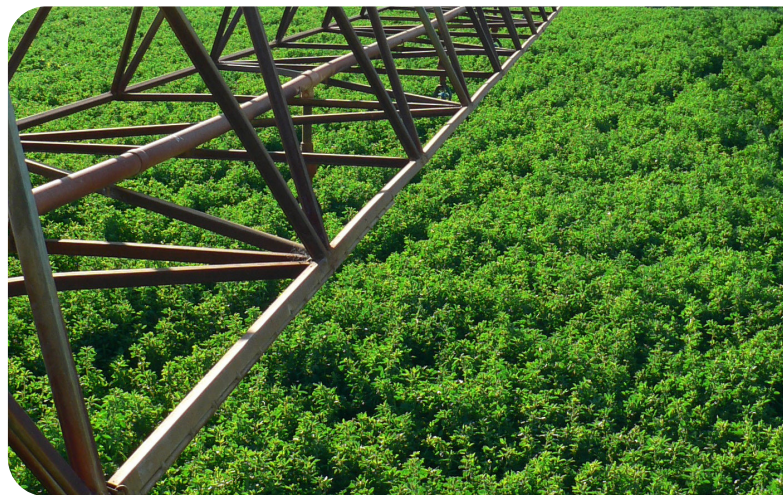


Q31®

LUCERNE
: *Medicago sativa*



Quick Seed Facts



Dormancy

- ⊕ Winter dormant 3

Sowing rate

- ⊕ Dryland: 4-10kg/ha
- ⊕ High rainfall/irrigation: 18-25kg/ha

Suitability

- ⊕ Grazing
- ⊕ Hay
- ⊕ Silage

Grazing tolerance

Low ————— * ————— High

Seed treatment

- ⊕ Goldstrike XLR8®

Q31® lucerne sets the benchmark for hay quality in the Australian market. It is a winter dormant variety with excellent leaf retention and large leaf size. Q31® lucerne is a high-quality option with flexible cutting times. Its increased tillering ability and fine stems make it a perfect option in premium-grade hay, chaff, and silage systems.

FEATURES & BENEFITS

- ⊕ **High leaf-to-stem ratio**
For premium quality hay and silage production
- ⊕ **Winter dormant**
Increased flexibility in cutting times
- ⊕ **Low, broad crown**
Improved tiller production, delivering finer stems and higher quality hay/chaff
- ⊕ **Strong summer production**
Larger and less frequent hay cuts through a critical hay production period, decreasing mechanical traffic and reducing harvest costs

STRENGTHS

- ⊕ Exceptional hay quality
- ⊕ Dual purpose (grazing and hay)
- ⊕ Highly productive
- ⊕ High nutritive value
- ⊕ Increased leaf retention
- ⊕ Leaf shatter resistance post cut
- ⊕ Excellent pest and disease ratings

LIMITATIONS

- Lower levels of winter production when compared to winter active varieties such as Q63

WHERE IT GROWS

Rainfall: Dryland typically requires 500mm to 1200mm annually (subtropics) and 250mm to 800mm annually (southern and western Australia). Irrigation is preferred.

Soils: Q31® lucerne requires deep, well drained soils (sands to moderately heavy clays) with a slightly acid to alkaline pH. It is intolerant of high levels of exchangeable aluminium and periods of waterlogging.

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AlfaGen®
SEEDS

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Plant with
confidence

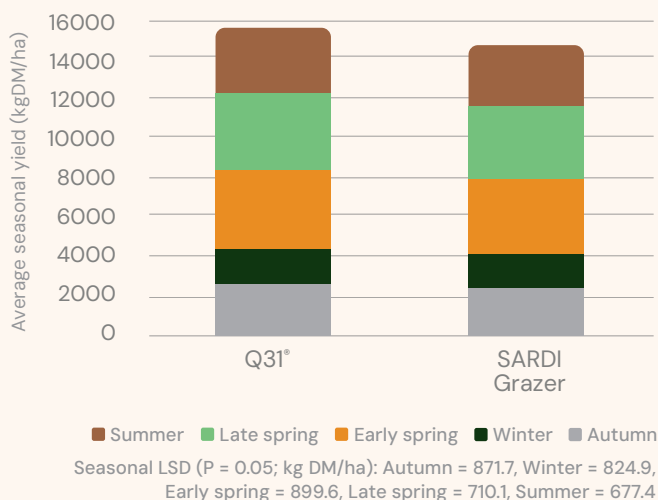
WHERE IT GROWS CONTINUED ...

Temperature: Optimum temperatures for dry matter production range from 15 to 25°C in the day and 10 to 20°C during the night. Lucerne is tolerant of higher temperatures where available soil moisture is present. Q31® is more suitable in cooler climates than other varieties due to its full winter dormancy, reducing frost risk.

DATA

Q31® average total seasonal forage yield.
Multi year, multi site 2016–2026.

Q31® combines excellent seasonal forage production with the persistence, forage quality and stand longevity expected of a dormant lucerne variety. Across the trial Q31® consistently outperformed the commercial check variety Grazer, delivering higher total seasonal forage yield while maintaining the management advantages of reduced winter growth. This dormant growth habit provides greater flexibility for winter grazing and forage conservation, allowing producers to better manage cutting intervals and maintain stand persistence under intensive hay and grazing systems.



Results are based on a Multi-Environment Trial (MET) analysis of forage yield trials conducted across southern and eastern Australia from 2016–2026. Values represent the average total seasonal dry matter production from multiple locations, years and harvests, providing an estimate of long-term varietal performance across the target production region.

ESTABLISHMENT

Performance optimisation or limitations for your soil type can be discussed with your local agronomist.

Sowing time: Early to mid-autumn and early spring. Q31® is a winter dormant variety it is best to try and avoid late autumn/winter sowing period when temperatures fall, or frost is likely.

Sowing depth: 5mm–15mm, into a prepared soil bed. Good seed to soil contact is required.

Seed treatment: Goldstrike® treated seed comes inoculated with the correct rhizobia required to infect the root system for optimum nitrogen fixation by the plant.

COMPANION SPECIES

- ⊕ Forage cereals
- ⊕ Pasture grasses
- ⊕ Pasture legumes
- ⊕ Forage herbs & brassica
- ⊕ Tropical grasses

MANAGEMENT

Maintenance fertiliser: Maintenance fertiliser needs to be applied regularly in irrigated lucerne where large quantities of nutrient are removed in hay. Based on a soil test, nitrogen, potassium, phosphorus, calcium and sulphur levels need to be maintained for optimum dry matter production. Performance optimisation or limitations for your soil type can be discussed with your local agronomist.

Grazing/cutting: Cutting for hay is best done at 10% flower or when the basal shoots are 3–5cm in length. Typically, an irrigated stand of Q31® has a cutting rotation of 38–42 days during peak hay production periods. Rotational grazing for long term persistence is recommended, whether grown as a pure stand or in mixed swards. Set stocking or continuous grazing into the crown of the plant is detrimental to lifespan of the plant. Performance optimisation or limitations for your enterprise can be discussed with your local agronomist.

Ability to spread: Low. Lucerne is usually cut or grazed before seed matures. If lucerne seed is dropped or spread by livestock, it rarely establishes effectively.

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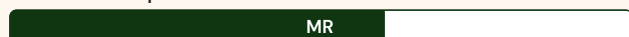
MANAGEMENT CONTINUED ...

Pest and disease ratings:

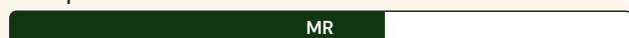
Spotted alfalfa aphid



Blue Green Aphid



Pea aphid



Phytophthora root rot



Anthraxnose



Bacterial wilt



Fusarium wilt



Stem nematode



Root knot nematode



Pest & disease rating scale:

High resistance	(HR)	=	> 50%
Resistance	(R)	=	31-50%
Moderate resistance	(MR)	=	15-30%
Low resistance	(LR)	=	7-14%
Susceptible	(S)	=	0-6%

Herbicide susceptibility: Herbicides for post emergence and pre-emergence of broadleaf and grass control are available. Consult your local agronomist for herbicide options. Always check label before herbicide use. Best sown into weed-free paddocks.

ANIMAL PRODUCTION

Feeding value: Q31® lucerne is highly digestible, a reliable source of crude protein and has high levels of metabolisable energy. It is well suited to farmers focused on animal performance, total feed production and pasture persistence.

Palatability: Very palatable.

Livestock disorders/toxicity: Bloat, nitrate poisoning and red gut. To minimise risks of cattle bloat, nitrate poisoning and red gut, do not graze immature/lush lucerne, especially with hungry stock.



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