



a dual purpose oat with excellent grain recovery after grazing and superior feed grain quality

- substantially better feed grain quality than Eurabbie
- low lignin husk
- winter growth habit
- mid maturity
- better disease resistance than Eurabbie

Adaptation

Mannus[®] is suited to the slopes, lower tablelands and inner plains of New South Wales as a dual purpose grazing and grain, or a grazing only oat.

It's winter habit means it can be sown from early March onwards and will not run prematurely to head, remaining in a relatively low fibre, high quality grazing stage for a long period.

With well managed grazing, Mannus[®] will give high grain yield. It is intended as a grazing variety and will lodge at high yields when ungrazed.

Breeding and naming

Mannus[®] (MA5488) was bred by NSW Department of Primary Industries, Temora. It combines winter habit and low lignin husk and medium height, leaf and stem rust resistance.

Varietal characteristics

| Cultivar | Early dry matter production | Grain recovery after grazing | Straw strength after grazing | Grain maturity | Test weight | Grain husk lignin | Rust (leaf and stem) | BYDV |
|---------------------|-----------------------------|------------------------------|------------------------------|----------------|-------------|-------------------|----------------------|------|
| Mannus [®] | medium | excellent | good | mid | high | low | MS | MS |
| Bimbil | medium | excellent | good | early-mid | high | low | S | MS |
| Blackbutt | slow | excellent | good | late | low-medium | medium | S | MT |
| Cooba | medium | excellent | fair | early-mid | high | low | S | MT |
| Eurabbie | quick | excellent | very good | late | low-medium | low | S | VS |
| Yarran | medium | moderate | good | early | high | low | S | VS |
| Yiddah [®] | slow | excellent | good | early | high | low | MR | MT |

Disease resistance: VS-very susceptible; S-susceptible; MS-moderately susceptible; MR-moderately resistant; R-resistant; MT-moderately tolerant

dual purpose feed oat • dual purpose feed oat

Mannus[®] is named after the locality near the southern NSW town, Tumbarumba, where much of the later stage assessment and selection of oat cultivars is undertaken.

Management

To maximise grazing and grain recovery:

- sow from early March at a higher sowing rate than grain only oats
- introduce stock when plants have reached ground cover and are well anchored
- avoid extended grazing through cold, wet conditions as this will inhibit grain recovery
- remove stock when head formation is detected
- avoid over-grazing and/or late grazing to maximise grain yield recovery

Performance • dry matter

Dry matter production of Mannus[®] is similar to other dual purpose oat varieties currently grown in NSW.

Performance • grain recovery

Mannus[®] has good grain recovery when grazing is well managed. Grain recovery is equivalent to Eurabbie and superior to other dual purpose oat varieties in most environments.

When late sown and ungrazed, Mannus[®] yield potential is slightly lower than Eurabbie (96%), similar to Yarran.

Performance • grain quality

Mannus[®] has excellent quality feed grain, consistently superior to Eurabbie, and characterised by:

- low lignin husk (highly digestible)
- large, uniform grain size

- high groat percentage
- high test weight
- medium protein and fat content

Disease status

Mannus[®] has demonstrated a level of field resistance to both leaf and stem rust at Temora, NSW.

Barley Yellow Dwarf Virus (BYDV) is transmitted by aphids. It is a potentially damaging disease of early sown dual purpose oats, which are sown when weather conditions are warm and aphid numbers are often high. Mannus[®] is moderately susceptible to BYDV, but is an improvement on Eurabbie and Yarran which are very susceptible.

Mannus[®] is tolerant Wheat Streak Mosaic Virus.

Dry matter and grain recovery (% Bimbil) Tablelands/slopes (2004–2007)

| Cultivar | 1st Grazing | 2nd Grazing | Grain recovery |
|---------------------|-------------|-------------|----------------|
| Bimbil | 2.03 t/ha | 2.26 t/ha | 1.97 t/ha |
| Mannus [®] | 101 | 97 | 109 |
| Blackbutt | 103 | 101 | 110 |
| Eurabbie | 115 | 110 | 133 |
| Yiddah [®] | 107 | 114 | 90 |

Dry matter and grain recovery (% Bimbil) Slopes/plains (2004–2007)

| Cultivar | 1st Grazing | 2nd Grazing | Grain recovery |
|---------------------|-------------|-------------|----------------|
| Bimbil | 1.94 t/ha | 2.15 t/ha | 2.39 t/ha |
| Mannus [®] | 98 | 111 | 101 |
| Eurabbie | 115 | 119 | 122 |
| Yarran | 104 | 96 | 112 |
| Yiddah [®] | 108 | 121 | 99 |

For seed supply and further information please contact your local Waratah Seed Company Ltd. member or go to www.waratahseeds.com.au



NSW DEPARTMENT OF
PRIMARY INDUSTRIES

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