

Preliminary results, September 2016

Lars Helge Frivold (NMBU-INA)

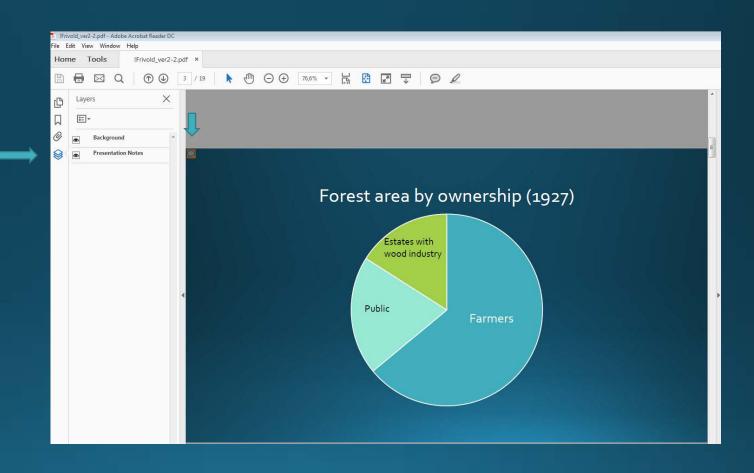
The Breakthrough of Even-Aged Logging in Norway Part II (1930–1965)

Outline

- Forest owners
- Legal framework
- Driving forces and obstacles
- Statistics
- Conclusions

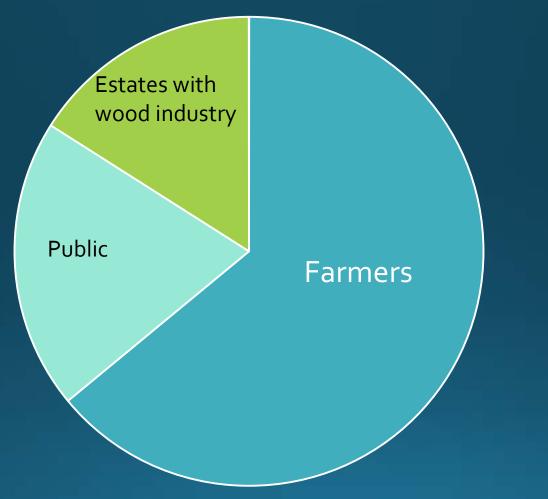
Instruction

To read the notes to each of the following slides, click on the stack of papers symbol (far left) and then move the pointer to the speech balloon symbol at the upper left corner of the slide.





Forest area by ownership (1927)





The Forest Protection Acts of 1893 and 1908

- Decentralized
- Municipal by-laws to be approved by Ministry
- Diameter-limit cuttings





Photo: LHFrivold Opočno 1975

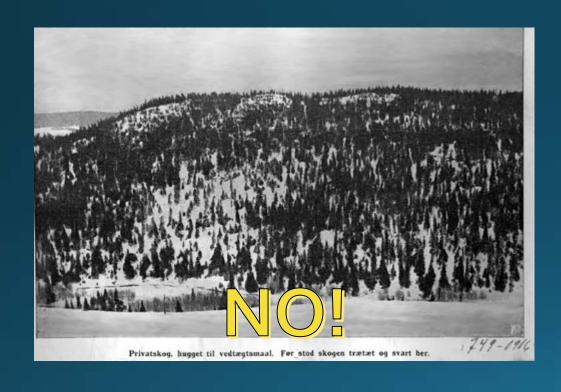
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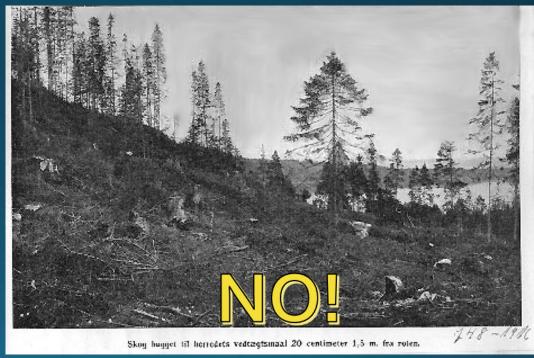
The Forest Protection Act of 1932

- Valid for all private forests
- Broke away from old harvesting systems
- Immature forests → thinnings
- Mature forests -> proper regeneration
- Forest supervisors
- Freedom under responsibility!



«Good silviculture» = ?



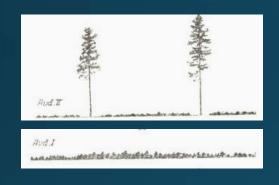


Photos: Agnar Barth

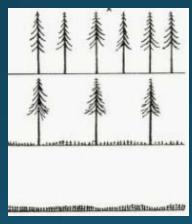


The Forest Improvement Plan, 1938

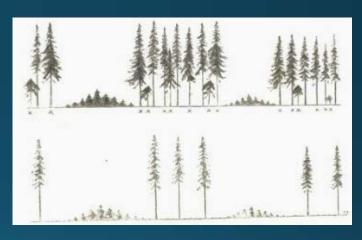
Even-aged logging methods!



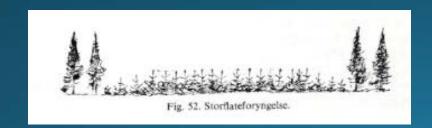
Seed trees (pine)



Uniform shelterwood



Quickly expanding groups



Clearcutting





Driving forces



Obstacles







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Roundwood prices of pulpwood, in NOK of 2015





	19205		1930s		1940s		1950s		1960s	
National Forest Inventory	&									
Research & Experience	8	©	(3)	(
Forest policy	•	•	(
Extension services	Ø	0	0	©						
Prices of small logs	60	• •	0 0	6 6	②	&				











	19205		1930s		1940s		1950s		1960s	
National Forest Inventory	&									
Research & Experience	•	Ø	②							
Forest policy	•	•	(
Extension services	©	0	0	Ø						
Prices of small logs	800	• •	0 0	00	&	(2)				
Mechanisation of logging							②			
Forest road construction				•	•	0	0	&		
Lack of nursery stock	•		•	•	•	0	•	•		
Livestock grazing							•	•	0	

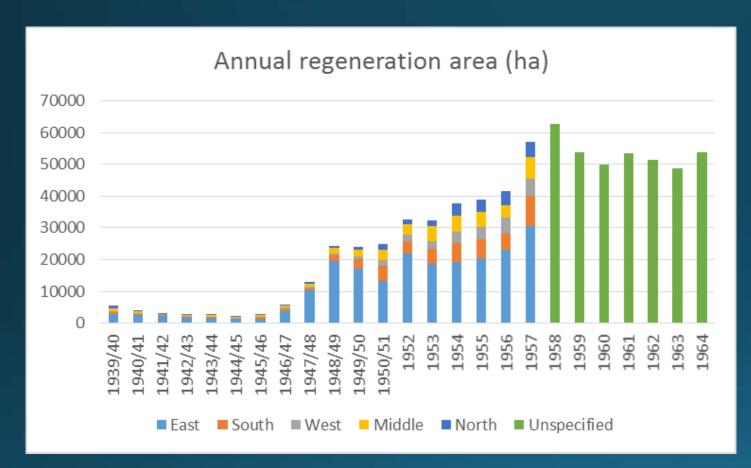




	19205		1930s		19405		1950s		1960s	
National Forest Inventory	②	(2)								
Research & Experience	•	Ø	②							
Forest policy	•	•	(
Extension services	•	•	0	Ø						
Prices of small logs	()	Ø	©	©	•	(2)				
Mechanisation of logging							②			
Forest road construction				•	•	0	0	②		
Lack of nursery stock	•		•	•	(0	•	•		
Livestock grazing		(•	•	•	
Minds of farm forest owners						•	6	?		

Statistics







Conclusions



Photo: LHFrivold

Brandbu 2006