

- ◇ Desmanthus was introduced by Government funded Pasture Improvement projects of the 1960-1980s
- ◇ Progardes is a blend of genetically superior Desmanthus cultivars selected and bred by Chris Gardiner & JCU
- ◇ As JCU's Commercial Partner, Agrimix Pastures is focused on helping producers establish legumes for increased profitability

FEATURES & BENEFITS

AGRONOMIC

- Suited to clay rich soils with soil pH neutral to alkaline; Brigalow, Gidgee, Belah and Downs landtypes
- Herbaceous and shrub-like: stem is pithy, edible and nutritious, not woody
- Adapted to a broader range of harsher environments: drought, frost, fire and grazing tolerant
- Does not require mechanical cutting to control height
- Compatible with mixed grass/legume pastures, e.g. Buffel and a range of native grasses
- Non-toxic: No mimosine — No inoculation required and No Bloat
- Not regarded as an environmental weed
- Easily managed with effective grazing strategies: Can be grazed earlier following seeding

ESTABLISHMENT

- Broad range of establishment techniques:
 - ✓ Aerial
 - ✓ Broadcast
 - ✓ Blade plough
 - ✓ Sown into ash bed
 - ✓ Semi to fully cultivated seed bed: Use of Roundup as renovation strategy and conserve soil moisture



Please consult Progardes Establishment Guidelines on our website : <http://www.progardes.com.au/establishment>

- Establishment Costs: Typical Total = \$50/ac or \$125/ha

PERFORMANCE

- Excellent nutrition for livestock
 - ✓ High Crude Protein in leaf, stem, and seed
 - ✓ Good digestibility
 - ✓ Excellent palatability
- Persistent: long-lived through seed production/recruitment
- Productive: Increased live weight gains of +35-40% over Buffel alone
- Broadacre establishment improves whole of paddock performance:
 - ✓ Progardes provides long term increase in dry matter quality and quantity of the overall pasture species, through nutrient cycling and improved C:N soil ratio
 - ✓ Reduces ongoing renovation costs
- Assists with management/reduction of invasive weeds, such as Indian Couch
- Increases profitability





Seedling with moisture seeking taproot



Long tap root - Drought tolerant



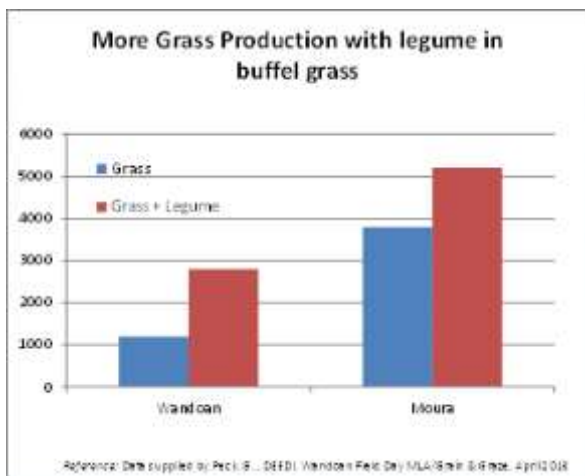
Growing tip below soil level - Grazing, frost, and fire tolerant



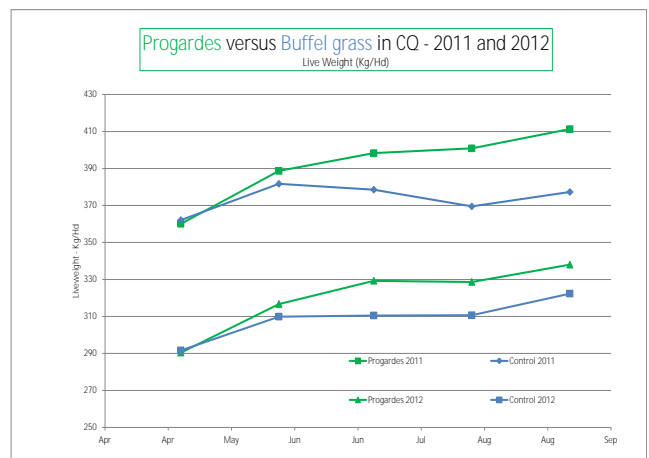
Palatable nutritious stem (12% CP), easily managed by grazing



Heavy seed set, even during drought, provides long term persistence



More grass: Increase paddock profitability with broadacre establishment



Profitability Increase of Progardes + Buffel over Buffel only pasture = +15—35kg/head over 130 days in Winter