

Vermont Mental Health Performance Indicator Project

Agency of Human Services, Department of Mental Health
26 Terrace Street, Montpelier, Vermont 05602

TO: Vermont Mental Health Performance Indicator Project
Advisory Group and Interested Parties

FROM: John Pandiani and Walter Ochs

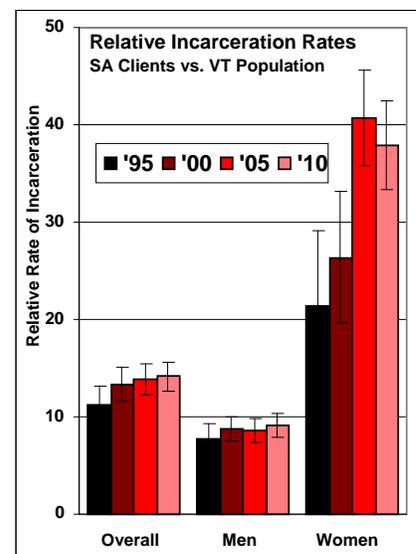
DATE: October 21, 2011

RE: Incarceration after Substance Abuse Services by Gender

This brief report complements our August 5 report¹ that found substantial increases in rates of incarceration after receipt of substance abuse (SA) services from Department of Mental Health (DMH) designated agencies during 1995 through 2010. In order to help better understand that increase, this report provides information which compares rates of incarceration for substance abuse service recipients to rates of incarceration for the general population, overall, and for men and women during this same period.

This report is based on analysis of anonymous extracts from databases maintained by DMH, and the Vermont Department of Corrections (DOC), and United States Census data. DMH and DOC data include the date of birth and gender of individuals served. Because these data sets do not share unique person identifiers, Probabilistic Population Estimation (PPE) was used to determine the unduplicated number of people shared by the two data sets. Total numbers of adult residents are from the United States Census. Comparisons of incarceration rates for SA service recipients and adult residents are reported as a relative rate. Relative rates are the ratios of incarceration rates for SA recipients to incarceration rates for the general population. A relative rate of '1' indicates no difference between service recipients and the general population. A relative rate of '10' indicates that service recipients were ten times as likely as members of the general population to be incarcerated.

This analysis indicates that, overall, the relative rate of incarceration for SA service recipients increased from 11 times the general population in 1995 to 14 times the general population in 2010. There were substantial differences between male and female service recipients in relative rate of incarceration. The relative rate of incarceration for male service recipients increased only slightly from 8 times the rate for men in the general population in 1995 to 9 times the rate for men in general population in 2010. During this same time period, the relative rate of incarceration for female service recipients increased substantially from about 20 times the rate for women in the general population in 1995 to about 40 times the rate for women in the general population in 2005 and 2010.



We look forward to your interpretation of these findings, your questions and comments, and your requests for further analyses. As always, we can be reached at pip@ahs.state.vt.us.

¹http://mentalhealth.vermont.gov/sites/dmh/files/pip/DMH-PIP_Aug_5_2011.pdf

Incarceration after Services Substance Abuse Service Recipients by Gender FY1995-2010

	Substance Abuse Service Recipients			Vermont Adult Population			Relative Rate*
	Total	Incarcerated		Total	Incarcerated		
<u>Overall</u>	#	#	%	#	#	%	
1995	2,971 ± 29	378 ± 67	12.7% ± 2.3%	439,350	4,986 ± 65	1.1% ± 0.01%	11.2 ± 2.0
2000	3,829 ± 39	677 ± 87	17.7% ± 2.3%	457,215	6,080 ± 78	1.3% ± 0.02%	13.3 ± 1.7
2005	4,465 ± 46	858 ± 99	19.2% ± 2.2%	484,956	6,736 ± 83	1.4% ± 0.02%	13.8 ± 1.6
2010	4,253 ± 40	847 ± 89	19.9% ± 2.1%	495,485	6,961 ± 82	1.4% ± 0.02%	14.2 ± 1.5
<u>Men</u>							
1995	2,032 ± 26	343 ± 66	16.9% ± 3.2%	211,704	4,583 ± 65	2.2% ± 0.03%	7.8 ± 1.5
2000	2,817 ± 36	601 ± 85	21.3% ± 3.0%	220,589	5,407 ± 78	2.5% ± 0.04%	8.7 ± 1.2
2005	3,072 ± 42	653 ± 96	21.3% ± 3.1%	235,545	5,837 ± 82	2.5% ± 0.03%	8.6 ± 1.3
2010	2,796 ± 35	629 ± 85	22.5% ± 3.1%	241,373	5,960 ± 80	2.5% ± 0.03%	9.1 ± 1.2
<u>Women</u>							
1995	939 ± 12	36 ± 13	3.8% ± 1.4%	227,646	403 ± 6	0.2% ± 0.00%	21.4 ± 7.8
2000	1,012 ± 13	76 ± 19	7.5% ± 1.9%	236,626	673 ± 9	0.3% ± 0.00%	26.4 ± 6.7
2005	1,393 ± 19	204 ± 24	14.7% ± 1.8%	249,411	899 ± 12	0.4% ± 0.00%	40.7 ± 4.9
2010	1,457 ± 19	217 ± 26	14.9% ± 1.8%	254,112	1,001 ± 13	0.4% ± 0.01%	37.9 ± 4.6

*A relative rate of '1' would indicate no difference between service recipient and general population incarceration rates. A relative rate of '10' would indicate that service recipients were ten times as likely as members of the general population to be incarcerated.

Analysis based on data provided by the Vermont Department of Corrections, Monthly Service Report (MSR) data provided by the designated agencies, and Vermont population information from the US Census. Corrections data include incarcerated adults during FY1995, FY2000, FY2005, and FY2010. MSR data include adults served by substance abuse programs during FY1994, FY1999, FY2004, and FY2009. Because data sets used in this analysis do not share unique person identifiers, Probabilistic Population Estimation was used to determine caseload size and overlap (with 95% confidence intervals).