THE GREAT AUSSIE ECOVINEYARDS

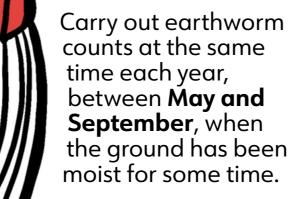
WHAT

WHY

ECONINEYARDS GROWING RESILIENCE NATURALLY

Earthworms are often referred to as 'ecosystem engineers' as they help to decompose plant material to increase plant available nutrients, aerate and create soil pores which in turn improves soil structure and aggregate stability. An earthworm has a long digestive tract with a gizzard that grinds both live and dead organic matter to produce finely ground and nutrient rich casts.

Higher numbers of earthworms indicate conditions that are favourable (soil moisture, organic matter, and low chemical residues) for soil health and plant growth. Count the number of earthworms that are longer than 25mm in an intact spade full of soil (20cm wide x 20cm deep). Put the soil on a light-coloured sheet or board so you don't lose any of the earthworms. Take 3 to 5 samples from a representative area and average the result.



HOW

COMMONLY FOUND EARTHWORMS IN AUSTRALIA & THEIR DISTRIBUTION

red marsh worm, red wriggler, dung worm, *Lumbricus rubellus*



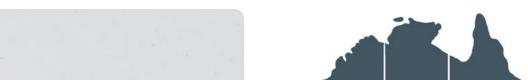


pink worm, rosy tip worm, Aporrectodea rosea



Photo: nzwormdoctor (CC BY-NC)

orange-saddle worm, *Microscolex dubius*



southern worm, *Aporrectodea trapezoides*



Photo: Mike Hedde (CC-BY-NC 4.0)

grey worm, small field worm, Aporrectodea caliginosa

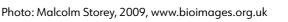


blue-grey worm, Octolasion cyaneum



black-headed worm, large field worm, *Aporrectodea longa*







giant Mount Lofty earthworm, *Gemascolex stirlingi*





Photo: Emma Linsenmeier (CC-BY-NC 4.0 (Int))

giant Gippsland earthworm, *Megascolides australis*







Photo: Σάββας Ζαφειρίου (CC BY-SA 3.0)

Distribution maps for each earthworm species [ALA (CC BY 3.0 AU)]



For more information about The great Aussie vineyard earthworm count and to download a copy of the **Soil health indicators for Australian Vineyards** booklet visit www.ecovineyards.com.au

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Wine Australia





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