

# Changes and enhancements to the YETI client application in YETI 3.2

## (29 September 2009)

Version 3.2 of the database includes changes to the front-end client to make maintenance of vegetation datasets easier.

### **Survey Permissions (when connected to a SQL Server back-end database)**

Survey Permissions have now been fully integrated into the SQL Server version of the database.

Edit permissions can be allocated only to individual users.

Permission to View a survey can be allocated to individual users or groups of users.

Initially there are only two groups of users referred to as DECCW for staff of the DECCW and External for data supplied by the Wildlife Data Unit to external clients.

If you have permission to view a survey, you can also view its Edit and View permissions by going into the Survey register, selecting the survey, and clicking on the Permissions tab.

Note that by default, all surveys created (or imported from a .tfv file) in the SQL Server database will have View permission granted to both DECCW and External groups, and Edit permission granted to the user that created or imported the survey record.

### **Important Note:**

The granting or revoking of permissions to view and edit datasets can only be performed by members of the maintenance group in the Wildlife Data Unit. If you create or manage data in a survey, it is your responsibility to ensure that the survey permissions are correct, and notify any required changes to permissions to the Wildlife Data Unit.

It has been very time consuming for the Wildlife Data Unit to service requests for YETI data, so they will be using the permissions granted within the database to decide whether or not data can be distributed to third parties.

The following ad hoc procedures, which were followed in the past (at considerable expense in time and effort) will no longer operate:

- contacting custodians of datasets, or DECCW staff noted as contacts for external datasets on a request by request basis
- reviewing the content of the Custodian notes fields to determine access.

### **Analysis Surveys**

The new data model for SQL Server includes the possibility for storing analysis sets as lists of selected sites. However, this functionality is new and will probably need more testing.

On the Survey Details form – can specify that a dataset is an analysis survey dataset. If you do this you will be adding sites to the survey virtually without copying the raw data.

### **Backward Compatibility**

The new client can connect to both old and new back-end files. However, if you connect to an old back-end file, support is limited to using the client to export a .tfv file. No other functions are supported. They may work, but you use them at your own risk. Don't do it!

The import function can accept .tfv files in both the old and new schema. .tfv files in the old schema will be mapped to the new schema. This is the only way to upgrade an old database. (For detailed instructions see the document [Version\\_3\\_2\\_Upgrade\\_Instructions.doc](#))

### **Export Functionality**

For PATN exports Transformations are now available for both MS Access and SQL Versions. This includes the option to export Presence Absence values for any dataset.

The option Exclude Additional Overstorey species allows you to choose whether or not to include these species from the new veg standard into the analysis. The Default is to exclude them as they were not recorded on the actual plot.

The Taxonomy Select tab now includes the ability to show species simply as they were recorded, without applying any taxonomic amelioration.

### **Site Report**

The new client includes the option to export raw field sheet data or a summary report. For these you will need the template files stored in the folder specified on the Graphics page. You can choose whether or not to use the actual values entered into the Cover actual and Abundance actual boxes, or alternatively use Coded scores entered into the Cover Score and Abundance Score fields.

### **Site Data entry**

The major change in this upgrade of the database client has been in the alignment of data entry forms and screens to the new Vegetation Standard.

## Site Record form

The buttons to go to subsidiary forms now directly reference the Vegetation Standard with the three options:  
MODULE 1: MINIMUM REQUIREMENTS  
MODULE 2: FULL FLORISTICS  
MODULE 3: GROUND COVER MONITORING

The option has been added to produce a Field Sheet or a Site Summary Report for the nominated SiteSample replicate. The user can nominate whether they wish to export Raw Values or Coded Scores for the Cover and Abundance data.

The controls of the Mapping and Remote Sensing tabs have been consolidated into a single Tab labelled Mapping

An additional tab Module 3 Transect allows the recording of Transect location data for Ground Cover Monitoring.

## MODULE 1: MINIMUM REQUIREMENTS

The General Tab includes information on the Site Recorders, the Quadrat plot size, and a location for comments. Note that the concept of Floristics and Physical Recorder have been merged, since the same people generally do both at the same time.

The screenshot shows the 'General' tab of the 'MODULE 1: MINIMUM REQUIREMENTS' application. The window title is 'MODULE 1: MINIMUM REQUIREMENTS'. The main area displays 'MVM' and 'MVM001 Replicate 1'. The 'Date' field is set to '13-Feb-09'. Below the tabs, there is a 'Recorders' section with a table listing recorder information. The table has columns for Recorder, FamilyName, GivenNames, and Address. The first row shows 'BELD(Bell)' with 'Dorothy' as the given name. The second row shows 'MUI(Glenn)' with 'Muir' as the given name. Below the table, there are navigation controls for records (1 of 2), a 'Plot size(s)' field set to '1:20x50m', a 'Set plot size...' button, and radio buttons for '20 x 20m', '20 x 50m', 'unspecified', and 'Other'. There is also a checkbox for 'Full Floristics' which is checked, and a 'Comments:' text area. At the bottom, there is a 'Revert to original data (lose current edits)' button.

Recorder	FamilyName	GivenNames	Address
BELD	Bell	Dorothy	
MUI	Glenn	Muir	
*			

The Structure Composition tab includes data on the community classification of the site.

The screenshot shows the 'Structure Composition' tab of the 'MODULE 1: MINIMUM REQUIREMENTS' application. The window title is 'MODULE 1: MINIMUM REQUIREMENTS'. The main area displays 'MVM' and 'MVM001 Replicate 1'. The 'Date' field is set to '13-Feb-09'. Below the tabs, there is a table for community classification. The table has columns for Class, Confidence, and Address. The first row shows 'Inland Riverine Forests' with 'mod' confidence. The second row shows 'Riverine grassy woodland complexes' with 'mod' confidence. The third row shows 'Benson 5: River red gum- silver wattle grassy vety' with 'mod' confidence. Below the table, there are navigation controls for records (1 of 3) and a 'Revert to original data (lose current edits)' button.

Class	Confidence	Address
Inland Riverine Forests	mod	
Riverine grassy woodland complexes	mod	
Benson 5: River red gum- silver wattle grassy vety	mod	
*		

The NVIS Level V allows the recording of NVIS Level V structural data, and also displays data previously entered in the Structure Tab of the Floristics form.

MODULE 1: MINIMUM REQUIREMENTS

MVM MVM001 Replicate 1 Date 13-Feb-09

General Structure Composition NVIS Level V Condition Land Use Site History Plot Disturbance Focal Taxa Physiography Other

Stratum	Height to crown (m)			Percent cover
	min	mode	max	
Ground	0.15	0.7	1	40
Upper	6	14	31	70

Vegetation Structure Stratum Dominants

Show All Fields

Stratum	Species code	Genus	Species	Rank	Infraspecies	Final code	Current Species Name	Cover Score	Abund Score	Field No
G	5133	Poa	labillarderei			11196	Poa labillarderei var. labillarderei	40	>1000	

Record: 1 of 1

Record: 1 of 2

Revert to original data (lose current edits)

The Condition Tab records condition information following the new Vegetation Standard.

MODULE 1: MINIMUM REQUIREMENTS

MVM MVM001 Replicate 1 Date 13-Feb-09

General Structure Composition NVIS Level V Condition Land Use Site History Plot Disturbance Focal Taxa Physiography Other

Condition (within 0.04 ha)	Upper stratum	Mid stratum	Ground stratum Grasses	Ground stratum Shrubs	Ground stratum Other	Cover % Non-Veg	Condition (within 0.1ha quadrat)
Native richness	1	0	3	0	3	Litter 70	No. trees with hollows 1
Native cover	70	0	41	0		Bare ground 5	Woody debris lineal metres > 10 cm diameter 176
Exotic cover	0	0		0	1	Crypto gams 0	Woody regeneration No. upper stratum sp. & abund. 1 3

(within 0.1ha quadrat)

Woody stem-sizes (tally within category) (or, measure all ≥5cm DBH) list separated by spaces:	≥5- <10	≥10- <20	≥20- <30	≥30 cm DBH measure all
	4	5	3	7
	33	135	34	72 52 64 40

Tree health

no evidence  branchlets dead  small branches dead  main branches dead  trees dead

Revert to original data (lose current edits)

The Land Use tab records information on land use following the new Vegetation Standard.

MODULE 1: MINIMUM REQUIREMENTS

MVM MVM001 Replicate 1 Date: 13-Feb-09

General Structure Composition NVIS Level V Condition Land Use Site History Plot Disturbance Focal Taxa Physiography Other

Land Use (dominant)	forestry
Land Cover (upper stratum)	native
Land Cover (ground stratum)	native
Age structure	uneven age

Revert to original data (lose current edits)

The Site History tab records information on the history of the site following the new Vegetation Standard.

MODULE 1: MINIMUM REQUIREMENTS

MVM MVM001 Replicate 1 Date: 13-Feb-09

General Structure Composition NVIS Level V Condition Land Use Site History Plot Disturbance Focal Taxa Physiography Other

Site History	Freq. Code	Age Code	Land Manager Survey: categories, quantities, comments
▶ Grazing Management			
Pasture improvement rates (fertiliser) kg/ha			
Pasture improvement rates (lime/dolomite) t/ha			
* Grazing Management			

Record: 1 of 3

Revert to original data (lose current edits)

The Plot Disturbance tab records information on disturbance following the new Vegetation Standard and includes data previously recorded on the Disturbance data entry form.

Plot Disturbance	Severity Code	Age Code	Observational evidence
Clearing (inc. logging)	1	0	stump
*			

The Focal Taxa tab allows the recording of individual taxa of interest following the new Vegetation Standard.

Sub-stratum	Growth form	Species code	Genus	Species	Rank	Intraspecies	Final code	Current Species Name	Cover Score	Abund Score	Field No	RBG No
									1			

The Physiography tab allows the recording of Physiography information following the new Vegetation Standard and incorporates information previously entered in the Physical Data entry form.

**Physiography**

Morphological Type	FLAT	Landform Element	PLAIN	Landform Pattern	MEANDER PLAIN	Microrelief	NO MICRORELIEF
Lithology	Soil Surface Texture	Soil Colour	Brown	Soil Depth	Deep		
Slope	0	Aspect		Drainage	SLOW	Distance to nearest water (m)	100

The last tab, labelled Other, provides access to legacy data for fields that are no longer included in the Vegetation Standard.

**Other**

Altitude (field measurement - m)  Altitude (mapped - m)

Horizon azimuths (degrees)

N  NE  E  SE  S  SW  W  NW  Horizon visibility

Geological map code  User-defined geological code  Geology observed at the site

Geomorphological action  Amount of outcropping  Amount of surface rock

Runoff from the site  Watercourse name

Flood frequency  Typical flood duration  Typical flood depth

## MODULE 2: FULL FLORISTICS

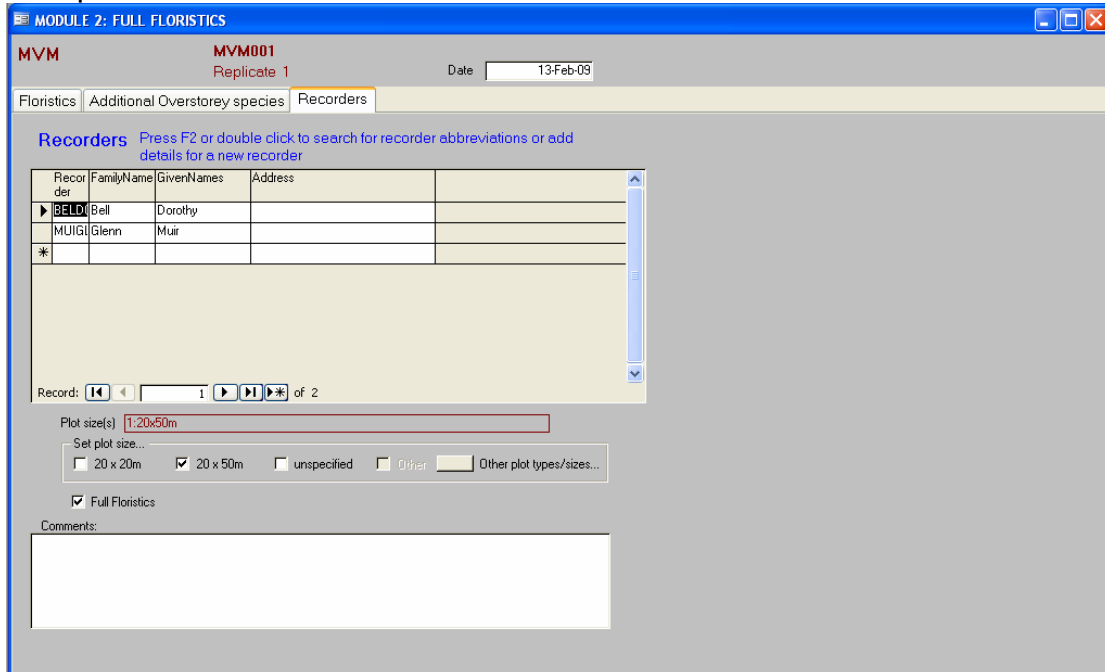
The Floristics Tab allows the recording of floristics information and includes data previously entered in the Species tab of the Floristics data entry form.

Sub-plot	Sub-stratum	Growth form	Species code	Genus	Species	Rank	Intraspecies	Final code	Current Species Name	Cover Score	Abund Score	Field No	R/BG No	Focal Taxa
1	T	T	6360	Eucalyptus	camaldulensis			6360	Eucalyptus camaldulensis	70	10			
1	L	G	5133	Poa	labillardierei			11196	Poa labillardierei var. labillardierei	40	1000			
1	L	G	1400	Cirsium	vulgare			1400	Cirsium vulgare	1	50			
1	L	G	4621	Oxalis	perennans			4621	Oxalis perennans	1	3			
1	L	R	3313	Juncus	amabilis			3313	Juncus amabilis	1	5			
1	L	F	1751	Echium	plantagineum			1751	Echium plantagineum	1	2			
1	L	D	6540	Cynodon	dactylon			6540	Cynodon dactylon	1	10			
1	L	G	5082	Paspalidium	jubiliflorum			5082	Paspalidium jubiliflorum	1	10			
1	L	F	6478	Alternanthera	denticulata			6478	Alternanthera denticulata	1	1			
1	L	G	4937	Ehrharta	erecta			4937	Ehrharta erecta	1	6			
1	L	G	5086	Paspalum	dilatatum			5086	Paspalum dilatatum	1	10			
1	M	S	3758	Acacia	dealbata			3758	Acacia dealbata	2	2			
1	L	F	6091	Solanum	nigrum			6091	Solanum nigrum	1	1			
*	1	-	-	-	-					1				

The Additional Overstorey species tab allows the recording of additional species of interest found beyond the plot, following the new Vegetation Standard. These are recorded with Sub-stratum AdU and the application provides the option to exclude them from PATN analyses.

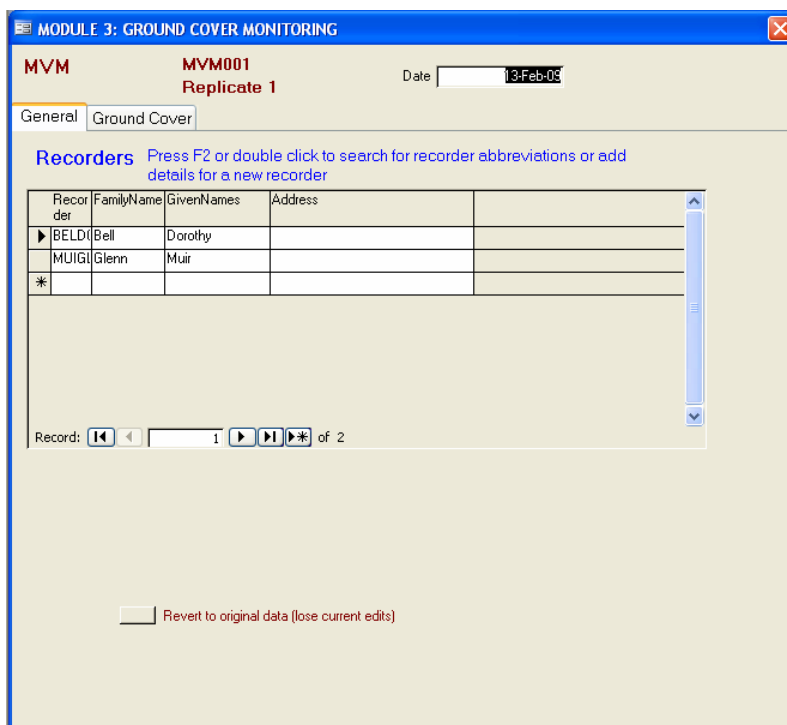
Sub-plot	Sub-stratum	Growth form	Species code	Genus	Species	Rank	Intraspecies	Final code	Current Species Name	Cover Score	Abund Score	Field No	R/BG No	Focal Taxa
1	AdU	-								1				

The Recorders tab allows the recording of information on who recorded a site and the floristics quadrat information. This tab duplicates the General tab on MODULE 1: MINIMUM REQUIREMENTS with the same data showing up in both places.



### MODULE 3: GROUND COVER MONITORING

The General tab allows the viewing of Recorders of the survey information. This tab duplicates the General tab on MODULE 1: MINIMUM REQUIREMENTS and the Recorders tab on MODULE 2: FULL FLORISTICS with the same data on recorders showing up in all three places.



The Ground Cover tab allows the recording of information from a 100 point Ground Cover transect following the new Vegetation Standard.

MODULE 3: GROUND COVER MONITORING

MVM MVM001  
Replicate 1 Date 13-Feb-09

General Ground Cover

**Ground Cover**

Tally first point of contact (<1m), every 50cm along 50m transect (0.5m to 50m = 100 points)

	TOTAL
Litter	54
Bare Ground	5
Cryptogam	0
Woody debris	
Rock	0
Exotic - Annual	2
Exotic - Perennial	0
Shrub (crown height <1m)	0
Grass - Hummock	0
Grass - Other	31
Forb	0
Sedge / Rush	1
Fern	0
Other	0
<b>TOTAL</b>	<b>93</b>

**Other**

Tally presence within 25cm radius, every 50cm along 50m transect (0.5m to 50m = 100 points)

	TOTAL
Dung - stock	0
Dung - exotic pests	44
Dung - native	9
Woody seedlings	0

Revert to original data (lose current edits)

### Where to get help, complain, sing its praises etc.

You can contact the Wildlife Data Unit on [vis@environment.nsw.gov.au](mailto:vis@environment.nsw.gov.au)