

## Vermont Mental Health Performance Indicator Project

Vermont Agency of Human Services, Department of Mental Health  
103 South Main Street, Waterbury, Vermont 05671

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

FROM: John Pandiani and Walter Ochs

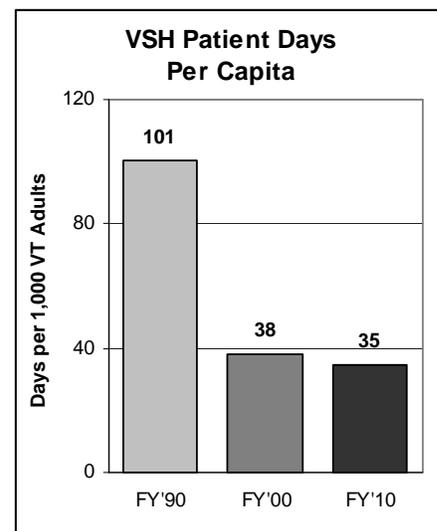
DATE: December 10, 2010

RE: VSH Per Capita Patient Days by Region: 1990, 2000 & 2010

This brief report complements our December 3 report<sup>1</sup> on total Vermont State Hospital (VSH) utilization (total patient days) for each region of Vermont. This report provides per capita VSH utilization rates (days per 1,000 population), statewide and for each of Vermont's ten community mental health service areas in response to requests from three readers: Bob Bick (The Howard Center), Patrick Kinner (VSH Director of Therapeutic and Recovery Services), and Julie Tessler (Vermont Council of Developmental and Mental Health Services).

For this analysis, data regarding VSH patient days for each of Vermont's ten community mental health service areas were extracted from the Vermont State Hospital database for the years under examination, and data regarding the adult population of each service area were obtained from the United States Census. Per capita VSH utilization rates (days per 1,000 population) is the total number of patient days for each service area, divided by the number of adults residents, and multiplied by one thousand. This analysis includes patient days during each fiscal year, including the day of admission but excluding the day of discharge.

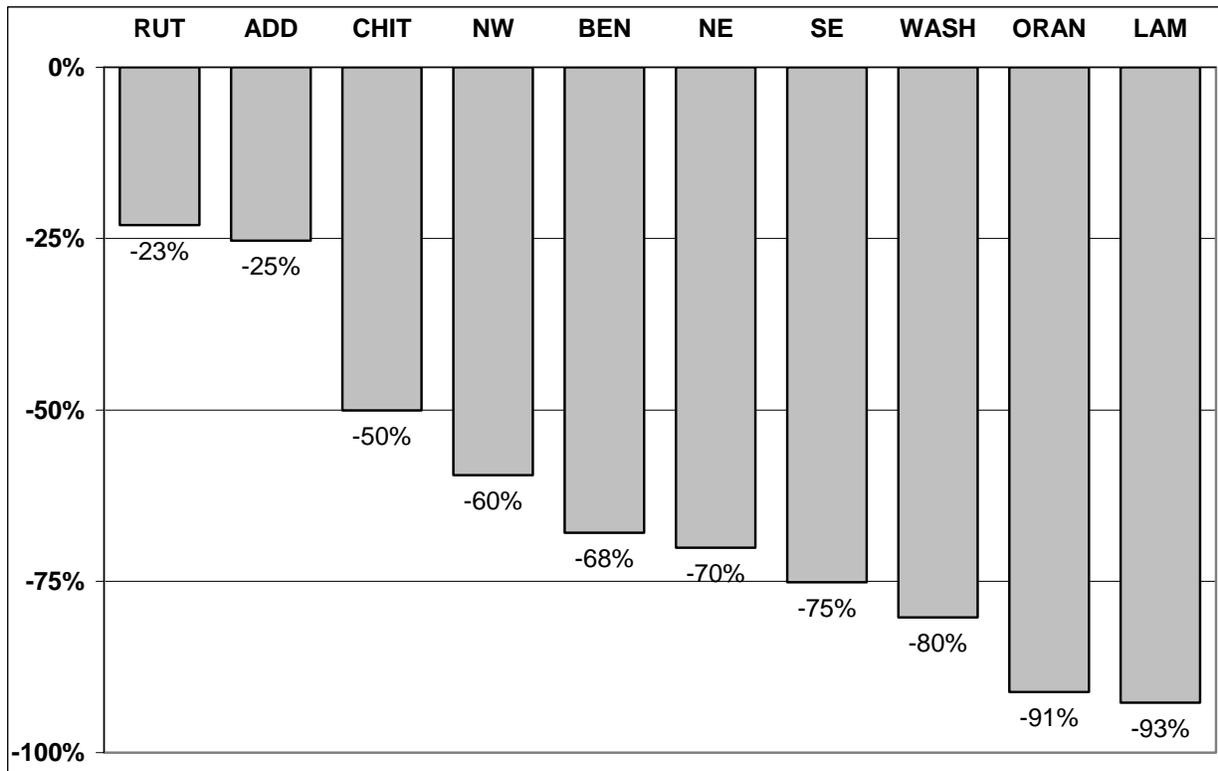
As you will see, in 1990, Vermont State Hospital averaged 101 patient days per 1,000 Vermont residents, but that utilization rate decreased to 38 patient days per 1,000 Vermont residents in 2000 and to 35 patient days per 1,000 Vermont residents in 2010. This represents a 66% decrease in per capita state hospital utilization during the period under examination. There was, however, substantial variation among Vermont's service areas with regard to change in per capita VSH utilization. The greatest decreases were in Lamoille County (-93%), Washington County (-91%), and Orange County (-80%). The smallest decreases were in and Rutland County (-23%) and Addison County (-25%).



We look forward to your questions, comments, and suggestions for further analyses. As always, we can be reached at [pip@ahs.state.vt.us](mailto:pip@ahs.state.vt.us) or 802.241.4049.

<sup>1</sup> [http://mentalhealth.vermont.gov/sites/dmh/files/pip/DMH-PIP\\_Dec\\_3\\_2010.pdf](http://mentalhealth.vermont.gov/sites/dmh/files/pip/DMH-PIP_Dec_3_2010.pdf)

## Vermont State Hospital Patient Days Per Capita Percent Change by Region: FY1990 - FY2010



Region	Days per 1,000 Population			Percent Change
	FY1990	FY2000	FY2010	FY1990-2010
Lamoille	210	18	15	-93%
Orange	122	63	11	-91%
Washington	170	45	34	-80%
Southeast	111	27	28	-75%
Northeast	85	41	25	-70%
Bennington	78	22	25	-68%
Northwest	68	35	27	-60%
Chittenden	99	59	49	-50%
Addison	44	27	33	-25%
Rutland	63	16	48	-23%
<b>Statewide</b>	<b>101</b>	<b>38</b>	<b>35</b>	<b>-66%</b>

Analysis based on extracts from the Vermont State Hospital (VSH) treatment episode database and population counts of Vermont adults from the United States Census Bureau. VSH data include all patient days by catchment area during each fiscal year. FY1990 adult population data based on the 1990 census counts. FY2000 adult population data based on the 2000 census counts. FY2010 adult population data based on census estimates for 2008 provided by the Vermont Department of Health.

## Vermont State Hospital Patient Days Per Capita by Region: FY1990, FY2000 & FY2010

Region	FY1990			FY2000			FY2010		
	Adult Population	VSH Days	Days per 1,000 Pop	Adult Population	VSH Days	Days per 1,000 Pop	Adult Population	VSH Days	Days per 1,000 Pop
Chittenden	100,766	9,963	<b>99</b>	112,058	6,562	<b>59</b>	120,406	5,943	<b>49</b>
Southeast	71,553	7,977	<b>111</b>	77,821	2,113	<b>27</b>	80,098	2,221	<b>28</b>
Washington	40,946	6,963	<b>170</b>	44,403	1,979	<b>45</b>	47,060	1,578	<b>34</b>
Northeast	42,063	3,558	<b>85</b>	46,668	1,910	<b>41</b>	50,870	1,286	<b>25</b>
Lamoille	14,647	3,082	<b>210</b>	17,588	319	<b>18</b>	19,504	299	<b>15</b>
Rutland	47,080	2,962	<b>63</b>	48,661	770	<b>16</b>	51,101	2,475	<b>48</b>
Orange	18,894	2,300	<b>122</b>	20,997	1,327	<b>63</b>	23,027	248	<b>11</b>
Northwest	32,065	2,168	<b>68</b>	37,847	1,328	<b>35</b>	42,266	1,157	<b>27</b>
Bennington	26,827	2,093	<b>78</b>	28,236	624	<b>22</b>	29,067	728	<b>25</b>
Addison	24,344	1,073	<b>44</b>	27,025	743	<b>27</b>	28,941	953	<b>33</b>
<i>Unknown</i>	-	-	-	-	-	-	-	107	-
<b>Statewide</b>	163,857	13,678	<b>83</b>	180,354	5,111	<b>28</b>	193,906	5,967	<b>31</b>

Analysis based on extracts from the Vermont State Hospital (VSH) treatment episode database and population counts of Vermont adults from the United States Census Bureau. VSH data include all patient days by catchment area during each fiscal year. FY1990 adult population data based on the 1990 census counts. FY2000 adult population data based on the 2000 census counts. FY2010 adult population counts based on census estimates for 2008 provided by the Vermont Department of Health.