Appendices

# APPENDIX 1 - Bushfire Recovery Projects

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| **PROJECT NAME** | **SUB-PROJECTS** |
| **Soil Erosion Control and Catchment Rehabilitation on Public Land** | * Rehabilitate fire control lines in parks and State forest. * Rehabilitate creek crossings and control sediment and nutrient inputs. * Rehabilitate Alpine Bogs. |
| **Soil Erosion Control and Catchment Rehabilitation on Farming Land** | * Rehabilitate fire control lines constructed on farm land. * Undertake soil conservation/stabilisation works on farmland via a grants program. * Undertake weed control on private land. |
| **Rehabilitation of Waterway Ecosystems and Rebuilding Damaged CMA Assets** | * Undertake emergency waterway works following the fire (debris relocation, removal of sand blockages). * Undertake on-going assessment of damage to CMA assets and waterways from bushfire and suppression activities and rainfall events. * Rehabilitate waterways and rebuild damaged assets (including revegetation, frontage fencing, and weed control). |
| **Assessment of Water Quality, Water Yield and River Ecosystems** | * Report on fate and effect of key contaminants entering Gippsland Lakes and Dartmouth. * Report on modelling of impacts on mean annual yield across entire burn area. * Prepare preliminary modelling of sediment and nutrient yields to identify impacts on water quality and ecosystems. * Assess and report on potential impacts of fire on flood yield. * Assess/report on river health using macroinvertebrates as indicator. * Report on status of high value aquatic species and identify remedial action. Monitor threatened aquatic species over time and provide management advice. |
| **Water Storage and Treatment Plants for North East towns** | * Review plan for program of capital works to be undertaken by North East Water. |
| **Recreational Fisheries Recovery** | * Assess fish populations and habitats over 3 years, communicate with anglers and evaluate anglers’ satisfaction with program. * Restock with recreational species. |
| **Wild Dog Management** | * Undertake increased trapping and baiting program. * Undertake increased public awareness and education on wild dog management post-bushfire. Acquire and deploy rubber-jawed steel traps. |
| **Repair and Replacement of Park Infrastructure Assets Damaged by Fire** | * Undertake assessments of damaged structures and risk issues. * Progressive reinstatement of park assets according to priority schedule. |

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| **PROJECT NAME** | **SUB-PROJECTS** |
| **Repair and Replacement of Forest Infrastructure Assets Damaged by Fire** | * Complete assessments and works schedule. * Re-open roads and tracks for public access. * Reinstate visitor facilities and other structures. * Repair roads and stream crossings damaged by accelerated runoff as a result of fire (as required). |
| **Replacement of Alpine Resort Infrastructure Assets** | * Complete assessments and works schedule. * Reinstate ski facilities and other structures prior to 2003 ski season opening |
| **Regeneration of Fire-killed Immature Mountain Ash** | * Survey fire-killed sites, prioritise sites for sowing. * Collect 1000 kg Alpine Ash seed. Maximise aerial sowing onto receptive seed bed areas pre-winter 2003. * Prepare sites, collect and sow 3000 kg of seed post-winter 2003. |
| **Natural Values Management** | * Plan, implement and monitor pest plant programs to minimise threats to key conservation values. * Plan, implement and monitor pest animal programs to minimise threats to key conservation values. * Report on fire disturbance analysis. * Develop and implement a grazing management strategy to protect conservation values on public land. * Undertake planning, implement works and monitoring to protect threatened species/communities. |
| **Cultural Values Management** | * Engage site monitors to identify newly revealed Indigenous sites, survey and rehabilitate priority sites. * Inspect, protect and conserve damaged cultural heritage assets. |
| **Fire Severity Mapping to Aid Monitoring and Land Management** | * Acquire before and after satellite imagery and aerial photography of fire areas. * Register, analyse, classify and map fire severity, produce a range of digital, photographic and paper products for land managers. |
| **Ecological Workshops for Licensed Tour Operators** | * Conduct two workshops with tour operators to enhance knowledge of recovery processes and tools to enhance tourist product. |
| **Supporting the Farming Community** | * Construct Wild Dog fences - through grants process. * Remove debris from fence lines. * Facilitate volunteers to support rebuilding efforts. * Establish stock containment areas. |
| **Supporting Agricultural Recovery** | * Implement responsibilities under State Emergency Response Plan. * Provide support for emergency fodder supply. * Provide advice to farmers on restoration of properties to a productive condition. |

# APPENDIX 2 - Victorian Metadata

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The maps are not a substitute for a topographic map, and should not, for example, be used for navigation purposes or determining land management status. Roads, streams, land management status and other base features are presented as supplied by other agencies as a guide only, and may be incorrectly located or classified. In addition, depiction of roads and tracks on the maps does not necessarily indicate a public right of way. Any manipulation of the data may result in misleading or incorrect interpretations.

## FOR ALL THE MAPS (except for the Statewide map).

Roads and streams features presented on the maps are from the AUSLIG Digital products -1:100 000 series. These, with other thematic datasets such as Land Tenure and Tree Cover, have been provided by the Spatial Information Infrastructure (SII) and are plotted from

the DPI/DSE Corporate Geospatial Data Library. Some local project datasets have been used to supplement this information including data from NSW Rural Fire Service-GIS.

The accuracy of the AUSLIG data complies with the National Mapping Specifications and Survey Classification AA1 of the Survey Coordination Regulation 1981.

All information on this map uses the Cartesian coordinate system based on the Geographic Datum Australian (GDA94) and the Universal Transverse Mercator (MGA-Zone55) projection

## FIRE EXTENT

The mapped fire extent is based almost exclusively on an operational fire boundary used for fire suppression by DSE Fire Management Branch as at 24 February 2003. This operational fire boundary is based on a composite of information sources obtained at the time including aerial infrared, multispectral scanner and satellite image interpretation, data relating to control lines, and aerial and ground visual observations.

Detailed fire severity mapping based on aerial photography and field observation may contribute to further refinement of the fire boundary.

## FIRE SEVERITY MAP

**Forest - Crown Burnt**

*50 – 100% of forest crowns are burnt. 0 – 50% of forest crowns are scorched.*

## Forest - Severe Crown Scorch

*60 – 100% of forest crowns are scorched. 0 – 50% of forest crowns are burnt.*

## Forest - Moderate Crown Scorch

*30 – 70% of forest crowns are scorched.*

## Forest - Light Crown Scorch

*0 – 35% of forest crowns are scorched.*

## Treeless - Burnt

*Includes burnt grass and heath vegetation types.*

## Treeless - Unclassified

*Unclassified but may include patches which have been unburnt or lightly burnt.*

## ABOUT THIS MAP

**Victorian Alpine Fires 2003. Fire Severity**

This map depicts fire severity across the extent of the Victorian Alpine Fires 2003. It provides a reliable strategic management dataset to interpret fire effects.

The data is derived from aerial photography and satellite imagery. The classification is derived using a differentiation technique, whereby pre-fire (February 2001) and post-fire (7 April 2003) Landsat images are

analysed for vegetation changes. DSE Spatial Information Infrastructure (SII) carried out this process. Aerial photograph interpretation supplements the cover where Landsat data is unavailable. The fire severity classification was validated on a small sample of field sites.

The classification represents crown burn and crown scorch classes of forested areas. It is also applied to treeless areas. It should be used as a guide only for fire severity as some areas, particularly treeless areas, may be incorrectly classified or be subject to localised anomalies.

## ABOUT THIS MAP

**Victorian Alpine Fires 2003. Land Tenure**

This land tenure map depicts the primary legal status of the land across the extent of the Victorian Alpine Fires 2003.

Land tenure is based on the 1:100,000-scale public land spatial dataset (plmmt100ply). The field used to generate this map was PCURRLS-id. The analysis data was extracted from the Department of Sustainability and Environment's Corporate Geographic Data Library on 1 July 2005. This map does not show the management authority for public land. Included is

part of the NSW fire coverage which has been supplied by the NSW Rural Fire Service-GIS section. Refer to the NSW metadata for more information.

The tenure classes depicted are National Parks and Reserves, State Forest and Freehold Land. The location of the Mount Hotham and Falls Creek Alpine Resorts and the Plantation estate are also depicted on this map.

## ABOUT THIS MAP

**Victorian Alpine Fires 2003. Vegetation**

This map depicts eucalypt forest type across the extent of the Victorian Alpine Fires 2003. It is a simplified grouping that provides a broad overview of vegetation affected by the fires.

Forest type is primarily sourced from the "EUCGROUP" grouping of species from the Department of Sustainability and Environment's (DSE) Statewide Forest Resource Inventory (SFRI) mapping. Where SFRI species mapping is unavailable, supplementary sources of structural vegetation mapping were used.

Treeless areas were derived from DSE treecover and SFRI thematic datasets.

## ABOUT THIS MAP

**Victorian Alpine Fires 2003. Statewide Map**

This Statewide map depicts the primary legal status of the land across the extent of the Victorian Alpine Fires 2003 and shows the boundaries of all wildfires during the 2002/2003 fire season.

Land tenure is based on the 1:100,000-scale public land spatial dataset (plmmt100ply). The field used to generate this map was MMTGEN-id. Roads, streams and town locations are based on the 1:500,000-scale spatial dataset (Road500, Hydro100 and Locn500). The analysis data was extracted from the Department of Sustainability and Environment's Corporate Geographic Data Library on 14 March 2003. This map does not show the management authority for public land. Data for the 2003 fires were from FIRE100\_2003 and NSW fire coverage has been used. Map projection is Lambert\_conformal\_conic VICGRID94.

## For further Information contact:

<http://www.dse.vic.gov.au/fires/>

DSE information: Customer Service 136 186 E-mail: [customer.service@dse.vic.gov.au](mailto:customer.service@dse.vic.gov.au)

# APPENDIX 3 - NSW Metadata

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| **METADATA CATEGORY** | **CORE METADATA ELEMENT** | **DESCRIPTION** |
| **Dataset** | ANZLIC Identifier |  |
| Title | Fire History |
| **Custodian** | Custodian | NSW Rural Fire Service |
| Jurisdiction | New South Wales |
| **Description** | Abstract | Fire History for the following LGAs, Bombala, Cooma- Monaro, Gundagai, Snowy River, Tumbarumba, Tumut, and Yass Valley.  This data is a subset of the fire-history collected from 2002-2004. |
| Search Word | Fire History |
| Geographic Extent Name | New South Wales |
| GEN Category | New South Wales. |
| GEN Custodial Jurisdiction | New South Wales |
| GEN Name | New South Wales |
| Geographic Extent Polygon |  |
| Geographic Bounding Box |  |
| North Bounding Latitude | -34.880 |
| South Bounding Latitude | -37.109 |
| East Bounding Longitude | 150.154 |
| West Bounding Longitude | 147.992 |
| **Data Currency** | Beginning date | 11th January 2002 |
| Ending date | 24th February 2003 |
| **Dataset Status** | Progress | Not Complete |
| Maintenance and Update Frequency | As Required |
| **Access** | Stored Data Format | DIGITAL Shapefile, MapInfo TAB file. |
| Available Format Type | DIGITAL Shapefile, MapInfo TAB file. |
| Access Constraint | The dataset is available to government agencies and other organizations. A licence agreement is required to obtain the dataset. |

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| **METADATA CATEGORY** | **CORE METADATA ELEMENT** | **DESCRIPTION** |
| **Coordinate System** | Projection | Geographic |
| Datum | AGD 66 |
| Units | Decimal Degrees |
| **Data Quality** | Lineage | The final burnt area for each fire has been captured through a range of methods including GPS, linescans and Situation Reports. These burnt areas have been combined into the one table with a separate entry for each fire. These burnt areas can overlap given the nature of fire movement. |
| Positional Accuracy |  |
| Attribute Accuracy | There are 11 fields, not all the attributes are complete |
| Logical Consistency | Not clean – overlapping polygons due to nature of data. Not all attributes are filled in. |
| Completeness | Not complete, as more data is provided this will be added to the data set |
| **Contact Information** | Contact Organisation | NSW Rural Fire Service |
| Contact Position | Manager, GIS Unit |
| Mail Address | Locked Bag 17 |
| Locality | Granville |
| State | NSW |
| Country | Australia |
| Postcode | 2142 |
| Telephone | (02) 8741 5555 |
| Facsimile | (02) 8741 5550 |
| Electronic Mail Address | [stewart.hay@rfs.nsw.gov.au](mailto:stewart.hay@rfs.nsw.gov.au) |
| **Metadata Date** | Metadata Date | 7 December 2004 |
| **Additional Metadata** | Additional Metadata |  |

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