# Hamleigh #1 Enhanced Efficiency Fertiliser (EEF) Demonstration Site
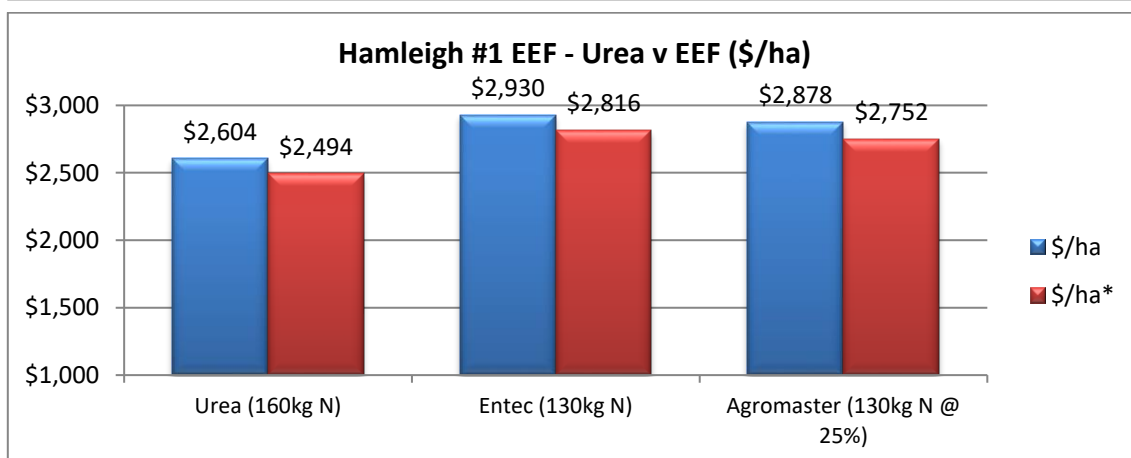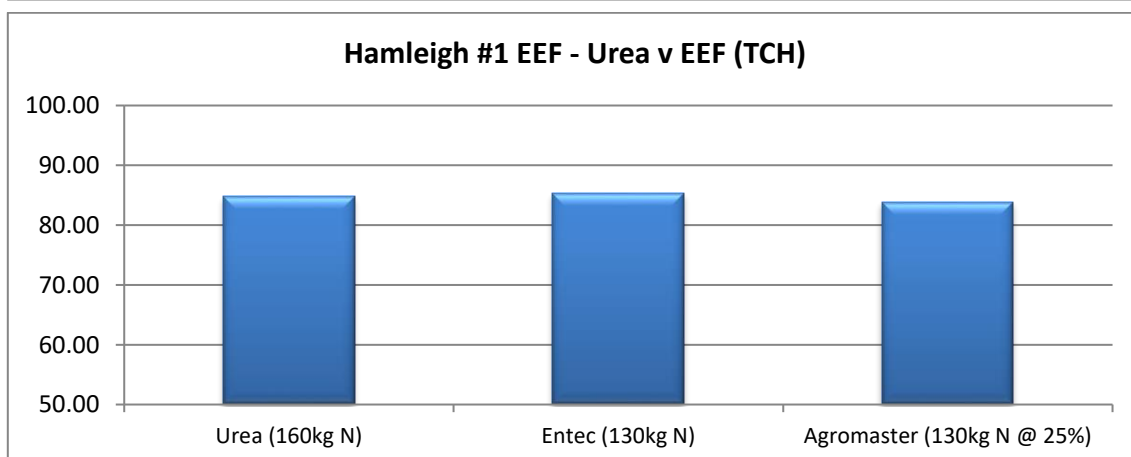
Crop Productivity (2017) – N Rate

The following three charts compare urea applied at a high N rate (180kg/ha) with the maximum amount of N allowed under the 6ES guidelines (160kg/ha) during the 2017 harvest season. In summary, the results indicate that there was no significant difference between either treatment and therefore the extra urea applied was not warranted.

Hamleigh #1 EEF - 6ES v High N (CCS & TSH)

Hamleigh #1 EEF - 6ES v High N (TCH)

Hamleigh #1 EEF - 6ES v High N ($/ha)
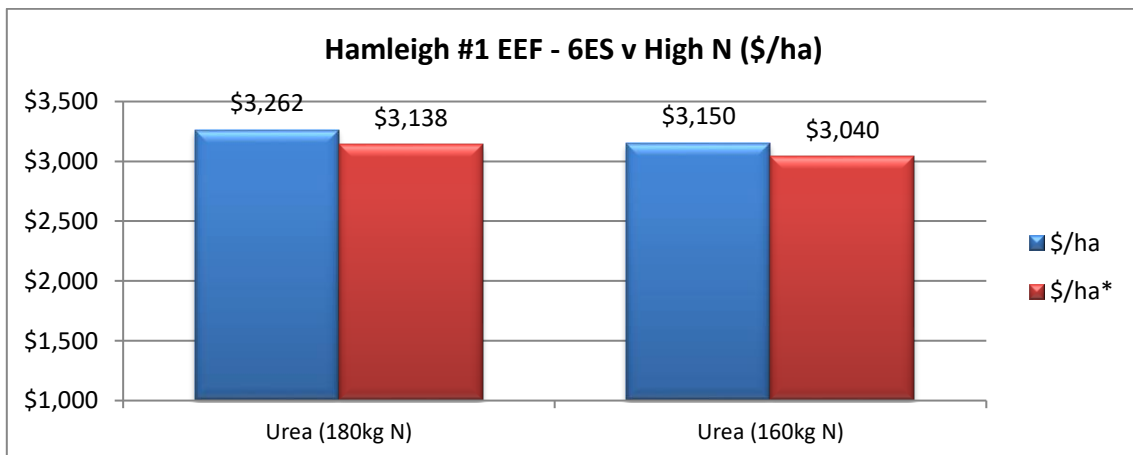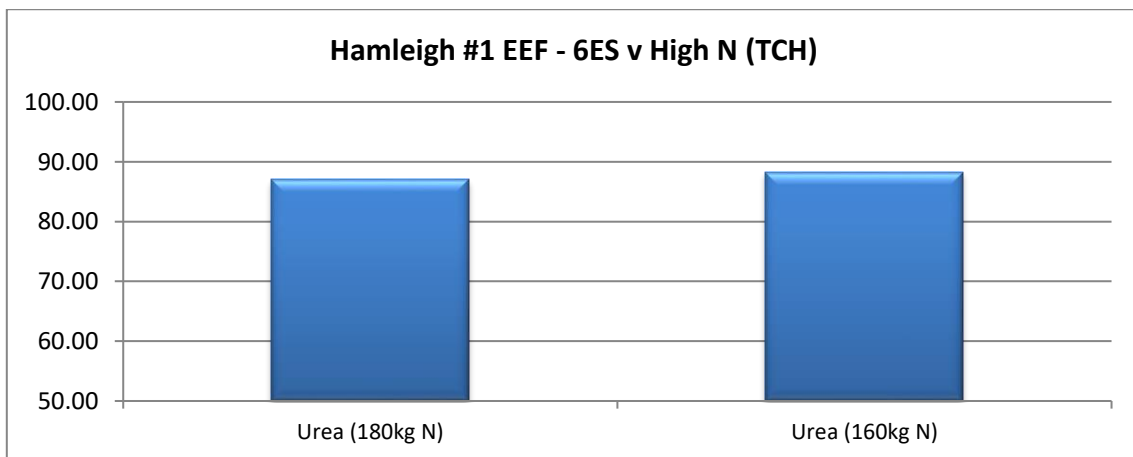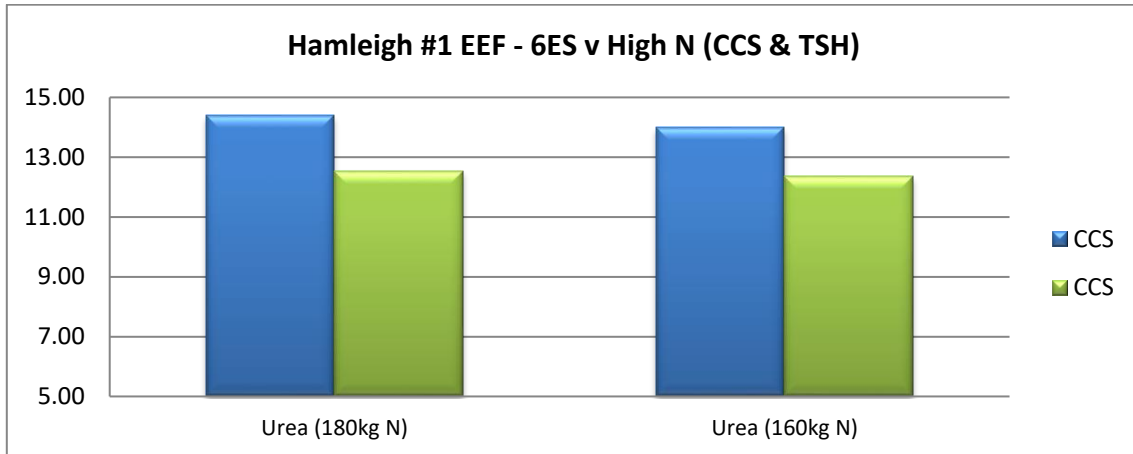
Crop Productivity (2017) – N Rate & Product

The next three charts compare 160kg N/ha, applied as urea, with a reduced rate of N (130kg/ha) applied using two different EEF products; Entec® urea and Agromaster® / urea blend (25% / 75%). While there was no difference in TCH, there was a slight difference in CCS.

When compared at similar application rates EEF products are more expensive to apply. In this situation however, by reducing the N rate by 30kg/ha, the cost of application of all three treatments were similar. This resulted in an increased financial return for both EEF product treatments; due primarily to higher CCS.
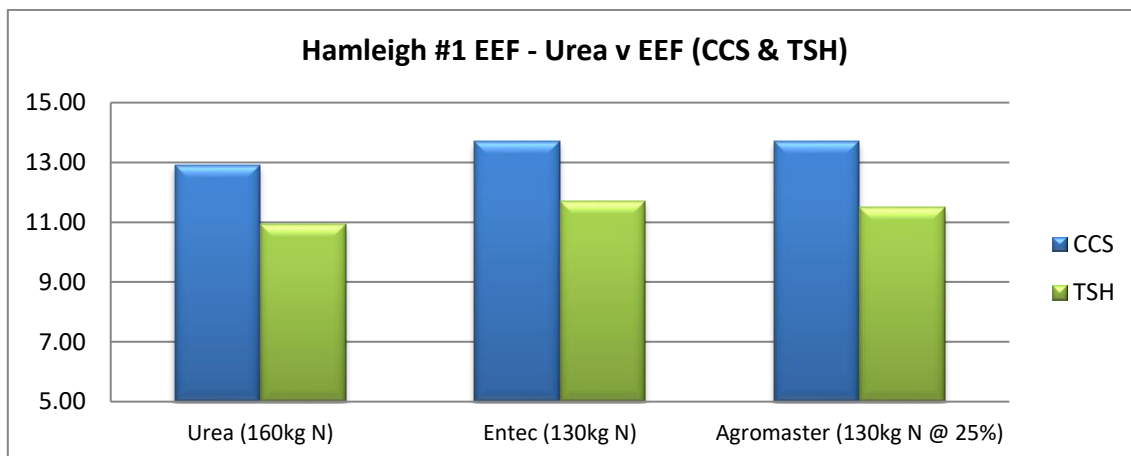
Hamleigh #1 EEF - Urea v EEF (CCS & TSH)

Hamleigh #1 EEF - Urea v EEF (TCH)

Hamleigh #1 EEF - Urea v EEF ($/ha)

NOTES:
- $/ha calculated on $500/t sugar price and $9.90 harvesting and levies.
- $/ha***** = less cost of N applied
- Urea Price = $690/t
- Agromaster® / Urea (25% / 75%) = $970/t
- Entec® = $880/t

Economic Return (2015 – 2017)

The Hamleigh #1 demonstration site was conducted over three harvest seasons (P – 2R). The chart below looks at a basic return on investment of applied N comparing 160kg N/ha applied as urea against 130kg N/ha applied using two EEF products; Entec® urea and Agromaster® / urea blend (25% / 75%).

Using the urea treatment as the base comparison, there was a significant return on investment in favour of the Entec® and Agromaster®/urea EEF products over the three-year period.
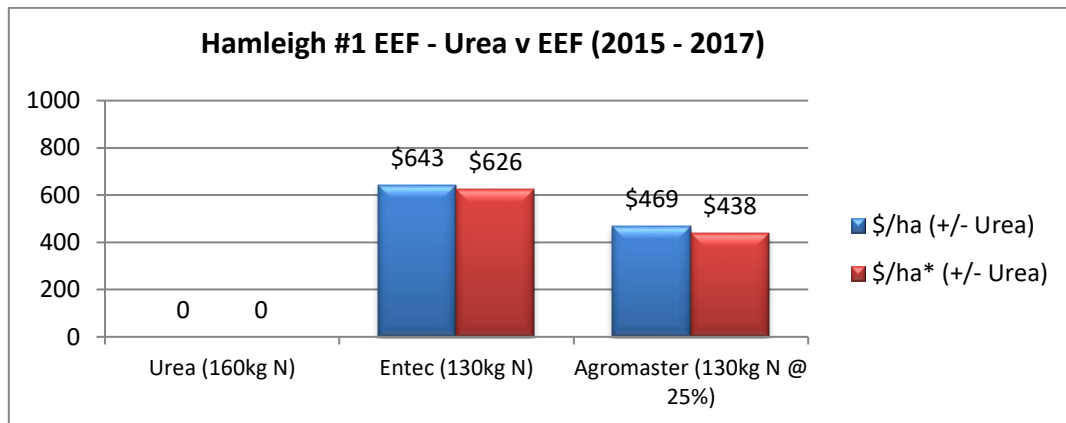
NOTES:

- $/ha calculated on $500/t sugar price and $9.90 harvesting and levies.
- $/ha* = less cost of N applied
- Urea Price = Varied from year to year (between $600/t-$690/t)
- Agromaster® / Urea (25% / 75%) = Varied from year to year ($950/t - $970/t)
- Entec® = Varied from year to year ($800/t - $880/t)