Data in Brief 🛛 (■■■■) ■■■–■■■



### ARTICLE INFO

Article history:

Received 22 February 2018 Received in revised form 9 March 2018 Accepted 16 March 2018

#### ABSTRACT

This paper presents data collected from 38 integrated crop-livestock farming systems in Ille-et-Vilaine, Brittany, France, during face-to-face surveys. Surveys were conducted using a quantitative questionnaire to collect information about farm management practices that affect nitrogen (N) inputs, N outputs, and internal N flows. The data were used to develop new indicators of N efficiency (SyNE, System N Efficiency) and of N balance (SyNB, System N Balance), as described in "SyNE: An improved indicator to assess nitrogen efficiency of farming systems" [1]. Also, the data were used to test an online tool developed to calculate these indicators, as described in "A free online tool to calculate three nitrogenrelated indicators for farming systems" [2]. The data are provided with this article.

© 2018 The Authors. Published by Elsevier Inc. This is an open access article under the CC BY license (http://creativecommons.org/licenses/by/4.0/).

Agricultural science

Raw and analyzed

Table

Survey

Agronomy, Agroecological engineering

## Specifications table

- Subject area
- More specific subject area
- Type of data
- How data were acquired
- Data format
- Experimental factors

DOI of original article: https://doi.org/10.1016/j.agsy.2018.01.015 E-mail address: matthieu.carof@agrocampus-ouest.fr (M. Carof).

https://doi.org/10.1016/j.dib.2018.03.066

2352-3409/© 2018 The Authors. Published by Elsevier Inc. This is an open access article under the CC BY license

(http://creativecommons.org/licenses/by/4.0/).

Please cite this article as: M. Carof, O. Godinot, Survey data from 38 integrated crop-livestock farming systems in Western France, Data in Brief (2018), https://doi.org/10.1016/j.dib.2018.03.066

	2 M. Carof, O. Godinot / Data in Brief <b>E</b> ( <b>BBB</b> ) <b>BBE-BBB</b>		
55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	Experimental features Data source location Data accessibility		– Ille-et-Vilaine, Brittany, France Data are provided with this article
	Value of the data		
	<ul> <li>The data allow researchers to describe nitrogen (N) management (N inputs such as fertilizer and feed purchased; N outputs such as milk and animals sold; internal N flows such as change in soil N stock) in integrated crop-livestock farming systems in Western France.</li> <li>The data can be used to calculate indicators of N efficiency and N balance for these integrated crop-livestock farming systems.</li> <li>The data can be used to compare crop and livestock management practices from other regions and other farming systems.</li> <li>Since all surveyed farmers cropped alfalfa and other legumes in variable proportions, the data can be useful for studying the N self-sufficiency of these systems.</li> </ul>		
72 73			
74 75	1. Data		
76 77 78 79 80 81 82 <b>Q4</b> 83 84 85 86 87 88 87 88 89	Thirty-eight integrated crop-livestock <sup>1</sup> farming systems were surveyed in spring 2012. They were located in the department of Ille-et-Vilaine, eastern Brittany, France, which is designated as a Nitrate Vulnerable Zone according to the European Union (EU) Nitrates Directive [3] (Fig. 1). Contacts were provided by an agricultural cooperative specialized in alfalfa dehydration; therefore, all surveyed farmers cropped alfalfa. Brittany, a lowland area, is the most important region in France for livestock production (e.g., 21% of national milk production, with an average of 7158 L per cow in 2011 [4]). Crop production is targeted mostly towards livestock feeding and is dominated by winter wheat (17% of regional utilized agricultural area (UAA)), maize (26% of regional UAA), and grasslands (41% of regional UAA) [4].		
90 91	2. Experimental design,	, materials and methods	
92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	The 38 integrated crop N inputs, N outputs, and was conducted by a resea 1 to 2 h. A simplified ver mentary material. Farmers were asked al crops, feed and fertilizer p the farming system. Mean The available data were rendering data for each fa were calculated using the	p-livestock farming systems were sur internal N flows for the year 2011. archer trainee. It was mostly quantit rsion of the questionnaire, translate bout crop areas and yields, herd cor purchases, manure management, and a characteristics of the 38 surveyed fa e refined from the raw data by correct aming system consistent. Values of N e free online tool available at https://	veyed to collect information about their A face-to-face survey with each farmer rative, with closed questions, and lasted ed into English, is available as Supple- mposition, sales of animal products and d other information related to N flows in arming systems are presented in Table 1. cting errors, filling in missing values, and i inputs, N outputs, and internal N flows www.nefficiencycalculator.fr/en/ [2].
107 108	<sup>1</sup> In this article, livestock re	fers only to cattle.	

Download English Version:

# https://daneshyari.com/en/article/6596654

Download Persian Version:

https://daneshyari.com/article/6596654

Daneshyari.com