Table 1 Composition (Land Cover)

	DATA OPTION 1: MODIS	DATA OPTION 2: Landsat 7 ETM	DATA OPTION 3: Quickbird 2
Spatial Dimensions			
Area to cover	~2000 km wide scene	185 km x 185 km per scene	12 km x 12 km per scene
Mapping unit	250 m (bands 1-2) 500 m (bands 3-7) 1000 m (bands 8-36)	15 m panchromatic 30 m multi-spectral	068m panchromatic 4.0 m multi-spectral
Positional accuracy	Dependent on geo-referencing process	Dependent on geo-referencing process	Dependent on geo-referencing process
Temporal Dimensions			
When	Approx 10:30 am (Terra) and 1:30 pm (Aqua)	Approx 9.45 am	Approx 10.45 am
How often	Daily	every 16 days	Minimum every 4 days
Variable to map	Land-cover or vegetation-cover type	Land-cover or vegetation-cover type	Land-cover or vegetation-cover type
Environmental / Sensor Restrictions	Cloud cover	Cloud cover	Cloud cover
Processing technique **(Output)**	Image classification Note that there are standard MODIS global land cover products updated on an annual basis	Image classification or feature detection using segmentation and classification (Vegetation type map and target features) Note: The ability to map specific targets will depend on their growth form and extent.	Image classification or feature detection (Vegetation type map and target features) Note: The ability to map specific targets will depend on their growth form and extent.
Resources – Hardware and Software	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)	PC Image processing software GIS with image classification module (e.g. ARCGIS Image Analyst)
Resource – Personnel	Trained in image classification Experience with MODIS data Knowledge of area to be mapped	Trained in image classification Experience with Landsat data Knowledge of area to be mapped	Trained in image classification Experience with high spatial resolution data Knowledge of area to be mapped
References:	DERM (2009)	Gill et al. (2010)	Arroyo et al. (2010)

Note these are some example references	Zhan et al. (2002)	Xian et al. (2009)	

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