

Weed and forest regeneration observations at Windblown timber harvest sites

Date	16 Feb 2016
Specified Site	Carew Falls
Approved operator	DSJ Contracting
Date of harvest	From Oct 2014
Observers	Alan Tinnelly / Tim Shaw
Photo location	S:\Tim S\Timber\OPERATORS WORKPLANS\DSJ Carew Falls\Feb 2016

Summary Six in forest milling sites revisited approximately 12 months following harvest. No woody weeds or shade tolerant herbaceous weeds encountered within harvest sites. 3 sites alongside Carew Falls track had common herbaceous annual weeds, especially nightshade. None of these expected to be a long term problem. All weeds encountered were also present in light wells alongside the track. One woody weed - cotoneaster was found on the trackside away from harvest sites.

Natural regeneration occurring as an even mix of regrowth from damaged stumps (esp. mahoe, punga and crown fern), epicormic growth on partially snapped / leaning vegetation (pigeon wood, *cop aus*) and seedlings (fuchsia, pate).

Sawdust drifts may in places be inhibiting seedling colonisation, however the greatest distance between individual plants across sawdust affected sites is centimetres and on average less than 500mm. In these areas seedlings are getting a foot wherever sawdust is thin or on the edge of debris / soil.

Regrowth of fuchsia and pate (up to 2m) prolific especially from edges; Wineberry seedlings prolific and likely to be an important component of regeneration in medium term – at this stage some up to 20cm but most in early 1 to 10cm range.

Immediately surrounding damaged vegetation that was not cleared to allow milling, has relatively much denser and more prolific epicormic regrowth.



Location	First Matai milled at RHS of Carew Falls track				
Tree tag #	LL0350				
Waypoint	E 1468828		N 5278077		
Weeds					
Overall % cover	20%				
Species	Abundance	Stage	Species	Abundance	Stage
Nightshade	Abundant	Adult	Willow weed	Rare	Adult
Thistle	Common	Adult	Black berry	One	Seedling
Dandylion	Common	Adult	Scenecio	Common	Adult
Yorkshire fog	Rare	Adult			
Natural regeneration					
Overall % cover	20%				
Species	Abundance	Stage	Species	Abundance	Stage
Fuchsia	Abundant	Seedling?	Cop rob	Common	Seedling
Pate	Abundant	Epi Seedling	Cop aus	Common	Seedling
Wineberry	Common	Seedling	Supplejack	Common	Epicormic
Mahoe	Common	Epicormic			
Overall description					
<p>In forest milling site. Significant sawdust drifts and in places there may be inhibiting seedling colonisation. Regrowth of fuchsia (up to 1m) prolific especially from edges; maybe from seed but more likely from broken branches. Pate (up to 2m) also significant, again seedling or regrowth of stumps, suckers? Wineberry seedlings in early 1 to 10cm range...but prolific and likely to be important component in medium term. Mean length of regrowth = 700mm</p> <p>No woody weeds but surprising amount of herbaceous annual weeds, especially nightshade. None of these expected to be a long term problem.</p> <p>Immediately surrounding damaged vegetation that was not cleared to allow milling, has relatively much denser and more prolific epicormic regrowth.</p> <p>Total coverage of site by vegetation (woody and non woody) in region of 40 to 50%, whereas surrounding veg is 100% covered by combination of debris and epicormic regrowth.</p> <p>No Browse.</p>					

Location	Second tree milled at RHS of Carew Falls track				
Tree tag #	LL0351				
Waypoint	E 1468798		N 5278037		
Weeds					
Overall % cover	<5%				
Species	Abundance	Stage	Species	Abundance	Stage
Nightshade	Common	Adult	Scenecio	Common	Adult
Dandelion	Common	Adult			
Natural regeneration					
Overall % cover	20%				
Species	Abundance	Stage	Species	Abundance	Stage
Fuchsia	Abundant	Seedling?	Mul aus	Rare	Seedling
Pate	Abundant	Epi Seedling	Cop aus	Common	Seedling
Wineberry	Common	Seedling	Supplejack	Common	Epicormic
Mahoe	Common	Epicormic			
Overall description					
<p>In forest milling site. Sawdust drifts less than 0350 but in places these may be inhibiting seedling colonisation. Regrowth of fuchsia and pate (up to 1m) prolific especially from edges; Wineberry seedlings in early 1 to 10cm range...but prolific and likely to be important</p>					

component in medium term. No woody weeds and few herbaceous annual weeds, especially nightshade. None of these expected to be a long-term problem. Immediately surrounding damaged vegetation that was not cleared to allow milling, has relatively much denser and more prolific epicormic regrowth. Total coverage of site by vegetation (weedy and non weedy) in region of 50%, whereas surrounding veg is 100% covered by combination of debris and epicormic regrowth. No Browse.

Location		Third tree milled at RHS of Carew Falls track			
Tree tag #		LL0352			
Waypoint		E 1468734	N 5278012		
Weeds					
Overall % cover		5% to 10%			
Species	Abundance	Stage	Species	Abundance	Stage
Nightshade	Abundant	Adult	Juncus		
Thistle	Common	Adult	Foxglove		
Dandelion	Common	Adult	Poa ann		
Black berry	One	Seedling			
Natural regeneration					
Overall % cover		20%			
Species	Abundance	Stage	Species	Abundance	Stage
Fuchsia	Abundant	Seedling?	Mul aus	Rare	Seedling
Wineberry	Common	Seedling	Die sou	Common	Regrowth
Mahoe	Common	Epicormic	Water fern	Common	Seedling
Cop aus	Common	Seedling	Supplejack	Common	Epicormic
Overall description					
<p>In forest milling site. Sawdust drifts in places may be inhibiting seedling colonisation. Wineberry getting a foot wherever sawdust thin. Regrowth of fuchsia and pate (up to 1m) prolific especially from edges; Some Wineberry seedlings up to 20cm but most in early 1 to 10cm range... prolific and likely to be important component in medium term. No woody weeds and few herbaceous annual weeds especially nightshade. None of these expected to be a long-term problem. Immediately surrounding damaged vegetation that was not cleared to allow milling, has relatively much denser and more prolific epicormic regrowth.</p> <p>Total coverage of site by vegetation (weedy and non weedy) in region of 40%, whereas surrounding veg is 100% covered by combination of debris and epicormic regrowth.</p> <p>No Browse.</p>					

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Location	Tree milled on north side of road immediately across from road sign.				
Tree tag #	LLO353				
Waypoint	E 1469042		N 5278033		
Weeds					
Overall % cover	20%				
Thistle	Common	Adult			
Scenecio	Common	Adult			
Foxglove	Rare	Adult			
Ragwort	One	Seedling			
York Fog	Common	Adult			
Natural regeneration					
Overall % cover	20%				
Species	Abundance	Stage	Species	Abundance	Stage
Fuchsia	Abundant	Seedling?	Dic squ	Common	Regrowth
Pate	Abundant	Seedling?	Mahoe	Rare	Epicormic
Wineberry	Common	Seedling	Rice grass	Common	Regrowth
Cop aus	Common	Seedling	Pigeon wood	Common	Regrowth
Marble leaf	Rare	Seedling	Supplejack	Common	Epicormic
Overall description					
<p>In forest milling site. Sawdust drifts in places may be inhibiting seedling colonisation. Wineberry getting a foot wherever sawdust thin. Regrowth of fuchsia and pate (up to 1m) prolific especially from edges; Wineberry seedlings prolific, some up to 20cm but most in early 1 to 10cm range.</p> <p>No woody weeds. A few herbaceous annual weeds, especially nightshade. None of these expected to be a long term problem.</p> <p>Immediately surrounding damaged vegetation that was not cleared to allow milling, has relatively much denser and more prolific epicormic regrowth.</p> <p>Total coverage of site by vegetation (weedy and non weedy) in region of 50%, whereas surrounding veg is 90% covered by combination of debris and epicormic regrowth.</p> <p>Small amount of browse.</p>					

Location	First tree milled on south side of road down small track immediately beside road sign.				
Tree tag #	LLO400				
Waypoint	E 1469051		N 5278084		
Weeds					
Overall % cover	<1%				
Thistle	2	Adult	Ragwort	1	Seedling
Dandelion	2	Adult			
Natural regeneration					
Overall % cover	20%				
Species	Abundance	Stage	Species	Abundance	Stage
Dic squ	Abundant	Regrowth	Kamaha	Common	Epicormic
Mahoe	Common	Epicormic	Wineberry	Common	Seedling
Overall description					
<p>In forest milling site. Sawdust drifts. Regrowth of punga occupying over 40% of site. No woody weeds and very few herbaceous annual weeds. Total coverage of site by vegetation (weedy and non-weedy) in region of 50%, very little surrounding veg was damaged. No browse.</p>					

Location		Second tree milled on south side of road down small track immediately beside road sign.			
Tree tag #		LL0399			
Waypoint		E 1469101	N 5278127		
Weeds					
Overall % cover		<1%			
Thistle	Rare	Adult			
Dandelion	Rare	Adult			
Foxglove	Rare	Adult			
Natural regeneration					
Overall % cover		20%			
Species	Abundance	Stage	Species	Abundance	Stage
Wineberry	Common	Seedling	Rice grass	Common	Regrowth
Crown fern	Abundant	Regrowth	Supplejack	Common	Epicormic
Asp bul	Common	Regrowth	Mul aus	Rare	Seedling
Cop aus	Common	Seedling			
Mahoe	Common	Epicormic			
Overall description					
<p>In forest milling site. Sawdust drifts. Regrowth of crown fern occupying over 40% of site. No woody weeds and very few herbaceous annual weeds. Total coverage of site by vegetation (weedy and non weedy) in region of 50%. Surrounding damaged veg has relatively higher growth and mostly epicormic. Alot of small freshly germinated gris lit etc seedlings on sawdust. . Small amount of browse.</p>					

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Weed and forest regeneration observations at Windblown timber harvest sites

Date	16 Feb 2016
Specified Site	Bell Hill
Approved operator	NZSFP
Date of harvest	From Oct 2014
Observers	Alan Tinnelly / Tim Shaw
Photo location	S:\Tim S\Timber\OPERATORS WORKPLANS\DSJ Carew Falls\Feb 2016
Summary	

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WBT Weed Observations

Harvest Site	
Date of Observations	
Observer	
Links	

Site Description: Forest type, weeds present, distance from edge etc

Survey Point							Weeds present		
Tag	WPT			Harvest			Species	Abundance	Age / height
	Name	E	N	Yes	No	Description			

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