The X7 Farm Pole Nursery Guide

Part 3 – Annual Work Plan

Acknowledgments: Colin Stace (HBRC) and Weston Brown (Horizons). In conjunction with the NZPWRT Technical Advisory Group.



and Recenter (18)

THE NEW ZEALAND POPLAR & WILLOW RESEARCH TRUST

September. 2024

Appendix I

Annual Calendar of N	ursery Works	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
New Plantings & Stoo	l Replacement			·		·				
Site preparation	Fencing, clearance/levelling, spray out vegetation, grind old stools if replacing. Rip planting lines				Fence, clear	Spray	Rip, 400mm deep			
Plant Material	Cuttings 500mm long, 25-30mm top end dia. Cut to bud						-	n or cut, resh water		
Planting	Use stringlines and set out to required spacings								Plant to 30	0mm
Crop Management			J			J		1		
Thinning	Initial crop thin and 2nd year removal of under sized leaders	Late Dec to earl Cuttings - thin s leader 1st year re to 2 leaders 2nd - remove leader high 3 yr rotatio	hoots to best egorowth - thin I year regrowth s <25mm at 1m							
Pruning	2nd year side prunning of branches	Side prune to an of stems	round 1.8 m, or ap	prox. 1/3 height						
Weed control - 50 cm margin along either side of rows	Herbicide - boom/knapsack spray pre-emergent along rows before new growth flush, then use non-syestemic knockdown herbicide such as glufosinate for ongoing spring & summer weed control Mechanical - walk-behind cultivator along rows, hand hoe-ing between plants	Every 4-6 weeks				herbicide, 7.5L/ha a.i. ; plus knoc		Before bud brea herbicide, e.g tu 7.5L/ha a.i. ; plus knockdow herbicidewhere	urbuth vn	
Specific problem weeds -hand gun or knapsack	Hemlock, convolvulous, mallows, couch, blackberry, thistles, etc		Monitor and repeat control if required							
Grass Control - headlands & between rows	Mow - when length >100mm, around 14 day cycle during peak grass growth Sheep grazing - lambs over summer, 2nd and 3rd year growth		Mow - every tw	o weeks approx.						
Fertiliser	Base Dressing - per soil / foliar tests pH range 6.0- 6.5, Olsen P 25+, P, K or S if required Applied over cut stools only									S
	Side Dressing - 25 kg N/ha Applied to 1m band per row, timed for rain or irrigation Based on crop performance, for 2nd or 3rd year growth.									
	Optional: Foliar feed -Mag Nitrate and Tech Urea, combined with Rust spray	Every 3 weeks								
Irrigation	Under canopy, sprinkler or dripper	Application timing & volume per water budget or Irrigation Controller Maintain soil until leaf fall								
Pest and disease										
Monitoring	Weekly visual inspection - aphid & rusts S Matsudana main rust indicator species	Orange rust sp		ack aphid clusters ants & wasps	on stems, plus					
Giant Willow Aphid	Willow only - contact insecticide (e.g Marvik) application when first seen and repeat applications at 10-14 day intervals if still present	Sr	oray contact insec	ticide when prese	ent					
Rust - Poplar (especially P euramericana hybrids) and Willows	Apply fungicide at 3 weekly intervals, rotation of 2 systemic and 1 contact	3 week intervals: Pro-P - Taratek - copper oxychloride								
Silverleaf	Fungicide spray on fresh cut at stool harvest, within 1 hour of cutting: 3 g a.i Captan + marker dye					Fungicio	de on fresh cut st	ools straight afte	r harvest	Infect remo
Pole Harvest										
Pre-winter Check & Planning	Equipment & machinery, materials and labour; nursery access and pole handling areas; soaking bays or sprinklers for pole storage				Check and repair or replace as required	Confirm & allocate labour				
Harvest	Minimum cut height on stool 400 mm. Do not cut in rain, high risk of Silverleaf fungus infection							May to early Augu n be trimmed, bur		
Post harvest tidy up	Rows, headlands and handling areas cleared of slash Tractor mounter mulching mower, piece size up to 40 mm dia - contractor? Front end loader forks or grapple, move to suitable burn pile area (not in floodway) - burn if compliant				Post thin/ prune				Clean up a	& stoc

Sep	Oct	Dec					
n depth							
e-emergent							
hylazine at	Every 4-6 weeks						
	Lvery 4-0 weeks						
ired							
		Monitor and apply suitable					
		control where required					
	Mow - every two weeks approx.						
Soil test	General application						
		Apply N if					
		needed					
			Every 3 weeks				
		A li ti ti .					
		Application timing & volume per water budget or Irrigation					
		Controller					
		ots of foliage; blac					
	on stems, pl	us sooty mould, a	mus & wasps				
		Spray contact insecticide when					
		pres	sent				
		Zurachint					
		3 week inter Taratek - copp	vals: Pro-P - er oxychloride				
cted stools-							
ove & burn							
ckpile		Burn					

More Information:

NZ Farm Pole Nursery Guide Part 1 – Planning

NZ Farm Pole Nursery Guide Part 2 – Management

NZ Farm Pole Nursery Guide Part 4 – Disease and Pests

Who We Work With...









horizons







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Follow us on linkedin.com/company/nz-poplar-and-willow-research-trust

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