# Grasslands® Request Perennial Ryegrass

## Agrinote

## "Early production and summer quality"

- Available with **AR37** and **AR1** novel endophytes
- Mid heading diploid perennial (0 days)
- Very low aftermath heading, returning to leaf production by summer
- Very good spring, autumn and winter production for its type

| PLOIDY | SUGGESTED SOWING RATE (kg/ha) | HEADING DATE | ENDOPHYTE | RUST TOLERANCE |
|---|---|---|---|---|
| Diploid | 18-20 | Mid (0) | **AR37** & **AR1** | Good |

## Background

**Request** is a recently commercialised high performance mid heading diploid perennial. **Request** has high yield potential, with strong autumn growth often only seen in late heading ryegrasses. **Request** produces strongly through the spring season, typical of mid heading ryegrasses. **Request** is a very leafy summer grass with low aftermath heading, returning to vegetative production early in summer.

Over the last few years the entire dairy industry appears to have moved to late heading ryegrasses. This has brought with it an increase in total production associated with late spring, summer, autumn and winter yield. Late heading ryegrasses also help maintain spring pasture quality all the way up to December as they don't seed until late November.

In general, late heading ryegrasses and the improved spring quality can come at a price. This being the loss of the September and October flush capable from mid heading ryegrasses associated with their seed head development.

## Key Tips

- The relative spring advantage of **Request** is often larger in cooler environments
- To manage pasture quality in spring **Request** should be intensely grazed in mid-October and be on a fast return for the next grazing round in early November

- **Request** is an ideal option for early silage production where it would benefit from higher sowing rates (6 kg/ha) of **Relish** red clover in the pastures mix

## Suggested Mixes

### DAIRY PASTURE EXAMPLE MIX

| | RATE (kg/ha) |
|---|---|
| **Request AR37** or **AR1** perennial ryegrass* | 20 |
| Mainstay white clover | 3 |
| Tribute white clover | 2 |
| **TOTAL** | **25** |

### SHEEP & BEEF PASTURE EXAMPLE MIX

| | RATE (kg/ha) |
|---|---|
| **Request AR37** or **AR1** perennial ryegrass* | 18 |
| Tribute white clover | 5 |
| Relish red clover | 4 |
| Choice chicory | 2 |
| Tonic plantain | 1 |
| **TOTAL** | **30** |

* It is not advisable to mix AR37 and AR1 varieties. AR1 is not recommended for areas where black beetle, porina or root aphid are common problem pests. Grass seed should be Superstrike® treated where Argentine stem weevil, black beetle or grass grub are a risk to seedlings. For more information on AR37 endophyte, visit ar37.co.nz.

For information on **Request's** performance in the Forage Value Index from DairyNZ see www.dairynz.co.nz/fvi.

**AGRICOM**
Pastures for Profit®

## Production Data

Agricom values individual trials that are undertaken New Zealand wide and the data they provide. For us, while the results may have statistical limitations, they deliver invaluable information on the basis of the specific locations and conditions in which they are undertaken, especially from the experiences and anecdotal feedback received.

Multiple trial summaries offer a level of confidence that a result will be repeated. It is important to be aware that the number of trials a cultivar is summarised in relates to the confidence you can have that the data summary will not change with the addition of extra trials. Cultivars summarised from a least 8-10 trials are less likely to change than ones summarised from 3-4 trials.

**Request** is one of the few traditional mid heading ryegrasses that compete with modern late heading ryegrasses for total yield (Table 1). Request exhibits strong performance in early spring, late spring, summer and autumn. Request is outstanding for early spring growth (Table 1 Early Spring).

**Table 1: NFVT Summary 1991 – 2016 (August 2016) Perennial Ryegrass: All New Zealand trials (yields by season as percentage of mean)**

| ENTRY | NUMBER OF TRIALS | WINTER | | EARLY SPRING | | LATE SPRING | | SUMMER | | AUTUMN | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | % of Mean | LSI | % of Mean | LSI | % of Mean | LSI | % of Mean | LSI | % of Mean | LSI | % of Mean | LSI |
| Trojan NEA2 | 14 | 116 | 3.3 | 108 | 2.9 | 106 | 2.6 | 110 | 3.0 | 106 | 3.5 | 108 | 2.4 |
| Base AR37 | 9 | 113 | 4.0 | 103 | 3.4 | 104 | 3.2 | 109 | 3.6 | 112 | 4.1 | 108 | 2.9 |
| One50 AR37 | 22 | 112 | 2.7 | 98 | 2.3 | 101 | 2.1 | 111 | 2.5 | 114 | 2.8 | 107 | 1.9 |
| Excess AR37 | 4 | 114 | 5.8 | 101 | 5.0 | 103 | 4.6 | 109 | 5.3 | 108 | 6.0 | 106 | 4.2 |
| Arrow AR1 | 13 | 108 | 3.4 | 108 | 2.9 | 105 | 2.7 | 105 | 3.1 | 105 | 3.5 | 106 | 2.4 |
| Alto AR37 | 16 | 110 | 3.1 | 104 | 2.7 | 103 | 2.5 | 106 | 2.8 | 108 | 3.2 | 106 | 2.2 |
| **Request AR37** | **8** | **105** | **4.2** | **112** | **3.6** | **101** | **3.4** | **103** | **3.9** | **110** | **4.4** | **105** | **3.0** |
| Prospect AR37 | 10 | 112 | 3.8 | 101 | 3.3 | 101 | 3.0 | 108 | 3.5 | 107 | 4.0 | 105 | 2.7 |
| Ansa AR1 | 4 | 112 | 5.8 | 107 | 5.0 | 103 | 4.7 | 103 | 5.4 | 102 | 6.1 | 104 | 4.2 |
| Ultra AR1 | 16 | 110 | 3.0 | 101 | 2.6 | 101 | 2.4 | 105 | 2.8 | 106 | 3.2 | 104 | 2.2 |
| Matrix SE | 11 | 107 | 3.6 | 104 | 3.1 | 101 | 2.8 | 102 | 3.3 | 105 | 3.7 | 103 | 2.6 |
| One50 AR1 | 19 | 109 | 2.8 | 96 | 2.4 | 99 | 2.2 | 106 | 2.6 | 104 | 2.9 | 103 | 2.0 |
| Alto AR1 | 27 | 105 | 2.4 | 102 | 2.1 | 103 | 2.0 | 103 | 2.2 | 102 | 2.5 | 103 | 1.8 |
| Bealey NEA2 | 26 | 109 | 2.5 | 98 | 2.2 | 100 | 2.0 | 104 | 2.3 | 104 | 2.6 | 102 | 1.8 |
| Halo AR37 | 18 | 106 | 2.9 | 94 | 2.5 | 99 | 2.3 | 106 | 2.7 | 107 | 3.0 | 102 | 2.1 |
| Expo AR1 | 10 | 106 | 3.7 | 103 | 3.2 | 101 | 3.0 | 102 | 3.4 | 100 | 3.9 | 102 | 2.7 |
| Rely AR37 | 4 | 94 | 5.8 | 102 | 5.0 | 101 | 4.6 | 98 | 5.3 | 111 | 6.0 | 102 | 4.2 |
| Expo AR37 | 4 | 104 | 5.8 | 98 | 5.0 | 100 | 4.6 | 101 | 5.3 | 103 | 6.0 | 101 | 4.2 |
| Base AR1 | 3 | 106 | 6.7 | 102 | 5.8 | 103 | 5.4 | 99 | 6.2 | 97 | 7.0 | 101 | 4.8 |
| AberMagic AR1 | 4 | 81 | 5.7 | 95 | 4.9 | 104 | 4.6 | 106 | 5.3 | 99 | 6.0 | 101 | 4.1 |
| Excess AR1 | 3 | 98 | 6.7 | 105 | 5.8 | 99 | 5.4 | 103 | 6.2 | 96 | 7.0 | 100 | 4.8 |
| Samson AR37 | 6 | 100 | 4.7 | 103 | 4.1 | 99 | 3.8 | 94 | 4.3 | 102 | 4.9 | 99 | 3.4 |
| Ohau AR37 | 4 | 99 | 5.8 | 104 | 5.0 | 99 | 4.6 | 96 | 5.3 | 94 | 6.0 | 98 | 4.2 |
| Rohan NEA2 | 5 | 100 | 5.2 | 92 | 4.5 | 96 | 4.2 | 95 | 4.8 | 101 | 5.4 | 97 | 3.8 |
| Bronte AR1 | 4 | 103 | 5.8 | 97 | 5.0 | 98 | 4.7 | 97 | 5.4 | 91 | 6.1 | 97 | 4.2 |
| Samson SE | 17 | 95 | 3.2 | 100 | 2.7 | 96 | 2.5 | 93 | 2.9 | 96 | 3.3 | 96 | 2.3 |
| Stellar AR1 | 8 | 80 | 4.2 | 101 | 3.6 | 96 | 3.3 | 94 | 3.8 | 90 | 4.3 | 94 | 3.0 |
| Nui SE | 27 | 91 | 2.4 | 100 | 2.1 | 95 | 1.9 | 89 | 2.2 | 91 | 2.5 | 93 | 1.7 |
| Pacific SE | 6 | 90 | 5.1 | 100 | 4.4 | 96 | 4.1 | 88 | 4.7 | 91 | 5.4 | 93 | 3.7 |
| AberGreen WE | 3 | 59 | 6.7 | 85 | 5.8 | 100 | 5.4 | 90 | 6.2 | 79 | 7.0 | 87 | 4.8 |
| AberMagic WE | 6 | 58 | 4.9 | 82 | 4.2 | 99 | 3.9 | 85 | 4.4 | 82 | 5.0 | 85 | 3.5 |
| Uncertified LP® | 6 | 85 | 4.8 | 94 | 4.1 | 89 | 3.8 | 79 | 4.4 | 74 | 5.0 | 84 | 3.4 |
| Mean (kg DM/ha) | 81 | 1091 | | 2053 | | 3565 | | 3922 | | 2742 | | 13372 | |

LSI (Least Significant Interval) - If two means differ by more than the sum of their LSI, they are significantly different at the 5% level