

Control of *Orobanche crenata* in Faba bean

Orobanche crenata yemeder kitegne, dymerech



Orobanche crenata killing faba bean © Chris Parker/Bristol, UK



Orobanche crenata on faba bean © D.M. Joel

Prevention	Monitoring	Direct Control	Direct Control	Restrictions
<ul style="list-style-type: none"> • Use clean seed to reduce the chance of contamination • Seeds are transported by water - Prevent water runoff from infested land to prevent seed introduction • Seeds are spread by animals - do not allow livestock into an affected area • Seeds travel on machinery - clean equipment and vehicles after work in infested areas • Plant resistant/tolerant varieties - availability depends on location • Crop rotation with non-hosts such as linseed, onion, cucumber or carrots, to deplete seed bank • Avoid seed set, as the seeds are very long-lived • Before planting, cover the soil with transparent plastic for four weeks to kill the weeds • Soak seeds with Imazaquin, kerosene, Imazethapyr and Imazapyr before planting 	<ul style="list-style-type: none"> • Annual, herbaceous, succulent, parasitic plants that lack chlorophyll. 30-50cm tall but can exceed 100cm (especially in Ethiopia). Stems are un-branched, yellowish-brown, often tinged with purple. A root parasite seen only on host roots • Look for stunted crop growth and chlorosis 	<ul style="list-style-type: none"> • Light infestations can usually be controlled by hand pulling or hoeing before seed is produced. Then bury them deep, at least 60 cm if possible • Wash hands after handling the plants to prevent spread of seed 	<ul style="list-style-type: none"> • Use of chemical herbicides may lead to the development of herbicide resistance. • Imazaquin, Imazethapyr and Imazapyr 	<ul style="list-style-type: none"> • When using a pesticide, always wear protective clothing and follow the instructions on the product label, such as dosage, timing of application, and pre-harvest interval. • WHO Class U (Unlikely to present acute hazard)

Ethiopia

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