DLF Seeds

SEEDS & SCIENCE

NEW EDISON SUB CLOVER

More feed from improved forage yields and strong disease package

Edison is an Australian bred, subterranean clover (*Trifolium subterraneum*), bred to be an improvement on Leura, Denmark and Rosabrook. Edison's **vigorous winter and early spring growth**, makes it an ideal candidate for hay and silage production. And, with a leafy growth pattern and the ability to **rapidly recover from grazing, Edison provides valuable feed** for both sheep and cattle grazing systems.

As a fast establishing, high production clover, it effectively competes with other species within the pasture mix to produce valuable feed throughout winter and late spring (when other species may become dormant).

With a similar flowering date to Leura, **Edison features superior field performance and low formononetin levels, making it safe for grazing animals by reducing the risk of infertility problems.**

Edison thrives particularly well in the southern states of Australia where high winter/spring rainfall is followed by a summer dry. Well adapted to moderately acidic, well-drained soils, Edison can be sown into permanent or semi permanent pastures for improved legume density and feed diversity.

- Exceptional winter and spring production
- High seedling regeneration
- Contains low formononetin levels
- Greater resistance to clover scorch and powdery mildew
- Fast establishment and increased cool season growth

Autumn sown in:
WA, SA, VIC, NSW, TAS

ALBA Edison
Subterranean Clover

Edison

SUBTERRANEAN CLOVER

NEW

Sowing rate	Days to flower	Soil fertility	Rainfall/Irrigation	Suitable for
6-10kg/ha (mixed) 15-20kg/ha (sole)	150 days*	Med/high	Minimum 650mm p.a	

*Edison has demonstrated similar "days to first flower" as Leura based on an early May sowing in Perth, Western Australia.

Insect resistance

Moderate resistance to RLEM at cotyleton stage (higher than Leura and many other late flowering sub clovers on the market).

Disease tolerance

Resistance to clover scorch (*Kabatiella caulivora*) and powdery mildew (*Oidium sp.*).

Monitoring of insect pressure and disease (especially during establishment) should be practiced. Contact your local agronomist for control advice.

Field Performance

Edison has been extensively tested in Australia and across trials, it produced higher autumn/winter and winter/spring biomass; particularly in the third year of regeneration. This is important for the longevity of the sub clover in pasture swards.

FIGURE 1: AVERAGE SEASONAL DRY MATTER PRODUCTION OVER 3 YEARS IN BLAYNEY, NSW (kgDM/ha)

Cultivar	Winter	Spring	Late spring	Summer	Autumn
Edison	**1615**	**1895**	**1333**	**1280**	**829**
Goulburn	1515	1614	1181	962	606
Leura	1286	1425	1396	946	619
Coolamon	1426	1273	1155	911	582
Rosabrook	1030	1693	1262	791	524
Denmark	1112	1634	1276	743	473
	Winter	**Spring**	**Late spring**	**Summer**	**Autumn**
LSD%	183	169	165	179	117

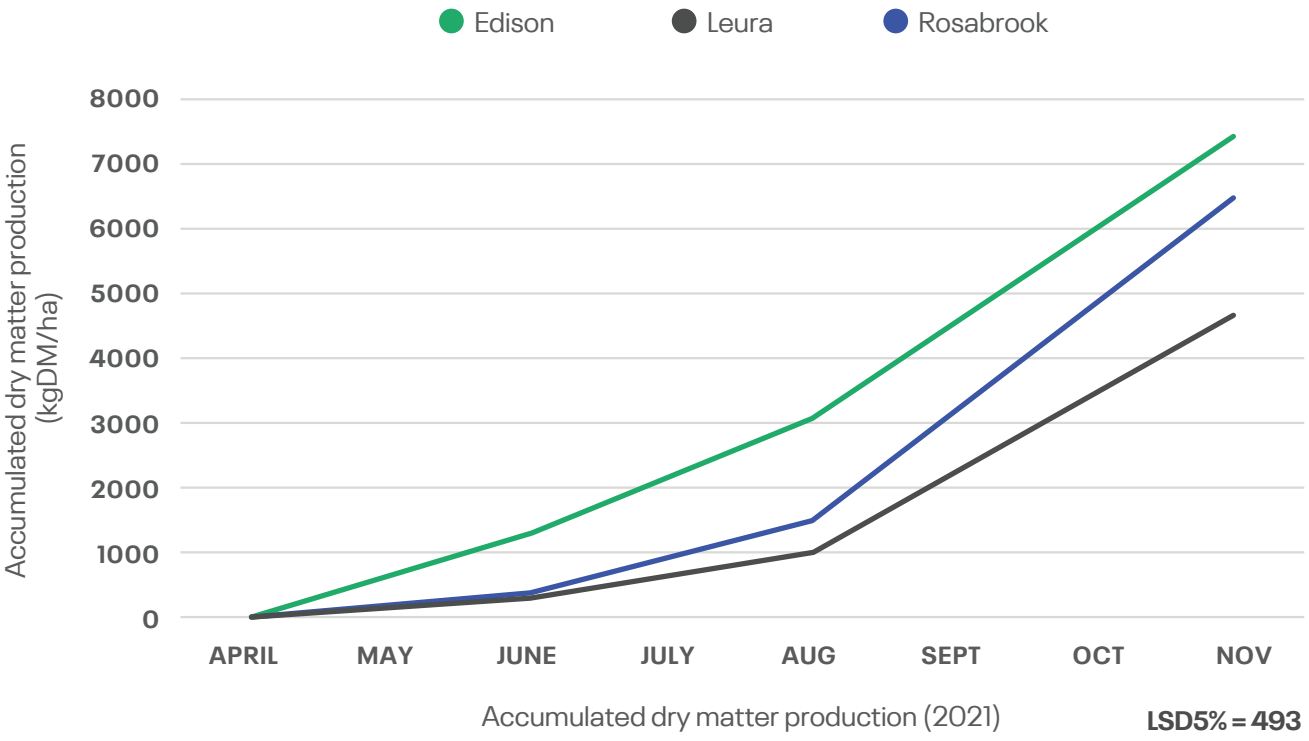
Across 3 years, Edison came in on top producing 6952 kgDM/ha

In Blayney NSW (figure 1), Edison consistently performed well across all seasons holding the highest average yield across four out of five seasons.

- Edison demonstrates that it excels in autumn, winter, and early spring.
- **Notably, its winter yield is 12% higher than that of Goulburn, which has the second-highest average winter yield.**

Edison sub clover bulk up, Western Australia.

FIGURE 2: 2021 ACCUMULATED THIRD YEAR DRY MATTER PRODUCTION OF LATE SUBTERRANEAN CLOVERS, BALLARAT, VIC



In Ballarat, Victoria (Figure 2), **Edison** recorded the highest accumulated dry matter over three cuts in the third year. It outperformed other late flowering subterranean clovers, which demonstrated its exceptional winter and spring production.

Edison displayed a 39% increase in dry matter production over Leura (in the third year).

FIGURE 3: EDISON DAYS TO FLOWER AND DISEASE/INSECT TOLERANCE IN COMPARISON TO OTHER LATE FLOWERING SUBTERRANEAN CLOVERS

	Days to First Flower[a]	Disease Ratings (0-9)		RLEM
Variety	Perth[a]	Kabatiella[b]	Powdery Mildew[c]	% cotyleton area with silvering[d]
Edison	**150**	**1.3**	**2.8**	**15**
Leura	153	4.3	3.1	88
Denmark	151	2.8	5.0	36
Rosabrook	150	2.8	2.0	8
Goulburn	143	1.0	4.0	90
Mt Barker	140	2.8	2.0	62
Coolamon	132	0.5	9.0	80
Tallabrook	175	5.3	2.0	-
Woogenellup	131	7.0	6.0	28

[a] Days to first flowering from an early May sowing in Perth (WA): Mean of 4 years (2017-2020)

[b] Data from field ratings at Manjimup in 2018; 0 = no symptoms, 9 = severe symptoms. Mean of 2 reps

[c] Mean of 2 years ratings (0-9) at Shenton Park; 0 = no symptoms, 9 = severe symptoms

[d] Glasshouse trial in 2021. Values are % cotyledon area with silvering area with silvering 7 days after introduction of RLEM to 14 day-old seedlings. Mean of 4 reps.

Grazing Management

Edison is suited for grazing, but it's crucial to manage newly sown pastures carefully to avoid overgrazing, which can cause plants to be pulled out. Light grazing during the establishment phase helps with weed control and promotes dense, low growing vegetation. After establishment, heavier grazing up to the flowering stage enhances seed production. However, once flowering starts, stocking rates should be decreased to maximise seed set and future regeneration.

A good seed set is vital for the regeneration and persistence of the sub clover in subsequent years. Hay making in the first year should also be avoided to aid with seed set and regeneration in following years.

Sowing and Establishment

Sow 6-10 kg of seed per hectare in a pasture mix or blend. It is recommended to sow after the autumn break into a finely prepared seed bed. Use seed coated with Superstrike®, which includes rhizobia, insecticide, fungicide and lime to enhance germination.

Direct drilling Edison into the top 1–1.5 cm of a fine seedbed will typically give the best results. Press wheels or light rolling can aid in establishment in most cases but avoid these if the soil is prone to hard setting.

Consult your local retailer, Agronomist or DLF Seeds Sales Agronomist for optimal results.

SOW DLF SEEDS FOR CERTAINTY THROUGH SCIENCE®

For more information and to get in touch with you local DLF Seeds Sales Agronomist, visit dlfseeds.com.au or call 1800 619 910

Joint Venture
Edison was developed by the Annual Legume Breeding Australia (ALBA) joint venture between The University of Western Australia and DLF Seeds with prior contributions by the Department of Primary Industries and Regional Development (Western Australia).