The reduction of *Acacia burkittii* to *Acacia acuminata* subsp. *burkittii* (*Acacia* sect. *Juliflorae*: Fabaceae, Mimosoideae)

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Abstract

*Kodela, P.G. and Tindale, M.D. (National Herbarium of New South Wales, Royal Botanic Gardens, Mrs Macquaries Road, Sydney, N.S.W. 2000, Australia) 1998*. The reduction of *Acacia burkittii* to *Acacia acuminata* subsp. *burkittii* (*Acacia* sect. *Juliflorae*: Fabaceae, Mimosoideae). *Telopea* 7(4): 415–417. *Acacia burkittii* is here transferred to *A. acuminata* as subsp. *burkittii*. *Acacia acuminata* subsp. *acuminata* is endemic to south-west Western Australia, while *A. acuminata* subsp. *burkittii* extends from south Western Australia to western New South Wales.

Introduction

*Acacia burkittii* has long been separated from *A. acuminata* mostly on the basis of phyllode shape and width, as well as other phyllode characteristics which are less consistent or useful such as phyllode curvature and indumentum. An investigation of flowers, legumes and other characters of the two species, however, found them comparable or sufficiently similar that species rank for both is not justified. For example, in both taxa the 4-merous flowers have a calyx dissected by 1⁄2 or more with the ± keelled, usually narrow lobes clothed with white or yellowish hairs (mostly on the base, midrib and margins) and having rounded obtuse apices.

*A. randelliana* is considered to be conspecific with *A. burkittii* (see also Maslin 1981, Whibley & Symon 1992).

*Acacia acuminata* Benth. subsp. *burkittii* (F. Muell. ex Benth.) Kodela et Tindale, comb. et stat. nov.


Holotype: Lake Gilles in the interior, [S.A.], *Burkitt* (K); isotypes: MEL n.v., PERTH (fragment) n.v.


Bushy, rounded, spreading or erect shrub or tree to 4 m high, rarely to 10 m high; bark dark brown and slightly fissured on main trunks, otherwise smooth, greenish grey, silvery grey or grey. *Branchlets* ± terete, glabrous. *Young shoots* golden-sericeous (more
often seen in specimens of subsp. *acuminata*. Phyllodes linear-filiform, usually upright, terete or subterete to rarely somewhat flattened (broader phyllodes, mainly in S.A. & W.A.), (2–)5–16 cm long (rarely longer), 0.5–1.3 mm wide (rarely to 1.5 mm wide), finely multistriate, with central vein sometimes slightly more prominent (in broader phyllodes), normally ciliolate (mainly on upper c. ½) especially towards apex; apex delicately curved, non-pungent, usually puberulous especially along the margins with appressed to suberect, white hairs. Spikes (4–)5–15–(17) mm long, (1–)2–3 in phyllode axils, mostly ± sessile, densely flowered, bright or golden yellow. Flowers 4-merous. **Legumes** linear, moniliform, convex over seeds, chartaceous. Burkitt’s Wattle, Gunnderbluey, Pin Bush, Sandhill Wattle, Fine Leaf Jam.

**Distribution:** extends ± from eastern margin of subsp. *acuminata* in south-eastern Western Australia, through inland South Australia to the western plains of New South Wales. Its distribution (as *A. burkittii*) is illustrated by Hall et al. (1964), Maslin & Pedley (1982), Tame (1992) and Whibley & Symon (1992).

**Habitat:** often in red earths and calcareous red or brown earths, also sandy soils, in low open woodlands and shrublands, often with mallee, eucalypts or Mulga. Occurs on flat plains (often in areas subject to flooding) or on dunes (sandhills), often forming dense clumps.

**Selected specimens:** Western Australia: Cosmo Newberry, 23 Oct 1992, M. Hancock 500 (NSW, PERTH); 20 km S of Paynes Find on Great Northern Hwy, 3 Sep 1984, B.R. Maslin 5587 (NSW, PERTH); near cemetery, Menzies, 8 Nov 1990, M. Hancock 314 (NSW, PERTH); 64 miles [103 km] W of Coolgardie, 13 Feb 1971, M.G. Brooker 6004 (NSW); 57 km E of Hyden on Hyden Norseman track, 28 Nov 1990, M. Hancock 293 (NSW).


Notes: *Acacia acuminata* subsp. *burkittii* differs from subsp. *acuminata* mainly in its narrower, terete to subterete (rarely flattened) phyllodes, normally shorter spikes and often more bushy, shrub habit. In subsp. *acuminata* the cilia on the linear or very narrowly elliptic (tapered both ends) or rarely narrowly oblanceolate phyllodes are more often visible without a 10 times lens than in subsp. *burkittii*. Intermediates occur between the subspecies, possibly reflecting clinal variation in Western Australia, e.g. 96.5 km from Meekatharra to Cue, I.B. Armitage 244 (NSW); 46 km W of Meekatharra, M. Hancock 502 (NSW, PERTH); Meekatharra–Mt Margaret region, at Cue on Great Northern Hwy, the Day-David Mine, I.V. Newman 725 (NSW); 5 miles [8 km] W of Meekatharra, N.H. Speck 580 (CANB, NSW).

Specimens from South Australia and New South Wales with slightly broader (to 2 mm wide) and ± flat phyllodes warrant further investigation, e.g. S.A.: 5 miles [8 km] E of Ooldea, B. Copley 3175 (NSW); 80 miles [c. 130 km] N of Yalata, B. Copley 2654 (AD, NSW); crossing of Phillips R., c. 15 km SW of Ravensthorpe on main road to Ongerup, L. Haegi 1029 (AD, NSW); N.S.W.: Umberumberka Road, 16 miles [25.7 km]
SW of Broken Hill, E. Baker (NSW 256165). Notes on distribution, ecology, cultivation, and the impacts of sheep and rabbit grazing are provided by Whibley & Symon (1992).

**Key to subspecies of A. acuminata**

1 Phyllodes mostly 1.5–9 mm wide, flat. Spikes 10–30 mm long .... subsp. *acuminata*

1* Phyllodes 0.5–1.3(–1.5) mm wide, terete to subterete (rarely ± flat). Spikes mostly 5–15 mm long .......................................................... subsp. *burkittii*

**Acknowledgments**

Funding was provided by the Australian Biological Resources Study (ABRS), Canberra, the Royal Botanic Gardens and Domain Trust, Sydney, and the Janet Cosh Bequest. We are grateful for the support given by Prof. T.C. Chambers, Dr B.G. Briggs (NSW) and Dr H. Hewson (formerly ABRS) provided at the time of this project. We thank Mary Hancock for her many collections of specimens that have assisted our work. Dr Peter Wilson kindly commented on the manuscript.

**References**


Manuscript received 17 March 1998
Manuscript accepted 16 April 1998