# National Atmospheric Deposition Program/National Trends Network
## 1979 Annual & Seasonal Data Summary for Site IL63

### Page 1: Summary of Sample Validity and Completeness Criteria

**Site Identification**
- **Site Name**: Dixon Springs Agricultural Center
- **Site ID**: IL63
- **State**: IL
- **County**: Pope
- **Operating Agency**: SAES-Univ. of Illinois-DSAC
- **Sponsoring Agency**: SAES-Univ. of Illinois
- **Latitude**: 37°26'08"
- **Longitude**: 88°40'19"
- **Elevation**: 161 m

### Sample Validity for Annual Period

<table>
<thead>
<tr>
<th>Number of samples</th>
<th>48</th>
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<tbody>
<tr>
<td>Valid Samples</td>
<td>41</td>
</tr>
<tr>
<td>with precipitation</td>
<td>37</td>
</tr>
<tr>
<td>with full chemistry**</td>
<td>36</td>
</tr>
<tr>
<td>without chemistry</td>
<td>1</td>
</tr>
<tr>
<td>without precipitation</td>
<td>4</td>
</tr>
<tr>
<td>Invalid Samples</td>
<td>7</td>
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<tr>
<td>with precipitation</td>
<td>4</td>
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<tr>
<td>missing precipitation data</td>
<td>3</td>
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### Summary Period Information

<table>
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<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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</thead>
<tbody>
<tr>
<td>01/02/1979</td>
<td>01/02/1979</td>
<td>03/01/1979</td>
<td>05/29/1979</td>
<td>09/04/1979</td>
<td>12/05/1979</td>
</tr>
<tr>
<td>Last summary period day</td>
<td>01/02/1980</td>
<td>03/01/1979</td>
<td>05/29/1979</td>
<td>09/04/1979</td>
<td>12/05/1979</td>
</tr>
<tr>
<td>Summary period duration</td>
<td>365</td>
<td>93</td>
<td>89</td>
<td>98</td>
<td>92</td>
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<tr>
<td>Measured precipitation (cm)</td>
<td>118.9</td>
<td>0.7</td>
<td>49.1</td>
<td>29.2</td>
<td>30.6</td>
</tr>
<tr>
<td>Valid samples with full chemistry**</td>
<td>36</td>
<td>13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valid field pH measurements</td>
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</table>

### 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>78.4</td>
<td>7.5</td>
<td>94.4</td>
<td>91.8</td>
<td>93.5</td>
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<tr>
<td>2.Summary period with precip coverage (%)</td>
<td>85.8</td>
<td>15.1</td>
<td>100.0</td>
<td>91.8</td>
<td>100.0</td>
</tr>
<tr>
<td>3.Measured precipitation with valid samples (%)</td>
<td>96.2</td>
<td>0.0</td>
<td>95.6</td>
<td>100.0</td>
<td>97.8</td>
</tr>
<tr>
<td>4.Collector efficiency (%)</td>
<td>92.5</td>
<td>--</td>
<td>91.4</td>
<td>97.0</td>
<td>91.2</td>
</tr>
<tr>
<td>Precip with full chemistry and valid field pH (%)</td>
<td>--</td>
<td>--</td>
<td>--</td>
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</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.
# = Summary period start and end days do not correspond to the first or last sample day.
### 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>
<td>0.27</td>
<td>0.037</td>
<td>0.064</td>
<td>0.197</td>
<td>0.35</td>
<td>1.33</td>
<td>0.28</td>
<td>3.25</td>
<td>4.51E-02</td>
<td>--</td>
<td>4.35</td>
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</tr>
<tr>
<td>Winter*</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Spring</td>
<td>0.19</td>
<td>0.033</td>
<td>0.032</td>
<td>0.272</td>
<td>0.29</td>
<td>1.23</td>
<td>0.35</td>
<td>2.99</td>
<td>4.56E-02</td>
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<td>4.34</td>
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<tr>
<td>Summer</td>
<td>0.37</td>
<td>0.051</td>
<td>0.169</td>
<td>0.119</td>
<td>0.56</td>
<td>1.66</td>
<td>0.25</td>
<td>4.24</td>
<td>5.24E-02</td>
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<td>4.28</td>
<td>--</td>
</tr>
<tr>
<td>Fall</td>
<td>0.18</td>
<td>0.019</td>
<td>0.016</td>
<td>0.094</td>
<td>0.20</td>
<td>0.98</td>
<td>0.11</td>
<td>2.40</td>
<td>3.80E-02</td>
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### Deposition

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<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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<tbody>
<tr>
<td>Annual*</td>
<td>3.26</td>
<td>0.440</td>
<td>0.761</td>
<td>2.342</td>
<td>4.20</td>
<td>15.78</td>
<td>3.27</td>
<td>38.66</td>
<td>5.36E-01</td>
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<tr>
<td>Winter*</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
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<tr>
<td>Spring</td>
<td>0.95</td>
<td>0.162</td>
<td>0.157</td>
<td>1.336</td>
<td>1.44</td>
<td>6.02</td>
<td>1.73</td>
<td>14.68</td>
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<tr>
<td>Summer</td>
<td>1.08</td>
<td>0.149</td>
<td>0.493</td>
<td>0.347</td>
<td>1.63</td>
<td>4.85</td>
<td>0.74</td>
<td>12.36</td>
<td>1.53E-01</td>
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<tr>
<td>Fall</td>
<td>0.55</td>
<td>0.058</td>
<td>0.049</td>
<td>0.288</td>
<td>0.62</td>
<td>2.99</td>
<td>0.34</td>
<td>7.35</td>
<td>1.16E-01</td>
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### Weekly Sample Concentrations

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<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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<tbody>
<tr>
<td>Minimum value</td>
<td>0.05</td>
<td>0.007</td>
<td>0.005</td>
<td>0.011</td>
<td>0.02</td>
<td>0.24</td>
<td>0.05</td>
<td>0.80</td>
<td>3.02E-04</td>
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<td>3.84</td>
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<tr>
<td>Percentile 10</td>
<td>0.09</td>
<td>0.014</td>
<td>0.011</td>
<td>0.033</td>
<td>0.08</td>
<td>0.56</td>
<td>0.05</td>
<td>1.84</td>
<td>1.12E-02</td>
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<td>4.00</td>
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<tr>
<td>Percentile 25</td>
<td>0.21</td>
<td>0.023</td>
<td>0.017</td>
<td>0.079</td>
<td>0.19</td>
<td>0.95</td>
<td>0.13</td>
<td>2.50</td>
<td>2.85E-02</td>
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<td>4.20</td>
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<tr>
<td>Percentile 50</td>
<td>0.31</td>
<td>0.045</td>
<td>0.043</td>
<td>0.155</td>
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<td>0.28</td>
<td>3.65</td>
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<tr>
<td>Percentile 75</td>
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<td>0.076</td>
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<td>8.53</td>
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<td>Maximum value</td>
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<td>0.255</td>
<td>0.703</td>
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<td>2.75</td>
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<td>Arithmetic mean</td>
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<td>0.068</td>
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<td>1</td>
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<td>0</td>
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### Other Parameters

<table>
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<tr>
<th>Measured Precipitation*** cm</th>
<th>Conductivity uS/cm</th>
<th>Equivalence Ratios</th>
<th>Annual and Seasonal Equivalence Ratios</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>SO4</td>
<td>SO4+NO3</td>
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<tr>
<td>Minimum value</td>
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<td>1.97</td>
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Please see page 1 for footnotes.