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| Scion_cmyk_logo_standard_positive | **Fire Behaviour Prediction Worksheet** |

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| --- | --- |
| 1.2. | **Date:** **Time:** NZST/NZDT **Fire Name:** **1200 NZST Daily FWI Codes and Indices**\* – from nearest RAWS, NRFA website or agency calculations: |
|  | FFMC |  | DMC |  | DC |  | ISI |  | BUI |  | FWI |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3. | **Prediction Time (NZST/NZDT):** | ***Section/Page*** |  |  |  |  |  |
| 4. | **Weather – from nearest RAWS or onsite handheld observations:** |
|  | Dry Bulb Temp (°C) |  |  |  |  |  |  |
|  | Relative Humidity (%) |  |  |  |  |  |  |
|  | Wind Speed (km/h) | *B-1/B-2* |  |  |  |  |  |
|  | Wind Direction (°) |  |  |  |  |  |  |
| 5. | **Adjusted FWI Components for the time of prediction:** |
|  | Adjusted FFMC | *C-1 or C-2/3* |  |  |  |  |  |
|  | Adjusted ISI: Head/Back | *C-4* |  |  |  |  |  |
|  | Daily BUI | *C-1 or C-2/3* |  |  |  |  |  |
|  | **Fuels:** |
| 6. | Fuel Type | *D-1* |  |  |  |  |  |
| 7. | Modifiers: Height, Cover, DoC% |  |  |  |  |  |  |
| 8. | Available Fuel Load (t/ha) | *Section D* |  |  |  |  |  |
|  | **Fire Behaviour - Flat Ground:** |
| 9. | Equil. ROS (m/h): Head/Back | *Section E* |  |  |  |  |  |
|  | **Slope Correction:** |
| 10. | Slope (°) | *F-1* |  |  |  |  |  |
| 11. | SCF: Head/Back | *F-2* |  |  |  |  |  |
|  | **Fire Behaviour - Adjusted for slope:** |
| 12. | Adjusted ROS (m/h): Head/Back |  |  |  |  |  |  |
| 13. | Intensity (kW/m): Head/Back | *G-1/G-2* |  |  |  |  |  |
| 14. | Flame Length (m): Head/Back | *G-3* |  |  |  |  |  |
| 15. | Fire Type (S/C)# | *H-1* |  |  |  |  |  |
| 16. | **Fire Suppression Considerations:** |
|  | Interval Elapsed Time (min) |  |  |  |  |  |  |
|  | Initial Spread Distance (m) |  |  |  |  |  |  |
|  | Spread Distance (m): Head/Back | *I-2* |  |  |  |  |  |
|  | Total Spread Distance (m) | *see I-2* |  |  |  |  |  |
|  | Fire Area (ha) | *I-3/I-4* |  |  |  |  |  |
|  | Perimeter Length (m) | *I-3/I-4* |  |  |  |  |  |
|  | Length/Breadth Ratio | *I-3/I-4* |  |  |  |  |  |
|  | Perimeter Growth Rate (m/h) | *I-5/I-6* |  |  |  |  |  |
| 17. | **Warnings:** |  |  |  |  |  |  |

**Comments:**

\* If prediction time is before 1200 NZST, use yesterday’s noon daily FWI values; if after 1200 NZST, use today’s FWI values.

# Fire Type = Surface fire (S) or Crown fire (C).