

SUBTERRANEAN CLOVER

g o s s e



Gosse is a large white seeded Sub-Clover variety that belongs to the *Trifolium subterraneum ssp. yanninicum* family and was developed as part of the National Subterranean Clover Improvement Program.

Gosse demonstrates a prostrate to semi erect growth habit and is particularly well suited to moderate to heavy soils and is able to tolerate short periods of waterlogging. It has mid season maturity which makes Gosse suitable for medium to high rainfall zones. Gosse was developed as a replacement for Trikkala and as an alternative to Larissa. It is suited to regions with a 7 month growth period. It was selected for improved seedling vigour, increased hard seed, disease resistance, and winter and spring herbage production. The superior hard seed levels of Gosse makes it well suited to either permanent pasture or medium term cropping rotations. Gosse will provide the benefits of soil nitrogen along with an effective disease break.

CHECKLIST

- ✓ **Mid season maturity
- 126 days to flower**
- ✓ **More productive
replacement for Trikkala**
- ✓ **Improved growth in both
winter and spring**
- ✓ **Higher hard seed levels**
- ✓ **Improved resistance
to Clover Scorch and
Root Rot**
- ✓ **Excellent forage for
grazing, hay or silage**

RAINFALL

Gosse is well suited to temperate areas receiving a total annual rainfall of 500-800mm+ and irrigation.

SOIL TYPE

Gosse is suited to a wide range of medium to heavy soil types with an ideal pH range of 5.0-7.0 (CaCl₂) but will remain productive in soils down to pH 4.5 (CaCl₂) and can tolerate periods of waterlogging. Growers should consider liming (coating or fertiliser applications) if sowing into high acid situations (i.e. <4.9 CaCl₂). Responses to lime can occur up to pH 6.0 (CaCl₂).

INOCULANT

Apply group C Rhizobium to seed prior to sowing. Plant nodulation is extremely important for soils below pH 7.0 (CaCl₂). Inoculation is essential to ensure sufficient nodulation occurs and maximise nitrogen fixation.

MATURITY

Gosse is a mid maturing type, flowering approximately 126 days after sowing which

is 10-14 days later than Trikkala and 14 days earlier than Larissa.

REGENERATION

Gosse has a higher level of hard seed (20-25%) compared to that of Trikkala (5-10%) and Larissa (10-15%). Gosse and Trikkala produce similar levels of seed production, however due to a high hard seed level it is able to build up a greater reserve of seed in the soil over time, thus enhancing persistence and productivity for many years.

GRAZING

Gosse produces excellent forage for grazing, hay and silage. Care must be taken with new sown pastures so as not to overgraze too early as plants can be pulled from the ground. Light grazing during the establishment period will help control weeds and encourage dense prostrate growth. Once established, heavy grazing of Gosse up to flowering will improve seed set. When flowering begins, stocking rates should be reduced to optimise seed set and prolong the life of the stand.



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DISEASE RESISTANCE

Gosse is resistant to Clover Scorch (*Kabatiella caulivora*) and has demonstrated high resistance to Phytophthora Root Rot (*Phytophthora clandestina*) strains 0 and 2 and is resistant to strain 1. Gosse is resistant to Root Rots caused by Pythium (*Pythium spp.*), leaf diseases such as Leaf Rust (*Uromyces trifolii-repentis*) and Cercospora Leafspot (*Cercospora zebrina*).

PEST RESISTANCE

Gosse, as with all Sub-Clovers, is susceptible to Red Legged Earth Mite, (*Halotydeus destructor*), Blue-Green Aphid (*Acyrtosiphon kondoi*), Blue Oat Mite

(*Penthaleus major*) and Spotted Alfalfa Aphid (*Therioaphis trifolii*). Therefore control is essential at the early seedling stage and appropriate pest management must be implemented as required.

SOWING RATE

When sowing alone to produce a dense stand sow at minimum of 6-10 kg/ha under dryland conditions and 15-20 kg/ha under irrigation. In pasture mixtures, Gosse should be sown at 4-10 kg/ha.

If sowing Gosse for seed production it is suggested that a rate of 15-20 kg/ha is used for irrigated stands.

Optimum time for sowing is early to late autumn after rainfall. Sow at a depth of 1-1.5cm into a moist seedbed free of broadleaf and grass weeds.

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Arrowleaf

Cefalu

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Frontier

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Persian

Kyambro

Laser

Lightning

Morbuk

Nitro Plus

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Antas

Campeda

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Napier

Rosedale

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Capello

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Sirosal

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