



EIP WALES

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Collaborating for rural success

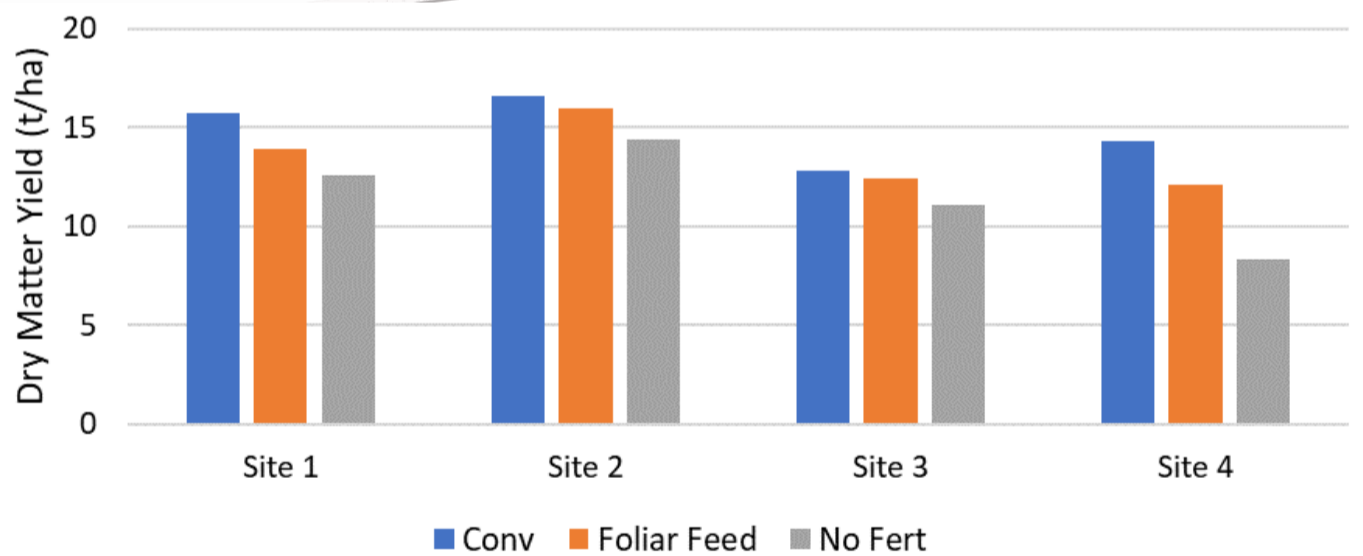


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Foliar Feed for Grassland

Are liquid foliar feeds, based on urea and humic acid, more efficient than standard prilled nitrogen fertilisers?

- **The trial sites:** Four dairy farms in Pembrokeshire and Ceredigion. On each farm one large field has been split into three sections of equal size
- **The treatments:**
 1. Standard prilled nitrogen (N) application (125 kg/Ha of product)
 2. Foliar feed, at three-week intervals during the grazing season (20 kg/Ha of product)
 3. Control of no nitrogen
- **The data:** Dry matter (DM) yield measured every week from March to October
- **Story so far:** DM yield was highest for prilled fertiliser, lowest for the control of no fertiliser and approximately midway between the two for foliar feed



N use efficiency (increase in DM yield compared to the no fertiliser plots per kg of N applied) is more than twice as high for foliar feed compared to standard fertiliser application.

| Site | Conventional plots | | | Foliar feed plots | | |
|------|-------------------------|--------------------------|---|-------------------------|--------------------------|---|
| | Total N applied (Kg/Ha) | Additional Yield (Kg/Ha) | Additional yield per Kg of N applied (Kg DM/Kg N) | Total N applied (Kg/Ha) | Additional Yield (Kg/Ha) | Additional yield per Kg of N applied (Kg DM/Kg N) |
| 1 | 250 | 3100 | 12.4 | 46 | 1300 | 28.3 |
| 2 | 250 | 2200 | 8.8 | 64 | 1600 | 25.0 |
| 3 | 212 | 1700 | 8.0 | 72 | 1300 | 18.1 |
| 4 | 268 | 6000 | 22.4 | 72 | 3800 | 52.8 |



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