

Management inventory

A thorough basic inventory of 0.5 to 1.0% of the forest areas (which should be spread over the complete forest area and cover all pre-identified forest types), will provide a solid base for establishing the long-term potential of the forest and the feasibility of a forestry enterprise.

Harvesting inventory

Based on pre-harvest forest inventories a proper selection of the right species and sizes can be made, taking into account accessibility of certain tree locations and avoiding areas in which the density of commercial interesting species is too low. This will improve the harvest planning and finally reduce harvesting and extraction costs per harvested volume. Due to the pre-harvest forest inventory (commonly conducted 6 to 12 months prior to harvesting) the available stock is known, which makes sawing to order possible. Pre-harvest inventories do result in higher upfront costs, they are however partly or completely paid back by more efficient harvesting e.g. higher daily output, less roads to be constructed and maintained, and a stronger position in the market due to the possibility to saw to order.



Inventory turned expectations down

A company operating in the Amazon expected very high volumes for the future based on visual expectations in several locations of the forest. However, based on a stratified forest inventory these expectations needed to be turned down. Expected commercial volumes dropped with about 25% compared to current harvesting levels (see figure). The reason was behind this dramatic decrease was a change in combinations of forest types in the future harvest areas. The prevailing forest types in future harvest areas contain much less volumes of commercial tree species, some species were even completely or almost absent. This company also put a lot of investments and energy in introducing Lesser Used Species on the international market (and they are actually quite successful). However, several of these species' volumes would hardly or not occur in future harvest areas.



