

Table 1. Effects on dung beetles exposed to dung from cattle treated with various parasiticides as either pour-on, injectable or spray formulations.

REPORTED EFFECT ON DUNG BEETLES*				
	Mature adults	Young adults	Breeding females	Eggs/larvae
ENDECTOCIDES - Macrocyclic Lactones				
Avermectins: Abamectin, Doramectin, Eprinomectin, Ivermectin	No known Effect	Increased Mortality	Reduced Breeding	Increased Mortality
Moxidectin**	No Known Effect			
ECTOCIDES - Synthetic Pyrethroids				
Cypermethrin	Increased Mortality	Increased Mortality	Reduced Breeding	Increased Mortality
Deltamethrin	Increased Mortality	Increased Mortality	Reduced Breeding	Increased Mortality
Flumethrin^	Not Tested			
ECTOCIDES - Organophosphates				
Chlorfenvinphos	Not Tested			
Diazinon	Not Tested			
ECTOCIDES - Growth Regulators				
Fluazuron	Not Tested			
ECTOCIDES - Amines				
Amitraz	Not Tested			
ANTHELMINTICS				
Albendazole Fenbendazole Levamisole Mebendazole, Morantel Oxfendazole	No Known Effect			

* This is a synthesis of information contained in CSIRO Contracted Report #56 by K. G. Wardhaugh (2000) and scientific papers or reports either mentioned therein or located independently. Effects noted have been reported at least once for one or more species.

** When used at recommended rates for cattle, has no known impact on *Onthophagus gazella*, *O. taurus*, *Euoniticellus intermedius* and *E. fulvus*. Effects on other dung beetle species have not been fully evaluated.

^ Refers to the spray formulation only; the pour-on is no longer available.

The trade names under which commonly used active constituents are registered in the same formulations are shown in Table 2.

