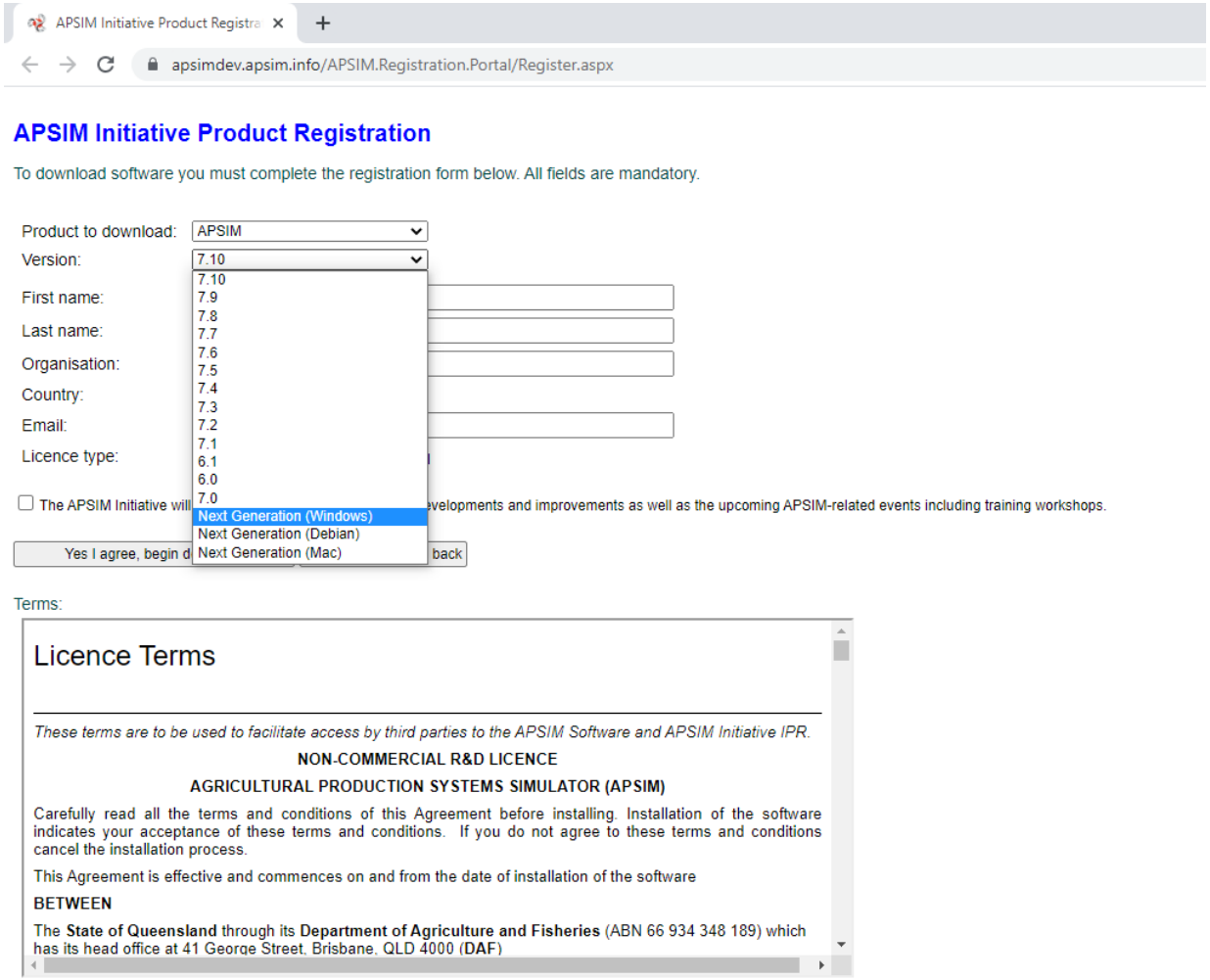
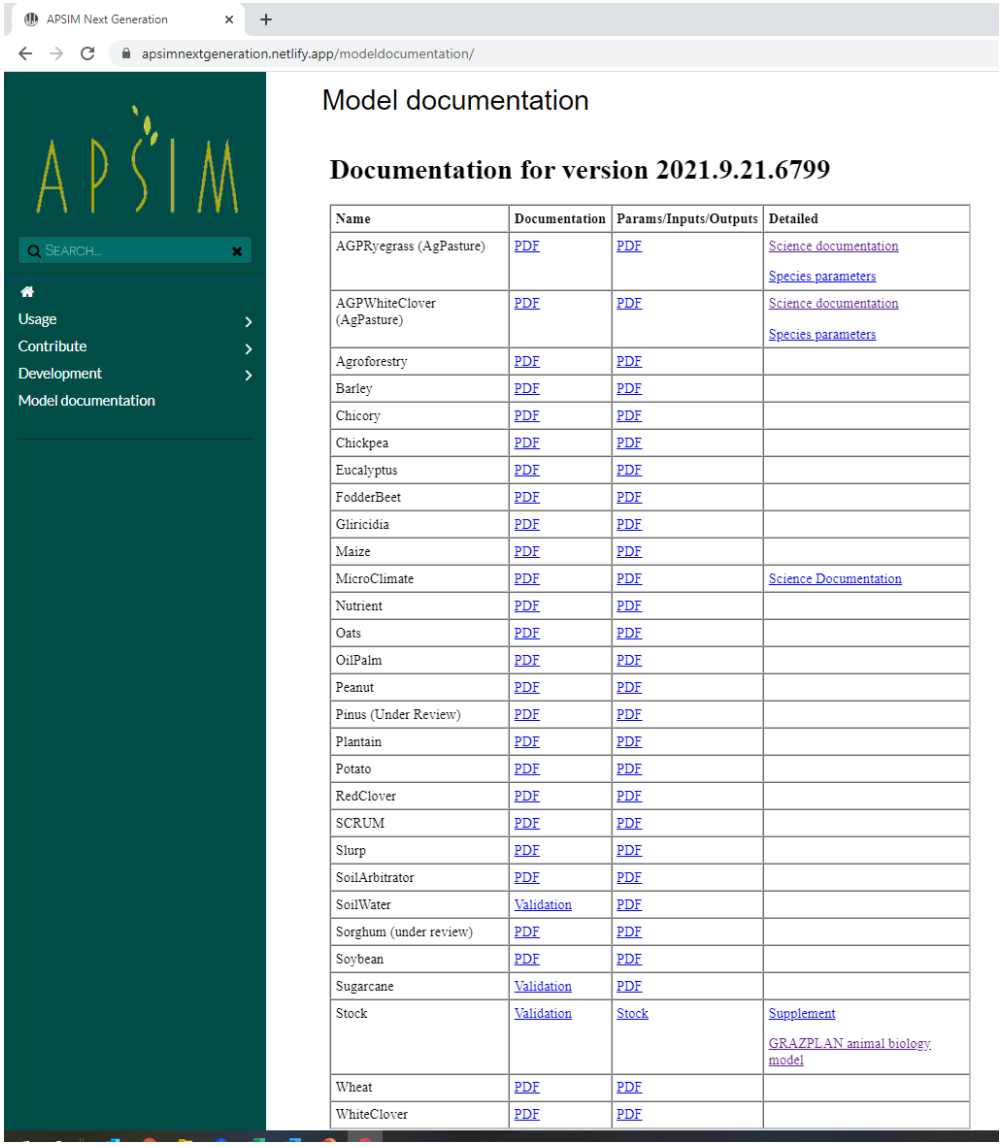
This is the collection of screenshots associated with the exercises described in the file *APSIMForPlantationForestryInstructionsExercises.docx.* The screenshots are number by exercise part. However, screenshots are not available for every step of every exercise.
You might not exactly create the values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

1b and 3b.

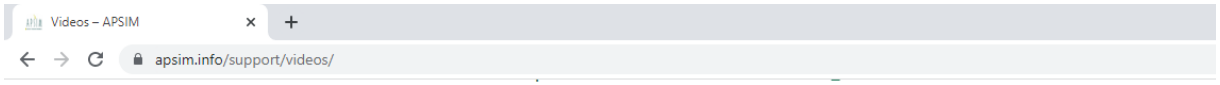


1c.



Name	Documentation	Params/Inputs/Outputs	Detailed
AGPRyegrass (AgPasture)	PDF	PDF	Science documentation Species parameters
AGPWhiteClover (AgPasture)	PDF	PDF	Science documentation Species parameters
Agroforestry	PDF	PDF	
Barley	PDF	PDF	
Chicory	PDF	PDF	
Chickpea	PDF	PDF	
Eucalyptus	PDF	PDF	
FodderBeet	PDF	PDF	
Gliricidia	PDF	PDF	
Maize	PDF	PDF	
MicroClimate	PDF	PDF	Science Documentation
Nutrient	PDF	PDF	
Oats	PDF	PDF	
OilPalm	PDF	PDF	
Peanut	PDF	PDF	
Pinus (Under Review)	PDF	PDF	
Plantain	PDF	PDF	
Potato	PDF	PDF	
RedClover	PDF	PDF	
SCRUM	PDF	PDF	
Slurp	PDF	PDF	
SoilArbitrator	PDF	PDF	
SoilWater	Validation	PDF	
Sorghum (under review)	PDF	PDF	
Soybean	PDF	PDF	
Sugarcane	Validation	PDF	
Stock	Validation	Stock	Supplement GRAZPLAN animal biology model
Wheat	PDF	PDF	
WhiteClover	PDF	PDF	

1d.



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

2014 – APSIM Science Week

How to debug an APSIM Classic simulation

Pests And Diseases In APSIM

How To Use The Factorial Capability

How To Use The APSIM Manager

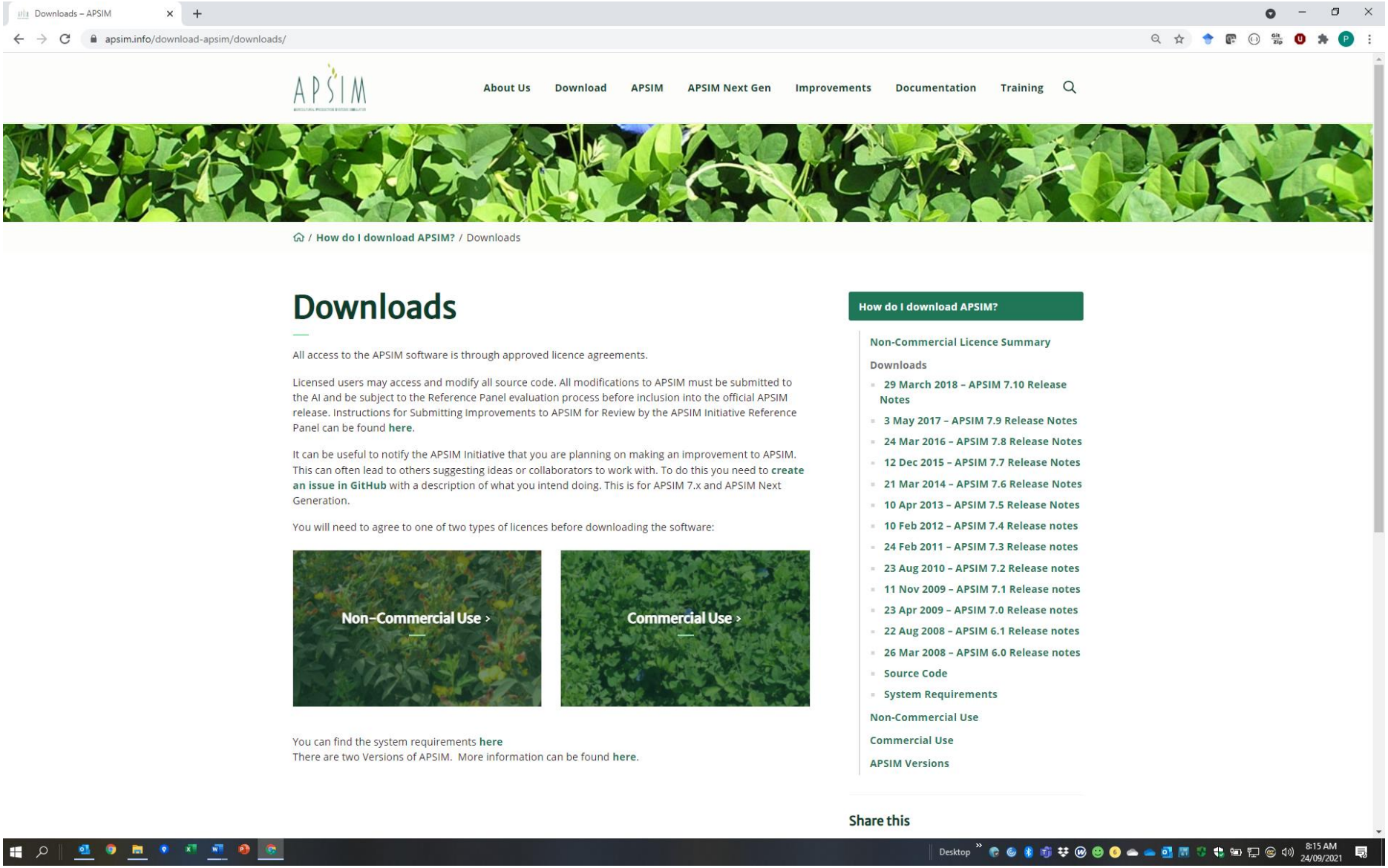
How To Simulate Multiple Paddocks

APSIM Related Videos

Video developed for Indian conditions (South Asian Association for Regional Cooperation funded project):

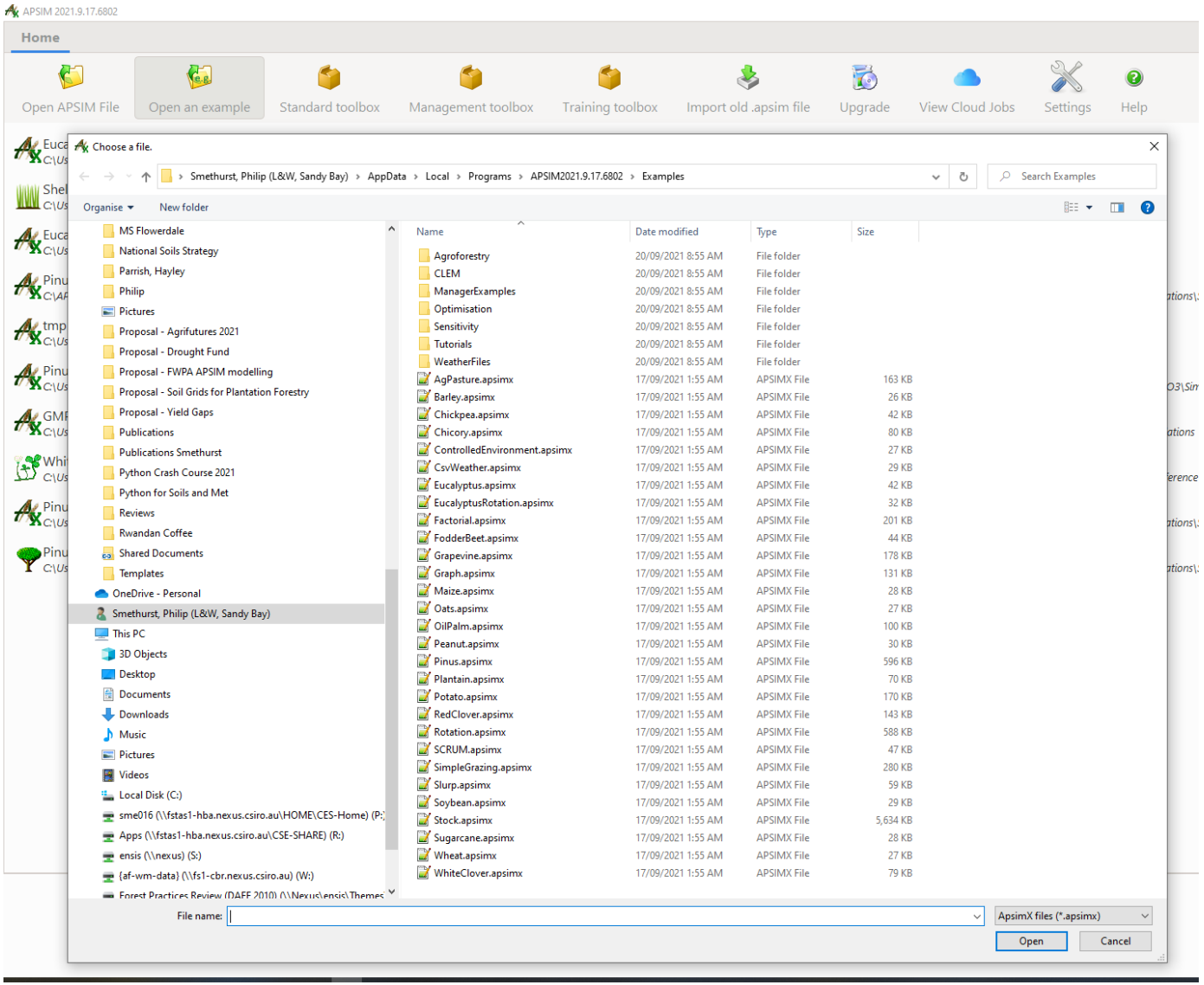
Crop yield modelling under different climatic scenarios using APSIM

2.

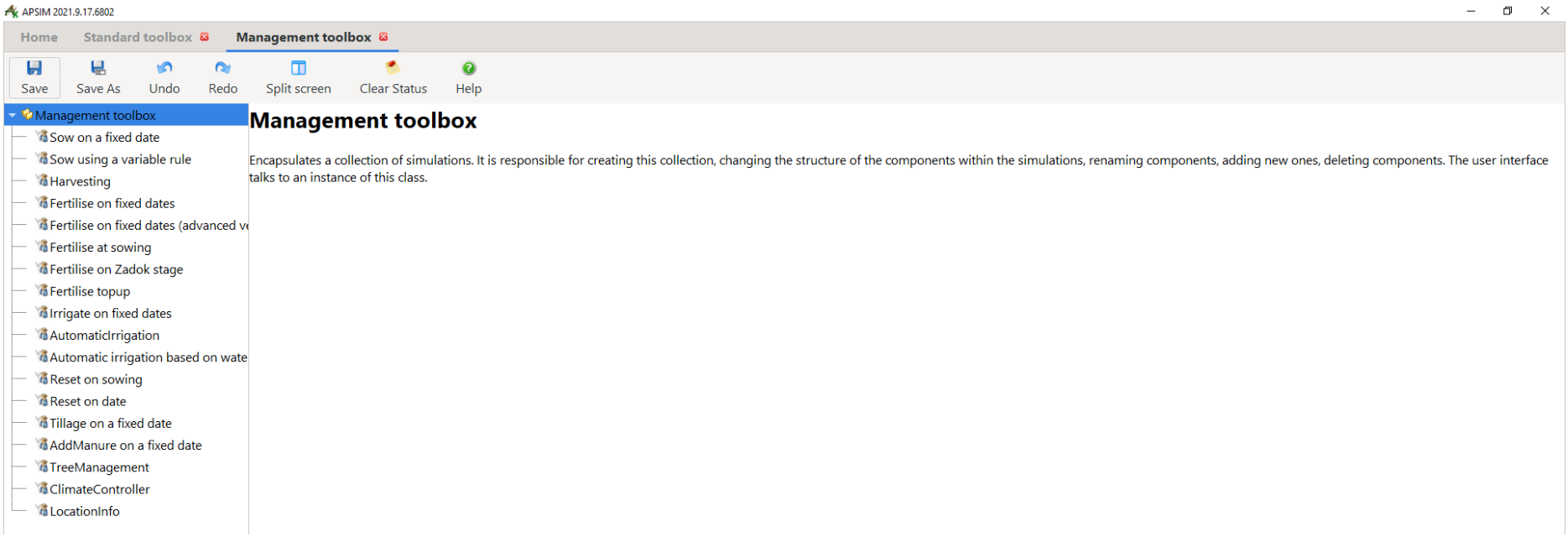

Downloads – APSIM
apsim.info/download-apsim/downloads/
APSIM
About Us
Download
APSIM
APSIM Next Gen
Improvements
Documentation
Training
/ How do I download APSIM? / Downloads
Downloads
All access to the APSIM software is through approved licence agreements.
Licensed users may access and modify all source code. All modifications to APSIM must be submitted to the AI and be subject to the Reference Panel evaluation process before inclusion into the official APSIM release. Instructions for Submitting Improvements to APSIM for Review by the APSIM Initiative Reference Panel can be found here.
It can be useful to notify the APSIM Initiative that you are planning on making an improvement to APSIM. This can often lead to others suggesting ideas or collaborators to work with. To do this you need to create an issue in GitHub with a description of what you intend doing. This is for APSIM 7.x and APSIM Next Generation.
You will need to agree to one of two types of licences before downloading the software:
Non-Commercial Use ›
Commercial Use ›
You can find the system requirements here
There are two Versions of APSIM. More information can be found here.
How do I download APSIM?
Non-Commercial Licence Summary
Downloads
29 March 2018 – APSIM 7.10 Release Notes
3 May 2017 – APSIM 7.9 Release Notes
24 Mar 2016 – APSIM 7.8 Release Notes
12 Dec 2015 – APSIM 7.7 Release Notes
21 Mar 2014 – APSIM 7.6 Release Notes
10 Apr 2013 – APSIM 7.5 Release Notes
10 Feb 2012 – APSIM 7.4 Release notes
24 Feb 2011 – APSIM 7.3 Release notes
23 Aug 2010 – APSIM 7.2 Release notes
11 Nov 2009 – APSIM 7.1 Release notes
23 Apr 2009 – APSIM 7.0 Release notes
22 Aug 2008 – APSIM 6.1 Release notes
26 Mar 2008 – APSIM 6.0 Release notes
Source Code
System Requirements
Non-Commercial Use
Commercial Use
APSIM Versions
Share this
Desktop
8:15 AM
24/09/2021

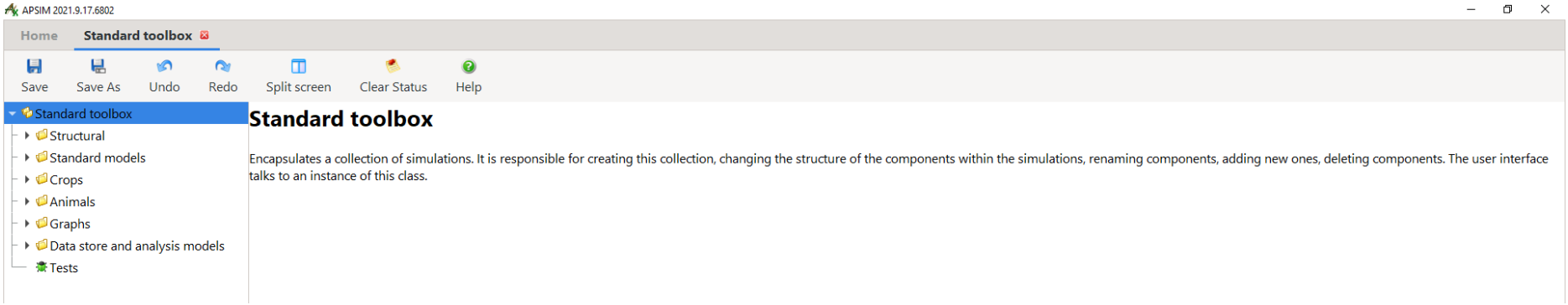
3. – see 1b above

4a.

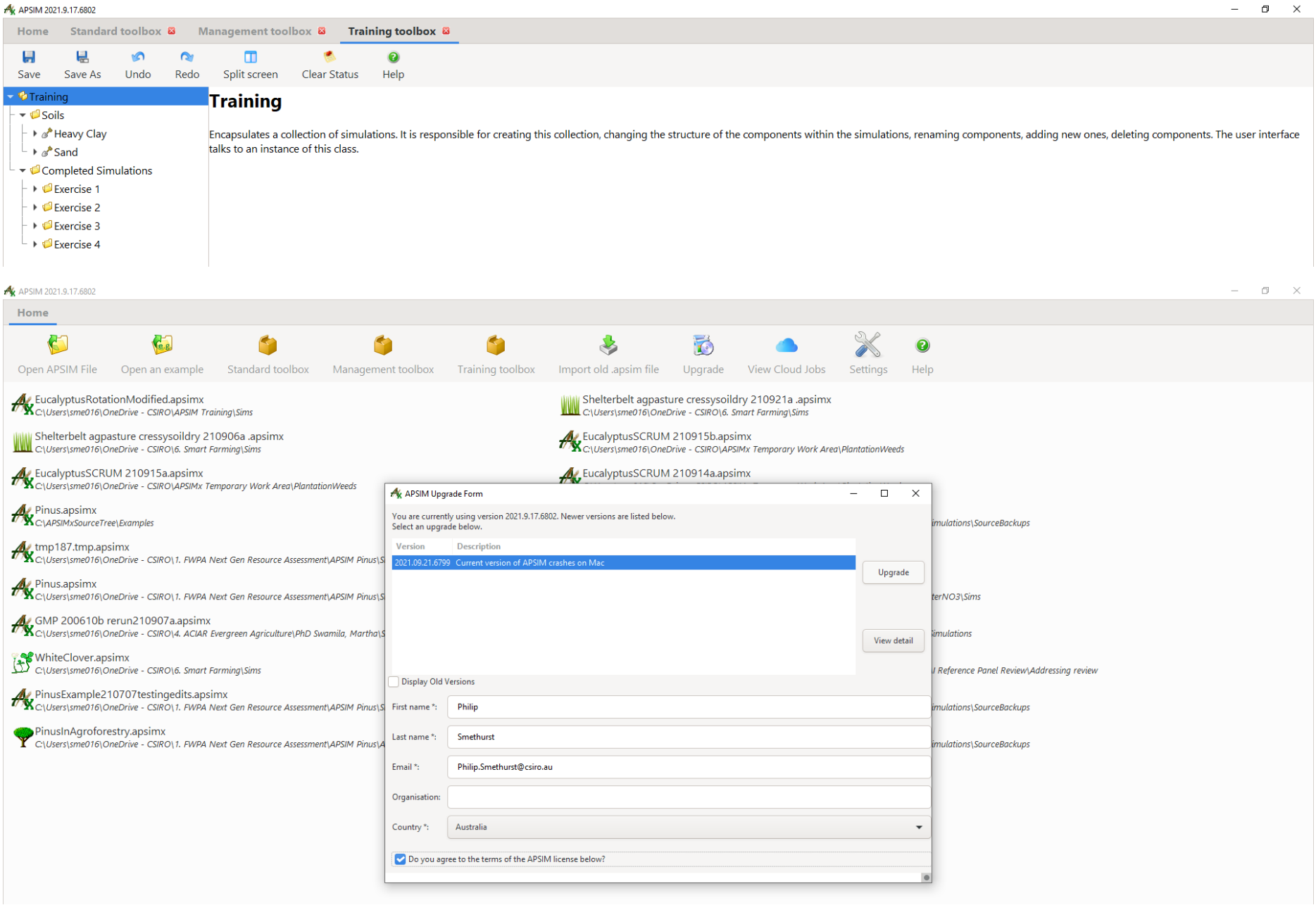


4a (continued)

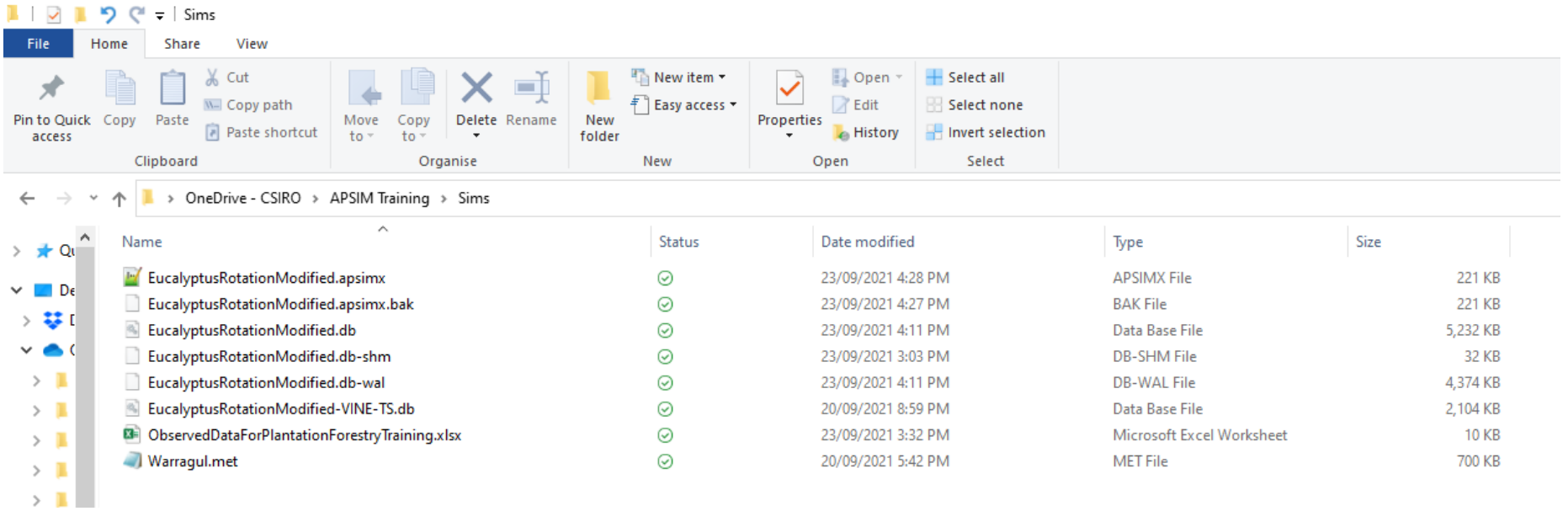




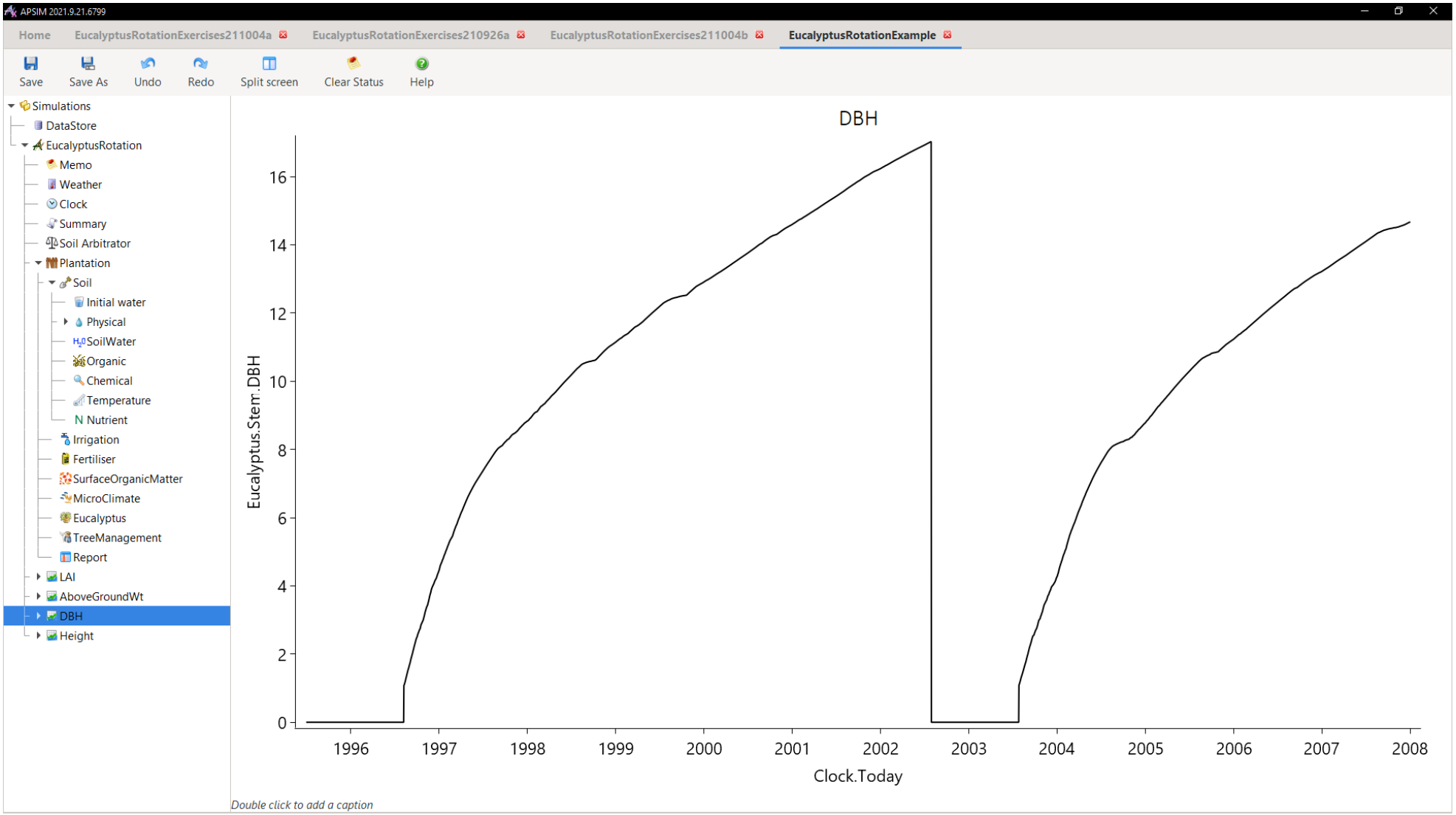
4a (continued)



5a-e.

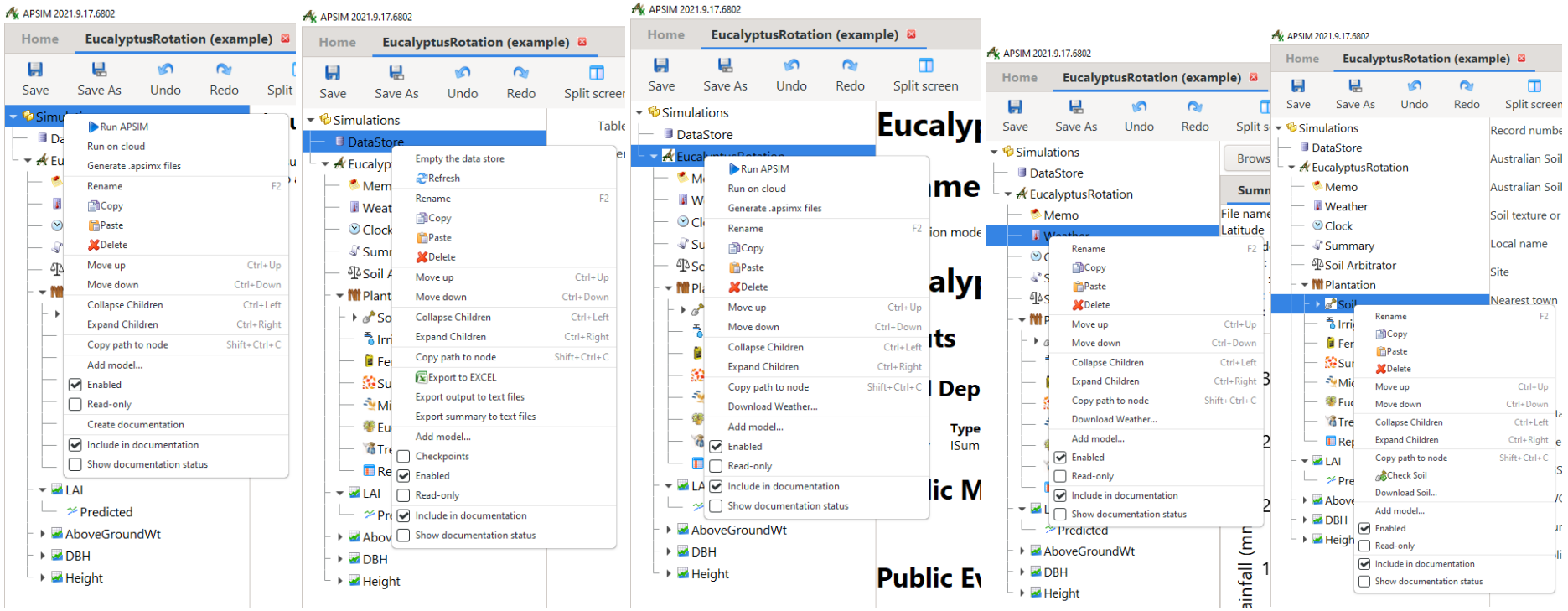

Sims
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organise
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
OneDrive - CSIRO › APSIM Training › Sims
Name
Status
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.

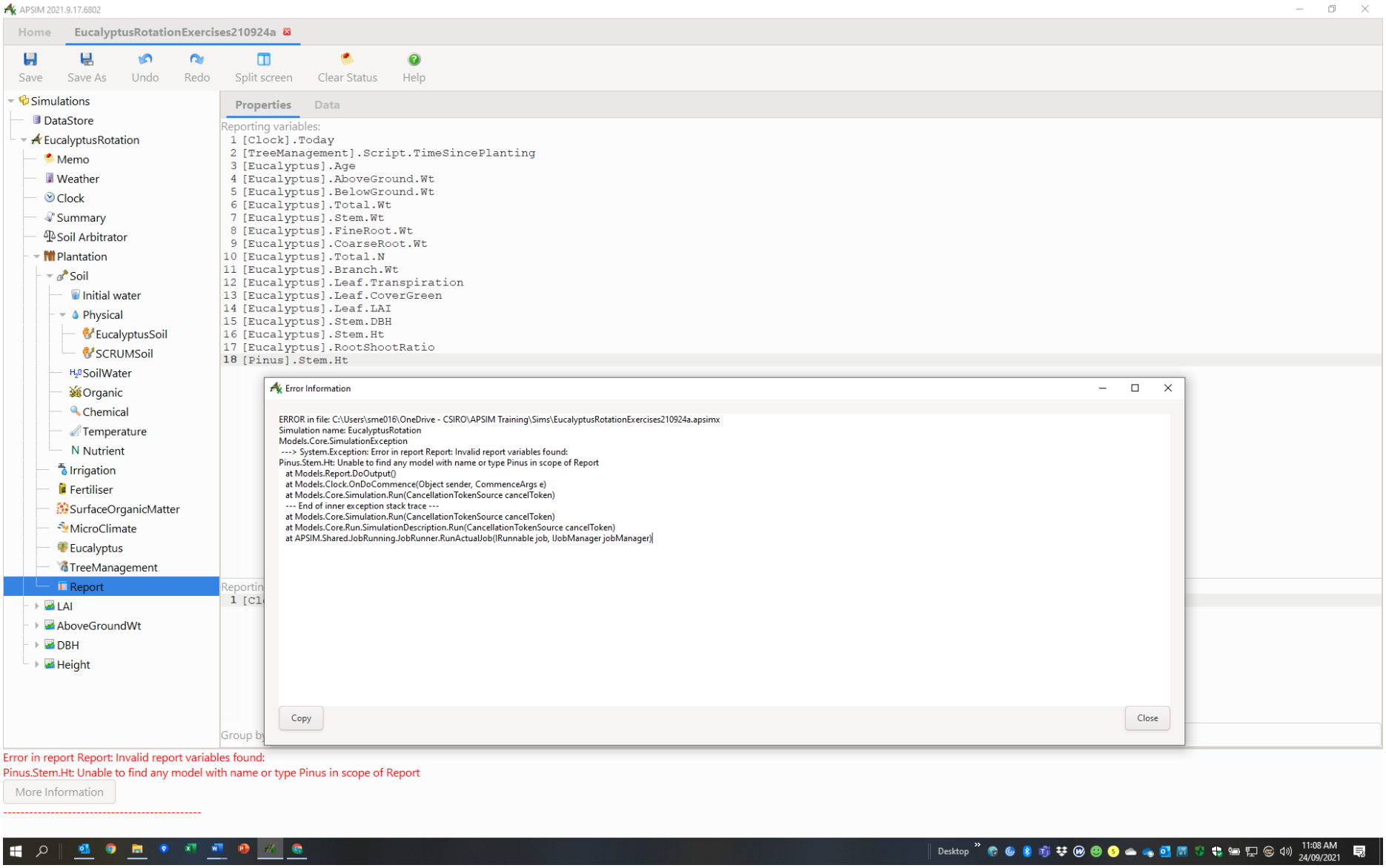


"TreeManagement" compiled successfully

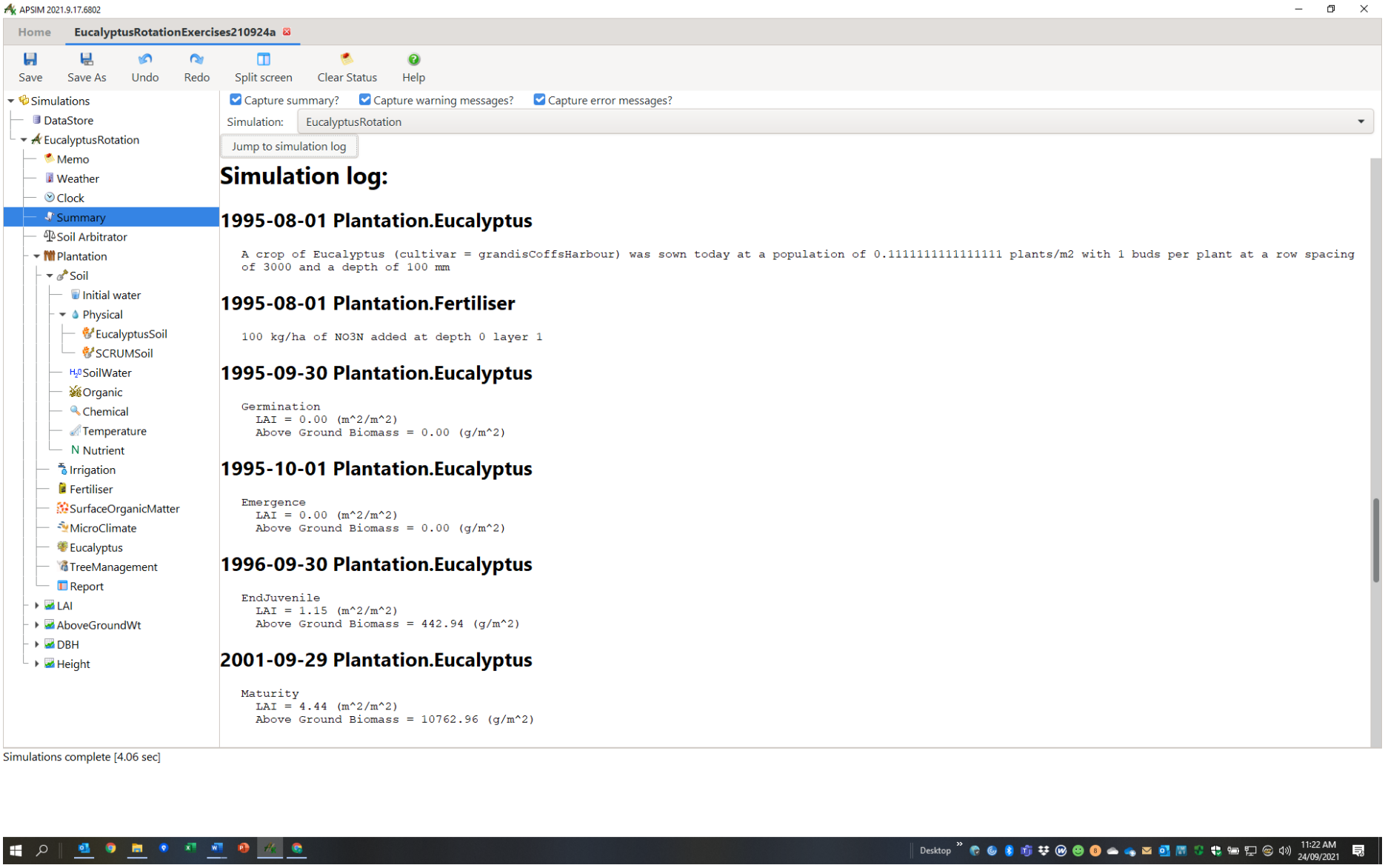
7a-b.


APSIM 2021.9.17.6802
Home
EucalyptusRotation (example)
Save
Save As
Undo
Redo
Split screen
Simulations
DataStore
EucalyptusRotation
Memo
Weather
Clock
Summary
Soil Arbitrator
Plantation
LAI
Predicted
AboveGroundWt
DBH
Height
Run APSIM
Run on cloud
Generate .apsimx files
Rename F2
Copy
Paste
Delete
Move up Ctrl+Up
Move down Ctrl+Down
Collapse Children Ctrl+Left
Expand Children Ctrl+Right
Copy path to node Shift+Ctrl+C
Add model...
Enabled
Read-only
Create documentation
Include in documentation
Show documentation status
Empty the data store
Refresh
Export to EXCEL
Export output to text files
Export summary to text files
Checkpoints
Download Weather...
Check Soil
Download Soil...
Record numbe
Australian Soil
Australian Soil
Soil texture or
Local name
Site
Nearest town

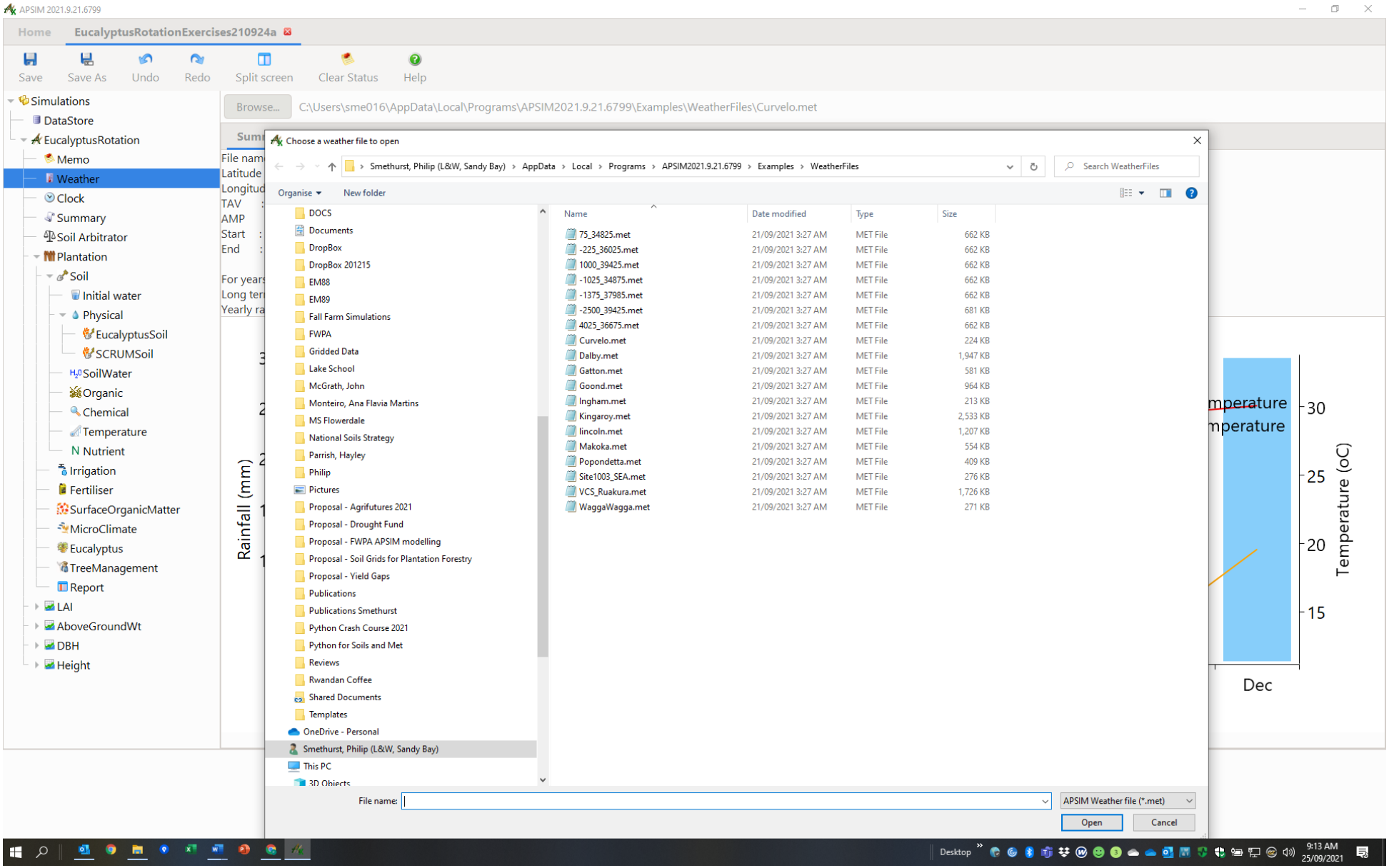
8c.


APSIM 2021.9.17.6802
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
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.


APSIM 2021.9.17.6802
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
Capture summary?
Capture warning messages?
Capture error messages?
Simulation:
EucalyptusRotation
Jump to simulation log
Simulation log:
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 NO3N added at depth 0 layer 1
1995-09-30 Plantation.Eucalyptus
Germination
LAI = 0.00 (m^2/m^2)
Above Ground Biomass = 0.00 (g/m^2)
1995-10-01 Plantation.Eucalyptus
Emergence
LAI = 0.00 (m^2/m^2)
Above Ground Biomass = 0.00 (g/m^2)
1996-09-30 Plantation.Eucalyptus
EndJuvenile
LAI = 1.15 (m^2/m^2)
Above Ground Biomass = 442.94 (g/m^2)
2001-09-29 Plantation.Eucalyptus
Maturity
LAI = 4.44 (m^2/m^2)
Above Ground Biomass = 10762.96 (g/m^2)
Simulations complete [4.06 sec]
Desktop
11:22 AM
24/09/2021

9. a-l


APSIM 2021.9.21.6799
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
Browse...
C:\Users\sme016\AppData\Local\Programs\APSIM2021.9.21.6799\Examples\WeatherFiles\Curvelo.met
Choose a weather file to open
Smethurst, Philip (L&W, Sandy Bay) › AppData › Local › Programs › APSIM2021.9.21.6799 › Examples › WeatherFiles
Search WeatherFiles
Organise
New folder
Name
Date modified
Type
Size
75_34825.met
-225_36025.met
1000_39425.met
-1025_34875.met
-1375_37985.met
-2500_39425.met
4025_36675.met
Curvelo.met
Dalby.met
Gatton.met
Goond.met
Ingham.met
Kingaroy.met
lincoln.met
Makoka.met
Popondetta.met
Site1003_SEA.met
VCS_Ruakura.met
WaggaWagga.met
21/09/2021 3:27 AM
MET File
662 KB
224 KB
1,947 KB
581 KB
964 KB
213 KB
2,533 KB
1,207 KB
554 KB
409 KB
276 KB
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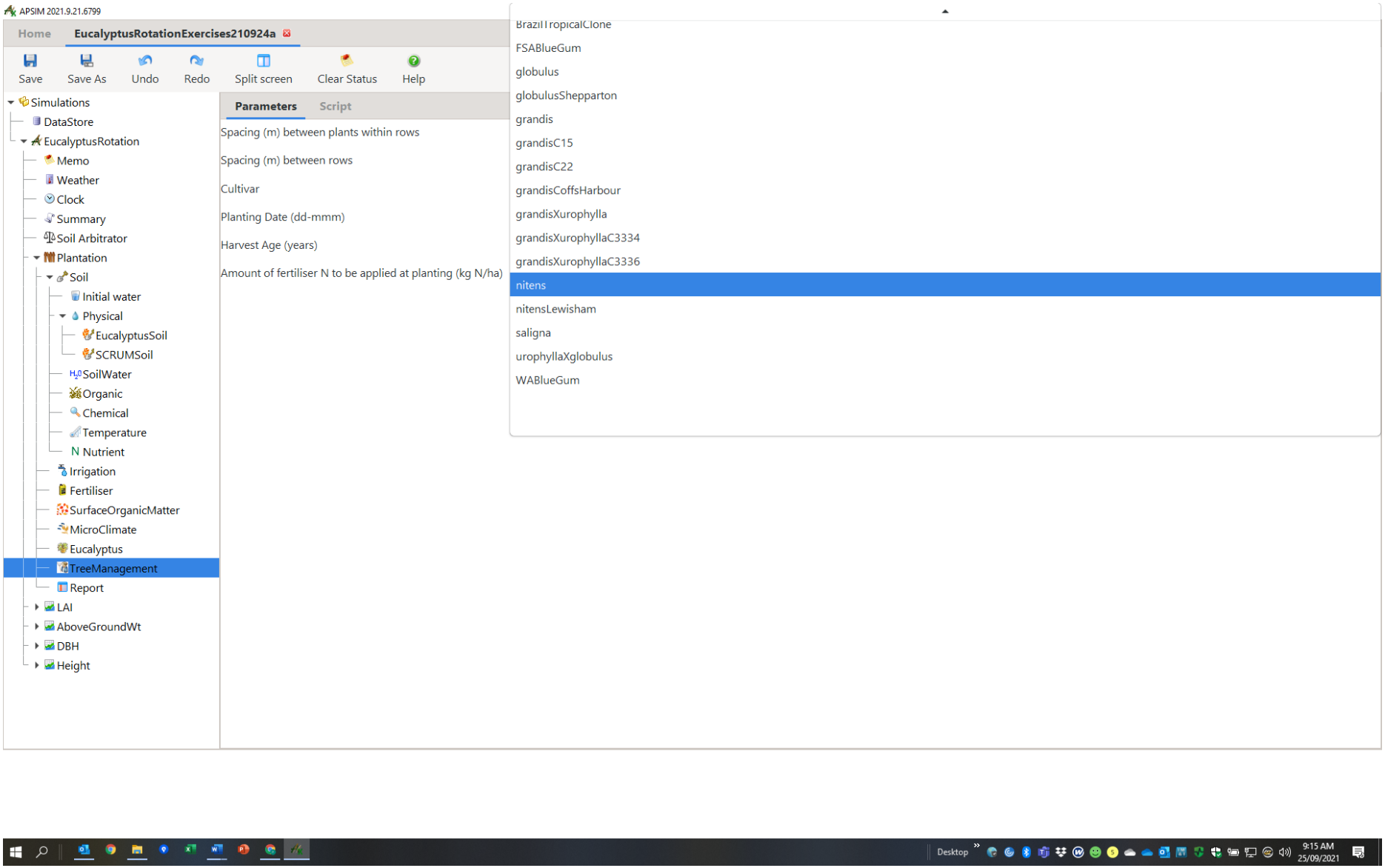
271 KB
DOCS
Documents
DropBox
DropBox 201215
EM88
EM89
Fall Farm Simulations
FWPA
Gridded Data
Lake School
McGrath, John
Monteiro, Ana Flavia Martins
MS Flowerdale
National Soils Strategy
Parrish, Hayley
Philip
Pictures
Proposal - Agrifutures 2021
Proposal - Drought Fund
Proposal - FWPA APSIM modelling
Proposal - Soil Grids for Plantation Forestry
Proposal - Yield Gaps
Publications
Publications Smethurst
Python Crash Course 2021
Python for Soils and Met
Reviews
Rwandan Coffee
Shared Documents
Templates
OneDrive - Personal
Smethurst, Philip (L&W, Sandy Bay)
This PC
3D Objects
File name:
APSIM Weather file (*.met)
Open
Cancel
Rainfall (mm)
Temperature (oC)
30
25
20
15
Dec
Desktop
9:13 AM
25/09/2021


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210924a
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Simulations
DataStore
EucalyptusRotation
Memo
Weather
Clock
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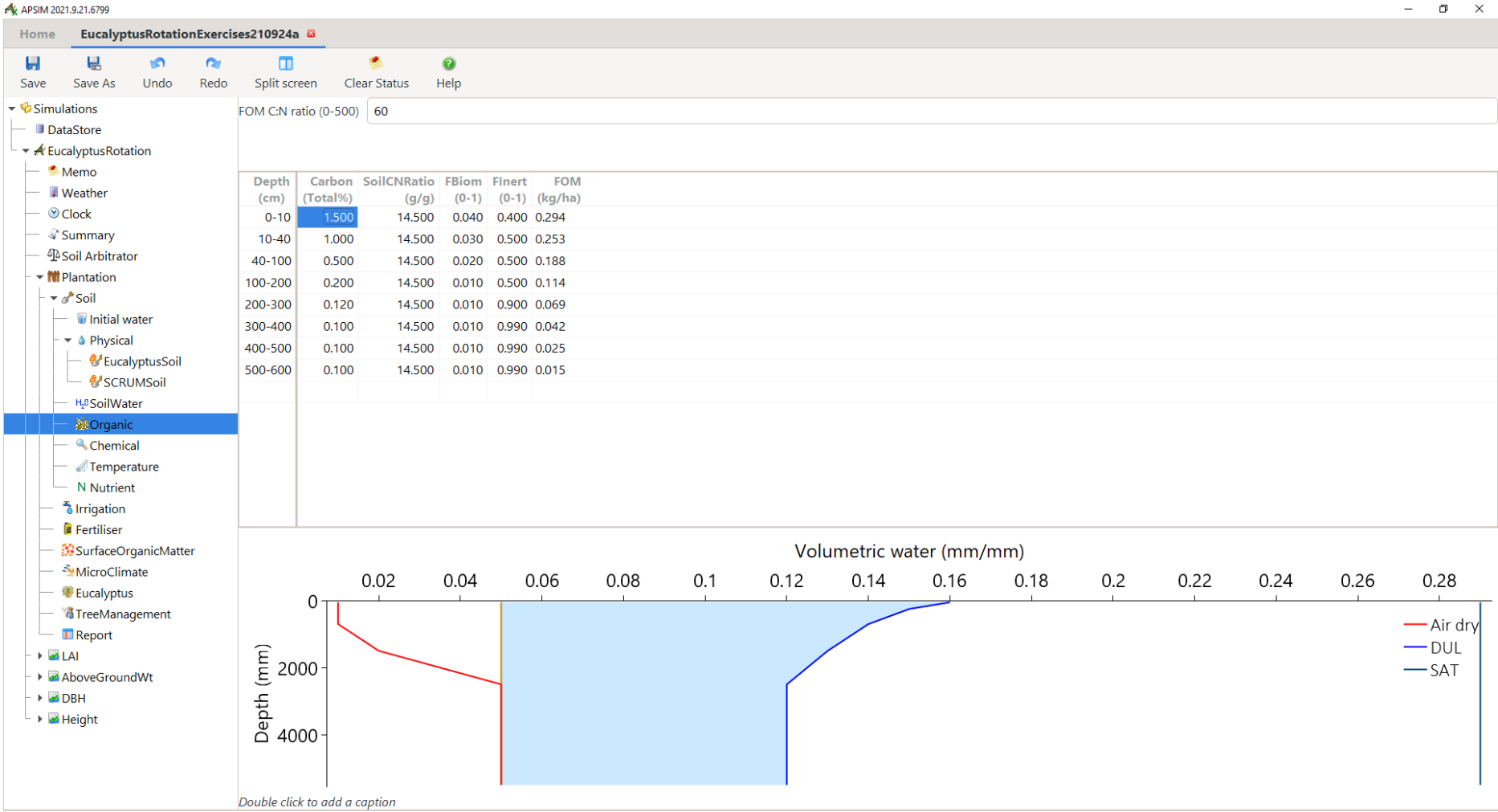
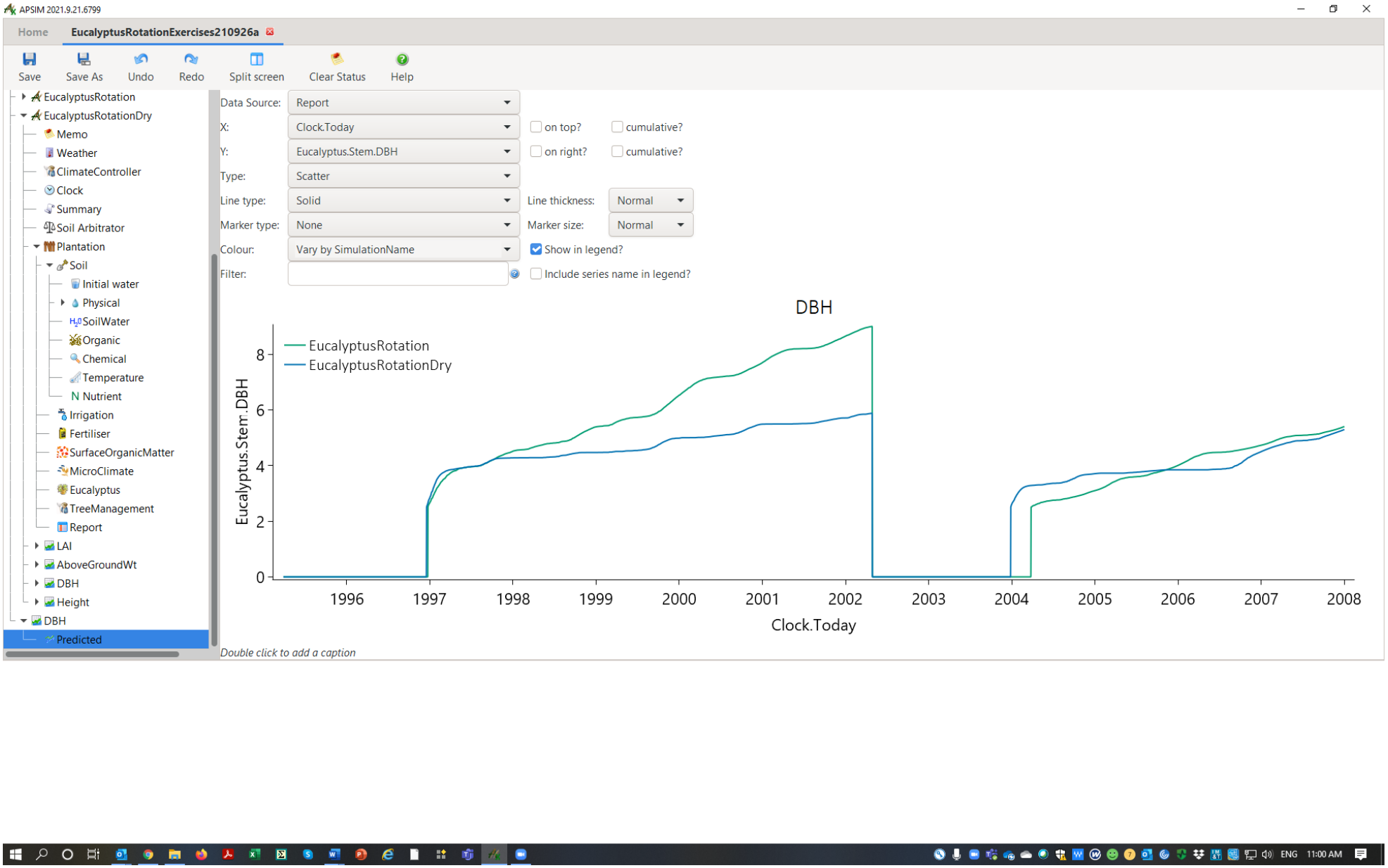
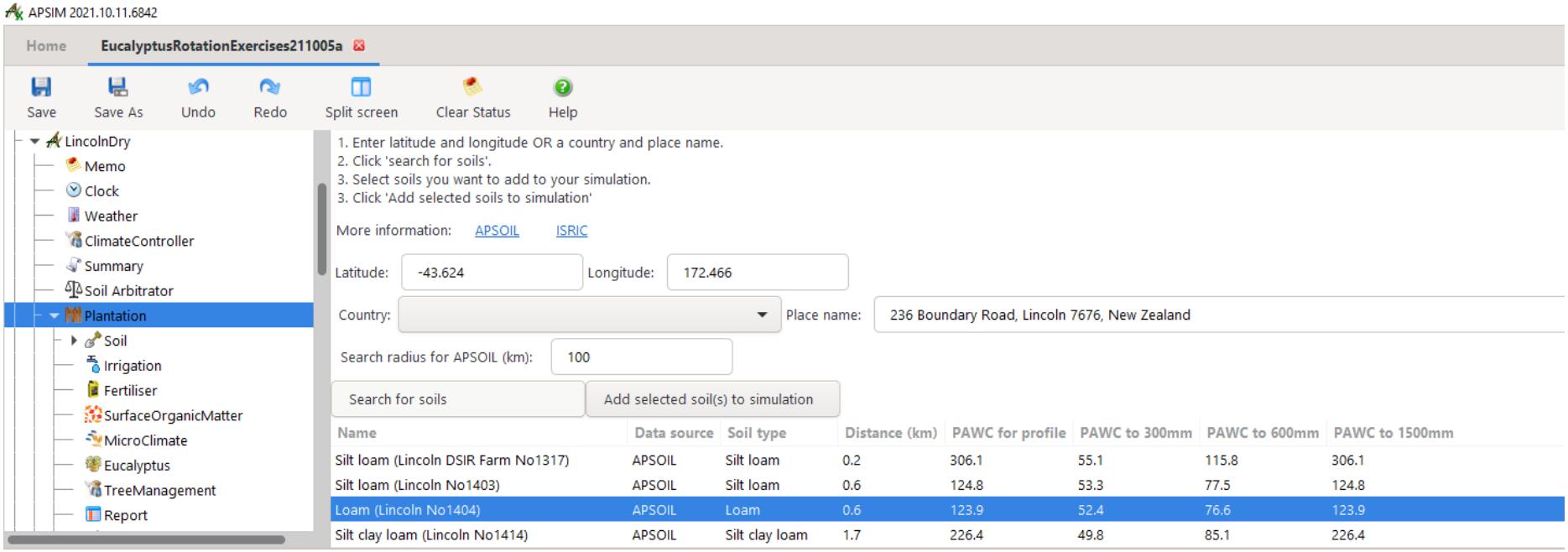
Soil Arbitrator
Plantation
Soil
Initial water
Physical
EucalyptusSoil
SCRUMSoil
SoilWater
Organic
Chemical
Temperature
Nutrient
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
LAI
AboveGroundWt
DBH
Height
Parameters
Script
Spacing (m) between plants within rows
Spacing (m) between rows
Cultivar
Planting Date (dd-mmm)
Harvest Age (years)
Amount of fertiliser N to be applied at planting (kg N/ha)
BrazilTropicalClone
FSABlueGum
globulus
globulusShepparton
grandis
grandisC15
grandisC22
grandisCoffsHarbour
grandisXurophylla
grandisXurophyllaC3334
grandisXurophyllaC3336
nitens
nitensLewisham
saligna
urophyllaXglobulus
WABlueGum
Desktop
9:15 AM
25/09/2021


APSIM 2021.9.21.6799
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
FOM C:N ratio (0-500)
60
Depth (cm)
Carbon (Total%)
SoilCNRatio (g/g)
FBiom (0-1)
FInert (0-1)
FOM (kg/ha)
0-10 1.500 14.500 0.040 0.400 0.294
10-40 1.000 14.500 0.030 0.500 0.253
40-100 0.500 14.500 0.020 0.500 0.188
100-200 0.200 14.500 0.010 0.500 0.114
200-300 0.120 14.500 0.010 0.900 0.069
300-400 0.100 14.500 0.010 0.990 0.042
400-500 0.100 14.500 0.010 0.990 0.025
500-600 0.100 14.500 0.010 0.990 0.015
Volumetric water (mm/mm)
0.02 0.04 0.06 0.08 0.1 0.12 0.14 0.16 0.18 0.2 0.22 0.24 0.26 0.28
0
2000
4000
Depth (mm)
Air dry
DUL
SAT
Double click to add a caption
"TreeManagement" compiled successfully
Desktop
9:18 AM
25/09/2021

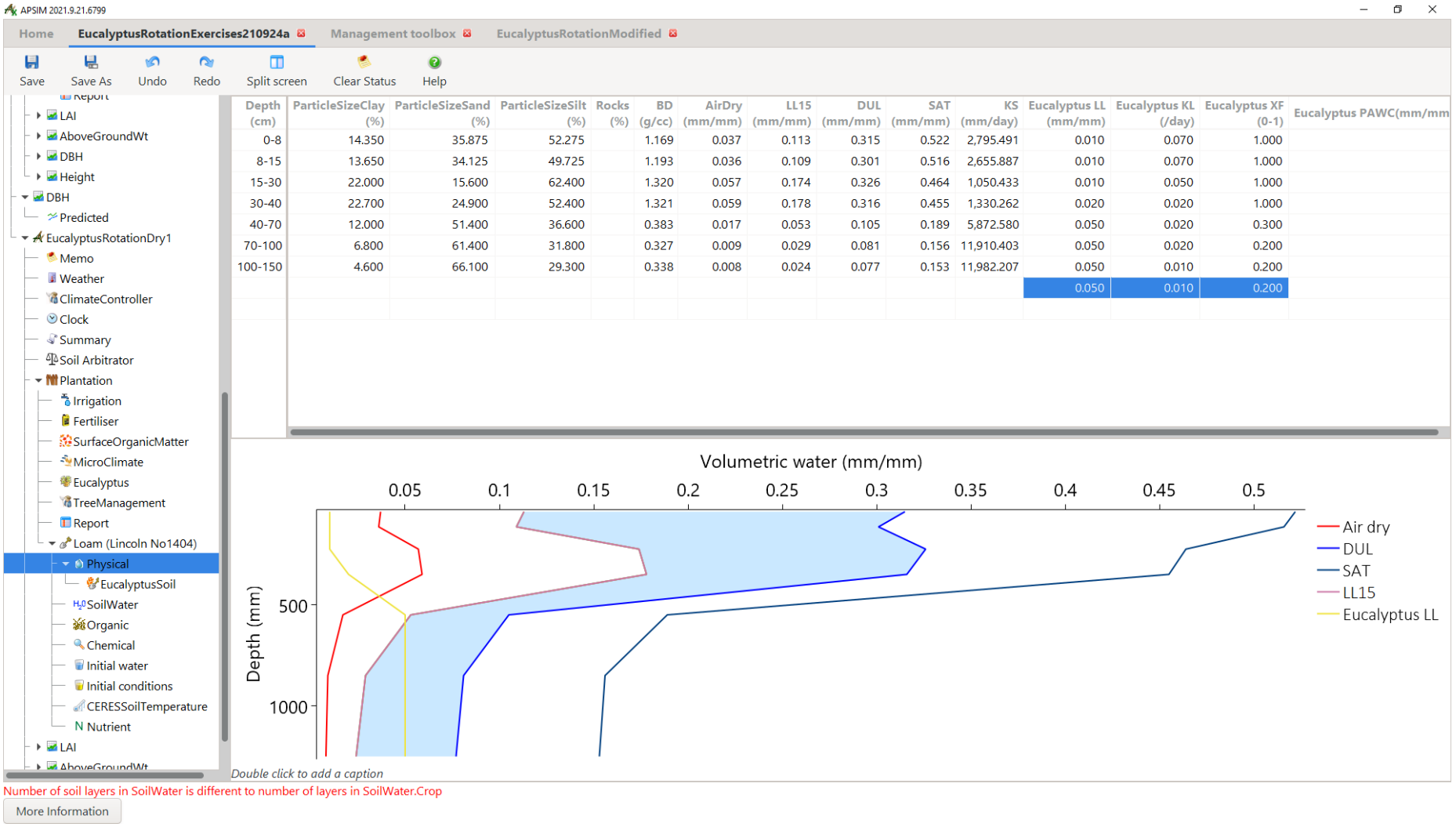
9. m-q


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210926a
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
EucalyptusRotation
EucalyptusRotationDry
Memo
Weather
ClimateController
Clock
Summary
Soil Arbitrator
Plantation
Soil
Initial water
Physical
SoilWater
Organic
Chemical
Temperature
Nutrient
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
LAI
AboveGroundWt
DBH
Height
DBH
Predicted
Data Source: Report
X: Clock.Today
on top?
cumulative?
Y: Eucalyptus.Stem.DBH
on right?
cumulative?
Type: Scatter
Line type: Solid
Line thickness: Normal
Marker type: None
Marker size: Normal
Colour: Vary by SimulationName
Show in legend?
Filter:
Include series name in legend?
DBH
EucalyptusRotation
EucalyptusRotationDry
Eucalyptus.Stem.DBH
0
2
4
6
8
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
Clock.Today
Double click to add a caption
ENG
11:00 AM

10e.

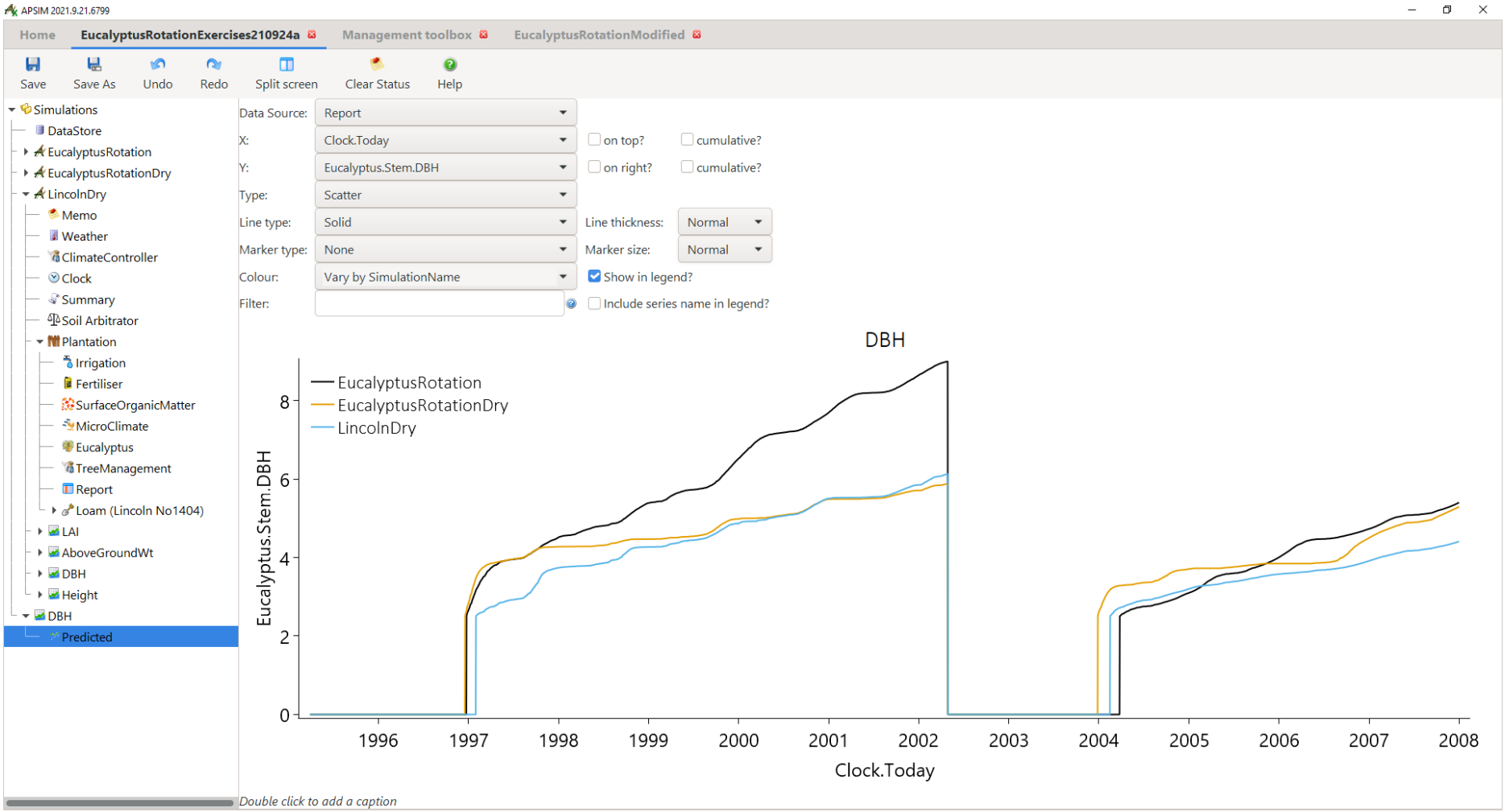

APSIM 2021.10.11.6842
Home
EucalyptusRotationExercises211005a
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
LincolnDry
Memo
Clock
Weather
ClimateController
Summary
Soil Arbitrator
Plantation
Soil
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
1. Enter 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: -43.624
Longitude: 172.466
Country:
Place name: 236 Boundary Road, Lincoln 7676, New Zealand
Search radius for APSOIL (km): 100
Search for soils
Add selected soil(s) to simulation
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

10i.

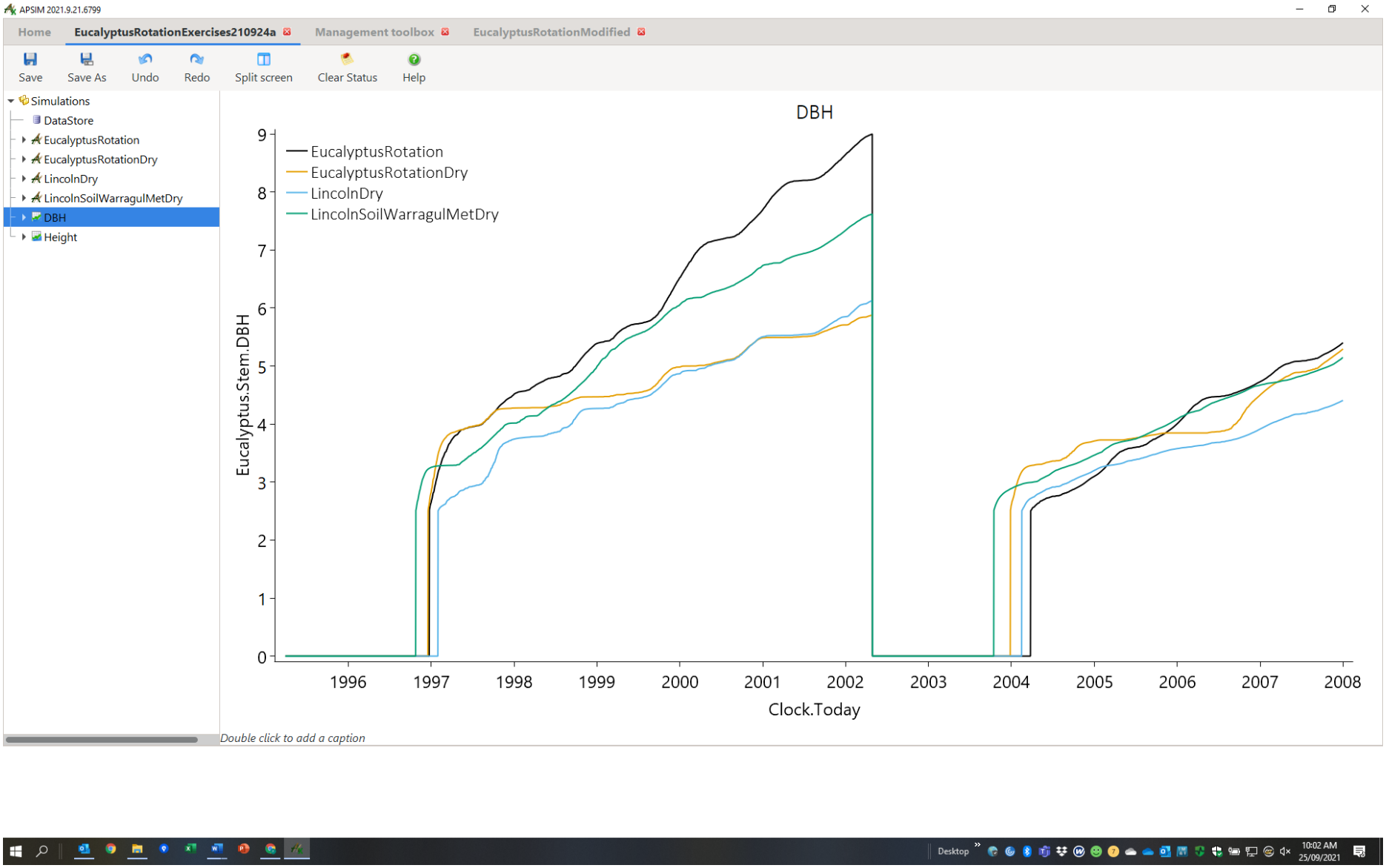

APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210924a
Management toolbox
EucalyptusRotationModified
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
LAI
AboveGroundWt
DBH
Height
DBH
Predicted
EucalyptusRotationDry1
Memo
Weather
ClimateController
Clock
Summary
Soil Arbitrator
Plantation
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
Loam (Lincoln No1404)
Physical
EucalyptusSoil
SoilWater
Organic
Chemical
Initial water
Initial conditions
CERESSoilTemperature
Nutrient
LAI
Depth (cm) | ParticleSizeClay (%) | ParticleSizeSand (%) | ParticleSizeSilt (%) | Rocks (%) | BD (g/cc) | AirDry (mm/mm) | LL15 (mm/mm) | DUL (mm/mm) | SAT (mm/mm) | KS (mm/day) | Eucalyptus LL (mm/mm) | Eucalyptus KL (/day) | Eucalyptus XF (0-1) | Eucalyptus PAWC(mm/mm
0-8 | 14.350 | 35.875 | 52.275 | | 1.169 | 0.037 | 0.113 | 0.315 | 0.522 | 2,795.491 | 0.010 | 0.070 | 1.000
8-15 | 13.650 | 34.125 | 49.725 | | 1.193 | 0.036 | 0.109 | 0.301 | 0.516 | 2,655.887 | 0.010 | 0.070 | 1.000
15-30 | 22.000 | 15.600 | 62.400 | | 1.320 | 0.057 | 0.174 | 0.326 | 0.464 | 1,050.433 | 0.010 | 0.050 | 1.000
30-40 | 22.700 | 24.900 | 52.400 | | 1.321 | 0.059 | 0.178 | 0.316 | 0.455 | 1,330.262 | 0.020 | 0.020 | 1.000
40-70 | 12.000 | 51.400 | 36.600 | | 0.383 | 0.017 | 0.053 | 0.105 | 0.189 | 5,872.580 | 0.050 | 0.020 | 0.300
70-100 | 6.800 | 61.400 | 31.800 | | 0.327 | 0.009 | 0.029 | 0.081 | 0.156 | 11,910.403 | 0.050 | 0.020 | 0.200
100-150 | 4.600 | 66.100 | 29.300 | | 0.338 | 0.008 | 0.024 | 0.077 | 0.153 | 11,982.207 | 0.050 | 0.010 | 0.200
0.050 | 0.010 | 0.200
Volumetric water (mm/mm)
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
Depth (mm)
500
1000
Air dry
DUL
SAT
LL15
Eucalyptus LL
Double click to add a caption
Number of soil layers in SoilWater is different to number of layers in SoilWater.Crop
More Information

ocks (%)	BD (g/cc)	AirDry (mm/mm)	LL15 (mm/mm)	DUL (mm/mm)	SAT (mm/mm)	KS (mm/day)	Eucalyptus LL (mm/mm)	Eucalyptus KL (/day)	Eucalyptus XF (0-1)	Eucalyptus PAWC 525.00 (mm/mm)
	1.500	0.010	0.050	0.160	0.290		0.010	0.070	1.000	0.150
	1.600	0.010	0.050	0.150	0.290		0.010	0.070	1.000	0.140
	1.680	0.010	0.050	0.140	0.290		0.010	0.050	1.000	0.130
	1.750	0.020	0.050	0.130	0.290		0.020	0.020	1.000	0.110
	1.700	0.050	0.050	0.120	0.290		0.050	0.020	0.300	0.070
	1.700	0.050	0.050	0.120	0.290		0.050	0.020	0.200	0.070
	1.700	0.050	0.050	0.120	0.290		0.050	0.010	0.200	0.070
	1.700	0.050	0.050	0.120	0.290		0.050	0.010	0.200	0.070

10n.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210924a
Management toolbox
EucalyptusRotationModified
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Simulations
DataStore
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
Memo
Weather
ClimateController
Clock
Summary
Soil Arbitrator
Plantation
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
Loam (Lincoln No1404)
LAI
AboveGroundWt
DBH
Height
DBH
Predicted
Data Source: Report
X: Clock.Today
Y: Eucalyptus.Stem.DBH
Type: Scatter
Line type: Solid
Marker type: None
Colour: Vary by SimulationName
Filter:
on top?
cumulative?
on right?
cumulative?
Line thickness: Normal
Marker size: Normal
Show in legend?
Include series name in legend?
DBH
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
Eucalyptus.Stem.DBH
Clock.Today
0
2
4
6
8
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
Double click to add a caption

11f.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210924a
Management toolbox
EucalyptusRotationModified
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Simulations
DataStore
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
DBH
Height
DBH
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
Eucalyptus.Stem.DBH
0
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1996
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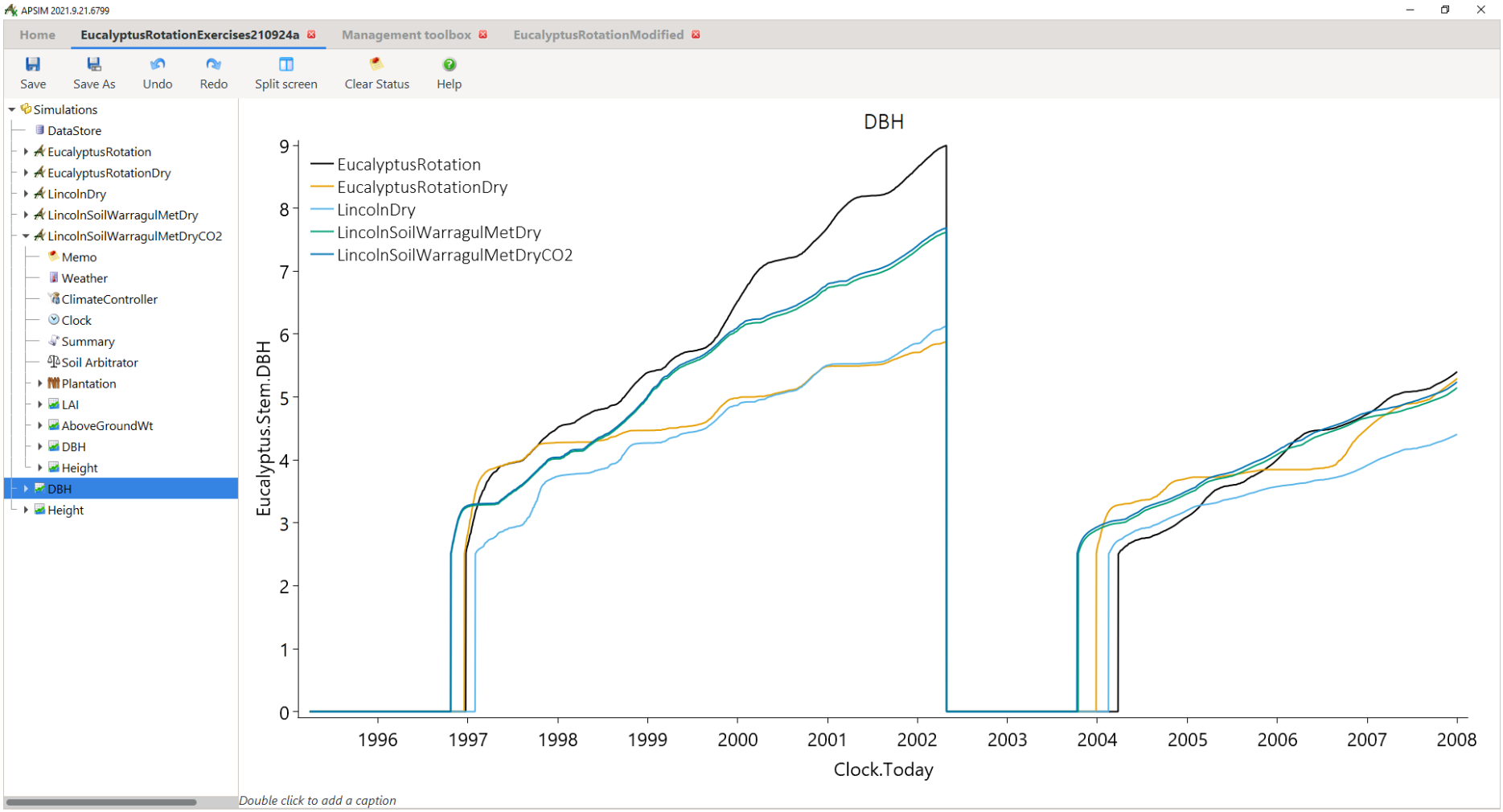
2005
2006
2007
2008
Clock.Today
Double click to add a caption
Desktop
10:02 AM
25/09/2021

12d.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210924a
Management toolbox
EucalyptusRotationModified
Save
Save As
Undo
Redo
Split screen
Clear Status
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EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
Memo
Weather
ClimateController
Clock
Summary
Soil Arbitrator
Plantation
LAI
AboveGroundWt
DBH
Height
DBH
Height
DBH
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
Eucalyptus.Stem.DBH
Clock.Today
0
1
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8
9
1996
1997
1998
1999
2000
2001
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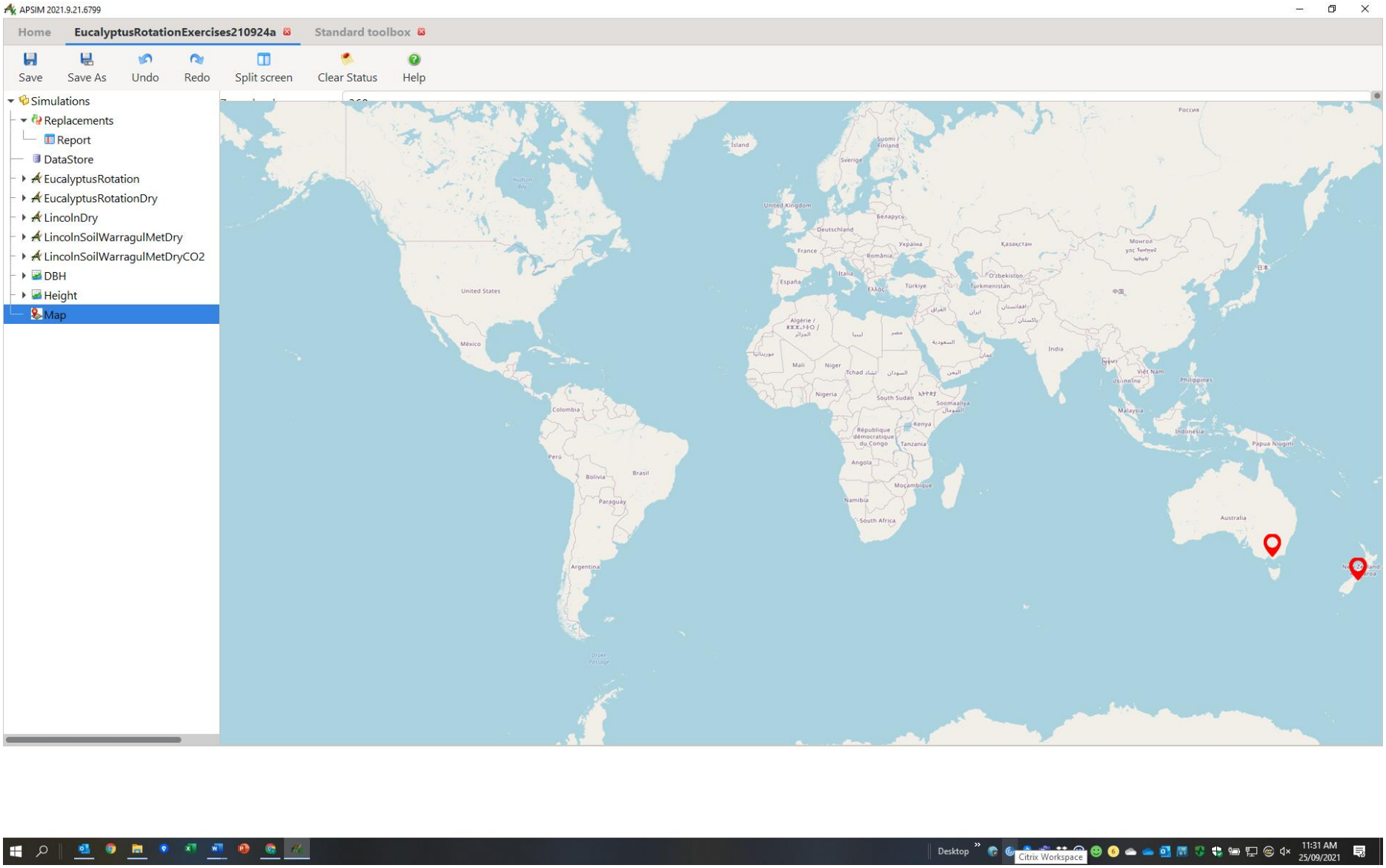
2003
2004
2005
2006
2007
2008
Double click to add a caption
Desktop
11:10 AM
25/09/2021

13d.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210924a
Standard toolbox
Save
Save As
Undo
Redo
Split screen
Clear Status
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Simulations
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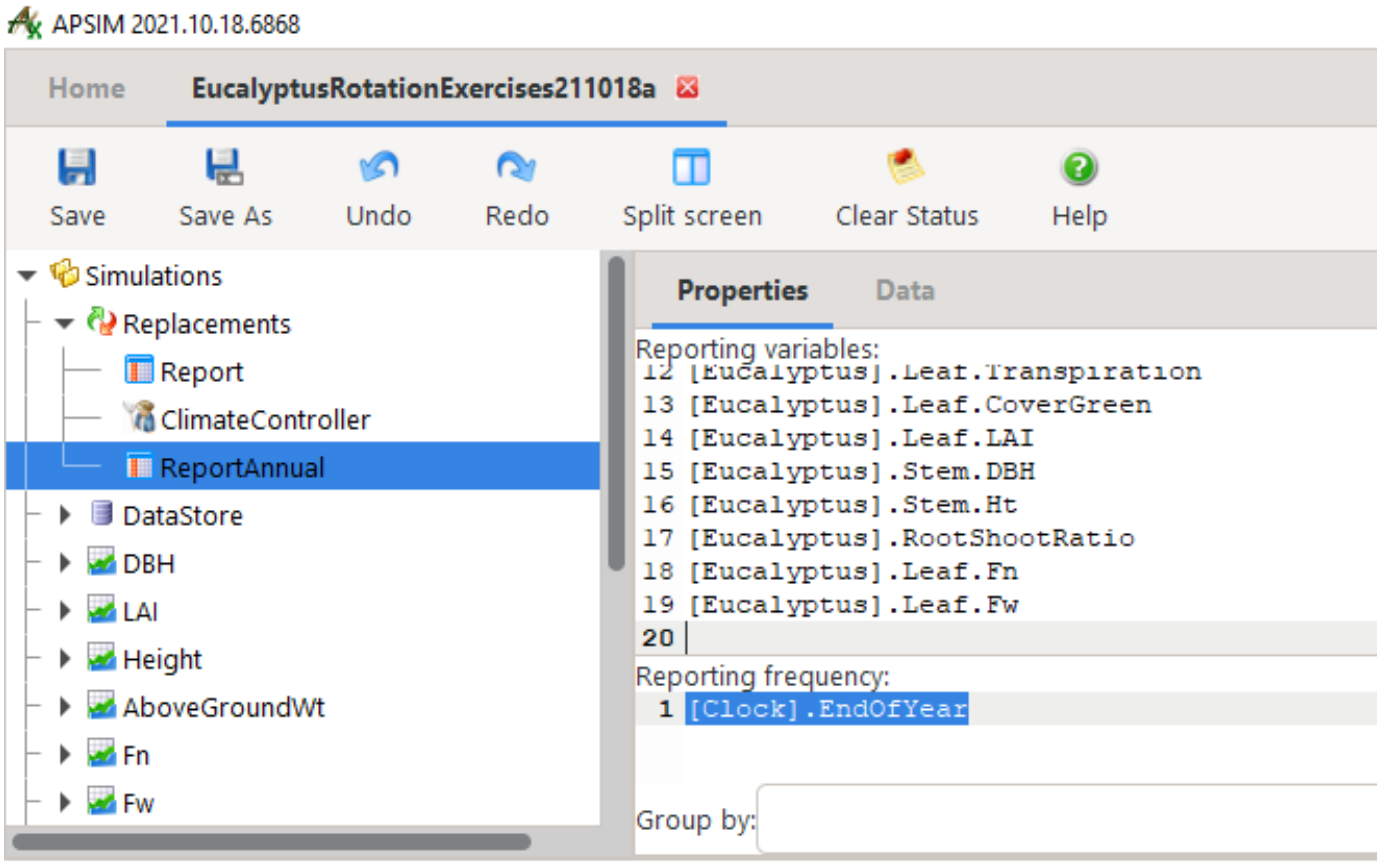
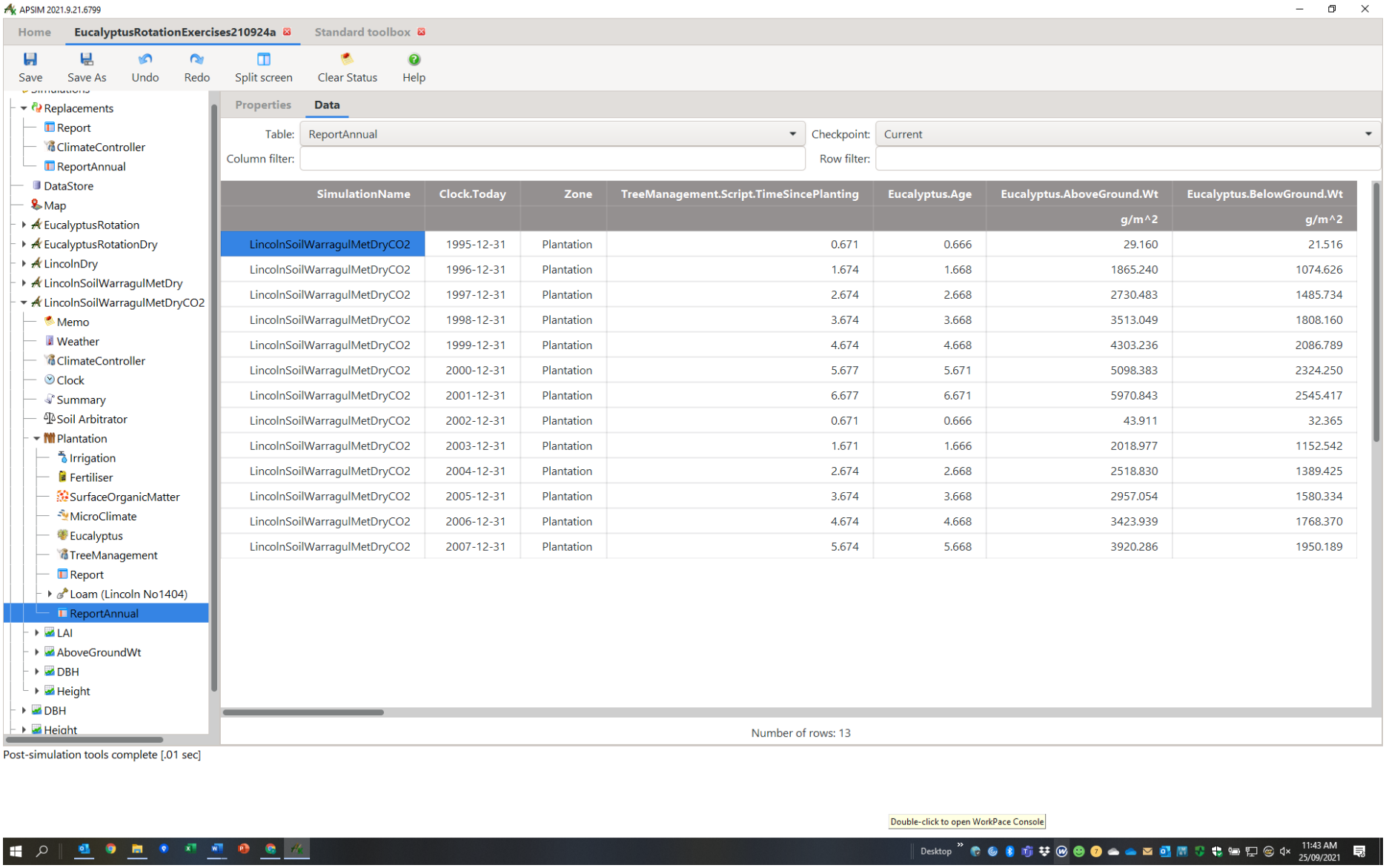
Report
DataStore
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
DBH
Height
Map
Citrix Workspace
11:31 AM
25/09/2021

14n.

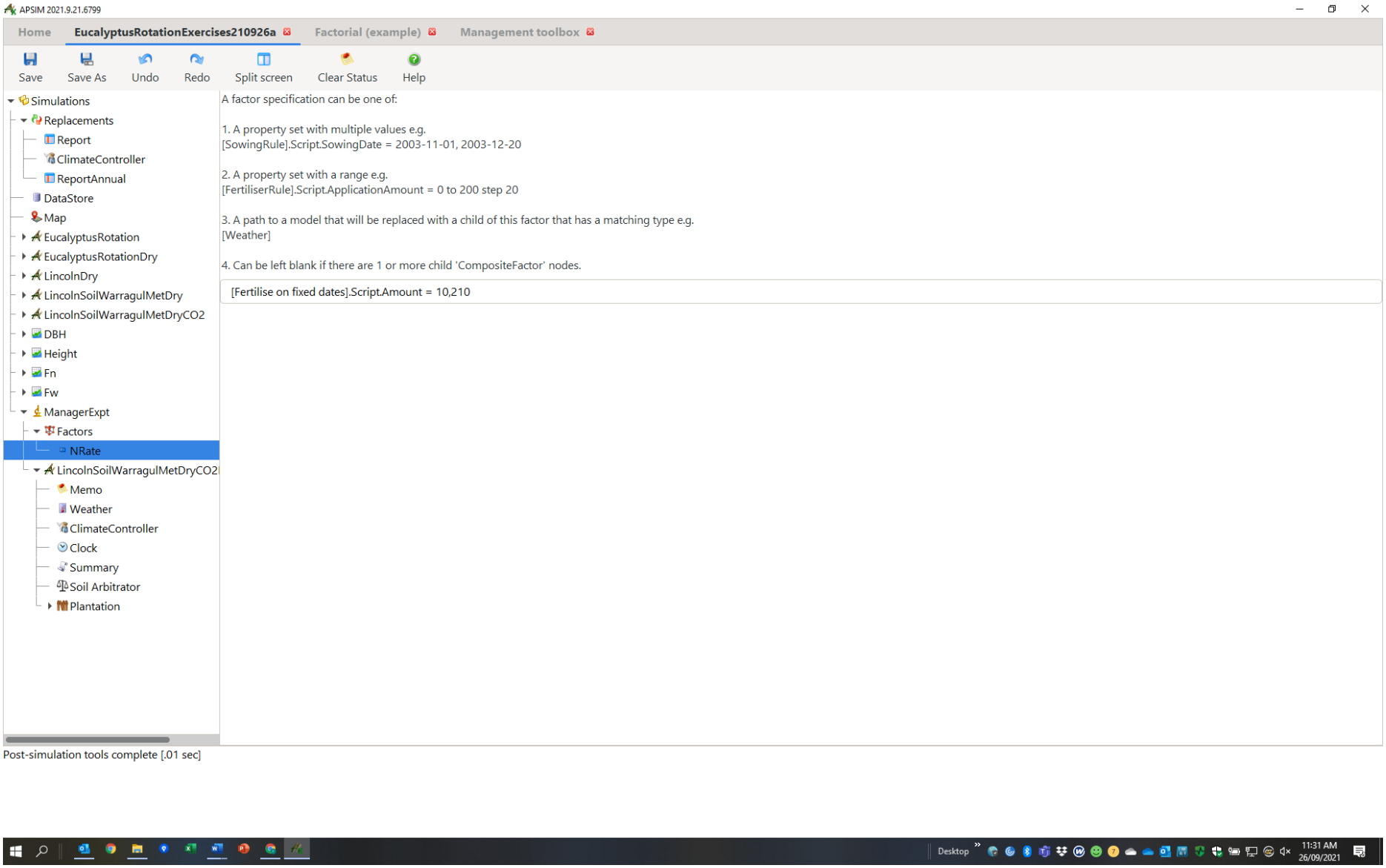


"ClimateController" compiled successfully

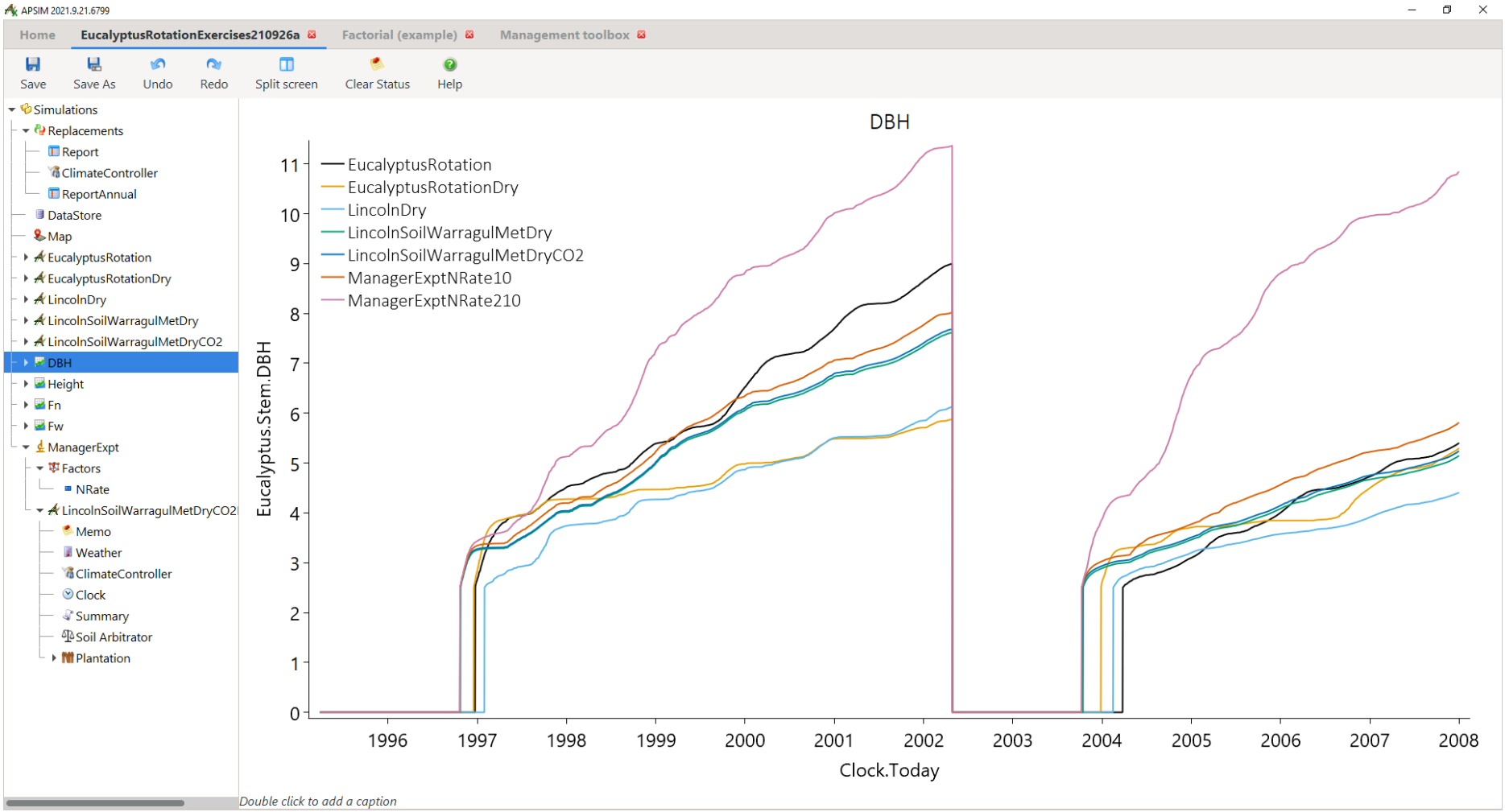
14p.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210924a
Standard toolbox
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Replacements
Report
ClimateController
ReportAnnual
DataStore
Map
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
Memo
Weather
ClimateController
Clock
Summary
Soil Arbitrator
Plantation
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
Loam (Lincoln No1404)
ReportAnnual
LAI
AboveGroundWt
DBH
Height
DBH
Height
Properties
Data
Table: ReportAnnual
Checkpoint: Current
Column filter:
Row filter:
SimulationName | Clock.Today | Zone | TreeManagement.Script.TimeSincePlanting | Eucalyptus.Age | Eucalyptus.AboveGround.Wt | Eucalyptus.BelowGround.Wt
g/m^2 | g/m^2
LincolnSoilWarragulMetDryCO2 | 1995-12-31 | Plantation | 0.671 | 0.666 | 29.160 | 21.516
LincolnSoilWarragulMetDryCO2 | 1996-12-31 | Plantation | 1.674 | 1.668 | 1865.240 | 1074.626
LincolnSoilWarragulMetDryCO2 | 1997-12-31 | Plantation | 2.674 | 2.668 | 2730.483 | 1485.734
LincolnSoilWarragulMetDryCO2 | 1998-12-31 | Plantation | 3.674 | 3.668 | 3513.049 | 1808.160
LincolnSoilWarragulMetDryCO2 | 1999-12-31 | Plantation | 4.674 | 4.668 | 4303.236 | 2086.789
LincolnSoilWarragulMetDryCO2 | 2000-12-31 | Plantation | 5.677 | 5.671 | 5098.383 | 2324.250
LincolnSoilWarragulMetDryCO2 | 2001-12-31 | Plantation | 6.677 | 6.671 | 5970.843 | 2545.417
LincolnSoilWarragulMetDryCO2 | 2002-12-31 | Plantation | 0.671 | 0.666 | 43.911 | 32.365
LincolnSoilWarragulMetDryCO2 | 2003-12-31 | Plantation | 1.671 | 1.666 | 2018.977 | 1152.542
LincolnSoilWarragulMetDryCO2 | 2004-12-31 | Plantation | 2.674 | 2.668 | 2518.830 | 1389.425
LincolnSoilWarragulMetDryCO2 | 2005-12-31 | Plantation | 3.674 | 3.668 | 2957.054 | 1580.334
LincolnSoilWarragulMetDryCO2 | 2006-12-31 | Plantation | 4.674 | 4.668 | 3423.939 | 1768.370
LincolnSoilWarragulMetDryCO2 | 2007-12-31 | Plantation | 5.674 | 5.668 | 3920.286 | 1950.189
Number of rows: 13
Post-simulation tools complete [.01 sec]
Double-click to open WorkPace Console
Desktop
11:43 AM
25/09/2021

15h.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210926a
Factorial (example)
Management toolbox
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Simulations
Replacements
Report
ClimateController
ReportAnnual
DataStore
Map
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
DBH
Height
Fn
Fw
ManagerExpt
Factors
NRate
LincolnSoilWarragulMetDryCO2
Memo
Weather
ClimateController
Clock
Summary
Soil Arbitrator
Plantation
A factor specification can be one of:
1. A property set with multiple values e.g.
[SowingRule].Script.SowingDate = 2003-11-01, 2003-12-20
2. A property set with a range e.g.
[FertiliserRule].Script.ApplicationAmount = 0 to 200 step 20
3. A path to a model that will be replaced with a child of this factor that has a matching type e.g.
[Weather]
4. Can be left blank if there are 1 or more child 'CompositeFactor' nodes.
[Fertilise on fixed dates].Script.Amount = 10,210
Post-simulation tools complete [.01 sec]
Desktop
11:31 AM
26/09/2021

15p.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210926a
Factorial (example)
Management toolbox
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
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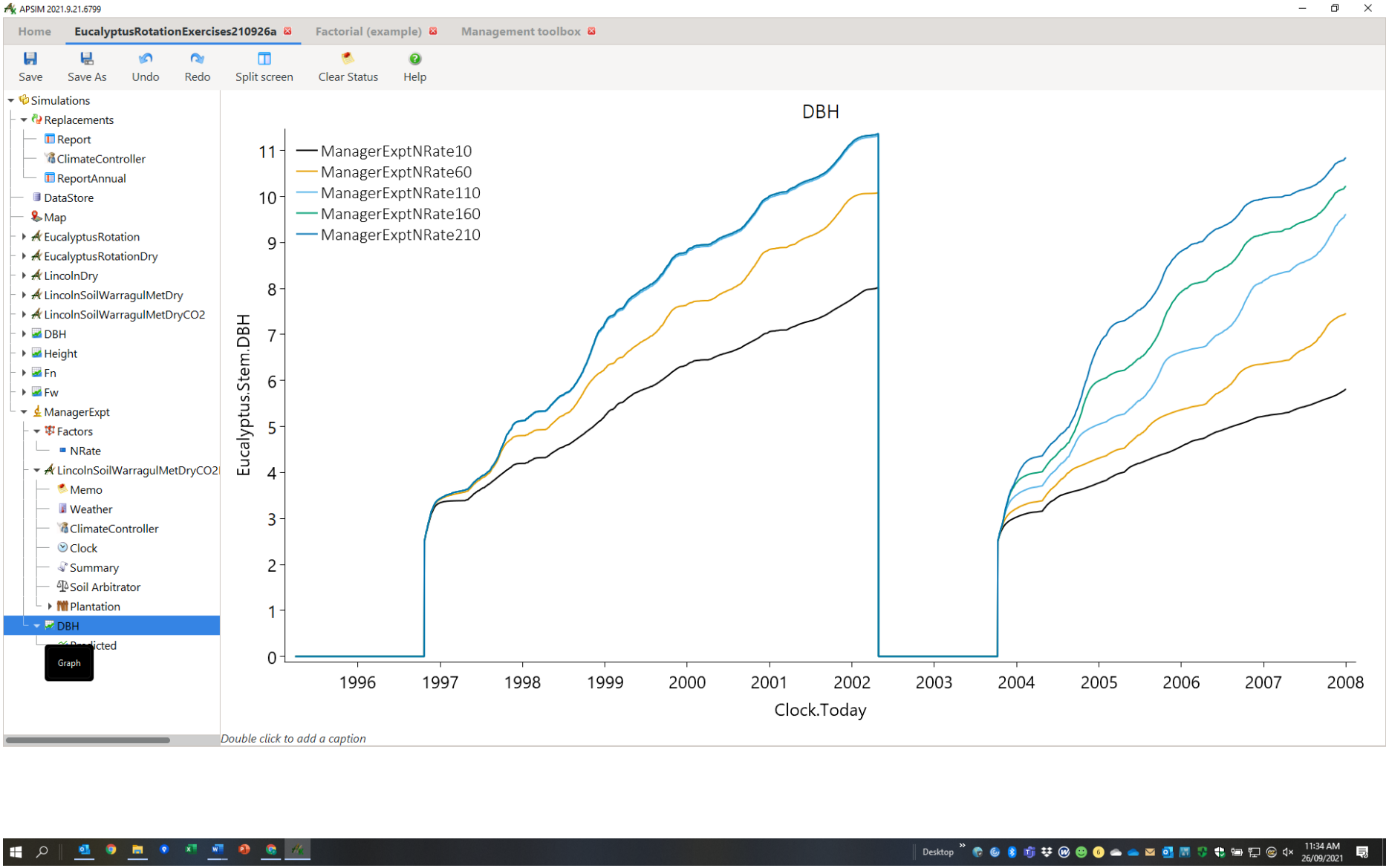
Replacements
Report
ClimateController
ReportAnnual
DataStore
Map
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
DBH
Height
Fn
Fw
ManagerExpt
Factors
NRate
LincolnSoilWarragulMetDryCO2
Memo
Weather
ClimateController
Clock
Summary
Soil Arbitrator
Plantation
DBH
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
ManagerExptNRate10
ManagerExptNRate210
Eucalyptus.Stem.DBH
Clock.Today
Double click to add a caption
Post-simulation tools complete [.01 sec]


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210926a
Factorial (example)
Management toolbox
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Simulations
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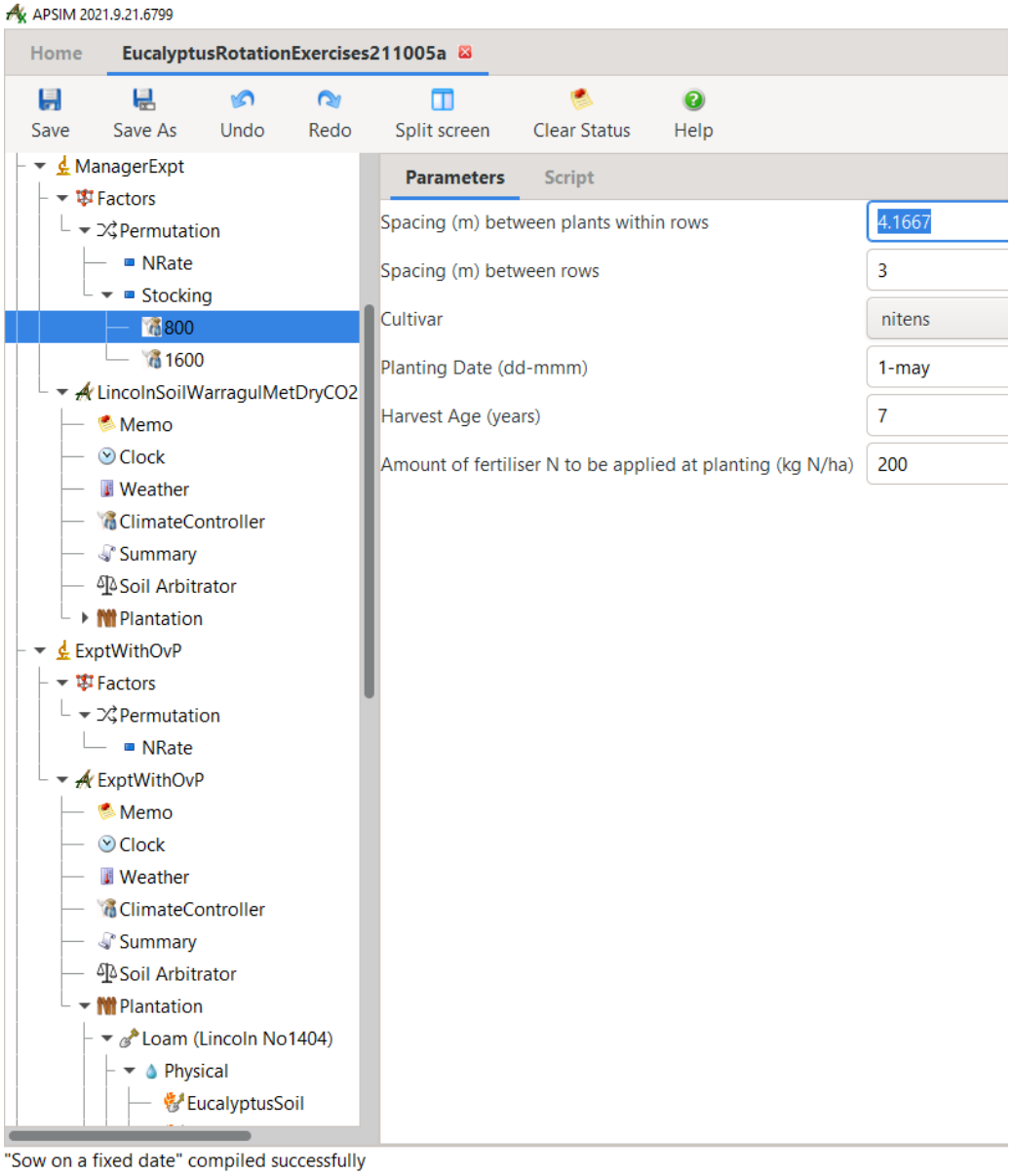
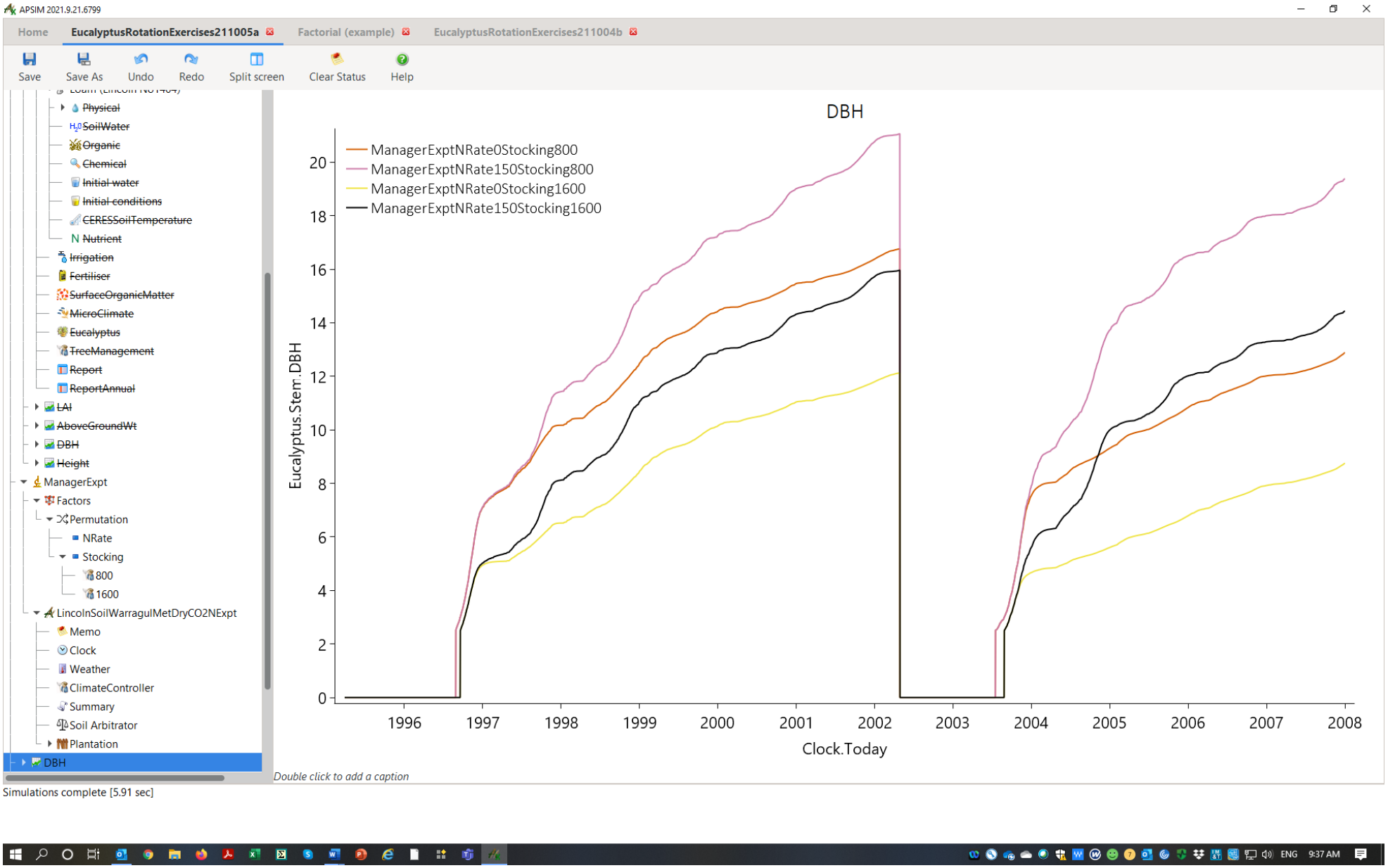
Report
ClimateController
ReportAnnual
DataStore
Map
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
DBH
Height
Fn
Fw
ManagerExpt
Factors
NRate
Memo
Weather
ClimateController
Clock
Summary
Soil Arbitrator
Plantation
DBH
Graph
DBH
ManagerExptNRate10
ManagerExptNRate60
ManagerExptNRate110
ManagerExptNRate160
ManagerExptNRate210
Eucalyptus.Stem.DBH
Clock.Today
Double click to add a caption

15q.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
ManagerExpt
Factors
Permutation
NRate
Stocking
800
1600
LincolnSoilWarragulMetDryCO2
Memo
Clock
Weather
ClimateController
Summary
Soil Arbitrator
Plantation
ExptWithOvP
Factors
Permutation
NRate
ExptWithOvP
Memo
Clock
Weather
ClimateController
Summary
Soil Arbitrator
Plantation
Loam (Lincoln No1404)
Physical
EucalyptusSoil
Parameters
Script
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
"Sow on a fixed date" compiled successfully


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
Factorial (example)
EucalyptusRotationExercises211004b
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Physical
SoilWater
Organic
Chemical
Initial water
Initial conditions
CERESSoilTemperature
Nutrient
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
ReportAnnual
LAI
AboveGroundWt
DBH
Height
ManagerExpt
Factors
Permutation
NRate
Stocking
800
1600
LincolnSoilWarragulMetDryCO2NExpt
Memo
Clock
Weather
ClimateController
Summary
Soil Arbitrator
Plantation
DBH
DBH
ManagerExptNRate0Stocking800
ManagerExptNRate150Stocking800
ManagerExptNRate0Stocking1600
ManagerExptNRate150Stocking1600
Eucalyptus.Stem.DBH
0
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6
8
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12
14
16
18
20
1996
1997
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1999
2000
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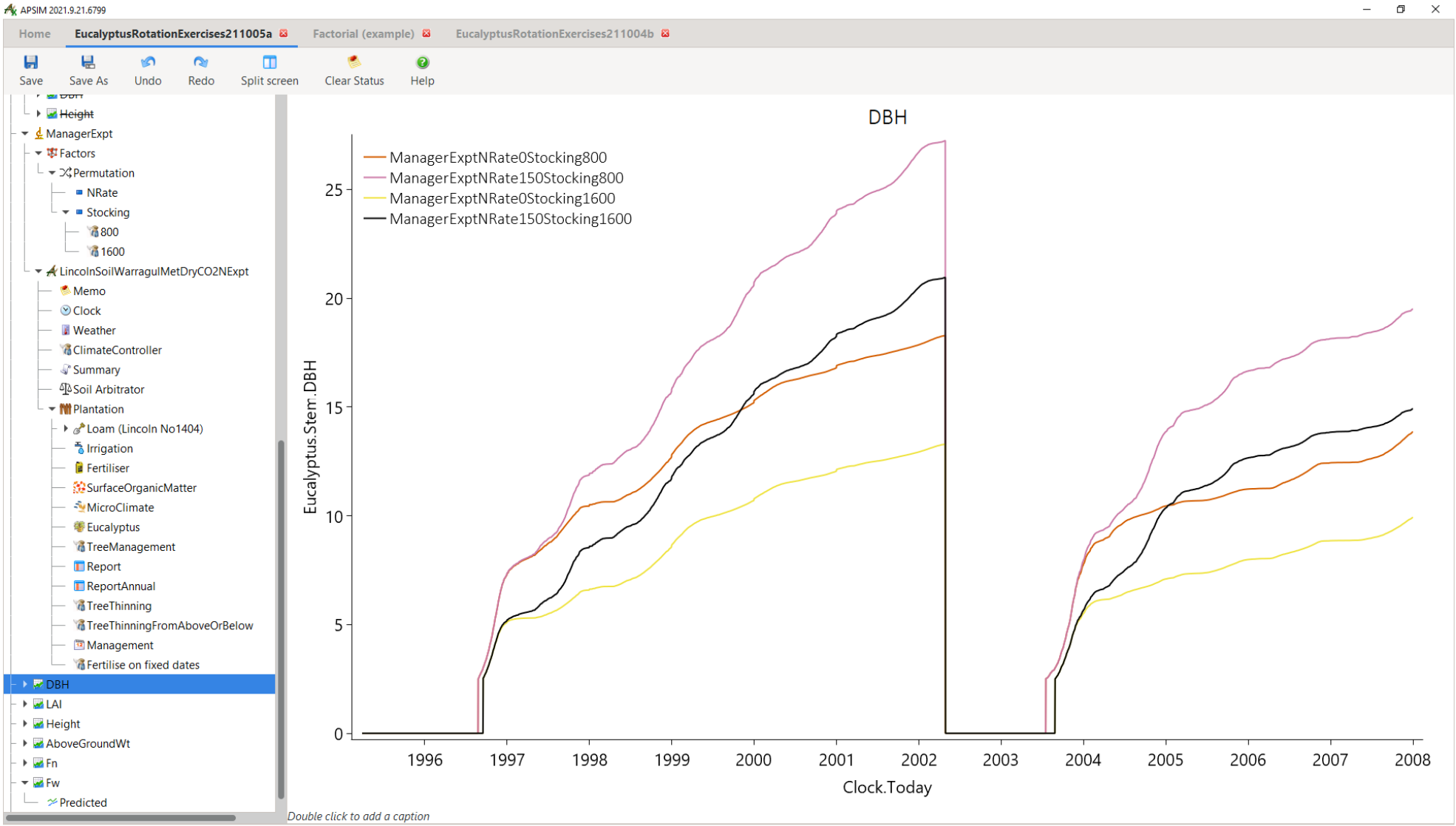
Clock.Today
Double click to add a caption
Simulations complete [5.91 sec]
ENG
9:37 AM

16.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
Factorial (example)
EucalyptusRotationExercises211004b
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Height
ManagerExpt
Factors
Permutation
NRate
Stocking
800
1600
LincolnSoilWarragulMetDryCO2NExpt
Memo
Clock
Weather
ClimateController
Summary
Soil Arbitrator
Plantation
Loam (Lincoln No1404)
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
ReportAnnual
TreeThinning
TreeThinningFromAboveOrBelow
Management
Fertilise on fixed dates
DBH
LAI
Height
AboveGroundWt
Fn
Fw
Predicted
DBH
ManagerExptNRate0Stocking800
ManagerExptNRate150Stocking800
ManagerExptNRate0Stocking1600
ManagerExptNRate150Stocking1600
Eucalyptus.Stem.DBH
0
5
10
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25
1996
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1998
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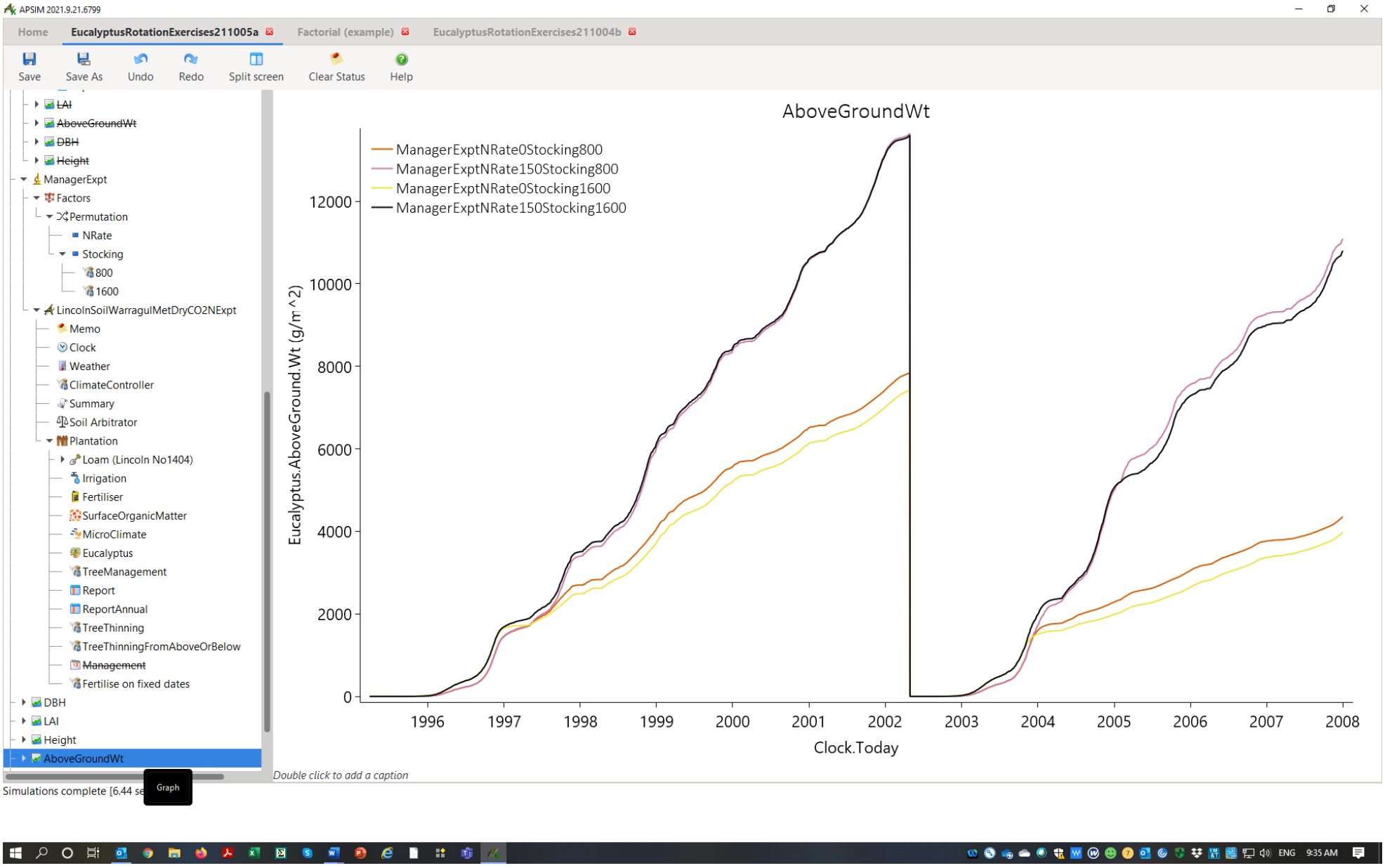
2004
2005
2006
2007
2008
Clock.Today
Double click to add a caption
Simulations complete [4.98 sec]
ENG
9:33 AM

16e.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
Factorial (example)
EucalyptusRotationExercises211004b
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Save As
Undo
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Split screen
Clear Status
Help
LAI
AboveGroundWt
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Height
ManagerExpt
Factors
Permutation
NRate
Stocking
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1600
LincolnSoilWarragulMetDryCO2NExpt
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Soil Arbitrator
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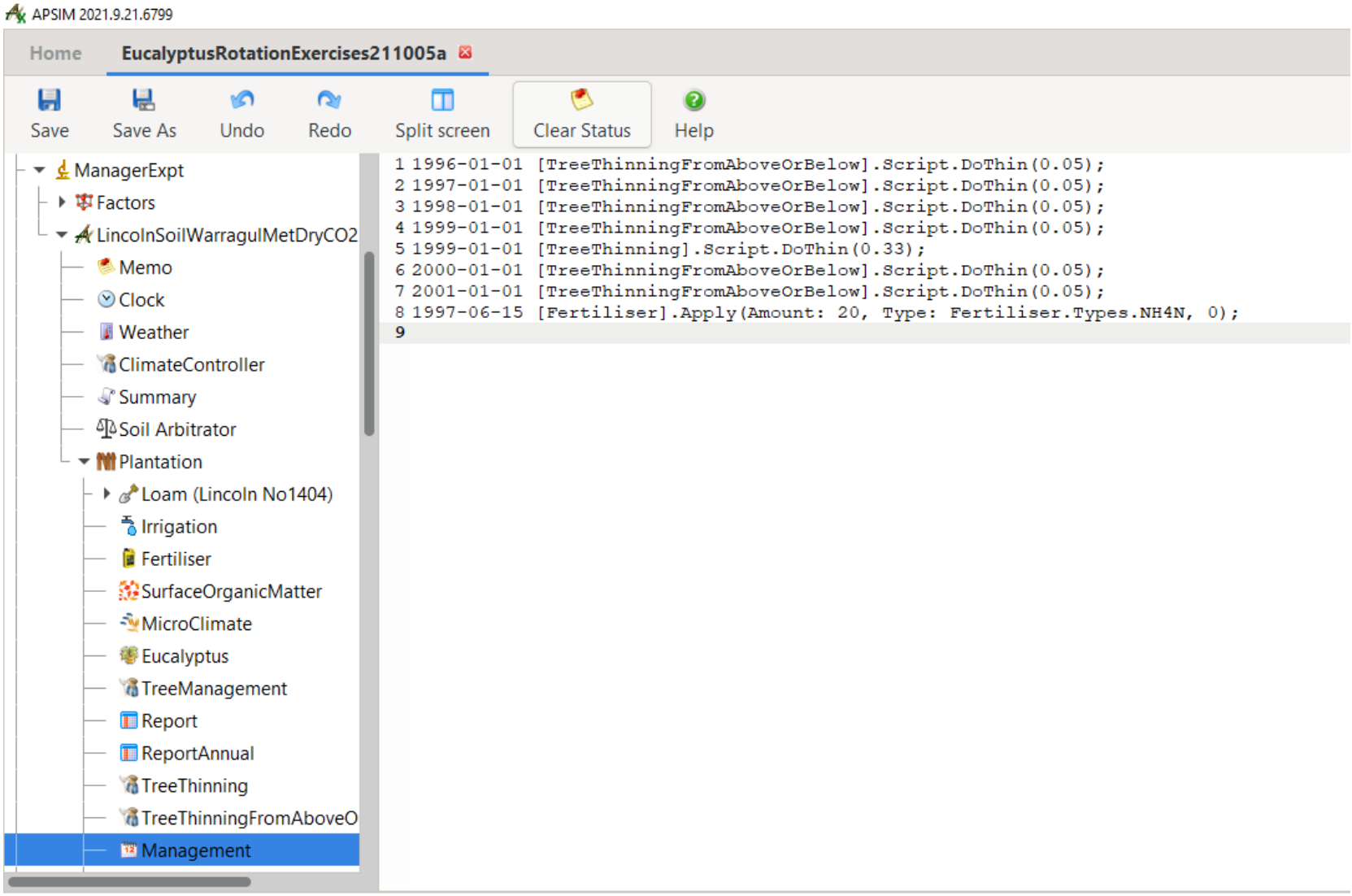
ReportAnnual
TreeThinning
TreeThinningFromAboveOrBelow
Management
Fertilise on fixed dates
DBH
LAI
Height
AboveGroundWt
AboveGroundWt
ManagerExptNRate0Stocking800
ManagerExptNRate150Stocking800
ManagerExptNRate0Stocking1600
ManagerExptNRate150Stocking1600
Eucalyptus.AboveGround.Wt (g/m^2)
0
2000
4000
6000
8000
10000
12000
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
Clock.Today
Double click to add a caption
Graph
Simulations complete [6.44 se
ENG
9:35 AM

17a.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
Save
Save As
Undo
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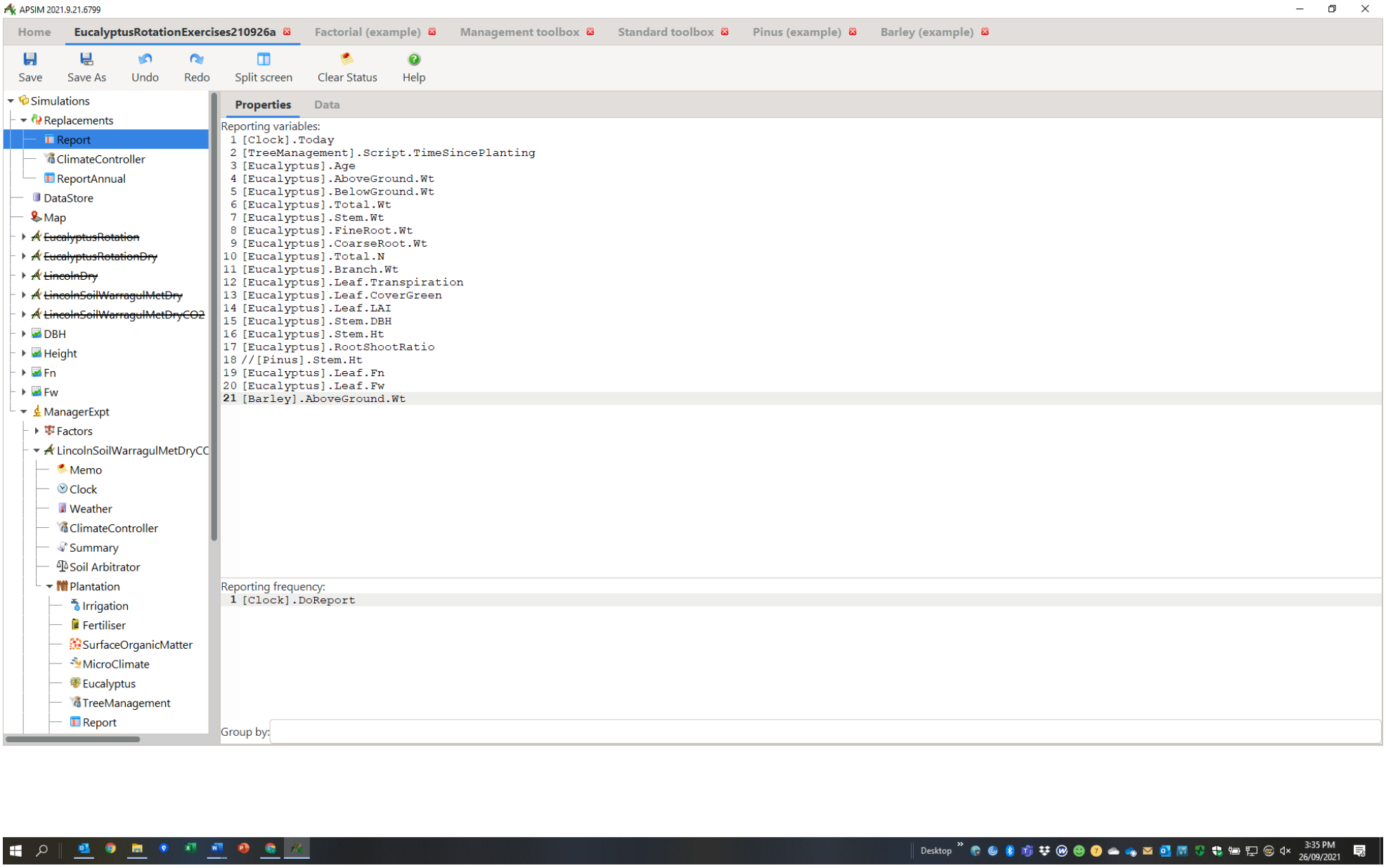
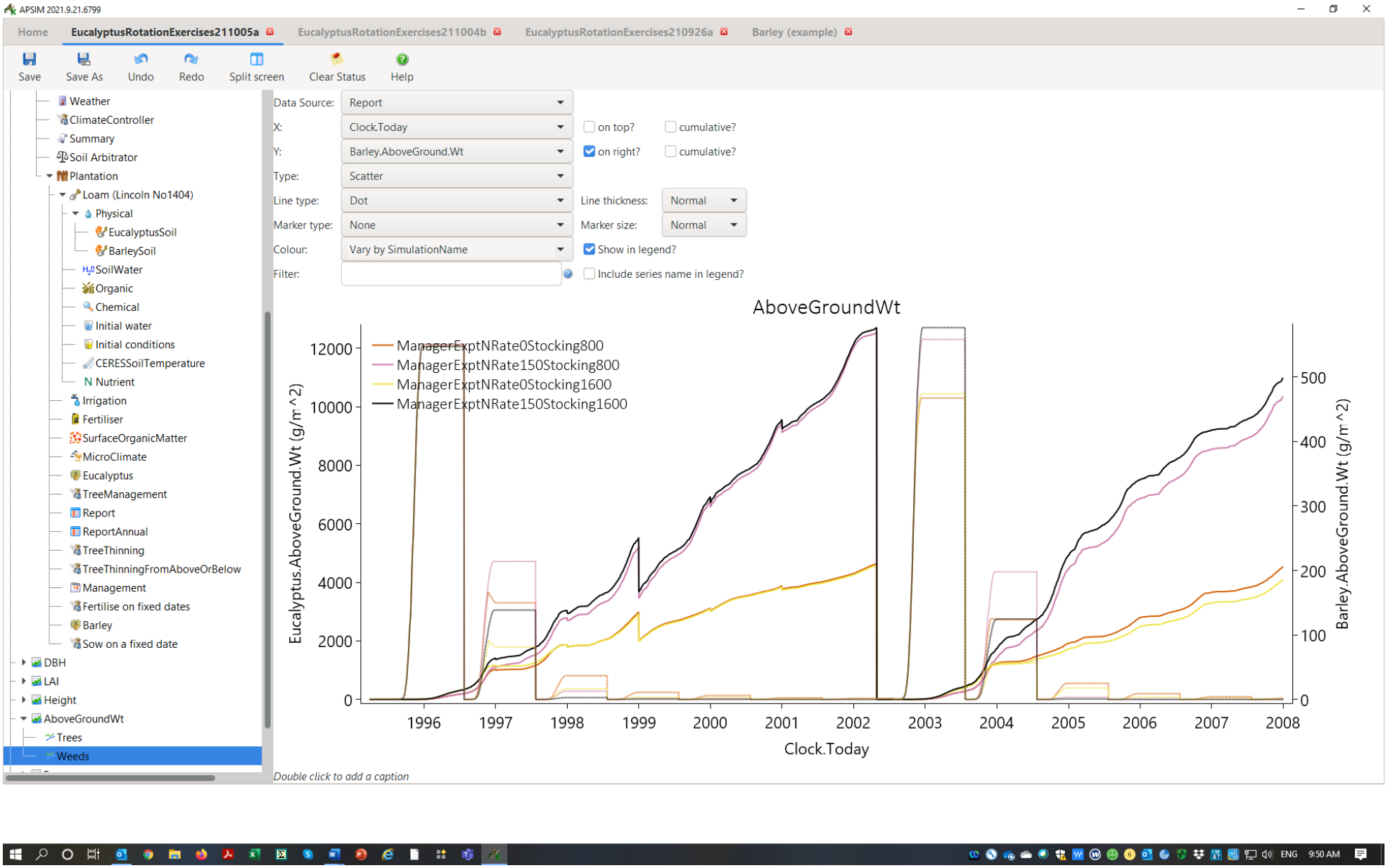
Split screen
Clear Status
Help
ManagerExpt
Factors
LincolnSoilWarragulMetDryCO2
Memo
Clock
Weather
ClimateController
Summary
Soil Arbitrator
Plantation
Loam (Lincoln No1404)
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
ReportAnnual
TreeThinning
TreeThinningFromAboveO
Management
1 1996-01-01 [TreeThinningFromAboveOrBelow].Script.DoThin(0.05);
2 1997-01-01 [TreeThinningFromAboveOrBelow].Script.DoThin(0.05);
3 1998-01-01 [TreeThinningFromAboveOrBelow].Script.DoThin(0.05);
4 1999-01-01 [TreeThinningFromAboveOrBelow].Script.DoThin(0.05);
5 1999-01-01 [TreeThinning].Script.DoThin(0.33);
6 2000-01-01 [TreeThinningFromAboveOrBelow].Script.DoThin(0.05);
7 2001-01-01 [TreeThinningFromAboveOrBelow].Script.DoThin(0.05);
8 1997-06-15 [Fertiliser].Apply(Amount: 20, Type: Fertiliser.Types.NH4N, 0);
9

17e.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises210926a
Factorial (example)
Management toolbox
Standard toolbox
Pinus (example)
Barley (example)
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Simulations
Replacements
Report
ClimateController
ReportAnnual
DataStore
Map
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
DBH
Height
Fn
Fw
ManagerExpt
Factors
LincolnSoilWarragulMetDryCC
Memo
Clock
Weather
ClimateController
Summary
Soil Arbitrator
Plantation
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
TreeManagement
Report
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
19 [Eucalyptus].Leaf.Fn
20 [Eucalyptus].Leaf.Fw
21 [Barley].AboveGround.Wt
Reporting frequency:
1 [Clock].DoReport
Group by:
Desktop
3:35 PM
26/09/2021

17h.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
EucalyptusRotationExercises211004b
EucalyptusRotationExercises210926a
Barley (example)
Save
Save As
Undo
Redo
Split screen
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Weather
ClimateController
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Soil Arbitrator
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Loam (Lincoln No1404)
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EucalyptusSoil
BarleySoil
SoilWater
Organic
Chemical
Initial water
Initial conditions
CERESSoilTemperature
Nutrient
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
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ReportAnnual
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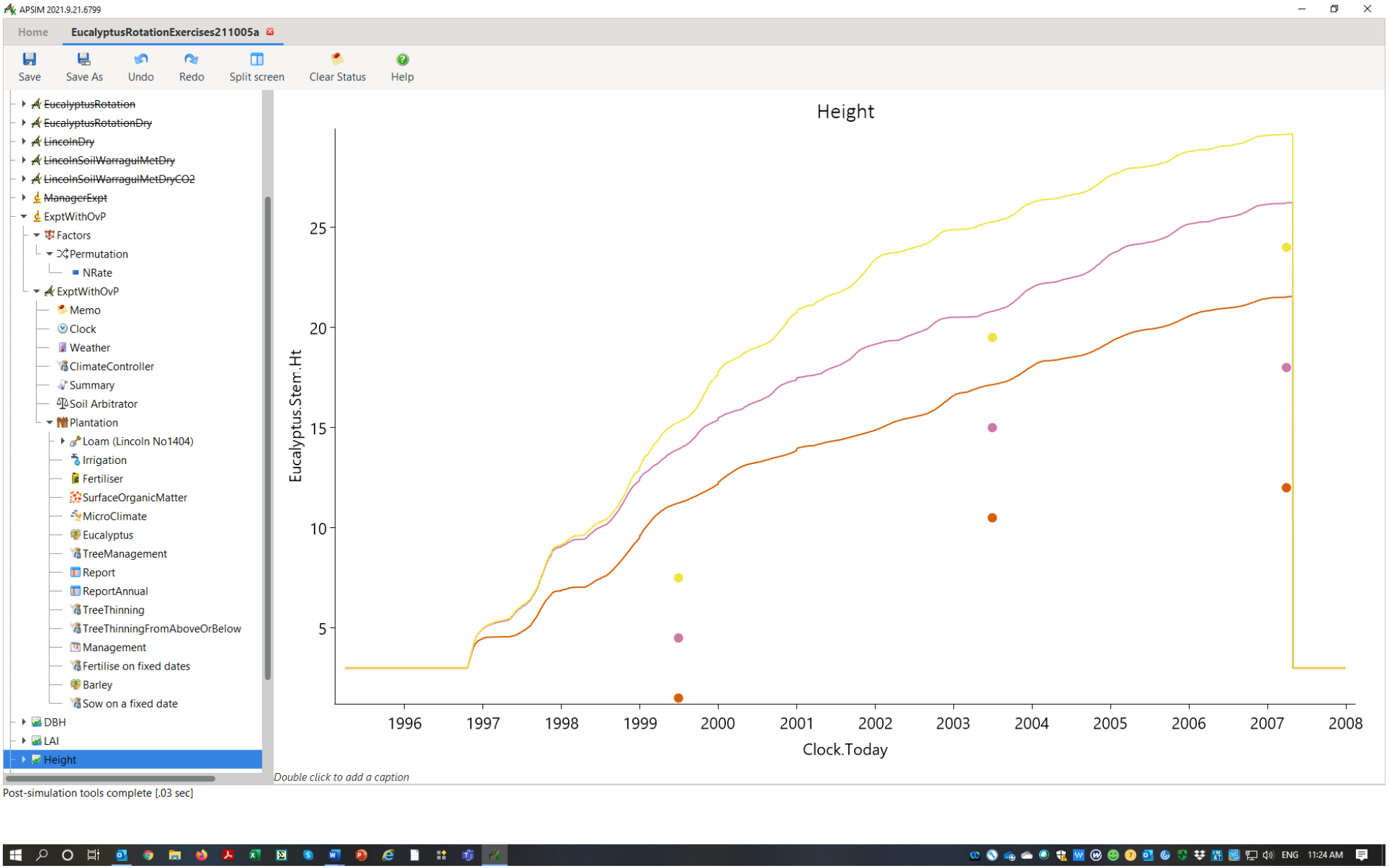
TreeThinningFromAboveOrBelow
Management
Fertilise on fixed dates
Barley
Sow on a fixed date
DBH
LAI
Height
AboveGroundWt
Trees
Weeds
Data Source: Report
X: Clock.Today
Y: Barley.AboveGround.Wt
Type: Scatter
Line type: Dot
Marker type: None
Colour: Vary by SimulationName
Filter:
on top?
cumulative?
on right?
cumulative?
Line thickness: Normal
Marker size: Normal
Show in legend?
Include series name in legend?
AboveGroundWt
ManagerExptNRate0Stocking800
ManagerExptNRate150Stocking800
ManagerExptNRate0Stocking1600
ManagerExptNRate150Stocking1600
Eucalyptus.AboveGround.Wt (g/m^2)
Barley.AboveGround.Wt (g/m^2)
Clock.Today
Double click to add a caption
ENG
9:50 AM

18k.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
EucalyptusRotation
EucalyptusRotationDry
LincolnDry
LincolnSoilWarragulMetDry
LincolnSoilWarragulMetDryCO2
ManagerExpt
ExptWithOvP
Factors
Permutation
NRate
ExptWithOvP
Memo
Clock
Weather
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Soil Arbitrator
Plantation
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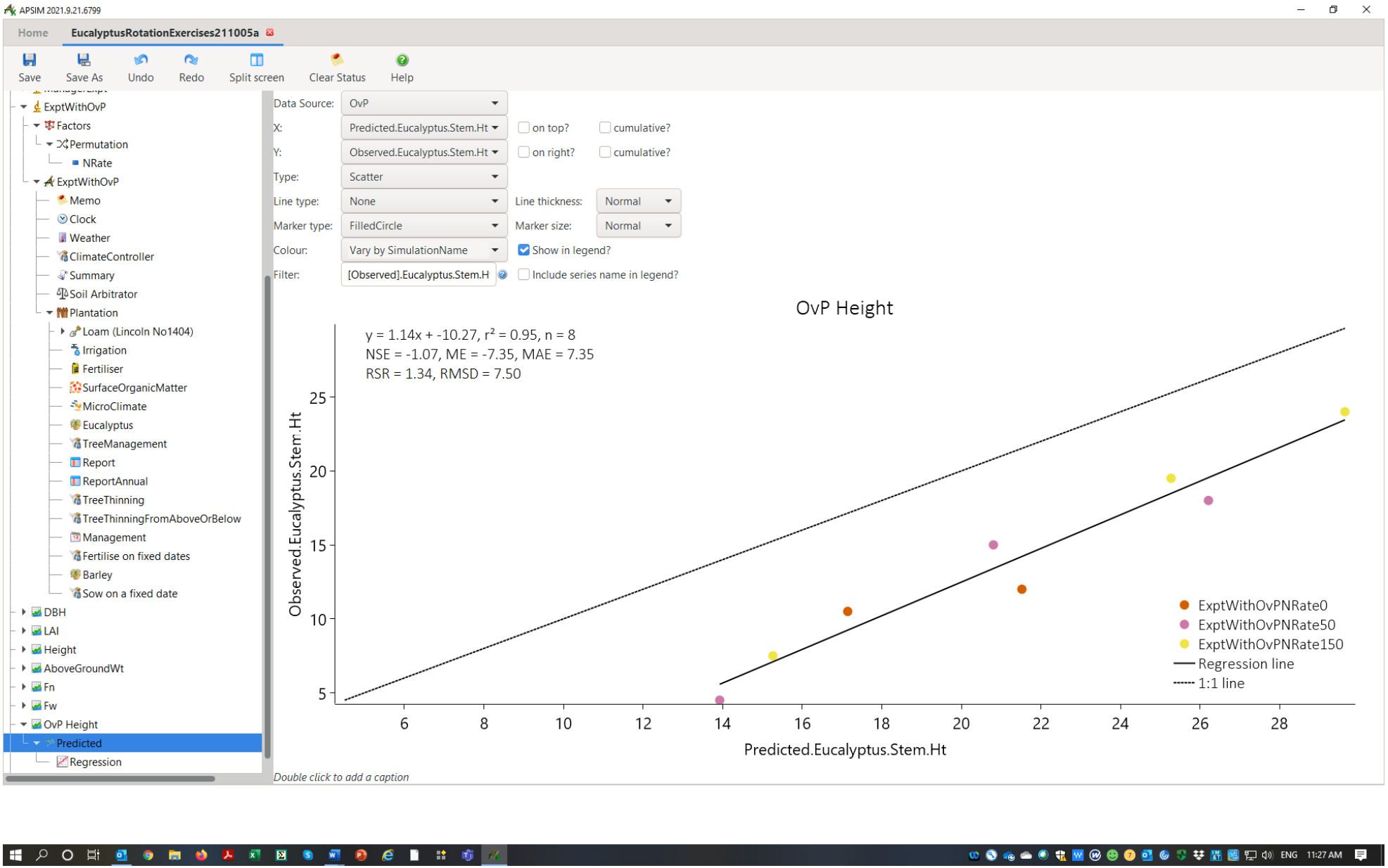
TreeThinningFromAboveOrBelow
Management
Fertilise on fixed dates
Barley
Sow on a fixed date
DBH
LAI
Height
Height
Eucalyptus.Stem.Ht
Clock.Today
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
5
10
15
20
25
Double click to add a caption
Post-simulation tools complete [.03 sec]
ENG
11:24 AM

19h.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
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Save As
Undo
Redo
Split screen
Clear Status
Help
ExptWithOvP
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NRate
ExptWithOvP
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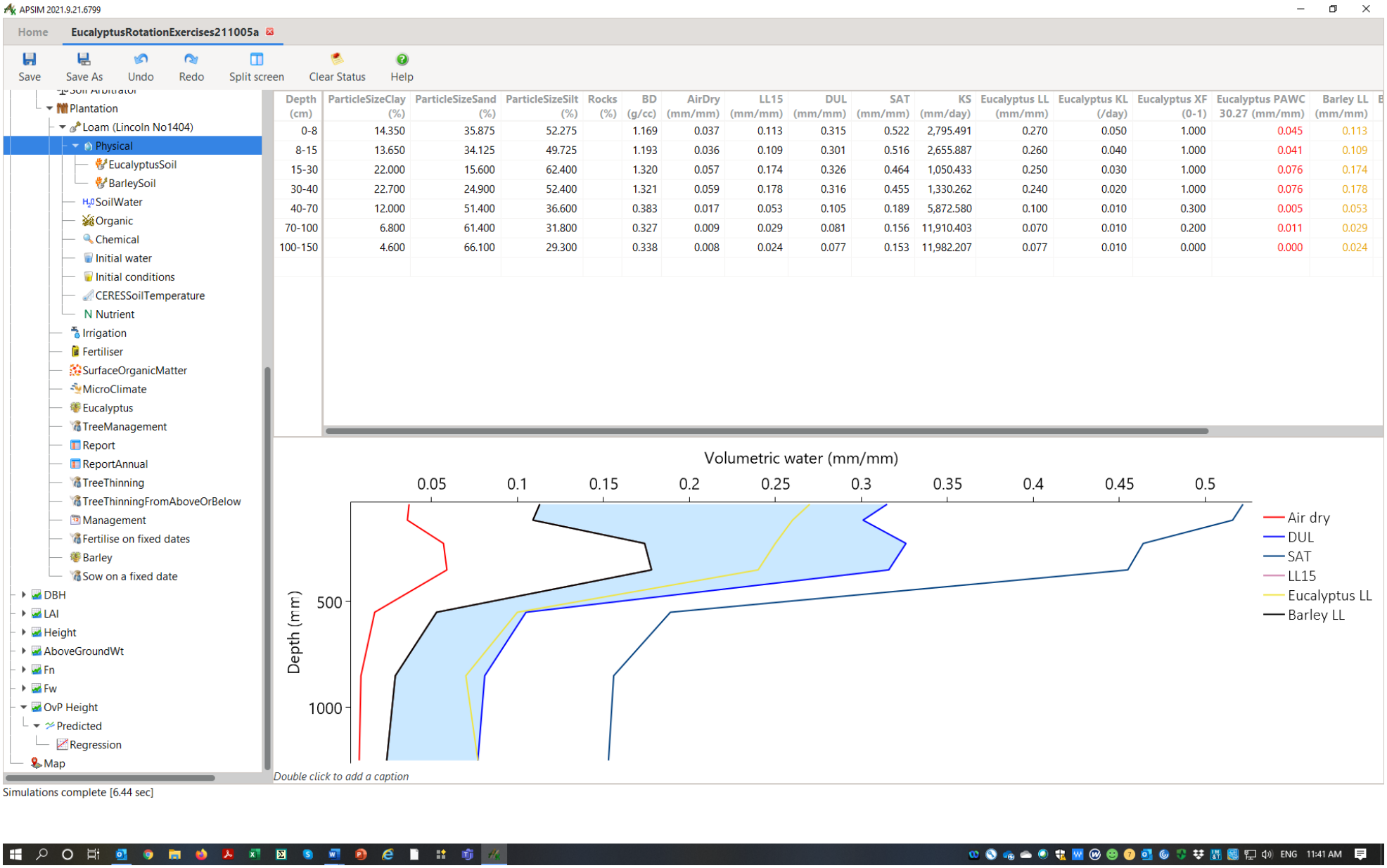
TreeThinning
TreeThinningFromAboveOrBelow
Management
Fertilise on fixed dates
Barley
Sow on a fixed date
DBH
LAI
Height
AboveGroundWt
Fn
Fw
OvP Height
Predicted
Regression
Data Source: OvP
X: Predicted.Eucalyptus.Stem.Ht
Y: Observed.Eucalyptus.Stem.Ht
Type: Scatter
Line type: None
Marker type: FilledCircle
Colour: Vary by SimulationName
Filter: [Observed].Eucalyptus.Stem.H
on top?
cumulative?
on right?
cumulative?
Line thickness: Normal
Marker size: Normal
Show in legend?
Include series name in legend?
OvP Height
y = 1.14x + -10.27, r² = 0.95, n = 8
NSE = -1.07, ME = -7.35, MAE = 7.35
RSR = 1.34, RMSD = 7.50
Observed.Eucalyptus.Stem.Ht
Predicted.Eucalyptus.Stem.Ht
ExptWithOvPNRate0
ExptWithOvPNRate50
ExptWithOvPNRate150
Regression line
1:1 line
Double click to add a caption

20d-f.


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
Save
Save As
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Clear Status
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Plantation
Loam (Lincoln No1404)
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BarleySoil
SoilWater
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Chemical
Initial water
Initial conditions
CERESSoilTemperature
Nutrient
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
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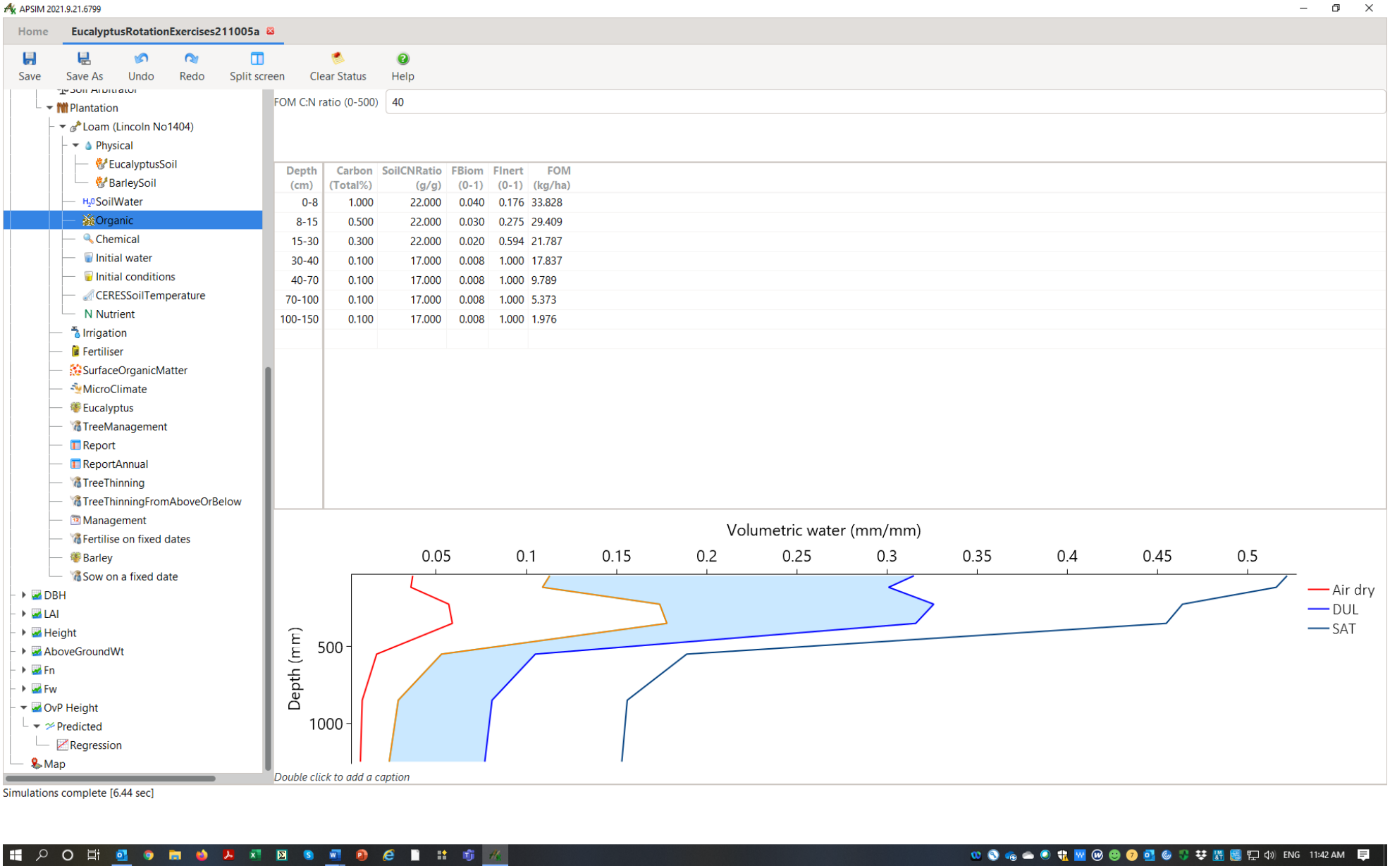
TreeThinningFromAboveOrBelow
Management
Fertilise on fixed dates
Barley
Sow on a fixed date
DBH
LAI
Height
AboveGroundWt
Fn
Fw
OvP Height
Predicted
Regression
Map
Depth (cm) | ParticleSizeClay (%) | ParticleSizeSand (%) | ParticleSizeSilt (%) | Rocks (%) | BD (g/cc) | AirDry (mm/mm) | LL15 (mm/mm) | DUL (mm/mm) | SAT (mm/mm) | KS (mm/day) | Eucalyptus LL (mm/mm) | Eucalyptus KL (/day) | Eucalyptus XF (0-1) | Eucalyptus PAWC 30.27 (mm/mm) | Barley LL (mm/mm)
0-8 | 14.350 | 35.875 | 52.275 | | 1.169 | 0.037 | 0.113 | 0.315 | 0.522 | 2,795.491 | 0.270 | 0.050 | 1.000 | 0.045 | 0.113
8-15 | 13.650 | 34.125 | 49.725 | | 1.193 | 0.036 | 0.109 | 0.301 | 0.516 | 2,655.887 | 0.260 | 0.040 | 1.000 | 0.041 | 0.109
15-30 | 22.000 | 15.600 | 62.400 | | 1.320 | 0.057 | 0.174 | 0.326 | 0.464 | 1,050.433 | 0.250 | 0.030 | 1.000 | 0.076 | 0.174
30-40 | 22.700 | 24.900 | 52.400 | | 1.321 | 0.059 | 0.178 | 0.316 | 0.455 | 1,330.262 | 0.240 | 0.020 | 1.000 | 0.076 | 0.178
40-70 | 12.000 | 51.400 | 36.600 | | 0.383 | 0.017 | 0.053 | 0.105 | 0.189 | 5,872.580 | 0.100 | 0.010 | 0.300 | 0.005 | 0.053
70-100 | 6.800 | 61.400 | 31.800 | | 0.327 | 0.009 | 0.029 | 0.081 | 0.156 | 11,910.403 | 0.070 | 0.010 | 0.200 | 0.011 | 0.029
100-150 | 4.600 | 66.100 | 29.300 | | 0.338 | 0.008 | 0.024 | 0.077 | 0.153 | 11,982.207 | 0.077 | 0.010 | 0.000 | 0.000 | 0.024
Volumetric water (mm/mm)
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
Depth (mm)
500
1000
Air dry
DUL
SAT
LL15
Eucalyptus LL
Barley LL
Double click to add a caption
Simulations complete [6.44 sec]
ENG
11:41 AM


APSIM 2021.9.21.6799
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Plantation
Loam (Lincoln No1404)
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BarleySoil
SoilWater
Organic
Chemical
Initial water
Initial conditions
CERESSoilTemperature
N Nutrient
Irrigation
Fertiliser
SurfaceOrganicMatter
MicroClimate
Eucalyptus
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ReportAnnual
TreeThinning
TreeThinningFromAboveOrBelow
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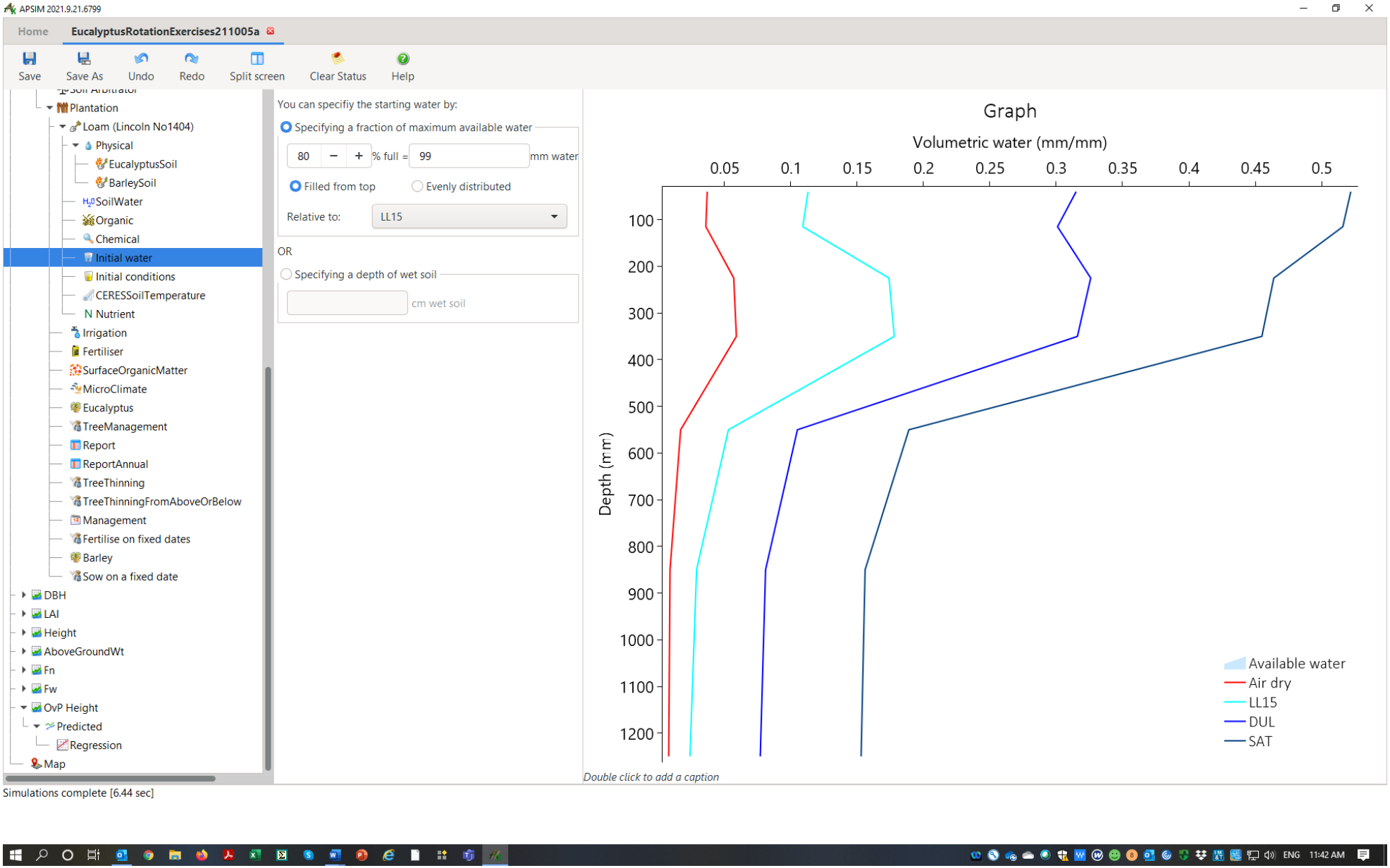
Fertilise on fixed dates
Barley
Sow on a fixed date
DBH
LAI
Height
AboveGroundWt
Fn
Fw
OvP Height
Predicted
Regression
Map
FOM C:N ratio (0-500) 40
Depth (cm) Carbon (Total%) SoilCNRatio (g/g) FBiom (0-1) FInert (0-1) FOM (kg/ha)
0-8 1.000 22.000 0.040 0.176 33.828
8-15 0.500 22.000 0.030 0.275 29.409
15-30 0.300 22.000 0.020 0.594 21.787
30-40 0.100 17.000 0.008 1.000 17.837
40-70 0.100 17.000 0.008 1.000 9.789
70-100 0.100 17.000 0.008 1.000 5.373
100-150 0.100 17.000 0.008 1.000 1.976
Volumetric water (mm/mm)
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
Depth (mm)
500
1000
Air dry
DUL
SAT
Double click to add a caption
Simulations complete [6.44 sec]
ENG
11:42 AM


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
Save
Save As
Undo
Redo
Split screen
Clear Status
Help
Plantation
Loam (Lincoln No1404)
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BarleySoil
SoilWater
Organic
Chemical
Initial water
Initial conditions
CERESSoilTemperature
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ReportAnnual
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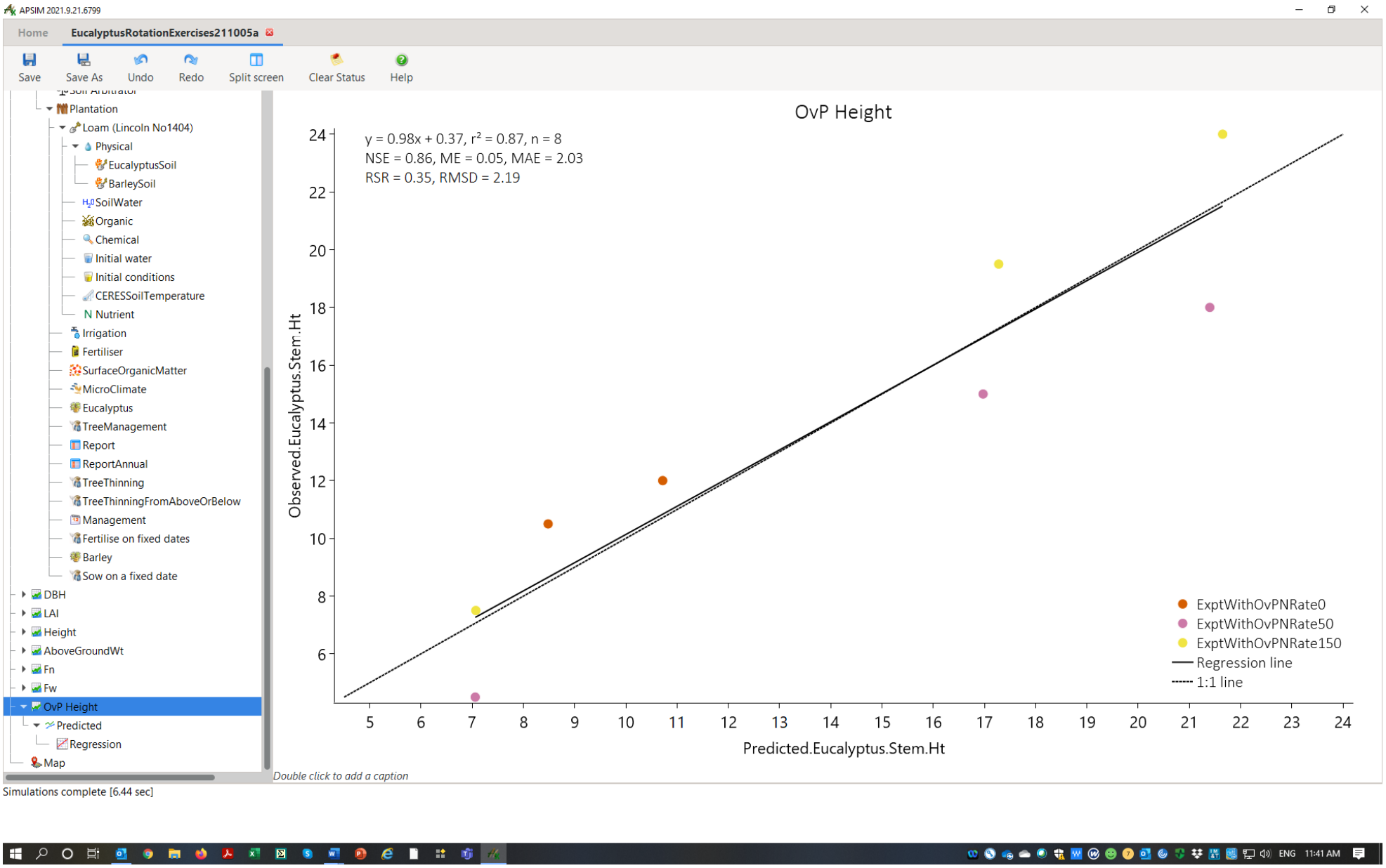
TreeThinningFromAboveOrBelow
Management
Fertilise on fixed dates
Barley
Sow on a fixed date
DBH
LAI
Height
AboveGroundWt
Fn
Fw
OvP Height
Predicted
Regression
Map
You can specifiy the starting water by:
Specifying a fraction of maximum available water
80
% full =
99
mm water
Filled from top
Evenly distributed
Relative to:
LL15
OR
Specifying a depth of wet soil
cm wet soil
Graph
Volumetric water (mm/mm)
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
Depth (mm)
100
200
300
400
500
600
700
800
900
1000
1100
1200
Available water
Air dry
LL15
DUL
SAT
Double click to add a caption
Simulations complete [6.44 sec]
ENG
11:42 AM


APSIM 2021.9.21.6799
Home
EucalyptusRotationExercises211005a
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Plantation
Loam (Lincoln No1404)
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TreeThinningFromAboveOrBelow
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Fertilise on fixed dates
Barley
Sow on a fixed date
DBH
LAI
Height
AboveGroundWt
Fn
Fw
OvP Height
Predicted
Regression
Map
OvP Height
y = 0.98x + 0.37, r² = 0.87, n = 8
NSE = 0.86, ME = 0.05, MAE = 2.03
RSR = 0.35, RMSD = 2.19
Observed.Eucalyptus.Stem.Ht
Predicted.Eucalyptus.Stem.Ht
ExptWithOvPNRate0
ExptWithOvPNRate50
ExptWithOvPNRate150
Regression line
1:1 line
Double click to add a caption
Simulations complete [6.44 sec]
ENG
11:41 AM