

# YPASG – N Monitoring & N Response Projects

Pete Treloar

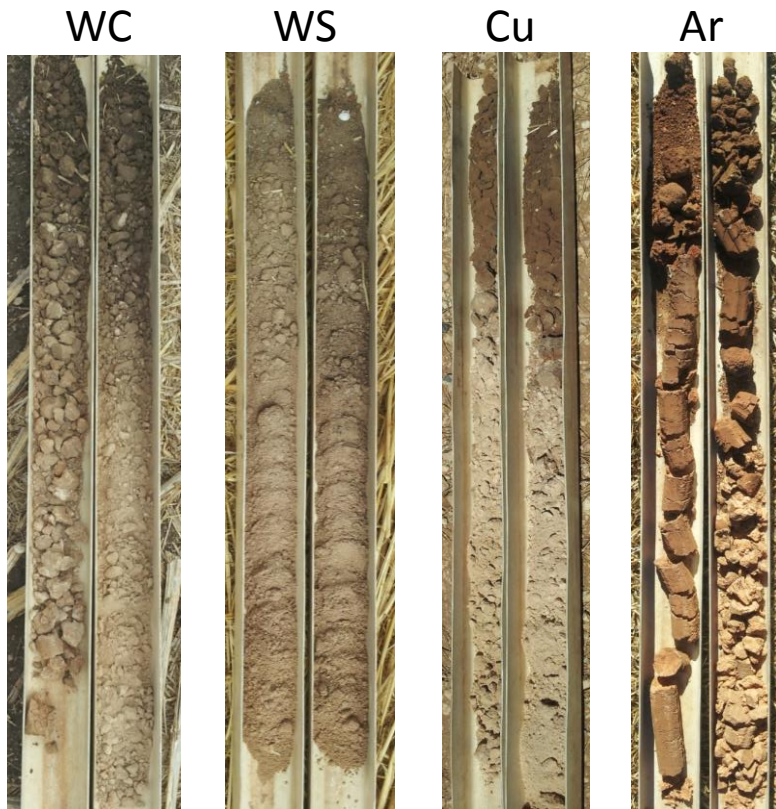
Precision Ag Services

# Changes in how we crop

- NoTill
  - Not repeatedly damaging soil structure
  - Soil Microbial activity increased
- Continuous Cropping
  - Increase in biomass put into the system each year
- Reduced cereal intensity
  - Improved biodiversity
  - Change in input/output crop ratio

# N Monitoring

- 6 Sites – Arthurton to Warooka
- Heavy Clays to Sand



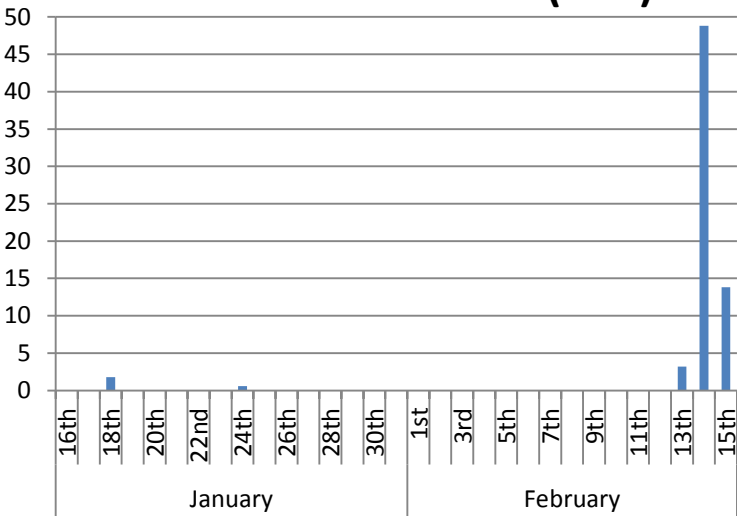


| Long Term NoTill        |      |
|-------------------------|------|
| Colwell P               | 36   |
| Colwell K               | 938  |
| Sulphur                 | 5.5  |
| Org. Carbon             | 2.15 |
| pH (CaCl <sub>2</sub> ) | 7.7  |
| pH (H <sub>2</sub> O)   | 8.2  |

| New NoTill              |      |
|-------------------------|------|
| Colwell P               | 25   |
| Colwell K               | 822  |
| Sulphur                 | 6.4  |
| Org. Carbon             | 2.25 |
| pH (CaCl <sub>2</sub> ) | 7.6  |
| pH (H <sub>2</sub> O)   | 8    |

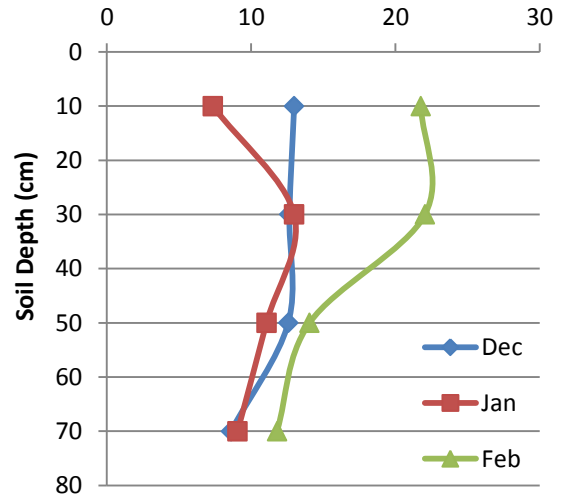


# Prior Months Rainfall (mm)

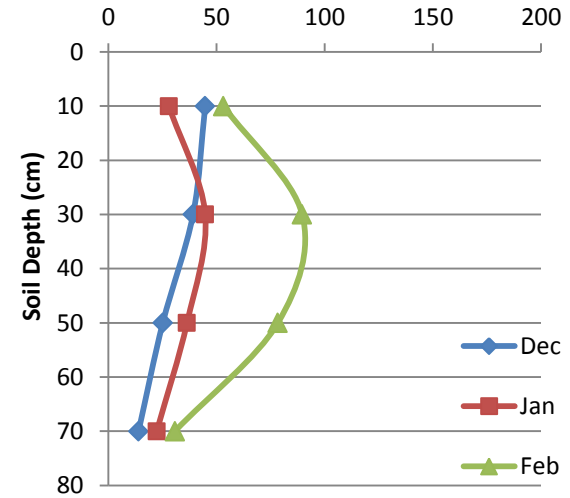


December  
to  
February

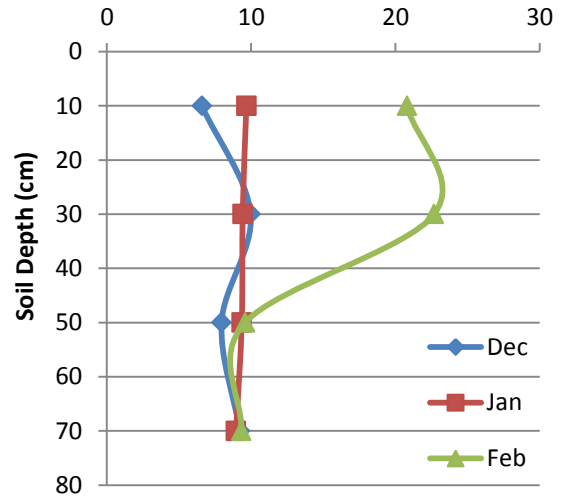
### Minlaton Longterm NoTill Moisture (%)



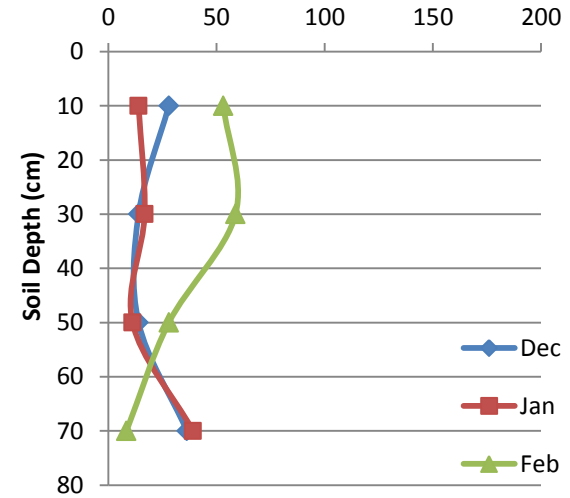
### Minlaton Longterm NoTill Nitrogen (kg/ha)



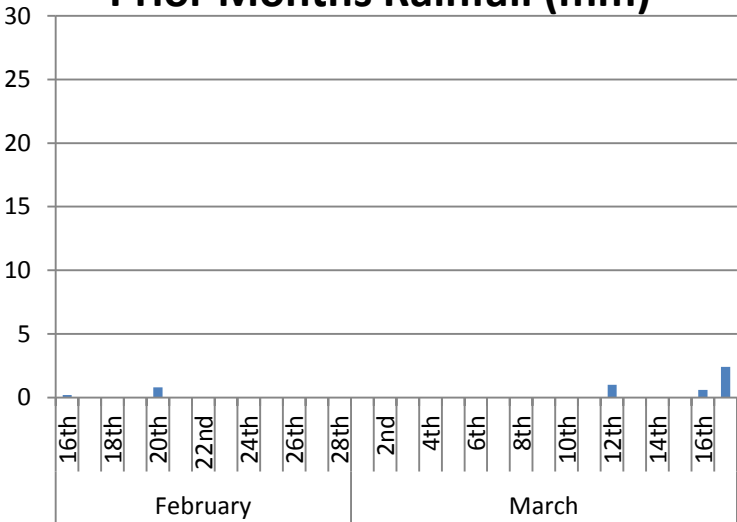
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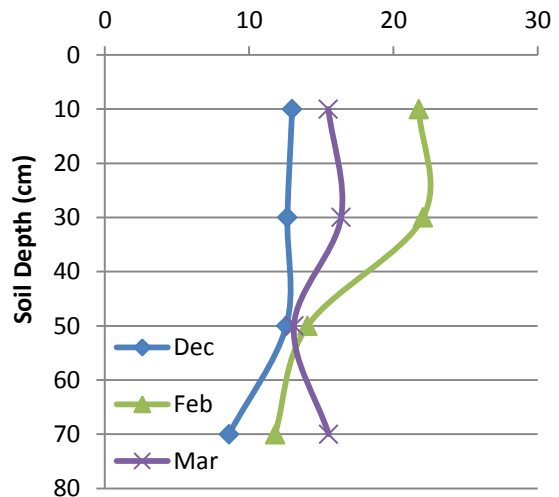


# Prior Months Rainfall (mm)

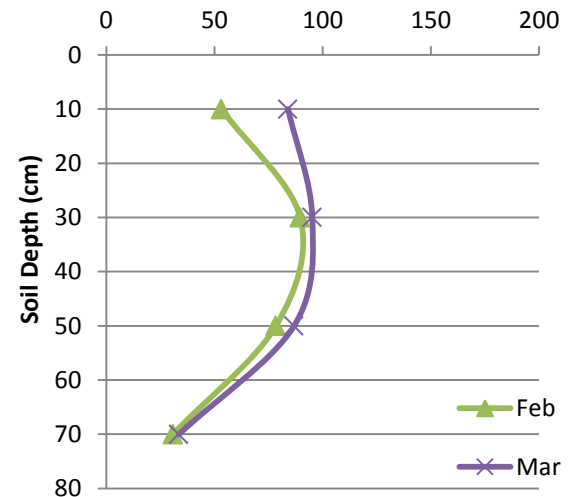


# March

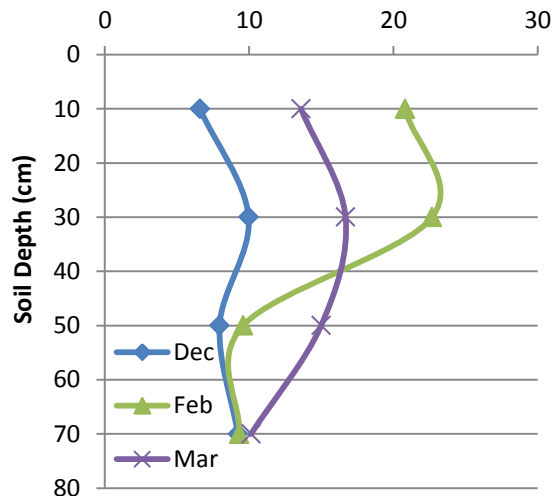
Minlaton Longterm NoTill Moisture (%)



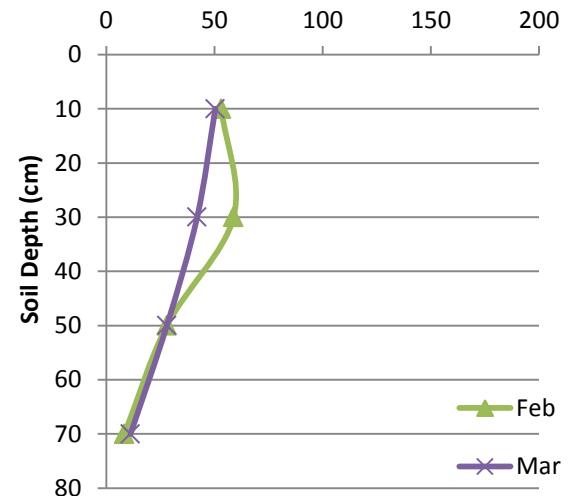
Minlaton Longterm NoTill Nitrogen (kg/ha)



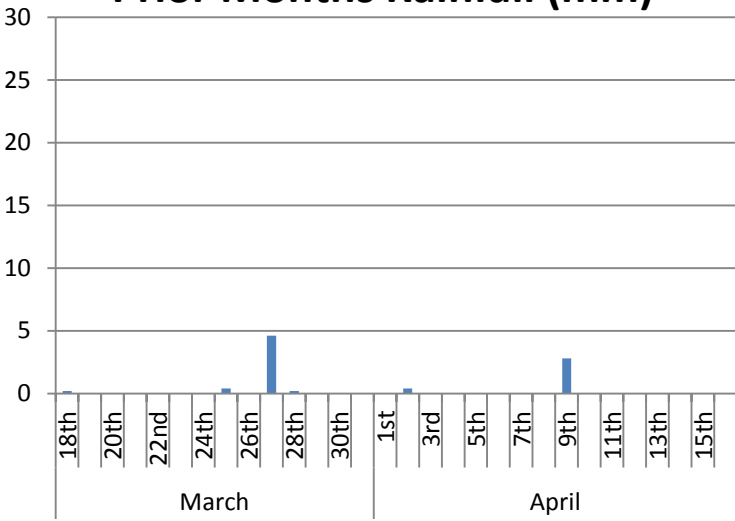
Minlaton New NoTill Moisture (%)



Minlaton New NoTill Nitrogen (kg/ha)

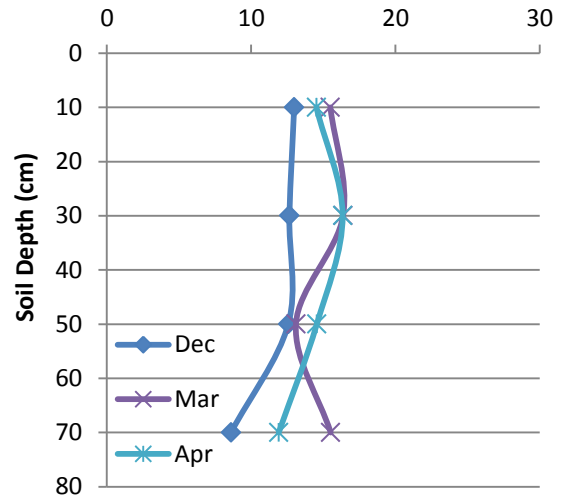


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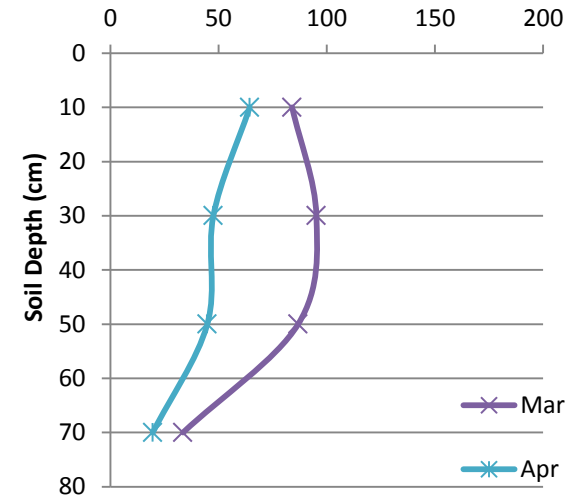


April

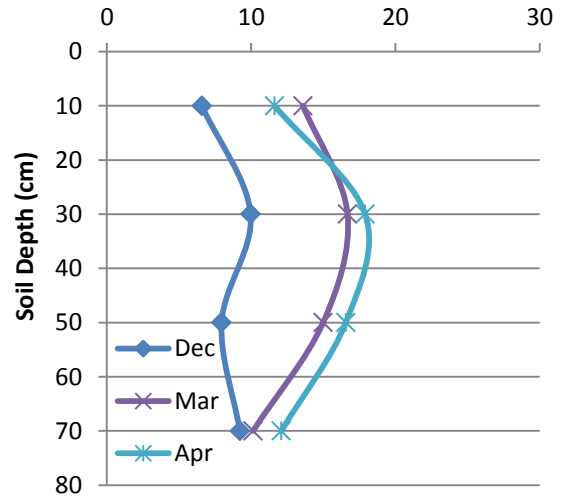
### Minlaton Longterm NoTill Moisture (%)



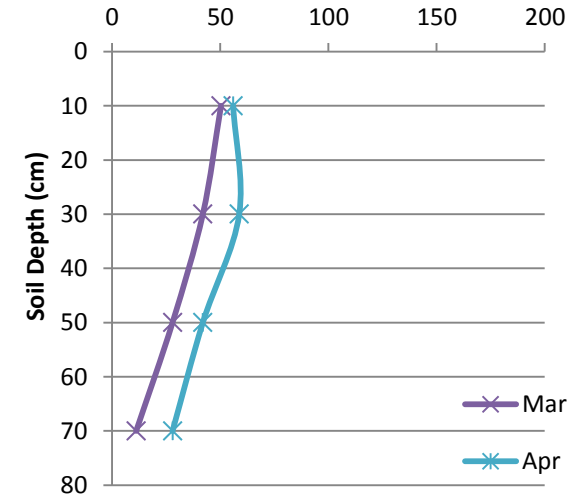
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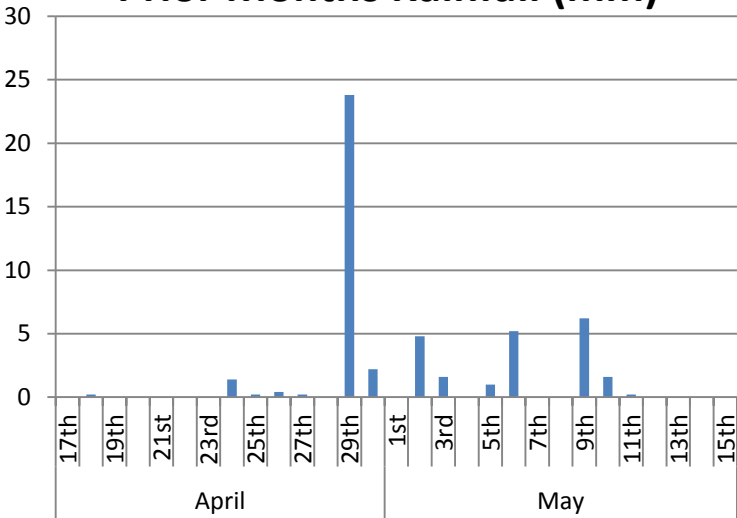
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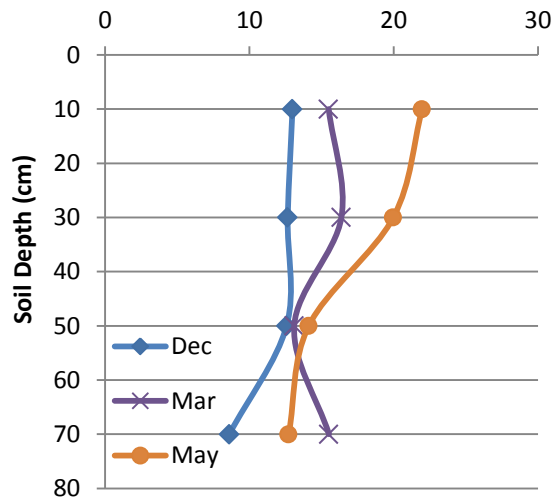


# Prior Months Rainfall (mm)

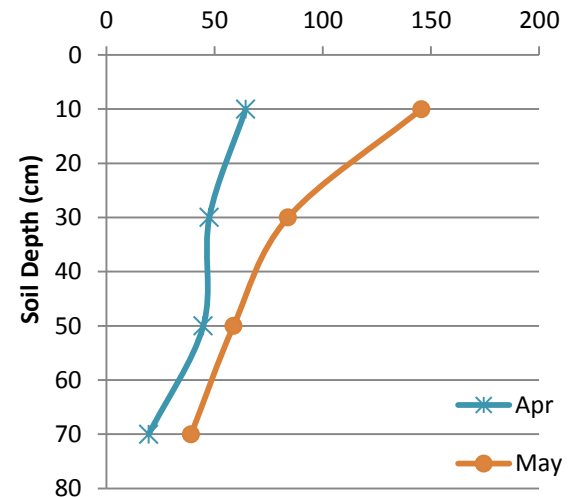


May

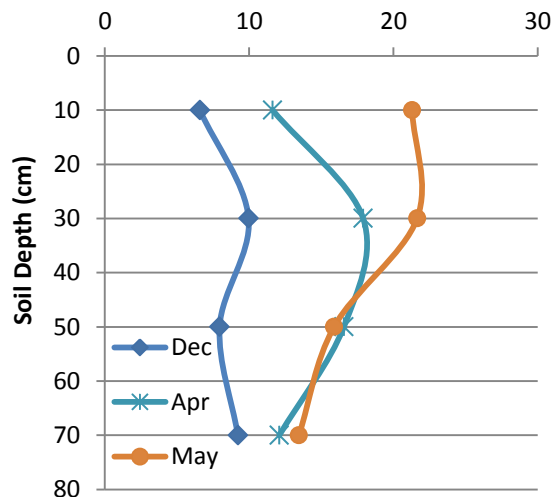
### Minlaton Longterm NoTill Moisture (%)



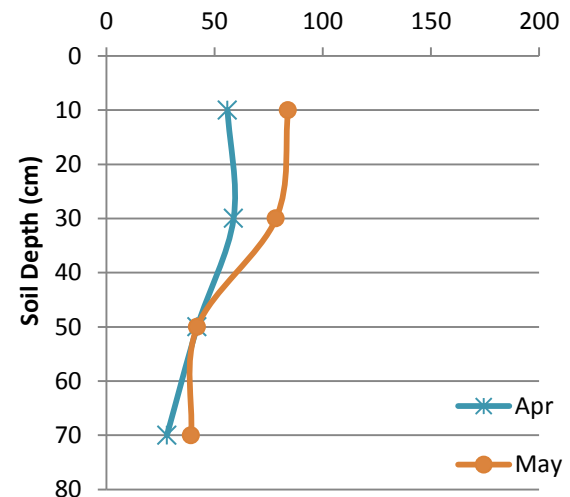
### Minlaton Longterm NoTill Nitrogen (kg/ha)



### Minlaton New NoTill Moisture (%)



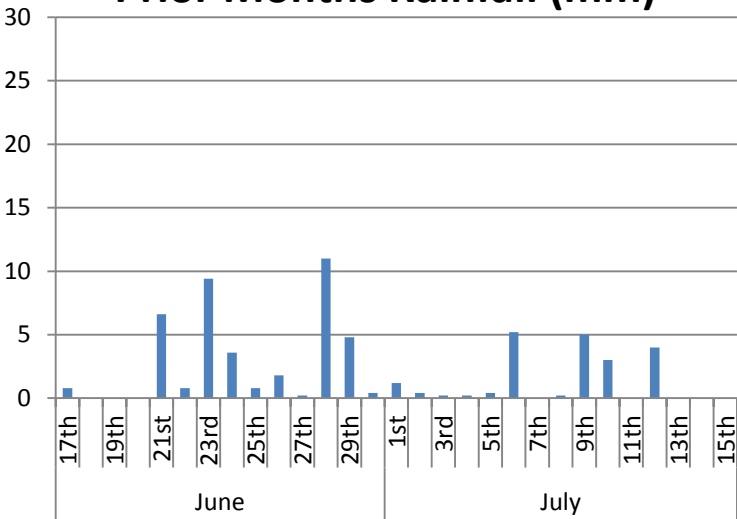
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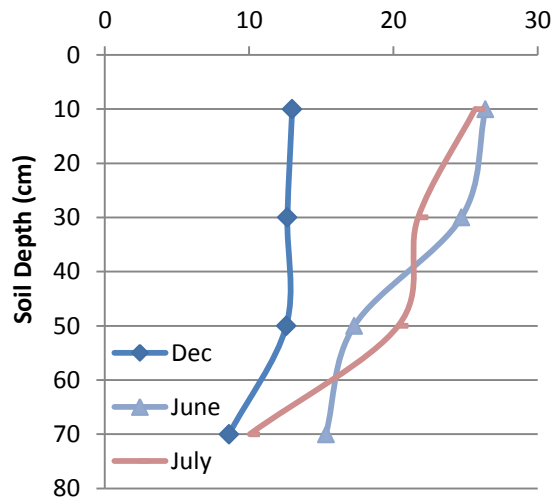


# Prior Months Rainfall (mm)

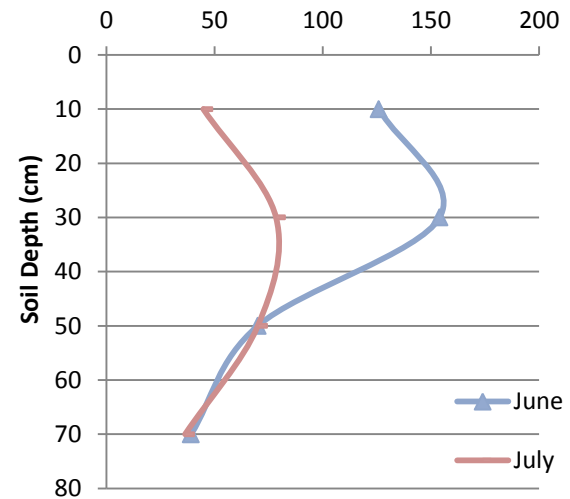


July

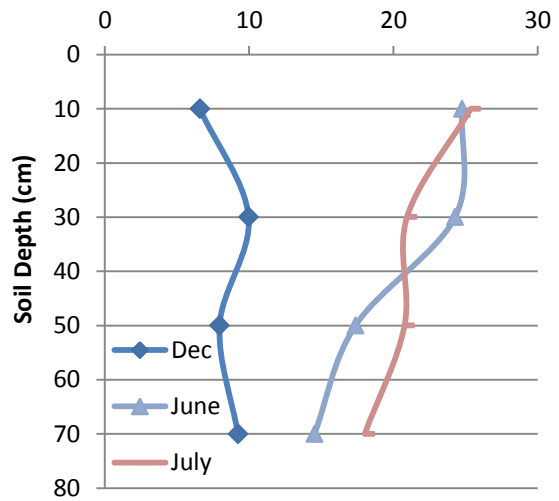
### Minlaton Longterm NoTill Moisture (%)



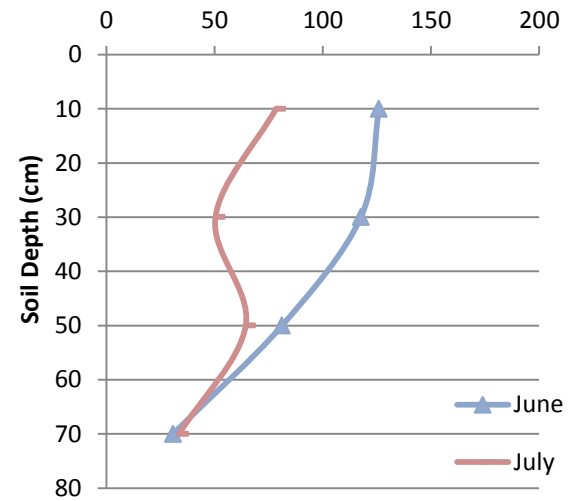
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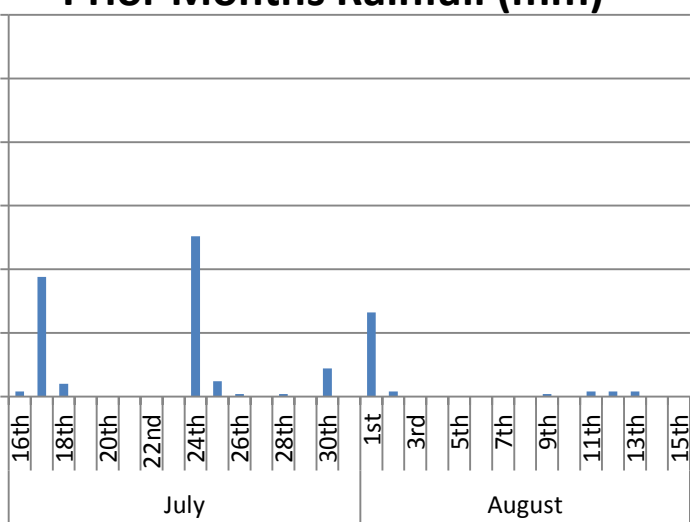
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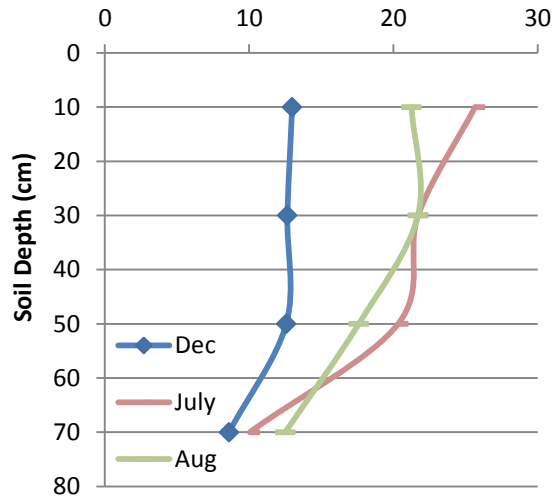


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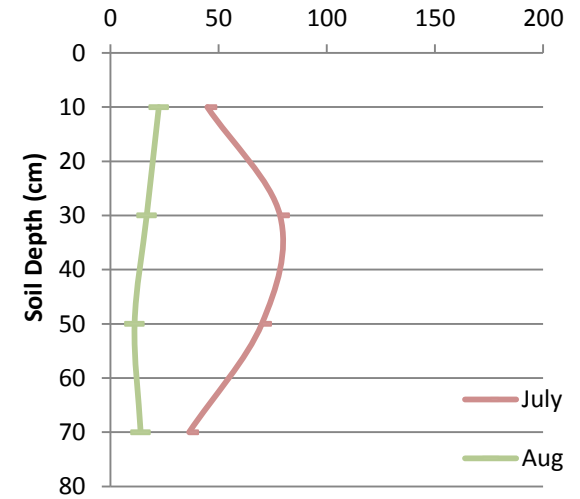


# August

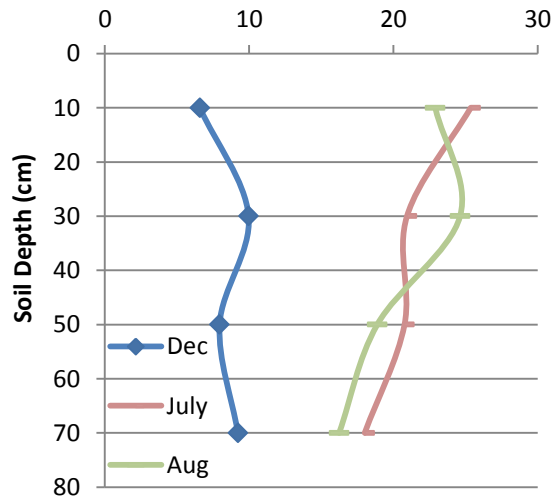
Minlaton Longterm NoTill Moisture (%)



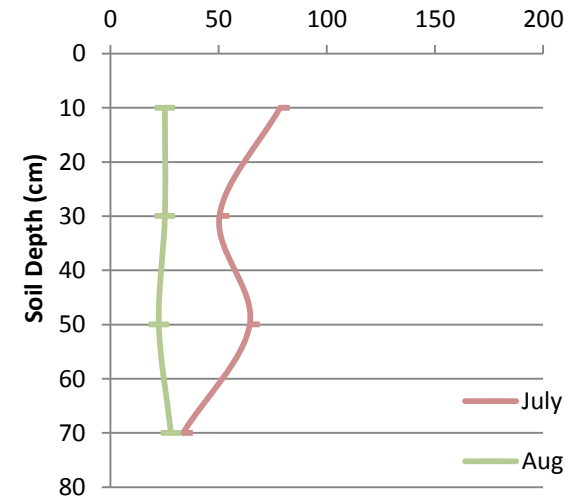
Minlaton Longterm NoTill Nitrogen (kg/ha)



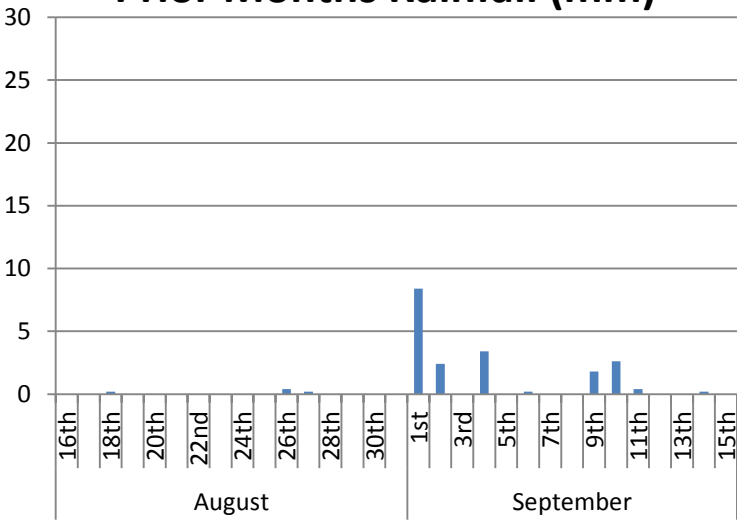
Minlaton New NoTill Moisture (%)



Minlaton New NoTill Nitrogen (kg/ha)

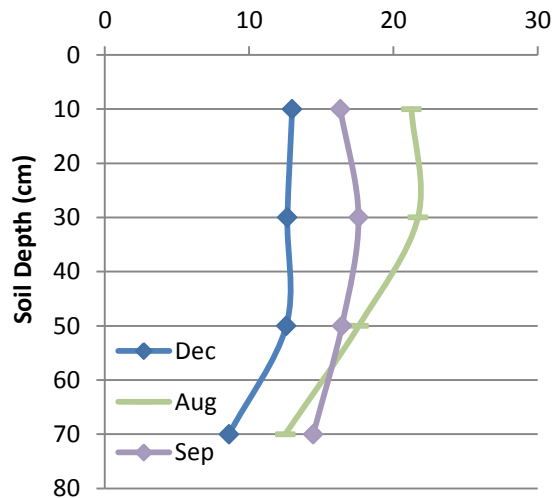


# Prior Months Rainfall (mm)

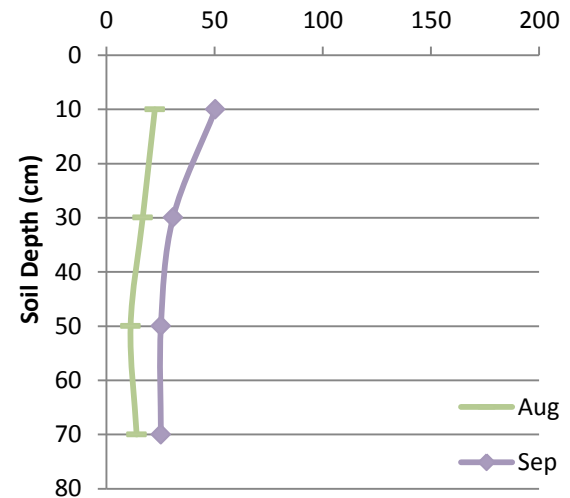


# September

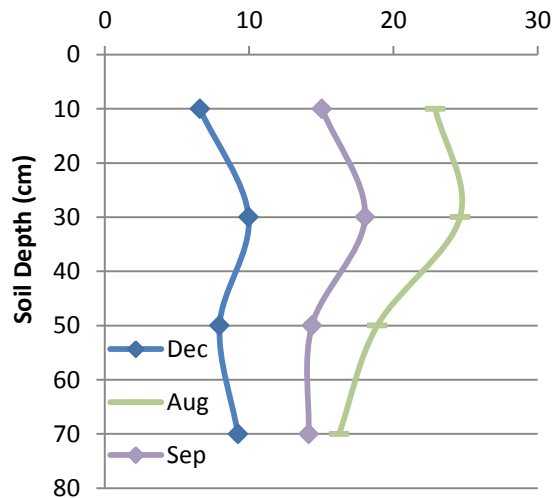
Minlaton Longterm NoTill Moisture (%)



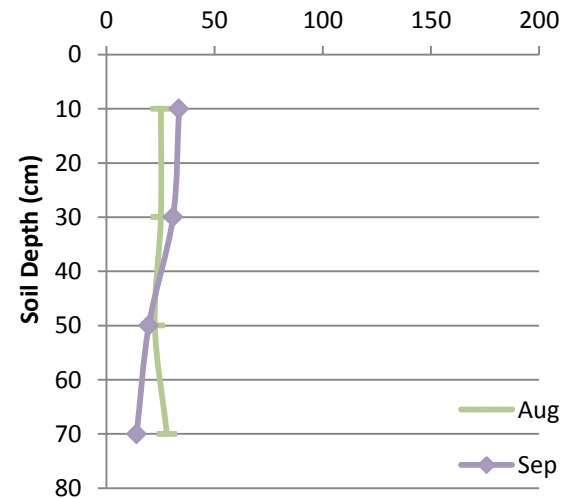
Minlaton Longterm NoTill Nitrogen (kg/ha)



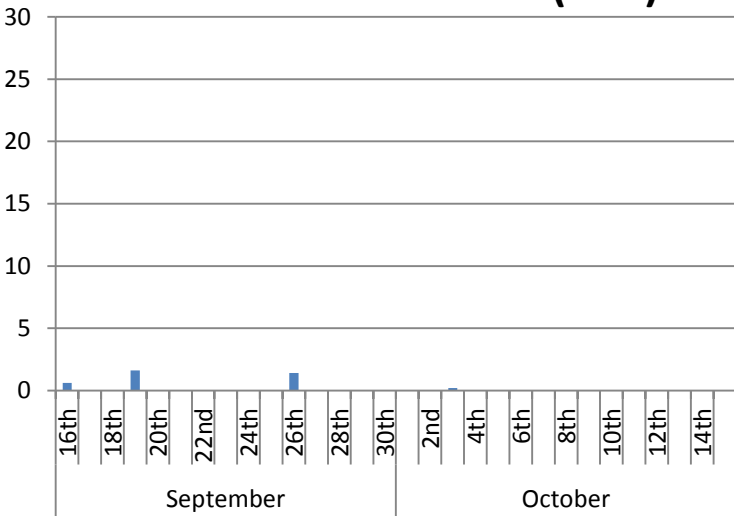
Minlaton New NoTill Moisture (%)



Minlaton New NoTill Nitrogen (kg/ha)

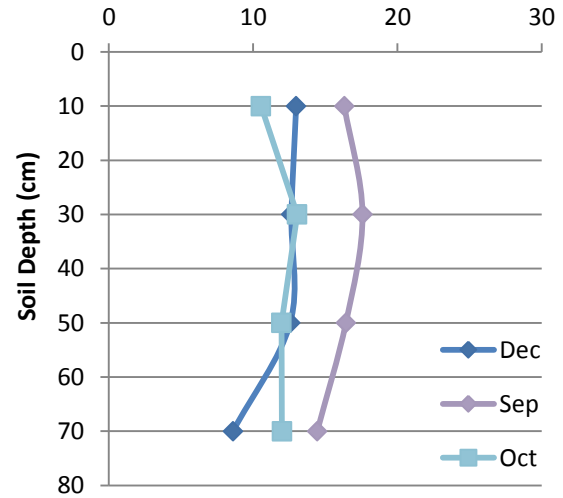


# Prior Months Rainfall (mm)

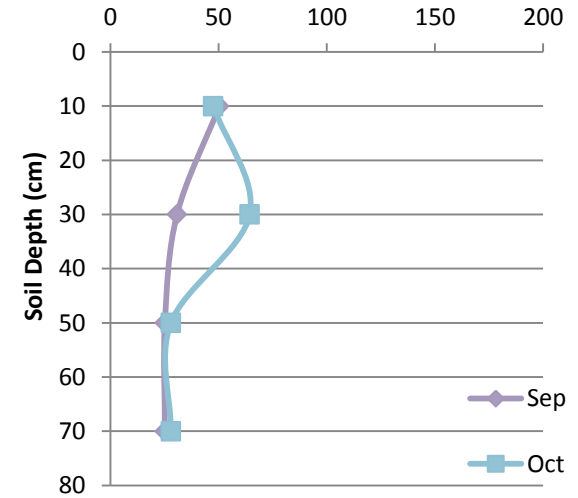


# October

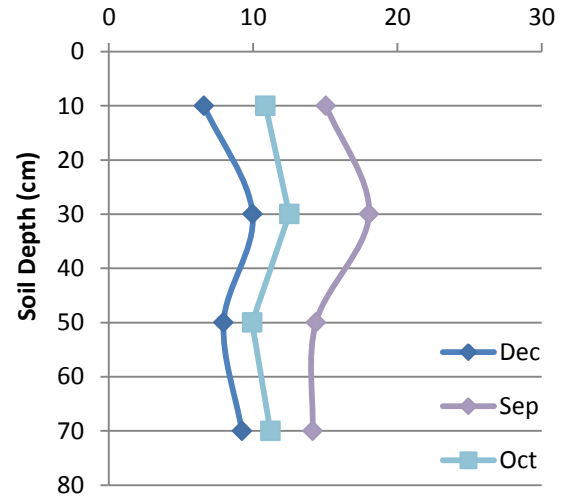
### Minlaton Longterm NoTill Moisture (%)



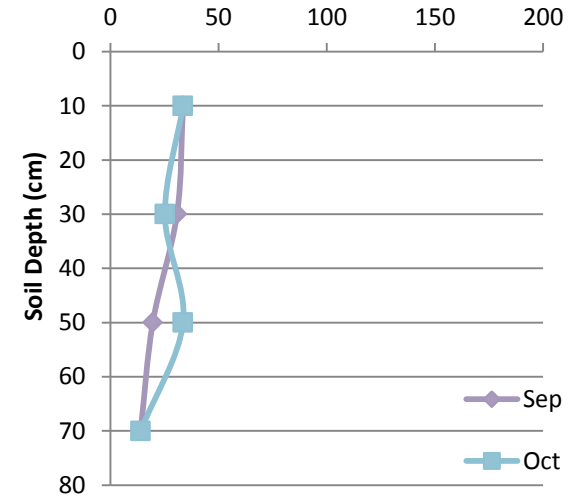
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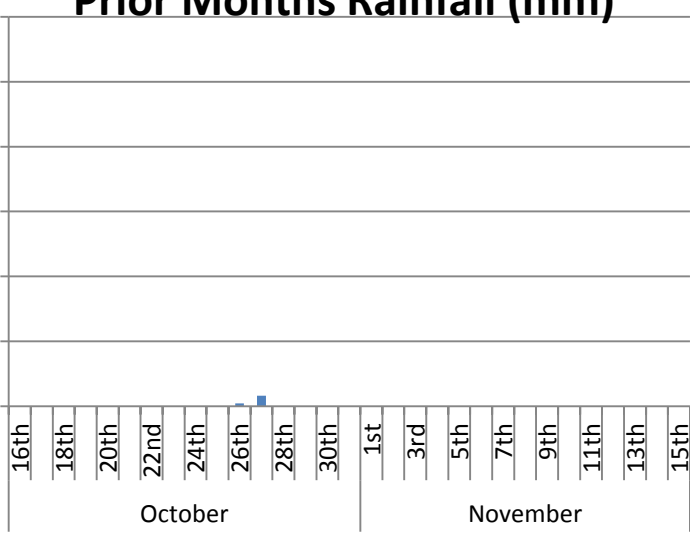
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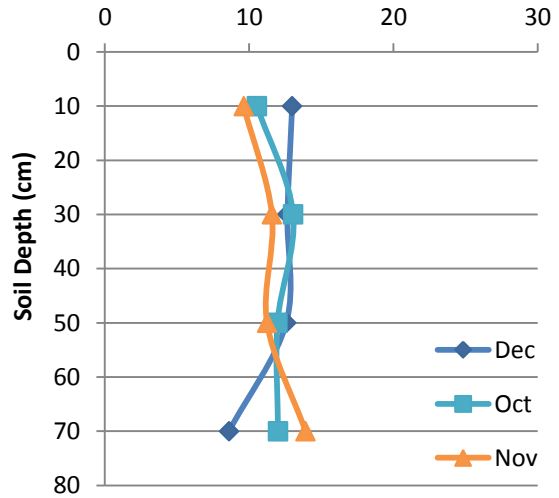


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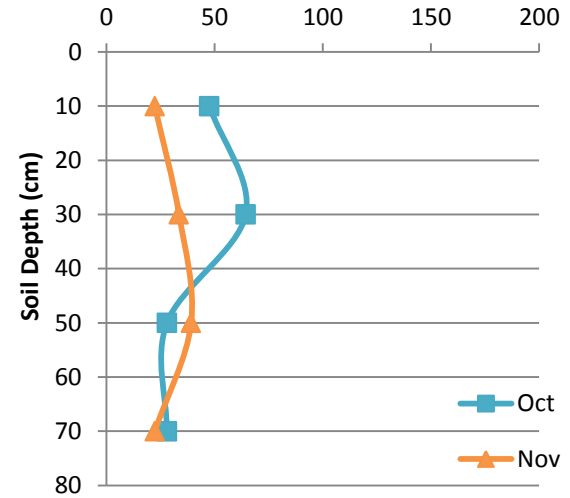


# November

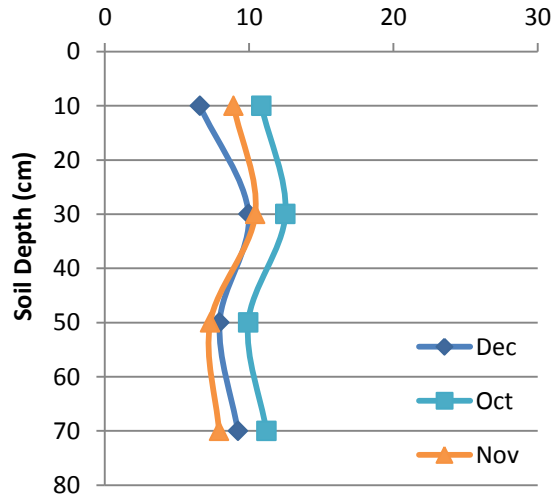
Minlaton Longterm NoTill Moisture (%)



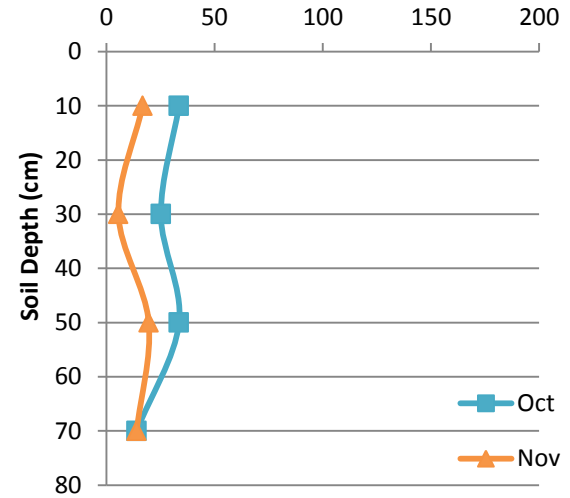
Minlaton Longterm NoTill Nitrogen (kg/ha)



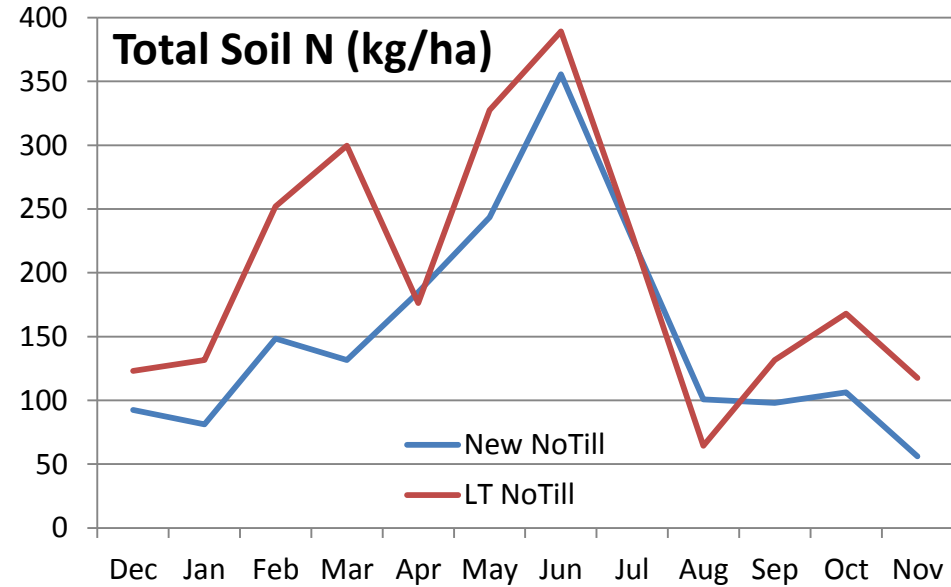
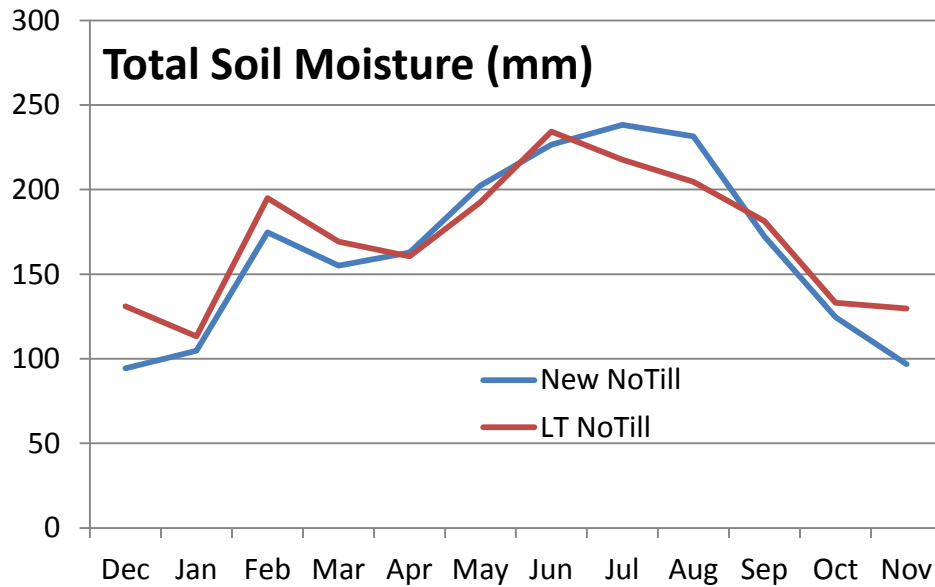
Minlaton New NoTill Moisture (%)



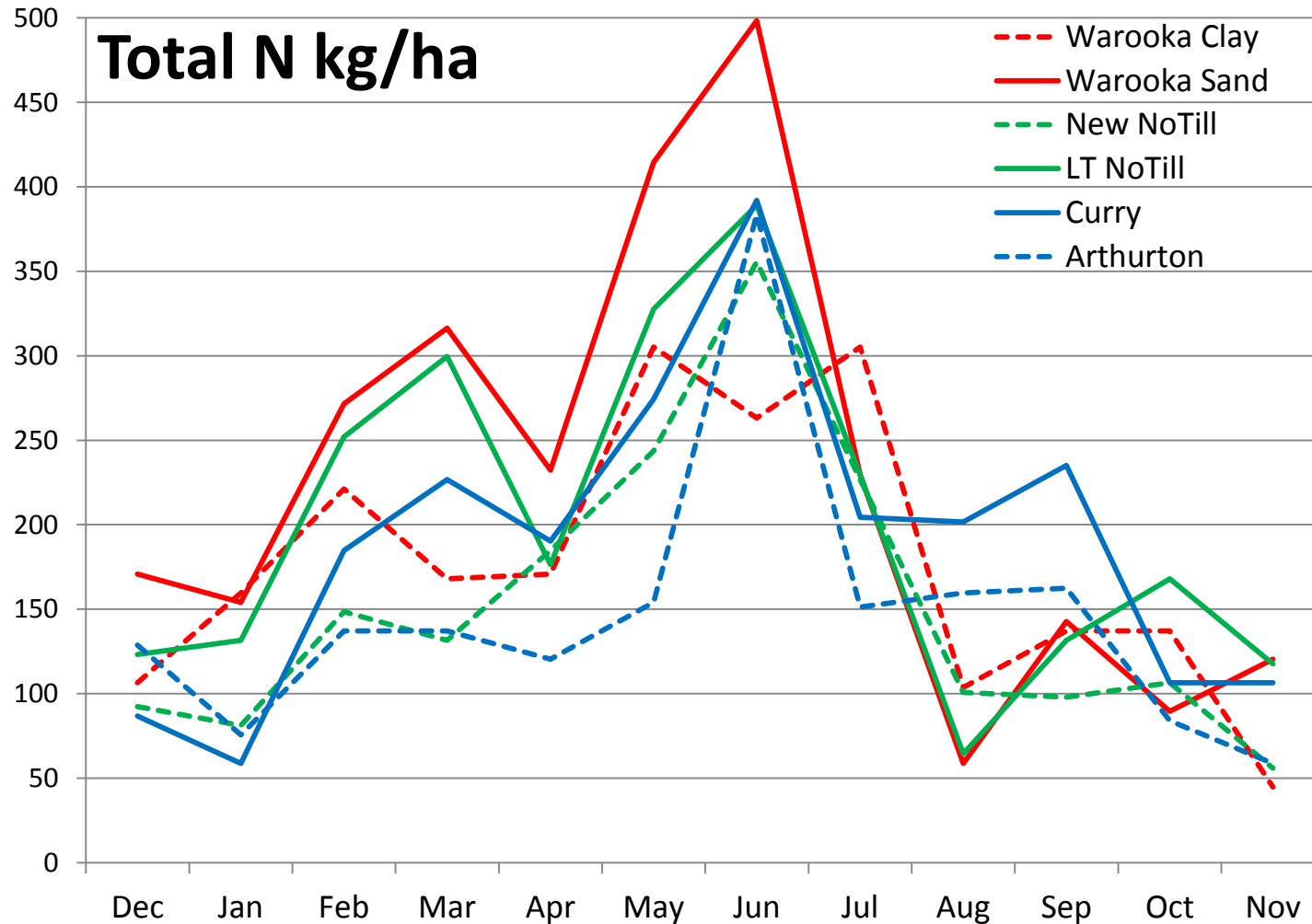
Minlaton New NoTill Nitrogen (kg/ha)



# Looking over the Season



# Comparing All Sites





# Current Issues for YPASG

- Annual Harvest Dinner
- Range in focus across the membership
  - ‘Lentil’ Farmers
  - ‘Traditional’ Continuous Croppers
  - ‘Mixed’ Farmers
  - ‘Livestock’ Focused Farmers