# Riparian Vegetation Classification and Enhancement Opportunities

Sherry River, Motueka Catchment **Integrated Catchment Management Programme** 





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### Woody riparian vegetation provides:

- Channel and bank stability and reduced sediment in stream water
- Stream shade and lower stream temperature
- Source of carbon for biota (litter and woody material)
- Buffer to flood flows and the input of nutrients (such as nitrate)
- Terrestrial habitat for invertebrates and micro fauna
- Native plant corridor for birds
- Biodiversity of flora and fauna
- Protection of culturally significant plants
- Native vegetation provides an aesthetically pleasing environment for recreation.

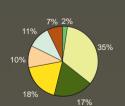




A method has been designed to classify riparian vegetation. Tasman District Council colour orthophotographs of the Sherry River were examined to describe riparian vegetation in seven broad classes. Ground truthing corrected misinterpretations. The vegetation in the non-pasture classes has been assessed to provide a description of the vegetation and an understanding of the opportunities for enhancement.



## Vegetation Class (length of Sherry River).



- Deciduous hardwoods
- Indigenous forest
- Mixed exotic shrubland
- Mixed indigenous shrubland
- Plantation forest

Vegetation Class	Area (m²)	Av. width (m)
Beech	13,092	4
Deciduous hardwoods	323,110	
Indigenous forest	247,232	6
Mixed exotic shrubland	111,453	
Mixed indigenous shrubland	60,614	6
Pasture	67,503	4
Plantation forest	64,964	6

### ENHANCEMENT OPPORTUNITIES

11% of the length of the Sherry River is pasture and has no woody riparian vegetation.

Over a third of the riparian vegetation has been classified Deciduous hardwood. Deciduous hardwood vegetation is generally about 5 m wide and consists mainly of crack willow trees draped in old man's beard. It often has a thick ground cover of blackberry. Weed management is essential if more desirable riparian vegetation to be established.

The mixed Indigenous shrubland vegetation is in the upper part of the catchment, and contains some native species such as kanuka and Coprosmas.



Cracked willow clothed in old man's beard



Indigenous forest exists along about 17% of the length of the river and consists of beech and podocarp trees, some native understory species, with few weeds present. This vegetation has an average width of 6 m. Individual beech trees also occur intermittently along the length of the river.

These areas offer good opportunities for riparian enhancement with native species. Weed management will be less difficult, and a native seed source already exists.

