



UNISWA JOURNAL OF AGRICULTURE

A PUBLICATION OF THE FACULTY OF AGRICULTURE

VOLUME 17, 2014

ISSN: 1021-0873

<http://www.iasp.org.uk/ajol/> (please write current website)

UNISWA JOURNAL OF AGRICULTURE

A publication of the Faculty of Agriculture

Vol. 17, 2014

**Editor-in-Chief and
Chairperson of Editorial Board**

Prof. A. M. Dlamini

Members of Editorial Board

Prof. P. E. Zwane, Deputy Editor

Dr. M. T. Masarirambi

Dr. M. A. Dube

Prof. A. M. Manyatsi

Prof. M. B. Masuku

Dr. G. Z. Khumalo

Editorial Office

All inquiries and correspondence concerning the journal should be addressed to the editor-in-Chief, UNISWA Journal of Agriculture, c/o Office of the Dean, Faculty of Agriculture, University of Swaziland, Luyengo Campus, P. O. Luyengo Swaziland, M205. Telephone +268 25270567; Fax: +268 25274441; Email: ujaeditor@uniswa.sz.

Aim and Scope

The aim of UNISWA Journal of Agriculture is to serve as a forum for disseminating and integrating scientific knowledge in those disciplines that underpin agriculture. The Journal publishes research papers, case studies, essay and review articles as well as first hand experiences in soil, plant water and animal sciences, natural resources management, home economics and nutrition, and other related areas of relevance to the southern African Development Community (SADC) region in particular and African in general.

Annual Subscription

Annual subscription for a single volume is R75.00 (or US45.00 for those outside Africa). These rates include packing and delivery by air.

Back Issues

The following back issues are available from the Faculty: Vol. 1. 1992; Vol. 2. 1993, Vol. 3. 1994; Vol. 4. 1995.; Vol. 5. 1996; Vol. 6. 1997; and Vol. 7. 1998; Vol. 8. 1999; Vol. 9. 2000; Vol. 10. 2001; Vol. 11. 2002; Vol. 12. 2003; Vol. 13. 2005; and Vol. 14. 2006. The current volume is volume 15. 2011. This volume will be published in three numbers 15: (1), 2011; 15 (2) 2011 and 15: (3) 2011.

Copyright

No part of this publication may be reproduced, stored in retrieval system or transmitted in any form or by means, electronically, mechanical, photocopying, recording, or otherwise, without the written permission of the Faculty of Agriculture.

Disclaimer

The selection and presentation of materials and opinion expressed in this publication are the sole responsibility of the authors concerned.

Contents

Cover page	(i)
Editorial information.....	(ii)
Contents.....	(iii)
1. THE GROWTH PERFORMANCE, BIOMASS PRODUCTION AND NUTRITIVE VALUE OF THREE MORINGA PROVENANCES IN LUYENGO, SWAZILAND. M. M. Dlamini, J.F. Mupangwa, E. Bhebhe and B. J. Dlamini.....	1
2. THE EFFECT OF FEEDING HEAT TREATED <i>MORINGA OLEIFERA (LAM)</i> LEAF MEAL ON THE GROWTH PERFORMANCE OF <i>OREOCHROMIS NILOTICUS (LAM)</i> FRY. T. Tagwireyi, J. F. Mupangwa, J. Jepsen and P. Mwera	14
3. THE EFFECTS OF INCLUSION OF SILVERLEAF DESMODIUM (<i>Desmodium uncinatum</i>) FORAGE AND MOLASSES ON NAPIER GRASS (<i>Pennisetum purpureum</i>) SILAGE QUALITY. T. P. Zwane, J. F. Mupangwa and E. Bhebhe.....	21
4. LAYING PERFORMANCE AND EGG QUALITY OF TWO STRAINS OF CHICKEN THE <i>Gallus gallus</i> SPECIES AND THEIR F 1 CROSSES RAISED IN A SEMI-INTENSIVE SYSTEM. B.Soro, C.V. Yapi-gnaore, D.P. Sokouri, G.J. Nemlin and A.S.P.N'guetta	28
5. UTILISATION OF LOCAL LEADERS IN SWAZILAND AGRICULTURAL EXTENSION. A. A. Jibowo, M. A. Dube and R. M. Dlamini.....	39
NOTES TO CONTRIBUTORS	53