

Brassica Biofumigant Cover Crops

Biofum



Management

The crop benefits from moderate fertiliser and irrigation to optimise its performance as a biofumigant. Ammonium sulphate at 120kg/ha 3–5 weeks after planting is recommended.

Potential uses

- Biofumigant
 - Suppression of *Macrophomina Phaseolina* in Winter/Spring planting and *Sclerotinia sclerotiorum* with a Summer planting¹
 - Suppression of *Pythium* spp., *Fusarium* spp., *Verticillium dahlia* and *Rhizoctonia* spp.
 - Suppression of nematode like *Heterodera* spp. and *Para trichodorus* spp.²
- Green manure crop
- Prevent soil loss through rainfall runoff
- Nursery for beneficial insects

Insect and disease issues

- **Common insect pests include:** Cabbage cluster caterpillar, Diamondback moth, Cabbage centre grub, Aphids, Thrips and a number of other insects. They are all found only in non-damaging levels
- **Common diseases include:** White blister and Bacterial brown rot

Refer to the APVMA for information about chemical control of pests. Always read and understand the label before using any chemical.

Botanical name *Raphanus sativus* and *Sinapis alba*

Synonyms Doublet oil seed radish
Achilles white mustard

Seeding rate 10kg/ha

Growth habit

- Plant height up to 140cm and good early vigour
- High biomass production during Winter months (185t/ha fresh weight)

Planting All year round but greatest biomass during cooler time of the year

Incorporation

- 61 days in Summer
- 97 days in Winter

¹ Department of Agriculture and Fisheries ² Other sources