

**2003 Growing Season - Upper Big Blue NRD
Cumulative Crop Water Use In Inches**

| Crop Emergence Date Crop Water Use Dates | CORN | | | SOYBEANS | | SORGHUM |
|--|-------|--------|--------|----------|--------|---------|
| | 5-May | 15-May | 25-May | 15-May | 25-May | 5-June |
| 05/05/03 | 0.0 | | | | | |
| 05/06/03 | 0.0 | | | | | |
| 05/07/03 | 0.1 | | | | | |
| 05/08/03 | 0.1 | | | | | |
| 05/09/03 | 0.1 | | | | | |
| 05/10/03 | 0.1 | | | | | |
| 05/11/03 | 0.1 | | | | | |
| 05/12/03 | 0.1 | | | | | |
| 05/13/03 | 0.2 | | | | | |
| 05/14/03 | 0.2 | | | | | |
| 05/15/03 | 0.2 | 0.0 | | 0.0 | | |
| 05/16/03 | 0.2 | 0.0 | | 0.0 | | |
| 05/17/03 | 0.3 | 0.1 | | 0.1 | | |
| 05/18/03 | 0.3 | 0.1 | | 0.1 | | |
| 05/19/03 | 0.3 | 0.1 | | 0.1 | | |
| 05/20/03 | 0.4 | 0.1 | | 0.1 | | |
| 05/21/03 | 0.4 | 0.2 | | 0.2 | | |
| 05/22/03 | 0.4 | 0.2 | | 0.2 | | |
| 05/23/03 | 0.5 | 0.2 | | 0.2 | | |
| 05/24/03 | 0.5 | 0.2 | | 0.2 | | |
| 05/25/03 | 0.5 | 0.3 | | 0.2 | 0.0 | |
| 05/26/03 | 0.6 | 0.3 | | 0.3 | 0.0 | |
| 05/27/03 | 0.6 | 0.3 | 0.0 | 0.3 | 0.1 | |
| 05/28/03 | 0.7 | 0.4 | 0.1 | 0.4 | 0.1 | |
| 05/29/03 | 0.8 | 0.4 | 0.1 | 0.4 | 0.2 | |
| 05/30/03 | 0.9 | 0.5 | 0.2 | 0.5 | 0.2 | |
| 05/31/03 | 1.0 | 0.6 | 0.2 | 0.5 | 0.2 | |
| 06/01/03 | 1.0 | 0.6 | 0.3 | 0.5 | 0.3 | |
| 06/02/03 | 1.0 | 0.6 | 0.3 | 0.5 | 0.3 | |
| 06/03/03 | 1.0 | 0.6 | 0.3 | 0.6 | 0.3 | |
| 06/04/03 | 1.1 | 0.6 | 0.3 | 0.6 | 0.3 | |
| 06/05/03 | 1.1 | 0.7 | 0.3 | 0.6 | 0.3 | 0.0 |
| 06/06/03 | 1.2 | 0.7 | 0.4 | 0.7 | 0.3 | 0.1 |
| 06/07/03 | 1.3 | 0.8 | 0.4 | 0.7 | 0.4 | 0.1 |
| 06/08/03 | 1.4 | 0.8 | 0.4 | 0.7 | 0.4 | 0.1 |

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|--|-------|--------|--------|----------|--------|---------|
| | 5-May | 15-May | 25-May | 15-May | 25-May | 5-June |
| 06/09/03 | 1.5 | 0.9 | 0.5 | 0.8 | 0.4 | 0.1 |
| 06/10/03 | 1.6 | 1.0 | 0.5 | 0.9 | 0.5 | 0.2 |
| 06/11/03 | 1.8 | 1.1 | 0.6 | 1.0 | 0.5 | 0.2 |
| 06/12/03 | 1.8 | 1.2 | 0.6 | 1.0 | 0.5 | 0.2 |
| 06/13/03 | 1.9 | 1.3 | 0.7 | 1.1 | 0.6 | 0.3 |
| 06/14/03 | 2.1 | 1.4 | 0.7 | 1.1 | 0.6 | 0.3 |
| 06/15/03 | 2.2 | 1.5 | 0.8 | 1.2 | 0.7 | 0.3 |
| 06/16/03 | 2.4 | 1.6 | 0.9 | 1.3 | 0.8 | 0.4 |
| 06/17/03 | 2.6 | 1.7 | 1.0 | 1.4 | 0.9 | 0.4 |
| 06/18/03 | 2.6 | 1.8 | 1.0 | 1.4 | 0.9 | 0.4 |
| 06/19/03 | 2.8 | 2.0 | 1.2 | 1.6 | 1.0 | 0.5 |
| 06/20/03 | 3.0 | 2.1 | 1.3 | 1.7 | 1.1 | 0.5 |
| 06/21/03 | 3.2 | 2.3 | 1.4 | 1.8 | 1.2 | 0.6 |
| 06/22/03 | 3.5 | 2.5 | 1.6 | 1.9 | 1.3 | 0.7 |
| 06/23/03 | 3.7 | 2.7 | 1.8 | 2.0 | 1.4 | 0.7 |
| 06/24/03 | 4.0 | 3.0 | 1.9 | 2.2 | 1.5 | 0.8 |
| 06/25/03 | 4.2 | 3.1 | 2.1 | 2.3 | 1.6 | 0.9 |
| 06/26/03 | 4.5 | 3.3 | 2.3 | 2.5 | 1.7 | 1.0 |
| 06/27/03 | 4.8 | 3.6 | 2.5 | 2.7 | 1.8 | 1.1 |
| 06/28/03 | 5.0 | 3.9 | 2.7 | 2.8 | 2.0 | 1.1 |
| 06/29/03 | 5.2 | 4.0 | 2.8 | 3.0 | 2.1 | 1.2 |
| 06/30/03 | 5.5 | 4.3 | 3.0 | 3.1 | 2.2 | 1.3 |
| 07/01/03 | 5.8 | 4.5 | 3.2 | 3.3 | 2.3 | 1.4 |
| 07/02/03 | 6.1 | 4.9 | 3.5 | 3.6 | 2.6 | 1.5 |
| 07/03/03 | 6.5 | 5.2 | 3.8 | 3.8 | 2.8 | 1.6 |
| 07/04/03 | 6.9 | 5.6 | 4.1 | 4.1 | 3.0 | 1.8 |
| 07/05/03 | 7.2 | 5.8 | 4.4 | 4.3 | 3.2 | 1.9 |
| 07/06/03 | 7.6 | 6.3 | 4.8 | 4.7 | 3.5 | 2.1 |
| 07/07/03 | 7.9 | 6.5 | 5.0 | 4.9 | 3.7 | 2.2 |
| 07/08/03 | 8.2 | 6.9 | 5.4 | 5.2 | 3.9 | 2.4 |
| 07/09/03 | 8.5 | 7.1 | 5.6 | 5.4 | 4.1 | 2.5 |
| 07/10/03 | 8.8 | 7.5 | 6.0 | 5.7 | 4.4 | 2.7 |
| 07/11/03 | 9.1 | 7.8 | 6.2 | 5.9 | 4.6 | 2.9 |
| 07/12/03 | 9.4 | 8.0 | 6.5 | 6.1 | 4.8 | 3.0 |
| 07/13/03 | 9.7 | 8.4 | 6.9 | 6.5 | 5.1 | 3.2 |
| 07/14/03 | 10.1 | 8.8 | 7.2 | 6.8 | 5.4 | 3.5 |
| 07/15/03 | 10.4 | 9.1 | 7.5 | 7.1 | 5.7 | 3.7 |
| 07/16/03 | 10.8 | 9.4 | 7.9 | 7.4 | 6.0 | 3.9 |

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|--|-------|--------|--------|----------|--------|---------|
| | 5-May | 15-May | 25-May | 15-May | 25-May | 5-June |
| 07/17/03 | 11.2 | 9.7 | 8.3 | 7.8 | 6.3 | 4.2 |
| 07/18/03 | 11.4 | 10.0 | 8.6 | 8.0 | 6.6 | 4.4 |
| 07/19/03 | 11.6 | 10.2 | 8.8 | 8.2 | 6.8 | 4.6 |
| 07/20/03 | 11.9 | 10.5 | 9.0 | 8.5 | 7.0 | 4.8 |
| 07/21/03 | 12.0 | 10.6 | 9.1 | 8.6 | 7.1 | 4.9 |
| 07/22/03 | 12.3 | 10.8 | 9.4 | 8.8 | 7.3 | 5.1 |
| 07/23/03 | 12.5 | 11.1 | 9.7 | 9.1 | 7.6 | 5.3 |
| 07/24/03 | 12.9 | 11.5 | 10.0 | 9.5 | 7.9 | 5.6 |
| 07/25/03 | 13.3 | 11.9 | 10.4 | 9.9 | 8.3 | 6.0 |
| 07/26/03 | 13.7 | 12.2 | 10.8 | 10.2 | 8.6 | 6.3 |
| 07/27/03 | 13.8 | 12.3 | 10.9 | 10.3 | 8.8 | 6.4 |
| 07/28/03 | 14.0 | 12.6 | 11.2 | 10.6 | 9.0 | 6.7 |
| 07/29/03 | 14.3 | 12.9 | 11.4 | 10.9 | 9.3 | 6.9 |
| 07/30/03 | 14.6 | 13.2 | 11.7 | 11.2 | 9.6 | 7.2 |
| 07/31/03 | 14.9 | 13.4 | 12.0 | 11.4 | 9.8 | 7.5 |
| 08/01/03 | 15.1 | 13.7 | 12.2 | 11.7 | 10.1 | 7.7 |
| 08/02/03 | 15.4 | 13.9 | 12.5 | 11.9 | 10.3 | 8.0 |
| 08/03/03 | 15.6 | 14.2 | 12.7 | 12.2 | 10.6 | 8.2 |
| 08/04/03 | 15.8 | 14.3 | 12.9 | 12.3 | 10.8 | 8.4 |
| 08/05/03 | 16.0 | 14.6 | 13.2 | 12.6 | 11.0 | 8.7 |
| 08/06/03 | 16.3 | 14.9 | 13.4 | 12.8 | 11.3 | 8.9 |
| 08/07/03 | 16.5 | 15.1 | 13.7 | 13.1 | 11.5 | 9.2 |
| 08/08/03 | 16.8 | 15.3 | 13.9 | 13.3 | 11.8 | 9.4 |
| 08/09/03 | 17.0 | 15.6 | 14.2 | 13.6 | 12.0 | 9.7 |
| 08/10/03 | 17.3 | 15.9 | 14.4 | 13.8 | 12.3 | 9.9 |
| 08/11/03 | 17.5 | 16.1 | 14.6 | 14.0 | 12.5 | 10.1 |
| 08/12/03 | 17.7 | 16.3 | 14.9 | 14.2 | 12.7 | 10.4 |
| 08/13/03 | 18.0 | 16.6 | 15.1 | 14.4 | 13.0 | 10.6 |
| 08/14/03 | 18.2 | 16.8 | 15.4 | 14.7 | 13.2 | 10.9 |
| 08/15/03 | 18.5 | 17.1 | 15.7 | 14.9 | 13.5 | 11.2 |
| 08/16/03 | 18.8 | 17.4 | 16.0 | 15.2 | 13.8 | 11.5 |
| 08/17/03 | 19.2 | 17.8 | 16.3 | 15.5 | 14.1 | 11.8 |
| 08/18/03 | 19.4 | 18.0 | 16.5 | 15.6 | 14.3 | 12.0 |
| 08/19/03 | 19.6 | 18.2 | 16.8 | 15.8 | 14.5 | 12.3 |
| 08/20/03 | 19.9 | 18.5 | 17.1 | 16.0 | 14.7 | 12.6 |
| 08/21/03 | 20.1 | 18.7 | 17.3 | 16.1 | 14.9 | 12.8 |
| 08/22/03 | 20.3 | 18.9 | 17.6 | 16.2 | 15.1 | 13.0 |
| 08/23/03 | 20.6 | 19.2 | 17.8 | 16.4 | 15.4 | 13.3 |

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| Crop Emergence Date Crop Water Use Dates | CORN | | | SOYBEANS | | SORGHUM |
|--|-------|--------|--------|----------|--------|---------|
| | 5-May | 15-May | 25-May | 15-May | 25-May | 5-June |
| 08/24/03 | 20.8 | 19.5 | 18.2 | 16.5 | 15.6 | 13.6 |
| 08/25/03 | 21.1 | 19.8 | 18.5 | 16.6 | 15.8 | 13.8 |
| 08/26/03 | 21.3 | 20.0 | 18.7 | 16.6 | 15.9 | 14.1 |
| 08/27/03 | 21.5 | 20.3 | 19.0 | 16.7 | 16.0 | 14.3 |
| 08/28/03 | 21.7 | 20.5 | 19.2 | 16.7 | 16.1 | 14.5 |
| 08/29/03 | 21.9 | 20.7 | 19.5 | 16.7 | 16.2 | 14.7 |
| 08/30/03 | 22.0 | 20.8 | 19.6 | 16.8 | 16.2 | 14.8 |
| 08/31/03 | 22.0 | 20.9 | 19.7 | 16.8 | 16.2 | 14.8 |
| 09/01/03 | 22.2 | 21.0 | 19.9 | 16.8 | 16.3 | 15.0 |
| 09/02/03 | 22.3 | 21.2 | 20.1 | 16.8 | 16.3 | 15.1 |
| 09/03/03 | 22.4 | 21.4 | 20.3 | 16.9 | 16.4 | 15.3 |
| 09/04/03 | 22.6 | 21.5 | 20.5 | 16.9 | 16.4 | 15.4 |