

# VT99 Underhill



*Photo by Miriam Pendleton*











*Photo by Timothy Perkins*

VT99 is located at the Proctor Maple Research Center (PMRC) in Underhill Center, Vermont. PMRC is operated by the University of Vermont Botany Department. Besides maple research and botany, PMRC hosts many different research projects, including air quality. The air quality site is operated by the Vermont Monitoring Co-op (VMC). The VMC monitors mercury in cooperation with the University of Michigan air quality lab, has a USDA/UVB site, and a state-operated acid deposition monitoring program, Vermont Acid Precipitation Monitoring Program. The site also records temperature, relative humidity, barometric pressure, windspeed and direction. The VMC also funds a stairway-type forest canopy research tower which is one unique aspect of the site. Pictured above left is a view of Mt. Mansfield, the tallest mountain in the state, taken from near the top of the tower looking east.

Another unique aspect of the PMRC is that there is a working sugarbush and sugarhouse. Every spring the sugar maple trees are tapped, and under the right combination of warm days and freezing nights, the sap flows under vacuum through tubing to the sugarhouse. In the sugarhouse, water is evaporated from the sap to make pure maple syrup. It takes about 40 gallons of sap to make one gallon of maple syrup. Above right is a picture of the Sumner Hill Williams Sugarhouse, named in honor of longtime NADP operator Sumner Williams. Sumner, as sugaring operations manager, designed and built the sugarhouse with the assistance of PMRC staff and volunteers and a number of local companies and individuals.

NTN samples have been collected at VT99 since June 12, 1984, and Atmospheric Integrated Research Monitoring Network (AIRMoN) samples have been collected at the site since January 27, 1993. Carl Waite supervises the NTN and AIRMoN sites, and Miriam Pendleton operates the sites. The NTN site is sponsored by the U.S. Geological Survey (USGS) and operated by the USGS and the State Agricultural Experiment Station at the University of Vermont. The National Oceanic and Atmospheric Administration Air Resources Laboratory sponsors and operates the AIRMoN site.

*Site information by Miriam Pendleton.* PMRC web site: <http://www.uvm.edu/~pmrc/>

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday							
December 2003						<h1>January 2004</h1>						February 2004							
S	M	T	W	T	F							S	S	M	T	W	T	F	S
1	2	3	4	5	6							1	2	3	4	5	6	7	
7	8	9	10	11	12							13	8	9	10	11	12	13	14
14	15	16	17	18	19	20	15	16	17	18	19	20	21						
21	22	23	24	25	26	27	22	23	24	25	26	27	28						
28	29	30	31							29									
<p>Please see the procedure pages at the back of the CALENDAR for instructions on changing the dry-side bucket and cleaning the foam lid seal.</p>  <p>Questions? Call the CAL at 1-800-952-7353 or visit <a href="http://nadp.sws.uiuc.edu/cal/">http://nadp.sws.uiuc.edu/cal/</a></p>						<p><b>1</b>  001/365 <b>HAPPY NEW YEAR</b> (CAL CLOSED)</p>		<p><b>2</b>  002/364 <b>Happy 25th Birthday MN27!</b></p>		<p><b>3</b> 003/363</p>									
<b>4</b> 004/362	<b>5</b> 005/361	<b>6</b>  006/360 <i>Change dry-side bucket and clean foam lid seal</i>	<b>7</b> 007/359	<b>8</b> 008/358	<b>9</b> 009/357	<b>10</b> 010/356													
<b>11</b> 011/355	<b>12</b> 012/354	<b>13</b> 013/353	<b>14</b> 014/352	<b>15</b> 015/351	<b>16</b> 016/350	<b>17</b> 017/349													
<b>18</b> 018/348	<b>19</b>  019/347 <b>Martin Luther King, Jr. Day</b> (CAL CLOSED)	<b>20</b> 020/346	<b>21</b> 021/345	<b>22</b> 022/344	<b>23</b> 023/343	<b>24</b>  024/342 <b>Happy 20th Birthday MT07 &amp; NM08!</b>													
<b>25</b> 025/341	<b>26</b>  026/340 <b>Happy 5th Birthday CT15, FL23, IL46, MI51, MI52, NC06, OH15, OH54, PA00, TN04, VA24, WI35, &amp; WV05!</b>	<b>27</b> 027/339	<b>28</b> 028/338	<b>29</b> 029/337	<b>30</b>  030/336 <b>Happy 25th Birthday IL63!</b>	<b>31</b> 031/335													