

# Accepted Manuscript

Farmers' reasons to accept bio-based fertilizers: A choice experiment in seven different European countries

Juan Tur-Cardona, Ole Bonnichsen, Stijn Speelman, Ann Verspecht, Louise Carpentier, Lies Debruyne, Fleur Marchand, Brian H. Jacobsen, Jeroen Buysse



PII: S0959-6526(18)31822-5

DOI: [10.1016/j.jclepro.2018.06.172](https://doi.org/10.1016/j.jclepro.2018.06.172)

Reference: JCLP 13318

To appear in: *Journal of Cleaner Production*

Received Date: 15 September 2017

Revised Date: 20 May 2018

Accepted Date: 15 June 2018

Please cite this article as: Tur-Cardona J, Bonnichsen O, Speelman S, Verspecht A, Carpentier L, Debruyne L, Marchand F, Jacobsen BH, Buysse J, Farmers' reasons to accept bio-based fertilizers: A choice experiment in seven different European countries, *Journal of Cleaner Production* (2018), doi: 10.1016/j.jclepro.2018.06.172.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Farmers' reasons to accept bio-based fertilizers: A choice experiment in seven different European countries**

Juan Tur-Cardona<sup>a,\*</sup>, Ole Bonnichsen<sup>b</sup>, Stijn Speelman<sup>a</sup>, Ann Verspecht<sup>a</sup>, Louise Carpentier<sup>c</sup>, Lies Debruyne<sup>c</sup>, Fleur Marchand<sup>c</sup>, Brian H. Jacobsen<sup>b</sup>, Jeroen Buysse<sup>a</sup>

<sup>a</sup>*Department of Agricultural Economics, Faculty of Bioscience Engineering, Ghent University, Coupure links 653, B-9000 Gent, Belgium*

<sup>b</sup>*Department of Food and Resource Economics, University of Copenhagen, Rolighedsvej 25, DK-1958 Frederiksberg C, Denmark*

<sup>c</sup>*Social Sciences Unit, Institute for Agricultural and Fisheries Research (ILVO), Burgemeester Van Gansberghelaan 92, 9820 Merelbeke, Belgium*

\*Corresponding author e-mail address: [juan.turcardona@ugent.be](mailto:juan.turcardona@ugent.be)

1 **Abstract**

2 European agriculture is a large importer of nutrients in the form of chemical fertilizers.  
3 Additionally, countries with livestock-intensive farming face problems with disposal of  
4 nutrients in animal manure. The availability of chemical fertilizers has changed farmers'  
5 past dependence on manure. Nowadays, despite its nutrient content, manure is sometimes  
6 considered as a waste product. However, if the characteristics of manure and other waste  
7 streams could be enhanced through processing, it could be transformed into an alternative  
8 bio-based fertilizer recycling the nutrients within the farming sector. This would also  
9 create opportunities for nutrient exchange between different European regions. However,  
10 a key question is what is needed for farmers to accept these products as replacements for  
11 their current chemical fertilizer use? In this paper, key attributes determining the  
12 acceptance of alternative bio-based fertilizer products are identified. Based on the  
13 identified attributes, a discrete choice experiment was designed to reveal farmers'

Download English Version:

<https://daneshyari.com/en/article/8093880>

Download Persian Version:

<https://daneshyari.com/article/8093880>

[Daneshyari.com](https://daneshyari.com)