



BUSHFIRE ATTACK ASSESSMENT REPORT

For Site Located At: **Lot 3, Ivor Jones Drive, Wonboyn Lake**

Created By: **Web-based Bushfire Attack Assessor Version 2.0**

1. User's Inputs

Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **0** (level)

Separation Distance (m): **40**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **73** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.89** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.4** (Noble et al., 1980)

Fire Intensity (kW/m): **31000**

Transmissivity: **0.789** (Fuss and Hammins, 2002)

Flame Length (m): **18.6** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.47**

Assessment Date: **21/2/2008**

Assessed By: **Maree Staight**



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1. User's Inputs

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In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **3** (downslope)

Separation Distance (m): **45**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **74** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.31** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.95** (Noble et al., 1980)

Fire Intensity (kW/m): **38129**

Transmissivity: **0.781** (Fuss and Hammins, 2002)

Flame Length (m): **22.19** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.5**

Assessment Date: **21/2/2008**

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In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **0** (level)

Separation Distance (m): **40**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **73** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.89** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.4** (Noble et al., 1980)

Fire Intensity (kW/m): **31000**

Transmissivity: **0.789** (Fuss and Hammins, 2002)

Flame Length (m): **18.6** (RFS PBP, 2001)

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In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **6** (upslope)

Separation Distance (m): **31**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **82** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **3.33** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **1.59** (Noble et al., 1980)

Fire Intensity (kW/m): **20491**

Transmissivity: **0.805** (Fuss and Hammins, 2002)

Flame Length (m): **13.31** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.08**

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1. User's Inputs

Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **0** (level)

Separation Distance (m): **40**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **73** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.89** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.4** (Noble et al., 1980)

Fire Intensity (kW/m): **31000**

Transmissivity: **0.789** (Fuss and Hammins, 2002)

Flame Length (m): **18.6** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.47**

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Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **3** (downslope)

Separation Distance (m): **45**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **74** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.31** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.95** (Noble et al., 1980)

Fire Intensity (kW/m): **38129**

Transmissivity: **0.781** (Fuss and Hammins, 2002)

Flame Length (m): **22.19** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.5**

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1. User's Inputs

Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **0** (level)

Separation Distance (m): **40**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **73** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.89** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.4** (Noble et al., 1980)

Fire Intensity (kW/m): **31000**

Transmissivity: **0.789** (Fuss and Hammins, 2002)

Flame Length (m): **18.6** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.47**

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Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **3** (upslope)

Separation Distance (m): **35**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **77** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **5.81** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **1.95** (Noble et al., 1980)

Fire Intensity (kW/m): **25204**

Transmissivity: **0.798** (Fuss and Hammins, 2002)

Flame Length (m): **15.68** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.34**

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BUSHFIRE ATTACK ASSESSMENT REPORT

For Site Located At: **Lot 5, Ivor Jones Drive, Wonboyn Lake**

Created By: **Web-based Bushfire Attack Assessor Version 2.0**

1. User's Inputs

Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **3** (downslope)

Separation Distance (m): **45**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **74** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.31** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.95** (Noble et al., 1980)

Fire Intensity (kW/m): **38129**

Transmissivity: **0.781** (Fuss and Hammins, 2002)

Flame Length (m): **22.19** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.5**

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1. User's Inputs

Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **6** (downslope)

Separation Distance (m): **51**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **75** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **7.49** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **3.63** (Noble et al., 1980)

Fire Intensity (kW/m): **46899**

Transmissivity: **0.772** (Fuss and Hammins, 2002)

Flame Length (m): **26.6** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.37**

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1. User's Inputs

Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **3** (upslope)

Separation Distance (m): **35**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **77** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **5.81** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **1.95** (Noble et al., 1980)

Fire Intensity (kW/m): **25204**

Transmissivity: **0.798** (Fuss and Hammins, 2002)

Flame Length (m): **15.68** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.34**

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Local Government Area: **Bega Valley**

In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **0** (level)

Separation Distance (m): **40**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **73** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **8.89** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.4** (Noble et al., 1980)

Fire Intensity (kW/m): **31000**

Transmissivity: **0.789** (Fuss and Hammins, 2002)

Flame Length (m): **18.6** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.47**

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In Alpine Areas: **No**

Vegetation: **Forests**

Effective Slope (degree): **3** (downslope)

Separation Distance (m): **45**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **74** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

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Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **2.95** (Noble et al., 1980)

Fire Intensity (kW/m): **38129**

Transmissivity: **0.781** (Fuss and Hammins, 2002)

Flame Length (m): **22.19** (RFS PBP, 2001)

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Vegetation: **Forests**

Effective Slope (degree): **0** (level)

Separation Distance (m): **40**

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Flame Width (m) : **100**

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Flame Temperature (K) : **1090**

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Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

Elevation of Receiver (m): **5.81** (determined by the built-in algorithm)

3. Program Outputs

Category of Attack: **Medium**

Level of Construction Required: **Level 1**

Rate of Fire Spread (km/h): **1.95** (Noble et al., 1980)

Fire Intensity (kW/m): **25204**

Transmissivity: **0.798** (Fuss and Hammins, 2002)

Flame Length (m): **15.68** (RFS PBP, 2001)

Radiant Heat Flux (kW/m²): **12.34**

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Local Government Area: **Bega Valley**

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Vegetation: **Forests**

Effective Slope (degree): **0** (level)

Separation Distance (m): **40**

2. Program's Settings

Flame Width (m) : **100**

Flame Angle (degree): **73** (determined by the built-in algorithm)

Flame Temperature (K) : **1090**

Flame Emissivity: **0.95**

Surface Available Fuel Load (t/ha): **20**

Overall Fuel Load (t/ha): **25**

Fire Danger Index: **100** (Fire Weather Area: Far South Coast)

Relative Humidity (%): **25**

Ambient Temperature (K): **308**

Heat of Combustion (kJ/kg): **18600**

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Category of Attack: **Medium**

Level of Construction Required: **Level 1**

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Fire Intensity (kW/m): **31000**

Transmissivity: **0.789** (Fuss and Hammins, 2002)

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