



Introducing nitrogen-fixing species in short rotation coppice

Cécilia Gana

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INTRODUCING NITROGEN-FIXING SPECIES IN SHORT ROTATION COPPICE

CÉCILIA GANA

This paper is the English abstract of: « Introduction d'espèces fixatrices d'azote au sein de plantations à courte rotation » – Revue forestière française, 4-2014. <http://documents.irevues.inist.fr/handle/2042/4752>.

ABSTRACT

In short rotation coppice (SRC) plantations, there may be a risk of soil fertility decline requiring fertilizer input that is liable to be a source of pollution and reduce the system profitability. One option is the development of mixed-species plantations, associating a nitrogen-fixing species with the species of economic interest (acacia/eucalyptus, alder/poplar, black locust/poplar, etc.). The nitrogen input, resulting from the introduction of the nitrogen-fixing species could enhance the primary production and modify the carbon partitioning between above and belowground parts of the trees. The current studies will allow to precise the positive or negative effects that prevail within a mixed plantation of poplar and black locust.

Cécilia GANA

INRA Centre de Nancy-Lorraine
UMR Écologie et écophysiologie forestières
F-54280 CHAMPENOUX
(cecilia.gana@nancy.inra.fr)