

Chemicals and livestock

2. TRY TO USE CHEMICALS LESS TOXIC TO DUNG BEETLES WHEN LIVESTOCK ARE OUT ON PASTURE

All parasiticides are labeled with their active chemical. Just take a look on the back of the box or on the instruction leaflet. The order of toxicity to dung beetles of the chemical class you will see is:



*SPs (Synthetic Pyrethroids) include *Deltamethrin, Permethrin, Cypermethrin & Alphacypermethrin*

**IGRs (Insect Growth Regulators) include *Dicyclanil, Cyromazine*

The following chemicals are unlikely to impact dung beetles:



**Albendazole, Fenbendazole, Levamisole, Mebendazole, Oxfendazole, Ricobendazole*. As far as we are aware, no data are currently available for *Derquantel* or *Oxyclozanide*. *Diazinon* is an OP (Organophosphate) used in fleece dips. It is excreted in the urine so, whilst it is unlikely to impact dung beetles, it may have a negative impact on beneficial soil invertebrates.

We are what we eat



Dead beetles found after entering fresh dung less than 12 hours old.