

State of the Forest

Update 2018



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State of the Forest 2018
Department of Lands and Forestry
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In response to the Forestry Review, the Department of Lands and Forestry is currently assessing how the State of the Forest is presented. While that work is ongoing, this update provides the available current information for the figures presented in the 2016 State of the Forest report and should be considered an addition to that report. The figures presented here are updates and add-ons to the ones presented in the 2016 report. Where available, the most recent data has been added to a selection of the original figures. Included in this update is the data from the most recent five-year cycle of permanent sample plots that was completed during the 2017 field season. The figures from the 2016 report related to the permanent sample plots (Figures 2.2-2.6) are updated here. In addition to the updated figures, several new figures are included in section 8.4.

The description of the data used and the context for the figures presented here were provided in the 2016 State of the Forest document. Readers are encouraged to refer to the original report for a more complete understanding of the figures contained in this 2018 update.

The 2016 State of the Forest document can be accessed here:

https://novascotia.ca/natr/forestry/reports/State_of_the_Forest_2016.pdf

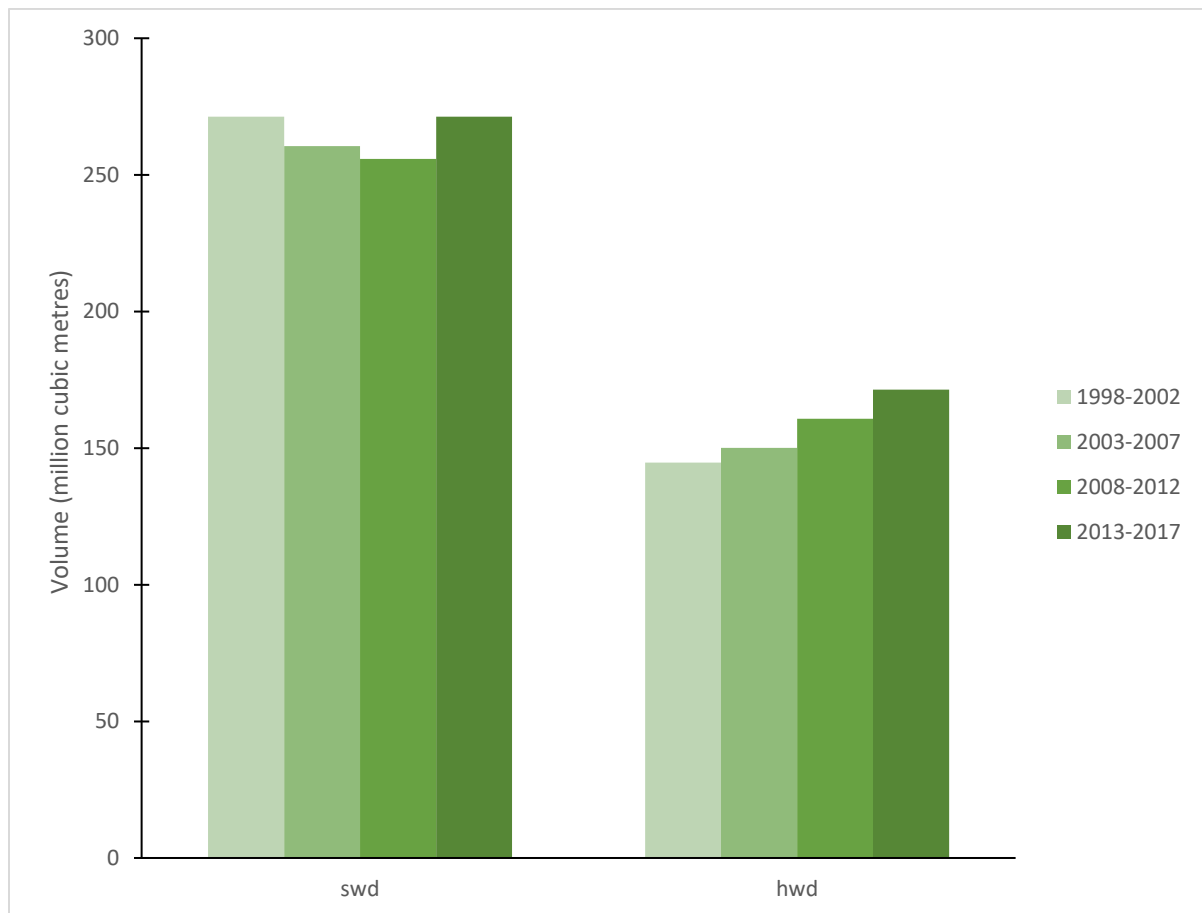


Figure 2.2 Softwood (swd) and hardwood (hwd) merchantable volume; estimates based on 7 consecutive 5-year ground-measured forest inventory cycles between 1998 and 2017.



Figure 2.3 Softwood (swd) and hardwood (hwd) merchantable volume growth and loss (harvesting + mortality) of softwood and hardwood tree species; estimates based on the difference between the 3 most recent 5-year ground forest inventory cycles (net difference indicated above bars).

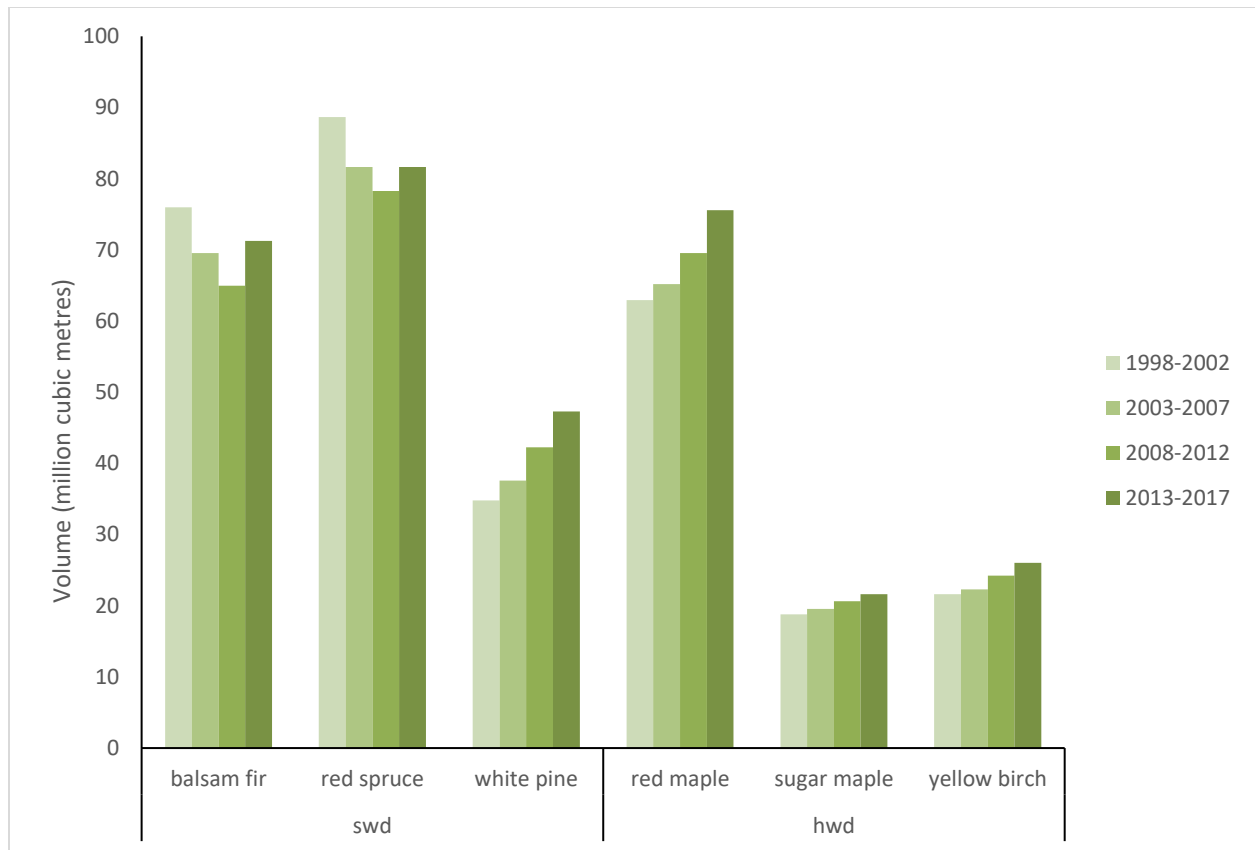


Figure 2.4 Merchantable volume estimates, based on 4 consecutive 5-year ground-measured forest inventory cycles for the 3 most abundant softwood (swd) and hardwood (hwd) commercial tree species.

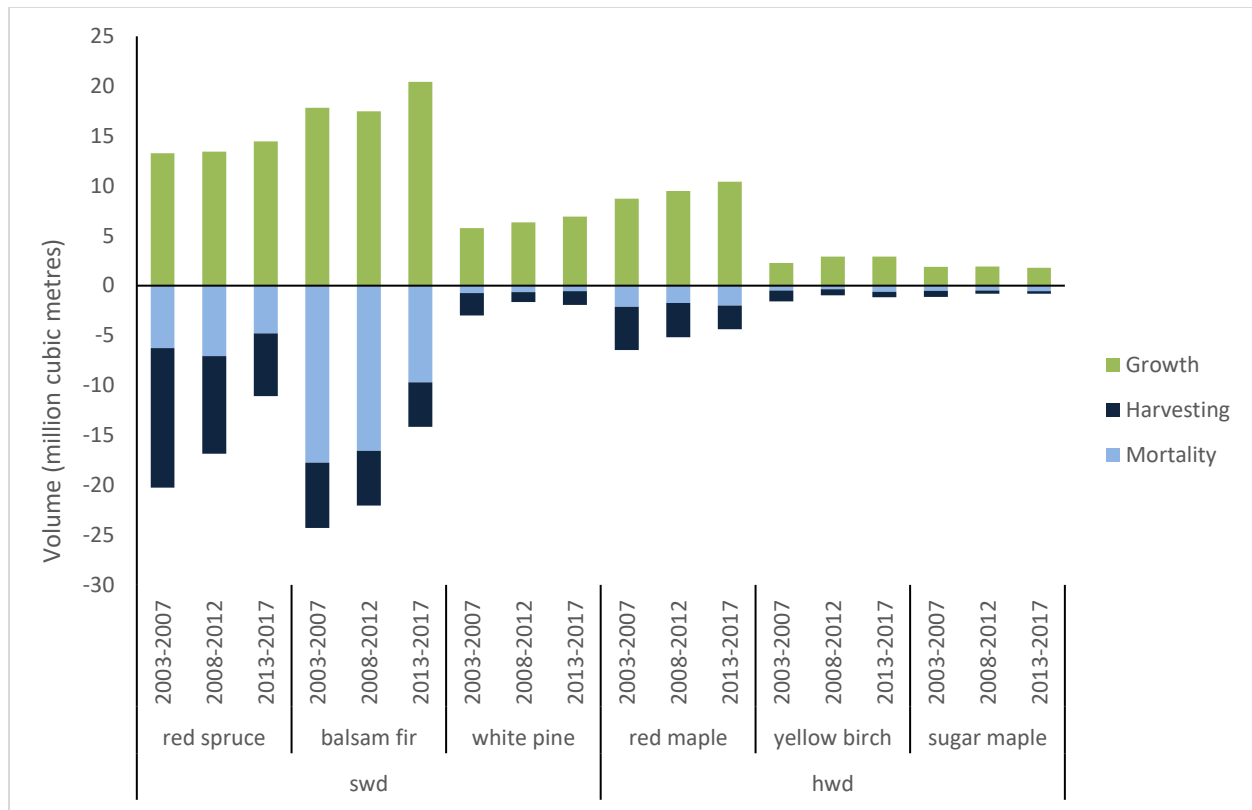


Figure 2.5 Merchantable volume growth and loss (harvesting + mortality) of 3 most abundant softwood (swd) and hardwood (hwd) commercial tree species; estimates based on the difference between 3 most recent 5-year ground measured forest inventory cycle

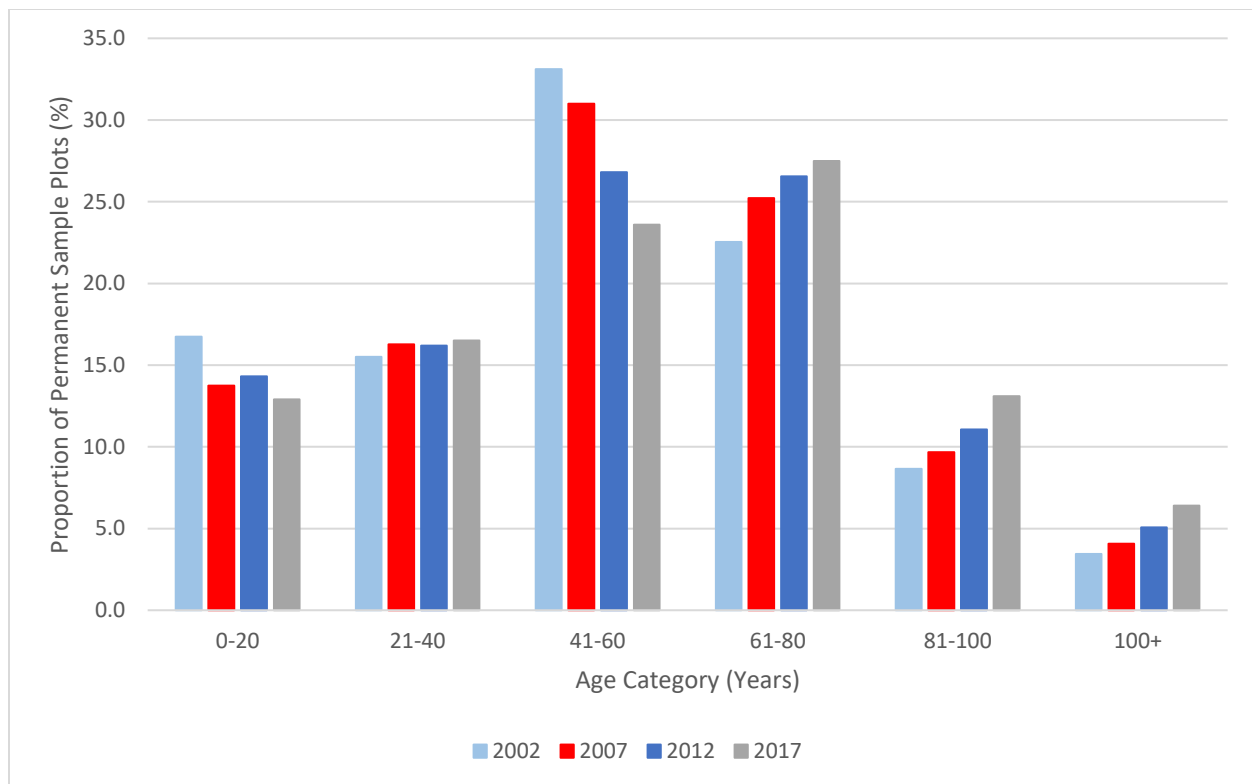


Figure 2.6 Proportion of permanent sample plots by age category over 4 consecutive 5 year inventory cycles: 1998-2002, 2003-2007, 2008-2012, and 2013-2017.

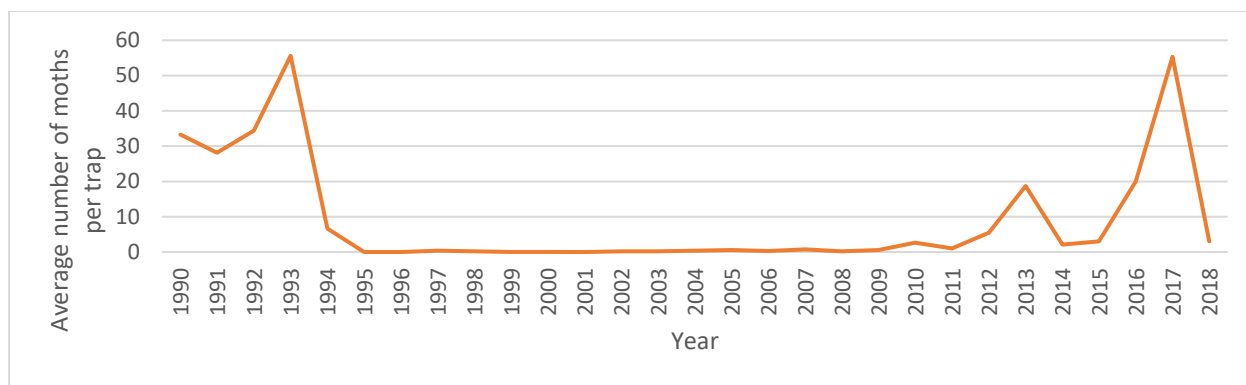


Figure 3.2.1. Average trap catch for spruce budworm pheromone traps deployed across the province, 1990–2018.

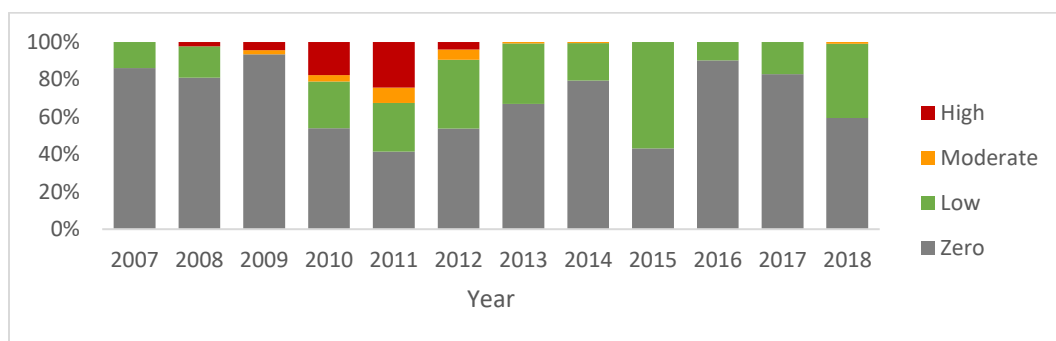


Figure 3.2.2. Egg niches for balsam fir sawfly in the Eastern region (%) 2007–2018.

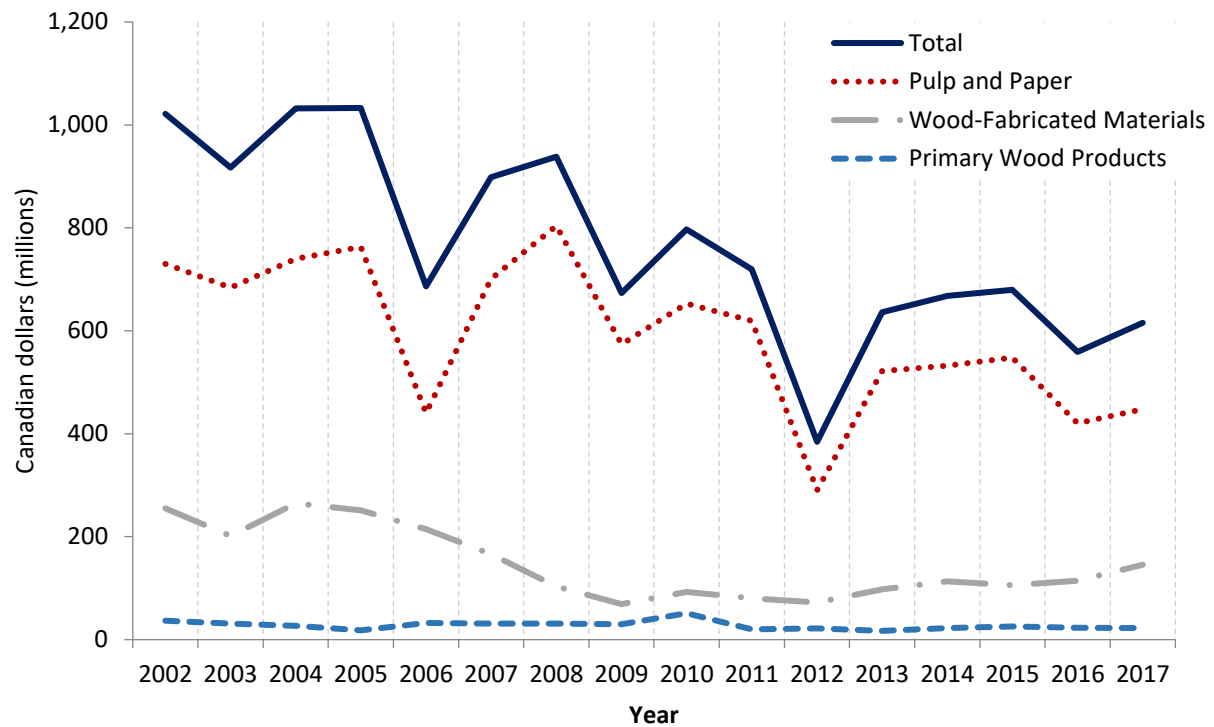


Figure 7.1.1. Export revenue in Canadian dollars (millions) from 3 major forest industry sectors, 2002–2017 (Site accessed March 2019 <https://cfs.nrcan.gc.ca/statsprofile/employment/ns>).

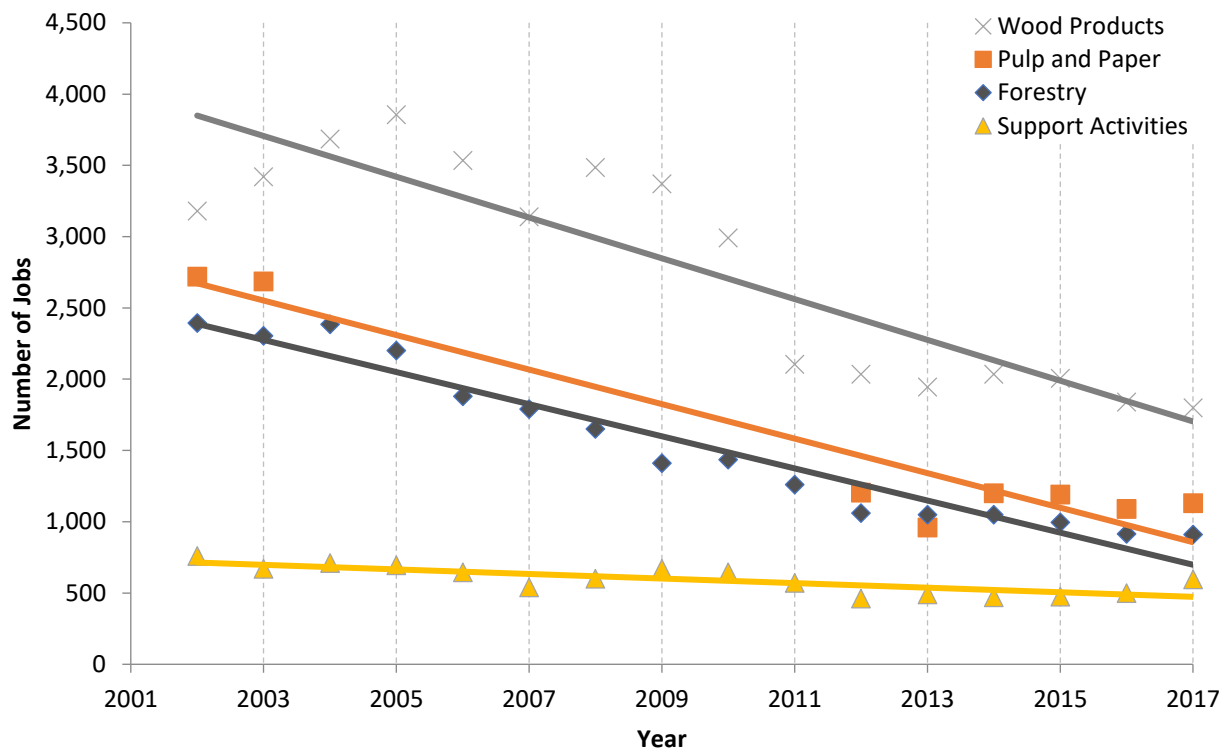
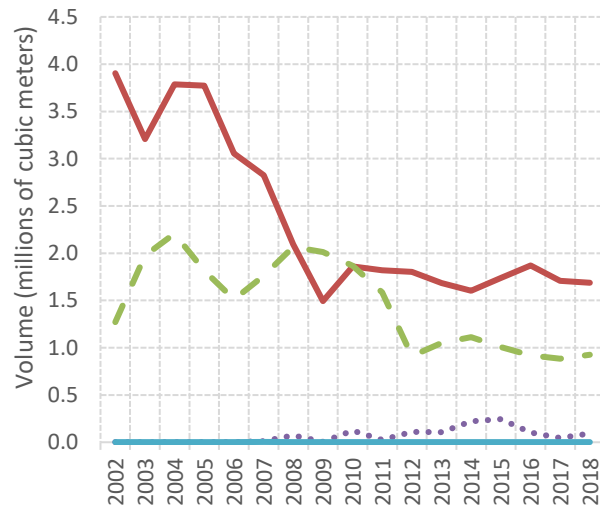


Figure 7.1.2. Direct jobs in the forest sector, 2002–2017. Note that the figure updates historical data based on changes to the source website (accessed March 2019 <https://cfs.nrcan.gc.ca/statsprofile/employment/ns>).

Softwood



Hardwood

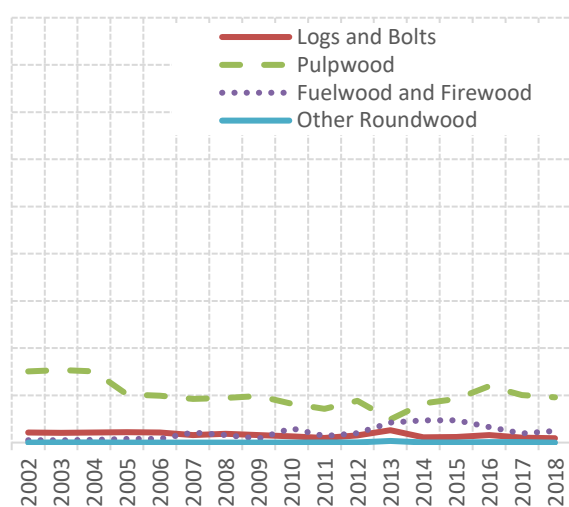


Figure 7.2.1: Softwood (swd) and hardwood (hwd) primary forest products acquired volume, 2002– 2018.

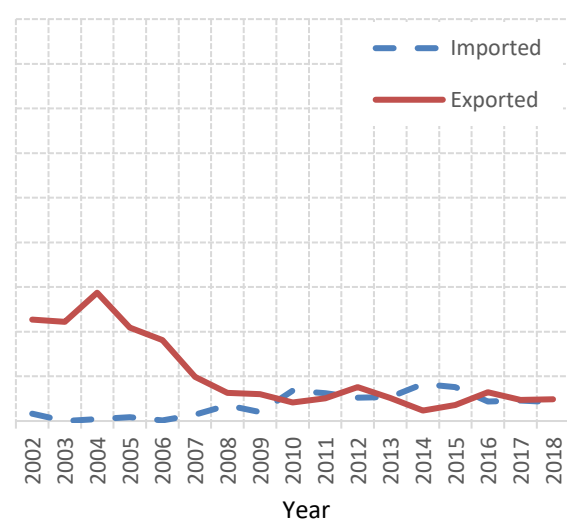
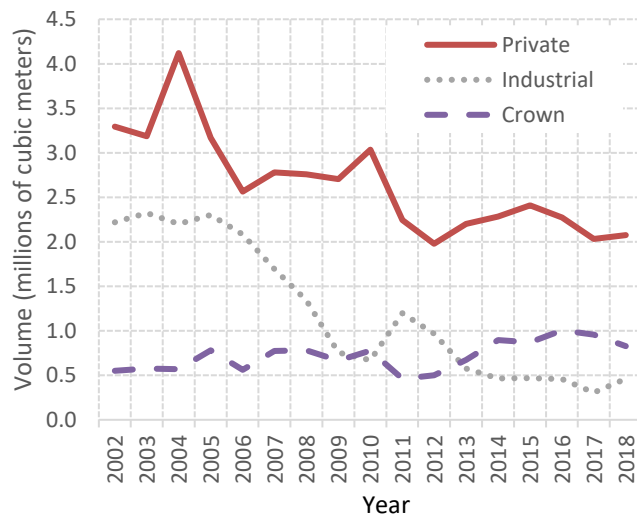


Figure 7.2.2. Left: Volumes harvested, by land ownership category, 2002–2018. Right: Exported and imported volumes, 2002–2018.

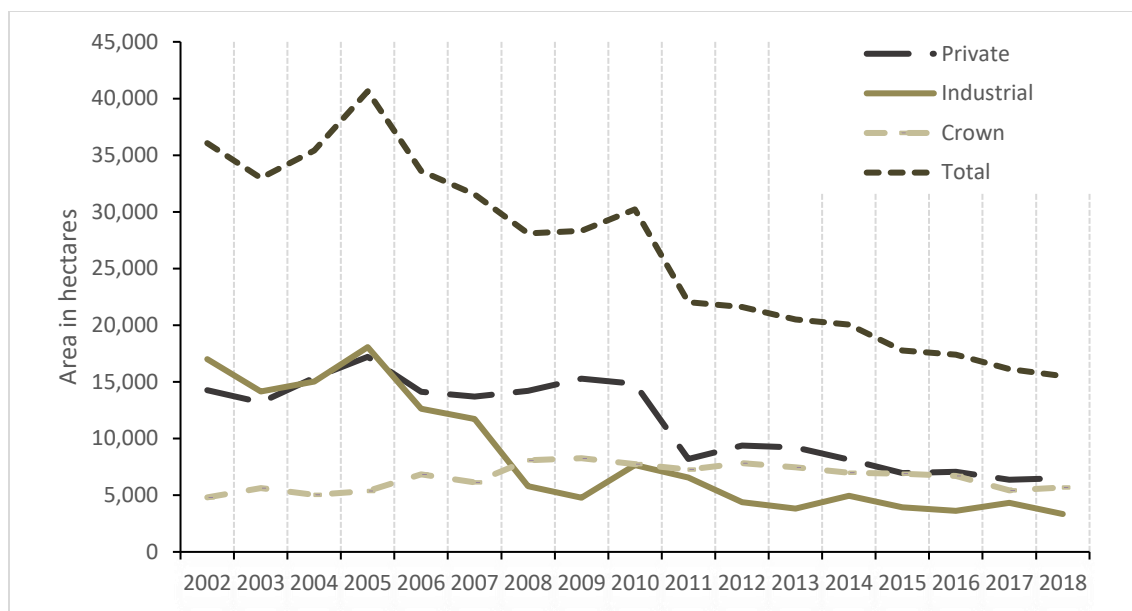


Figure 7.3.1. Areas of silviculture performed, by land ownership category, 2002 to 2018.

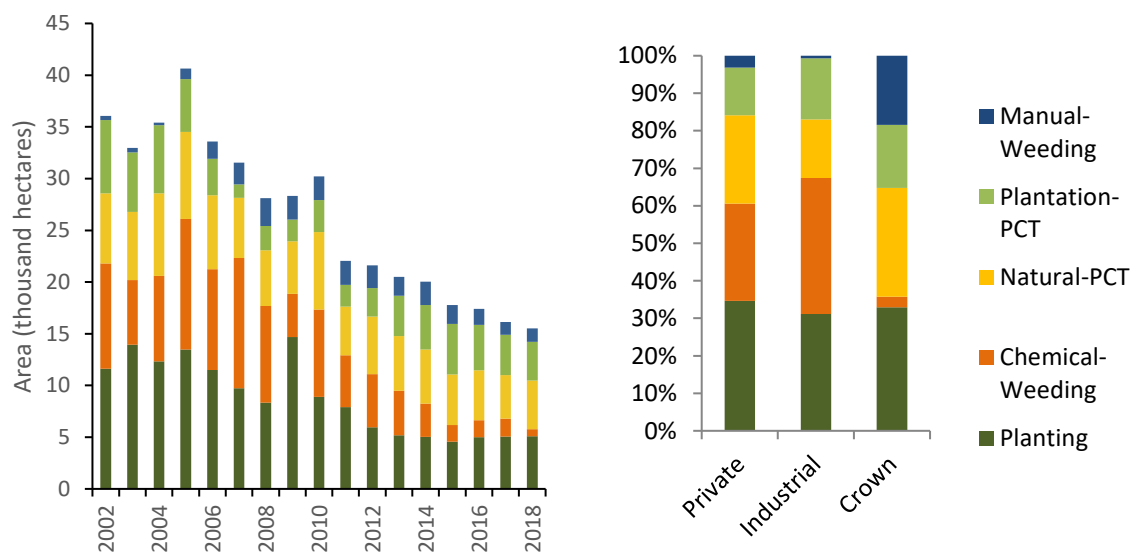


Figure 7.3.2. Left: Total area of silviculture treatments. Right: Breakdown of treatment area by ownership category (%), 2002–2018 (PCT = pre-commercial thinning).

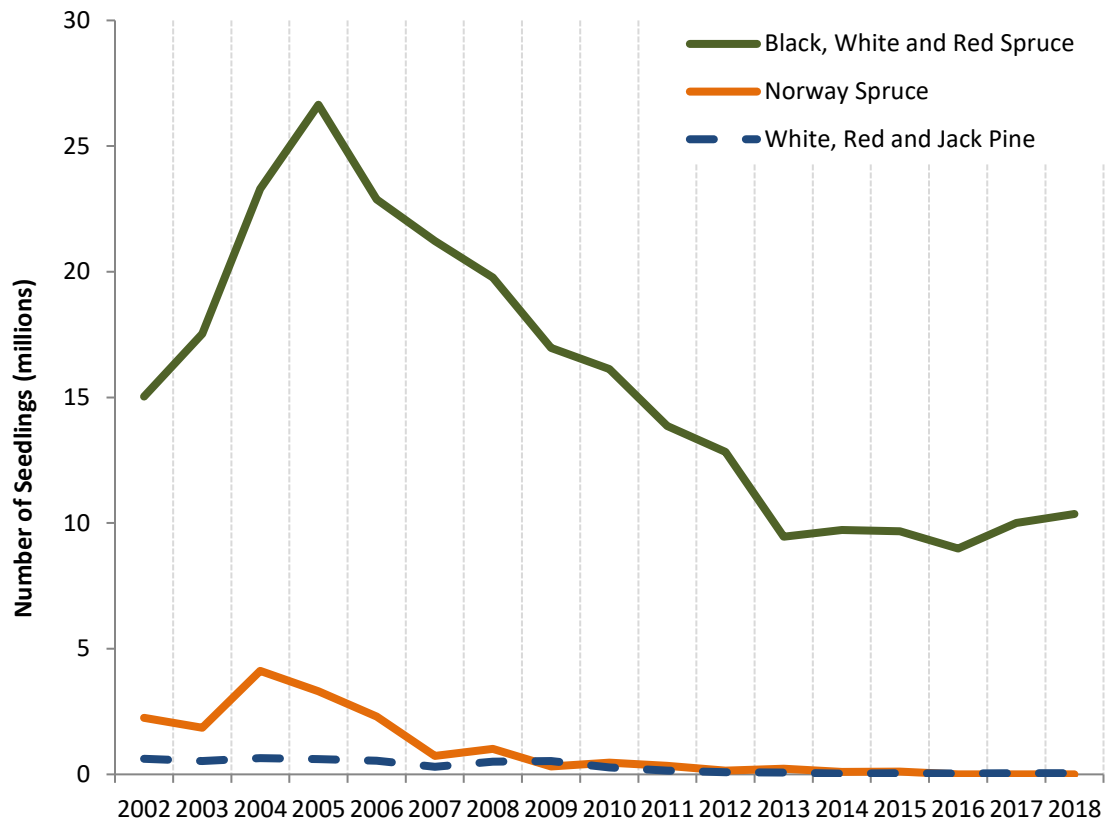


Figure 7.4.1. Softwood seedlings planted in Nova Scotia, by species group, 2002–2018.

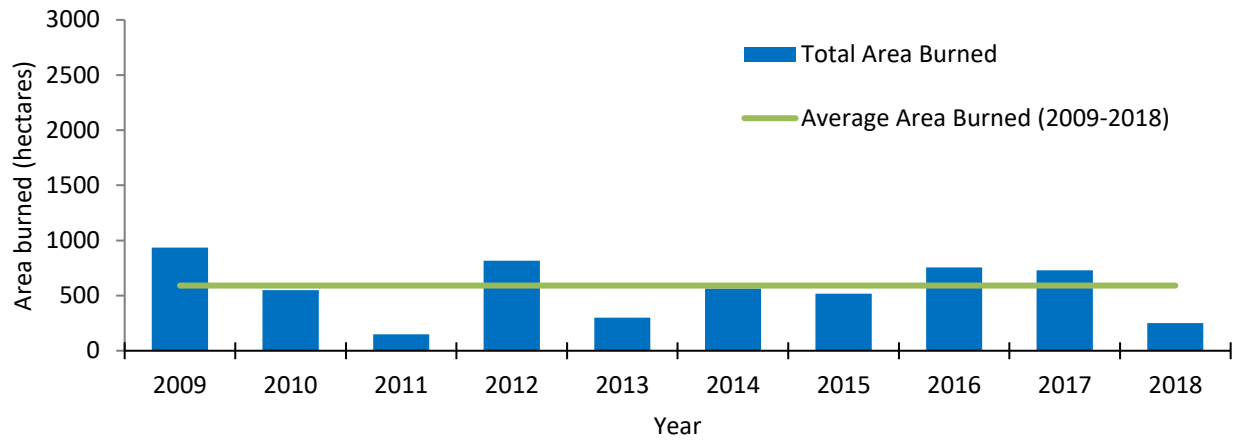


Figure 8.1.1. Total wildfire area burned per year between 2009 and 2018, and 10-year average of area burned between 2009 and 2018.

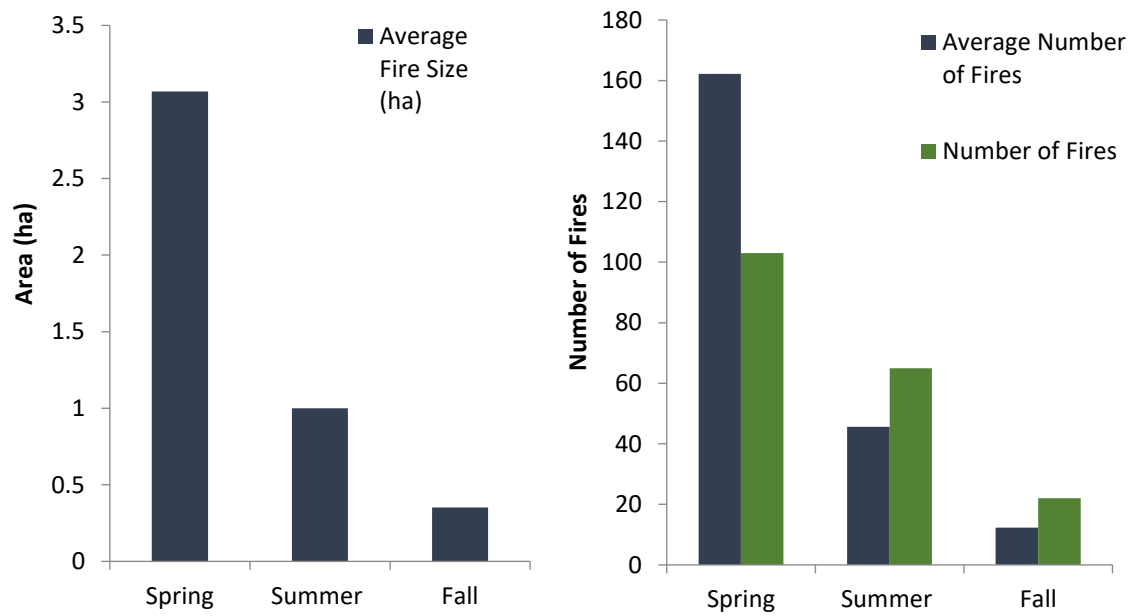


Figure 8.1.2. Left: Average fire size per season. Right: Average number of fires per season and actual number of fires in 2018. Averages based on 2009 to 2018 data.

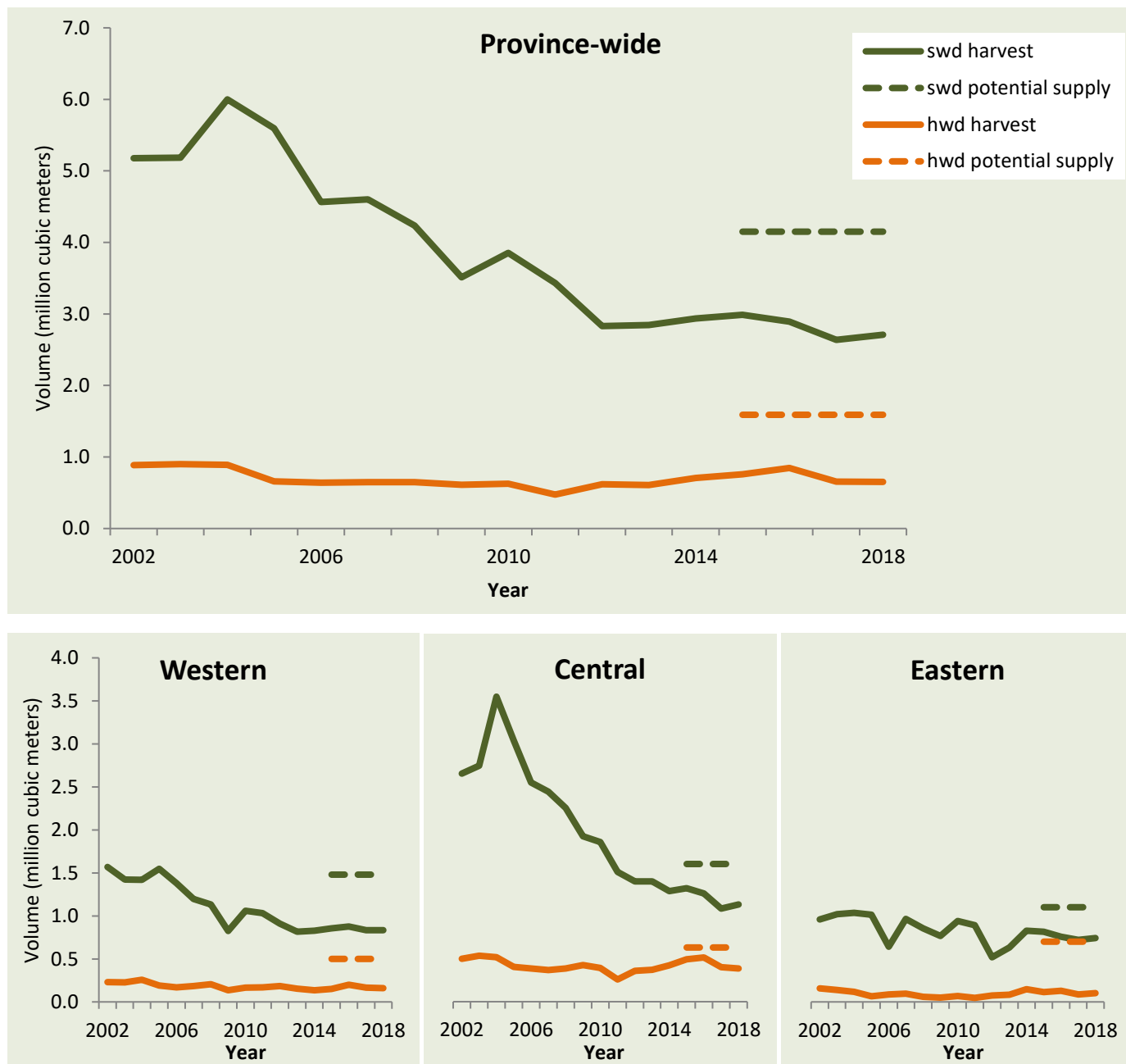


Figure 8.3.1. Province-wide and regional softwood (swd) and hardwood (hwd) actual harvest volume statistics, 2002–2018; dashed lines represent the potential supply estimate for the 2016–2018 period. Note that the potential supply estimate is the estimate as calculated prior to the Forestry Review process.

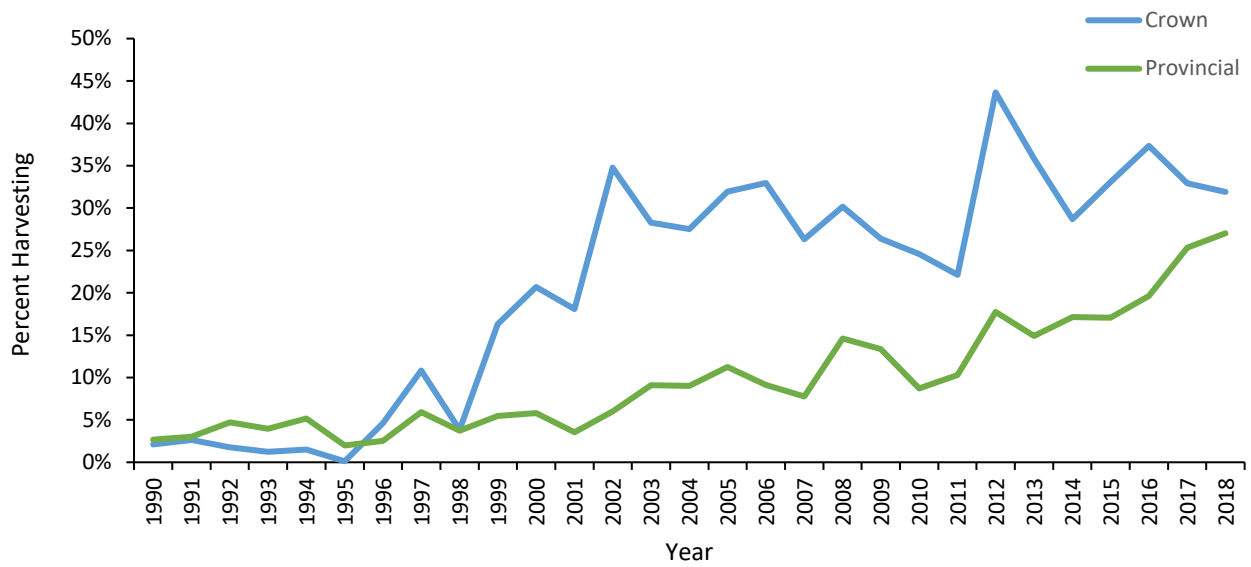
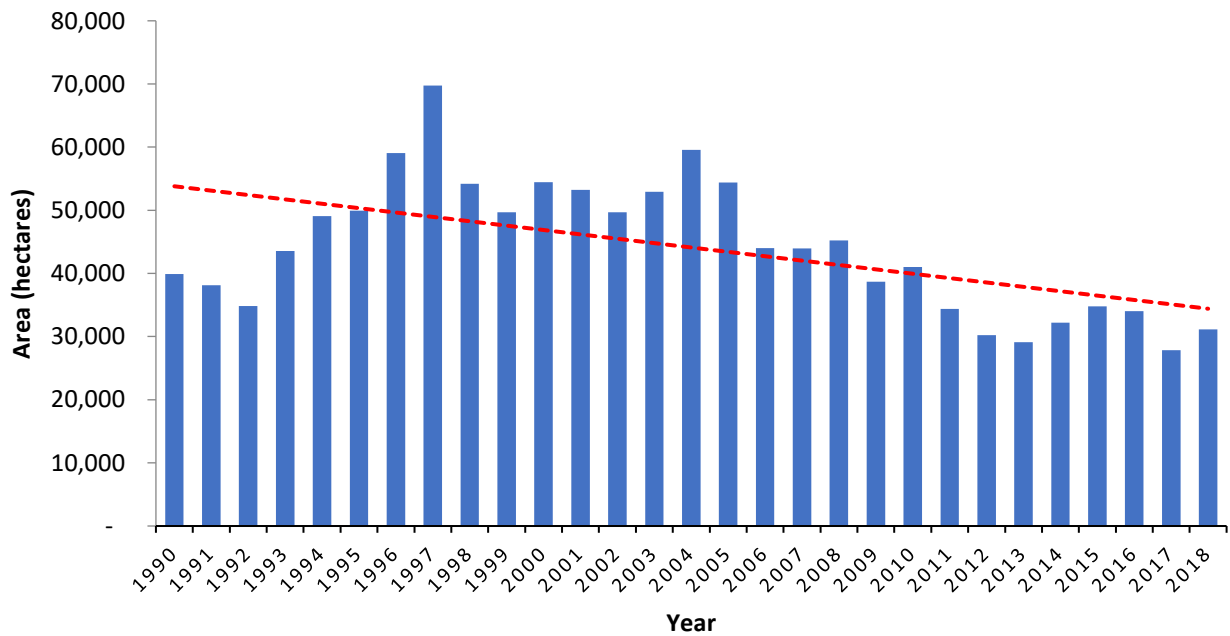
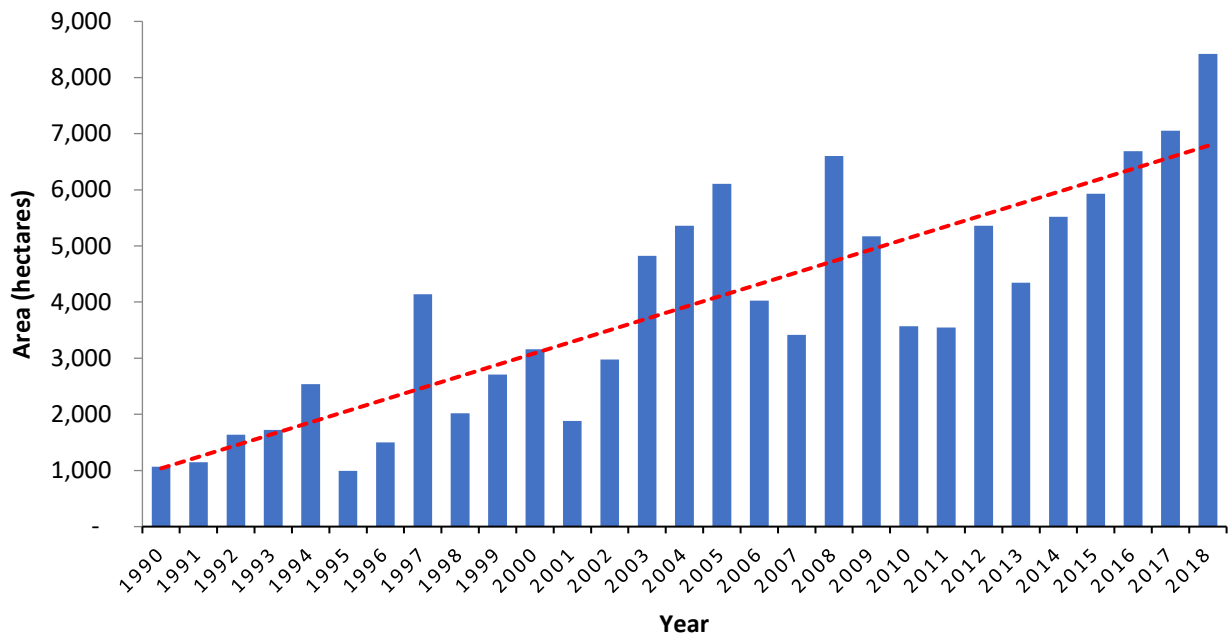


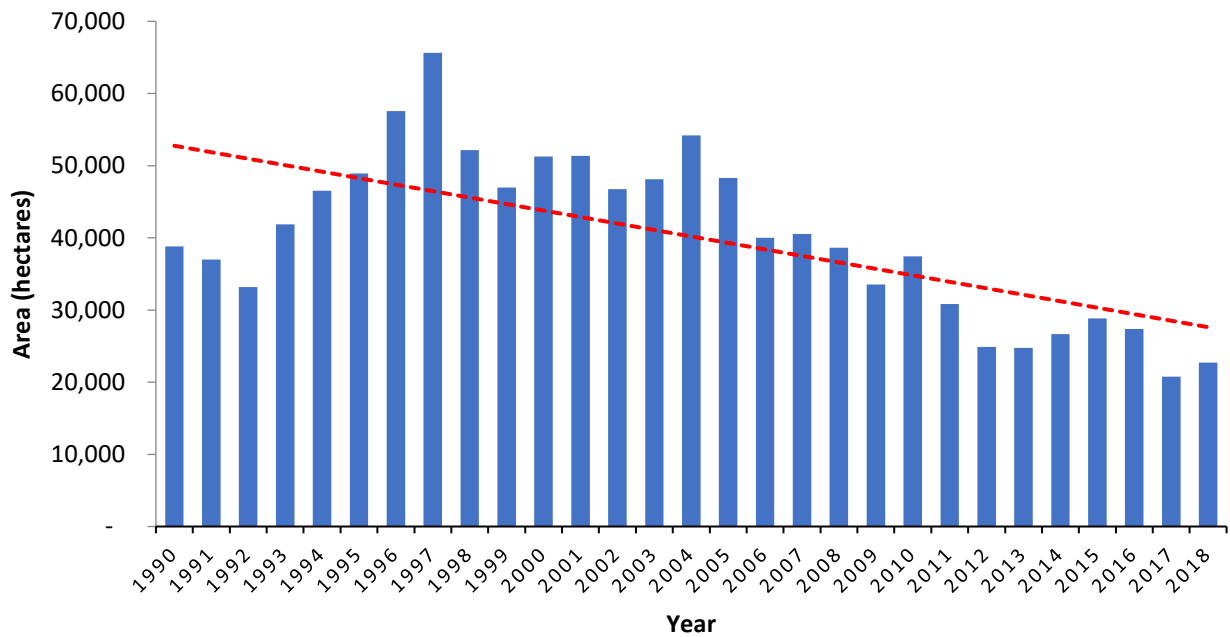
Figure 8.4.1. Provincial summary of the percentage of non-clearcut harvesting on Crown lands and across all land tenures from 1990-2018.



New: Figure 8.4.2 Provincial summary of the area harvested by all methods across all land tenures from 1990-2018. Dashed line represents linear trend.



New: Figure 8.4.3 Provincial summary of the area harvested using non-clearcut methods across all land tenures from 1990-2018. Dashed line represents linear trend.



New: Figure 8.4.4 Provincial summary of the area harvested using clearcut methods across all land tenures from 1990-2018. Dashed line represents linear trend.