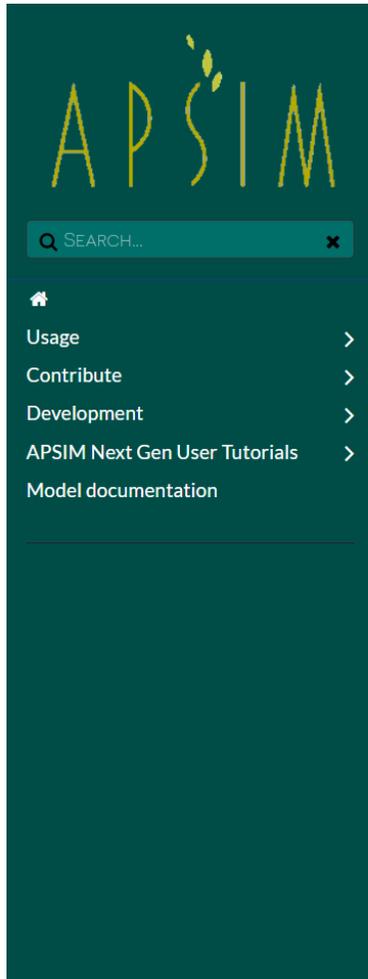


This is the collection of screenshots associated with the exercises described in the file *APSIMForPlantationForestryInstructionsExercises*. The screenshots are number by exercise part. However, screenshots are not available for every step of every exercise.

You might not exactly create the values and colours in graphs as shown, but the main aim is to build, run and graph simulations successfully, i.e. the simulations should run as planned and without error messages.

Contact Philip if something is unclear (+61 409 242 677, Philip.Smethurst@csiro.au) and if you have suggestions for improving these training instructions.

1c.



The next generation of APSIM > Model documentation

Model documentation

Model Documentation for version 2024.3.7416.0

Name	Documentation files
AGPRyegrass (AgPasture)	Description & validation , Interface , Science Documentation , Species table
AGPWhiteClover (AgPasture)	Description & validation , Interface , Science Documentation
Barley	Description & validation , Interface
Canola	Description & validation , Interface , Video
Chicory	Description & validation , Interface
Chickpea	Description & validation , Interface
Eucalyptus	Description & validation , Interface
FodderBeet	Description & validation , Interface
Gliricidia	Description & validation , Interface
Maize	Description & validation , Interface
MicroClimate	Description & validation , Interface , Science Documentation
Mungbean	Description & validation , Interface , Video
Nutrient	Description & validation , Interface
Oats	Description & validation , Interface
OilPalm	Description & validation , Interface
Peanut	Description & validation , Interface
Pinus	Description & validation , Interface
PlantainForage	Description & validation , Interface

1d.

apsim.info/support/videos/

Soils and soil parameters in APSIM Next Generation

APSIM Next Generation: irrigating and fertilizing the crop

Crop growth in APSIM: understanding water and nitrogen stresses

Pasture growth and livestock grazing in APSIM

Crops and livestock in APSIM (Crop Livestock Enterprise Model)

Trees and crops in APSIM Next Generation (Agroforestry)

Understanding APSIM Next Generation weather (meteorology) data

APSIM Next Generation: model structure and genotype parameters

Nitrogen fertilizer, soil N, N loss and cycling in APSIM Next Generation

Climate change in APSIM Next Generation (climate controller)

APSIM Next Generation, with examples from Eucalyptus plantation forestry

Video 1/4 Brief tour of website, GUI, GitHub and Eucalyptus Rotation example

Video 2/4 Running the Eucalyptus Rotation example, and Eucalyptus model structure

Video 3/4 - Genotypes and other components of the Eucalyptus model

Video 4/4 - Soil, Weather, Experiments, Calibration

3c.

APSIM Initiative Product Registration

Product:	APSIM Next Generation	▼
Version:	2024.03.7419.0	▼
Platform:	Windows	▼
First Name:	Philip	
Last Name:	Smethurst	
Organisation:	Private	
Country:	Australia	▼
Email:	pjsmethurst@gmail.com	
Licence Type:	General Use	▼

The Organisation field is required.

The APSIM Initiative will forward updates on APSIM-related developments and improvements as well as the upcoming APSIM-related events including training workshops.

I agree to the T&Cs below. Proceed to Downloads

SCHEDULE 4 - GENERAL USE LICENCE

GENERAL USE LICENCE AGREEMENT FOR AGRICULTURAL PRODUCTION SYSTEMS SIMULATOR (APSIM)

The Licensee must carefully read all the terms and conditions of this Agreement before downloading the APSIM Software. The terms and conditions of this Agreement are legally binding. Download of the APSIM Software indicates the Licensee's acceptance of these terms and conditions. The licence granted under this Agreement is only given on the Licensee's acceptance of these terms and conditions and will be subject to the Licensee's continual compliance with them. If the Licensee does not agree to these terms and conditions they must not download, install or use the APSIM Software.

This Agreement is effective and commences on and from the date of download of the APSIM Software.

APSIM Downloads

Product: APSIM Next Generation

Release Date	Release Number	Release Information	Download Link
2024-03-06	2024.03.7419.0	Input string format error from graph presenter	Windows , MacOS , Linux
2024-03-06	2024.03.7418.0	Wrong Cursor on XY Pairs	Windows , MacOS , Linux
2024-03-06	2024.03.7417.0	Water Presenter 'Filled from top?' checkbox not working correctly	Windows , MacOS , Linux
2024-03-06	2024.03.7416.0	Object reference not set to an instance of an object.	Windows , MacOS , Linux
2024-03-04	2024.03.7415.0	Index was outside the bounds of the array	Windows , MacOS , Linux
2024-03-04	2024.03.7414.0	(Re)create apsfarm capability	Windows , MacOS , Linux
2024-03-03	2024.03.7413.0	:bug: edit-use-config and run-use-config options not following config file	Windows , MacOS , Linux
2024-03-01	2024.03.7412.0	Zadok Stage on day of sowing is 4.9	Windows , MacOS , Linux
2024-03-01	2024.03.7411.0	Templates lost tags	Windows , MacOS , Linux
2024-02-29	2024.02.7410.0	Lincoln9192 SpecificArea values in observed wheat validation in wrong units	Windows , MacOS , Linux

Max number of rows:

You currently have a General Use license for APSIM. If you are using APSIM commercially, you will need to [register again](#).

3j.

 APSIM 2024.3.7419.0

Home

-  Open APSIM File
-  Open an example
-  Management toolbox
-  Training toolbox
-  Import old .apsim file
-  Upgrade
-  View Cloud Jobs
-  Settings
-  Help

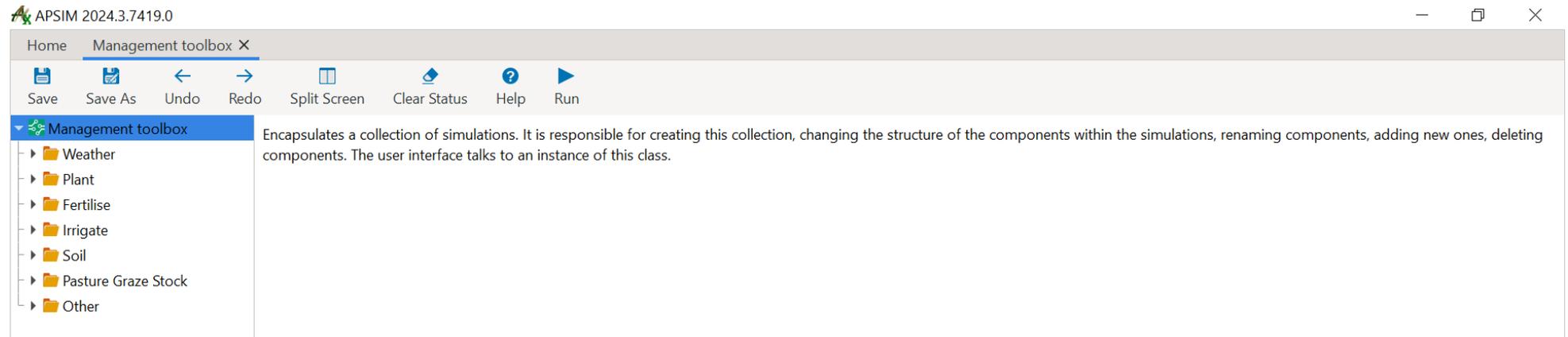
4a.

APSIM 2024.3.7419.0

The screenshot shows the APSIM 2024.3.7419.0 application window. The top menu bar includes options like 'Open APSIM File', 'Open an example', 'Management toolbox', 'Training toolbox', 'Import old .apsim file', 'Upgrade', 'View Cloud Jobs', 'Settings', and 'Help'. A file explorer window is open, displaying the path: Smethurst, Philip (Environment, Sandy Bay) > AppData > Local > Programs > APSIM2024.3.7419.0 > Examples. The file explorer shows a list of folders and files. The file 'EucalyptusRotation.apsimx' is selected and highlighted in blue. Below the file list, a detailed view of the selected file is shown: 'EucalyptusRotation.apsimx', Date modified: 6/03/2024 11:14 PM, Date created: 8/03/2024 2:08 PM, Size: 31.5 KB. The file name field at the bottom contains 'EucalyptusRotation.apsimx' and the file type is set to 'ApsimX files (*.apsimx)'. 'Open' and 'Cancel' buttons are visible at the bottom right of the file explorer window.

Name	Date modified	Type	Size
Agroforestry	8/03/2024 2:08 PM	File folder	
CLEM	8/03/2024 2:08 PM	File folder	
ManagerExamples	8/03/2024 2:08 PM	File folder	
Optimisation	8/03/2024 2:08 PM	File folder	
Sensitivity	8/03/2024 2:08 PM	File folder	
Tutorials	8/03/2024 2:08 PM	File folder	
WeatherFiles	8/03/2024 2:08 PM	File folder	
AgPasture.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	163 KB
Barley.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	29 KB
BiomassRemovalFromPlant.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	183 KB
Canola.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	33 KB
CanolaGrazing.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	51 KB
Chickpea.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	42 KB
Chicory.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	80 KB
ControlledEnvironment.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	27 KB
CsvWeather.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	29 KB
Eucalyptus.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	48 KB
EucalyptusRotation.apsimx	6/03/2024 11:14 PM	APSIM Next Generati...	32 KB

4a (continued)



APSIM 2024.3.7419.0

Home Management toolbox X

Save Save As Undo Redo Split Screen Clear Status Help Run

Management toolbox

- Weather
- Plant
- Fertilise
- Irrigate
- Soil
- Pasture Graze Stock
- Other

Encapsulates a collection of simulations. It is responsible for creating this collection, changing the structure of the components within the simulations, renaming components, adding new ones, deleting components. The user interface talks to an instance of this class.



APSIM 2024.3.7419.0

Home Training toolbox X

Save Save As Undo Redo Split Screen Clear Status Help Run

Training

- Soils
- Completed Simulations

Encapsulates a collection of simulations. It is responsible for creating this collection, changing the structure of the components within the simulations, renaming components, adding new ones, deleting components. The user interface talks to an instance of this class.

4a (continued)

APSIM 2024.3.7419.0

Home

Open APSIM File Open an example Management toolbox Training toolbox Import old .apsim file Upgrade View Cloud Jobs Settings Help

APSIM Upgrade Form

You are currently using version 2024.3.7419.0. You are using the latest version.

Version	Description
2024.03.7419	Input string format error from graph presenter
2024.03.7418	Wrong Cursor on XY Pairs
2024.03.7417	Water Presenter 'Filled from top?' checkbox not working correct
2024.03.7416	Object reference not set to an instance of an object.
2024.03.7415	Index was outside the bounds of the array.

Display Old Versions

First name *: Philip

Last name *: Smethurst

Email *: Philip.Smethurst@csiro.au

Organisation: CSIRO

Country *: Australia

Do you agree to the terms of the APSIM license below?

Upgrade View detail

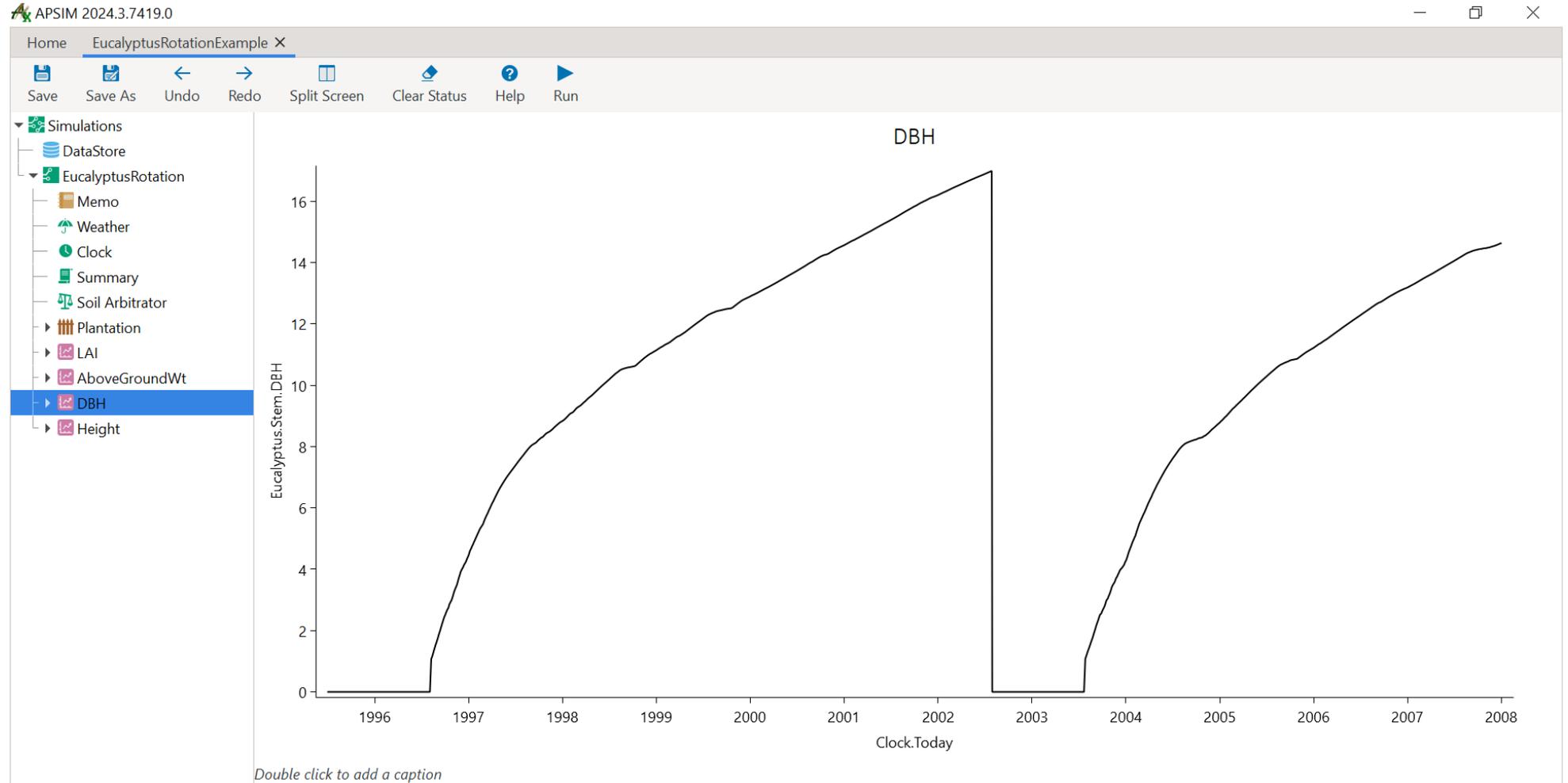
Background file list:

- EKBNO 240304a.apsim
- Slash 240228a.apsimx
- CastraDensity 240228a.apsimx
- CastraDensity 240226a.apsimx
- Slash 240221a.apsimx
- Slash 240220a.apsimx
- EKBN400 230831a.apsimx
- Slash 240229a.apsimx
- Eucalyptus.apsimx
- Euclid1gen 240123a.apsimx
- Slash 240221b.apsimx
- Slash 240220b.apsimx
- AfP template 240219a.apsimx

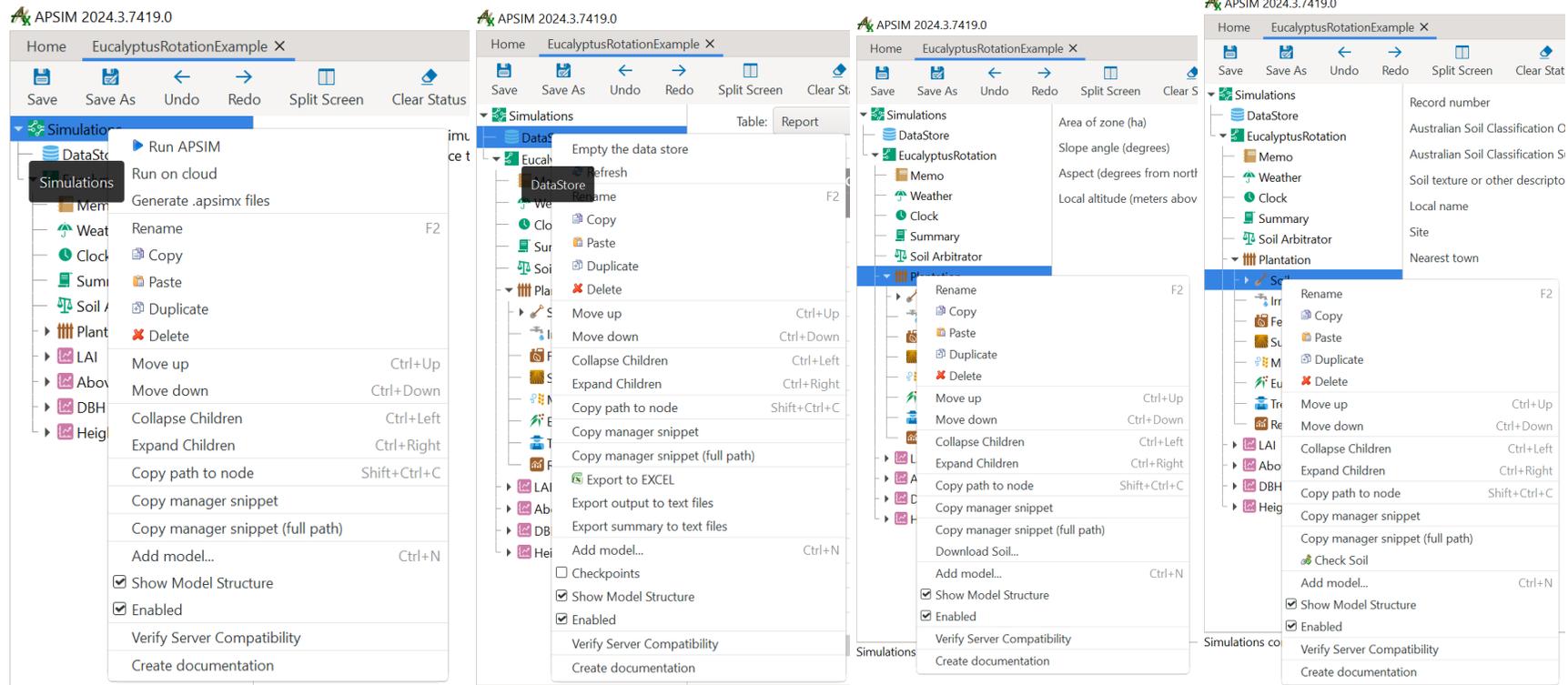
5a-e.

Name	Status	Date modified	Type	Size
EucalyptusRotationModified.apsimx	✓	23/09/2021 4:28 PM	APSIMX File	221 KB
EucalyptusRotationModified.apsimx.bak	✓	23/09/2021 4:27 PM	BAK File	221 KB
EucalyptusRotationModified.db	✓	23/09/2021 4:11 PM	Data Base File	5,232 KB
EucalyptusRotationModified.db-shm	✓	23/09/2021 3:03 PM	DB-SHM File	32 KB
EucalyptusRotationModified.db-wal	✓	23/09/2021 4:11 PM	DB-WAL File	4,374 KB
EucalyptusRotationModified-VINE-TS.db	✓	20/09/2021 8:59 PM	Data Base File	2,104 KB
ObservedDataForPlantationForestryTraining.xlsx	✓	23/09/2021 3:32 PM	Microsoft Excel Worksheet	10 KB
Warragul.met	✓	20/09/2021 5:42 PM	MET File	700 KB

6a-e.



7a-b.



8c.

Home EucalyptusRotationExercises210924a

Save Save As Undo Redo Split screen Clear Status Help

Simulations
DataStore
EucalyptusRotation
Memo
Weather
Clock
Summary
Soil Arbitrator
Plantation
Soil
Initial water
Physical
EucalyptusSoil
SCRUMSoil
SoilWater
Organic
Chemical
Temperature
Nutrient
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
LAI
AboveGroundWt
DBH
Height

Properties Data

Reporting variables:
1 [Clock].Today
2 [TreeManagement].Script.TimeSincePlanting
3 [Eucalyptus].Age
4 [Eucalyptus].AboveGround.Wt
5 [Eucalyptus].BelowGround.Wt
6 [Eucalyptus].Total.Wt
7 [Eucalyptus].Stem.Wt
8 [Eucalyptus].FineRoot.Wt
9 [Eucalyptus].CoarseRoot.Wt
10 [Eucalyptus].Total.N
11 [Eucalyptus].Branch.Wt
12 [Eucalyptus].Leaf.Transpiration
13 [Eucalyptus].Leaf.CoverGreen
14 [Eucalyptus].Leaf.LAI
15 [Eucalyptus].Stem.DBH
16 [Eucalyptus].Stem.Ht
17 [Eucalyptus].RootShootRatio
18 [Pinus].Stem.Ht

Error Information

ERROR in file: C:\Users\sme016\OneDrive - CSIRO\APSIM Training\Sims\EucalyptusRotationExercises210924a.apsimx
Simulation name: EucalyptusRotation
Models.Core.SimulationException
---> System.Exception: Error in report Report: Invalid report variables found:
Pinus.Stem.Ht: Unable to find any model with name or type Pinus in scope of Report
at Models.Report.DoOutput()
at Models.Clock.OnDoCommence(Object sender, CommenceArgs e)
at Models.Core.Simulation.Run(CancellationTokenSource cancelToken)
--- End of inner exception stack trace ---
at Models.Core.Simulation.Run(CancellationTokenSource cancelToken)
at Models.Core.Run.SimulationDescription.Run(CancellationTokenSource cancelToken)
at APSIM.Shared.JobRunning.JobRunner.RunActualJob(IRunnable job, IJobManager jobManager)

Copy Close

Report in
1 [Cl
Group by

Error in report Report: Invalid report variables found:
Pinus.Stem.Ht: Unable to find any model with name or type Pinus in scope of Report

More Information

Desktop 11:08 AM 24/09/2021

8e.

The screenshot displays the APSIM 2021.9.17.6802 software interface. The window title is "EucalyptusRotationExercises210924a". The top menu bar includes "Save", "Save As", "Undo", "Redo", "Split screen", "Clear Status", and "Help". Below the menu bar, there are checkboxes for "Capture summary?", "Capture warning messages?", and "Capture error messages?". The "Simulation:" dropdown menu is set to "EucalyptusRotation". A "Jump to simulation log" button is visible.

The left sidebar shows a tree view of simulation components, with "Summary" selected. The main content area displays the "Simulation log:" for various plantations:

- 1995-08-01 Plantation.Eucalyptus**
A crop of Eucalyptus (cultivar = grandisCoffsHarbour) was sown today at a population of 0.1111111111111111 plants/m2 with 1 buds per plant at a row spacing of 3000 and a depth of 100 mm
- 1995-08-01 Plantation.Fertiliser**
100 kg/ha of N03N added at depth 0 layer 1
- 1995-09-30 Plantation.Eucalyptus**
Germination
LAI = 0.00 (m²/m²)
Above Ground Biomass = 0.00 (g/m²)
- 1995-10-01 Plantation.Eucalyptus**
Emergence
LAI = 0.00 (m²/m²)
Above Ground Biomass = 0.00 (g/m²)
- 1996-09-30 Plantation.Eucalyptus**
EndJuvenile
LAI = 1.15 (m²/m²)
Above Ground Biomass = 442.94 (g/m²)
- 2001-09-29 Plantation.Eucalyptus**
Maturity
LAI = 4.44 (m²/m²)
Above Ground Biomass = 10762.96 (g/m²)

Simulations complete [4.06 sec]



9. a-h

APSIM 2024.3.7419.0

Home EucalyptusRotationExample X

Save Save As Undo Redo Split Screen Clear Status Help Run

Simulations

Choose a weather file to open

Smethurst, Philip (Environment, Sandy Bay) > OneDrive - CSIRO > 1. Rafael Visit 2023 > APSIM Training Workshop > Sims

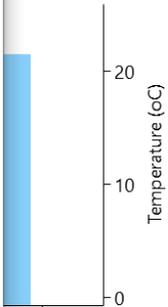
Search Sims

Name	Status	Date modified	Type	Size
lincoln.met	✓	8/03/2024 4:16 PM	MET File	1,207 KB
WarragulCO2.met	✓	8/03/2024 4:16 PM	MET File	692 KB

lincoln.met Date modified: 8/03/2024 4:16 PM Date created: 29/10/2021 11:36 AM
MET File Size: 1.17 MB Availability status: Available on this device

File name: lincoln.met APSIM Weather file (*.met)

Open Cancel



Home EucalyptusRotationExample X

Save Save As Undo Redo Split Screen Clear Status Help Run

Simulations

- DataStore
- EucalyptusRotation
 - Memo
 - Weather
 - Clock
 - Summary
 - Soil Arbitrator
 - Plantation
 - Soil
 - Irrigation
 - Fertiliser
 - SurfaceOrganicMatter
 - MicroClimate
 - Eucalyptus
 - TreeManagement**
 - Report
 - LAI
 - AboveGroundWt
 - DBH
 - Height
 - Map

Parameters Script

Spacing (m) between plants within rows

Spacing (m) between rows

Cultivar

Planting Date (dd-mmm)

Harvest Age (years)

Amount of fertiliser N to be applied at planting (kg N/ha)

- BrazilPlasticClone
- BrazilSubTropicalClone
- BrazilTropicalClone
- FSABlueGum
- globulus
- globulusShepparton
- grandis
- grandisC15
- grandisC22
- grandisCoffsHarbour
- grandisXurophylla
- grandisXurophyllaC3334
- grandisXurophyllaC3336
- nitens**
- nitensLewisham
- saligna
- urophyllaXglobulus
- WABlueGum

Home EucalyptusRotationExample X

Save Save As Undo Redo Split Screen Clear Status Help Run

Simulations

- DataStore
- EucalyptusRotation
 - Memo
 - Weather
 - Clock
 - Summary
 - Soil Arbitrator
 - Plantation
 - Soil
 - Water
 - Physical
 - SoilWater
 - Organic
 - Chemical
 - Temperature
 - Nutrient
 - NO3
 - NH4
 - Urea
 - Irrigation
 - Fertiliser
 - SurfaceOrganicMatter
 - MicroClimate
 - Eucalyptus
 - TreeManagement

Parameters:

FOM C:N ratio (0-500)

Layered variables:

Depth	Carbon	SoilCNRatio	FBiom	Flert	FOM
mm	Total	g/g	0-1	0-1	kg/ha
0-100	1.500	14.500	0.040	0.400	0.294
100-400	1.000	14.500	0.030	0.500	0.253
400-1000	0.500	14.500	0.020	0.500	0.188
1000-2000	0.200	14.500	0.010	0.500	0.114
2000-3000	0.120	14.500	0.010	0.900	0.069
3000-4000	0.100	14.500	0.010	0.990	0.042
4000-5000	0.100	14.500	0.010	0.990	0.025
5000-6000	0.100	14.500	0.010	0.990	0.015

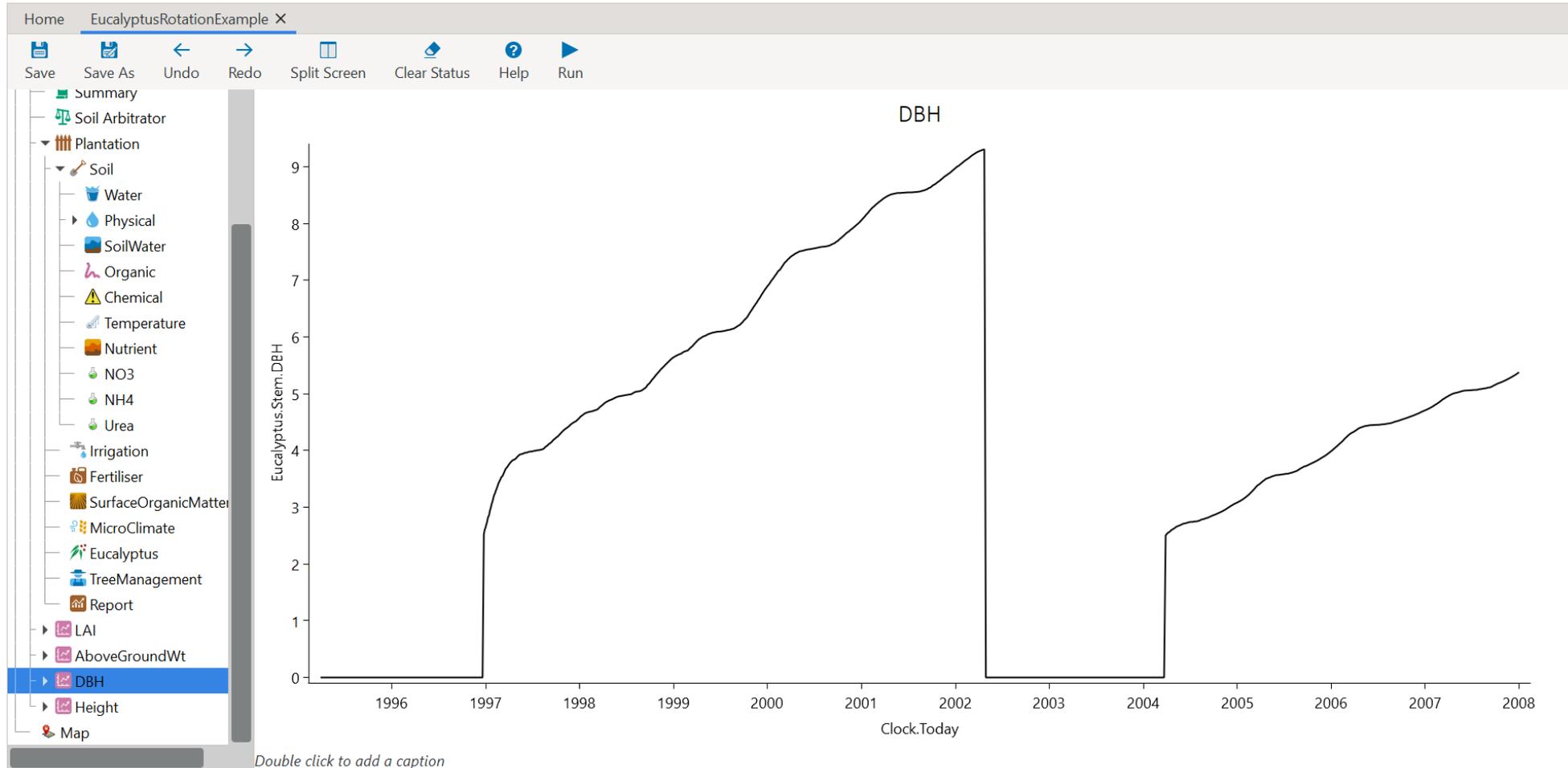
Fresh organic matter (kg/ha)

Depth (mm)

Fraction

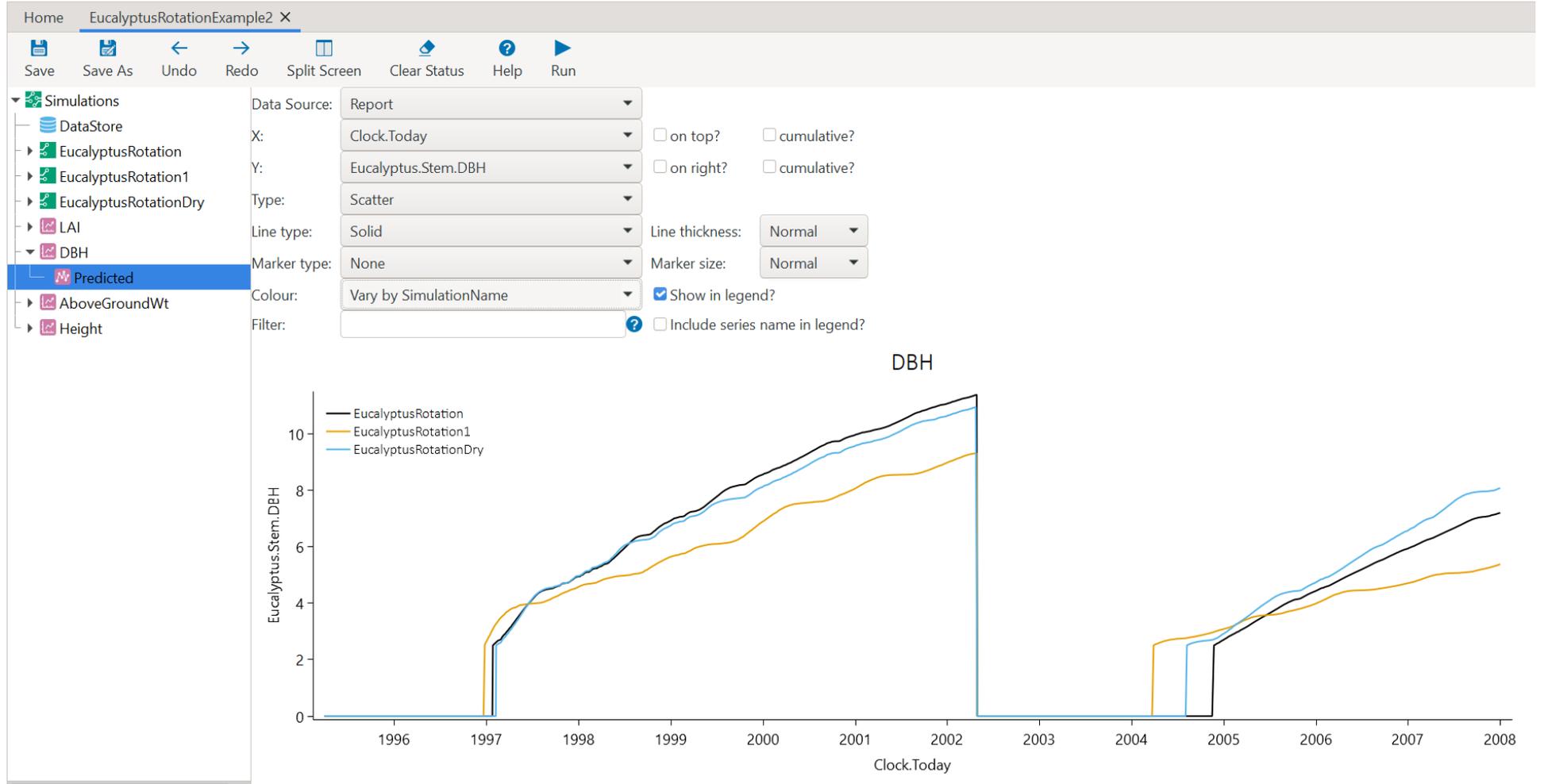
8 layers

"TreeManagement" compiled successfully



9. j-q

APSIM 2024.3.7419.0



10e.

APSIM 2021.10.11.6842

Home EucalyptusRotationExercises211005a

Save Save As Undo Redo Split screen Clear Status Help

LincolnDry
Memo
Clock
Weather
ClimateController
Summary
Soil Arbitrator
Plantation
Soil
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report

1. Enter latitude and longitude OR a country and place name.
2. Click 'search for soils'.
3. Select soils you want to add to your simulation.
3. Click 'Add selected soils to simulation'

More information: [APSOIL](#) [ISRIC](#)

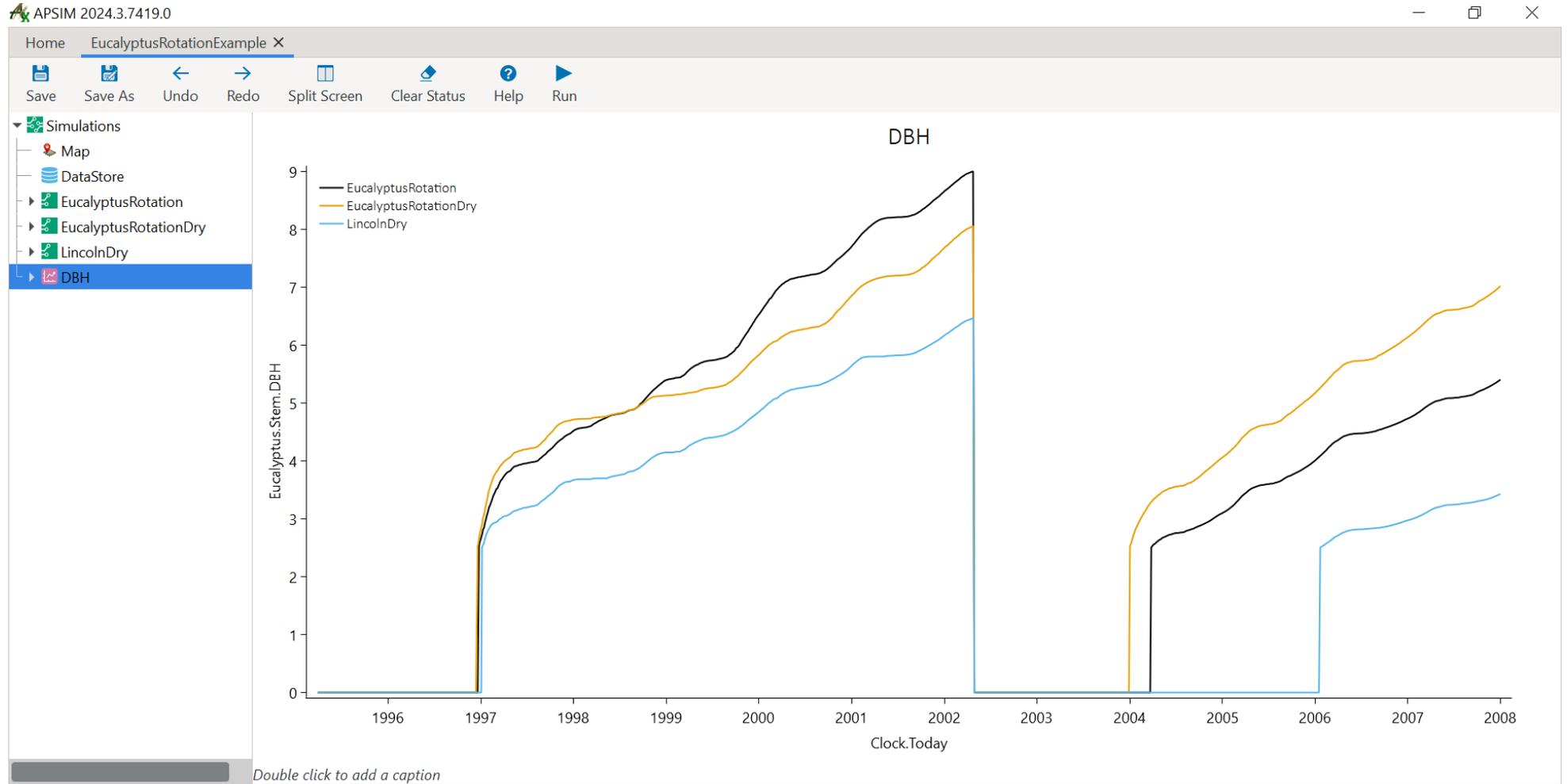
Latitude: Longitude:

Country: Place name:

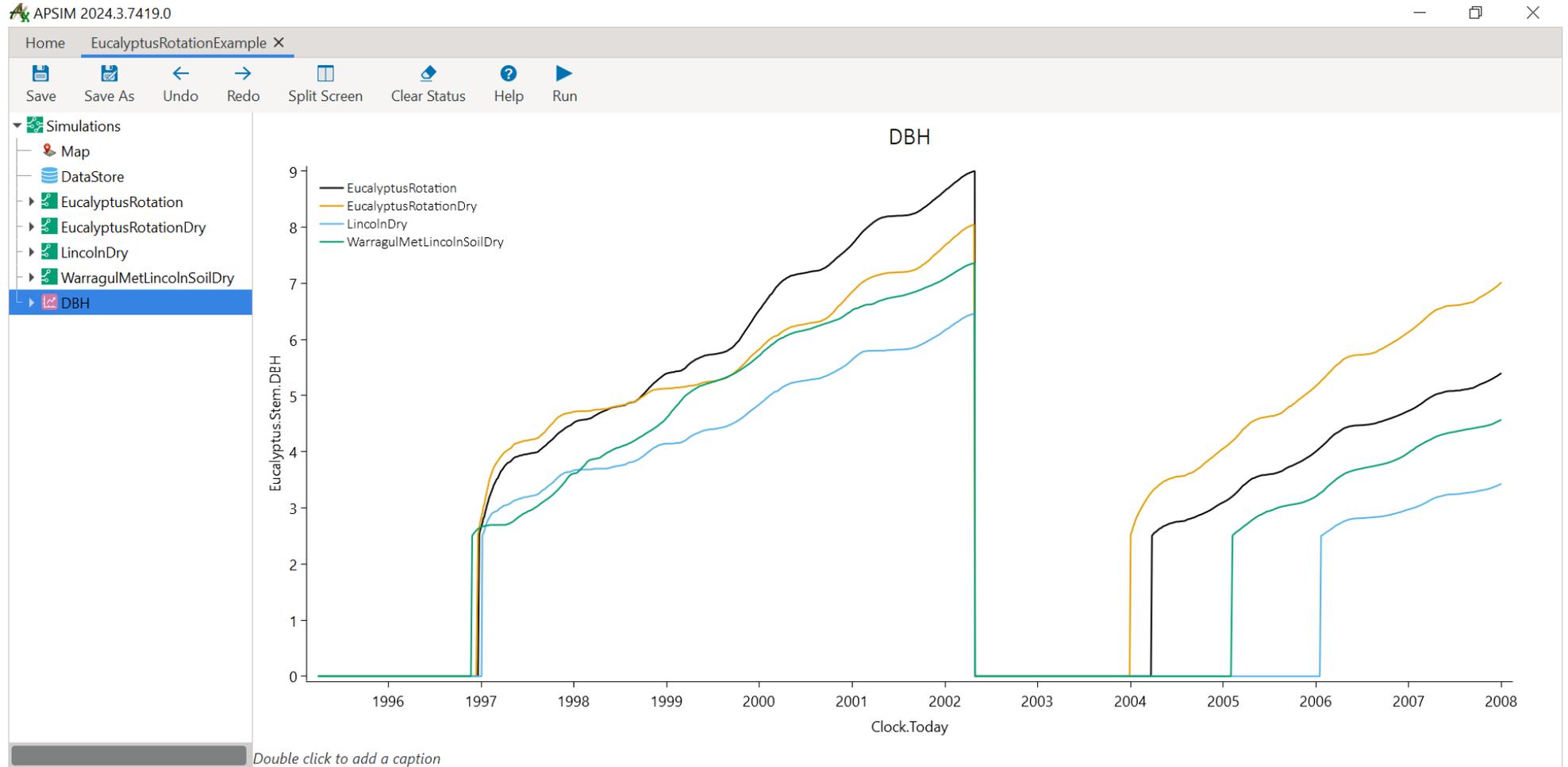
Search radius for APSOIL (km):

Name	Data source	Soil type	Distance (km)	PAWC for profile	PAWC to 300mm	PAWC to 600mm	PAWC to 1500mm
Silt loam (Lincoln DSIR Farm No1317)	APSOIL	Silt loam	0.2	306.1	55.1	115.8	306.1
Silt loam (Lincoln No1403)	APSOIL	Silt loam	0.6	124.8	53.3	77.5	124.8
Loam (Lincoln No1404)	APSOIL	Loam	0.6	123.9	52.4	76.6	123.9
Silt clay loam (Lincoln No1414)	APSOIL	Silt clay loam	1.7	226.4	49.8	85.1	226.4

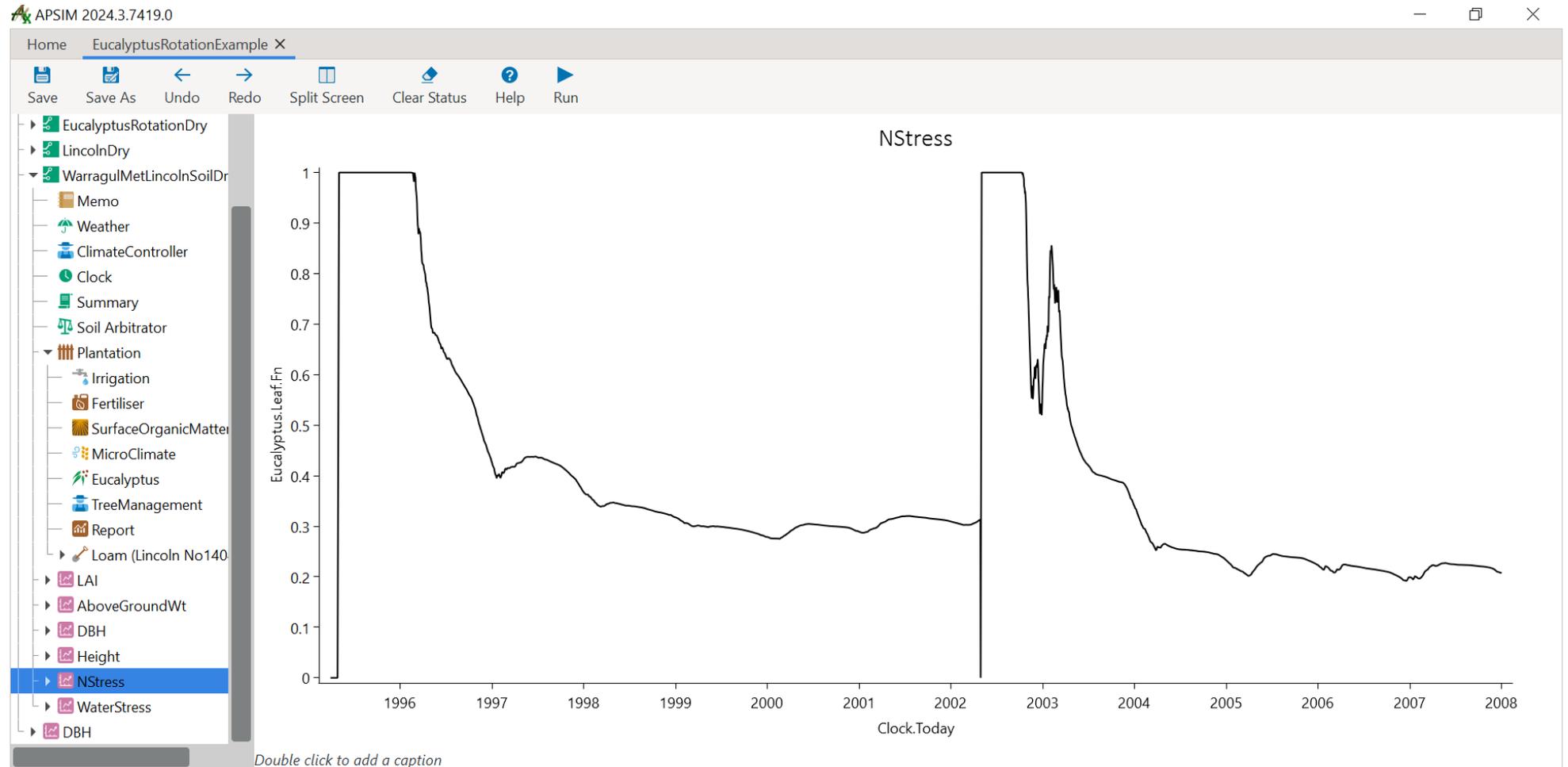
10j.



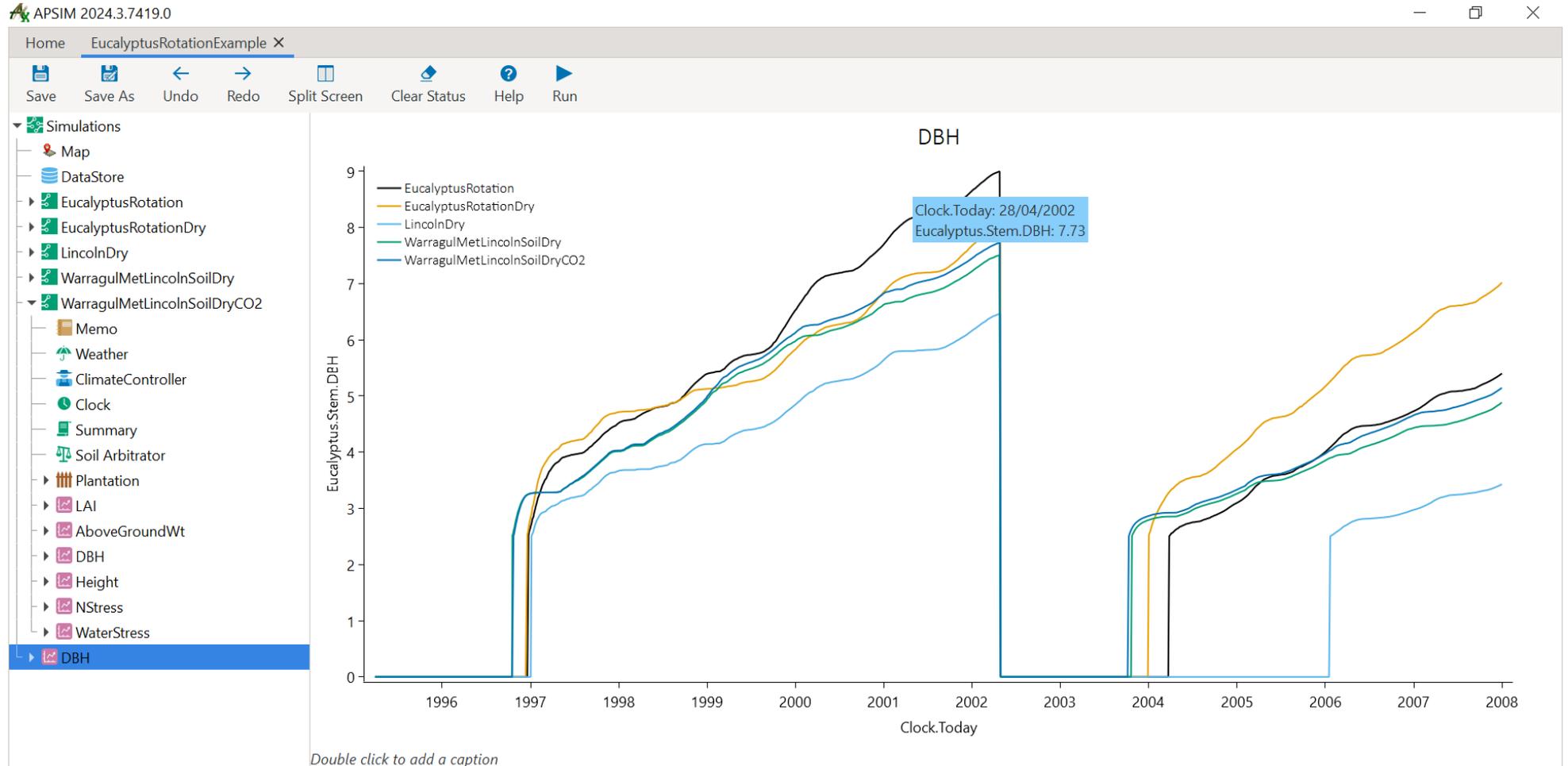
11d.



11h.



12b.



14k.

APSIM 2024.3.7419.0

Home EucalyptusRotationExample X Factorial (example) X

Save Save As Undo Redo Split Screen Clear Status Help Run

Simulations

- Replacements
 - Report
 - ReportAnnual
- Map
- DataStore
- EucalyptusRotation
- EucalyptusRotationDry
- LincolnDry
- WarragulMetLincolnSoilDry
- WarragulMetLincolnSoilDryCO2
 - Memo
 - Weather
 - ClimateController
 - Clock
 - Summary
 - Soil Arbitrator
 - Plantation
 - LAI
 - AboveGroundWt
 - DBH
 - Height
 - NStress
 - WaterStress
 - DBH

Properties Data

Table: ReportAnnual Checkpoint: Current

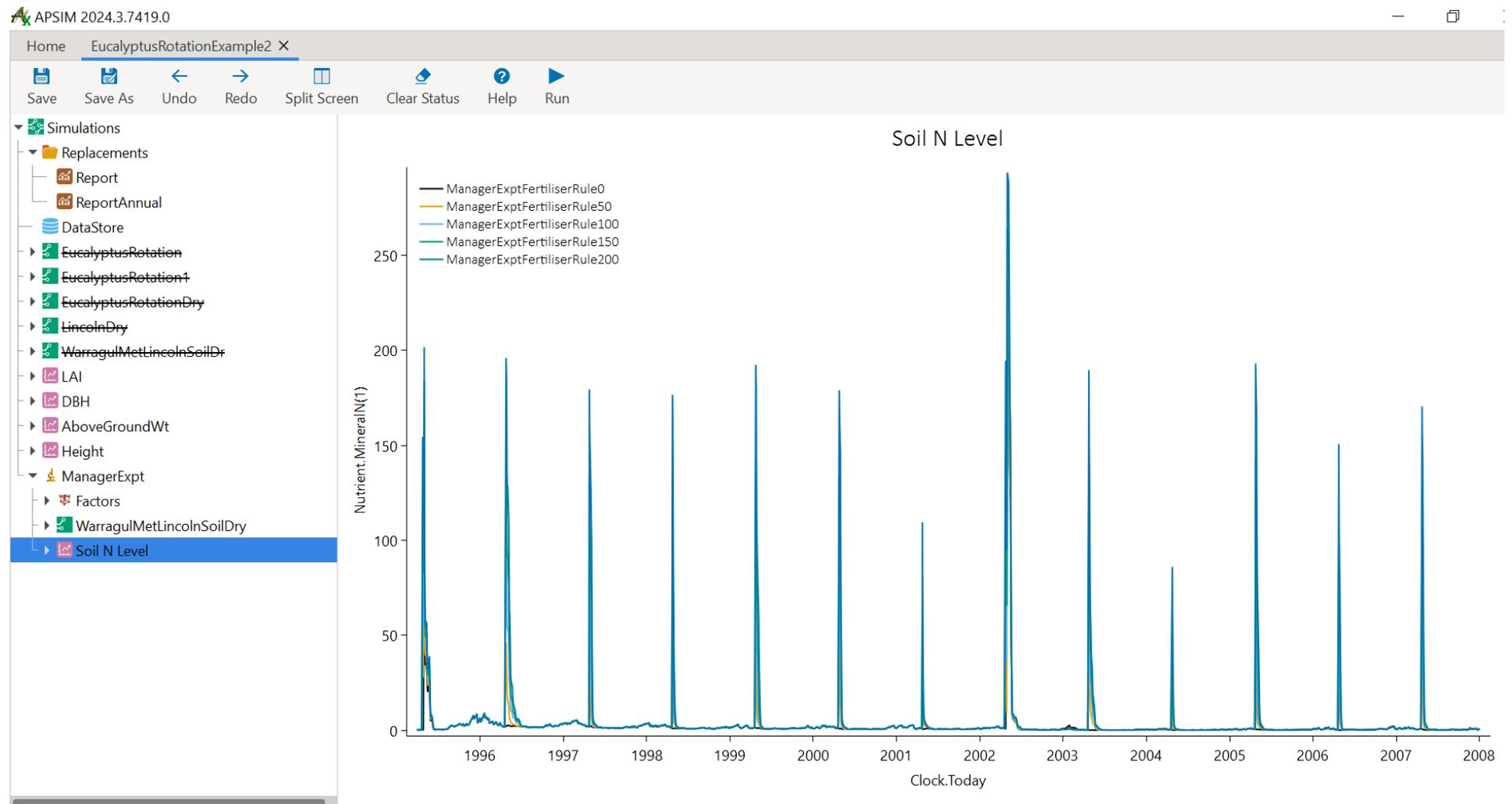
Column filter: Row filter:

SimulationName	Clock.Today	Zone	TreeManagement.Script.TimeSincePlanting	Eucalyptus.Age	Eucalyptus.AboveGround.Wt	Euc
EucalyptusRotation	1995-12-31	Plantation	0.671	0.665	13.196	
LincolnDry	1995-12-31	Plantation	0.671	0.665	13.196	
EucalyptusRotationDry	1995-12-31	Plantation	0.671	0.665	13.196	
WarragulMetLincolnSoilDryCO2	1995-12-31	Plantation	0.671	0.665	29.160	
EucalyptusRotation	1996-12-31	Plantation	1.674	1.667	1370.485	
LincolnDry	1996-12-31	Plantation	1.674	1.667	1241.035	
EucalyptusRotationDry	1996-12-31	Plantation	1.674	1.667	1477.130	
WarragulMetLincolnSoilDryCO2	1996-12-31	Plantation	1.674	1.667	1809.115	
EucalyptusRotation	1997-12-31	Plantation	2.674	2.667	2881.087	
LincolnDry	1997-12-31	Plantation	2.674	2.667	2130.010	
EucalyptusRotationDry	1997-12-31	Plantation	2.674	2.667	3070.940	
WarragulMetLincolnSoilDryCO2	1997-12-31	Plantation	2.674	2.667	2435.788	
EucalyptusRotation	1998-12-31	Plantation	3.674	3.666	3758.571	
LincolnDry	1998-12-31	Plantation	3.674	3.666	2537.257	
EucalyptusRotationDry	1998-12-31	Plantation	3.674	3.666	3484.724	

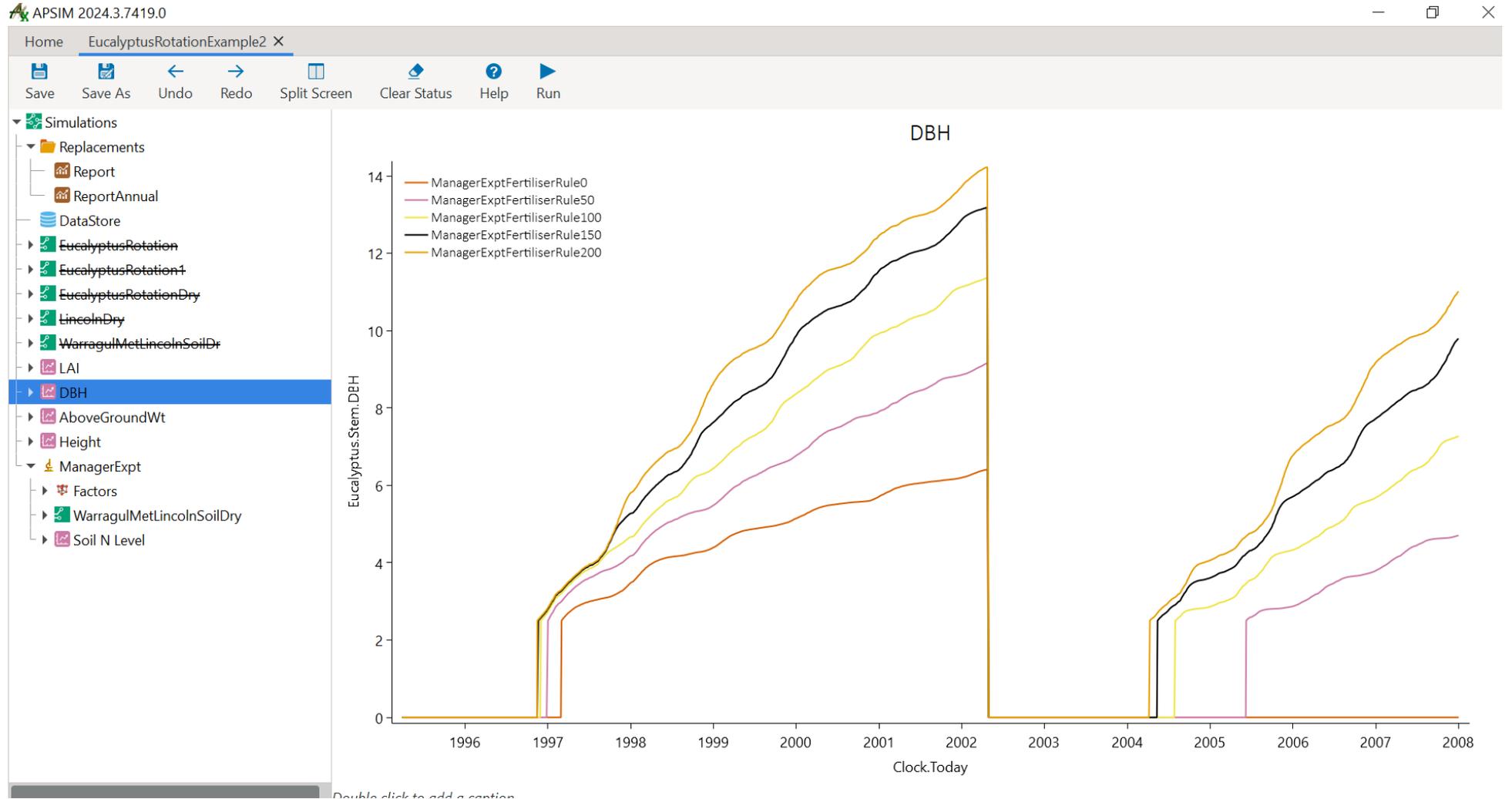
Number of rows: 65

Successfully saved to C:\Users\sme016\OneDrive - CSIRO\1. Rafael Visit 2023\APSIM Training Workshop\Sims\EucalyptusRotationExample.apsimx

15h., 15m. and 15q.



15q.

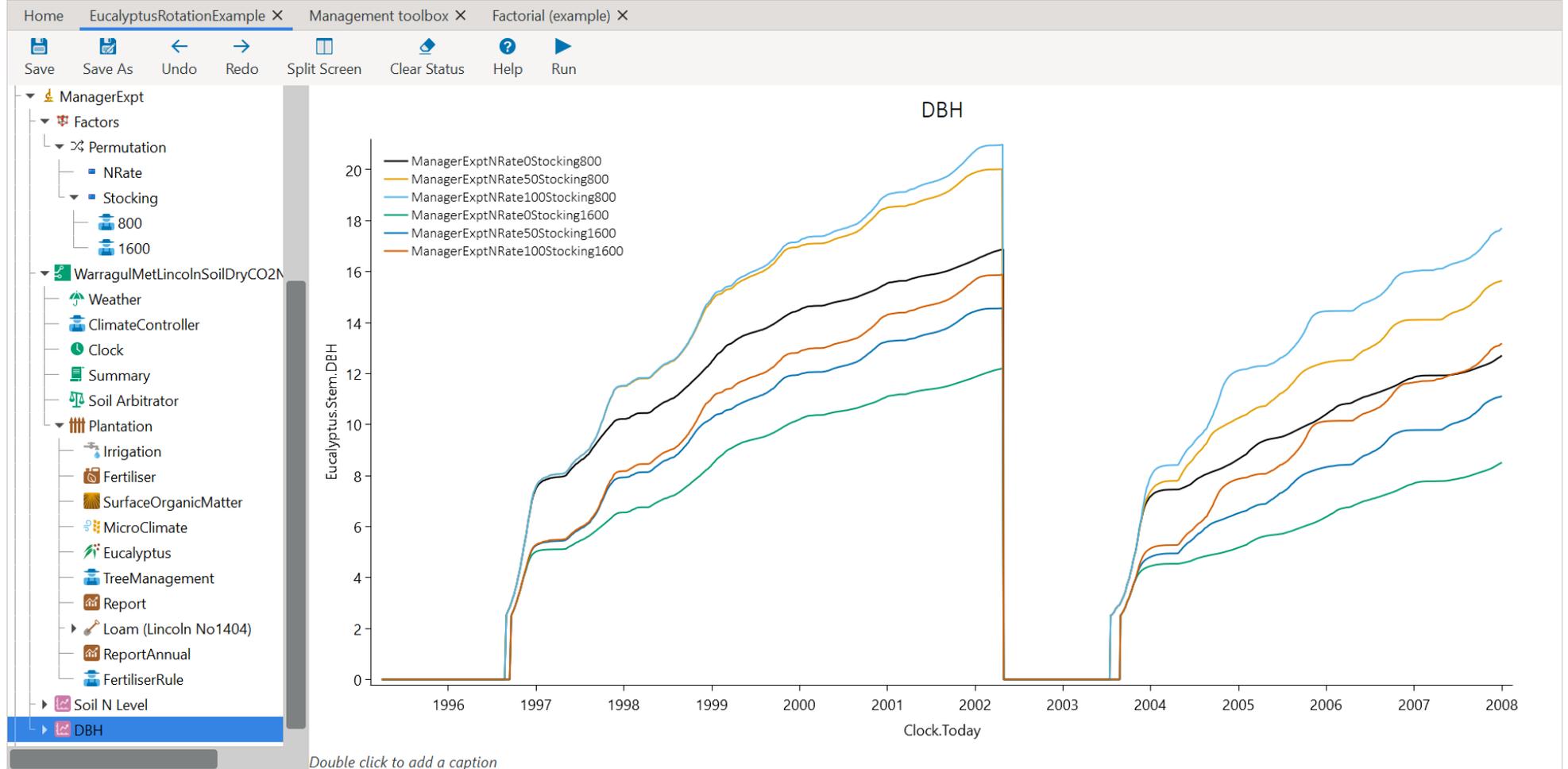


15r.

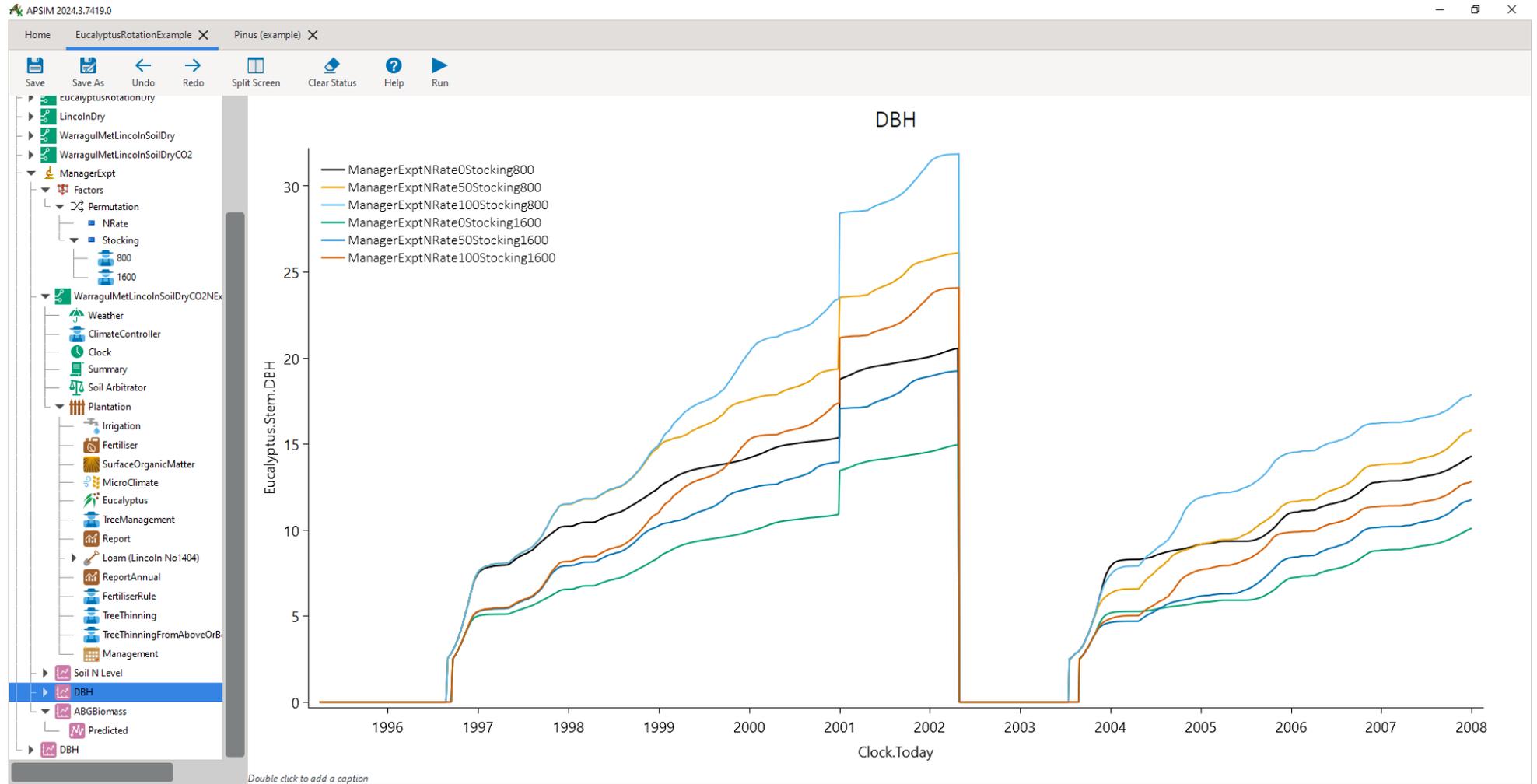
The screenshot displays the APSIM 2024.3.7419.0 software interface. The window title is "APSIM 2024.3.7419.0" and it has three tabs: "Home", "EucalyptusRotationExample", and "Management toolbox". The "Management toolbox" tab is active, showing a "Parameters" window for the "WarragulMetLincolnSoilDryCO2" model. The "Parameters" window has two tabs: "Parameters" and "Script". The "Parameters" tab is selected, showing a list of parameters and their values:

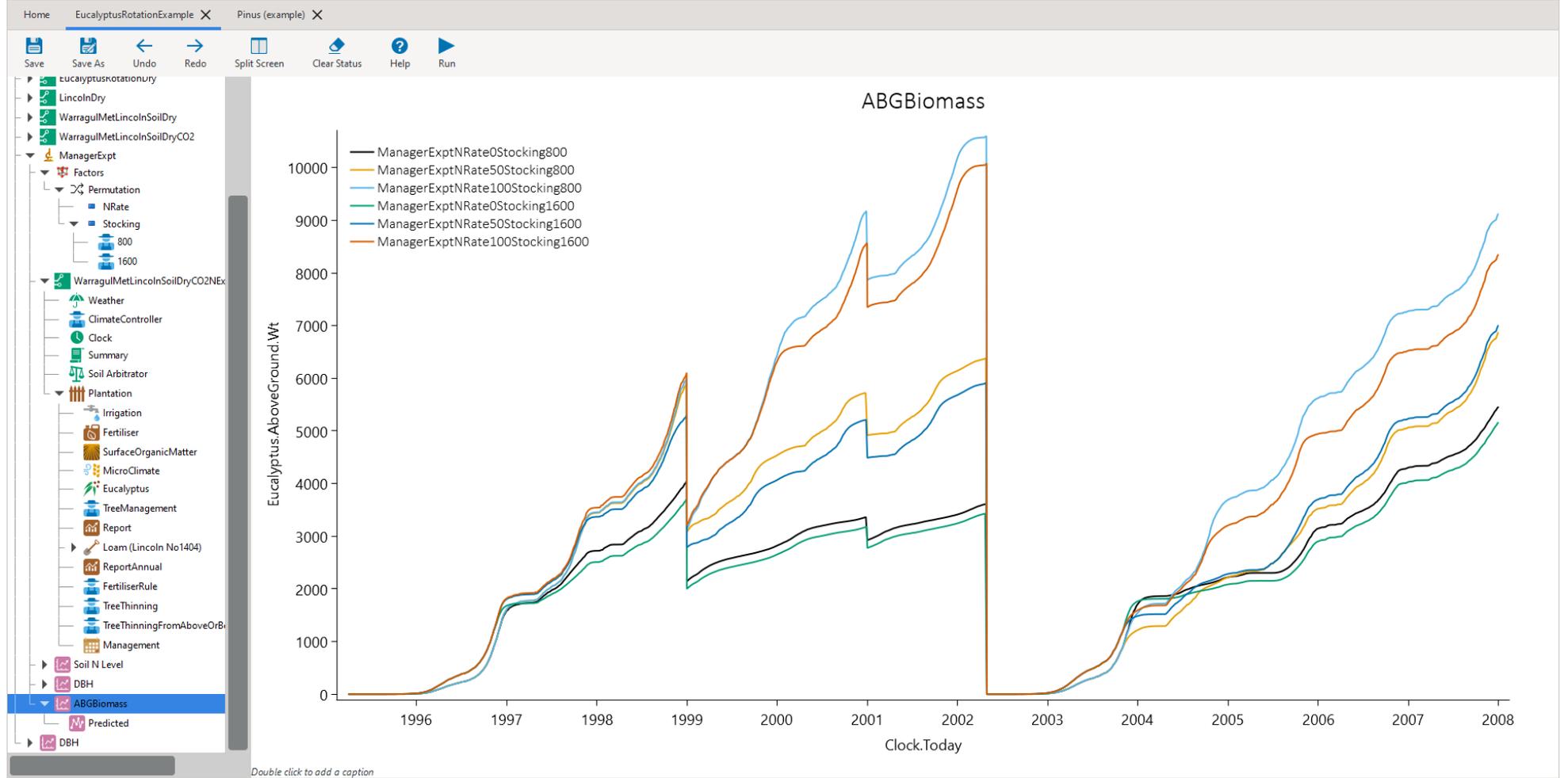
Parameter	Value
Spacing (m) between plants within rows	4.1667
Spacing (m) between rows	3
Cultivar	nitens
Planting Date (dd-mmm)	1-may
Harvest Age (years)	7
Amount of fertiliser N to be applied at planting (kg N/ha)	200

The left sidebar shows a tree view of the model components. The "ManagerExpt" component is expanded, showing "Factors" and "Permutation". The "Permutation" component is expanded, showing "NRate" and "Stocking". The "Stocking" component is expanded, showing "800" and "1600". The "WarragulMetLincolnSoilDryCO2" component is expanded, showing "Weather", "ClimateController", "Clock", "Summary", "Soil Arbitrator", "Plantation", "Irrigation", "Fertiliser", "SurfaceOrganicMatter", "MicroClimate", "Eucalyptus", "TreeManagement", "Report", "Loam (Lincoln No1404)", and "ReportAnnual".

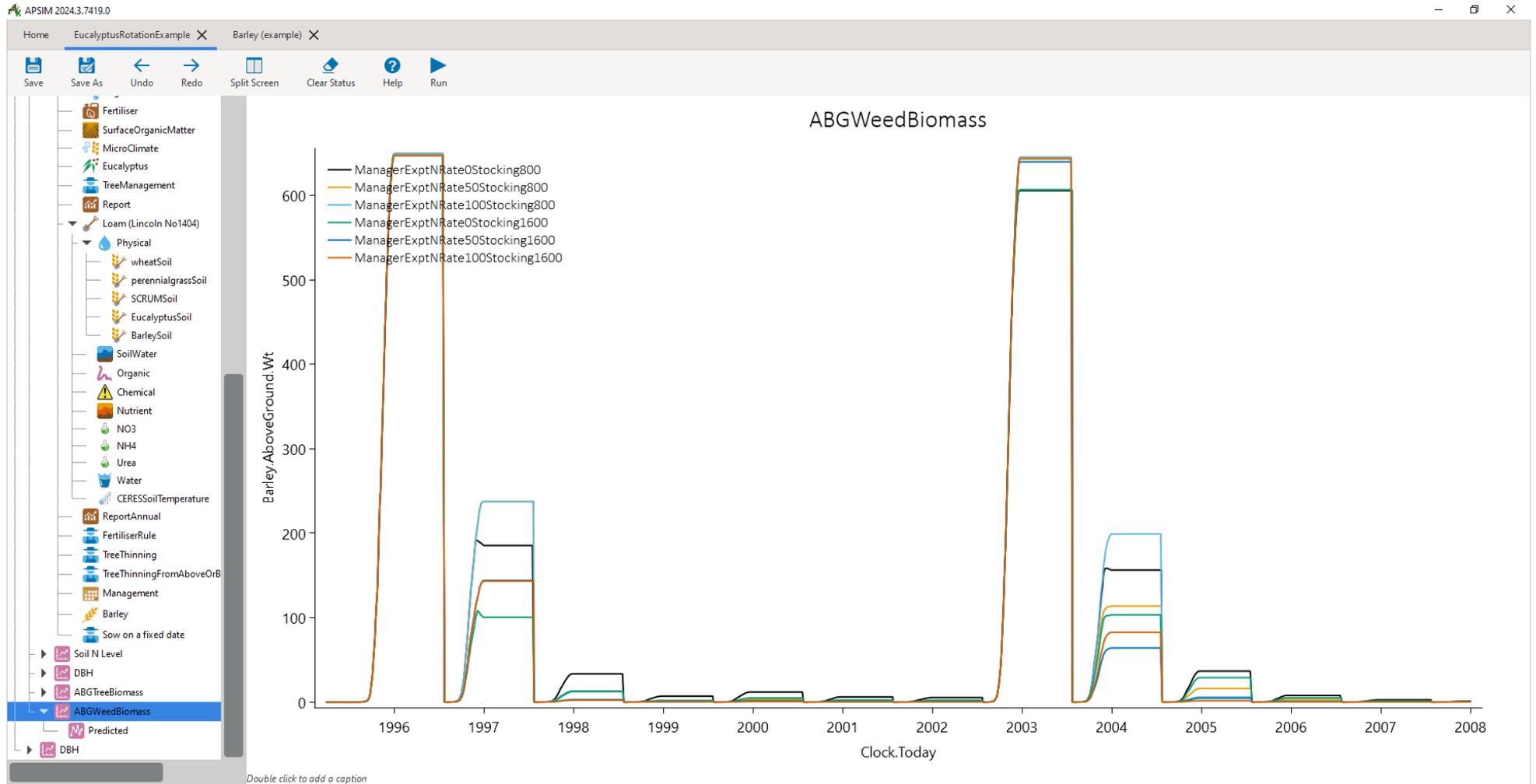


16d.

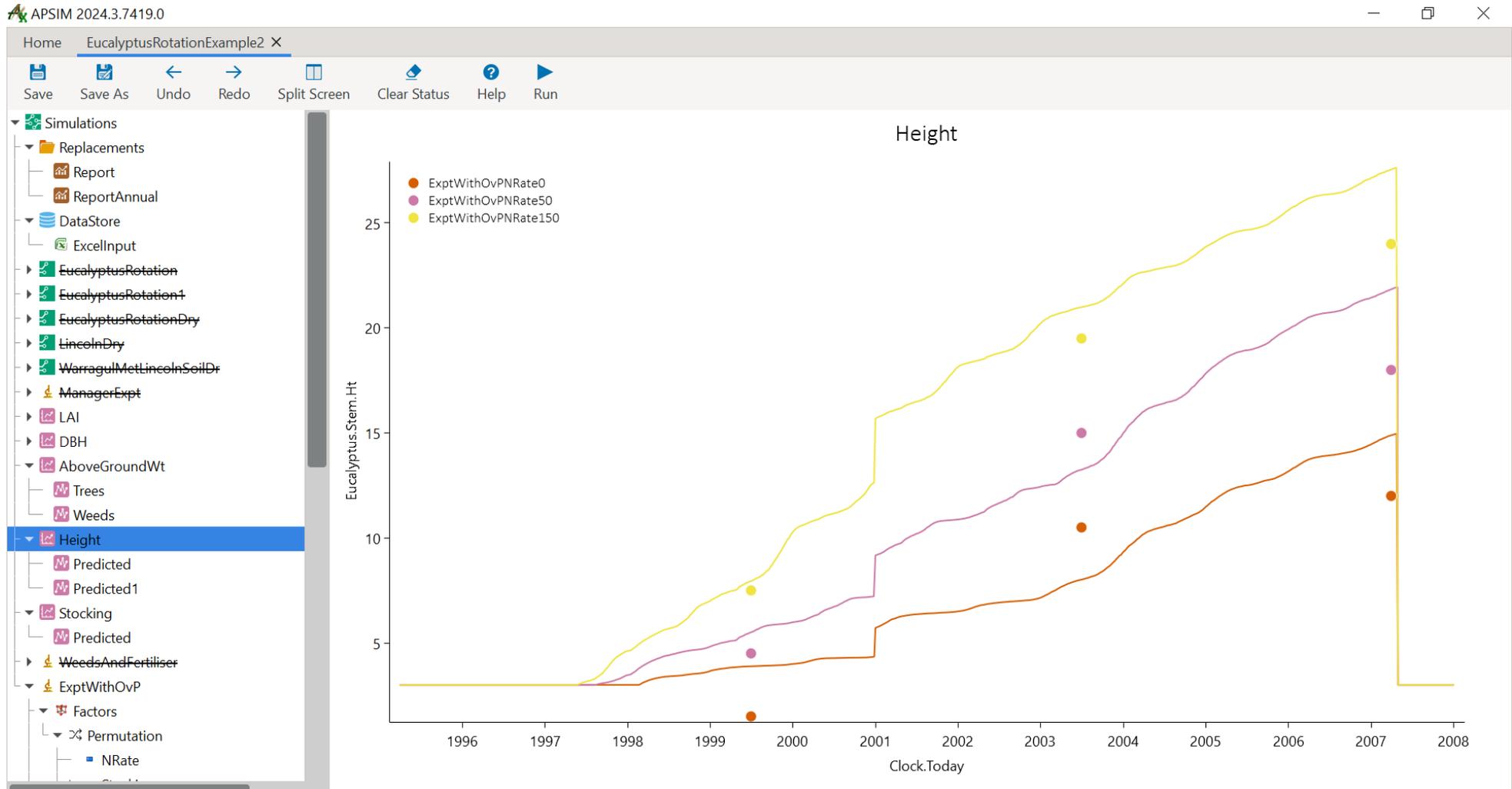




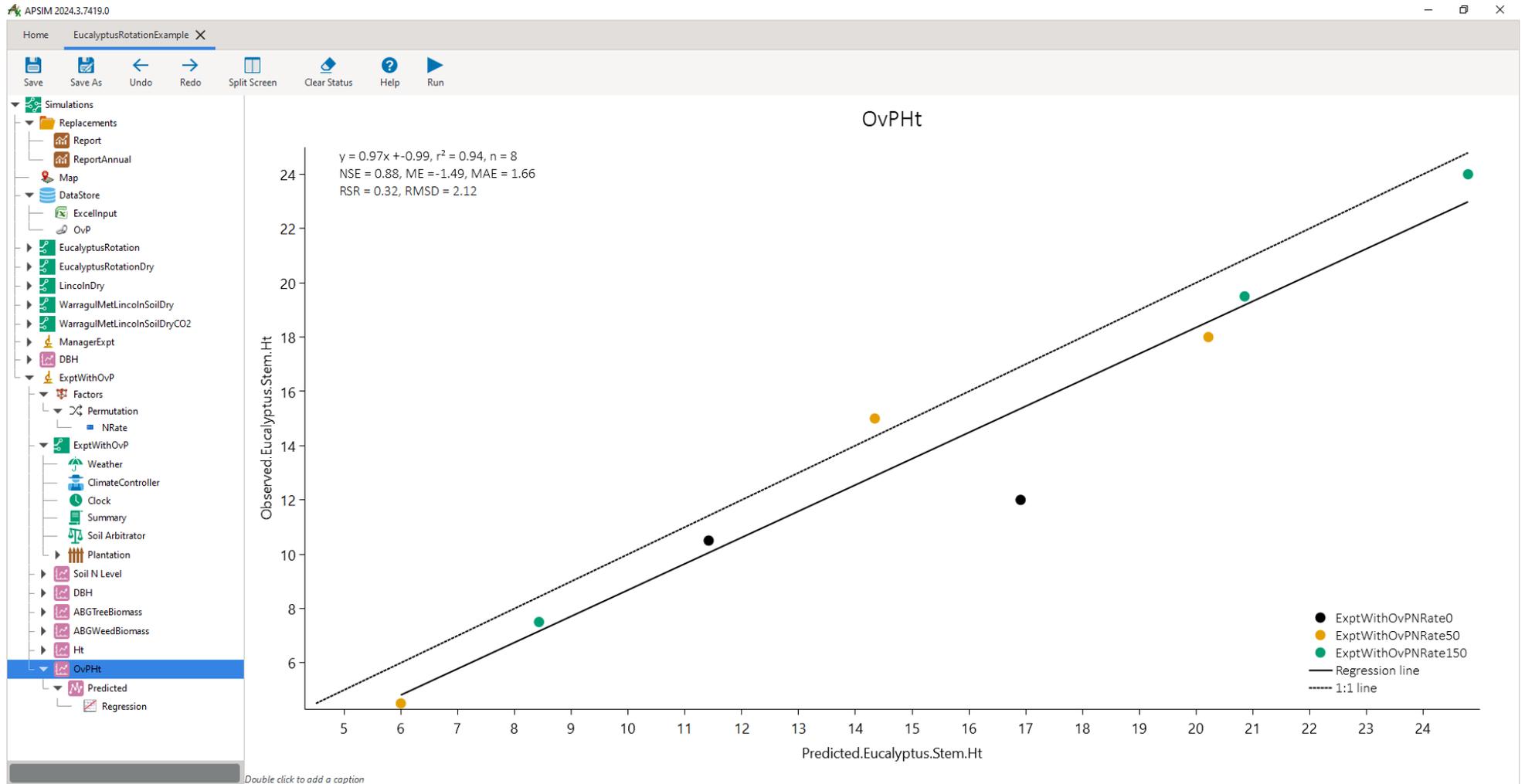
17h.



18k.

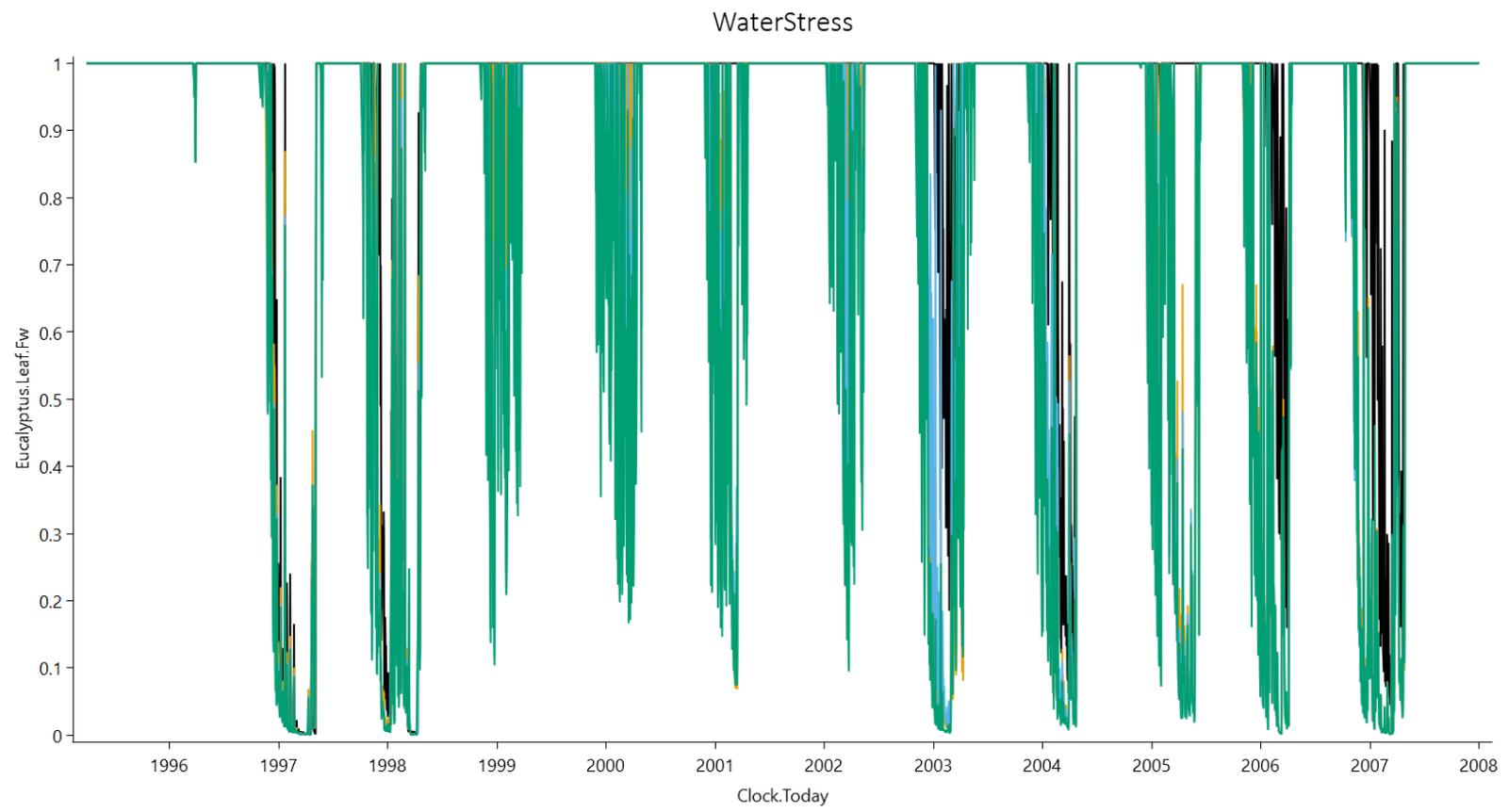


19i.



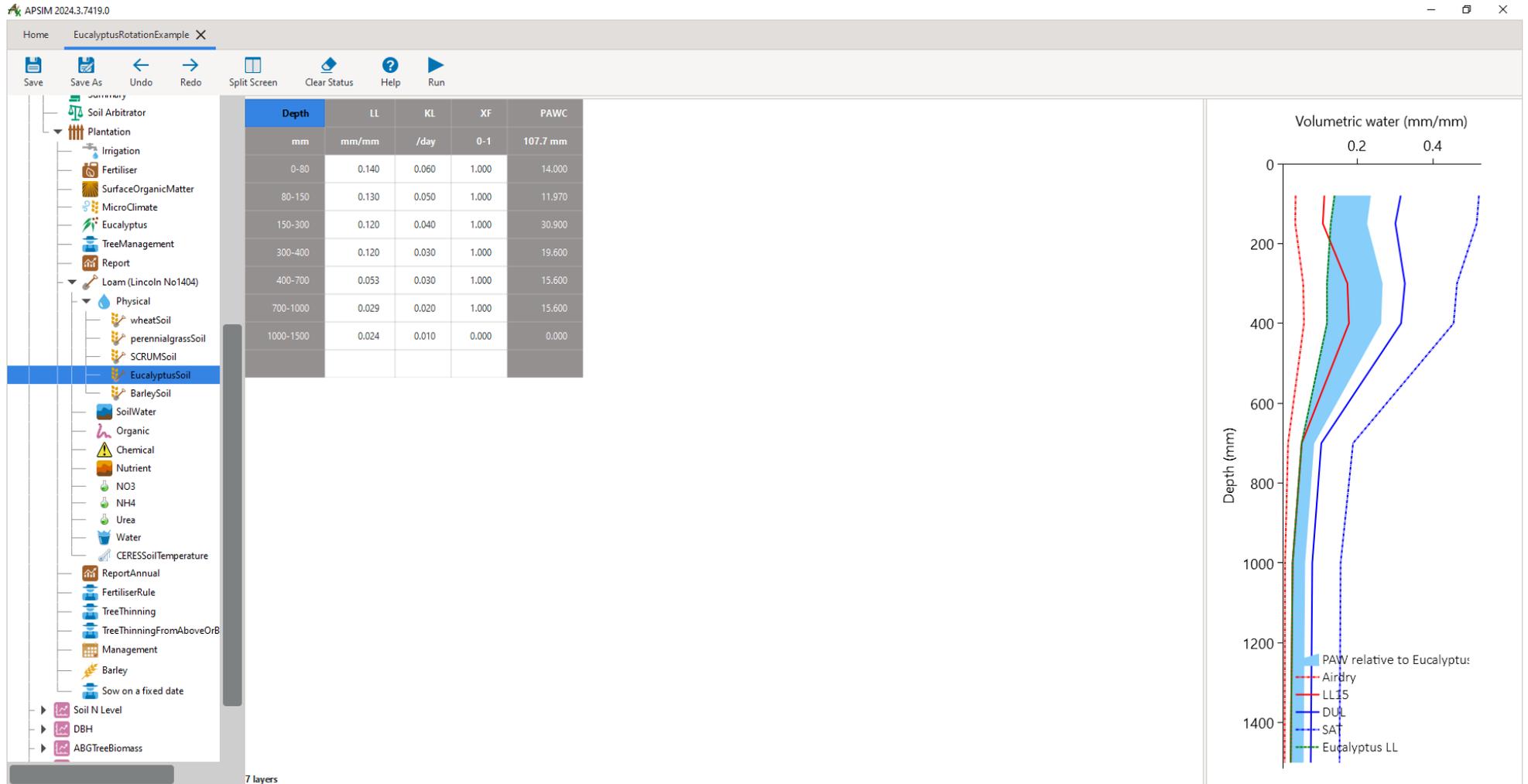


- Weather
- ClimateController
- Clock
- Summary
- Soil Arbitrator
- Plantation
- LAI
- AboveGroundWt
- DBH
- Height
- NStress
- WaterStress
- WarragulMetLincolnSoilDryCO2
- ManagerExpt
- DBH
- ExptWithOvP
- Factors
- Permutation
- NRate
- ExptWithOvP
- Weather
- ClimateController
- Clock
- Summary
- Soil Arbitrator
- Plantation
- Soil N Level
- DBH
- ABGTreeBiomass
- ABGWeedBiomass
- Ht
- OvPHt
- NStress
- Predicted
- WaterStress
- Predicted



Double click to add a caption

20h.



Home EucalyptusRotationExample

Save Save As Undo Redo Split Screen Clear Status Help Run

- Soil Arbitrator
- Plantation
- Irrigation
- Fertiliser
- SurfaceOrganicMatter
- MicroClimate
- Eucalyptus
- TreeManagement
- Report
- Loam (Lincoln No1404)
 - Physical
 - wheatSoil
 - perennialgrassSoil
 - SCRUMSoil
 - EucalyptusSoil
 - BarleySoil
 - SoilWater
 - Organic**
 - Chemical
 - Nutrient
 - NO3
 - NH4
 - Urea
 - Water
 - CERESSoilTemperature
 - ReportAnnual
 - FertiliserRule
 - TreeThinning
 - TreeThinningFromAboveOrB
 - Management
 - Barley
 - Sow on a fixed date
- Soil N Level
- DBH
- ABGTreeBiomass

Parameters:

FOM CN ratio (0-500)

Layered variables:

Depth	Carbon	SoilCNRatio	FBiom	FIInert	FOM
mm	Total	g/g	0-1	0-1	kg/ha
0-80	1.300	17.000	0.080	0.176	33.828
80-150	1.200	17.000	0.072	0.275	29.409
150-300	1.000	17.000	0.031	0.594	21.787
300-400	0.710	17.000	0.008	0.820	17.837
400-700	0.540	17.000	0.008	0.916	9.789
700-1000	0.410	17.000	0.008	1.000	5.373
1000-1500	0.360	17.000	0.008	1.000	1.976

Fresh organic matter (kg/ha)

Depth (mm)

Fraction

7 layers

