



FIELD GUIDE TO HI VALLEE FARM

A revised photographic guide to the Kwongan bushland diversity
on Hi Vallee Farm
Tootbardie Road, Badgingarra, Western Australia.

Compiled by JOLANDA KEEBLE
Special assistance by DON & JOY WILLIAMS and MIKE HISLOP
2020

Book design and lay-out by Jolanda Keeble.

Published by the author.

Printed and bound by Daniels Printing Craftsmen, Osborne Park, Western Australia.

Copyright: All materials in this book are subject to copyright and may not be reproduced in any form without the written permission of the author Jolanda Keeble (email: jmkeeble@gmail.com), Don and Joy Williams (email: hivallee@westnet.com.au or Tel. 08 9652 3035), or those persons named with the texts or images.

ISBN: 978-0-9945554-5-8

E-book ISBN: 978-0-9945554-6-5

Edition 3. 2020. First published April 2016 by the author.

Front page photograph: *Banksia menziesii* flower.

CONTENTS

INTRODUCTION	i
LOCATION	iii
PHYSIOGRAPHY	iii
NATIVE FLORA IDENTIFICATION GUIDE	1
INTRODUCED FLORA LIST	90
NATIVE AND INTRODUCED FAUNA LIST	93
RECORDED FUNGI AND SLIME MOULDS ON THE PROPERTY	97
VERTEBRATE FAUNA PHOTOS	99
<i>Birds</i>	99
<i>Mammals</i>	101
<i>Frogs</i>	101
<i>Lizards</i>	102
<i>Snakes</i>	103
INVERTEBRATE FAUNA PHOTOS	104
<i>Spiders and scorpions</i>	104
<i>Beetles</i>	104
<i>Cockroaches</i>	104
<i>Wasps, Bees and Sawflies</i>	105
<i>Grasshoppers, Katydid, Mantis and Stick-insects</i>	105
<i>Moths and Butterflies</i>	105
FUNGI, LICHENS & MOSSES PHOTOS	107
REFERENCES	109
GENUS BY FAMILY	116
GLOSSARY	119



Don and Joy Williams



The author

NATIVE FLORA IDENTIFICATION GUIDE



Acacia alata var. *tetrantha*
 Flowering period: Apr to Jul.
 Can flower twice a year.
 Flowers white / cream. Stem winged.
 Erect shrub to 0.8m tall.
 Similar species: *A. stenoptera* and *A. applanata*. However, *A. stenoptera* and *A. applanata* have yellow flowers, not white.
A. stenoptera flowers Mar to Dec and is prickly with narrower wings than *A. applanata*.
A. applanata flowers Jun to Oct.



Acacia applanata
 Flowering period: Jun to Oct.
 Flowers yellow, stalked. Stem winged.
 Shrub to 0.5m tall.
 Similar species: *A. alata* var. *tetrantha* and *A. stenoptera*.
 However, *A. alata* var. *tetrantha* has white / cream flowers.
A. stenoptera is more narrowly winged.



Acacia auronitens
 Flowering period: Sept to Dec.
 Flowers yellow, 30-50 in globular head.
 Phyllodes 4- or 5-nerved, normally flat.
 Pods ±woody. Stipules 2-4 mm long, rigid and ±spinose (sharply or coarsely pungent). Branchlets normally densely hairy. Shrub to 0.5m tall.



Acacia blakelyi
 Flowering period: Jul to Sept.
 Flowers yellow, stalked. Phyllodes 3-nerved with a gland in the middle near the base. Dense or occasionally slender shrub or tree to 3m tall.



Acacia drummondii subsp. *drummondii*
 Flowering period: Jun to Oct.
 Flowers yellow, in spikes.
 Leaf pinnae flat, glaucous.
 Shrub to 0.6m tall.



Acacia lasiocarpa var. *bracteolata*
 Flowering period: Jun to Oct.
 Flowers yellow, 16-50 flowered.
 Inflorescence arising from within leaf axils (1 pair of pinnae). Peduncles (inflorescence stem) hairy, usually 3-6mm long. Leaflets recurved.
 Spinescent shrub to 0.6 (-2.5)m tall.

REFERENCES

Books:

- Barker, S. 2006. Castiarina: Australia's richest jewel beetle genus.
- Barrow, J. 2013. How to Enjoy WA Wildflowers.
- Beard, J. S., Beeston, G.R., Harvey, J.M., Hopkins, A.J.M. and Shepherd, D.P., 2013. The Vegetation of Western Australia at the 1:3,000,000 scale. Explanatory Memoir. Second edition. *Conservation Science Western Australia* 9, 1-152.
- Beard, J.S., 1990. Second edition eds. George A.S. and Gibson, N. 2015. Plant Life of Western Australia.
- Bell, U., 2004. Native grasses in the Perth region.
- Brundrett, M., 2014. Identification and ecology of Southwest Australian Orchids.
- Cavanagh, T. and Pieroni, M., 2006. The Dryandras.
- Corrick, M.G. and Fuhrer, B.A., 2009. Wildflowers of Southern Western Australia.
- Department of Environment and Conservation, June 2008. Biodiversity Management Guidelines for Hi Vallee Remnant.
- French, M., 2012. Eucalypts of Western Australia's Wheatbelt.
- George, A.S., 1981. The Banksia Book.
- George, E.A. and Pieroni, M., 2002. Verticordias – The turner of hearts.
- Grieve, B.J. and Balckall, W.E., 1954-1975. How to Know Western Australian Wildflowers. Parts I to IV.
- Holliday, I., 2004. Melaleucas – A field and garden guide.
- Holliday, I. and Watton, G., 2008. Banksias – A field and garden guide.
- Hussey, B.M., Keighery, G.J., Dodd, J., Lloyd, S.G. and Cousens, R.D., 2007. Western Weeds. Second Edition. A guide to the weeds of Western Australia.
- Lambers, H. (ed) et al., 2014. Plant Life on the Sandplains in Southwest Australia. A Global Biodiversity Hotspot.
- Lowrie, A., 2013. Carnivorous Plants of Australia Magnum Opus. Volumes 1 to 3.
- Lowry, D.C., 1974. Dongara-Hill River Western Australia: Geological Series – Explanatory Notes. Australian Government Publishing Service, Canberra Australia.
- Meagher, D. and Fuhrer, B., 2003. A field guide to the mosses & allied plants of southern Australia. Flora of Australia Supplementary Series Number 20.
- Meney, K.A. and Pate, J. S. (eds), 1999. Australian Rushes – Biology, Identification and Conservation of Restionaceae and allied families.
- Mory, A.J., 1994. Geology of the Hill River - Green Head 1:100,000 Sheet. Explanatory Notes. Geological Survey of Western Australia. Department of Minerals and Energy. Perth.
- Mory, A. J., Haig, D. W., McLoughlin, S., and Hocking, R. M., 2005. Geology of the northern Perth Basin, Western Australia - a field guide: Western Australia Geological Survey, Record 2005/9, 71p.
- Olde, P and Marriott, N., 1994-1995. The Grevillea Book. Volumes 1 to 3. Sainsbury, R.M., 1987. A Field Guide to Isopogons and Pterophiles.
- Playford, P.E., Cockbain, A.E. and Low, G.H., 1976. Geology of the Perth Basin Western Australia, Geological Society of Western Australia, Bulletin 124
- Wheeler, J., Marchant, N. and Lewington, M., 2002. Flora of the South West. Volumes 1 and 2.
- Young, A.J., 2006. Hakeas of Western Australia – A field and identification guide.

Electronic literature accessed between 2014 and 2020:

- ABRS Flora of Australia Online (<http://www.environment.gov.au/biodiversity/abrs/online-resources/flora/main/>)
- AROD Australian Reptile Database (<http://www.rod.com.au/rod/>)
- Ausgrass2 Grasses of Australia. (<http://ausgrass2.myspecies.info/>)
- Bureau of Meteorology Weather Data (<http://www.bom.gov.au/climate/data>)
- CSIRO Publishing: Australian Systematic Botany Journal (<https://www.publish.csiro.au/SB>)
- Department of Biodiversity, Conservation and the Arts (DBCA), January 2019. Conservation Codes for Western Australian Flora and Fauna (<https://www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities>)
- Florabase Western Australian Flora Search (<https://florabase.dpaw.wa.gov.au/>)
- Gill, F & D Donsker (Eds). 2017. IOC World Bird List (v 7.1). (<http://www.worldbirdnames.org>)
- KeyBase Flowering Plants of Australia (<http://keybase.rbg.vic.gov.au>)
- Nuytsia - The journal of the Western Australian Herbarium (<https://florabase.dpaw.wa.gov.au/nuytsia>)
- The gymnosperm database (www.conifers.org)
- Wildlife Conservation (Specially Protected Fauna) Notice 2018. Minister for Environment, 11 September 2018
- Wildlife Conservation (Rare Flora) Notice 2018. Minister for Environment, 11 September 2018
- World Wide Wattle (<http://www.worldwidewattle.com/>)

Others:

- WA Herbarium reference collection and specimens.
- WA Department of Biodiversity, Conservation and the Arts.
- Spineless Wonders.
- Wildlife Experiences Pty Ltd.