

# RESERVOIR REPORT

WISCONSIN VALLEY IMPROVEMENT COMPANY

FOR WEEK ENDING 15-Jan-2017

| Name                             | Capacity in Millions of Cubic Feet |        | Water Elevation | Millions of Cubic Feet |      |      | Gates (Inches)<br>G:=Gate O:=Overflow |
|----------------------------------|------------------------------------|--------|-----------------|------------------------|------|------|---------------------------------------|
|                                  | Winter                             | Summer |                 | In Res                 | Gain | Loss |                                       |
| Lac Vieux Desert                 | 652                                | 652    | 1,680.28        | 179                    | 2    |      | 8.0                                   |
| Twin Lakes                       | 313                                | 261    | 1,681.80        | 192                    |      | 6    | 4.0                                   |
| Buckatabon                       | 130                                | 130    | 1,640.02        | 63                     |      | 13   | 5.0                                   |
| Long-On-Deerskin                 | 400                                | 332    | 1,697.20        | 142                    | 2    |      | 2.0                                   |
| Little Deerskin                  | 22                                 | 22     | 1,641.24        | 9                      |      |      | 9.0                                   |
| Seven Mile                       | 93                                 | 93     | 1,649.60        | 81                     |      |      | 1.0                                   |
| Lower Nine Mile                  | 121                                | 121    | 1,640.30        | 20                     | 20   |      | 4.0                                   |
| Burnt Rollways                   | 779                                | 471    | 1,624.50        | 392                    |      | 21   | 10.0                                  |
| Sugar Camp                       | 471                                | 180    | 1,594.75        | 193                    |      | 23   | 18.0                                  |
| Little St. Germain               | 79                                 | 79     | 1,612.95        | 39                     |      | 2    | 5.5                                   |
| Big St. Germain                  | 202                                | 91     | 1,589.28        | 75                     |      | 5    | 24.0, 12.0                            |
| Pickernel                        | 337                                | 92     | 1,588.79        | 221                    |      | 3    | 15.0                                  |
| Rainbow                          | 2,185                              | 2,185  | 1,593.33        | 1,521                  |      | 124  | 24.0                                  |
| North Pelican                    | 218                                | 0      | 1,567.70        | 60                     |      | 14   | 26.0, 4.0                             |
| South Pelican                    | 305                                | 77     | 1,590.98        | 152                    |      | 12   | 24.0, 12.0                            |
| Minocqua                         | 628                                | 283    | 1,583.92        | 310                    |      | 11   | 24.0                                  |
| Squirrel                         | 182                                | 165    | 1,563.86        | 98                     |      | 5    | 7.5                                   |
| Willow                           | 3,302                              | 3,302  | 1,524.97        | 2,087                  |      | 130  | 26.0                                  |
| Rice                             | 1,808                              | 1,808  | 1,459.82        | 1,173                  |      | 63   | 20.0, 12.0                            |
| Spirit                           | 756                                | 756    | 1,431.38        | 279                    |      | 12   | 2.0                                   |
| Total Upper System               | 12,983                             | 11,100 |                 | 7,277                  | 24   | 444  |                                       |
| Net Storage Change Upper System  |                                    |        |                 |                        |      | 420  |                                       |
| Percent in Storage Upper System  |                                    |        |                 | 56.05                  |      |      |                                       |
| Big Eau Pleine                   | 4,457                              | 4,457  | 1,142.46        | 3,582                  |      | 202  | 10.0                                  |
| Total Entire System              | 17,440                             | 15,557 |                 | 10,859                 | 24   | 646  |                                       |
| Net Storage Change Entire System |                                    |        |                 |                        |      | 622  |                                       |
| Percent in Storage Entire System |                                    |        |                 | 62.26                  |      |      |                                       |

| Year | Millions of Cubic Feet in Storage |               |
|------|-----------------------------------|---------------|
|      | Upper System                      | Entire System |
| 2008 | 4,598                             | 6,053         |
| 2009 | 3,055                             | 4,035         |
| 2010 | 3,723                             | 5,806         |
| 2011 | 7,864                             | 11,289        |
| 2012 | 4,595                             | 7,371         |
| 2013 | 4,756                             | 6,675         |
| 2014 | 7,464                             | 10,635        |
| 2015 | 6,881                             | 10,222        |
| 2016 | 8,776                             | 12,945        |
| 2017 | 7,277                             | 10,859        |

| Weekly Average Flow Analysis |         |          |             |          |
|------------------------------|---------|----------|-------------|----------|
| Item                         | Merrill |          | Wis. Rapids |          |
|                              | MCF     | Avg. CFS | MCF         | Avg. CFS |
| Gain In Storage              |         |          |             |          |
| Loss In Storage              | 420     | 694      | 622         | 1,028    |
| Regulated Flow               |         | 3,653    |             |          |
| Net Used Release             | 420     | 694      | 622         | 1,028    |
| Natural Flow                 |         | 2,959    |             |          |

PROVISIONAL DATA SUBJECT TO REVISION

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### Authorized Reservoir Water Level Limits

| Reservoir          | Winter  |         | Summer  |         | Reservoir     | Winter           |         | Summer          |                 |
|--------------------|---------|---------|---------|---------|---------------|------------------|---------|-----------------|-----------------|
|                    | Maximum | Minimum | Maximum | Minimum |               | Maximum          | Minimum | Maximum         | Minimum         |
| Lac Vieux Desert   | 1680.90 | 1679.36 | 1680.90 | 1679.36 | Pickerel      | 1590.34          | 1581.34 | 1590.34         | 1589.34         |
| Twin Lakes         | 1682.57 | 1680.57 | 1682.57 | 1680.91 |               | Sep 16 to May 31 |         |                 | Jun 1 to Sep 15 |
| Buckatahpon        | 1641.52 | 1638.35 | 1641.52 | 1638.35 | Rainbow       | 1597.05          | 1575.05 | 1597.05         | 1575.05         |
| Long-on-Deerskin   | 1698.43 | 1695.84 | 1698.43 | 1696.51 | North Pelican | 1569.60          | 1566.60 | 1569.10         | 1568.77         |
|                    |         |         |         |         |               | Sep 16 to May 31 |         |                 | Jun 1 to Sep 15 |
| Little Deerskin    | 1642.16 | 1640.49 | 1642.16 | 1640.49 | South Pelican | 1591.98          | 1589.98 | 1591.98         | 1591.48         |
| Seven Mile         | 1650.14 | 1645.81 | 1650.14 | 1645.81 |               | Nov 1 to Mar 31  |         | Apr 1 to Oct 31 |                 |
| Lower Nine Mile    | 1643.76 | 1639.18 | 1643.76 | 1639.18 | Minocqua      | 1585.05          | 1582.72 | 1585.05         | 1584.05         |
| Burnt Rollways     | 1625.71 | 1622.96 | 1625.71 | 1624.21 |               | Oct 1 to May 31  |         | Jun 1 to Sep 30 |                 |
| Sugar Camp         | 1597.82 | 1592.32 | 1597.32 | 1595.32 | Squirrel      | 1564.93          | 1562.51 | 1564.93         | 1562.76         |
|                    |         |         |         |         |               | Oct 1 to May 31  |         | Jun 1 to Sep 30 |                 |
| Little St. Germain | 1613.88 | 1612.05 | 1613.88 | 1612.05 | Willow        | 1529.35          | 1510.85 | 1529.35         | 1510.85         |
| Big St. Germain    | 1591.16 | 1588.16 | 1590.66 | 1589.33 | Rice          | 1463.25          | 1450.00 | 1463.25         | 1450.00         |
|                    |         |         |         |         | Spirit        | 1437.88          | 1424.88 | 1437.88         | 1424.88         |
|                    |         |         |         |         | Eau Pleine    | 1145.43          | 1125.00 | 1145.43         | 1125.00         |