| Hydrologic group | Threshold |  |  |  | Duration (months) |  |  | Severity (-) |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | SPI accumulation period (months) | Average number of events per station | Mean | Median | Max. | Mean | Median | Max. |
| Pierre Shale Low | -1.0 | SRI-1 | 15.0 | 1.4 | 1.0 | 4.0 | -1.7 | -1.3 | -4.4 |
| Pierre Shale High | -1.0 | SRI-1 | 19.0 | 1.7 | 1.0 | 10.0 | -2.1 | -1.4 | -13.0 |
| Tertiary Clays | -1.0 | SRI-1 | 22.0 | 1.4 | 1.0 | 4.0 | -1.8 | -1.3 | -5.2 |
| Black Hills Plateau | -1.0 | SRI-1 | 18.0 | 2.7 | 2.0 | 10.0 | -3.4 | -2.0 | -13.1 |
| Keya Paha Tablelands | -1.0 | SRI-1 | 27.0 | 1.4 | 1.0 | 3.0 | -1.7 | -1.3 | -3.9 |
| GW Control | -1.0 | SRI-1 | 19.0 | 1.8 | 1.0 | 8.0 | -2.3 | -1.4 | -10.5 |
| Sand Hills | -1.0 | SRI-1 | 26.0 | 1.4 | 1.0 | 6.0 | -1.7 | -1.3 | -7.6 |
| Pierre Shale Low | -1.0 | SRI-6 | 15.0 | 2.0 | 1.0 | 10.0 | -2.5 | -1.4 | -12.5 |
| Pierre Shale High | -1.0 | SRI-6 | 10.0 | 3.8 | 2.0 | 16.0 | -4.7 | -2.7 | -21.0 |
| Tertiary Clays | -1.0 | SRI-6 | 13.0 | 3.7 | 3.0 | 12.0 | -4.6 | -3.7 | -15.4 |
| Black Hills Plateau | -1.0 | SRI-6 | 9.0 | 5.3 | 3.5 | 26.0 | -6.6 | -4.3 | -32.3 |
| Keya Paha Tablelands | -1.0 | SRI-6 | 15.0 | 3.0 | 2.0 | 9.0 | -3.7 | -2.5 | -12.0 |
| GW Control | -1.0 | SRI-6 | 13.0 | 2.8 | 1.5 | 18.0 | -3.6 | -1.9 | -23.6 |
| Sand Hills | -1.0 | SRI-6 | 13.0 | 3.0 | 2.0 | 14.0 | -3.7 | -2.5 | -17.1 |
| Pierre Shale Low | -1.0 | SRI-18 | 13.0 | 3.3 | 2.0 | 15.0 | -4.0 | -2.6 | -17.9 |
| Pierre Shale High | -1.0 | SRI-18 | 6.0 | 7.6 | 6.0 | 29.0 | -9.6 | -7.4 | -38.2 |
| Tertiary Clays | -1.0 | SRI-18 | 6.0 | 6.7 | 6.0 | 14.0 | -7.8 | -7.4 | -15.3 |
| Black Hills Plateau | -1.0 | SRI-18 | 4.0 | 10.5 | 6.5 | 26.0 | -13.5 | -8.0 | -33.6 |
| Keya Paha Tablelands | -1.0 | SRI-18 | 10.0 | 4.0 | 4.0 | 8.0 | -5.0 | -5.1 | -9.9 |
| GW Control | -1.0 | SRI-18 | 7.0 | 6.2 | 4.0 | 27.0 | -8.1 | -5.2 | -36.5 |
| Sand Hills | -1.0 | SRI-18 | 9.0 | 4.5 | 3.5 | 16.0 | -5.4 | -4.0 | -18.4 |
| Pierre Shale Low | -1.5 | SRI-1 | 4.0 | 1.1 | 1.0 | 2.0 | -1.9 | -1.7 | -3.4 |
| Pierre Shale High | -1.5 | SRI-1 | 10.0 | 1.7 | 1.0 | 4.0 | -2.8 | -1.8 | -6.7 |
| Tertiary Clays | -1.5 | SRI-1 | 14.0 | 1.6 | 1.0 | 4.0 | -2.8 | -2.0 | -6.9 |
| Black Hills Plateau | -1.5 | SRI-1 | 11.0 | 1.7 | 1.0 | 5.0 | -2.8 | -1.8 | -9.0 |
| Keya Paha Tablelands | -1.5 | SRI-1 | 12.0 | 1.3 | 1.0 | 3.0 | -2.2 | -1.7 | -5.0 |
| GW Control | -1.5 | SRI-1 | 12.0 | 1.5 | 1.0 | 6.0 | -2.6 | -1.7 | -10.3 |
| Sand Hills | -1.5 | SRI-1 | 13.0 | 1.4 | 1.0 | 4.0 | -2.4 | -1.8 | -7.0 |
| Pierre Shale Low | -1.5 | SRI-6 | 6.0 | 1.9 | 1.0 | 5.0 | -3.2 | -1.8 | -9.2 |
| Pierre Shale High | -1.5 | SRI-6 | 6.0 | 3.1 | 2.0 | 8.0 | -5.2 | -3.2 | -13.3 |
| Tertiary Clays | -1.5 | SRI-6 | 5.0 | 4.2 | 3.5 | 10.0 | -7.1 | -6.1 | -17.2 |
| Black Hills Plateau | -1.5 | SRI-6 | 4.0 | 4.3 | 4.0 | 9.0 | -7.2 | -6.6 | -15.1 |
| Keya Paha Tablelands | -1.5 | SRI-6 | 6.0 | 2.7 | 2.0 | 5.0 | -4.5 | -3.5 | -8.9 |
| GW Control | -1.5 | SRI-6 | 9.0 | 2.2 | 1.0 | 7.0 | -3.7 | -2.0 | -12.1 |
| Sand Hills | -1.5 | SRI-6 | 7.0 | 2.7 | 2.5 | 9.0 | -4.6 | -4.2 | -15.8 |
| Pierre Shale Low | -1.5 | SRI-18 | 4.0 | 3.0 | 1.0 | 20.0 | -5.2 | -1.8 | -33.4 |
| Pierre Shale High | -1.5 | SRI-18 | 4.0 | 4.6 | 2.0 | 15.0 | -7.8 | -3.1 | -25.9 |
| Tertiary Clays | -1.5 | SRI-18 | 2.0 | 8.5 | 5.5 | 24.0 | -15.1 | -9.2 | -43.1 |
| Black Hills Plateau | -1.5 | SRI-18 | 2.0 | 9.0 | 10.0 | 14.0 | -14.9 | -15.8 | -24.0 |
| Keya Paha Tablelands | -1.5 | SRI-18 | 7.0 | 3.3 | 2.0 | 11.0 | -5.5 | -3.3 | -18.6 |
| GW Control | -1.5 | SRI-18 | 5.0 | 3.9 | 3.0 | 9.0 | -6.5 | -5.0 | -16.7 |
| Sand Hills | -1.5 | SRI-18 | 4.0 | 3.4 | 3.0 | 9.0 | -5.9 | -5.2 | -15.0 |
| Pierre Shale Low | -2.0 | SRI-1 | 47.0 | 1.6 | 1.0 | 4.0 | -4.9 | -3.0 | -12.0 |
| Pierre Shale High | -2.0 | SRI-1 | 5.0 | 1.3 | 1.0 | 3.0 | -3.1 | -2.4 | -8.0 |
| Tertiary Clays | -2.0 | SRI-1 | 4.0 | 1.4 | 1.0 | 5.0 | -3.1 | -2.2 | -11.6 |
| Black Hills Plateau | -2.0 | SRI-1 | 2.0 | 1.0 | 1.0 | 1.0 | -2.2 | -2.1 | -2.6 |
| Keya Paha Tablelands | -2.0 | SRI-1 | 7.0 | 1.1 | 1.0 | 2.0 | -2.7 | -2.3 | -5.1 |
| GW Control | -2.0 | SRI-1 | 6.0 | 1.4 | 1.0 | 3.0 | -3.1 | -2.3 | -6.7 |
| Sand Hills | -2.0 | SRI-1 | 6.0 | 1.2 | 1.0 | 2.0 | -2.7 | -2.2 | -5.5 |
| Pierre Shale Low | -2.0 | SRI-6 | 10.0 | 2.5 | 2.0 | 6.0 | -7.2 | -6.0 | -18.0 |
| Pierre Shale High | -2.0 | SRI-6 | 1.0 | 3.5 | 4.0 | 5.0 | -8.0 | -8.9 | -12.0 |
| Tertiary Clays | -2.0 | SRI-6 | 1.0 | 1.0 | 1.0 | 1.0 | -2.1 | -2.1 | -2.1 |
| Black Hills Plateau | -2.0 | SRI-6 | 0.0 | 2.0 | 2.0 | 2.0 | -4.2 | -4.2 | -4.2 |
| Keya Paha Tablelands | -2.0 | SRI-6 | 2.0 | 3.0 | 3.0 | 4.0 | -6.7 | -6.5 | -9.4 |
| GW Control | -2.0 | SRI-6 | 3.0 | 1.7 | 1.0 | 4.0 | -3.7 | -2.3 | -8.2 |
| Sand Hills | -2.0 | SRI-6 | 3.0 | 2.1 | 1.5 | 4.0 | -4.5 | -3.6 | -8.8 |
| Pierre Shale Low | -2.0 | SRI-18 | 4.0 | 3.5 | 1.0 | 12.0 | -9.3 | -3.0 | -30.0 |
| Pierre Shale High | -2.0 | SRI-18 | 1.0 | 2.0 | 2.0 | 2.0 | -4.2 | -4.2 | -4.3 |
| Tertiary Clays | -2.0 | SRI-18 | 1.0 | 4.5 | 4.5 | 5.0 | -9.5 | -9.5 | -10.4 |
| Keya Paha Tablelands | -2.0 | SRI-18 | 1.0 | 2.5 | 2.5 | 3.0 | -5.3 | -5.3 | -6.2 |
| GW Control | -2.0 | SRI-18 | 1.0 | 3.0 | 2.0 | 7.0 | -6.4 | -4.1 | -15.3 |
| Sand Hills | -2.0 | SRI-18 | 2.0 | 2.6 | 2.0 | 5.0 | -5.8 | -4.2 | -13.2 |