### Site Identification

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Black Belt Substation</th>
</tr>
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<tr>
<td>Site ID</td>
<td>AL10</td>
</tr>
<tr>
<td>State</td>
<td>AL</td>
</tr>
<tr>
<td>County</td>
<td>Dallas</td>
</tr>
<tr>
<td>Operating Agency</td>
<td>USGS</td>
</tr>
<tr>
<td>Sponsoring Agency</td>
<td>USGS-WRD</td>
</tr>
<tr>
<td>Latitude</td>
<td>32:27:30</td>
</tr>
<tr>
<td>Longitude</td>
<td>87:14:32</td>
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<tr>
<td>Elevation</td>
<td>58 m</td>
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</table>

### Sample Validity for Annual Period

- **Number of samples**: 53
- **Valid Samples**
  - with precipitation: 42
  - with full chemistry**: 40
  - without chemistry: 2
  - without precipitation: 3
- **Invalid Samples**
  - with precipitation: 8
  - missing precipitation data: 0

### Summary Period Information

<table>
<thead>
<tr>
<th>First summary period day</th>
<th>Annual</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Fall*</th>
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<tbody>
<tr>
<td>Summary period duration</td>
<td>371</td>
<td>91</td>
<td>91</td>
<td>91</td>
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<tr>
<td>Measured precipitation (cm)</td>
<td>130.4</td>
<td>31.5</td>
<td>14.4</td>
<td>40.5</td>
<td>43.8</td>
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<tr>
<td>Valid samples with full chemistry**</td>
<td>40</td>
<td>11</td>
<td>10</td>
<td>13</td>
<td>6</td>
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<tr>
<td>Valid field pH measurements</td>
<td>23</td>
<td>8</td>
<td>9</td>
<td>5</td>
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### NADP/NTN Completeness Criteria

<table>
<thead>
<tr>
<th>1. Summary period with valid samples (%)</th>
<th>Annual</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Fall*</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>85.2</td>
<td>92.3</td>
<td>84.6</td>
<td>100.0</td>
<td>69.2</td>
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<tr>
<td>2. Summary period with precip coverage (%)</td>
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<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
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<tr>
<td>3. Measured precipitation with valid samples (%)</td>
<td>88.7</td>
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<td>4. Collector efficiency (%)</td>
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<td>98.2</td>
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<td>94.9</td>
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<tr>
<td>Precip with full chemistry and valid field pH (%)</td>
<td>37.4</td>
<td>66.5</td>
<td>66.5</td>
<td>27.8</td>
<td>31.0</td>
</tr>
</tbody>
</table>

* = Data do not meet NADP/NTN Completeness Criteria for this period.

** = Valid samples for which all Laboratory Chemical measurements were made (The ONLY samples described by the percentile distributions in the Statistical Summary of Precipitation Chemistry for Valid Samples).

*** = Measured precipitation for sample periods during which precipitation occurred and for which complete valid laboratory chemistry data are available.
### National Atmospheric Deposition Program/National Trends Network
#### 1988 Annual & Seasonal Data Summary for Site AL10

Page 2: Statistical Summary of Precipitation Chemistry for Valid Samples

#### Precipitation-Weighted Mean Concentrations

<table>
<thead>
<tr>
<th></th>
<th>Ca</th>
<th>Mg</th>
<th>K</th>
<th>Na</th>
<th>NH4</th>
<th>NO3</th>
<th>Cl</th>
<th>SO4</th>
<th>H(lab)</th>
<th>H(fld)</th>
<th>pH(lab)</th>
<th>pH(fld)</th>
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</thead>
<tbody>
<tr>
<td>Annual</td>
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<td>0.024</td>
<td>0.014</td>
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<td>0.67</td>
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<tr>
<td>Winter</td>
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<td>0.037</td>
<td>0.015</td>
<td>0.292</td>
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<td>0.57</td>
<td>0.50</td>
<td>1.35</td>
<td>2.40E-02</td>
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<tr>
<td>Spring</td>
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<td>0.052</td>
<td>0.045</td>
<td>0.342</td>
<td>0.22</td>
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<td>0.56</td>
<td>1.96</td>
<td>2.71E-02</td>
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<tr>
<td>Summer</td>
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<td>0.012</td>
<td>0.006</td>
<td>0.096</td>
<td>0.02</td>
<td>0.78</td>
<td>0.12</td>
<td>1.37</td>
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<td>0.05</td>
<td>0.021</td>
<td>0.012</td>
<td>0.153</td>
<td>0.05</td>
<td>0.37</td>
<td>0.27</td>
<td>0.72</td>
<td>1.32E-02</td>
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#### Deposition

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<th>NH4</th>
<th>NO3</th>
<th>Cl</th>
<th>SO4</th>
<th>H(lab)</th>
<th>H(fld)</th>
<th>pH(lab)</th>
<th>pH(fld)</th>
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<tbody>
<tr>
<td>Annual</td>
<td>1.92</td>
<td>0.313</td>
<td>0.182</td>
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<td>0.065</td>
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<tr>
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<td>0.024</td>
<td>0.389</td>
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<tr>
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<td>0.092</td>
<td>0.053</td>
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<td>0.21</td>
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<td>1.16</td>
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<td>5.79E-02</td>
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#### Weekly Sample Concentrations

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<tr>
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<th>Na</th>
<th>NH4</th>
<th>NO3</th>
<th>Cl</th>
<th>SO4</th>
<th>H(lab)</th>
<th>H(fld)</th>
<th>pH(lab)</th>
<th>pH(fld)</th>
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<tbody>
<tr>
<td>Minimum value</td>
<td>0.01</td>
<td>0.004</td>
<td>0.003</td>
<td>0.028</td>
<td>0.02</td>
<td>0.03</td>
<td>0.05</td>
<td>0.24</td>
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<td>9.12E-03</td>
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<td>4.14</td>
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<tr>
<td>Percentile 10</td>
<td>0.04</td>
<td>0.008</td>
<td>0.003</td>
<td>0.060</td>
<td>0.02</td>
<td>0.31</td>
<td>0.09</td>
<td>0.51</td>
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<tr>
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<td>0.004</td>
<td>0.100</td>
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#### Other Parameters

<table>
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<tr>
<th>Measure Precipitation*** cm</th>
<th>Conduc. [uS/cm]</th>
<th>Equivalent Ratios</th>
<th>SO4</th>
<th>SO4+NO3</th>
<th>Cation Anion</th>
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<tr>
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<td>5.8</td>
<td>1.39</td>
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<tr>
<td>Percentile 25</td>
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#### Annual and Seasonal Equivalence Ratios

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<th>SO4+NO3 H</th>
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<td>Annual</td>
<td>2.38</td>
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<tr>
<td>Winter</td>
<td>3.03</td>
<td>1.55</td>
<td>0.91</td>
</tr>
<tr>
<td>Spring</td>
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<td>2.20</td>
<td>0.92</td>
</tr>
<tr>
<td>Summer</td>
<td>2.27</td>
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<td>Fall*</td>
<td>2.50</td>
<td>1.59</td>
<td>0.95</td>
</tr>
</tbody>
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*Please see page 1 for footnotes.*