

Central European softwood supply

Constrained industry growth post-bark beetle

March 2022



WOOD RESOURCES INTERNATIONAL



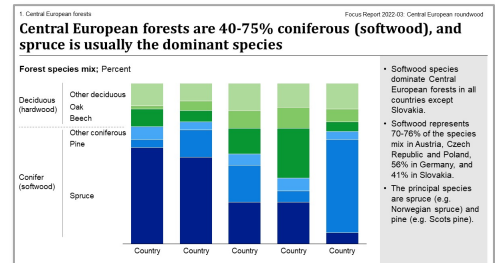
Central European roundwood markets are at a turning point. Forests in much of the region have recently suffered extensive damage from a bark beetle outbreak, leading to temporary increases in harvest, lumber production and log export. An adjustment is inevitable in coming years as salvage winds down and forest management adapts in the wake of the outbreak. This report provides a view on how Central European roundwood supply will evolve to 2030, implications for forest industries in the region, and the likely impact on global softwood log and lumber markets.

Contents

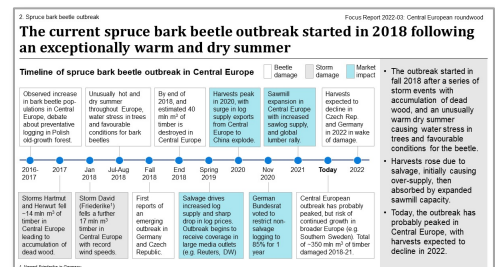
1. **Central European forests and forest industry**
 - Forest area, distribution and species mix
 - Forest ownership
 - Roundwood production, trade and prices
 - Forest industry structure and roundwood demand
2. **The spruce beetle outbreak**
 - Characteristics of the beetle and risk factors
 - Timeline of the outbreak and current status
 - Extent of forest damage and salvage harvests
3. **Impact of bark beetle on wood markets**
 - Development of harvest and wood supply
 - Analysis of where the additional wood supply went
 - Impact on log trade and prices
 - Growth in Central European sawmill sector
4. **Outlook for wood supply**
 - Forecast beetle damage to 2025
 - Scenarios for roundwood harvest to 2030
 - Implications for log trade and industrial wood supply
 - Long-term supply potential of forests by country
5. **Implications for European markets**
 - Expected market balance for sawlogs and pulplogs
 - Projected price movements for sawlogs and pulplogs
 - Implications for local forest industries
 - Long-term implications of adapted forest management
6. **Implications for global markets**
 - Outlook for European softwood log exports
 - Outlook for European softwood lumber exports
 - Further climate-change related risks to wood supply

Example exhibits

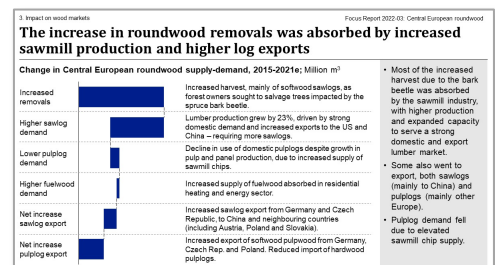
Spruce and other species mix in Central European forests



Timeline of the bark beetle outbreak, storm damage, and market impact



Analysis of the different outlets for additional roundwood supply



Questions the report helps answer

- How has the bark beetle outbreak impacted CE wood supply and forest industries?
- What is the current status of the outbreak and the outlook for salvage harvests?
- What impact will the outbreak and elevated harvest levels have on future harvests from CE forests?
- What are the implications for wood supply to CE industry, log prices and trade?
- What role to CE forests play on global markets?
- How will CE log and lumber export evolve post-bark beetle?

Who the report is most relevant for

- **Forest owners** in CE and broader Europe.
- **Lumber, panel, pulp and pellet producers** in CE and broader Europe.
- **Importers** of CE logs and lumber.
- **Exporters** of softwood logs and lumber to Asia and North America.
- European forestry **policy-makers** and forest industry **trade associations**.
- **Analysts, consultants, financial institutions** and **industry associations**.

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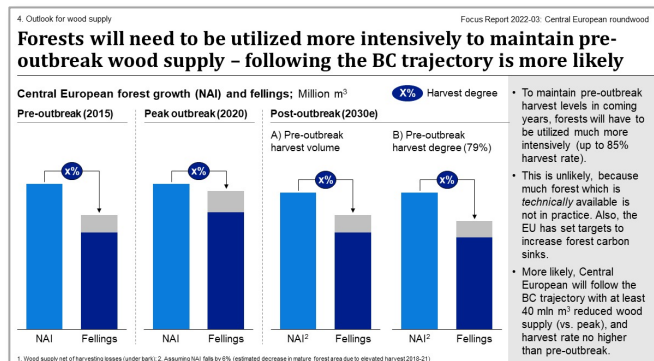
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What you get:

- 70-page report in easy-to read slide format
- One of authors available for 45 min interview
- Access to ppt slides can be discussed

Example exhibits

Scenarios for forest growth and harvest to 2030



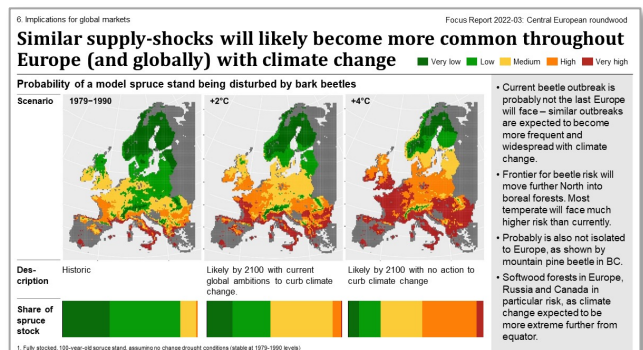
Impact of bark-beetle adapted forest management

5. Implications for European markets
Focus Report 2022-03: Central European roundwood

Forest owners will need to adapt forest management to mitigate risk of future bark beetle outbreaks

Risk factors for bark beetle outbreak	Likely changes in forest management	Implications for woodmarkets
Hot dry weather; Water-stressed trees and favorable conditions for beetle. Increasing with climate change.	Increased focus on biodiversity (tree species and full forest ecosystem) to increase forest resilience.	Increasing supply risk with future outbreaks. Reduced allowable harvest with more focus on biodiversity.
High share of spruce.	Diversifying species mix; e.g. Douglas-fir, fir, pine, larch, beech, oak. More mixed forests (species, age class).	Reduced share of spruce, more other species.
Mature / overmature stands (old trees).	Shorter rotations; e.g. in Germany considering 40-50 yrs, in Czech Rep. from 120 down to 70-80yrs. More active forest management.	Smaller diameter logs, higher overall yield. Potentially increased harvesting in private forests.
Sun-exposed trees; exposed to south, limited branches or small canopy.	Reduced thinning in old stands.	Limited impact (smaller logs at final harvest, but reduced share of smaller thinning logs).
High levels of dead wood.	Rapid and compete clean-up after storms.	Sharper swings in prices, and need to quickly ramp up/down production.
Proximity to infected trees (~100 meters considered critical).	Buffer zones around infected areas.	Limited impact.

Future risk of beetle damage throughout Europe



For more information or to order

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