

PLANT LIST AWAAROA WETLAND

Toe of hill - i.e. on sloping ground (percentage)

Plant name	Proportion	plant Numbers	Plant Size
1. mahoe (<i>Melicytus ramiflorous</i>)	15%	670	PB3
2. kowhai (<i>Sophora chathamica</i>)	5%	222	PB3-5
3. totara (<i>Podocarp totara</i>)	10%	444	PB3
tutu (<i>Coriaria arborea</i>) substitute species - <i>Myrsine australis</i> (Mapou) and <i>Pseudopanax lessonii</i> (2.5% each)	5%	222	PB3
5. cabbage tree (<i>C. australis</i>)	20%	890	Pb3
6. kanuka (<i>Kunzea ericoides</i>)	30%	1340	PB3
7. karamu (<i>Coprosma robusta</i>)	10%	444	PB3
8. <i>Hebe stricta</i> (eco-source from wet areas)	5%	222	Pb3
		4454	total numbers
Total area 4456			

Note the polygons down the true right bank primarily comprise southern aspect hill country. The “SEA area potential” layer has the hill country flanking the wetland as WFP9 - taraire, tawa podocarp forest. However, this area is frost-prone and requires hardy pioneering species to be established and the emphasis will be on recreating the broadleaf, kanuka, mixed podocarp forest found on the hillslope further up the reserve. We have allowed for 1m centres (for plant spacings overall). For the hillslope, that may blowout to 1.2m centres and for the alluvial (wetland) flats down to 0.6m for Carexs.

In recent times this southern aspect (hill) slope has been subject to moderate sized slips. Because on the true right bank the hill abuts the wetland, slip debris from land subsidence readily deposit in the actual wetland. The imperative here is to prevent mass soil movement by stabilising the toe of the hill. And this resource suggests making liberal use of cabbage tree and mahoe because of its superior root penetration and tensile strength.

Alluvial wetland terraces

Plant name	Proportion	plant Numbers	Plant Size
1. <i>Carex secta</i>	5%	100	PB3
2. <i>Carex virgate</i>	5%	100	PB3
3. <i>Carex lessoniana</i>	10%	200	PB3
4. <i>Phormium tenax</i>	20%	188	root trainers or PB2
5. cabbage tree (<i>C. australis</i>)	20%	188	PB3
6. kahikatea (<i>Dacrycarpus dacrydioides</i>)	5%	47	PB5
7. manuka (<i>Leptospermum scoparium</i>)	30%	283	PB3
8. <i>Dicksonia squarrosa</i> substitute species - <i>Myrsine australis</i> (Mapou)	5%	47	PB5
		1153	Total numbers
total area 942m2			

While most of the plant species planted on the true left bank will be wetland sedge species established in the floodplain, hillslopes (in effect steep banks where road batters converge on the wetland) become more prevalent in the upper reaches of the wetland.

And as such while the strong bias will be herbaceous species, these sloping areas at least will need tree cover.