## 5.3 Scale and timing of effect

Management options can operate on a variety of different scales (local to regional) and over a variety of different time frames. Table 17 summarises the timing and scale of effect and whether the management options address the cause or symptoms of salinity.

## Table 17: Salinity Control Options – scale of timing and effect

	Addr	esses	Timi	ng of e	effect	Scale of effect			
Salinity Control Options	Symptoms	Causes	Short term (< 5years)	Medium Term (5 to 10 years)	Long term (>10 years)	Local (< 5 kilometres)	Intermediate (5 to 20kms)	Regional (>20kms)	
Recharge control – Irrigation management	- V	Ŭ	- 0,						
Conversion from flood to spray irrig									
More efficient flood irrigation									
Efficient irrigation development on 'Greenfield sites'									
Recharge control – Agronomic options									
Perennial pasture establishment and management									
Alternative irrigated crops									
Tree planting on recharge areas - commercial forestry									
Tree planting on recharge areas - farm forestry									
Tree planting - recharge control only + firewood									
Maintaining and managing existing native vegetation									
Alley farming (alternating rows of trees and crops/pastures)									
Engineering options - sub-surface drainage		İ							
Public Groundwater Pumps									
Private Groundwater Pumps in high water table areas									
Free flowing bores discharging to rivers/drains									
Tile and mole drains									
Engineering options - surface drainage									
Improved surface drainage									
Improved environmental flows									
Structures to prevent lake inflow to rivers and/or wetlands									
Sea Walls									
Structures to prevent ocean water entering Lake Wellington									
Living with salt									
Salt tolerant crops and pastures									
Tree planting - break of slope interception									
Aquaculture									
Salt harvesting									
Government buy-back of saline land for rehabilitation		$\vdash$							
Evaporation basins					$oxed{oxed}$				
Leaching fractions									
Ensuring appropriate irrigation leaching fractions are achieved									

Based on the characteristics of the management options described above, the applicability of the management options to each Salinity Management Area was determined (Table 18).

## Table 18: Current and potential future implementation of salinity management options

Table 16. Current and potential luture impleme	T	mation of samily management options														
	اما	Lake Wellington -						South								
		_				Laka Wallington dratasa										
Currently or historically implemented	IIII	Irrigated				Lake Wellington - dryland								Gippsland		
In the process of being implemented								z					WILSONS PROM. NP	_		
Potential for implementation	CLYDEBANK		Ā		щ	WELLINGTON	ᄪ	BENGWORDEN		STRATFORD	TRAFALGAR	LA	PRC	PORT ALBERT		
	1 8	₹	NAMBROK	HEYFIELD	BOISDALE	NG	ROSEDALE	8	l		۲	WALHALLA	SS	AL	22	
	Ιö	上莊	AB.	IĒ	SD	$\exists$	띪	ত্র	=	Į₹	Ä	프	SC	Ϋ́	Ę	
	ΙΞ	MAFFRA	Į	<u> </u>	Ö	٧E	ő		REEVE	l ji	<u> </u>	٧A	l ∥	Ö	FOSTER	
	╁			广			_		-	0,	_	_			-	
	0		<u> </u>				က္က	-	Ω					∞	2	
	6,070	936	3,241	504	566		3,563	2,511	1,582	403	142			3,518	1,297	
Mapped land salinity area (Ha	) (9	<u> </u>	က်	2	ũ	3	က်	Ω.	-	4	Ť	0	0	8	-	
	_					8,820	9									
	3,947		0			80,	2,366	۱_	Ŋ	ĺζ					တ္	
Mapped wetland salinity area (Ha	) က်	0	403	0	-	18	ĺά	19	182	675	0	0	0	0	149	
Recharge control – Irrigation management																
Conversion from flood to spray irrig																
More efficient flood irrigation																
Efficient irrigation development on 'Greenfield sites'						0	0		0		0			O	0	
Recharge control – Agronomic options				П												
Perennial pasture establishment and management																
Alternative irrigated crops	0	0	0	0				0						0	0	
Tree planting on recharge areas - commercial forestry								0						0	0	
Tree planting on recharge areas - farm forestry							0	0	O		0			0	0	
Tree planting - recharge control only + firewood								Q	Q		Q			Q	Q	
Tree planting - break of slope interception	O	O	0	O	O		O	O	O		O			O	O	
Maintaining and managing existing native vegetation		Q	Q	Q	Q		Q	Q	Q	Q	Q			Q	Q	
Alley farming (alternating rows of trees and crops/pastures)	O	O	0	0	0		0	0	0	0	0			0	0	
Engineering options - sub-surface drainage																
Public Groundwater Pumps					O		Q	Q	$ldsymbol{ldsymbol{ldsymbol{eta}}}$					Q	Q	
Private Groundwater Pumps in high water table areas	10		Q				Ŏ	O	$\vdash$					0	0	
Free flowing bores discharging to rivers/drains	10															
Tile and mole drains				_	$\Box$			_								
Engineering options - surface drainage													Щ			
Improved surface drainage	12	X	N.	N.	X											
Improved environmental flows Structures to prevent lake inflow to rivers and/or wetlands															<u> </u>	
Sea Walls				⊢									Н			
Structures to prevent ocean water entering Lake Wellington	0												Н	Ŏ		
Living with salt	$\overline{}$			$\vdash$				_								
Salt tolerant crops and pastures						0	0				0					
Aquaculture	O		Ŏ										$\vdash$			
Salt harvesting	T			$\vdash$	$\vdash$			$\vdash$								
Government buy-back of saline land for rehabilitation	0		0			0	0		0						$\vdash$	
Evaporation basins	ŏ				М											
Leaching fractions	T															
Ensuring appropriate irrigation leaching fractions are achieved														0	$\vdash$	
0 , 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									_			_				