilmington City)	2.05	0.012
District of Columbia	Ward 4	1.33 <sup>a</sup>	Ward 2	2.95	0.000
Florida	Circuits 11 and 16	0.89 <sup>a</sup>	Circuit 2	3.04	0.000
Georgia	Region 1	1.42	Region 2	1.78	0.190
Hawaii	Honolulu	1.64	Hawaii Island	1.99	0.281
Idaho	Region 5	1.35 <sup>a</sup>	Region 4	2.18	0.015
Illinois	Region V	1.36 <sup>a</sup>	Region I (Cook)	1.76	0.043
Indiana	Northeast	1.26 <sup>a</sup>	West	2.45	0.003
Iowa	Southwest	1.22 <sup>a</sup>	Central	2.26	0.006
Kansas	South Central	1.24 <sup>a</sup>	Kansas City Metro	2.38	0.002
Kentucky	Kentucky River, Mountain, and Pathways	1.25 <sup>a</sup>	Seven Counties	1.82	0.041
Louisiana	Region 1	1.39 <sup>b</sup>	Regions 2 and 9	2.09	0.050
Maine	York	1.59 <sup>a</sup>	Cumberland	2.29	0.041
Maryland	Montgomery	1.46 <sup>b</sup>	North Central	2.15	0.052
Massachusetts	Southeast	1.74 <sup>a</sup>	Western	2.56	0.046
Michigan	Bay	1.58 <sup>a</sup>	Washtenaw	2.82	0.001
Minnesota	Regions 1 and 2	1.54	Region 7A (Hennepin)	2.06	0.130
Mississippi	Region 3	1.14	Region 7	1.55	0.133
Missouri	Southeast	1.39 <sup>a</sup>	Eastern (excluding St. Louis)	2.13	0.035
Montana	Region 2	1.45 <sup>a</sup>	Region 5	2.51	0.006

See notes at end of table.

(continued)

**Table T4. Average Annual Rate of First Use of Marijuana among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Regions 1 and 2	1.33	Region 5	1.77	0.106
Nevada	Clark	1.43 <sup>a</sup>	Washoe	2.03	0.037
New Hampshire	Southern 1 (Rockingham)	1.93	Central 1	2.37	0.256
New Jersey	Northern	1.28 <sup>a</sup>	Southern	1.80	0.037
New Mexico	Region 4	1.60	Region 2	2.21	0.135
New York	Region 4	0.90 <sup>a</sup>	Region 8	2.56	0.000
North Carolina	North Central	1.45	Eastern	1.48	0.890
North Dakota	Lake Region and South Central	1.18 <sup>a</sup>	Southeast	2.01	0.002
Ohio	Boards 27, 71, and 73	1.33 <sup>a</sup>	Board 9 (Butler)	2.24	0.006
Oklahoma	Southeast	1.30	Oklahoma County	1.63	0.230
Oregon	Region 4	1.74	Region 5	2.34	0.147
Pennsylvania	Regions 5, 18, 23, 24, and 46	1.15 <sup>a</sup>	Regions 6, 12, 16, 31, 35, 39, 45, and 47	2.10	0.000
Rhode Island	Providence	1.91 <sup>a</sup>	Bristol and Newport	2.86	0.020
South Carolina	Region 3	1.45	Region 2	1.85	0.139
South Dakota	Region 3	1.37	Region 4	1.91	0.133
Tennessee	Region 6	1.34 <sup>b</sup>	Region 7 (Shelby)	1.83	0.096
Texas	Region 4	1.17 <sup>a</sup>	Region 7a	2.06	0.001
Utah	Central, Four Corners, San Juan, and Southwest	1.02 <sup>a</sup>	Weber, Morgan	1.70	0.036
Vermont	Rural Southwest	2.05	Champlain Valley	2.59	0.128
Virginia	Region 2	1.24 <sup>a</sup>	Region 5	1.79	0.043
Washington	Region 2	1.44 <sup>b</sup>	Region 1	2.06	0.083
West Virginia	Southern I and III	1.06 <sup>a</sup>	Northern C and D	1.66	0.016
Wisconsin	Northeastern	1.51 <sup>a</sup>	Milwaukee	2.47	0.013
Wyoming	Judicial District 5	1.54 <sup>a</sup>	Judicial District 2	3.34	0.000

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: *Average annual rate* =  $100 * \{ [X_1 \div (0.5 * X_1 + X_2)] \div 2 \}$ , where  $X_1$  is the number of marijuana initiates in the past 24 months and  $X_2$  is the number of persons who never used marijuana. Both of the computation components,  $X_1$  and  $X_2$ , are based on a survey-weighted hierarchical Bayes estimation approach. Note that the age group is based on a respondent's age at the time of the interview, not his or her age at first use.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T5. Perceptions of Great Risk of Smoking Marijuana Once a Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	49.05	Region 4	52.62	0.249
Alaska	Southeast	25.30 <sup>a</sup>	Rural	36.84	0.000
Arizona	Pima	35.72 <sup>a</sup>	Rural South	44.59	0.012
Arkansas	Area 9	42.41 <sup>a</sup>	Areas 7, 12, and 13	49.20	0.042
California	Region 4	29.25 <sup>a</sup>	Region 12	45.73	0.000
Colorado	Regions 2 and 7	30.61 <sup>a</sup>	Region 4	42.60	0.000
Connecticut	Northwestern	31.62 <sup>b</sup>	North Central	37.10	0.078
Delaware	New Castle (excluding Wilmington City)	34.59 <sup>a</sup>	Kent	44.39	0.001
District of Columbia	Ward 3	17.90 <sup>a</sup>	Ward 7	44.04	0.000
Florida	Circuit 18	35.63 <sup>a</sup>	Circuits 11 and 16	54.01	0.000
Georgia	Region 3	40.92 <sup>b</sup>	Region 4	46.10	0.085
Hawaii	Maui	32.27 <sup>a</sup>	Honolulu	39.02	0.032
Idaho	Region 1	34.04 <sup>a</sup>	Region 7	44.66	0.003
Illinois	Region II	35.81 <sup>a</sup>	Region IV	44.06	0.000
Indiana	West	35.77 <sup>a</sup>	Northeast	42.74	0.050
Iowa	Central	36.62 <sup>b</sup>	Southwest	42.65	0.081
Kansas	Kansas City Metro	34.65 <sup>a</sup>	West	48.60	0.000
Kentucky	Seven Counties	38.72 <sup>a</sup>	Kentucky River, Mountain, and Pathways	49.70	0.001
Louisiana	Region 10 (Jefferson)	39.86 <sup>a</sup>	Regions 7 and 8	48.75	0.012
Maine	Cumberland	28.51 <sup>a</sup>	Penquis	35.11	0.038
Maryland	North Central	33.87 <sup>a</sup>	Prince George's	45.77	0.002
Massachusetts	Metrowest	25.38 <sup>a</sup>	Northeast	32.12	0.016
Michigan	Washtenaw	29.17 <sup>a</sup>	Detroit City	42.85	0.000
Minnesota	Region 7A (Hennepin)	28.54 <sup>a</sup>	Regions 3 and 4	36.27	0.008
Mississippi	Region 7	46.87 <sup>a</sup>	Region 5	57.26	0.006
Missouri	Eastern (St. Louis City and County)	35.10 <sup>a</sup>	Southeast	45.80	0.002
Montana	Region 4	31.46 <sup>a</sup>	Region 1	41.55	0.003

See notes at end of table.

(continued)

**Table T5. Perceptions of Great Risk of Smoking Marijuana Once a Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 6	36.72 <sup>a</sup>	Region 4	46.74	0.001
Nevada	Washoe	34.33	Rural	36.97	0.411
New Hampshire	Northern	25.47	Central 2	29.42	0.192
New Jersey	Central	34.85 <sup>a</sup>	Metropolitan	41.19	0.046
New Mexico	Region 3 (Bernalillo)	34.87 <sup>a</sup>	Region 4	46.85	0.000
New York	Region 3	32.05 <sup>a</sup>	Region 1	45.14	0.000
North Carolina	Western	39.59	Eastern	43.48	0.215
North Dakota	Southeast	34.00 <sup>a</sup>	Lake Region and South Central	46.07	0.000
Ohio	Board 25 (Franklin)	33.39 <sup>a</sup>	Boards 7, 15, 41, 79, and 84	46.36	0.000
Oklahoma	Tulsa County	36.61 <sup>a</sup>	Southeast	44.60	0.026
Oregon	Region 1 (Multnomah)	25.60 <sup>a</sup>	Region 5	33.76	0.011
Pennsylvania	Regions 7, 13, 20, and 33	34.22 <sup>a</sup>	Regions 5, 18, 23, 24, and 46	45.50	0.000
Rhode Island	Washington	28.67 <sup>b</sup>	Providence	33.39	0.092
South Carolina	Region 2	39.94	Region 3	44.74	0.107
South Dakota	Region 7	36.25 <sup>a</sup>	Region 6	45.89	0.009
Tennessee	Region 5	38.55 <sup>a</sup>	Region 6	47.96	0.007
Texas	Region 7a	33.17 <sup>a</sup>	Region 10	55.46	0.000
Utah	Salt Lake County	39.05 <sup>a</sup>	Central, Four Corners, San Juan, and Southwest	48.25	0.003
Vermont	Champlain Valley	24.36 <sup>a</sup>	Rural Northeast	32.39	0.002
Virginia	Region 2	36.45 <sup>a</sup>	Region 3	42.98	0.045
Washington	Region 4 (King)	22.10 <sup>a</sup>	Region 2	35.87	0.000
West Virginia	South Central III	39.21 <sup>a</sup>	Southern I and III	49.84	0.008
Wisconsin	Northeastern	32.32	Northern	37.95	0.100
Wyoming	Judicial District 2	31.25 <sup>a</sup>	Judicial District 5	41.30	0.006

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T6. Marijuana Use in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	7.24	Region 2	9.09	0.124
Alaska	Gulf Coast	12.25 <sup>b</sup>	Urban	16.00	0.069
Arizona	Rural South	6.92 <sup>a</sup>	Pima	10.27	0.025
Arkansas	Areas 5 and 6	8.90	Area 9	10.79	0.208
California	Region 8	8.99 <sup>a</sup>	Region 1	15.66	0.001
Colorado	Region 4	9.99 <sup>b</sup>	Regions 2 and 7	13.09	0.085
Connecticut	Southwest	10.79 <sup>a</sup>	Eastern	15.23	0.023
Delaware	Sussex	9.15 <sup>a</sup>	Wilmington City	15.29	0.003
District of Columbia	Ward 4	10.02 <sup>a</sup>	Ward 2	19.93	0.000
Florida	Circuits 11 and 16	7.02 <sup>a</sup>	Circuit 2	17.32	0.000
Georgia	Region 1	8.02 <sup>a</sup>	Region 3	11.54	0.020
Hawaii	Honolulu	9.70 <sup>a</sup>	Hawaii Island	13.13	0.045
Idaho	Region 7	7.28 <sup>a</sup>	Region 4	11.47	0.004
Illinois	Region IV	8.33 <sup>a</sup>	Region I (Cook)	10.93	0.010
Indiana	Northeast	7.97 <sup>a</sup>	West	11.28	0.034
Iowa	Northwest	5.74 <sup>a</sup>	Central	10.65	0.002
Kansas	South Central	7.90 <sup>a</sup>	Kansas City Metro	12.53	0.003
Kentucky	Adanta, Cumberland River, and Lifeskills	7.05 <sup>a</sup>	Seven Counties	11.51	0.003
Louisiana	Region 4	8.16	Region 1	11.16	0.103
Maine	Aroostook/Downeast	10.20 <sup>a</sup>	Cumberland	15.08	0.014
Maryland	West	7.98 <sup>a</sup>	Baltimore City	13.30	0.004
Massachusetts	Northeast	11.42 <sup>a</sup>	Western	15.29	0.038
Michigan	Western	9.35 <sup>a</sup>	Detroit City	15.19	0.004
Minnesota	Regions 5 and 6	9.18 <sup>a</sup>	Region 7A (Hennepin)	15.02	0.001
Mississippi	Region 3	6.68 <sup>a</sup>	Region 7	9.50	0.047
Missouri	Southeast	8.44 <sup>a</sup>	Eastern (St. Louis City and County)	12.25	0.020
Montana	Region 2	9.10 <sup>a</sup>	Region 5	17.86	0.000

See notes at end of table.

(continued)

**Table T6. Marijuana Use in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 4	6.72 <sup>a</sup>	Region 6	9.90	0.015
Nevada	Clark	10.37	Washoe	12.53	0.163
New Hampshire	Southern 2	11.63	Northern	14.04	0.167
New Jersey	Northern	7.89 <sup>a</sup>	Southern	11.54	0.009
New Mexico	Region 4	8.96 <sup>a</sup>	Region 2	13.57	0.016
New York	Region 4	8.03 <sup>a</sup>	Region 3	18.19	0.000
North Carolina	North Central	9.33	Eastern	10.01	0.640
North Dakota	Lake Region and South Central	6.26 <sup>a</sup>	Southeast	11.22	0.000
Ohio	Boards 20, 32, 54, and 69	7.80 <sup>a</sup>	Board 31 (Hamilton)	13.77	0.000
Oklahoma	Southeast	7.00 <sup>a</sup>	Tulsa County	11.22	0.008
Oregon	Region 4	11.25 <sup>a</sup>	Region 1 (Multnomah)	17.63	0.002
Pennsylvania	Regions 5, 18, 23, 24, and 46	7.99 <sup>a</sup>	Region 36 (Philadelphia)	13.77	0.000
Rhode Island	Kent	13.73	Washington	16.07	0.235
South Carolina	Region 4	8.69	Region 2	9.84	0.390
South Dakota	Region 5	7.54 <sup>b</sup>	Region 4	10.49	0.075
Tennessee	Region 6	8.76 <sup>a</sup>	Region 4 (Davidson)	12.69	0.047
Texas	Region 11c (Hidalgo)	6.29 <sup>a</sup>	Region 7a	13.65	0.000
Utah	Central, Four Corners, San Juan, and Southwest	5.43 <sup>a</sup>	Salt Lake County	9.71	0.001
Vermont	Rural Southwest	12.70 <sup>a</sup>	Champlain Valley	18.04	0.004
Virginia	Region 2	8.13	Region 3	10.43	0.116
Washington	Region 5	9.50 <sup>a</sup>	Region 4 (King)	14.19	0.008
West Virginia	Northern A and B	7.34 <sup>a</sup>	Northern C and D	13.66	0.000
Wisconsin	Northern	8.52 <sup>a</sup>	Milwaukee	13.96	0.003
Wyoming	Judicial District 8	8.17 <sup>a</sup>	Judicial District 2	16.86	0.000

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T7. Cocaine Use in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	1.85	Region 3	2.31	0.351
Alaska	Rural	1.95 <sup>b</sup>	Urban	3.03	0.075
Arizona	Rural South	2.23 <sup>b</sup>	Pima	3.66	0.057
Arkansas	Areas 5 and 6	1.80	Areas 7, 12, and 13	2.55	0.176
California	Region 3	1.88 <sup>b</sup>	Region 2	2.90	0.082
Colorado	Region 4	2.28	Regions 2 and 7	3.08	0.207
Connecticut	Northwestern	2.35	Eastern	2.69	0.546
Delaware	Sussex	2.15	Wilmington City	3.03	0.246
District of Columbia	Ward 7	2.77 <sup>a</sup>	Ward 2	5.22	0.036
Florida	Circuit 5	1.96 <sup>a</sup>	Circuit 2	3.77	0.007
Georgia	Region 4	1.81	Region 3	2.31	0.356
Hawaii	Maui	1.78	Hawaii Island	2.08	0.556
Idaho	Region 3	1.66	Region 4	2.28	0.172
Illinois	Region II	1.97 <sup>a</sup>	Region I (Cook)	2.97	0.013
Indiana	Northeast	1.90	West	2.53	0.235
Iowa	Northwest	1.53	Central	2.35	0.110
Kansas	South Central	1.94 <sup>b</sup>	Kansas City Metro	3.05	0.073
Kentucky	Adanta, Cumberland River, and Lifeskills	1.81 <sup>b</sup>	Bluegrass, Comprehend, and North Key	2.83	0.052
Louisiana	Regions 7 and 8	1.97	Region 1	2.41	0.475
Maine	York	1.82 <sup>a</sup>	Cumberland	2.94	0.043
Maryland	Prince George's	1.77 <sup>a</sup>	Baltimore City	3.46	0.027
Massachusetts	Northeast	2.77 <sup>b</sup>	Boston	4.09	0.080
Michigan	Northern	1.76 <sup>a</sup>	Genesee	2.85	0.043
Minnesota	Region 7C	2.02	Region 7A (Hennepin)	2.67	0.246
Mississippi	Region 3	1.64	Region 7	2.12	0.336
Missouri	Southeast	2.08	Central	2.64	0.295
Montana	Region 1	1.87 <sup>a</sup>	Region 5	2.98	0.040

See notes at end of table.

(continued)

**Table T7. Cocaine Use in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 3	1.77 <sup>b</sup>	Region 6	2.74	0.074
Nevada	Rural	1.75	Washoe	2.14	0.392
New Hampshire	Southern 1 (Rockingham)	1.99 <sup>a</sup>	Central 1	3.14	0.048
New Jersey	Northern	1.82	Southern	2.18	0.431
New Mexico	Region 2	2.28	Region 3 (Bernalillo)	2.91	0.272
New York	Region 4	1.81 <sup>a</sup>	Region 3	4.02	0.002
North Carolina	South Central	2.00	Western	2.17	0.721
North Dakota	Badlands and West Central	1.36	Northeast	1.91	0.166
Ohio	Boards 8, 13, and 83	1.75 <sup>a</sup>	Board 31 (Hamilton)	3.03	0.033
Oklahoma	East Central	1.41 <sup>b</sup>	Tulsa County	2.36	0.071
Oregon	Region 4	1.53 <sup>a</sup>	Region 1 (Multnomah)	2.89	0.013
Pennsylvania	Regions 5, 18, 23, 24, and 46	1.67 <sup>a</sup>	Region 36 (Philadelphia)	3.25	0.005
Rhode Island	Kent	2.98	Providence	3.68	0.297
South Carolina	Region 3	2.02	Region 4	2.68	0.271
South Dakota	Region 6	1.32 <sup>b</sup>	Region 2	2.03	0.086
Tennessee	Region 6	2.14	Region 4 (Davidson)	3.30	0.104
Texas	Region 3bc	1.80 <sup>a</sup>	Region 7a	3.64	0.003
Utah	Central, Four Corners, San Juan, and Southwest	1.72	Salt Lake County	2.31	0.209
Vermont	Rural Southeast	2.24 <sup>a</sup>	Champlain Valley	3.65	0.015
Virginia	Region 2	1.99	Region 4	2.79	0.204
Washington	Region 5	2.16	Region 4 (King)	2.94	0.180
West Virginia	Northern A and B	2.28 <sup>a</sup>	Northern C and D	4.01	0.023
Wisconsin	Northern	1.78	Northeastern	2.35	0.276
Wyoming	Judicial District 8	1.72 <sup>a</sup>	Judicial District 2	2.97	0.024

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.



**Table T8. Nonmedical Use of Pain Relievers in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 3	4.67	Region 2	6.00	0.149
Alaska	Rural	4.76	Urban	5.84	0.253
Arizona	Rural South	4.21	Pima	5.93	0.131
Arkansas	Areas 7, 12, and 13	5.34	Areas 1 and 2	6.59	0.227
California	Region 6 (Santa Clara)	4.34 <sup>b</sup>	Region 1	6.15	0.057
Colorado	Region 1	5.47	Region 4	6.36	0.471
Connecticut	South Central	4.65	Northwestern	5.94	0.167
Delaware	Sussex	4.41	New Castle (excluding Wilmington City)	5.28	0.297
District of Columbia	Ward 7	2.48 <sup>a</sup>	Ward 2	4.78	0.002
Florida	Circuits 11 and 16	3.59 <sup>a</sup>	Circuit 1	7.92	0.000
Georgia	Region 3	3.81 <sup>a</sup>	Region 1	6.47	0.008
Hawaii	Honolulu	3.29	Maui	4.13	0.231
Idaho	Region 5	4.68 <sup>b</sup>	Region 6	6.49	0.097
Illinois	Region I (Cook)	4.12	Region V	4.56	0.456
Indiana	Northwest	4.92	Southeast	6.42	0.128
Iowa	Northwest	3.35	Central	4.57	0.132
Kansas	Northeast	4.14 <sup>b</sup>	Wichita (Sedgwick)	6.07	0.069
Kentucky	Kentucky River, Mountain, and Pathways	5.35	Bluegrass, Comprehend, and North Key	6.52	0.256
Louisiana	Region 1	4.32 <sup>a</sup>	Regions 2 and 9	6.67	0.026
Maine	Cumberland	4.11	York	5.17	0.210
Maryland	Prince George's	2.74 <sup>a</sup>	Northeast	4.71	0.009
Massachusetts	Northeast	4.67	Western	6.02	0.160
Michigan	Detroit City	4.31 <sup>a</sup>	Genesee	6.47	0.016
Minnesota	Region 7B (Ramsey)	3.93	Regions 5 and 6	4.39	0.586
Mississippi	Region 5	3.57	Region 7	4.46	0.262
Missouri	Eastern (St. Louis City and County)	4.52	Eastern (excluding St. Louis)	5.76	0.194
Montana	Region 4	4.37 <sup>a</sup>	Region 5	6.59	0.010

See notes at end of table.

(continued)

**Table T8. Nonmedical Use of Pain Relievers in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 6	3.96	Regions 1 and 2	4.62	0.414
Nevada	Washoe	5.74	Rural	6.20	0.641
New Hampshire	Southern 1 (Rockingham)	4.02 <sup>b</sup>	Central 2	5.61	0.078
New Jersey	Northern	3.46	Southern	4.11	0.332
New Mexico	Region 2	5.11	Region 3 (Bernalillo)	6.21	0.271
New York	Region 4	3.05 <sup>a</sup>	Region 15	6.06	0.001
North Carolina	North Central	4.53	Eastern	4.90	0.663
North Dakota	Lake Region and South Central	3.63	Northeast	4.56	0.258
Ohio	Boards 18 and 47	4.22 <sup>a</sup>	Boards 27, 71, and 73	5.88	0.034
Oklahoma	Northwest and Southwest	5.64	Tulsa County	6.90	0.263
Oregon	Region 3	4.72 <sup>b</sup>	Region 1 (Multnomah)	6.31	0.088
Pennsylvania	Regions 19, 26, 28, and 42	3.39 <sup>a</sup>	Regions 10, 14, 15, 27, 32, 43, and 44	5.26	0.012
Rhode Island	Kent	5.76	Bristol and Newport	5.90	0.896
South Carolina	Region 3	4.27	Region 1	5.30	0.238
South Dakota	Region 2	3.10	Region 4	4.01	0.215
Tennessee	Region 7 (Shelby)	4.20 <sup>a</sup>	Region 1	6.62	0.034
Texas	Region 6a	3.67 <sup>a</sup>	Region 7a	6.01	0.001
Utah	Central, Four Corners, San Juan, and Southwest	5.04 <sup>b</sup>	Weber, Morgan	7.02	0.095
Vermont	Rural Southeast	4.51	Champlain Valley	5.40	0.282
Virginia	Region 2	3.82 <sup>a</sup>	Region 3	5.51	0.045
Washington	Region 6	5.77	Region 4 (King)	6.53	0.464
West Virginia	South Central I	4.78 <sup>a</sup>	Northern C and D	7.26	0.022
Wisconsin	Northern	4.57	Milwaukee	4.92	0.705
Wyoming	Judicial District 8	4.50	Judicial District 7 (Natrona)	5.73	0.210

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T9. Alcohol Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	36.12 <sup>a</sup>	Region 4	43.91	0.017
Alaska	Rural	34.22 <sup>a</sup>	Urban	55.13	0.000
Arizona	Rural South	40.01 <sup>a</sup>	Pima	56.40	0.000
Arkansas	Areas 7, 12, and 13	36.92 <sup>a</sup>	Areas 1 and 2	46.56	0.015
California	Region 12	40.84 <sup>a</sup>	Region 4	58.07	0.000
Colorado	Region 4	48.01 <sup>a</sup>	Region 1	62.25	0.001
Connecticut	North Central	59.05	South Central	63.95	0.126
Delaware	Sussex	43.11 <sup>a</sup>	New Castle (excluding Wilmington City)	55.48	0.000
District of Columbia	Ward 8	44.03 <sup>a</sup>	Ward 3	78.65	0.000
Florida	Circuit 10	44.58 <sup>a</sup>	Circuit 20	62.85	0.000
Georgia	Region 1	36.07 <sup>a</sup>	Region 3	48.70	0.000
Hawaii	Honolulu	46.02	Maui	48.77	0.441
Idaho	Region 7	33.91 <sup>a</sup>	Region 4	56.48	0.000
Illinois	Region V	46.72 <sup>a</sup>	Region II	56.26	0.000
Indiana	East	40.24 <sup>a</sup>	Central	54.41	0.000
Iowa	Southwest	49.19 <sup>a</sup>	Northeast	60.09	0.006
Kansas	South Central	43.23 <sup>a</sup>	Kansas City Metro	58.13	0.000
Kentucky	Kentucky River, Mountain, and Pathways	28.83 <sup>a</sup>	Seven Counties	51.89	0.000
Louisiana	Regions 7 and 8	41.10 <sup>a</sup>	Region 10 (Jefferson)	55.95	0.000
Maine	Central	45.77 <sup>a</sup>	Cumberland	60.94	0.000
Maryland	Prince George's	42.72 <sup>a</sup>	North Central	61.79	0.000
Massachusetts	Boston	56.16 <sup>a</sup>	Metrowest	63.60	0.031
Michigan	Detroit City	39.72 <sup>a</sup>	Washtenaw	63.30	0.000
Minnesota	Regions 1 and 2	55.64 <sup>a</sup>	Region 7C	65.32	0.011
Mississippi	Region 5	31.16 <sup>a</sup>	Region 4	43.79	0.001
Missouri	Southeast	40.26 <sup>a</sup>	Eastern (excluding St. Louis)	55.50	0.000
Montana	Region 2	51.90 <sup>a</sup>	Region 4	60.09	0.023

See notes at end of table.

(continued)

**Table T9. Alcohol Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 4	46.55 <sup>a</sup>	Region 6	56.52	0.004
Nevada	Clark	48.92	Rural	52.26	0.295
New Hampshire	Central 1	57.15 <sup>b</sup>	Southern 1 (Rockingham)	63.48	0.072
New Jersey	Southern	53.74	Central	58.69	0.169
New Mexico	Region 1	40.74 <sup>a</sup>	Region 3 (Bernalillo)	51.91	0.000
New York	Region 1	42.27 <sup>a</sup>	Region 5	63.92	0.000
North Carolina	South Central	40.58 <sup>b</sup>	Western	46.09	0.083
North Dakota	Lake Region and South Central	48.95 <sup>a</sup>	Southeast	66.30	0.000
Ohio	Boards 27, 71, and 73	36.21 <sup>a</sup>	Boards 28, 43, and 67	56.62	0.000
Oklahoma	Southeast	34.94 <sup>a</sup>	Tulsa County	49.07	0.000
Oregon	Region 4	52.12 <sup>b</sup>	Region 1 (Multnomah)	59.39	0.053
Pennsylvania	Regions 5, 18, 23, 24, and 46	43.01 <sup>a</sup>	Regions 7, 13, 20, and 33	61.52	0.000
Rhode Island	Providence	58.70 <sup>a</sup>	Washington	67.11	0.005
South Carolina	Region 1	39.62 <sup>a</sup>	Region 4	48.54	0.009
South Dakota	Region 7	56.25 <sup>a</sup>	Region 2	63.32	0.039
Tennessee	Region 6	34.40 <sup>a</sup>	Region 4 (Davidson)	47.39	0.003
Texas	Region 11c (Hidalgo)	37.15 <sup>a</sup>	Region 7a	56.89	0.000
Utah	Utah County	21.03 <sup>a</sup>	Salt Lake County	36.54	0.000
Vermont	Rural Northeast	52.35 <sup>a</sup>	Champlain Valley	62.48	0.001
Virginia	Region 3	42.89 <sup>a</sup>	Region 2	55.93	0.000
Washington	Region 2	43.46 <sup>a</sup>	Region 4 (King)	59.71	0.000
West Virginia	Southern II	25.68 <sup>a</sup>	Northern A and B	42.14	0.000
Wisconsin	Western	60.39 <sup>a</sup>	Southeastern	69.53	0.006
Wyoming	Judicial District 3	51.74 <sup>b</sup>	Judicial District 1 (Laramie)	58.44	0.085

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T10. Binge Alcohol Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	16.58 <sup>b</sup>	Region 4	20.23	0.064
Alaska	Gulf Coast	20.36	Urban	22.07	0.463
Arizona	Rural South	21.82	Pima	25.93	0.151
Arkansas	Area 9	18.06	Areas 3 and 4	21.06	0.184
California	Region 6 (Santa Clara)	17.75 <sup>a</sup>	Region 15	23.44	0.004
Colorado	Region 3	23.63	Region 1	27.79	0.120
Connecticut	North Central	24.47	Northwestern	26.67	0.391
Delaware	Sussex	19.14	New Castle (excluding Wilmington City)	22.45	0.110
District of Columbia	Ward 7	19.70 <sup>a</sup>	Ward 2	38.85	0.000
Florida	Circuits 11 and 16	20.04 <sup>a</sup>	Circuit 2	26.85	0.002
Georgia	Region 1	18.14	Region 2	21.19	0.187
Hawaii	Honolulu	21.50	Hawaii Island	23.97	0.294
Idaho	Region 7	17.17 <sup>a</sup>	Region 2	26.26	0.002
Illinois	Region V	24.99	Region I (Cook)	26.60	0.354
Indiana	East	20.37 <sup>a</sup>	West	26.31	0.021
Iowa	Northwest	25.28 <sup>a</sup>	Northeast	31.05	0.025
Kansas	South Central	23.33 <sup>b</sup>	Northeast	28.42	0.056
Kentucky	Kentucky River, Mountain, and Pathways	17.85 <sup>a</sup>	Seven Counties	24.92	0.006
Louisiana	Regions 7 and 8	21.74 <sup>b</sup>	Region 3	26.66	0.061
Maine	Midcoast	20.20	Cumberland	23.79	0.145
Maryland	Prince George's	17.02 <sup>a</sup>	Northeast	22.87	0.029
Massachusetts	Northeast	24.09 <sup>a</sup>	Western	29.23	0.045
Michigan	Detroit City	21.73 <sup>a</sup>	Pathways	30.80	0.001
Minnesota	Region 7B (Ramsey)	25.81	Regions 5 and 6	29.85	0.158
Mississippi	Region 1	17.01	Region 4	20.39	0.133
Missouri	Southwest	20.66 <sup>a</sup>	Eastern (excluding St. Louis)	27.48	0.007
Montana	Region 1	26.06	Region 4	29.90	0.177

See notes at end of table.

(continued)

**Table T10. Binge Alcohol Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Regions 1 and 2	23.39 <sup>b</sup>	Region 5	28.50	0.058
Nevada	Clark	23.12	Washoe	25.78	0.233
New Hampshire	Southern 2	23.45	Northern	27.10	0.137
New Jersey	Central	20.92	Southern	23.57	0.258
New Mexico	Region 1	19.29	Region 3 (Bernalillo)	22.42	0.128
New York	Region 4	18.66 <sup>a</sup>	Region 3	28.51	0.000
North Carolina	South Central	18.81	Western	21.04	0.272
North Dakota	Lake Region and South Central	28.66 <sup>b</sup>	Southeast	33.90	0.059
Ohio	Boards 27, 71, and 73	19.24 <sup>a</sup>	Boards 22, 74, and 87	26.69	0.004
Oklahoma	East Central	18.61	Northwest and Southwest	22.58	0.104
Oregon	Region 2	19.36	Region 5	23.07	0.138
Pennsylvania	Regions 5, 18, 23, 24, and 46	19.96 <sup>a</sup>	Region 1 (Allegheny)	28.04	0.000
Rhode Island	Kent	26.52	Washington	29.03	0.369
South Carolina	Region 1	18.32 <sup>a</sup>	Region 4	23.12	0.024
South Dakota	Region 7	24.89 <sup>a</sup>	Region 2	31.02	0.021
Tennessee	Region 1	17.67	Region 5	19.10	0.522
Texas	Region 4	21.14 <sup>a</sup>	Region 11abd	27.44	0.015
Utah	Utah County	12.65 <sup>a</sup>	Weber, Morgan	17.46	0.020
Vermont	Rural Southeast	21.90 <sup>b</sup>	Champlain Valley	26.22	0.050
Virginia	Region 2	20.65 <sup>b</sup>	Region 1	24.78	0.071
Washington	Region 5	21.68	Region 3	23.99	0.365
West Virginia	Southern II	16.22 <sup>a</sup>	Northern C and D	24.86	0.001
Wisconsin	Northern	27.69 <sup>b</sup>	Northeastern	32.78	0.089
Wyoming	Judicial District 8	23.44 <sup>b</sup>	Judicial District 2	28.40	0.080

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Binge Alcohol Use is defined as drinking five or more drinks on the same occasion (i.e., at the same time or within a couple of hours of each other) on at least 1 day in the past 30 days.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T11. Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	44.09	Region 3	47.47	0.236
Alaska	Gulf Coast	35.87	Rural	39.99	0.196
Arizona	Rural North	39.02	Rural South	43.48	0.168
Arkansas	Areas 5 and 6	39.34 <sup>a</sup>	Areas 7, 12, and 13	46.37	0.018
California	Region 1	36.71 <sup>a</sup>	Region 12	48.75	0.000
Colorado	Regions 5 and 6	36.66	Region 4	40.51	0.228
Connecticut	Northwestern	36.08 <sup>b</sup>	North Central	41.06	0.083
Delaware	New Castle (excluding Wilmington City)	37.99 <sup>a</sup>	Wilmington City	48.34	0.000
District of Columbia	Ward 3	33.08 <sup>a</sup>	Ward 7	50.46	0.000
Florida	Circuit 18	40.15 <sup>a</sup>	Circuits 11 and 16	52.95	0.000
Georgia	Region 1	44.09	Region 3	47.97	0.156
Hawaii	Honolulu	39.29	Maui	41.16	0.510
Idaho	Region 4	37.84 <sup>a</sup>	Region 7	43.72	0.040
Illinois	Region II	35.83 <sup>a</sup>	Region I (Cook)	41.54	0.000
Indiana	West	36.17 <sup>b</sup>	Central	41.18	0.070
Iowa	North Central	34.71	Northwest	37.17	0.390
Kansas	Kansas City Metro	37.94	Wichita (Sedgwick)	40.90	0.258
Kentucky	Bluegrass, Comprehend, and North Key	40.25	Four Rivers and Pennyroyal	43.18	0.294
Louisiana	Region 3	39.20 <sup>a</sup>	Regions 7 and 8	46.67	0.016
Maine	York	36.19	Midcoast	40.52	0.161
Maryland	North Central	39.07 <sup>a</sup>	Baltimore City	51.34	0.000
Massachusetts	Metrowest	31.99 <sup>a</sup>	Boston	37.54	0.047
Michigan	Western	33.11 <sup>a</sup>	Detroit City	51.09	0.000
Minnesota	Region 7C	32.66	Region 7B (Ramsey)	36.98	0.131
Mississippi	Region 7	44.58 <sup>b</sup>	Region 2	49.83	0.073
Missouri	Eastern (excluding St. Louis)	37.00 <sup>b</sup>	Northwest (Jackson)	42.49	0.073
Montana	Region 4	33.48 <sup>a</sup>	Region 2	39.25	0.047

See notes at end of table.

(continued)

**Table T11. Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 5	34.49	Region 6	37.20	0.262
Nevada	Rural	40.57	Washoe	41.84	0.660
New Hampshire	Northern	30.47 <sup>b</sup>	Southern 2	35.38	0.060
New Jersey	Southern	39.41 <sup>a</sup>	Metropolitan	46.89	0.008
New Mexico	Region 3 (Bernalillo)	44.73 <sup>a</sup>	Region 2	51.02	0.034
New York	Region 14	35.65 <sup>a</sup>	Region 1	53.19	0.000
North Carolina	North Central	44.21	South Central	45.10	0.743
North Dakota	North Central and Northwest	32.41	Badlands and West Central	35.10	0.309
Ohio	Boards 3, 52, and 85	34.39 <sup>a</sup>	Board 77 (Summit)	41.18	0.023
Oklahoma	Northeast	40.06 <sup>a</sup>	East Central	46.46	0.049
Oregon	Region 4	37.61	Region 2	39.74	0.467
Pennsylvania	Region 1 (Allegheny)	33.39 <sup>a</sup>	Region 36 (Philadelphia)	42.91	0.000
Rhode Island	Bristol and Newport	36.87	Providence	38.35	0.593
South Carolina	Region 2	40.72 <sup>a</sup>	Region 3	46.75	0.038
South Dakota	Region 3	32.26 <sup>b</sup>	Region 6	37.79	0.057
Tennessee	Region 1	39.69 <sup>a</sup>	Region 7 (Shelby)	46.16	0.044
Texas	Region 7bcd	39.02 <sup>a</sup>	Region 10	51.31	0.000
Utah	Salt Lake County	45.40 <sup>b</sup>	Utah County	50.44	0.060
Vermont	Champlain Valley	32.20	Rural Northeast	35.79	0.152
Virginia	Region 1	42.37	Region 4	45.02	0.354
Washington	Region 6	36.35	Region 2	40.69	0.145
West Virginia	Northern A and B	39.84	South Central I	44.46	0.167
Wisconsin	Northeastern	28.47 <sup>a</sup>	Milwaukee	36.14	0.005
Wyoming	Judicial District 6	34.45 <sup>b</sup>	Judicial District 1 (Laramie)	39.32	0.095

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.



**Table T12. Alcohol Use in Past Month among Persons Aged 12 to 20, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	23.27	Region 2	27.26	0.127
Alaska	Rural	18.75 <sup>a</sup>	Urban	29.43	0.000
Arizona	Rural South	23.12 <sup>a</sup>	Pima	29.88	0.038
Arkansas	Areas 7, 12, and 13	24.21 <sup>a</sup>	Areas 1 and 2	31.16	0.036
California	Region 11 (Los Angeles)	22.70 <sup>a</sup>	Region 1	30.90	0.001
Colorado	Region 4	29.97	Region 1	35.01	0.141
Connecticut	North Central	29.97 <sup>b</sup>	Northwestern	34.88	0.093
Delaware	Sussex	25.87 <sup>a</sup>	New Castle (excluding Wilmington City)	31.35	0.025
District of Columbia	Ward 7	18.85 <sup>a</sup>	Ward 2	53.21	0.000
Florida	Circuits 11 and 16	23.30 <sup>a</sup>	Circuit 2	33.38	0.000
Georgia	Region 3	23.20	Region 2	25.08	0.444
Hawaii	Maui	23.04	Hawaii Island	24.16	0.701
Idaho	Region 7	19.61 <sup>a</sup>	Region 2	34.23	0.000
Illinois	Region V	27.93	Region IV	30.40	0.288
Indiana	Northeast	25.41 <sup>a</sup>	West	33.51	0.006
Iowa	Southeast	29.86 <sup>a</sup>	Northeast	38.32	0.007
Kansas	South Central	27.79 <sup>a</sup>	Kansas City Metro	35.18	0.013
Kentucky	Kentucky River, Mountain, and Pathways	24.16 <sup>a</sup>	Seven Counties	30.08	0.048
Louisiana	Region 1	25.79 <sup>b</sup>	Region 10 (Jefferson)	31.35	0.099
Maine	Western	29.37	Penquis	34.53	0.110
Maryland	Prince George's	19.94 <sup>a</sup>	North Central	30.68	0.000
Massachusetts	Boston	32.44	Western	34.17	0.589
Michigan	Detroit City	19.05 <sup>a</sup>	Pathways	34.19	0.000
Minnesota	Region 7B (Ramsey)	28.30	Regions 5 and 6	33.49	0.100
Mississippi	Region 5	20.54 <sup>a</sup>	Region 7	27.22	0.022
Missouri	Northwest (Jackson)	28.07 <sup>a</sup>	Eastern (excluding St. Louis)	35.61	0.032
Montana	Region 2	32.43	Region 4	36.35	0.192

See notes at end of table.

(continued)

**Table T12. Alcohol Use in Past Month among Persons Aged 12 to 20, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 6	31.04 <sup>a</sup>	Region 5	37.00	0.018
Nevada	Clark	24.19 <sup>a</sup>	Washoe	29.45	0.036
New Hampshire	Southern 2	31.54 <sup>a</sup>	Northern	36.99	0.049
New Jersey	Metropolitan	29.61	Southern	32.62	0.293
New Mexico	Region 1	24.84 <sup>a</sup>	Region 5	30.57	0.049
New York	Region 4	24.61 <sup>a</sup>	Region 12	39.06	0.000
North Carolina	North Central	22.46	Western	24.93	0.324
North Dakota	Lake Region and South Central	30.84 <sup>a</sup>	Southeast	44.13	0.000
Ohio	Boards 27, 71, and 73	25.22 <sup>a</sup>	Boards 28, 43, and 67	34.32	0.002
Oklahoma	Oklahoma County	23.71	Northwest and Southwest	28.73	0.112
Oregon	Region 2	28.53	Region 5	31.09	0.429
Pennsylvania	Region 36 (Philadelphia)	22.90 <sup>a</sup>	Region 1 (Allegheny)	33.86	0.000
Rhode Island	Kent	32.99 <sup>a</sup>	Washington	39.80	0.036
South Carolina	Region 3	19.86 <sup>a</sup>	Region 2	25.24	0.037
South Dakota	Region 7	31.37 <sup>a</sup>	Region 3	38.72	0.021
Tennessee	Region 7 (Shelby)	20.92	Region 1	25.22	0.146
Texas	Region 11c (Hidalgo)	23.70 <sup>a</sup>	Region 1	31.61	0.010
Utah	Utah County	14.53 <sup>a</sup>	Salt Lake County	22.95	0.002
Vermont	Rural Southeast	34.04 <sup>b</sup>	Champlain Valley	38.82	0.065
Virginia	Region 4	25.31 <sup>b</sup>	Region 1	30.42	0.063
Washington	Region 2	25.76 <sup>a</sup>	Region 1	33.09	0.029
West Virginia	Southern II	23.28 <sup>a</sup>	Northern C and D	33.66	0.002
Wisconsin	Milwaukee	32.32 <sup>a</sup>	Northeastern	39.75	0.015
Wyoming	Judicial District 4	31.47 <sup>a</sup>	Judicial District 2	39.16	0.034

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T13. Binge Alcohol Use in Past Month among Persons Aged 12 to 20, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	15.16	Region 4	17.34	0.309
Alaska	Rural	14.85	Southeast	19.10	0.119
Arizona	Maricopa	18.20 <sup>b</sup>	Pima	22.69	0.051
Arkansas	Areas 7, 12, and 13	15.01 <sup>a</sup>	Areas 1 and 2	20.41	0.035
California	Region 11 (Los Angeles)	13.78 <sup>a</sup>	Region 1	22.06	0.000
Colorado	Region 4	20.32	Region 1	22.50	0.456
Connecticut	North Central	19.03 <sup>a</sup>	Northwestern	24.09	0.037
Delaware	Wilmington City	13.05 <sup>a</sup>	New Castle (excluding Wilmington City)	20.71	0.001
District of Columbia	Ward 7	8.72 <sup>a</sup>	Ward 2	39.01	0.000
Florida	Circuits 11 and 16	13.16 <sup>a</sup>	Circuit 2	22.92	0.000
Georgia	Region 3	14.67	Region 2	16.38	0.407
Hawaii	Honolulu	16.48	Hawaii Island	18.94	0.253
Idaho	Region 7	15.65 <sup>a</sup>	Region 2	26.18	0.001
Illinois	Region I (Cook)	18.23 <sup>a</sup>	Region IV	22.22	0.024
Indiana	Central	16.25 <sup>a</sup>	West	26.29	0.000
Iowa	Southeast	22.41 <sup>a</sup>	Northeast	29.31	0.017
Kansas	Wichita (Sedgwick)	22.26 <sup>a</sup>	Northeast	28.42	0.042
Kentucky	Kentucky River, Mountain, and Pathways	17.29	Seven Counties	20.46	0.217
Louisiana	Region 1	15.54	Regions 5 and 6	19.55	0.152
Maine	Midcoast	19.11 <sup>b</sup>	Penquis	24.23	0.078
Maryland	Prince George's	10.81 <sup>a</sup>	Northeast	19.75	0.000
Massachusetts	Boston	20.73 <sup>a</sup>	Western	27.55	0.023
Michigan	Detroit City	10.96 <sup>a</sup>	Pathways	26.17	0.000
Minnesota	Region 7B (Ramsey)	18.96 <sup>a</sup>	Regions 1 and 2	26.17	0.018
Mississippi	Region 5	12.90 <sup>a</sup>	Region 7	19.37	0.008
Missouri	Northwest (Jackson)	18.57 <sup>a</sup>	Eastern (excluding St. Louis)	25.37	0.019
Montana	Region 2	24.26	Region 5	28.23	0.168

See notes at end of table.

(continued)

**Table T13. Binge Alcohol Use in Past Month among Persons Aged 12 to 20, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 6	20.98 <sup>a</sup>	Region 5	28.62	0.001
Nevada	Clark	15.75 <sup>a</sup>	Washoe	21.92	0.007
New Hampshire	Southern 1 (Rockingham)	21.88 <sup>a</sup>	Northern	28.86	0.012
New Jersey	Metropolitan	17.26 <sup>b</sup>	Southern	21.36	0.079
New Mexico	Region 1	18.16	Region 5	20.60	0.320
New York	Region 1	14.20 <sup>a</sup>	Region 8	27.42	0.000
North Carolina	North Central	13.88	Western	16.43	0.192
North Dakota	Lake Region and South Central	24.70 <sup>a</sup>	Northeast	33.26	0.008
Ohio	Board 57 (Montgomery)	17.61 <sup>a</sup>	Boards 22, 74, and 87	26.69	0.001
Oklahoma	Oklahoma County	16.43	Northwest and Southwest	20.21	0.156
Oregon	Region 2	18.02	Region 5	20.80	0.320
Pennsylvania	Region 36 (Philadelphia)	14.35 <sup>a</sup>	Regions 6, 12, 16, 31, 35, 39, 45, and 47	25.86	0.000
Rhode Island	Kent	22.48 <sup>a</sup>	Washington	29.78	0.014
South Carolina	Region 3	12.92 <sup>b</sup>	Region 2	16.71	0.063
South Dakota	Region 7	21.25 <sup>a</sup>	Region 5	27.59	0.030
Tennessee	Region 7 (Shelby)	12.13 <sup>b</sup>	Region 3	16.29	0.053
Texas	Region 6a	14.56 <sup>a</sup>	Region 1	22.40	0.000
Utah	Utah County	11.36 <sup>a</sup>	Weber, Morgan	17.22	0.017
Vermont	Rural Southeast	23.40 <sup>a</sup>	Champlain Valley	28.88	0.024
Virginia	Region 4	15.81 <sup>a</sup>	Region 1	22.18	0.007
Washington	Region 4 (King)	18.51	Region 1	22.28	0.131
West Virginia	Southern I and III	16.64 <sup>a</sup>	Northern C and D	27.13	0.000
Wisconsin	Milwaukee	20.86 <sup>a</sup>	Western	29.79	0.002
Wyoming	Judicial District 1 (Laramie)	22.59 <sup>b</sup>	Judicial District 2	28.02	0.088

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Binge Alcohol Use is defined as drinking five or more drinks on the same occasion (i.e., at the same time or within a couple of hours of each other) on at least 1 day in the past 30 days.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T14. Cigarette Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 3	25.55	Region 2	29.06	0.139
Alaska	Southeast	24.64 <sup>b</sup>	Rural	29.59	0.080
Arizona	Maricopa	22.92	Rural North	24.58	0.417
Arkansas	Areas 1 and 2	26.12 <sup>a</sup>	Areas 3 and 4	31.33	0.038
California	Region 6 (Santa Clara)	16.10 <sup>a</sup>	Region 1	25.88	0.000
Colorado	Regions 2 and 7	22.54	Region 4	24.79	0.291
Connecticut	Southwest	20.20 <sup>a</sup>	Eastern	25.35	0.026
Delaware	New Castle (excluding Wilmington City)	22.47 <sup>a</sup>	Sussex	29.05	0.002
District of Columbia	Ward 4	19.41 <sup>a</sup>	Ward 8	31.02	0.000
Florida	Circuits 11 and 16	19.59 <sup>a</sup>	Circuit 14	30.54	0.000
Georgia	Region 3	21.67 <sup>a</sup>	Region 1	27.80	0.007
Hawaii	Honolulu	19.28	Hawaii Island	21.46	0.288
Idaho	Region 7	19.01 <sup>a</sup>	Region 1	24.75	0.009
Illinois	Region II	24.47 <sup>a</sup>	Region V	30.21	0.001
Indiana	Northeast	25.15 <sup>a</sup>	Southwest	31.05	0.027
Iowa	Southeast	24.87	Central	28.56	0.123
Kansas	South Central	25.32 <sup>b</sup>	Southeast	30.62	0.053
Kentucky	Seven Counties	27.78 <sup>a</sup>	Kentucky River, Mountain, and Pathways	34.21	0.009
Louisiana	Regions 2 and 9	25.55 <sup>a</sup>	Regions 5 and 6	31.53	0.010
Maine	Midcoast	25.41 <sup>b</sup>	Western	30.31	0.054
Maryland	Montgomery	16.45 <sup>a</sup>	Baltimore City	28.76	0.000
Massachusetts	Metrowest	19.03 <sup>a</sup>	Boston	25.72	0.002
Michigan	Washtenaw	23.34 <sup>a</sup>	Pathways	31.18	0.001
Minnesota	Region 7A (Hennepin)	24.15	Regions 3 and 4	27.78	0.100
Mississippi	Region 4	23.57 <sup>a</sup>	Region 7	29.68	0.011
Missouri	Eastern (St. Louis City and County)	27.20 <sup>a</sup>	Southeast	34.31	0.007
Montana	Region 3	25.23	Region 5	27.66	0.296

See notes at end of table.

(continued)

**Table T14. Cigarette Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 6	24.33	Region 3	26.68	0.290
Nevada	Washoe	24.89	Rural	28.83	0.104
New Hampshire	Southern 1 (Rockingham)	20.52 <sup>a</sup>	Central 1	26.35	0.007
New Jersey	Metropolitan	20.77	Southern	23.30	0.210
New Mexico	Region 2	21.88 <sup>a</sup>	Region 4	29.72	0.001
New York	Region 6	19.73 <sup>a</sup>	Region 12	30.78	0.000
North Carolina	South Central	24.89 <sup>b</sup>	Eastern	28.67	0.097
North Dakota	Lake Region and South Central	24.19	Northeast	27.79	0.118
Ohio	Boards 28, 43, and 67	25.34 <sup>a</sup>	Boards 27, 71, and 73	33.09	0.001
Oklahoma	Central	27.08 <sup>a</sup>	Southeast	33.71	0.010
Oregon	Region 2	20.62 <sup>a</sup>	Region 4	26.25	0.011
Pennsylvania	Regions 7, 13, 20, and 33	23.67 <sup>a</sup>	Regions 10, 14, 15, 27, 32, 43, and 44	29.18	0.005
Rhode Island	Washington	22.40	Kent	25.67	0.164
South Carolina	Region 4	28.26	Region 3	31.13	0.248
South Dakota	Region 3	25.56	Region 4	29.40	0.132
Tennessee	Region 7 (Shelby)	25.08 <sup>a</sup>	Region 1	34.49	0.001
Texas	Region 3a	23.35 <sup>a</sup>	Region 5	31.33	0.000
Utah	Utah County	15.93 <sup>a</sup>	Salt Lake County	21.52	0.003
Vermont	Champlain Valley	22.86 <sup>a</sup>	Rural Southwest	27.21	0.040
Virginia	Region 2	18.63 <sup>a</sup>	Region 3	29.28	0.000
Washington	Region 4 (King)	20.18 <sup>a</sup>	Region 6	25.82	0.009
West Virginia	South Central III	30.83	South Central II	35.35	0.140
Wisconsin	Southeastern	25.67 <sup>a</sup>	Milwaukee	30.27	0.044
Wyoming	Judicial District 2	25.94	Judicial District 7 (Natrona)	29.67	0.138

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T15. Tobacco Product Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 3	31.03	Region 1	35.37	0.106
Alaska	Southeast	29.73 <sup>a</sup>	Rural	38.59	0.007
Arizona	Maricopa	27.06	Rural North	28.73	0.475
Arkansas	Areas 1 and 2	32.33 <sup>a</sup>	Areas 3 and 4	38.04	0.041
California	Region 6 (Santa Clara)	18.29 <sup>a</sup>	Region 1	31.08	0.000
Colorado	Regions 2 and 7	26.31	Region 4	30.27	0.101
Connecticut	Southwest	23.60 <sup>a</sup>	Eastern	29.37	0.018
Delaware	New Castle (excluding Wilmington City)	26.31 <sup>a</sup>	Sussex	32.70	0.005
District of Columbia	Ward 4	22.64 <sup>a</sup>	Ward 8	33.69	0.000
Florida	Circuits 11 and 16	22.15 <sup>a</sup>	Circuit 14	36.89	0.000
Georgia	Region 3	26.54 <sup>a</sup>	Region 1	36.09	0.000
Hawaii	Honolulu	22.01	Hawaii Island	24.12	0.341
Idaho	Region 7	22.24 <sup>a</sup>	Region 1	29.98	0.002
Illinois	Region II	28.97 <sup>a</sup>	Region IV	35.61	0.000
Indiana	Northeast	29.12 <sup>a</sup>	Southeast	36.83	0.008
Iowa	North Central	29.74	Central	34.38	0.101
Kansas	West	31.02 <sup>b</sup>	Southeast	36.84	0.060
Kentucky	Bluegrass, Comprehend, and North Key	35.20 <sup>a</sup>	Kentucky River, Mountain, and Pathways	42.48	0.007
Louisiana	Regions 2 and 9	30.79 <sup>a</sup>	Regions 5 and 6	37.26	0.012
Maine	Cumberland	28.92 <sup>a</sup>	Western	35.53	0.012
Maryland	Montgomery	19.07 <sup>a</sup>	Baltimore City	32.58	0.000
Massachusetts	Metrowest	23.56 <sup>a</sup>	Western	29.93	0.006
Michigan	Washtenaw	27.62 <sup>a</sup>	Pathways	36.44	0.001
Minnesota	Region 7A (Hennepin)	28.78 <sup>a</sup>	Regions 3 and 4	34.19	0.024
Mississippi	Region 4	29.14 <sup>a</sup>	Region 7	37.22	0.002
Missouri	Eastern (St. Louis City and County)	31.43 <sup>a</sup>	Southeast	40.57	0.001
Montana	Region 3	32.66	Region 1	35.88	0.263

See notes at end of table.

(continued)

**Table T15. Tobacco Product Use in Past Month among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 6	28.42	Regions 1 and 2	31.21	0.296
Nevada	Washoe	28.66 <sup>a</sup>	Rural	34.32	0.029
New Hampshire	Southern 1 (Rockingham)	24.98 <sup>a</sup>	Central 1	30.98	0.013
New Jersey	Metropolitan	23.82 <sup>a</sup>	Southern	28.34	0.047
New Mexico	Region 2	24.96 <sup>a</sup>	Region 4	35.11	0.000
New York	Region 6	22.16 <sup>a</sup>	Region 12	36.01	0.000
North Carolina	South Central	30.36 <sup>b</sup>	Eastern	34.61	0.093
North Dakota	Lake Region and South Central	30.72	Northeast	33.86	0.231
Ohio	Boards 28, 43, and 67	29.94 <sup>a</sup>	Boards 27, 71, and 73	39.24	0.000
Oklahoma	Central	31.84 <sup>a</sup>	Southeast	40.01	0.006
Oregon	Region 2	24.64 <sup>a</sup>	Region 4	31.35	0.006
Pennsylvania	Regions 7, 13, 20, and 33	27.98 <sup>a</sup>	Regions 2, 3, 8, and 9	35.79	0.000
Rhode Island	Washington	27.51	Kent	30.79	0.185
South Carolina	Region 4	31.69	Region 3	35.20	0.159
South Dakota	Region 1	31.36	Region 4	35.60	0.140
Tennessee	Region 7 (Shelby)	29.29 <sup>a</sup>	Region 1	41.23	0.000
Texas	Region 11c (Hidalgo)	26.24 <sup>a</sup>	Region 5	38.39	0.000
Utah	Utah County	17.31 <sup>a</sup>	Weber, Morgan	23.65	0.005
Vermont	Champlain Valley	27.18 <sup>a</sup>	Rural Southwest	33.61	0.008
Virginia	Region 2	23.15 <sup>a</sup>	Region 3	34.86	0.000
Washington	Region 4 (King)	23.65 <sup>a</sup>	Region 6	29.96	0.008
West Virginia	South Central III	37.54 <sup>b</sup>	South Central II	43.06	0.076
Wisconsin	Southern	29.80 <sup>a</sup>	Milwaukee	35.20	0.044
Wyoming	Judicial District 2	31.41 <sup>a</sup>	Judicial District 7 (Natrona)	37.42	0.036

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Tobacco Products include cigarettes, smokeless tobacco (i.e., chewing tobacco or snuff), cigars, or pipe tobacco.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.



**Table T16. Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	70.13	Region 4	72.46	0.275
Alaska	Rural	64.24 <sup>a</sup>	Southeast	73.83	0.000
Arizona	Rural North	72.14 <sup>a</sup>	Maricopa	76.80	0.020
Arkansas	Areas 5 and 6	70.02	Area 9	73.19	0.153
California	Region 1	72.96 <sup>a</sup>	Region 4	80.60	0.000
Colorado	Region 3	73.62	Regions 2 and 7	76.65	0.122
Connecticut	Eastern	73.80	South Central	77.14	0.129
Delaware	Sussex	71.76 <sup>a</sup>	New Castle (excluding Wilmington City)	77.04	0.009
District of Columbia	Ward 8	74.31 <sup>a</sup>	Ward 3	80.74	0.002
Florida	Circuit 14	71.59 <sup>a</sup>	Circuits 11 and 16	80.71	0.000
Georgia	Region 1	70.63 <sup>a</sup>	Region 3	78.29	0.000
Hawaii	Honolulu	73.92	Hawaii Island	75.65	0.429
Idaho	Region 1	72.44	Region 2	74.88	0.299
Illinois	Region IV	69.79 <sup>a</sup>	Region I (Cook)	76.06	0.000
Indiana	Southwest	66.57 <sup>b</sup>	Northeast	71.68	0.069
Iowa	Northeast	69.09	North Central	70.86	0.444
Kansas	Northeast	70.16	Kansas City Metro	72.37	0.294
Kentucky	Kentucky River, Mountain, and Pathways	62.72 <sup>a</sup>	Seven Counties	69.75	0.005
Louisiana	Regions 5 and 6	69.76 <sup>a</sup>	Region 1	75.19	0.026
Maine	Western	68.56 <sup>a</sup>	Cumberland	73.91	0.021
Maryland	South	72.12 <sup>a</sup>	Montgomery	78.48	0.006
Massachusetts	Southeast	73.84 <sup>a</sup>	Metrowest	78.45	0.030
Michigan	Bay	68.47 <sup>a</sup>	Washtenaw	75.74	0.001
Minnesota	Regions 3 and 4	68.61 <sup>a</sup>	Region 7A (Hennepin)	73.80	0.023
Mississippi	Region 1	70.46	Region 2	73.74	0.139
Missouri	Southeast	66.19 <sup>a</sup>	Eastern (St. Louis City and County)	73.59	0.003
Montana	Region 1	69.20 <sup>b</sup>	Region 5	73.99	0.056

See notes at end of table.

(continued)

**Table T16. Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 4	69.58	Region 5	71.51	0.409
Nevada	Rural	70.60 <sup>a</sup>	Washoe	75.33	0.041
New Hampshire	Central 1	70.42 <sup>b</sup>	Southern 1 (Rockingham)	74.68	0.060
New Jersey	Southern	73.30 <sup>b</sup>	Metropolitan	76.81	0.095
New Mexico	Region 1	71.58 <sup>a</sup>	Region 2	78.60	0.001
New York	Region 15	70.80 <sup>a</sup>	Region 3	80.34	0.000
North Carolina	Western	70.42	North Central	72.30	0.384
North Dakota	Badlands and West Central	66.97	Northeast	69.53	0.291
Ohio	Boards 5 and 60	65.86 <sup>a</sup>	Board 31 (Hamilton)	74.40	0.000
Oklahoma	Southeast	67.23 <sup>b</sup>	Oklahoma County	71.27	0.099
Oregon	Region 4	74.40 <sup>b</sup>	Region 2	78.16	0.063
Pennsylvania	Regions 10, 14, 15, 27, 32, 43, and 44	68.63 <sup>a</sup>	Regions 7, 13, 20, and 33	78.09	0.000
Rhode Island	Kent	74.49 <sup>b</sup>	Washington	78.32	0.076
South Carolina	Region 2	69.61	Region 4	71.88	0.297
South Dakota	Region 4	70.19	Region 2	73.03	0.228
Tennessee	Region 2	68.00 <sup>a</sup>	Region 7 (Shelby)	75.12	0.004
Texas	Region 4	69.92 <sup>a</sup>	Region 10	77.36	0.001
Utah	Central, Four Corners, San Juan, and Southwest	77.41	Utah County	79.07	0.387
Vermont	Rural Northeast	72.71	Champlain Valley	75.68	0.135
Virginia	Region 1	71.95 <sup>a</sup>	Region 2	77.76	0.006
Washington	Region 5	74.50	Region 4 (King)	77.00	0.214
West Virginia	Southern II	66.54	South Central III	69.29	0.302
Wisconsin	Western	69.30 <sup>a</sup>	Milwaukee	73.96	0.040
Wyoming	Judicial District 6	68.67 <sup>a</sup>	Judicial District 2	74.21	0.023

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T17. Alcohol Dependence in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	2.54	Region 2	3.26	0.254
Alaska	Gulf Coast	3.46	Rural	4.62	0.278
Arizona	Rural South	3.58	Pima	4.80	0.211
Arkansas	Areas 5 and 6	2.65	Areas 7, 12, and 13	3.40	0.300
California	Region 3	3.45	Region 2	4.61	0.185
Colorado	Region 3	4.00	Regions 5 and 6	4.34	0.703
Connecticut	South Central	3.24	North Central	3.94	0.362
Delaware	Sussex	2.25	Wilmington City	3.39	0.102
District of Columbia	Ward 4	3.96 <sup>b</sup>	Ward 2	6.36	0.053
Florida	Circuit 5	2.42 <sup>a</sup>	Circuit 2	4.29	0.013
Georgia	Region 2	2.60	Region 3	3.12	0.426
Hawaii	Honolulu	3.70	Hawaii Island	4.03	0.693
Idaho	Region 7	2.87	Region 4	3.90	0.176
Illinois	Region V	3.12	Region I (Cook)	4.05	0.102
Indiana	East	3.08	West	4.26	0.130
Iowa	Southwest	3.33	Central	4.54	0.178
Kansas	South Central	3.08	Kansas City Metro	3.96	0.212
Kentucky	Kentucky River, Mountain, and Pathways	2.60	Seven Counties	3.15	0.389
Louisiana	Region 3	2.93	Region 10 (Jefferson)	3.45	0.509
Maine	Midcoast	2.89	Cumberland	4.08	0.153
Maryland	South	2.62	Baltimore City	3.64	0.194
Massachusetts	Northeast	3.16 <sup>a</sup>	Boston	4.87	0.048
Michigan	Northern	2.92 <sup>a</sup>	Detroit City	5.10	0.008
Minnesota	Regions 5 and 6	3.49	Region 7B (Ramsey)	4.03	0.518
Mississippi	Region 3	2.86	Region 7	3.39	0.451
Missouri	Central	3.40	Eastern (St. Louis City and County)	4.49	0.237
Montana	Region 2	3.69	Region 5	4.52	0.332

See notes at end of table.

(continued)

**Table T17. Alcohol Dependence in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 3	3.14	Region 5	4.31	0.141
Nevada	Rural	3.15	Washoe	4.09	0.227
New Hampshire	Southern 1 (Rockingham)	3.18	Northern	3.84	0.382
New Jersey	Central	2.63	Southern	3.12	0.450
New Mexico	Region 5	3.81	Region 2	4.31	0.570
New York	Region 5	2.57 <sup>a</sup>	Region 3	4.65	0.004
North Carolina	South Central	2.69	Western	3.23	0.396
North Dakota	Lake Region and South Central	3.12 <sup>b</sup>	Southeast	4.50	0.076
Ohio	Boards 8, 13, and 83	2.44 <sup>a</sup>	Board 25 (Franklin)	3.95	0.031
Oklahoma	East Central	2.68	Tulsa County	3.86	0.122
Oregon	Region 4	2.82	Region 2	3.96	0.116
Pennsylvania	Regions 19, 26, 28, and 42	2.63 <sup>a</sup>	Region 36 (Philadelphia)	4.13	0.021
Rhode Island	Kent	3.32	Washington	4.39	0.227
South Carolina	Region 1	2.97	Region 4	3.78	0.271
South Dakota	Region 6	3.17	Region 4	4.28	0.186
Tennessee	Region 1	2.49	Region 4 (Davidson)	3.32	0.220
Texas	Region 4	2.77 <sup>b</sup>	Region 7a	4.11	0.056
Utah	Central, Four Corners, San Juan, and Southwest	3.02	Salt Lake County	3.81	0.259
Vermont	Rural Southeast	2.95	Champlain Valley	3.97	0.169
Virginia	Region 1	3.18	Region 4	3.45	0.705
Washington	Region 2	3.11	Region 4 (King)	3.73	0.406
West Virginia	South Central III	2.55 <sup>a</sup>	Northern C and D	4.01	0.037
Wisconsin	Northern	3.51	Milwaukee	4.57	0.261
Wyoming	Judicial District 8	3.00 <sup>b</sup>	Judicial District 2	4.42	0.078

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Dependence is based on the definition found in the 4<sup>th</sup> edition of the *Diagnostic and Statistical Manual of Mental Disorders (DSM-IV)*.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T18. *Illicit Drug Dependence in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs***

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	1.78	Region 2	2.18	0.343
Alaska	Gulf Coast	2.23	Urban	2.65	0.443
Arizona	Rural South	1.60	Pima	1.97	0.433
Arkansas	Areas 8, 10, and 11	2.09	Areas 7, 12, and 13	2.67	0.307
California	Region 12	1.87	Region 10	2.74	0.119
Colorado	Regions 5 and 6	2.08	Region 3	2.42	0.547
Connecticut	South Central	2.21	Eastern	2.61	0.468
Delaware	Sussex	1.72	Wilmington City	2.42	0.194
District of Columbia	Ward 3	1.90 <sup>a</sup>	Ward 5	4.18	0.015
Florida	Circuit 20	1.46 <sup>a</sup>	Circuit 2	2.76	0.006
Georgia	Region 1	1.65	Region 3	2.00	0.395
Hawaii	Hawaii Island	1.59	Maui	1.84	0.602
Idaho	Region 5	1.57	Region 4	1.97	0.331
Illinois	Region IV	1.63 <sup>a</sup>	Region I (Cook)	2.46	0.042
Indiana	Northeast	1.73	Southeast	2.21	0.342
Iowa	Southwest	1.30	Central	1.59	0.447
Kansas	West	1.66	Kansas City Metro	2.07	0.353
Kentucky	Kentucky River, Mountain, and Pathways	1.75	Bluegrass, Comprehend, and North Key	2.32	0.251
Louisiana	Region 4	1.84	Region 1	2.49	0.264
Maine	Central	1.93	Cumberland	2.32	0.434
Maryland	Montgomery	1.49 <sup>a</sup>	Baltimore City	2.57	0.039
Massachusetts	Northeast	1.82 <sup>b</sup>	Boston	2.82	0.071
Michigan	Northern	1.44 <sup>a</sup>	Detroit City	3.80	0.000
Minnesota	Regions 1 and 2	1.63	Region 7B (Ramsey)	1.98	0.440
Mississippi	Region 5	1.64	Region 7	2.37	0.162
Missouri	Northwest (excluding Jackson)	1.56	Northwest (Jackson)	1.83	0.532
Montana	Region 1	1.71	Region 5	2.33	0.184

See notes at end of table.

(continued)

**Table T18. Illicit Drug Dependence in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 3	1.56	Region 6	2.08	0.210
Nevada	Washoe	1.71	Clark	1.94	0.584
New Hampshire	Southern 1 (Rockingham)	1.63	Northern	2.08	0.307
New Jersey	Central	1.54	Metropolitan	2.02	0.251
New Mexico	Region 2	1.67	Region 1	2.54	0.115
New York	Region 4	1.70 <sup>b</sup>	Region 3	2.79	0.055
North Carolina	Eastern	1.93	North Central	2.21	0.575
North Dakota	Lake Region and South Central	1.31	Northeast	1.73	0.279
Ohio	Boards 7, 15, 41, 79, and 84	1.65 <sup>b</sup>	Board 57 (Montgomery)	2.67	0.054
Oklahoma	East Central	1.70	Tulsa County	2.24	0.286
Oregon	Region 3	1.60	Region 1 (Multnomah)	2.26	0.130
Pennsylvania	Regions 5, 18, 23, 24, and 46	1.22 <sup>a</sup>	Region 36 (Philadelphia)	2.26	0.011
Rhode Island	Kent	2.11	Providence	2.75	0.201
South Carolina	Region 4	1.71	Region 3	1.94	0.607
South Dakota	Region 3	1.36	Region 7	1.65	0.432
Tennessee	Region 1	1.90	Region 4 (Davidson)	2.54	0.260
Texas	Region 6a	1.62 <sup>b</sup>	Region 7a	2.26	0.090
Utah	Central, Four Corners, San Juan, and Southwest	1.67	Bear River, Northeastern, Summit, Toole, and Wasatch	2.35	0.178
Vermont	Rural Southeast	1.98	Champlain Valley	2.72	0.131
Virginia	Region 2	1.61	Region 3	2.04	0.306
Washington	Region 6	2.13	Region 1	2.46	0.546
West Virginia	Northern A and B	1.58 <sup>a</sup>	Northern C and D	2.73	0.031
Wisconsin	Northern	1.48	Milwaukee	2.21	0.121
Wyoming	Judicial District 8	1.68	Judicial District 2	2.30	0.204

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Illicit Drugs include marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically.

NOTE: Dependence is based on the definition found in the 4<sup>th</sup> edition of the *Diagnostic and Statistical Manual of Mental Disorders (DSM-IV)*.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T19. Alcohol Dependence or Abuse in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	5.73	Region 2	6.43	0.438
Alaska	Gulf Coast	7.21	Rural	8.49	0.371
Arizona	Rural South	7.33	Pima	9.38	0.149
Arkansas	Area 9	6.48	Areas 1 and 2	8.12	0.168
California	Region 11 (Los Angeles)	6.98 <sup>a</sup>	Region 2	9.87	0.005
Colorado	Region 3	8.82	Regions 5 and 6	10.13	0.394
Connecticut	North Central	8.21	Eastern	9.56	0.305
Delaware	Sussex	5.64	Kent	6.74	0.284
District of Columbia	Ward 7	7.38 <sup>a</sup>	Ward 2	13.98	0.000
Florida	Circuits 11 and 16	6.36 <sup>a</sup>	Circuit 2	11.22	0.000
Georgia	Region 5	5.61	Region 3	6.72	0.266
Hawaii	Honolulu	7.24	Maui	7.73	0.657
Idaho	Region 7	6.73 <sup>b</sup>	Region 4	9.24	0.053
Illinois	Region V	7.24	Region I (Cook)	8.40	0.167
Indiana	Northeast	7.25 <sup>b</sup>	West	9.46	0.077
Iowa	Northwest	8.25	Northeast	9.92	0.177
Kansas	South Central	7.20 <sup>a</sup>	Kansas City Metro	9.59	0.048
Kentucky	Kentucky River, Mountain, and Pathways	5.92	Bluegrass, Comprehend, and North Key	7.17	0.225
Louisiana	Region 4	7.12	Regions 2 and 9	8.09	0.395
Maine	Midcoast	6.70 <sup>b</sup>	Cumberland	8.83	0.089
Maryland	South	6.16	Baltimore City	7.57	0.256
Massachusetts	Northeast	7.02	Boston	9.03	0.109
Michigan	Western	7.07	Kent	8.45	0.264
Minnesota	Regions 3 and 4	8.64	Regions 5 and 6	9.60	0.442
Mississippi	Region 5	5.58	Region 2	6.82	0.274
Missouri	Southwest	8.34	Eastern (excluding St. Louis)	9.89	0.252
Montana	Region 2	9.08	Region 5	11.15	0.133

See notes at end of table.

(continued)

**Table T19. Alcohol Dependence or Abuse in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Regions 1 and 2	8.16 <sup>a</sup>	Region 5	10.93	0.047
Nevada	Rural	8.01	Washoe	9.60	0.212
New Hampshire	Southern 1 (Rockingham)	7.22	Northern	9.08	0.136
New Jersey	Northern	6.12	Southern	7.58	0.145
New Mexico	Region 4	8.24	Region 3 (Bernalillo)	9.41	0.366
New York	Region 4	5.33 <sup>a</sup>	Region 3	9.25	0.001
North Carolina	South Central	5.85	Eastern	6.74	0.383
North Dakota	Lake Region and South Central	7.29 <sup>a</sup>	Southeast	11.88	0.000
Ohio	Boards 27, 71, and 73	6.04 <sup>a</sup>	Board 25 (Franklin)	8.72	0.013
Oklahoma	East Central	6.32 <sup>b</sup>	Tulsa County	8.50	0.074
Oregon	Region 4	5.92 <sup>a</sup>	Region 1 (Multnomah)	8.11	0.046
Pennsylvania	Regions 5, 18, 23, 24, and 46	5.75 <sup>a</sup>	Regions 6, 12, 16, 31, 35, 39, 45, and 47	8.60	0.004
Rhode Island	Kent	7.66 <sup>b</sup>	Washington	9.93	0.089
South Carolina	Region 1	6.72	Region 4	8.36	0.179
South Dakota	Region 6	9.24	Region 1	10.51	0.384
Tennessee	Region 7 (Shelby)	6.18	Region 2	7.11	0.400
Texas	Region 4	6.35 <sup>a</sup>	Region 1	9.50	0.018
Utah	Central, Four Corners, San Juan, and Southwest	5.58	Weber, Morgan	7.33	0.120
Vermont	Rural Southeast	7.88	Champlain Valley	9.48	0.179
Virginia	Region 5	6.86	Region 3	8.11	0.308
Washington	Region 2	7.26	Region 1	9.07	0.177
West Virginia	South Central I	6.06 <sup>b</sup>	Northern C and D	8.27	0.054
Wisconsin	Northern	9.05	Western	10.37	0.378
Wyoming	Judicial District 8	8.38 <sup>a</sup>	Judicial District 2	12.47	0.010

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Dependence or abuse is based on definitions found in the 4<sup>th</sup> edition of the *Diagnostic and Statistical Manual of Mental Disorders (DSM-IV)*.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.



**Table T20. *Illicit Drug Dependence or Abuse in Past Year* among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	2.61	Region 2	3.25	0.260
Alaska	Gulf Coast	3.46	Rural	3.98	0.584
Arizona	Rural South	2.59	Pima	3.05	0.484
Arkansas	Areas 8, 10, and 11	2.99	Areas 7, 12, and 13	4.04	0.168
California	Region 12	2.61 <sup>b</sup>	Region 10	3.74	0.097
Colorado	Regions 5 and 6	2.86	Region 3	3.49	0.386
Connecticut	South Central	2.90	Eastern	3.54	0.314
Delaware	Sussex	2.80	Wilmington City	3.81	0.186
District of Columbia	Ward 3	2.59 <sup>a</sup>	Ward 5	5.85	0.005
Florida	Circuits 11 and 16	2.42 <sup>a</sup>	Circuit 2	4.42	0.002
Georgia	Region 4	2.39	Region 3	3.20	0.179
Hawaii	Hawaii Island	2.42	Maui	2.61	0.758
Idaho	Region 1	2.35	Region 4	3.25	0.115
Illinois	Region III	2.33 <sup>a</sup>	Region I (Cook)	3.45	0.017
Indiana	East	2.58	Southeast	3.21	0.363
Iowa	Southwest	1.95	Central	2.38	0.395
Kansas	West	2.42	Kansas City Metro	3.19	0.206
Kentucky	Adanta, Cumberland River, and Lifeskills	2.63	Seven Counties	3.09	0.453
Louisiana	Region 4	2.73	Region 1	3.40	0.372
Maine	York	2.98	Western	3.74	0.242
Maryland	Montgomery	2.22 <sup>b</sup>	Baltimore City	3.41	0.072
Massachusetts	Northeast	2.63	Western	3.65	0.104
Michigan	Northern	2.31 <sup>a</sup>	Detroit City	4.74	0.001
Minnesota	Regions 5 and 6	2.42	Region 7A (Hennepin)	3.03	0.321
Mississippi	Region 5	2.58	Region 7	3.50	0.217
Missouri	Northwest (excluding Jackson)	2.61	Northwest (Jackson)	3.26	0.332
Montana	Region 2	2.52 <sup>a</sup>	Region 5	3.85	0.044

See notes at end of table.

(continued)

**Table T20. Illicit Drug Dependence or Abuse in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 3	2.12	Region 6	2.70	0.247
Nevada	Washoe	2.63	Rural	2.67	0.942
New Hampshire	Southern 1 (Rockingham)	2.47	Central 1	3.03	0.317
New Jersey	Northern	2.11	Metropolitan	2.82	0.177
New Mexico	Region 4	2.60	Region 1	3.67	0.119
New York	Region 4	2.36 <sup>a</sup>	Region 15	3.95	0.024
North Carolina	Eastern	3.06	South Central	3.35	0.658
North Dakota	Lake Region and South Central	1.99	Northeast	2.53	0.285
Ohio	Boards 4 and 78	2.44 <sup>b</sup>	Board 25 (Franklin)	3.60	0.080
Oklahoma	East Central	2.43	Tulsa County	3.21	0.219
Oregon	Region 3	2.31 <sup>b</sup>	Region 1 (Multnomah)	3.40	0.067
Pennsylvania	Regions 5, 18, 23, 24, and 46	1.79 <sup>a</sup>	Region 36 (Philadelphia)	3.39	0.004
Rhode Island	Kent	3.37	Washington	4.06	0.348
South Carolina	Region 1	2.81	Region 2	3.29	0.448
South Dakota	Region 1	2.15	Region 7	2.56	0.454
Tennessee	Region 6	2.86	Region 7 (Shelby)	3.47	0.372
Texas	Region 2	2.54	Region 1	3.42	0.169
Utah	Central, Four Corners, San Juan, and Southwest	2.50	Bear River, Northeastern, Summit, Toole, and Wasatch	3.43	0.167
Vermont	Rural Southeast	2.78	Champlain Valley	3.51	0.206
Virginia	Region 2	2.20	Region 3	2.97	0.144
Washington	Region 6	2.98	Region 1	3.28	0.657
West Virginia	Northern A and B	2.38 <sup>a</sup>	Northern C and D	3.90	0.038
Wisconsin	Northern	2.35	Milwaukee	3.30	0.150
Wyoming	Judicial District 8	2.41 <sup>b</sup>	Judicial District 2	3.64	0.070

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Illicit Drugs include marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically.

NOTE: Dependence or abuse is based on definitions found in the 4<sup>th</sup> edition of the *Diagnostic and Statistical Manual of Mental Disorders (DSM-IV)*.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T21. Dependence on or Abuse of Illicit Drugs or Alcohol in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	6.97	Region 2	8.13	0.259
Alaska	Gulf Coast	9.18	Rural	11.75	0.141
Arizona	Rural South	8.48	Pima	10.88	0.125
Arkansas	Areas 5 and 6	8.51	Areas 1 and 2	10.17	0.205
California	Region 6 (Santa Clara)	8.29 <sup>a</sup>	Region 2	11.39	0.019
Colorado	Region 3	10.91	Region 1	11.93	0.515
Connecticut	South Central	9.76	Eastern	11.16	0.314
Delaware	Sussex	7.41	Wilmington City	9.27	0.174
District of Columbia	Ward 4	9.50 <sup>a</sup>	Ward 2	15.37	0.002
Florida	Circuits 11 and 16	7.47 <sup>a</sup>	Circuit 2	13.27	0.000
Georgia	Region 2	7.12	Region 3	8.88	0.129
Hawaii	Honolulu	8.43	Maui	8.89	0.698
Idaho	Region 7	7.85 <sup>a</sup>	Region 4	10.71	0.035
Illinois	Region V	8.58 <sup>b</sup>	Region I (Cook)	10.24	0.079
Indiana	East	8.33 <sup>b</sup>	West	10.78	0.077
Iowa	Northwest	9.11	Central	10.95	0.194
Kansas	South Central	8.40 <sup>a</sup>	Kansas City Metro	11.15	0.035
Kentucky	Kentucky River, Mountain, and Pathways	7.45	Bluegrass, Comprehend, and North Key	8.95	0.220
Louisiana	Region 4	8.68	Regions 2 and 9	10.21	0.260
Maine	Central	9.04	Cumberland	11.41	0.115
Maryland	South	7.32 <sup>b</sup>	Baltimore City	9.76	0.072
Massachusetts	Northeast	8.76 <sup>b</sup>	Boston	11.03	0.091
Michigan	Northern	8.49 <sup>b</sup>	Genesee	10.75	0.060
Minnesota	Regions 3 and 4	9.76	Region 7A (Hennepin)	10.88	0.403
Mississippi	Region 5	7.08	Region 2	8.39	0.316
Missouri	Southeast	9.57	Eastern (excluding St. Louis)	11.22	0.265
Montana	Region 2	9.93 <sup>a</sup>	Region 5	12.92	0.049

See notes at end of table.

(continued)

**Table T21. Dependence on or Abuse of Illicit Drugs or Alcohol in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Regions 1 and 2	8.92 <sup>b</sup>	Region 5	11.75	0.053
Nevada	Rural	9.27	Washoe	10.89	0.263
New Hampshire	Southern 1 (Rockingham)	8.55	Northern	10.88	0.102
New Jersey	Northern	7.31	Southern	9.06	0.127
New Mexico	Region 4	9.21	Region 3 (Bernalillo)	11.10	0.183
New York	Region 4	6.55 <sup>a</sup>	Region 3	11.62	0.000
North Carolina	South Central	7.90	North Central	8.44	0.649
North Dakota	Lake Region and South Central	8.32 <sup>a</sup>	Southeast	12.84	0.001
Ohio	Boards 3, 52, and 85	7.67 <sup>a</sup>	Board 25 (Franklin)	10.75	0.016
Oklahoma	East Central	7.66 <sup>b</sup>	Tulsa County	10.12	0.072
Oregon	Region 4	7.00 <sup>a</sup>	Region 1 (Multnomah)	10.21	0.015
Pennsylvania	Regions 5, 18, 23, 24, and 46	6.47 <sup>a</sup>	Region 36 (Philadelphia)	9.78	0.003
Rhode Island	Kent	9.98	Washington	12.34	0.132
South Carolina	Region 1	8.22	Region 2	9.97	0.158
South Dakota	Region 3	10.16	Region 4	11.33	0.457
Tennessee	Region 6	8.02	Region 4 (Davidson)	8.90	0.509
Texas	Region 4	7.65 <sup>a</sup>	Region 1	11.12	0.014
Utah	Central, Four Corners, San Juan, and Southwest	6.87 <sup>a</sup>	Salt Lake County	9.33	0.041
Vermont	Rural Southeast	9.65	Champlain Valley	11.17	0.247
Virginia	Region 2	8.20	Region 3	9.48	0.304
Washington	Region 2	9.15	Region 1	11.02	0.217
West Virginia	South Central III	7.29 <sup>a</sup>	Northern C and D	10.47	0.014
Wisconsin	Northern	10.15	Milwaukee	12.47	0.161
Wyoming	Judicial District 8	9.62 <sup>a</sup>	Judicial District 2	14.55	0.004

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Illicit Drugs include marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically.

NOTE: Dependence or abuse is based on definitions found in the 4<sup>th</sup> edition of the *Diagnostic and Statistical Manual of Mental Disorders* (DSM-IV).

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T22. Needing But Not Receiving Treatment for Alcohol Use in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	5.32	Region 2	6.00	0.443
Alaska	Gulf Coast	6.78	Rural	7.45	0.601
Arizona	Rural South	7.00	Pima	8.76	0.191
Arkansas	Areas 8, 10, and 11	6.16	Areas 1 and 2	7.37	0.262
California	Region 11 (Los Angeles)	6.72 <sup>a</sup>	Region 2	9.57	0.004
Colorado	Region 3	8.53	Region 1	9.99	0.296
Connecticut	North Central	7.36	Eastern	9.12	0.167
Delaware	Sussex	5.09	New Castle (excluding Wilmington City)	6.40	0.134
District of Columbia	Ward 7	7.03 <sup>a</sup>	Ward 2	13.77	0.000
Florida	Circuits 11 and 16	6.12 <sup>a</sup>	Circuit 2	11.13	0.000
Georgia	Region 2	5.42	Region 3	6.50	0.260
Hawaii	Honolulu	6.85	Maui	7.22	0.705
Idaho	Region 7	6.70 <sup>b</sup>	Region 4	8.98	0.064
Illinois	Region V	7.06	Region I (Cook)	8.11	0.214
Indiana	Northeast	6.91 <sup>b</sup>	West	9.05	0.074
Iowa	Northwest	7.82	Northeast	9.76	0.105
Kansas	South Central	6.64 <sup>a</sup>	Kansas City Metro	9.23	0.022
Kentucky	Kentucky River, Mountain, and Pathways	5.73	Bluegrass, Comprehend, and North Key	6.92	0.237
Louisiana	Region 4	6.88	Regions 2 and 9	7.97	0.354
Maine	Midcoast	6.34 <sup>b</sup>	Cumberland	8.64	0.070
Maryland	South	5.91	North Central	7.17	0.287
Massachusetts	Northeast	6.80	Boston	8.75	0.113
Michigan	Western	6.82	Washtenaw	8.15	0.258
Minnesota	Regions 3 and 4	8.35	Regions 5 and 6	9.50	0.360
Mississippi	Region 5	5.23	Region 2	6.38	0.267
Missouri	Southwest	7.75	Eastern (excluding St. Louis)	9.46	0.192
Montana	Region 2	7.94 <sup>b</sup>	Region 5	10.29	0.069

See notes at end of table.

(continued)

**Table T22. Needing But Not Receiving Treatment for Alcohol Use in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Regions 1 and 2	7.67 <sup>a</sup>	Region 5	10.46	0.033
Nevada	Rural	7.43	Washoe	9.20	0.147
New Hampshire	Southern 1 (Rockingham)	6.82	Northern	8.55	0.135
New Jersey	Northern	5.88	Southern	7.04	0.223
New Mexico	Region 1	7.64	Region 3 (Bernalillo)	8.88	0.285
New York	Region 1	4.78 <sup>a</sup>	Region 3	8.97	0.000
North Carolina	South Central	5.58	Eastern	6.39	0.398
North Dakota	Lake Region and South Central	7.01 <sup>a</sup>	Southeast	11.51	0.000
Ohio	Boards 27, 71, and 73	5.76 <sup>a</sup>	Board 25 (Franklin)	7.93	0.023
Oklahoma	East Central	5.96 <sup>b</sup>	Tulsa County	8.14	0.061
Oregon	Region 4	5.70 <sup>b</sup>	Region 1 (Multnomah)	7.87	0.051
Pennsylvania	Regions 5, 18, 23, 24 and 46	5.54 <sup>a</sup>	Regions 6, 12, 16, 31, 35, 39, 45 and 47	8.38	0.003
Rhode Island	Kent	7.34 <sup>b</sup>	Washington	9.65	0.072
South Carolina	Region 1	6.37	Region 2	7.98	0.146
South Dakota	Region 7	8.58	Region 2	9.75	0.345
Tennessee	Region 7 (Shelby)	5.96	Region 2	6.84	0.413
Texas	Region 4	6.11 <sup>a</sup>	Region 1	9.24	0.013
Utah	Central, Four Corners, San Juan, and Southwest	5.21	Weber, Morgan	6.75	0.128
Vermont	Rural Southeast	7.66	Champlain Valley	9.10	0.190
Virginia	Region 5	6.44	Region 3	7.73	0.257
Washington	Region 2	6.70	Region 4 (King)	8.20	0.214
West Virginia	South Central I	5.75 <sup>b</sup>	Northern C and D	7.76	0.057
Wisconsin	Northern	8.40	Milwaukee	9.60	0.404
Wyoming	Judicial District 8	7.86 <sup>a</sup>	Judicial District 2	12.19	0.004

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Needing But Not Receiving Treatment refers to respondents classified as needing treatment for alcohol, but not receiving treatment for an alcohol problem at a specialty facility (i.e., drug and alcohol rehabilitation facilities [inpatient or outpatient], hospitals [inpatient only], and mental health centers).

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T23. Needing But Not Receiving Treatment for Illicit Drug Use in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	2.19	Region 4	2.45	0.583
Alaska	Southeast	3.07	Rural	3.65	0.526
Arizona	Rural South	2.39	Pima	2.83	0.491
Arkansas	Areas 5 and 6	2.70	Areas 7, 12, and 13	3.58	0.210
California	Region 14 (Orange)	2.46 <sup>b</sup>	Region 1	3.54	0.097
Colorado	Regions 5 and 6	2.62	Region 3	3.33	0.315
Connecticut	South Central	2.59	Eastern	3.23	0.302
Delaware	New Castle (excluding Wilmington City)	2.56	Wilmington City	3.30	0.260
District of Columbia	Ward 3	1.98 <sup>a</sup>	Ward 5	4.43	0.007
Florida	Circuit 17 (Broward)	2.14 <sup>a</sup>	Circuit 2	4.10	0.002
Georgia	Region 2	2.19	Region 3	2.95	0.174
Hawaii	Hawaii Island	2.26	Maui	2.54	0.666
Idaho	Region 1	2.16	Region 4	2.92	0.169
Illinois	Region III	2.04 <sup>a</sup>	Region I (Cook)	3.12	0.016
Indiana	Northeast	2.27	Southeast	2.96	0.266
Iowa	Southwest	1.82	Central	2.15	0.472
Kansas	West	2.04	Kansas City Metro	2.63	0.246
Kentucky	Kentucky River, Mountain, and Pathways	2.31	Bluegrass, Comprehend, and North Key	2.90	0.330
Louisiana	Region 4	2.56	Region 1	3.31	0.311
Maine	York	2.70	Western	3.59	0.183
Maryland	Montgomery	1.75 <sup>a</sup>	Baltimore City	3.40	0.011
Massachusetts	Metrowest	2.14 <sup>a</sup>	Western	3.40	0.030
Michigan	Northern	2.08 <sup>a</sup>	Detroit City	4.76	0.000
Minnesota	Regions 3 and 4	2.13	Region 7A (Hennepin)	2.59	0.394
Mississippi	Region 1	2.32	Region 7	3.38	0.119
Missouri	Northwest (excluding Jackson)	2.26	Northwest (Jackson)	3.11	0.195
Montana	Region 1	2.23 <sup>a</sup>	Region 5	3.55	0.038

See notes at end of table.

(continued)

**Table T23. Needing But Not Receiving Treatment for Illicit Drug Use in Past Year among Persons Aged 12 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 3	1.90	Region 6	2.52	0.207
Nevada	Rural	2.21	Washoe	2.48	0.620
New Hampshire	Southern 1 (Rockingham)	2.14	Central 1	2.85	0.190
New Jersey	Northern	1.75	Metropolitan	2.32	0.199
New Mexico	Region 2	2.22 <sup>b</sup>	Region 1	3.50	0.051
New York	Region 5	2.04 <sup>a</sup>	Region 10	3.49	0.006
North Carolina	North Central	2.65	South Central	2.96	0.604
North Dakota	Lake Region and South Central	1.75	Northeast	2.30	0.252
Ohio	Boards 50 and 76	2.05 <sup>b</sup>	Board 57 (Montgomery)	3.04	0.088
Oklahoma	Northwest and Southwest	2.29	Tulsa County	3.20	0.171
Oregon	Region 3	2.21 <sup>b</sup>	Region 1 (Multnomah)	3.35	0.061
Pennsylvania	Regions 5, 18, 23, 24, and 46	1.53 <sup>a</sup>	Region 36 (Philadelphia)	3.38	0.001
Rhode Island	Bristol and Newport	2.91	Washington	3.61	0.301
South Carolina	Region 1	2.44	Region 2	3.07	0.283
South Dakota	Region 1	1.93	Region 7	2.45	0.314
Tennessee	Region 2	2.65	Region 7 (Shelby)	3.25	0.360
Texas	Region 3a	2.25 <sup>b</sup>	Region 1	3.17	0.070
Utah	Central, Four Corners, San Juan, and Southwest	2.30	Bear River, Northeastern, Summit, Toole, and Wasatch	3.04	0.260
Vermont	Rural Southwest	2.48	Champlain Valley	3.15	0.230
Virginia	Region 2	1.77	Region 5	2.46	0.147
Washington	Region 3	2.68	Region 1	3.22	0.437
West Virginia	Northern A and B	2.07 <sup>a</sup>	Northern C and D	3.57	0.020
Wisconsin	Northern	2.10	Milwaukee	3.02	0.156
Wyoming	Judicial District 8	2.01 <sup>a</sup>	Judicial District 2	3.25	0.044

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Needing But Not Receiving Treatment refers to respondents classified as needing treatment for illicit drugs, but not receiving treatment for an illicit drug problem at a specialty facility (i.e., drug and alcohol rehabilitation facilities [inpatient or outpatient], hospitals [inpatient only], and mental health centers). Illicit Drugs include marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.



**Table T24. Serious Psychological Distress in Past Year among Persons Aged 18 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 1	10.55	Region 2	11.14	0.658
Alaska	Gulf Coast	10.94	Rural	11.76	0.612
Arizona	Rural North	11.63	Maricopa	12.11	0.746
Arkansas	Areas 8, 10, and 11	12.03	Areas 3 and 4	13.96	0.239
California	Region 14 (Orange)	9.82	Region 3	12.06	0.117
Colorado	Regions 5 and 6	10.79 <sup>b</sup>	Region 4	13.69	0.085
Connecticut	Southwest	10.28	Eastern	12.51	0.142
Delaware	New Castle (excluding Wilmington City)	10.58	Wilmington City	12.80	0.135
District of Columbia	Ward 4	9.88 <sup>a</sup>	Ward 2	13.60	0.017
Florida	Circuit 15 (Palm Beach)	9.17 <sup>a</sup>	Circuit 14	12.88	0.014
Georgia	Region 3	11.23	Region 4	13.22	0.213
Hawaii	Maui	9.05	Hawaii Island	10.15	0.416
Idaho	Region 1	10.95	Region 6	12.91	0.202
Illinois	Region I (Cook)	10.20 <sup>a</sup>	Region V	12.66	0.036
Indiana	Northwest	11.70	East	14.28	0.136
Iowa	Northwest	10.92	Southeast	12.11	0.437
Kansas	South Central	12.36	Wichita (Sedgwick)	14.06	0.316
Kentucky	Seven Counties	12.73	Kentucky River, Mountain, and Pathways	15.39	0.126
Louisiana	Regions 2 and 9	11.43	Regions 7 and 8	13.54	0.175
Maine	Midcoast	11.16	Central	12.78	0.316
Maryland	Montgomery	8.65 <sup>a</sup>	Baltimore City	13.05	0.004
Massachusetts	Metrowest	9.78 <sup>a</sup>	Boston	13.27	0.012
Michigan	Oakland	9.88 <sup>a</sup>	Detroit City	13.53	0.005
Minnesota	Regions 3 and 4	10.89	Region 7B (Ramsey)	12.29	0.353
Mississippi	Region 4	11.40	Region 6	13.71	0.146
Missouri	Eastern (St. Louis City and County)	13.11	Northwest (Jackson)	14.69	0.357
Montana	Region 5	11.00	Region 3	13.45	0.111

See notes at end of table.

(continued)

**Table T24. Serious Psychological Distress in Past Year among Persons Aged 18 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 5	11.74	Region 3	12.52	0.613
Nevada	Clark	11.95	Washoe	12.64	0.631
New Hampshire	Southern 1 (Rockingham)	10.10 <sup>b</sup>	Central 1	12.78	0.071
New Jersey	Central	9.75	Northern	11.00	0.338
New Mexico	Region 2	11.17	Region 1	13.08	0.262
New York	Region 6	9.31 <sup>a</sup>	Region 3	14.70	0.000
North Carolina	Western	11.60	North Central	12.15	0.717
North Dakota	Badlands and West Central	11.24	Southeast	12.37	0.407
Ohio	Boards 28, 43, and 67	10.58 <sup>a</sup>	Boards 5 and 60	13.80	0.028
Oklahoma	Central	12.41	Northwest and Southwest	14.36	0.237
Oregon	Region 3	11.14	Region 1 (Multnomah)	13.36	0.120
Pennsylvania	Regions 7, 13, 20, and 33	9.13 <sup>a</sup>	Regions 10, 14, 15, 27, 32, 43, and 44	13.42	0.002
Rhode Island	Bristol and Newport	11.36 <sup>a</sup>	Providence	15.73	0.009
South Carolina	Region 4	11.12	Region 1	13.52	0.107
South Dakota	Region 1	10.28	Region 6	11.55	0.401
Tennessee	Region 7 (Shelby)	11.70 <sup>b</sup>	Region 1	14.84	0.077
Texas	Region 6a	9.75 <sup>a</sup>	Region 3bc	13.67	0.005
Utah	Central, Four Corners, San Juan, and Southwest	13.48	Weber, Morgan	15.34	0.290
Vermont	Rural Southeast	11.28	Rural Southwest	12.77	0.347
Virginia	Region 2	9.34 <sup>a</sup>	Region 3	12.34	0.033
Washington	Region 3	11.24	Region 5	12.80	0.291
West Virginia	South Central I	13.39	Southern II	16.49	0.144
Wisconsin	Southeastern	10.30 <sup>b</sup>	Milwaukee	13.09	0.060
Wyoming	Judicial District 5	11.13 <sup>a</sup>	Judicial District 2	15.25	0.014

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Serious Psychological Distress (SPD) is defined as having a score of 13 or higher on the K6 scale. Because of questionnaire changes, these estimates are not comparable with estimates from the 2002-2004 substate report. For details, see Section B.7 of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*. Data for SPD are not defined for 12 to 17 year olds; therefore, the estimates reflect only those aged 18 or older.

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.

**Table T25. Having at Least One Major Depressive Episode in Past Year among Persons Aged 18 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Alabama	Region 3	7.01	Region 1	8.04	0.417
Alaska	Rural	6.06	Southeast	7.21	0.361
Arizona	Rural South	6.86	Maricopa	8.05	0.356
Arkansas	Areas 7, 12, and 13	7.59	Areas 1 and 2	9.41	0.226
California	Region 12	5.82 <sup>a</sup>	Region 4	8.70	0.029
Colorado	Region 1	8.13	Regions 2 and 7	9.47	0.339
Connecticut	South Central	7.36	North Central	8.97	0.267
Delaware	Kent	7.21	Wilmington City	8.54	0.352
District of Columbia	Ward 5	6.71 <sup>a</sup>	Ward 3	10.38	0.011
Florida	Circuits 11 and 16	5.66 <sup>b</sup>	Circuit 14	7.93	0.065
Georgia	Region 3	7.02	Region 1	8.65	0.235
Hawaii	Honolulu	5.93	Hawaii Island	6.61	0.566
Idaho	Region 5	7.95	Region 4	8.74	0.588
Illinois	Region II	6.55	Region IV	7.63	0.314
Indiana	Northwest	7.46 <sup>b</sup>	East	10.67	0.057
Iowa	North Central	6.91	Central	7.76	0.502
Kansas	South Central	7.50	Southeast	8.24	0.592
Kentucky	Communicare and River Valley	8.32	Adanta, Cumberland River, and Lifeskills	9.11	0.620
Louisiana	Regions 7 and 8	7.28	Region 10 (Jefferson)	8.51	0.356
Maine	Aroostook/Downeast	8.18	Midcoast	9.57	0.397
Maryland	Montgomery	6.07	West	7.88	0.162
Massachusetts	Southeast	6.92 <sup>b</sup>	Boston	9.50	0.073
Michigan	Oakland	6.66 <sup>b</sup>	Mid South	8.78	0.079
Minnesota	Regions 5 and 6	6.52	Region 7B (Ramsey)	8.01	0.282
Mississippi	Region 2	6.68	Region 1	8.67	0.151
Missouri	Eastern (St. Louis City and County)	7.58	Southeast	9.04	0.334
Montana	Region 1	8.12	Region 3	9.39	0.414

See notes at end of table.

(continued)

**Table T25. Having at Least One Major Depressive Episode in Past Year among Persons Aged 18 or Older, Differences between Lowest and Highest Prevalence Substate Regions within State: 2004, 2005, and 2006 NSDUHs (continued)**

State	Lowest Prevalence Substate Region within State		Highest Prevalence Substate Region within State		p value
	Substate Region Name	Estimate	Substate Region Name	Estimate	
Nebraska	Region 4	7.24	Region 5	8.65	0.306
Nevada	Rural	8.97	Washoe	10.18	0.466
New Hampshire	Southern 1 (Rockingham)	7.35	Central 1	8.47	0.390
New Jersey	Central	6.23	Northern	7.13	0.452
New Mexico	Region 5	6.99	Region 3 (Bernalillo)	8.54	0.269
New York	Region 5	6.26	Region 3	8.23	0.112
North Carolina	Eastern	7.31	North Central	7.99	0.590
North Dakota	North Central and Northwest	7.01	Southeast	8.34	0.277
Ohio	Boards 18 and 47	7.95	Boards 27, 71, and 73	9.99	0.175
Oklahoma	East Central	7.66	Tulsa County	9.48	0.237
Oregon	Region 4	8.07 <sup>b</sup>	Region 1 (Multnomah)	10.85	0.089
Pennsylvania	Regions 7, 13, 20, and 33	5.79 <sup>a</sup>	Region 36 (Philadelphia)	8.18	0.039
Rhode Island	Bristol and Newport	8.12	Providence	10.31	0.178
South Carolina	Region 4	6.94	Region 1	8.86	0.135
South Dakota	Region 5	6.23	Region 2	7.24	0.415
Tennessee	Region 7 (Shelby)	7.93	Region 4 (Davidson)	9.20	0.397
Texas	Region 11c (Hidalgo)	5.42 <sup>a</sup>	Region 2	8.51	0.021
Utah	Central, Four Corners, San Juan, and Southwest	8.28 <sup>b</sup>	Salt Lake County	11.06	0.070
Vermont	Champlain Valley	7.88	Rural Northeast	9.41	0.283
Virginia	Region 2	6.82	Region 3	8.33	0.236
Washington	Region 2	6.80	Region 4 (King)	7.68	0.469
West Virginia	Eastern Highland	8.24	Southern II	10.69	0.196
Wisconsin	Southeastern	7.45	Northeastern	8.61	0.391
Wyoming	Judicial District 5	7.90	Judicial District 2	10.36	0.111

NOTE: p value: Bayes posterior probability of no difference.

NOTE: For Substate Region definitions, see Section D of the report on *Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health*.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach.

NOTE: Major Depressive Episode (MDE) is defined as in the 4<sup>th</sup> edition of the *Diagnostic and Statistical Manual of Mental Disorders (DSM-IV)*, which specifies a period of at least 2 weeks when a person experienced a depressed mood or loss of interest or pleasure in daily activities and had a majority of specified depression symptoms. There are minor wording differences in the questions in the adult and adolescent MDE module. Therefore, data from youths aged 12 to 17 were not combined with data from persons aged 18 or older to get an overall estimate (12 or older).

<sup>a</sup> Difference is statistically significant at the 0.05 level.

<sup>b</sup> Difference is statistically significant at the 0.10 level.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2004, 2005, and 2006.