

Summary of the notes for each technical topic: [Preparing low worm-risk paddocks](#)

Subtopic	New information, research and extension opportunities	Comments and Boss URLs (where there is existing information)
<ul style="list-style-type: none"> <li>• <b>Incomplete data to support effectiveness of recommendations</b></li> <li>• <b>What length of preparation is enough?</b></li> <li>• <b>What reduction for infective stages % or L3/kg for each species</b></li> <li>• <b>What are the Factors that compromise effectiveness</b></li> </ul>	New information	There is a need for WormBoss to be more specific about the age of sheep/cattle and length of time for rotation and to regionalise this information more clearly and for species (inc. Nematodirus). <a href="http://www.wormboss.com.au/tests-tools/management-tools/grazing-management.php">http://www.wormboss.com.au/tests-tools/management-tools/grazing-management.php</a>
		Need to provide the refugia and drench resistance implications from pasture spelling. <a href="http://www.wormboss.com.au/news/articles/drench-resistance/use-refugia-to-prolong-drench-life.php">http://www.wormboss.com.au/news/articles/drench-resistance/use-refugia-to-prolong-drench-life.php</a>
		Need to increase information in WormBoss on compromise factors such as economics, flock structure, etc.
		Simplify smart grazing principles.
		Need to make clear that wet summers can reduce the effect of smart grazing in winter regions. <a href="http://www.wormboss.com.au/programs/vic/appendices/smart-grazing-for-weaner-worm-control.php">http://www.wormboss.com.au/programs/vic/appendices/smart-grazing-for-weaner-worm-control.php</a>
		Need to make sure that having low WEC is not good enough for summer rainfall regions (e.g. wethers, Barbervax).
		WormBoss needs less text and more pictures.
	R&E opportunity	Need to define protocols for grazing forage crops as low refugia.
		Define how crop cultivation reduces L3 (i.e. timing).
		Explore the potential of anthelmintic effects from plant species.
		Need to develop a decision tree for grazing management for worm control.
		Need a method to estimate effectiveness by measuring pasture L3 (e.g. bio chemi-lumenesence, colour change from bike tyre, drones), tracer sheep.
		Need to establish pasture L3 intake thresholds for different sheep enterprises, classes and BCS. 200 L3/kg grass is target for low refugia in NZ.
		Establish PDS projects to demonstrate grazing management for worm control.
		Is the information on Teladorsagia / Trichostrongylus L3 survival good enough?
Need to clarify the effects of topography on reducing pasture L3 from grazing.		