

Scenario analyses of Swedish forests

Historical and current analyses, NFI-data and modelling tools

Large-scale scenario analyses of forests and forestry are and have been an important part in the making of Swedish forest policy for several decades.

Previous analyses

Nine nationwide scenario analyses based on NFI-data have been performed since the 1930s.

The <u>Hugin-system</u> was used 1985 - 2008, and Heureka Regwise in 2015. Simulated harvest levels were assumed to equal the net growth of land available for wood supply. Such high harvest levels have not been observed except around the year 2000.

Latest analysis

The latest scenario analysis was presented in 2015 (SKA15), and was conducted by the Swedish Forest Agency and SLU.

SKA15 was based on NFI-data 2008-2012, only on productive forest land. Set-aside areas as in 2010 were held constant during the simulations. Scenarios with varying harvest intensities, varying climate scenarios, and varying setaside areas were simulated

Growth and harvest, millions m³ observed and simulated harvest from different scenario analyses

-GROWTH AND HARVEST

RESULTS



Growth and harvest for climate scenarios RCP4.5 and RCP8.5 (IPCC), and no climate effect. All productive forests land including set aside areas. Harvest= 100% of net growth on land available for wood supply.





2000	2020	2040	2060	2080	2100	2120
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Growth and harvest for harvest scenarios 90%, 100% and 110% of net growth on land available for wood supply. All productive forests land including set aside areas.



Growth and harvest for BAU scenario (100% harvest) and scenario where set-aside area was doubled. All productive forests land including set aside areas.



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