

EH GRAHAM CENTRE for Agricultural Innovation

CHARLES STURT UNIVERSITY

An alliance between Charles Sturt University and Industry & Investment NSW

NSW Industry & Investment

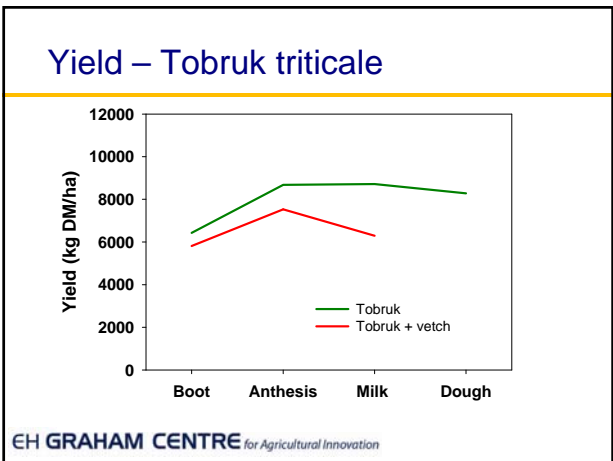
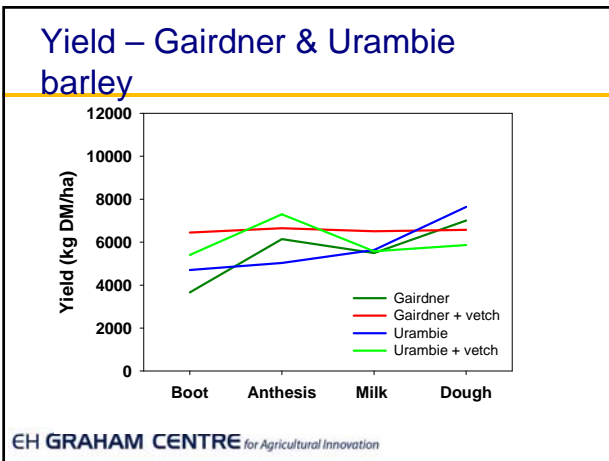
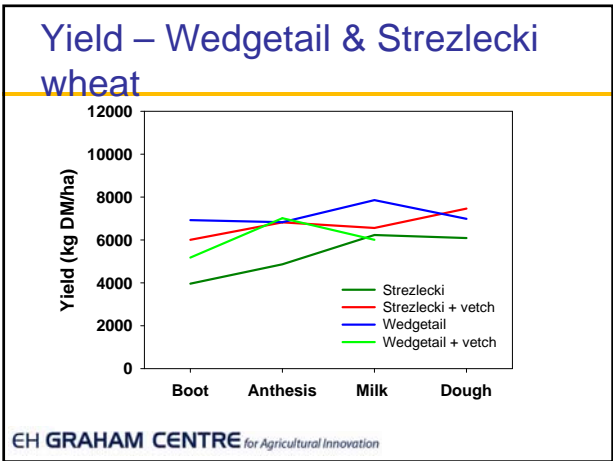
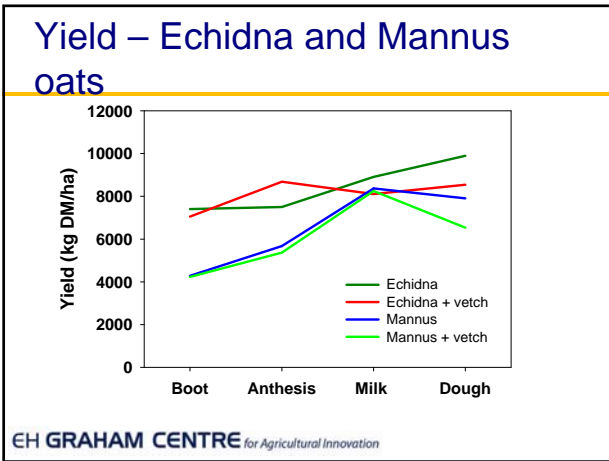
Forage crops for hay and silage

Lessons from Culcairn 2009
John Piltz, Craig Rodham and Janet Walker

Plot experiment at Culcairn 2009

- 7 cereal varieties - Strezlecki & Wedgetail wheat, Gairdner & Urambie barley, Tobruk triticale, Mannus & Echidna oats.
- Grown alone or with popany vetch
- Harvested at boot, flowering, milk and dough stage
- Yield, Metabolisable Energy and Crude Protein content determined

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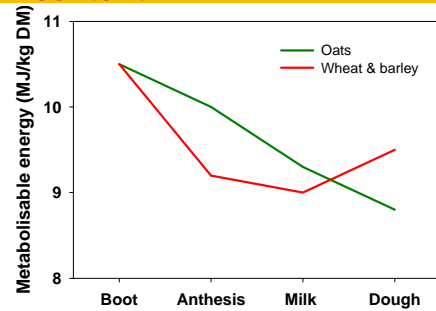


Conclusion

- When crops are moisture stressed the increase in yield with advancing maturity is less than expected or not at all

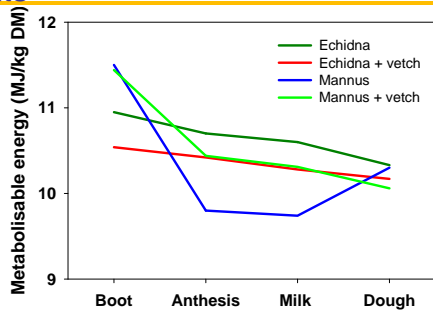
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Expected change in ME content



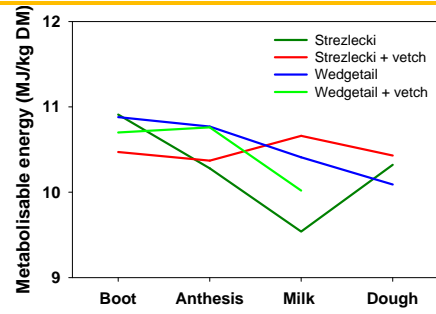
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ME content – Echidna & Mannus oats



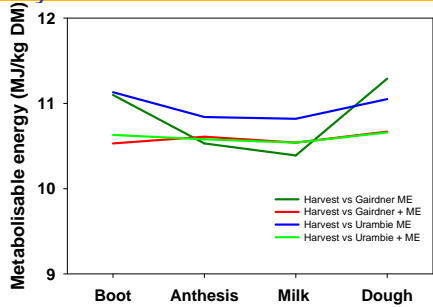
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ME content – Wedgetail & Strezlecki wheat



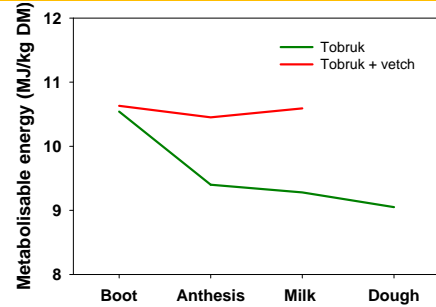
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ME content – Gairdner & Urambie barley



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ME content – Tobruk triticale



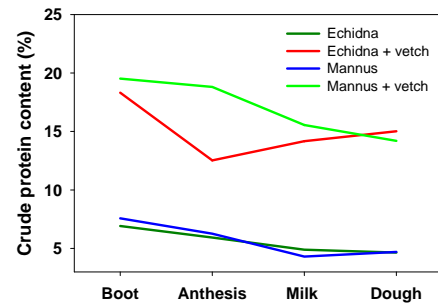
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Conclusions

- ME content was higher than expected; particularly for later harvests of some varieties
- The change in ME content with advancing maturity was variable

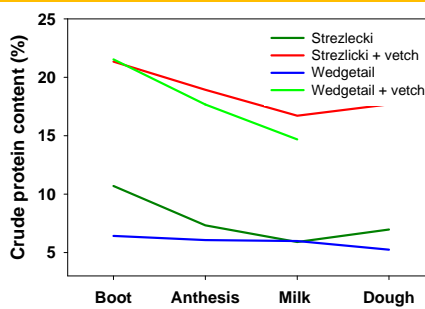
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Protein content – Echidna & Mannus oats



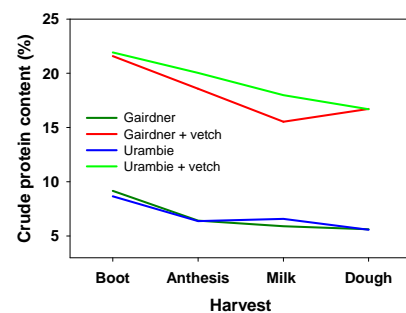
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Protein content – Wedgetail & Strezlecki wheat



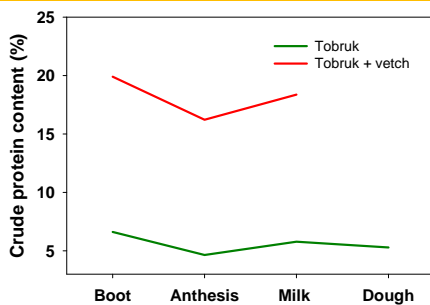
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Protein content – Gairdner & Urambie barley



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Protein content – Tobruk triticale



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Conclusions

- Crude protein content declined with maturity
- Cereal/vetch crops had significantly higher crude protein content than cereal only crops

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