Table 39.1 Marijuana Use in Past Month, Average Annual Rate of First Use of Marijuana, and Perceptions of Great Risk of Smoking Marijuana Once a Month in Pennsylvania among Persons Aged 12 or Older, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

	Marijuana Use in Past Month		Average Annual Rate of First Use of Marijuana ¹		Perceptions of Great Risk of Smoking Marijuana Once a Month	
State/Substate Region	Estimate	95% Prediction Interval	Estimate	95% Prediction Interval	Estimate	95% Prediction Interval
Pennsylvania	4.53	(4.09 - 5.01)	1.38	(1.28 - 1.50)	45.47	(43.88 - 47.07)
Regions 1, 27, and 47	5.58	(4.54 - 6.84)	1.39	(1.16 - 1.66)	43.23	(39.89 - 46.63)
Regions 2, 3, 8, and 9	3.44	(2.66 - 4.44)	1.32	(1.06 - 1.64)	50.53	(46.52 - 54.54)
Regions 4 and 42	3.42	(2.53 - 4.61)	1.02	(0.77 - 1.35)	49.09	(44.82 - 53.38)
Regions 5 and 28	3.32	(2.35 - 4.66)	1.01	(0.76 - 1.36)	50.50	(45.66 - 55.33)
Regions 6, 16, and 39	3.19	(2.27 - 4.47)	1.20	(0.91 - 1.56)	49.47	(44.69 - 54.26)
Region 7 (Bucks)	4.36	(3.29 - 5.77)	1.39	(1.08 - 1.79)	36.98	(32.68 - 41.49)
Regions 10, 15, and 25	3.22	(2.29 - 4.52)	1.26	(0.96 - 1.64)	49.47	(44.52 - 54.43)
Regions 11, 29, 44, and 48	3.54	(2.60 - 4.82)	1.39	(1.08 - 1.79)	48.75	(44.20 - 53.33)
Regions 12, 35, 41, and 45	5.53	(4.32 - 7.05)	2.07	(1.60 - 2.66)	42.33	(38.00 - 46.78)
Region 13 (Chester)	4.62	(3.47 - 6.14)	1.55	(1.17 - 2.05)	39.66	(35.04 - 44.48)
Regions 14, 31, 36, and 46	4.09	(3.01 - 5.54)	1.20	(0.92 - 1.58)	49.96	(44.86 - 55.06)
Regions 17, 24, and 43	3.25	(2.43 - 4.32)	1.12	(0.89 - 1.39)	51.10	(46.56 - 55.63)
Region 18 (Philadelphia)	7.20	(5.79 - 8.90)	1.73	(1.41 - 2.11)	46.62	(43.01 - 50.26)
Regions 19 and 23	4.15	(3.00 - 5.73)	1.47	(1.12 - 1.92)	45.50	(40.96 - 50.11)
Regions 20, 26, and 40	3.28	(2.41 - 4.44)	1.02	(0.78 - 1.33)	46.70	(42.19 - 51.26)
Regions 21 and 32	3.62	(2.61 - 5.00)	1.09	(0.83 - 1.44)	47.03	(42.62 - 51.50)
Region 22 (Delaware)	5.02	(3.83 - 6.56)	1.88	(1.46 - 2.42)	41.67	(37.22 - 46.25)
Region 30 (Lancaster)	4.05	(3.04 - 5.39)	1.50	(1.16 - 1.93)	45.91	(41.43 - 50.45)
Region 33 (Lehigh)	3.23	(2.32 - 4.49)	1.33	(1.01 - 1.76)	45.00	(40.04 - 50.07)
Region 34	3.54	(2.58 - 4.83)	0.96	(0.72 - 1.28)	49.29	(44.47 - 54.13)
Region 37 (Montgomery)	4.58	(3.47 - 6.02)	1.53	(1.21 - 1.93)	39.07	(34.93 - 43.37)
Region 38 (Northampton)	4.22	(3.14 - 5.67)	1.24	(0.93 - 1.66)	43.86	(38.94 - 48.89)
Region 49	3.92	(2.89 - 5.28)	1.29	(1.02 - 1.63)	44.32	(39.96 - 48.76)

NOTE: For Substate Region definitions, see Section D of the report on Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

Average Annual Rate = {(Number of Marijuana Initiates in past 24 months)/[(Number of Marijuana Initiates in past 24 months * 0.5) + Number of persons who never used marijuana]}/2. Both the computation components, Number of Marijuana Initiates in past 24 months and Number of persons who never used marijuana, 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. The prediction intervals for Average Annual Rate of First Use of Marijuana use a simultaneous solution for First Use of Marijuana and Never Used Marijuana outcomes, which had random effects that were allowed to be correlated across the two outcomes. The associated Markov Chain Monte Carlo chains were used to calculate the posterior variance.

Table 39.2 Any Illicit Drug Use in Past Month, Any Illicit Drug Use Other than Marijuana in Past Month, and Cocaine Use in Past Year in Pennsylvania among Persons Aged 12 or Older, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

	Illicit Drug Use in Past Month ¹		Any Illicit Drug Use Other Than Marijuana in Past Month ¹		Cocaine Use in Past Year	
State/Substate Region	Estimate	95% Prediction Interval	Estimate	95% Prediction Interval	Estimate	95% Prediction Interval
Pennsylvania	5.83	(5.28 - 6.43)	2.64	(2.29 - 3.04)	1.53	(1.28 - 1.82)
Regions 1, 27, and 47	7.63	(6.23 - 9.32)	3.07	(2.38 - 3.95)	1.81	(1.30 - 2.50)
Regions 2, 3, 8, and 9	4.23	(3.25 - 5.50)	2.16	(1.62 - 2.86)	1.42	(1.03 - 1.94)
Regions 4 and 42	5.07	(3.78 - 6.77)	2.50	(1.83 - 3.41)	1.42	(1.02 - 1.99)
Regions 5 and 28	4.17	(3.00 - 5.77)	2.21	(1.59 - 3.07)	1.44	(0.97 - 2.13)
Regions 6, 16, and 39	3.95	(2.91 - 5.34)	2.07	(1.48 - 2.88)	1.29	(0.92 - 1.81)
Region 7 (Bucks)	5.40	(4.12 - 7.05)	2.34	(1.72 - 3.17)	1.16	(0.83 - 1.62)
Regions 10, 15, and 25	4.10	(2.98 - 5.62)	2.10	(1.52 - 2.91)	1.28	(0.91 - 1.79)
Regions 11, 29, 44, and 48	4.71	(3.52 - 6.27)	2.31	(1.71 - 3.11)	1.30	(0.92 - 1.85)
Regions 12, 35, 41, and 45	6.52	(5.09 - 8.31)	2.78	(2.06 - 3.73)	1.79	(1.31 - 2.44)
Region 13 (Chester)	6.02	(4.53 - 7.96)	2.65	(1.93 - 3.63)	1.69	(1.16 - 2.47)
Regions 14, 31, 36, and 46	4.93	(3.72 - 6.50)	2.34	(1.73 - 3.17)	1.41	(0.98 - 2.02)
Regions 17, 24, and 43	4.43	(3.38 - 5.79)	2.11	(1.53 - 2.91)	1.24	(0.87 - 1.75)
Region 18 (Philadelphia)	9.32	(7.40 - 11.69)	3.83	(2.75 - 5.31)	2.17	(1.48 - 3.16)
Regions 19 and 23	5.07	(3.74 - 6.84)	2.39	(1.75 - 3.26)	1.43	(1.00 - 2.05)
Regions 20, 26, and 40	4.05	(3.04 - 5.38)	2.05	(1.51 - 2.78)	1.19	(0.84 - 1.67)
Regions 21 and 32	4.43	(3.19 - 6.11)	2.10	(1.48 - 2.98)	1.47	(0.98 - 2.19)
Region 22 (Delaware)	6.10	(4.66 - 7.95)	2.61	(1.90 - 3.58)	1.24	(0.88 - 1.74)
Region 30 (Lancaster)	5.12	(3.86 - 6.77)	2.41	(1.76 - 3.29)	1.35	(0.98 - 1.84)
Region 33 (Lehigh)	4.49	(3.26 - 6.15)	2.50	(1.77 - 3.51)	1.49	(1.05 - 2.12)
Region 34	4.49	(3.33 - 6.04)	2.31	(1.71 - 3.13)	1.42	(0.98 - 2.05)
Region 37 (Montgomery)	5.52	(4.25 - 7.14)	2.78	(2.01 - 3.84)	1.40	(0.99 - 1.98)
Region 38 (Northampton)	5.65	(4.20 - 7.56)	2.54	(1.86 - 3.47)	1.48	(1.05 - 2.07)
Region 49	4.95	(3.68 - 6.61)	2.26	(1.64 - 3.10)	1.31	(0.91 - 1.88)

NOTE: For Substate Region definitions, see Section D of the report on Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

¹ Any Illicit Drug includes marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used nonmedically. Any Illicit Drug Other Than Marijuana includes cocaine (including crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used nonmedically.

Table 39.3 Alcohol Use in Past Month, Binge Alcohol Use in Past Month, and Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week in Pennsylvania among Persons Aged 12 or Older, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

	Alcohol Use in Past Month				Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week	
State/Substate Region	Estimate	95% Prediction Interval	Estimate	95% Prediction Interval	Estimate	95% Prediction Interval
Pennsylvania	48.80	(47.23 - 50.37)	22.06	(20.94 - 23.22)	40.85	(39.37 - 42.34)
Regions 1, 27, and 47	52.50	(48.74 - 56.24)	24.06	(21.49 - 26.82)	40.03	(36.73 - 43.42)
Regions 2, 3, 8, and 9	47.17	(42.66 - 51.73)	21.81	(19.00 - 24.91)	37.54	(33.64 - 41.60)
Regions 4 and 42	46.98	(41.75 - 52.28)	22.13	(18.84 - 25.81)	40.91	(36.25 - 45.74)
Regions 5 and 28	39.63	(33.86 - 45.71)	19.94	(16.51 - 23.89)	39.90	(35.24 - 44.76)
Regions 6, 16, and 39	41.16	(35.66 - 46.88)	20.14	(16.84 - 23.91)	39.04	(34.50 - 43.78)
Region 7 (Bucks)	58.81	(53.76 - 63.68)	22.53	(19.15 - 26.31)	39.45	(34.89 - 44.20)
Regions 10, 15, and 25	45.41	(39.72 - 51.23)	23.48	(19.63 - 27.83)	36.71	(32.03 - 41.65)
Regions 11, 29, 44, and 48	50.66	(45.15 - 56.15)	23.66	(20.06 - 27.69)	38.21	(33.75 - 42.88)
Regions 12, 35, 41, and 45	50.02	(44.94 - 55.09)	25.72	(22.23 - 29.56)	37.36	(33.12 - 41.81)
Region 13 (Chester)	59.64	(54.03 - 65.00)	22.84	(19.14 - 27.03)	39.62	(34.96 - 44.49)
Regions 14, 31, 36, and 46	44.12	(38.24 - 50.16)	20.91	(17.50 - 24.77)	41.07	(36.19 - 46.13)
Regions 17, 24, and 43	45.03	(40.10 - 50.05)	21.80	(18.54 - 25.45)	43.99	(39.50 - 48.59)
Region 18 (Philadelphia)	41.52	(37.60 - 45.54)	21.27	(18.61 - 24.21)	46.43	(42.85 - 50.05)
Regions 19 and 23	46.33	(40.83 - 51.92)	22.52	(19.04 - 26.42)	38.52	(34.05 - 43.19)
Regions 20, 26, and 40	42.29	(37.31 - 47.44)	18.16	(15.32 - 21.41)	40.95	(36.74 - 45.30)
Regions 21 and 32	45.26	(39.89 - 50.74)	18.38	(15.19 - 22.07)	42.88	(38.38 - 47.51)
Region 22 (Delaware)	56.53	(51.40 - 61.53)	22.51	(18.96 - 26.50)	39.43	(35.23 - 43.79)
Region 30 (Lancaster)	47.59	(42.27 - 52.98)	21.34	(18.14 - 24.92)	41.41	(36.91 - 46.07)
Region 33 (Lehigh)	51.76	(45.58 - 57.88)	21.66	(18.10 - 25.71)	40.52	(35.38 - 45.87)
Region 34	50.65	(44.48 - 56.80)	23.84	(20.13 - 28.01)	39.08	(34.58 - 43.78)
Region 37 (Montgomery)	56.32	(51.45 - 61.08)	22.73	(19.54 - 26.28)	42.27	(38.06 - 46.59)
Region 38 (Northampton)	52.66	(46.39 - 58.84)	23.11	(19.25 - 27.47)	37.91	(33.08 - 42.99)
Region 49	44.45	(39.54 - 49.47)	18.78	(15.75 - 22.23)	41.20	(36.89 - 45.66)

NOTE: For Substate Region definitions, see Section D of the report on Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

¹ 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.

Table 39.4 Cigarette Use in Past Month, Any Tobacco Product Use in Past Month, and Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day in Pennsylvania among Persons Aged 12 or Older, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

	Cigarette Use in Past Month			acco Product Use Past Month ¹	Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day	
State/Substate Region	Estimate	95% Prediction Interval	Estimate	95% Prediction Interval	Estimate	95% Prediction Interval
Pennsylvania	26.26	(25.01 - 27.55)	31.68	(30.35 - 33.04)	66.50	(65.13 - 67.85)
Regions 1, 27, and 47	27.99	(25.08 - 31.10)	33.74	(30.62 - 37.00)	62.00	(58.53 - 65.34)
Regions 2, 3, 8, and 9	25.25	(22.04 - 28.75)	33.46	(29.86 - 37.27)	65.71	(61.72 - 69.50)
Regions 4 and 42	24.15	(20.68 - 28.00)	30.67	(26.67 - 34.99)	66.89	(62.54 - 70.97)
Regions 5 and 28	27.28	(23.16 - 31.83)	33.39	(28.92 - 38.18)	65.17	(60.10 - 69.91)
Regions 6, 16, and 39	28.06	(23.88 - 32.65)	34.55	(30.06 - 39.33)	67.24	(62.67 - 71.50)
Region 7 (Bucks)	23.11	(19.75 - 26.86)	27.12	(23.44 - 31.15)	67.08	(62.41 - 71.44)
Regions 10, 15, and 25	28.96	(24.68 - 33.66)	38.11	(33.13 - 43.35)	64.36	(59.43 - 69.00)
Regions 11, 29, 44, and 48	26.98	(23.27 - 31.05)	32.08	(28.03 - 36.43)	65.75	(60.94 - 70.25)
Regions 12, 35, 41, and 45	28.36	(24.59 - 32.46)	33.78	(29.66 - 38.15)	65.67	(61.17 - 69.91)
Region 13 (Chester)	23.08	(19.43 - 27.19)	28.70	(24.56 - 33.23)	68.88	(64.18 - 73.22)
Regions 14, 31, 36, and 46	27.14	(22.94 - 31.80)	32.91	(28.15 - 38.04)	65.79	(60.72 - 70.53)
Regions 17, 24, and 43	28.81	(24.90 - 33.05)	35.67	(31.38 - 40.20)	64.40	(59.82 - 68.73)
Region 18 (Philadelphia)	29.39	(25.98 - 33.05)	32.57	(29.03 - 36.31)	69.72	(66.15 - 73.06)
Regions 19 and 23	26.40	(22.40 - 30.83)	31.95	(27.46 - 36.80)	66.18	(61.42 - 70.64)
Regions 20, 26, and 40	23.69	(20.52 - 27.19)	29.53	(25.75 - 33.61)	65.17	(60.61 - 69.48)
Regions 21 and 32	25.47	(21.59 - 29.78)	30.48	(26.25 - 35.08)	67.69	(63.31 - 71.78)
Region 22 (Delaware)	24.56	(21.07 - 28.42)	28.83	(24.85 - 33.17)	67.45	(62.98 - 71.62)
Region 30 (Lancaster)	23.85	(20.46 - 27.62)	28.88	(25.04 - 33.04)	69.04	(64.66 - 73.10)
Region 33 (Lehigh)	25.90	(21.84 - 30.43)	30.07	(25.71 - 34.81)	66.54	(61.46 - 71.26)
Region 34	29.24	(24.88 - 34.01)	34.10	(29.44 - 39.08)	64.64	(59.46 - 69.49)
Region 37 (Montgomery)	21.54	(18.54 - 24.87)	26.32	(22.83 - 30.14)	72.13	(67.90 - 75.99)
Region 38 (Northampton)	23.96	(20.22 - 28.15)	29.56	(25.17 - 34.37)	64.48	(59.11 - 69.52)
Region 49	25.67	(22.22 - 29.45)	32.17	(28.06 - 36.58)	65.74	(61.20 - 70.00)

NOTE: For Substate Region definitions, see Section D of the report on Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health.

NOTE: Estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

¹ Any Tobacco product includes cigarettes, smokeless tobacco (i.e., chewing tobacco or snuff), cigars, or pipe tobacco.

Figure 39.1.1 *Marijuana Use in Past Month* among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

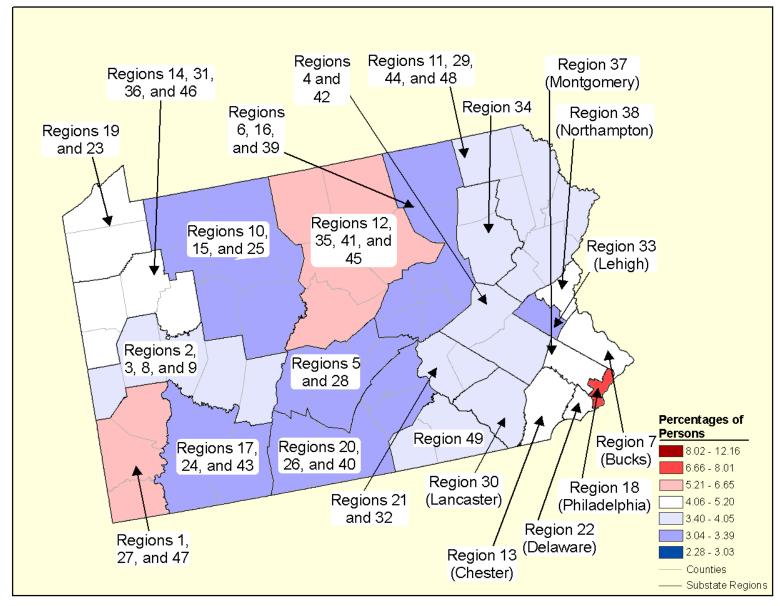


Figure 39.1.2 First Use of Marijuana among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Average Annual Rates Based on 1999, 2000, and 2001 NSDUHs

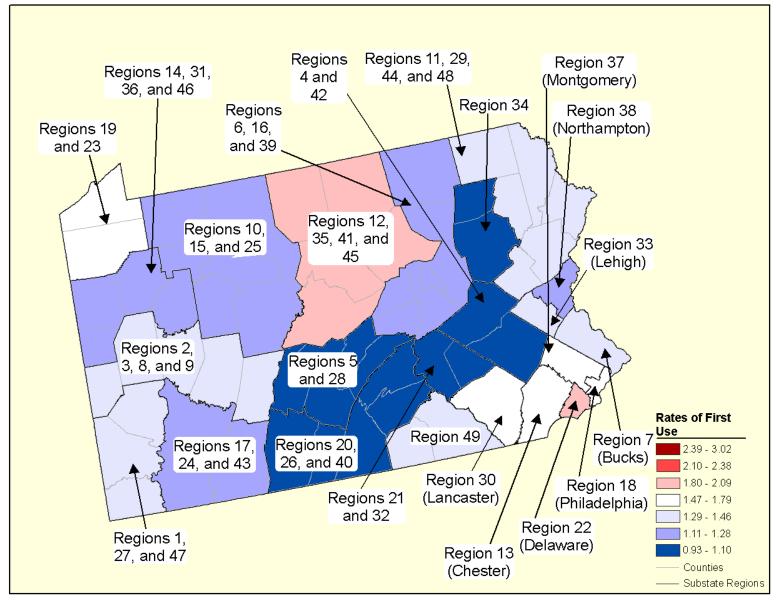


Figure 39.1.3 Perceptions of Great Risk of Smoking Marijuana Once a Month among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

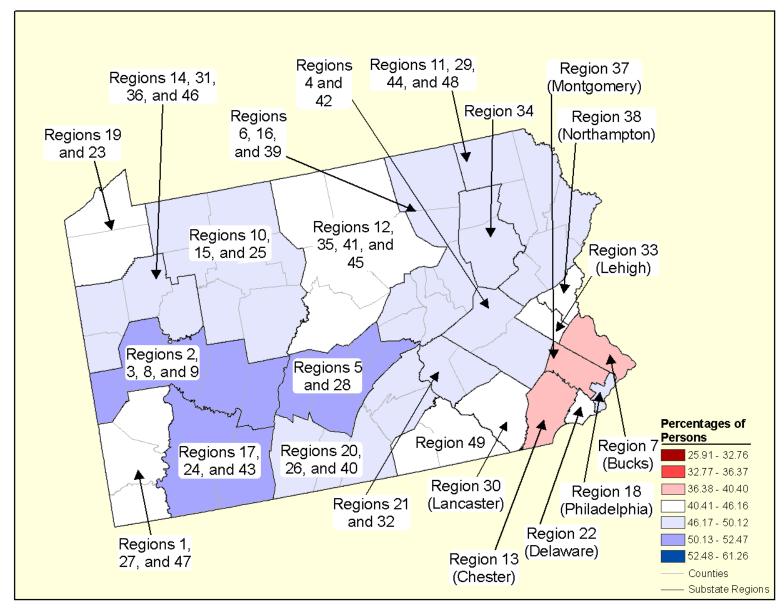


Figure 39.2.1 Any Illicit Drug Use in Past Month among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

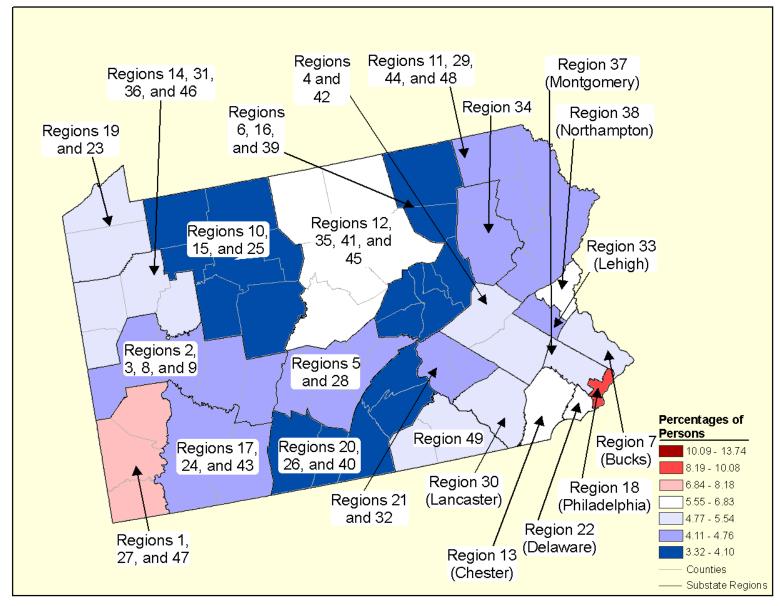


Figure 39.2.2 Any Illicit Drug Use Other Than Marijuana in Past Month among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

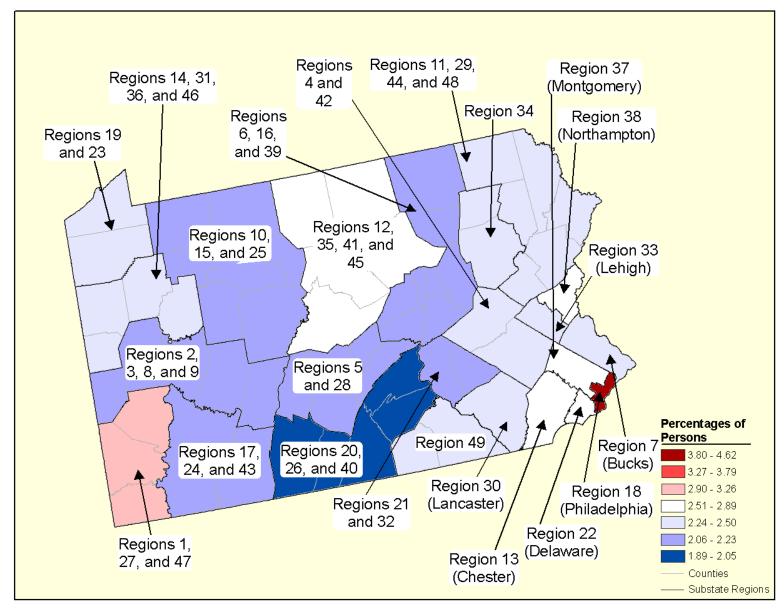


Figure 39.2.3 Cocaine Use in Past Year among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

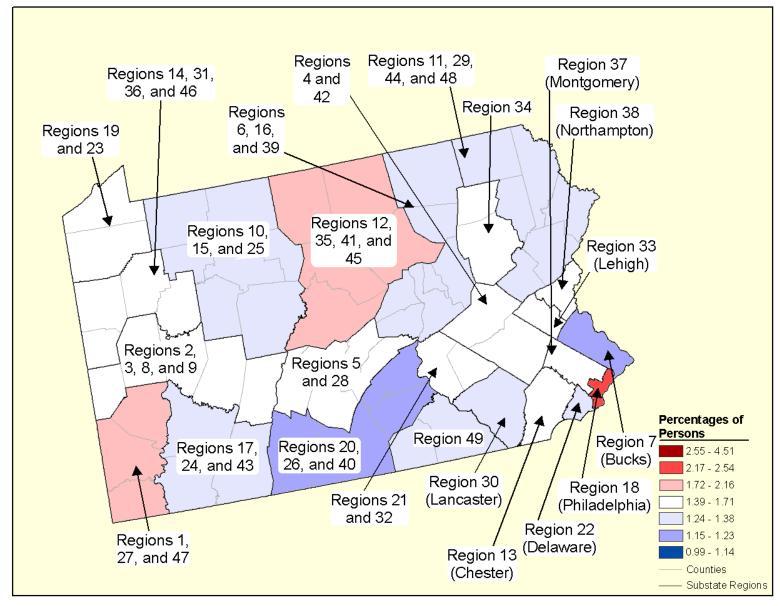
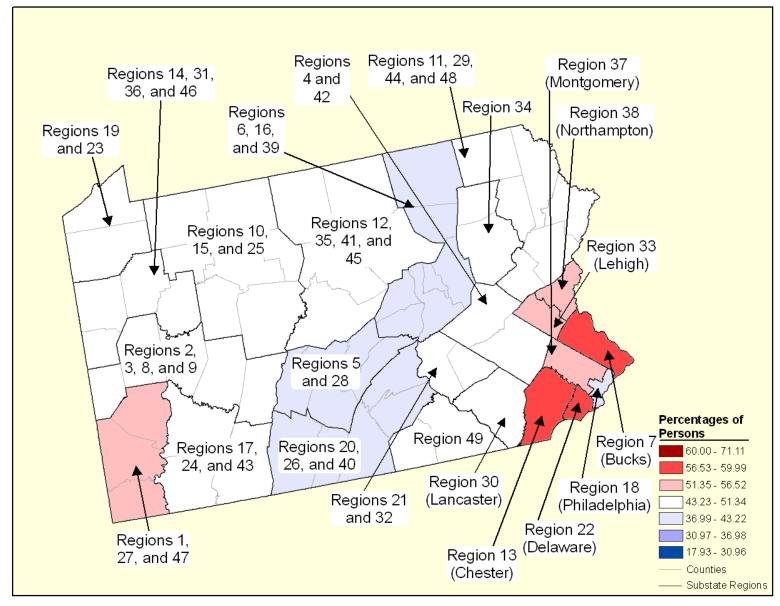


Figure 39.3.1 Alcohol Use in Past Month among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs



NOTE: The legend's ranges were created by dividing 331 substate regions, nationally, into 7 groups based on the magnitude of their percentages. For substate region definitions, see Section D of the report on *Substate Estimates from the 1999-2001 National Surveys on Drug Use and Health*.

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 1999, 2000, and 2001.

Figure 39.3.2 *Binge Alcohol Use in Past Month* among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

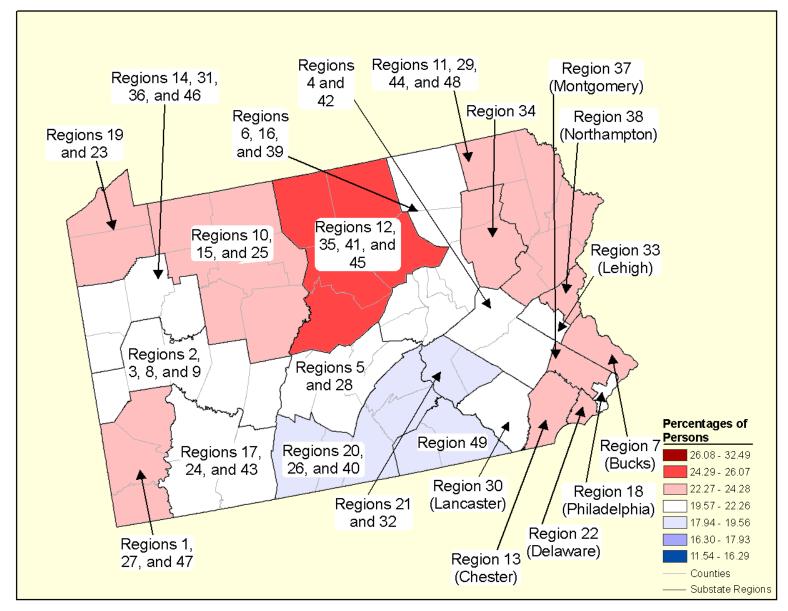


Figure 39.3.3 Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

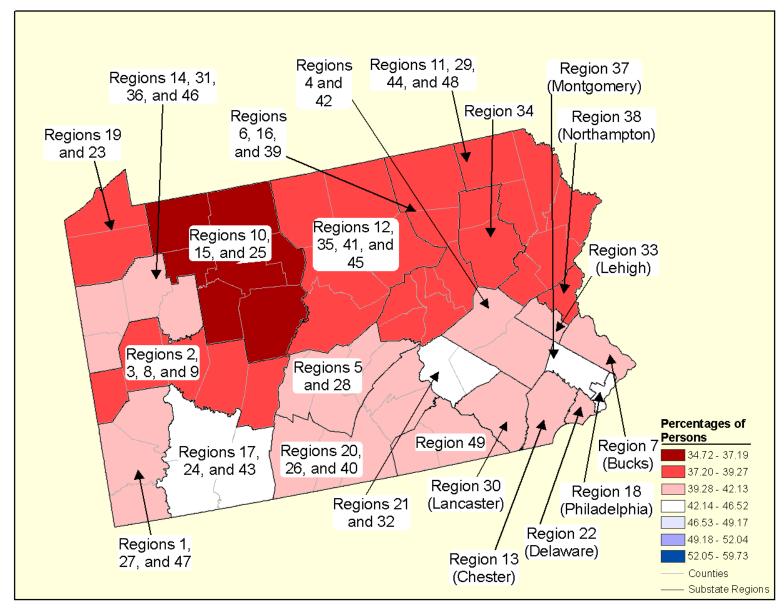


Figure 39.4.1 Cigarette Use in Past Month among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

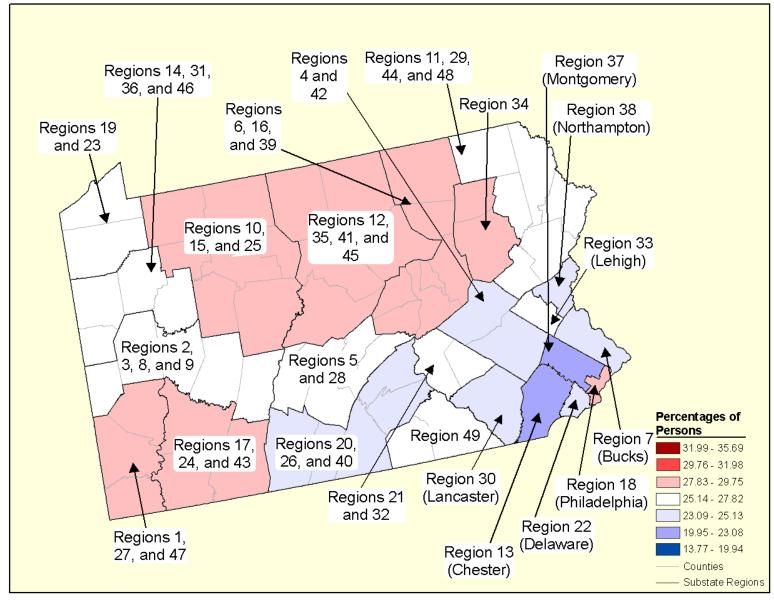


Figure 39.4.2 Any Tobacco Product Use in Past Month among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

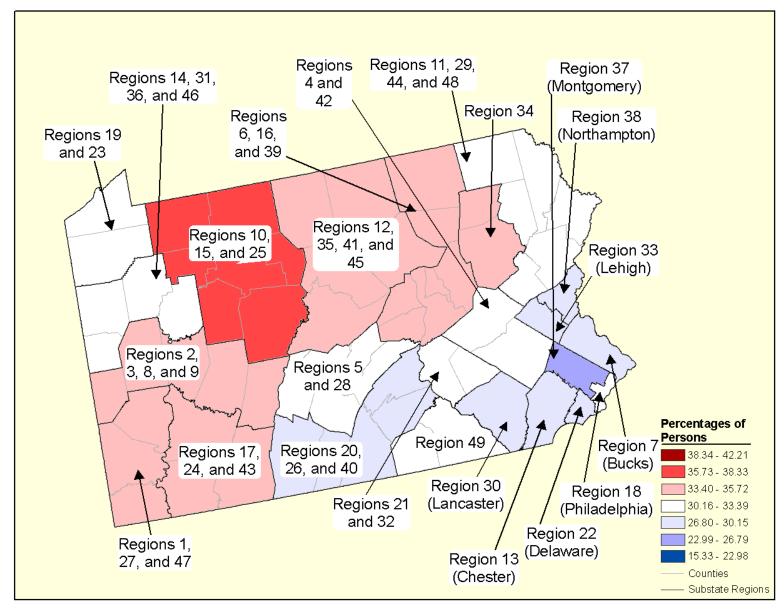


Figure 39.4.3 Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day among Persons Aged 12 or Older in Pennsylvania, by Substate Region: Percentages, Annual Averages Based on 1999, 2000, and 2001 NSDUHs

