

Ask Valerie-testaus Joensuu 29.11.2016

Michael den Herder

Valerie

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Select the languages that you understand in your profile

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This can be a description...

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Which is your preferred language?

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 ☐ French
 ☐ Finnish
 ☐ Italian
 ☒ Dutch
 ☐ Spanish

Save Languages

Based on your language selection, the autocompletion responds:

- If no language is selected, autocompletion is on English and Latin (botanical) terms
- If one or more languages are selected, autocompletion is on those languages and on Latin

*Only terms in
French and Dutch
appear*



organo

organofosfaat

organophosphoré

organofosfaat pesticide

organisme organisme organisme

organische P

organische stof organische stof

organische bodem

organische laag

organisme du sol

organisme utile



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what are the benefits of wood ash for forest soil

what are the benefits of wood ash for forest soil

what are the benefits of wood ash for forest soil pH

what are the benefits of wood ash for forest soil DNA

what are the benefits of wood ash for forest soil life

what are the benefits of wood ash for forest soil loss

what are the benefits of wood ash for forest soil test

what are the benefits of wood ash for forest soil type

what are the benefits of wood ash for forest soil auger

what are the benefits of wood ash for forest soil cover



The screenshot displays the ask-Valerie.eu web application. The browser address bar shows the URL `www.ask-valerie.eu/#/query/what are the benefits of wood ash for forest soil life &term/1`. The application header includes the ask-Valerie.eu logo, a search bar, and navigation links for Search, Contribute, and user profile (nicole.koenderink@wur.nl). Below the header is a search input field with the placeholder text "Type another question...".

The main content area is divided into two columns. The left column contains a "My Question" section with a question card: "what are the benefits of wood ash for forest soil life". Below this is a "Term Editor" section with a list of terms: "wood ash", "forest soil", and "life", each with a menu icon. There is also an "Add Term..." button and an "Apply Changes" button.

The right column displays search results. At the top, it states "I found 8 Documents that are related to your Question." Below this is a document titled "Ash fertilization stakeholders' perceptions of their external environment in Finland". The document text discusses business models of ash and the structure of the market, mentioning stakeholders and the challenges of ash fertilization.

what are the benefits of wood ash for forest soil life

Term Editor



wood ash



< Refine

+ rakeinen puutuhka

> Broaden

+ sivutuote

Add Related Term

+ boori

+ kadmium

+ tiili

+ fosfori

+ arseeni

+ tienrakennus

+ kalium

+ rakeistus

+ typpi

+ typpilannoitus

+ puutuhkalannoitus

+ rakeistus

+ puutuhkan kierrätys

+ urheilukenttä

+ metsätie

Remove Term

forest soil



life



Wood ash use in forestry ♦ a review of the environmental impacts



Alloway (1995) has shown that pH, organic matter and hydrous oxide content are the key factors controlling Cd adsorption into soils. **Wood ash** with high Cd compounds has reduced risk of this metal leaching, as it bonds with hydrous Mn oxides, through a wide range of soil pH's (Mn is plentiful in both bottom and fly ash) and with hydrous iron oxides (common in many mineral **forest soils**). [page 11]



Indicators of soil quality for UK forestry



Although heavy metals exist naturally as products of mineral weathering in **forest soils**, potential anthropogenic sources include atmospheric pollution (mainly as a result of industrial activity during the twentieth century) and organic fertilizer application, such as sewage sludge and **wood ash**. The metals can become tightly bound to organic exchange sites in the soil, and there is some concern that a reduced supply of essential exchangeable nutrients will ensue. More common though are reports of negative correlations between heavy metal concentrations and soil flora and fauna populations (Kowalski et al., 1998) and the possible implications of these on soil functioning. [page 7]



Recycling of ash ♦ For the good of the environment?



Both the positive and negative outcomes of ash application, e.g., immobilisation of heavy metals and increased CO2 emissions, largely depend on the neutralising effects of ash on soil acidity. Thus, the most crucial question that remains to be answered is how long this neutralising effect will last, and what happens thereafter. The answer will most likely depend on the initial acidity of the site and the amount of ash added. In an acidic peat-land site, addition of 8–16 Mg ha⁻¹ of birch **wood ash** has led to changes that have persisted for more than 50 years (Moilanen et al., 2002). Although short-term impacts seem to indicate otherwise, monitoring of the oldest, well-described ash fertilisation sites is also needed for evaluating whether heavy metals start to accumulate in the food web or leach into watercourses in the long run. [page 12]



Options for increased utilization of ash from biomass combustion and co-firing



Based on a comprehensive study performed by BIOS Bioenergiesysteme GmbH in Austria (Oberberger, 2009), the Austrian R&D project —Development of innovative processes for **wood ash** utilization— was initiated and started in December 2009. The project deals with the chemical and physical characterization of different wood ashes, the ash balances for different biomass combustion plants and the theoretical and practical investigation of different utilization technologies. Examples of utilization of wood ashes investigated are on short rotation coppice sites, as an additive to the composting process (Oberberger, 2010), as a binding material in road construction (Supancic, 2011) and as a building material in forest road construction. [page 26]

The screenshot shows the ask-Valerie.eu web application. The browser address bar displays the URL `www.ask-valerie.eu/#/query/what are the benefits of wood ash for forest soil life &term/1`. The page header includes the ask-Valerie.eu logo, a search bar, and navigation links for 'Contribute', 'nicole.koenderink@wur.nl', 'About', and 'Logout'. A dropdown menu is open under 'Contribute', showing options for 'Suggest Term' and 'Suggest Document'. Below the header, there is a search bar with the text 'Type another question...'. On the left side, the 'My Question' section displays the query 'what are the benefits of wood ash for forest soil life'. Below this is the 'Term Editor' section, which lists terms: 'wood ash', 'forest soil', and 'life'. At the bottom of the left sidebar, there is an 'Add Term...' button and an 'Apply Changes' button. The main content area shows a message 'I found 8 Documents that are related to your Question.' followed by a document titled 'Ash fertilization stakeholders' perceptions of their external environment in Finland'. The document text discusses business models of ash and the structure of the market, mentioning stakeholders and the challenges of product differentiation.

ask-Valerie.eu

www.ask-valerie.eu/#/query/what are the benefits of wood ash for forest soil life &term/1

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About

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Type another question...

Suggest Term

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My Question

what are the benefits of wood ash for forest soil life

Term Editor

wood ash

forest soil

life

Add Term...

Apply Changes

I found 8 Documents that are related to your Question.

Ash fertilization stakeholders' perceptions of their external environment in Finland

business models of **ash** and the structure of the market have been assessed because only one stakeholder elaborated on the business models profoundly. This particular manufacturing stakeholder found that the attempts to develop **wood ash** fertilizers had been unsuccessful in creating value for the customer. He dealt with the market structure and the business models from a producer's/manufacturer's point of view: "If a factory is willing to pay for taking the **ash** to the forest, which costs less than paying the waste disposal tax, it is more profitable for a factory. But that's a different thing if it is a sustainable business model in the long run. The market is supposed to work in a way that it is profitable in the long run. This is a more artificial subvention". The long-term success of the business model is essential in creating a market that functions properly. If the waste act has created a need to develop **ash** fertilizers, has the motivation to participate in the **ash** fertilization market originated from a need other than the sheer pursuit to create value? The market could be described to be structurally supply- oriented, which has emphasized the significance of push-strategies as Corniani (2008) has depicted. Corniani (2008) describes that the push strategy is based on the company's processes and resources to provide a product for the market. This emphasizes the organization's role in maintaining supply. Corniani (2008) explains that push-strategies are founded on past experience and they require an extensive knowledge of the market and of demand and competitors, in particular. The stakeholders have supplied **ash** to the market, but the customers' needs have not been prioritized because the increased quantities of ashes are the main issue which needs managing. **Wood ash** can be considered quite a homogenous "product" from a marketing perspective because a customer may not be able to identify differences in various **ash** fertilization products. This challenges product differentiation, which for its part influences value creation. One manufacturing stakeholder expressed that "In a normal market economy you have a product that is so good

- A txt-document does not open when clicking download
- The language flags of the document are incorrect when searching for more than one term
- Alphabetical ordering, and choice of labels in Term Editor can be improved