Caisse Phyto Forêt (Forest protection and provident fund) / Traitment against fomes

The Caisse Phyto Forêt, a South-West France forest protection and provident fund, was created at the initiative of the South-West France Forestry Syndicate in 2013 to provide concrete phytosanitary solutions for the Landes de Gascogne massif. The purpose of this association (law 1901) is to act in matters of uninsurable phytosanitary risks. The Caisse Phyto Forêt is working on the development of a method to prevent the contamination of stumps and healthy trees by the fomes, a root fungus that causes significant damage to conifers by reducing the quality of the wood and causing mortality in stands.

Currently, the dosage of the blue dye recommended by the manufacturer does not allow, in certain cases, to sufficiently color the product and to verify the correct application of the product. It would be necessary to multiply by 3 or 4 the dose of dye necessary, meaning an additional cost for the operator and thus the forest owner.
Operators and contractors must undergo training to obtain a plant protection product certificate (CERTI-PHYTO).
It is now necessary to communicate more widely with the foresters of the massif in order to encourage them to treat the strains and stem the spread of contaminations.

In order to avoid contamination of the stands, the treatment against fomes is applied to each cut of wood (depressing, thinning, and clearcutting). The product to be used is a powder to be diluted in water containing spores and mycelia of a fungus endemic to the massif, the Phlebiopsis gigantea natural strain VRA-1835, with an antagonistic action to the development of the resinous fomes. The only one approved in France is the Rotstop, manufactured and sold by AROLE. As the mixture is colourless, a blue dye should be added to check the correct spray on the stumps.

Application must be made within 3 hours after cutting, either by manual painting or mechanical spraying by adapting systems at the harvester head: using a guide spraying the product through holes distributed along the guide, or with a nozzle that sprays the product in a single outlet. The solution is then spread over the stumps when the trees are cut.

Loggers need to equip their machines with one of two systems to automate processing.

Treatment can take place throughout the year and to be effective, 80% of stumps must be treated.

DETAILS

ORIGIN OF WOOD

Forest

TYPE OF WOOD

Stemwood

KIND OF WOOD CONCERNED

Stemwood

IMPACT ON ENVIRONMENT & BIODIVERSITY

Protection of healthy trees contamination by fomes with registered products

INCOME EFFECT

NA

EXPLOITATION POTENTIAL

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HUB

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ECONOMIC IMPACT

Implies an additional cost for forest owners

SPECIFIC KNOWLEDGE NEEDED

MOBILIZATION POTENTIAL

NA

SUSTAINABILITY POTENTIAL - VALUE

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EASE OF IMPLEMENTATION

Medium: need to adapt harvesting machines with new product dispersion systems

EASE OF IMPLEMENTATION - EVALUATION

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KEY PREREQUISITES

NA

TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

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JOB EFFECT

NA

COSTS OF IMPLEMENTATION (EURO - €)

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MORE DETAILS

CHALLENGE ADDRESSED

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DOMAIN

Forest management, ecosystem, resilience

Forest disturbances, risks

TYPE OF SOLUTION

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KEYWORDS

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DIGITAL SOLUTION

No

INNOVATION

No

COUNTRY OF ORIGIN

France

SCALE OF APPLICATION

Regional/sub-national

START AND END YEAR

2013 -

CONTACT DATA

OWNER OR AUTHOR

REPORTER

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REFERENCES AND RESOURCES

MAIN WEBSITE

http://www.maisondelaforet-sudouest.com/tag/caisse-phyto-foret/

PROJECT WEBSITE

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PROJECT REFERENCE

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RESOURCES

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PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood

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