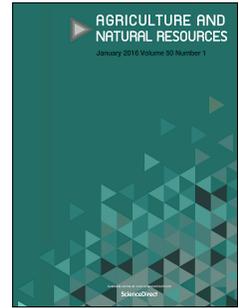


# Accepted Manuscript

Comparison of leaf osmotic adjustment expression in wheat (*Triticum aestivum* L.) under water deficit between the whole plant and tissue levels

Song Ai Nio, Daniel Peter Mantilen Ludong, Len J. Wade



PII: S2452-316X(17)30183-7

DOI: [10.1016/j.anres.2018.03.003](https://doi.org/10.1016/j.anres.2018.03.003)

Reference: ANRES 149

To appear in: *Agriculture and Natural Resources*

Received Date: 25 April 2017

Revised Date: 9 July 2017

Accepted Date: 12 September 2017

Please cite this article as: Nio SA, Mantilen Ludong DP, Wade LJ, Comparison of leaf osmotic adjustment expression in wheat (*Triticum aestivum* L.) under water deficit between the whole plant and tissue levels, *Agriculture and Natural Resources* (2018), doi: 10.1016/j.anres.2018.03.003.

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.

1 Agriculture and Natural Resources. 2018. 52(1): xx-xx.

2 Agr. Nat. Resour. 2018. 52(1): xx-xx.

3

4 **Comparison of leaf osmotic adjustment expression in wheat (*Triticum aestivum* L.)**  
5 **under water deficit between the whole plant and tissue levels**

6

7 **Song Ai Nio<sup>a,\*</sup>, †, Daniel Peter Mantilen Ludong<sup>b</sup>, Len J. Wade<sup>c,†</sup>**

8

9 <sup>a</sup>Biology Department, Faculty of Mathematics and Natural Sciences, University of Sam  
10 Ratulangi, Kampus Unsrat, Manado 95115, North Sulawesi, Indonesia.

11 <sup>b</sup>Agricultural Technology Department, Faculty of Agriculture, University of Sam Ratulangi,  
12 Kampus Unsrat, Manado 95115, North Sulawesi, Indonesia.

13 <sup>c</sup>The University of Queensland, School of Agriculture and Food Sciences, Brisbane QLD  
14 4072, Australia.

15

16 *Article history:*

17 Received 25 April 2017

18 Accepted 12 September 2017

19 Available online

20

21 *Keywords:*

22 Drought;

23 Glycinebetaine;

24 K<sup>+</sup>

25 Na<sup>+</sup>

26 Proline

27

28 \*Corresponding author.

29 E-mail address: niosongai@unsrat.ac.id (Song Ai Nio)

30 † Equal contribution

31 E-mail address: len.wade@uq.edu.au (Len J. Wade).

Download English Version:

<https://daneshyari.com/en/article/6538019>

Download Persian Version:

<https://daneshyari.com/article/6538019>

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