

Seed Mixtures That Can Resist European Chafer Insect Larvae.

White Grub Mixture.
Very dry soil **Without irrigation.**

**70% Tall fescue 'SR-8200'.
15% Kentucky bluegrass 'SR-2100'.
15% Perennial ryegrass 'SR-4200'.**

White Grub Mixture.
Dry soil **Minimal irrigation.**

**50% Tall fescue 'SR-8200'.
25% Kentucky bluegrass 'SR-2100'.
25% Perennial ryegrass 'SR-4200'.**

White Grub Mixture.
Humid soil **With irrigation.**

**25% Kentucky bluegrass 'SR-2100'.
25% Kentucky bluegrass 'Impact'.
25% Tall fescue 'SR-8200'.
25% Perennial ryegrass 'SR-4200'.**



The larvae of the *European Chafer* is one of the most destructive turf-grass insects in Eastern Canada. It can damage turf in cemeteries, commercial lawns, parks, residential home lawns, and sports fields. This insect will deposit its eggs in



turf once per year during the month of July. After the eggs have hatched, the young larvae, called White Grubs, WILL BEGIN FEEDING ON THE FIBROUS ROOTS OF TURFGRASSES. These larvae may remain active until November, and will resume their feeding the following May. Once they have destroyed seventy per cent of the root system, the foliage will dry out, and will change colour from green to brown. Quite often, skunks and other small mammals will dig up turf in order to feed on grubs. **La Tall Fescue is the turf species that is most resistant to grubs in dry soils.** Research has demonstrated that the EUROPEAN CHAFER will tend to survive less easily when feeding on TALL FESCUE roots. The larvae will survive better with the weaker roots of FINE FESCUES, PERENNIAL RYEGRASS, and KENTUCKY BLUEGRASS. **When turf is subject to low maintenance and no irrigation,** turf with the largest root system will tend to resist grubs best. For regions that are very dry during the summer, a seed mixture with A HIGH PERCENTAGE OF TALL FESCUE is recommended. In addition, TALL FESCUE possesses an excellent tolerance to drought; therefore, this species will survive better than KENTUCKY BLUEGRASS in very dry soils. Additionally, many improved varieties of TALL FESCUE also possess good tolerance to cold temperatures. Moreover, research has demonstrated that KENTUCKY BLUEGRASS in a seed mixture with TALL FESCUE tends to protect the crowns of TALL FESCUE from winter cold temperatures. **When turf is provided with irrigation and fertilization that are both optimal,** a seed mixture with a majority of improved varieties of KENTUCKY BLUEGRASS is the BEST CHOICE for resistance to EUROPEAN CHAFER grubs. Test results suggest that under optimum maintenance conditions, KENTUCKY BLUEGRASS is most tolerant of EUROPEAN CHAFER grubs.