

Description of innovation

Innovation		
Title	Targeted silviculture in Drinking Water Protection Zones	
TILLE	(DWPZ)	
Picture	(DVVF2)	
Domain	Sustainable and Risk Management	
Source of	stemwood	
wood	Stemwood	
Location	Upper Austrian Forest Department	
Implementers	DWPZ of Municipality of Steyr	
Actual status	Started	
Approach	In drinking water protection zones (DWPZ) it may be necessary to transform forest stands which are not site-conform into more stable stands. During this process it can occur that the tree species which are not site-conform become a source of wood through the specific silvicultural transformation strategies. The amount of achievable wood is medium, as the timber-cutting activities have to be in line with the requirements for DWPZ. In Austria the main tree species in such situations will be Norway spruce (Picea abies).	
Main results	Cutting of Norway spruce in DWPZ which grows on sites which are not adequate for it in terms of forest ecosystem stability could yield medium amounts of wood. This process of cutting Norway spruce on sites of e.g. beech forest hydrotopes will last until the forest transformation is fulfilled. In all cases the guarantee of forest ecosystem stability is more important than the amount of timber yield. Hence the quantities of timber released in DWPZ will be limited in all cases.	
Lessons learned	In DWPZ the amount of timber (wood) achievable through forest stand transformation strategies can be given but is limited as the guidelines for silviculture in DWPZ have to be applied. Hence no clear-cut activities are allowed there. Despite this fact it will be necessary to transform homogeneous spruce plantations into more stable forest stands. This process will release a limited amount of timber (wood).	
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Innovation assessment

Region	Steyr
Time scale	2018 -
Mobilization Potential	Less
Kind of wood concerned	Stemwood
Sustainability Potential	Very positive
Impact on environment & biodiversity	Positive
Ease of implementation	Difficult
Economic impact	Less
Job effect	Positive
Income effect	Less
Specific knowledge needed	High
Costs of implementation	Equal
Technical readiness level	Applicable
Key information for adoption	Hydrotop model