

Riparian Zone Management for Multiple Benefits

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Healthy riparian vegetation provides benefits to growers and the community

Examples include:

- Bank stabilisation
- Carbon sequestration
- Natural pest control
- Water filtration
- Biodiversity conservation
- Recreation
- And so much more...



Tree dieback impacts ecosystem functions and diminishes ecosystem service value

- Tree dieback is caused by a range of complex interacting factors, including:
 - Frequent, prolonged water stress
 - Increased leaf nutrient concentrations
 - Insect outbreaks, e.g. psyllids
 - Spray drift
 - Grazing and weed invasion (e.g. lippia)



How can we improve tree health and ecosystem service benefits?

- Map sensitive areas and minimise spray drift
- Exclude livestock from riparian zones
- Maintain dense, structurally complex habitat by retaining fallen timber, dead trees, litter, etc.
- Plant trees and flowering native shrubs to provide habitat for natural pest control agents



Using drones to plant trees!



- Collaboration with UK company, BioCarbon Engineering
- Plant one hectare in 15 minutes at 1/10th of the cost of tubestock
- Seeds encased in water-soluble pods containing fertiliser, water-holding crystals, etc.
- **Looking for sites – please come and see me if you are interested in hosting a trial at your farm!**

<https://www.biocarbonengineering.com/>

