# Cable Yarders and Rigging Configurations in New Zealand: A 2018 Update





FOREST GROWERS RESEARCH

University of Canterbury School of Forestry



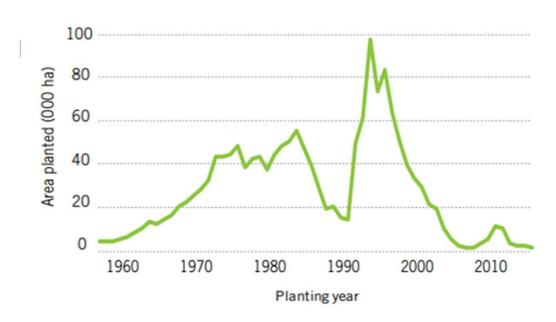
## Cable Logging in New Zealand

- "Steep" harvest area is increasing 40 → 60% annual harvest
- Expensive & dangerous compared to ground-based systems
  - Push to full mechanization -> driving many changes
  - New technologies available (winch-assist, cameras)
- Goal = understanding our current fleet of yarders and future industry direction
  - What has changed since 2012 survey?

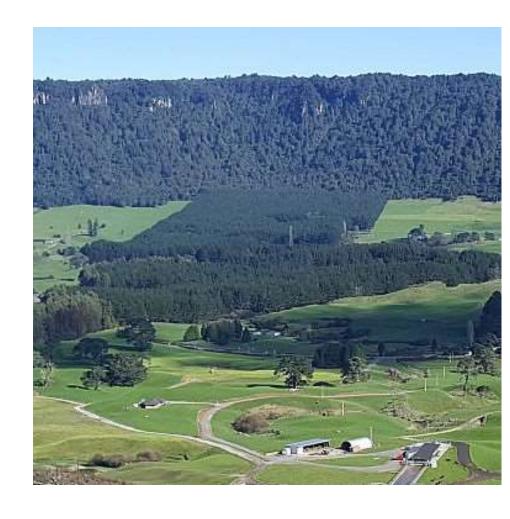




## 2018 Yarder Survey



- More small woodlots...
  - >14,000 owners





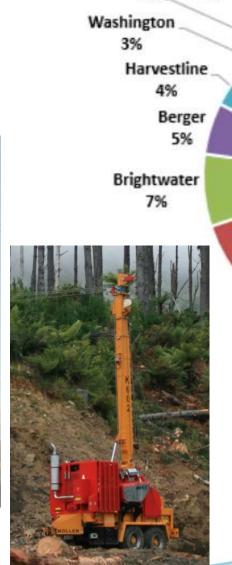


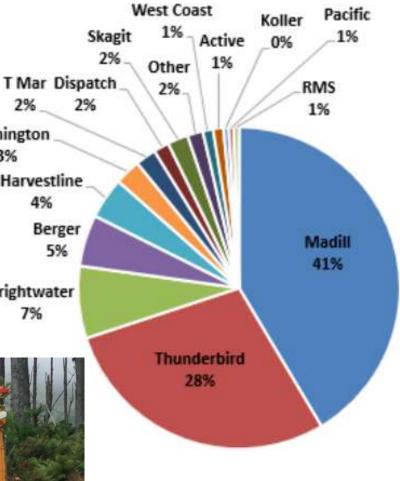
#### **Yarder Make**

- Top 5 manufacturers still the same!
- New players too











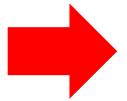
# Type & Models 2018

2012

Yarder Type	#	%
Tower	204	67%
Swing	92	30%
Excavator	9	3%
Total	305	100%

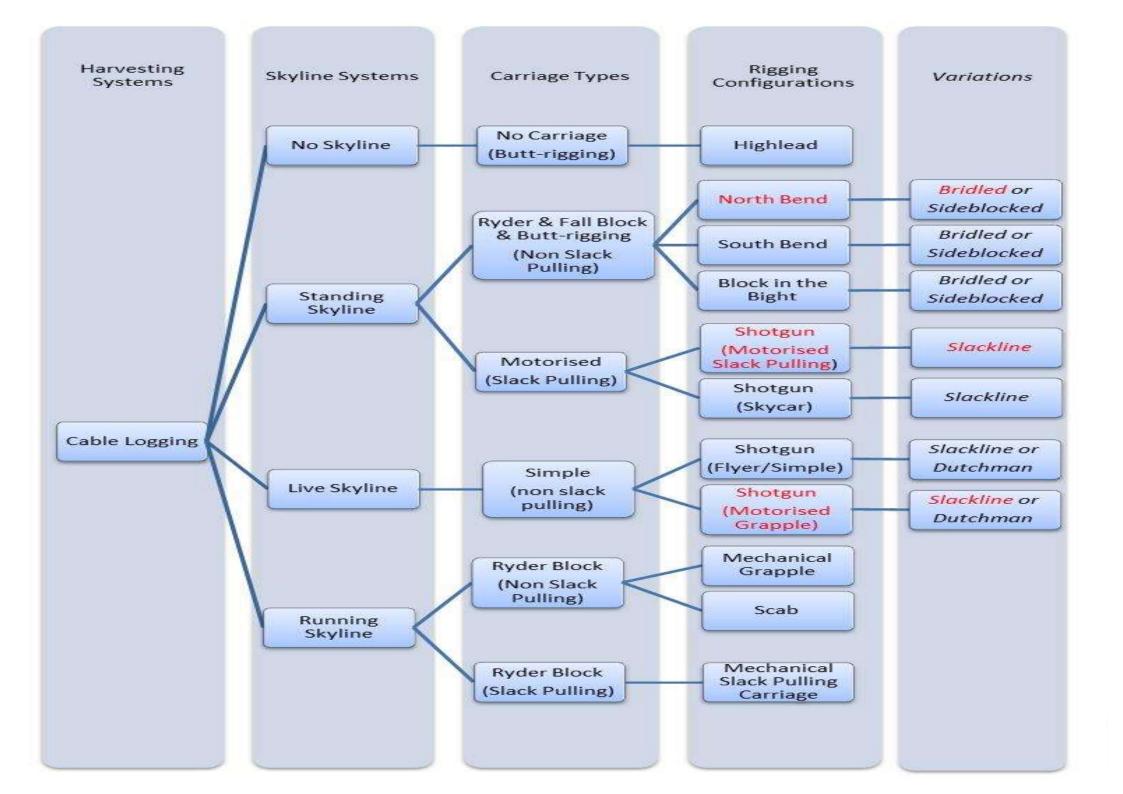
Yarder Type	#	%
Tower	108	56%
Swing	76	39%
Excavator	9	5%
Total	193	100%

<b>Yarder Model</b>	#
TMY 70	31
Madill 071	26
Madill 123	18
Madill 124	17
Madill 171	17
BE70LT	13
Madill 009	13
BE85	10
TSY 255	10
Madill 122	9

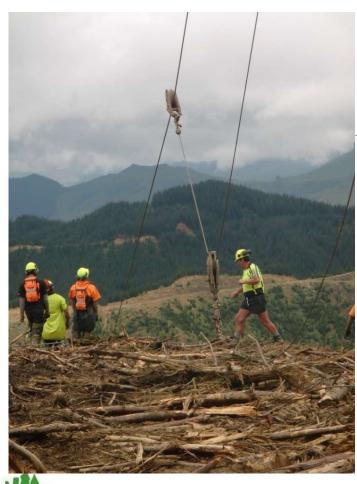


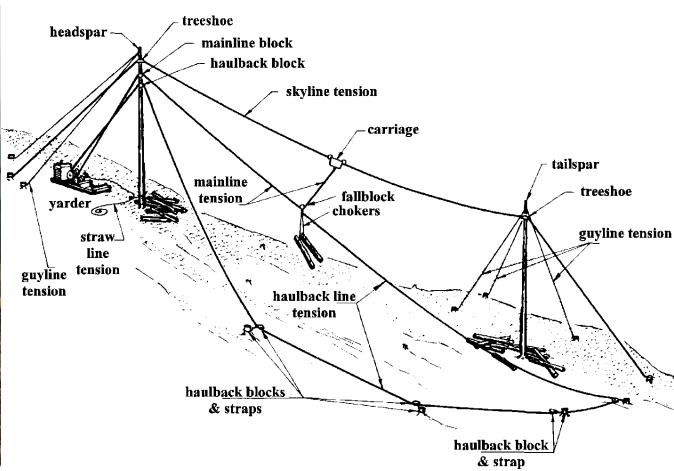
<b>Yarder Make</b>	#
Madill 124	20
Madill 123	14
Madill 071	13
TMY 70	12
Madill 171	10
TSY 255	9
Madill 122	7
Harvestline	6
Madill 009	6
BE 70	6
BE 70	6





#### **North Bend**









# **Motorized Carriages**









# **Grapple Carriages**



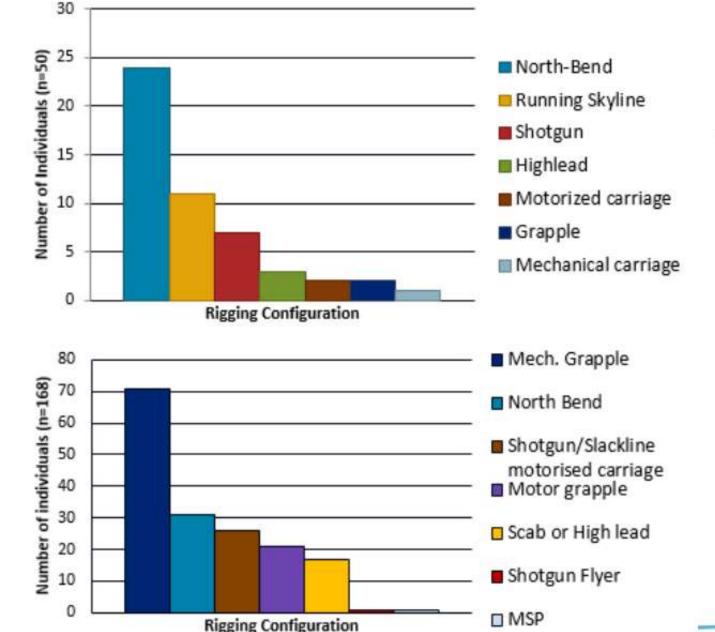








## **Carriages & Rigging Configurations**



2012 <30 % had access to carriage



2018 50% have access to carriage



### **Crew Characteristics**

Tension		
<b>Monitor</b>	#	%
No	132	79
Yes	36	21
Total	168	100

Radio Controlled		
Chokers	#	%
No	106	63
Yes	62	37
Total	168	100

Winch-		
assist	#	%
No	101	56
Yes	79	44
Total	180	100



## **Summary**

- Larger % older towers retiring
  - Scab & Highlead
- Swing yarder growth
  - Higher % grappling vs scab
- Tower carriage use increasing
  - Motorised carriages
  - Motorised grapples





