Element 7: Environmental Parameters

| Element 7: Prescription (Environmental) | Project Name: Crow Creek Ignition Unit Name: Red Bull | | | |
|---|--|---------------------------------------|--|---|
| | | | | |
| | Weather | Low Fire Behavior (Within Unit) | High Fire Behavior (Within Unit) | Optimal Fire Behavior (Within Unit) |
| Temperature | 50 | 80 | 70 | 80 |
| Relative humidity | 70 | 25 | 30 | 25 |
| Mid-flame wind speed (mi/h) | 3 | 11 | 5 | 15 |
| Mid-flame wind direction (°) | Northerly, NE- NW | Northerly, NE- NW | Northerly, NE- NW | Northerly, NE- NW |
| 20-ft wind speed (mi/h) | 7.5 | 27.5 | 15.5 | 37.5 |
| 20-ft wind direction (°) | Northerly, NE- NW | Northerly, NE- NW | Northerly, NE- NW | Northerly, NE- NW |
| Cloud cover (%) | 100 | 0 | 0 | 0 |
| Fuel shading from sun (%) | 100 | 0 | 0 | 0 |
| Aspect (°) | South (180 | South (180 | South (180 | South (180 |
| | degrees) | degrees) | degrees) | degrees) |
| Slope (%) | 5 | 5 | 5 | 40 |
| Fuel Moisture | | | | |
| 1 hour (%) | 14 | 6 | 8 | 4 |
| 10 hour (%) | 16 | 8 | 10 | 6 |
| 100 hour (%) | 20 | 12 | 14 | 8 |
| 1000 hour sound (%) | n/a | n/a | n/a | n/a |
| Live woody (%) | 180 | 170 | 170 | 160 |
| Live herbaceous (%) | 100 | 90 | 90 | 80 |
| Duff moisture (%) | n/a | n/a | n/a | n/a |
| Soil moisture (%) | n/a | n/a | n/a | n/a |
| KBDI ¹ | 0 | 500 | 300 | 500 |
| 1 Thank of D. D. Tollin | | (2/) | | |

¹ The Keetch-Byram Drought Index (KBDI) is a soil/duff moisture (%) index. It ranges from 0 (no drought) to 800 (extreme drought). A KBDI of 600 indicates that lower litter/duff layers contribute to active fire intensity. A KBDI of 200–400 is typical of late spring, where lower litter/duff layers begin to dry and contribute to fire intensity.