

Knowledge Exchange records from 01/04/2013 – 08/07/2013

CATEGORY 2 - Peer-reviewed journal articles

Record ID 4010240
Title: **Genetic relationships between wood quality traits and diameter growth of juvenile core wood in Sitka spruce**
Parent Item: Canadian Journal of Forest Research
Parent item: Vol: 43 No: 1
Author: Kennedy, S.G.
Co-author: Cameron, A.D.; Lee, S.J.
Imprint: Ottawa : National Research Council Canada, 2013
Source: Canadian Journal of Forest Research 43 (1)
Reference: 1-6 . 50refs.
dx.doi.org/10.1139/cjfr-2012-0308
Main subject: FOREST RESEARCH
Subjects: ROTATION; JUVENILE WOOD; SAWN BATTENS; PICEA SITCHENSIS; WOOD PROPERTIES; PILODYN; GENETIC RELATIONSHIPS; WOOD QUALITY; DIAMETER GROWTH; GREAT BRITAIN; UK; FCRA AUTHOR; ; 2014-FR-CAT-2
Abstract: The trend towards shorter rotations in planted conifer stands has resulted in a reduction in the proportion of mature wood relative to juvenile core wood, raising concerns that the mechanical performance of sawn battens will be affected. The potential to improve the wood quality of the juvenile core of Sitka spruce (*Picea sitchensis* (Bong.) Carrière) without compromising growth rate was investigated.
Class: Electronic resource
WWW: <http://www.ingentaconnect.com/content/nrc/cjfr/2013/00000043/00000001/art00002>
Bib type: A
GMD: Periodical article
Entered: 16/05/2013 0000008b
Updated: 25/06/2013 0000008b

Record ID 4010245
Title: **Dynamic conservation of forest genetic resources in 33 European countries.**
Author: Lefevre, L
Co-author: Koskela, J.; Hubert, J.; Kraigher, H.; Longauer, R.; Olrik, D.C.; Schüler, S.; Bozzano, M.; Alizoti, P.; Bakys, R.; Baldwin, C. et al
Imprint: 2013
Source: Conservation Biology 27 (2)
Reference: 373-384. ill. 34refs
Main subject: FOREST CONSERVATION
Subjects: 2014-FR-CAT-2; DYNAMIC CONSERVATION; GAP ANALYSIS; GENE CONSERVATION; INDICATORS; EUROPE; FCRA AUTHORS
Abstract: Dynamic conservation of forest genetic resources (FGR) means maintaining the genetic diversity of trees within an evolutionary process and allowing generation turnover in the forest.
Bib type: A
GMD: Periodical article
Entered: 25/06/2013 0000008b

Record ID 4010248
Title: **Spring phenology shows genetic variation among and within populations in seedlings of Scots pine (*Pinus sylvestris* L.) in the Scottish Highlands.**
Author: Salmela, M.J.
Co-author: Cavers, S.; Cottrell, J.E.; Iason, G.R.; Ennos, R.A.
Imprint: Taylor and Francis, 2013
Source: Plant Ecology and Diversity
Main subject: GENETICS
Subjects: FCRA AUTHOR; 2014-FR-CAT-2; ADAPTATION; GENETIC DIFFERENTIATION; SPATIAL HETEROGENEITY; TEMPORAL HETEROGENEITY; VARIATION
Abstract: Background: Genetic differentiation in phenotypic traits is often observed among forest tree populations, but less is known about patterns of adaptive variation within populations. Such variation is expected to enhance the survival likelihood of extant populations under climate change.

Aims: Scots pine (*Pinus sylvestris*) occurs over a spatially and temporally heterogeneous landscape in Scotland. Our goal was to examine whether populations had differentiated genetically in timing of bud flush in response to spatial heterogeneity and whether variation was also maintained within populations.

Bib type: A
GMD: Periodical article
Entered: 26/06/2013 0000008b
Updated: 08/07/2013 B00000115