

**Table 16 Fire (Fire fuel loads)**

	<b>DATA OPTION 1: Landsat ETM</b>	<b>DATA OPTION 2: MODIS</b>
<b><i>Spatial Dimensions</i></b>		
<b>Area to cover</b>	185km x 185km per scene	2500km swath width
<b>Mapping unit</b>	15m panchromatic 30m multi-spectral	250 m (bands 1-2) 500 m (bands 3-7) 1000 m (bands 8-36)
<b>Positional accuracy</b>	Dependent on geo-referencing process	Dependent on geo-referencing process
<b><i>Temporal Dimensions</i></b>		
<b>When</b>	Approx 9.45am	Approx 10.30 am (Terra) and 1:30 pm (Aqua)
<b>How often</b>	Every 16 days	Daily
<b>Variable to map</b>	Vegetation biomass (green and brown)	Vegetation biomass (green and brown)
<b>Environmental Restrictions</b>	Cloud cover	Cloud cover
<b>Processing technique (Output)</b>	Image classification with empirical or deterministic modelling	Image classification with empirical or deterministic modelling
<b>Resources – Hardware and Software</b>	PC Image processing software GIS with image classification module (e.g. ARCGIS Image Analyst)	PC Image processing software GIS with image classification module (e.g. ARCGIS Image Analyst)
<b>Resource – Personnel</b>	Trained in image classification Experience with Landsat data Knowledge of area to be mapped	Trained in image classification Experience with MODIS data Knowledge of area to be mapped
<b>References:</b> Note these are some example references	Riano et al. (2002)	

Riaño, D., Chuvieco, E., Salas, J., Palacios-Orueta, A. and Bastarrika, A. (2002). "Generation of fuel type maps from Landsat TM images and ancillary data in Mediterranean ecosystems." Canadian Journal of Forest Research, 32(8), 1301-1315.