



GeoMaster

ETS Support within GeoMaster

GeoMaster provides support for the New Zealand Emissions Trading Scheme (ETS) by recording how much of your forest overlaps areas registered as Post 1989 carbon accounting areas (CAAs) and areas classified as Pre 1990 forest land.

The ETS support works within GeoMaster at a patch level. A patch being a single piece of land within GeoMaster with a constant land use and treatment history. A patch is the smallest unit of land recognised by GeoMaster and falls into three land classes: non-productive, planted and plantable bare land. A stand can be made up of several patches.

Land deemed to be Pre 1990 does not change over time (unless deforested and liabilities met). Similarly with Post 1989, once forest is registered in the ETS the CAA boundaries do not generally change. NSA however does change with time due to remapping or in response to operational or natural events. More often than not the NSA is not a perfect match to CAA or Pre 1990 layers due to different mapping rules and a stand or even a patch may contain both Pre 1990 and Post 1989 forest land and.



Difference between NSA (Stands) and CAA Layers

For this reason in GeoMaster ETS areas are not assigned to patches in their entirety. Rather CAA and Pre 1990 layers are recorded separately in a static layer which GeoMaster has access to.

On a periodic basis CAA and Pre 1990 layers can be overlaid with patch and harvest setting layers and intersecting patches and settings are undated in GeoMaster with the areas of overlap of those features.

GeoMaster records ETS information at three levels:

- 1. **SNAP SHOT:** On each ETS update (CAA or Pre 1990) from GIS a snapshot of total NSA within each is be recorded. Snapshots are retained so that changes in NSA over time can be traced and reported.
- 2. **PATCH**: CAA numbers and the area of intersection for both CAAs and Pre 1990 is recorded against patches (picture below).
- 3. **HARVEST SETTINGS:** CAA numbers and the area of intersection for both CAAs and Pre 1990 are recorded against harvest settings. More significantly, the area and years of intended depletion can be reported by CAA to provide a timeline of expected area depletion.

		Patch details
Forest CARO - Compartment 3 - Main Location Documents	Stand: 3 Area: 8.8 Patch No: 11 NSA: 8.8	
District	Latitude 37*17.44' Longitude 175*52.28'	
Altitude 80 m SoilType	NEFD patch Freehold FTS allocations	
Site Index 300 Index	P.rad Site Index CAAs 27 (65%)	

ETS Areas recorded for each Patch

Viewing the ETS data in GeoMaster can be via a number of ways: using the query tool or via the CAA, stand or custom reporting functions.

CARO/(1) Ohinemuri/1	Sta	nd Report		17	/4/2013 Page 1
Forest Carolina Farms Compartment (1) Ohinemuri Stand (1) Takaretu Block	User Codes User1 User2 User3 User4	Plan Units PU1 PU2 PU3 PU4	Crop Age Site Inde 300 Inde Latest S Current	P.RAD ** ** ** ** ** ** ** ** ** *	1992 Rotn 1 21 - m 23.5 226 (10/10) - m
CAAs 9(93%)	Altitude 80 m Latitude 37°14.56' Northing 5874313	Longitude 175°53.33 Easting 1856311	8' Total Are Stocked Harvest	ea Area Date	15.1 Ha 15.1 Ha
Patches Area NSA Active	Seedlot	Soil Type Terrain	Plan Unit C	roptype	GIS key
11 15.1 15.1 [1/90-*]				GIV00001082
Crop Details	Crop Codes		Last Full Inve	ntory	Current
Species Planted Seedlot	1 2 3 4	GF InitSPH D	ate SPH B	А МТН	PrHt DOS
P.RAD 6/1992		1111 10%	2010 226 32	.6 25.7	4.4

Stand Report from GeoMaster which includes CAA Numbers and Area

GeoMaster cloud services provision by Interpine provides a solution to these problems with just a simple monthly fee structure. If you would more information on this please contact us via info@interpine.co.nz