

**AN ANNOTATED PLANT CHECKLIST OF
BUNGLE BUNGLE AND OSMOND RANGE,
SOUTH-EASTERN KIMBERLEY, WESTERN AUSTRALIA.**

NOTES ON THE COLLECTION

The following list contains all the species so far identified. It totals 403 species in which there are 9 fungi, 1 lichen, 7 liverworts, 14 mosses, 14 ferns, 1 cycad and 357 flowering plants (89 monocots, 268 dicots). The monocots belong to 47 genera in 12 families and the dicots to 151 genera in 68 families.

In terms of species numbers the Poaceae are the largest family recorded from the survey area, closely followed by the Cyperaceae. Table 1 lists the number of species in the larger families.

Table 1. Number of species in the larger families collected in the Bungle Bungle and Osmond Range.

FAMILY	NO. SPECIES	LARGEST GENERA
Poaceae	44	<i>Eragrostis</i> 5
Cyperaceae	31	<i>Cyperus</i> 13
Myrtaceae	27	<i>Eucalyptus</i> 18
Papilionaceae	26	<i>Crotalaria</i> 4 & <i>Tephrosia</i> 4
Mimosaceae	23	<i>Acacia</i> 23
Euphorbiaceae	14	<i>Euphorbia</i> 5
Asteraceae	11	<i>Pterocaulon</i> 4
Proteaceae	9	<i>Grevillea</i> 6
Rubiaceae	8	<i>Oldenlandia</i> 3
Malvaceae	8	<i>Hibiscus</i> 5
Moraceae	7	<i>Ficus</i> 7
Amaranthaceae	6	<i>Ptilotus</i> 2
Asclepiadaceae	6	<i>Marsdenia</i> 2
Combretaceae	6	<i>Terminalia</i> 6
Tiliaceae	6	<i>Triunfetta</i> 4
Convolvulaceae	5	
Loranthaceae	5	<i>Amyema</i> 2 & <i>Lysiana</i> 2
Sapindaceae	5	<i>Dodonaea</i> 3
Scrophulariaceae	5	<i>Stemodia</i> 4
Solanaceae	5	<i>Solanum</i> 4

ARRANGEMENT OF THE PLANT CHECKLIST

Genera and species are arranged alphabetically within families which are themselves alphabetical in each section. Introduced plants are indicated by an asterisk (*). Species are followed by a collector's number or numbers to assist location of the voucher collections. Initials cited in the text refer to the following collectors: MIB (M.I. Blackwell); EAC (E.A. Chesterfield); CD (C. Done); SJF (S.J. Forbcs); KFK (K.F. Kenneally); MN (M. Newstead); WAP (W.A. Papst); DBR (D.B. Rose); NHS (N.H. Scarlett); ASW (A.S. Weston) and JHW (J.H. Willis). All specimens cited are represented by voucher specimens housed either in the Western Australian Herbarium (PERTH) or the National Herbarium of Victoria (MEL), unless indicated by the initials SR which denotes a sight record only.

Nomenclature for vascular plants (Tracheophyta) follows Green (1985) and families for Basidiomycetes follow Julich (1981). All other entries are in accord with recommendations of specialists for particular taxa.

PLANT CHECKLIST

EUMYCOPHYTA (Fungi and Lichens)

Fungi

BASIDIOMYCETES

CORIOLACEAE

Pycnoporus sanguineus (L. ex Fr.) Murr. JHW s.n.

Sparse. On dead fallen branch in open woodland of *Eucalyptus collina*, plateau top above S. escarpments into Winnama Springs gorge.

LYCOPERDACEAE

Lycoperdon sp. (SR)

Noted on open grassy ground against Turkey Ck. (upstream from Winnama Ck junct.) Mabel Downs Stn.

PISOLITHACEAE

Pisolithus tinctorius (Mich. ex Pers.) Coker & Couch KFK 9219, 9269

Noted in sand beside track along Turkey Ck (upstream from Winnama Ck junction), Mabel Downs Stn; in cemented grey clay adjacent to Red Rock Creek where it appeared to be associated with nest of red ants and in Piccaninny Gorge.

POLYPORACEAE

Polyporus udus Jungh. KFK 9213

On dead, fallen wood at Wulwuldji.

Pseudofavolus ? *vespaceus* (Pers.) G.H.Cunn. JHW s.n.

On dead, fallen and charred branch in shade, beside Winnama Springs Creek immediately below gorge, Mabel Downs Stn.

Trametes muelleri Berk. JHW s.n.

Dead fallen trunks of *Eucalyptus collina* on high rocky plateau above S declivities of Winnama Springs gorge.

Trichaptum venustum (Berk.) G.H.Cunn. JHW s.n.

On fallen, rotting trunks along Winnama Springs creek, immediately below mouth of gorge, Mabel Downs Stn.

Tyromyces ? *oviformis* (G.H.Cunn.) G.H.Cunn. JHW s.n.

On hard bloodwood log at head of gorge on Winnama Springs creek, Mabel Downs Stn.

SCHIZOPHYLLACEAE

Schizophyllum commune Fr. JHW s.n.

Very small young sporocarps on hymenial surface of an old *Trametes muelleri* bracket. High rocky plateau above S. declivities of Winnama Springs gorge, Mabel Downs Stn.

Lichens

PLEOSPORACEAE

Microthelia aterrima (Kremp. ex Anzi) Zahlbr. SJF 2620

Abundant black, crustose lithophyte, appearing granular. On sandstone pavement of Bungle Bungle massif.

BRYOPHYTA (Liverworts and Mosses)

HEPATICAE (Liverworts)

ANEURACEAE

- Riccardia bipinnatifida* (Colenso) Hewson EAC 196, 197
On roots of closed forest dominants in Winnama Gorge.

REBOULIACEAE

- Asterella drummondii* (Hook.f. & Tayl.) Schust. MIB/BB s.n.
In Piccaninny Gorge.

RICCIACEAE

- Riccia vesiculosa* (Carr. & Pearson) Steph. KFK 9302
Thalloid liverwort on dried mud wall in gorge of Piccaninny Ck.
- Riccia ? deserticola* Steph. EAC 238
On damp earth bank under swampy closed forest at Wulwuldji.
- Riccia ? lamellosa* Raddi SJF 2653
On damp earth bank in savannah woodland at Blue Holes on Ord R.
- Riccia muscicola* Steph. MIB/BB 216, 376
In canyon to north east of Piccaninny Gorge.
- Riccia* sp. SJF 2652
On damp earth bank in savannah woodland at Blue Holes on Ord R.

MUSCI (Mosses)

ARCHIDIACEAE

- Archidium indicum* Hampe & C.Mull. MIB/BB 217, 421
In canyon to north east of Piccaninny Gorge.
- Archidium rothii* Watts ex Roth. SJF 2653
Forming broken turf. On steep earth bank adjacent to Ord R. at Blue Holes.
- Archidium* sp. SJF 2632
Occasional cushions. On sandstone shelves of entrenched creek valley on summit of Bungle Bungle massif.

BRYACEAE

- Brachymenium* aff. *preissianum* (Hampe) Jaeg. EAC 236
On damp, peaty coarse-sand bank beside stream in swampy closed forest at Wulwuldji.
- Bryum cellulare* Hook. JHW s.n.
Forming a dense turf on shaded peaty ground against edges of pools along Winnama Springs Ck (where associated with *Colocasia* at mouth of gorge).
- Bryum* sp. EAC 236
On damp, peaty coarse-sand bank beside stream in swampy closed forest at Wulwuldji.
- Bryaceae sp. SJF 2652
Forming broken turf. On steep earth bank adjacent to Ord R. at Blue Holes.

DICRANACEAE

Trematodon acutus C.Mull. KFK 9203; EAC 237, 238

On damp earth bank under swampy closed forest at Wulwuldji; on seepage bank beside creek in Osmond Valley.

CALYMPERACEAE

Octoblepharum albidum Hedw. EAC 199

Forming loose mats beneath overhangs and tight, compact cushion on rockface. On sandstone in Winnama Gorge.

HYPNACEAE

Vesicularia aff. *montagnei* (Bel.) Broth. EAC 198

Forming mats over *Nephrolepis hirsutula* rhizomes. On sandstone cliffs of Winnama Gorge.

Vesicularia aff. *rivalis* Broth. JHW s.n.

Forming mats on wet shaded rock surfaces under perching colonies of ferns (chiefly *Nephrolepis hirsutula*), northern face of Winnama Springs gorge, Mabel Downs Stn.

PLAGIOTHECIACEAE

Isopterygium sp. JHW s.n.

Forming mats on wet shaded rock surfaces under perching colonies of ferns (chiefly *Nephrolepis hirsutula*), northern face of Winnama Springs gorge, Mabel Downs Stn.

POTTIACEAE

Splachnobryum aff. *wiemansii* Fleischer SJF 2653

Forming broken turf. On steep earth bank adjacent to Ord R. at Blue Holes.

Ulebryum peruvianum Broth. SJF 2652, 2553

Forming broken turf. On steep earth bank adjacent to Ord R. at Blue Holes.

TRACHEOPHYTA

PTERIDOPHYTA

Ferns and Fern Allies

ADIANTACEAE

Ceratopteris thalictroides (L.) Brongn. KFK 9203A

Emergent aquatic. In wet sand at edge of creek in Osmond Valley.

Cheilanthes brownii (Desv.) Domin SJF 2575, 2628; KFK 9250; MIB/BB 130, 132, 249

Tufted fern, rhizome short, fronds woolly. Common in sandstone crevices of Bungle Bungle massif.

Cheilanthes pumilio (R.Br.) F. Muell. SJF 2640, 2684; KFK 9285A; MIB/BB 15, 131, 251, 256, 405

Tufted fern from short rhizome. In sheltered sandstone overhangs of Bungle Bungle massif and on sheltered clay-loam bank adjacent to drying pool on Red Rock Ck.

Cheilanthes tenuifolia (Burm.f.) Sw. MIB/BB 129, 201, 208

Dark, finely dissected fern to 0.3 m. On rocky ledge in Piccaninny Gorge.

Cheilanthes sp. SJF 2627

Tufted fern. In crevices of sandstone wall in creek valley on Bungle Bungle plateau.

BLECHNACEAE

Blechnum orientale L. SJF 1989

Tufted rhizomic fern to 0.7 m high. At base of cliff amongst closed forest in Winnama Gorge.

GLEICHENIACEAE

Dicranopteris linearis (Burm.f.) L.Underw. ASW 14712

Scrambling fern. In shaded seepage area of cliff in Piccaninny Gorge.

HEMIONITIDACEAE

Taenitis pinnata (J.Sm.) Holtt. SJF 2596

Rhizomic, to 0.5 m. On sandstone wall in chasm of Bungle Bungle massif. First record for W.A.

LINDSAEACEAE

Lindsaea ensifolia Sw. SJF 1988; ASW 14710, 14711, 14713; MIB/BB 328

Rhizomic fern to 0.5 m. At base of sheltered cliff of Winnama Gorge under closed forest and on seepage area of shaded rock wall in Piccaninny Gorge.

MARSILEACEAE

Marsilea mutica Mett. SJF 2691; MIB/BB 189, 357

Stoloniferous fern with floating and emergent leaves. In and on sandy margins of drying pool of Red Rock Ck.

OLEANDRACEAE

Nephrolepis hirsutula (Forster) C.Presl. SJF 1990; JHW s.n.

Rhizomic, to 0.5 m. On sheltered rock wall amongst closed forest in Winnama Gorge.

PSILOTACEAE

Psilotum nudum (L.) P. Beauv. SJF 1975; ASW 14716

Rhizomatous, dichotomously branched fern with linear stems, leaves absent. On sheltered rock wall amongst closed forest in Winnama Gorge and on seepage area of shaded rock wall amongst other ferns in Piccaninny Gorge.

SCHIZAEACEAE

Lygodium microphyllum (Cav.) R.Br. EAC 195; JHW s.n.

Trailing and ascending into shrubs on sandstone cliffs amongst closed forest in Winnama Gorge. Also sighted in Piccaninny Gorge (ASW) and in Osmond Valley.

THELYPTERIDACEAE

Cyclosorus interruptus (Willd.) H.Ito KFK 9187; EAC 231

Rhizomatous fern to 0.7 m. In open flat marshy areas along margins of *Melaleuca leucadendra*, *Pandanus*? *semiarmatus* swamps in Osmond Valley.

SPERMATOPHYTA

GYMNOSPERMAE

CYCADACEAE

- Cycas pruinosa* Maconochie SJF 2526; NHS 84-291; KFK 9200
Palm-like plant to 0.1 m with stout trunk, leaves glaucous, pruinose, dioecious. Localised on rocky outcrop of sandstone in Osmond Valley and on Osmond plateau in seasonally wet areas.

ANGIOSPERMAE

MONOCOTYLEDONAE

APONOGETONACEAE

- Aponogeton elongatus* F.Muell. ex Benth. MIB/BB 6, 165; ASW 14714
Aquatic with floating leaves and emergent inflorescences, corms edible, flowers yellow. In ephemeral pools to 2 m deep in Piccaninny Gorge.

ARACEAE

- Colocasia esculenta* (L.) Schott. SJF 2035S, 2516S; KFK 9188; NHS 84-290
Bulbous and rhizomatous semi-aquatic with erect stems to 0.8 m, rooting at nodes. In permanent creek on organic humus under riparian closed forest in Winnama Gorge and Osmond Valley. Populations sterile at time of visit.

ARECACEAE

- Livistona* sp. SJF 2535S; KFK 9212
Palm 2 m high, leaves grey-green. Adjacent to permanent creek in margin of riparian closed forest at Wulwuldji.
- Livistona* sp. 'Victoria River' *sensu* D. Jones (1984) SJF 2587, NHS 84-315; KFK 9260; MIB/BB 419
Palm to 20 m, trunk naked (although occasionally clothed by old fronds for whole length where sheltered and protected from fire), petioles pruinose, leaves grey-green, fruits spherical. In chasms and on cliffs of Bungle Bungle massif.

CYPERACEAE

- Bulbostylis barbata* (Rottb.) C.B. Clarke EAC 206, 223; MIB/BB 28, 30, 33, 44, 50, 204, 259, 261, 262, 267, 268, 281, 288, 290, 293, 306, 348, 380, 401, 406, 478, 490
Tufted sedge along drainage line of *Eucalyptus collina* dominated plateau above Winnama Gorge and in Piccaninny Gorge.
- Cyperus breviculmis* R.Br. MIB/BB 491
In Piccaninny Gorge.
- Cyperus conicus* (R.Br.) Boeckler MIB/BB 47, 294
In Piccaninny Gorge.
- Cyperus cunninghamii* (C.B. Clarke) C.Gardner subsp. ined. SJF 2636S; MIB/BB 468
Tufted resinous sedge with brittle spikelets. Along dry drainage line of Bungle Bungle plateau. Also in Piccaninny Gorge.
- Cyperus cunninghamii* (C.B. Clarke) C.Gardner subsp. ined. MIB/BB 49, 280
In sandstone fissure, Piccaninny Gorge.
- Cyperus cuspidatus* Kunth MIB/BB 31, 344
In Piccaninny Gorge.

- Cyperus eleusinoides* Kunth KFK 9194
Rhizomatous sedge, inflorescence pale straw coloured. On edge of flowing creek in riparian forest of Osmond Valley.
- Cyperus flaccidus* R.Br. vel aff. MIB/BB 39, 341
In Piccaninny Gorge.
- Cyperus holoschoenus* R.Br. SJF 2033, 2637; EAC 208; MIB/BB 46, 271
Rush-like perennial in sandy drainage lines.
- Cyperus microcephalus* R.Br. subsp. *microcephalus* MIB/BB 336
In Piccaninny Gorge.
- Cyperus microcephalus* R.Br. subsp. ined. EAC 211; JHW s.n.
Tufted sedge along drainage line of *Eucalyptus collina* dominated plateau above Winnama Gorge.
- Cyperus polystachyos* Rottb. SJF 1976
Tufted sedge to 0.3 m. Amongst rocks in river sand under closed forest in Winnama Gorge. First record for W.A.
- Cyperus pulchellus* R.Br. MIB/BB 35, 203
In Piccaninny Gorge.
- Cyperus sporobolus* R.Br. subsp. nov. EAC 208; JHW s.n.
Erect sedge to 0.3 m. Along drainage line of *Eucalyptus collina* dominated sandstone plateau above Winnama Gorge.
- Cyperus squarrosus* L. MIB/BB 40, 48
In Piccaninny Gorge.
- Cyperus vaginatus* R.Br. SJF 2545, 2659; NHS 84-320
Tussock to 0.5 m. On sandy strands of major creeks.
- Eleocharis atropurpurea* Kunth MIB/BB 29, 226, 260, 282, 349, 489.
In Piccaninny Gorge.
- Fimbristylis acuminata* M.Vahl MIB/BB 350
In Piccaninny Gorge.
- Fimbristylis cinnamometorum* (M.Vahl) Kunth EAC 207
Tufted sedge along drainage line of *Eucalyptus collina* dominated plateau above Winnama Gorge.
- Fimbristylis depauperata* R.Br. MIB/BB 41, 43, 161, 263, 264, 265, 266, 284, 285, 287, 292, 296, 325
In Piccaninny Gorge.
- Fimbristylis littoralis* Gaudich. MIB/BB 37, 291, 295, 298, 327, 347
Sedge with flat succulent leaves. In Piccaninny Gorge.
- Fimbristylis microcarya* F.Muell. vel aff. MIB/BB 273, 299, 300, 304, 307, 308, 315, 320, 322, 339, 345, 389, 470
In Piccaninny Gorge.
- Fimbristylis microcarya* F.Muell. MIB/BB 27, 32, 45, 51, 76, 164b, 279, 286, 330, 335, 382, 411
In Piccaninny Gorge.
- Fimbristylis* aff. *neilsonii* F. Muell. MIB/BB 232
In Piccaninny Gorge.
- Fimbristylis nuda* Boeckler MIB/BB 340, 487
In Piccaninny Gorge.
- Fimbristylis sphaerocephala* Benth. EAC 205A; MIB/BB 42, 283, 319
Abundant sedge in small sandy spaces between rocks. Along drainage line of *Eucalyptus collina* dominated plateau above Winnama Gorge.

- Fimbristylis tetragona* R.Br. EAC 229
Tufted sedge to 0.5 m. Along permanent creek under riparian closed forest in Osmond Valley.
- Fuirena ciliaris* (L.) Roxb. MIB/BB 85, 289
In Piccaninny Gorge.
- Fuirena umbellata* Rottb. EAC 225; KFK 9193
Rhizomatous, broad leaved flaccid sedge to 1 m, inflorescence brown. In swampy stream of Osmond Valley with dense *Cyclosorus interruptus* and *Pandanus* ? *semiarmatus*.
- Lipocarpa microcephala* (R.Br.) Kunth JHW s.n.; MIB/BB 36, 38, 163, 334, 390
Ephemeral tufted sedge to 0.2 m. On dry quartzite hills forming Winnama Gorge.
- Rhynchospora affinis* W.Fitzg. MIB/BB 34, 159
Inflorescence bronze. In Piccaninny Gorge.
- Schoenoplectus lateriflorus* (J.Gmelin) Lye SJF 2690
Tufted sedge buried at tips. On sandy margins of drying pools along ephemeral stream.
- Schoenoplectus mucronatus* (L.) Palla ex Kerner KFK 9195
Rhizomatous sedge forming swards. On edge of flowing creek in Osmond Valley.
- Scleria brownii* Kunth SJF 1978; JHW s.n.
Low sedge. On steep rocky northern slope above Winnama Gorge.

ERIOCAULACEAE

- Eriocaulon cinereum* R.Br. SJF 2685, 2689; MIB/BB 137, 162, 224, 332, 469
Rosetted herb with white flowers. On sandy margins of drying pools along Red Rock Ck.
- Eriocaulon* sp. EAC 194
Rosetted herb. On margin of semi-permanent stream at Winnama Gorge. Uncommon.

NAJADACEAE

- Najas tenuifolia* R.Br. JHW s.n.; MIB/BB 479B
Aquatic herb. In permanent stream at Winnama Spring.

ORCHIDACEAE

- Cymbidium canaliculatum* R.Br. (SR)
Epiphytic orchid forming tussocks to 0.3 m. Typically on *Eucalyptus papuana*.

PANDANACEAE

- Pandanus integer* H.St.John vel aff. SJF 2517
Palm-like tree to 6 m, branched above. In swampy bed of permanent stream in Osmond Valley.
- Pandanus spiralis* R.Br. var. *thermalis* (St.John) B.C.Stone SJF 2027; KFK 9202
Palm-like to 10.m, branched in upper section. On levee above permanent stream at Winnama Springs and Wulwuldji.

PHILYDRACEAE

- Philydrum lanuginosum* Gaertner SJF 2036
Soft reed-like perennial with distichous leaves. In swamp at Winnama Spring.

POACEAE

- Aristida browniana* Henrard (SR)
Tufted perennial to 0.5 m with 3 partite awn on prominent column.
Abundant on interfluves in Osmond Valley and near Winnama Gorge.
- Arundinella nepalensis* Trin. EAC 186; KFK 9209
Rhizomatous, caespitose grass forming tussocks to 1 m, deeply rooted, inflorescence straw-coloured. In sand on banks of ephemeral and semi-permanent streams and in damp areas under riparian forest.
- Brachiaria piligera* (F.Muell. ex Benth.) Hughes MIB/BB 317, 323
On creek bed. In Piccaninny Gorge.
- **Cenchrus ciliaris* L. WAP s.n.
Rhizomatous perennial grass to 0.1 m. Coloniser on scalds around Bungle Bungle Outcamp.
- Coelorhachis rottboellioides* (R.Br.) A.Camus JHW s.n.
Tussocks to 1 m. On banks of ephemeral and semi-permanent streams.
- Cymbopogon bombycinus* (R.Br.) Domin SJF 1974
Tussock to 0.3 m, leaves and base of shoots with strong ginger scent when crushed. On rocky slopes.
- Cymbopogon procerus* (R.Br.) Domin SJF 2606, 2623; MIB/BB 56
Tussock to 2 m, leaves and base of shoots with strong ginger scent when crushed. In crevices on rocky slopes and rock walls in Bungle Bungle massif.
- Digitaria bicornis* (Lam.) Roemer & Schultes MIB/BB 69
In Piccaninny Gorge.
- **Echinochloa colona* (L.) Link. SJF 2031
Rhizomatous, with branched cane-like shoots to 0.3 m. On margin of ephemeral watercourse.
- Echinochloa* sp. MIB/BB 66
In Piccaninny Gorge.
- Ectrosia scabrida* C.E.Hubb. MIB/BB 55, 358, 367, 500
In Piccaninny Gorge.
- Elytrophorus spicatus* (Willd.) A.Camus SJF 2003, 2688; JHW s.n.; MIB/BB 56b, 95, 225, 314
Tufted, leaves vivid green, culms to 0.3 m. On sandy margins of drying pools in Piccaninny Gorge.
- Eragrostis cumingii* Steudel MIB/BB 59, 61, 62, 272, 305, 309, 318, 331b, 338, 364, 387, 400
In creek bed of Piccaninny Gorge.
- Eragrostis japonica* (Thunb.) Trin. SJF 2030, 2681
Tufted purplish annual to 0.2 m. On sandy strands of ephemeral creeks.
- Eragrostis speciosa* (Roemer & Schultes) Steudel MIB/BB 64
In Piccaninny Gorge.
- Eragrostis tenellula* (Kunth) Steudel MIB/BB 499
In Piccaninny Gorge.
- Eragrostis* sp. nov. KFK 9253; MIB/BB 57, 270, 368
Caespitose grass, inflorescence straw coloured. Common in sandstone crevices of gorge on west side of Bungle Bungle.
- Eriachne ciliata* R.Br. JHW s.n.; NHS 84-292; MIB/BB 13, 65, 164, 239, 257, 303
Frequent annual to 0.3 m. Among quartzite declivities on southern side of Winnama Gorge and Osmond Valley, common in Piccaninny Gorge.

- Eriachne obtusa* R.Br. EAC 205
Robust cane-like perennial to 1 m, branched above. On *Eucalyptus collina* dominated plateau above Winnama Gorge.
- Eriachne* sp. nov. aff. *tenuiculmis* W.Hartley KFK 9251
Caespitose grass forming rank stands. Common in sheltered overhangs and crevices of sandstone in gorge on west side of Bungle Bungle.
- Eulalia fulva* (R.Br.) Kuntze SJF 1996
Tussock forming rhizomatous perennial to 1.5 m. Occasionally dominant along ephemeral streams and on stream levees.
- Heteropogon contortus* (L.) P.Beauv. ex Roemer & Schultes SJF 1995, 2607
Erect, reddish cane-like perennial to 0.5 m. Forming swards on degraded areas of plains.
- Iseilema* sp. affin. *macratherum* Domin JHW s.n.
Tufted reddish annual to 0.5 m. On sandy flat at mouth of Winnama Gorge.
- Ophiuros exaltatus* (L.) Kuntze SJF 2034
Cane-like perennial forming swards to 2 m. In sheltered positions on creek banks and low lying plains.
- Panicum decompositum* R.Br. SJF 2032
Tufted annual to 0.3 m. On margin of drying pool at Winnama Springs.
- Panicum mindanaense* Merr. MIB/BB 75, 191, 240
In Piccaninny Gorge.
- Paspalidium clementii* (Domin) C.E.Hubb. JHW s.n., EAC 210
Low, almost cushion-forming annual. Among rocks under *Eucalyptus collina* on rocky plateau above Winnama Gorge.
- Paspalidium rarum* (R.Br.) Hughes MIB/BB 67, 72, 73, 205, 342
In Piccaninny Gorge.
- Perotis rara* R.Br. MIB/BB 70
In Piccaninny Gorge.
- Phragmites karka* (Retz.) Trin. ex Steudel SJF 2655S
Rhizomic with canes to 1 m. Forming sward on sandy bank of permanent pool on Ord River.
- Plectrachne bynoei* C.E.Hubb. SJF 2573; KFK 9254; MIB/BB 60, 466
Hummock grass. On ledges of scree and boulder slopes of Bungle Bungle massif.
- Plectrachne pungens* (R.Br.) C.E.Hubb. SJF 2556
Hummock grass to 1.5 m diameter and 0.5 m high. On grey sandy-loam floodplains amongst sand plains surrounding Bungle Bungle massif.
- Plectrachne* sp. MIB/BB 63
In Piccaninny Gorge.
- Schizachyrium fragile* (R.Br.) A.Camus MIB/BB 58,269.
In Piccaninny Gorge.
- Schizachyrium pseudeulalia* (Hosowaka) S.T.Blake MIB/BB 321, 329, 333, 337, 481
In Piccaninny Gorge.
- Sehima nervosum* (Rottler.) Stapf. SJF 2012
Lax tussock grass to 1 m. On stream levee at Winnama Springs.
- Themeda australis* (R.Br.) Stapf. SJF 2664
Tufted perennial about 0.5 m. Extremely rare on black soil plain.
- Triodia microstachya* R.Br. KFK 9298
Viscid hummock grass, inflorescence maroon. Very common on sandstone in Piccaninny Gorge.

- Triodia procera* R.Br. NHS 84-370
Hummock grass to 2 m diameter and 0.5 m high, rather lax. In dry sandy bed of Red Rock Ck.
- Tripogon loliiformis* (F.Muell.) C.E.Hubb. MIB/BB 71
In Piccaninny Gorge.
- Whiteochloa capillipes* (Benth.) Lazarides MIB/BB 301
In Piccaninny Gorge.
- Whiteochloa cymbiformis* (Hughes) B.K.Simon MIB/BB 363
In Piccaninny Gorge.
- Yakirra australiensis* (Domin) Lazarides & R.Webster MIB/BB 464
In Piccaninny Gorge.
- Yakirra muelleri* (Hughes) Lazarides & R.Webster MIB/BB 78
In Piccaninny Gorge.

PONTEDERIACEAE

- Monochoria cyanea* (F.Muell.) F.Muell. MIB/BB 143, 255
Aquatic, leaves long-petioled, radical; flowers dark blue. On edge of ephemeral pools in Piccaninny Gorge.

TACCACEAE

- Tacca leontopetaloides* (L.) Kuntze MIB/BB 199, 214, 335
Bulbous renascent perennial, leaves lobed. In canyon north-east of Piccaninny Gorge.

DICOTYLEDONAE

ACANTHACEAE

- Dicliptera glabra* Decne. MIB/BB 128
Herb to 0.5 m, leaves linear lanceolate, stems with prominent ovate involucre bracts subtended by a pair of spines. Along stream frontage below Winnama Gorge.
- Hypoestes floribunda* R.Br. SJF 1981
Slender shrub to 0.5 m with magenta flowers. On steep quartzite rocky slope above Winnama Gorge. [Intergrade between vars. (Robyn Barker pers. comm.)]
- Nelsonia campestris* R.Br. SJF 2639; MIB/BB 155, 176
Sprawling herb with white flowers. On ephemeral stream draining Bungle Bungle massif and in Piccaninny Gorge.

AIZOACEAE

- Glinus oppositifolius* (L.) DC. MIB/BB 147, 494, 497
Prostrate herb, flowers white. In Piccaninny Gorge.
- Trianthema pilosa* F.Muell. MIB/BB 174, 452
Procumbent herb to 0.5 m, densely hispid, flowers pink, in axillary clusters. In Piccaninny Gorge.

AMARANTHACEAE

- **Aerva javanica* (Burm.f.) Juss. ex Schultes MN s.n.
Shrub to 0.5 m, flowers woolly, pale grey. Occasional on degraded sites, especially black soil plains.
- Alternanthera denticulata* R.Br. var. *micrantha* Benth. SJF 2670; KFK 9299; JHW s.n.; NHS 84-375; MIB/BB 126
Open shrub to 0.3 m, flowers greenish/white. On rocky outcrops.

Amaranthus ? cuspidifolia Domin MIB/BB 127

Herb, leaves spatulate, inflorescence axillary and forming terminal raceme. In Piccaninny Gorge.

Gomphrena canescens R.Br. MIB/BB 227

Herb to 0.5 m, flowers pink. In sand in Piccaninny Gorge.

Ptilotus capitatus (F.Muell.) C.Gardner CD 663

Perennial herb. On limestone ridge.

Ptilotus corymbosus R.Br. JHW s.n.

Erect herb, branched above to 0.5 m, flowers white and purple. On stream levee.

ANACARDIACEAE

Buchanania obovata Engl. SJF 2037S; NHS 84-314

Small tree to 2.5 m, bark rough, grey; trunk short, strong with spreading branches. On levees and terraces.

APOCYNACEAE

Alstonia actinophylla (Cunn.) K.Schumann MIB/BB 21

Tree to 6 m, bark deeply fissured forming broad vertical projections. On scree and boulder slopes of Bungle Bungle massif.

Carissa lanceolata R.Br. (SR)

Rounded shrub to 1 m, exuding milky latex when broken. Occasional on levees, terraces and plains.

ASCLEPIADACEAE

* *Calotropis procera* (Aiton) W.T.Aiton SJF 2677

Shrub or small tree to 4 m, leaves more or less confined to branch tips, exuding milky latex when broken. On degraded black soil plains and occasional on levees and terraces. One plant recorded in Piccaninny Gorge.

Cynanchum pedunculatum R.Br. SJF 2534

Twiner to 1 m. On rocky slope at margin of closed forest in Osmond Valley.

Marsdenia cinerascens R.Br. MIB/BB 7

Twiner climbing and trailing in trees, leaves ovate-lanceolate, cordate to 10 cm, flowers pink. In Piccaninny Gorge.

Marsdenia velutina R.Br. SJF 2589A

Creeper with large, distant, velutinous leaves. In sandy streamcourse of gorge at Bungle Bungle massif.

Sarcostemma australe R.Br. SJF 2602; NHS 84-374A; MIB/BB 4

Leafless shrub to 0.3 m, exuding milky latex when broken. Rare on rocky outcrops and on scree and boulder slopes of Bungle Bungle massif.

Tylophora sp. MIB/BB 119

Climber, leaves ovate-lanceolate, to 10 cm. In Piccaninny Gorge.

ASTERACEAE

Blumea pungens W.Fitzg. SJF 2592; MIB/BB 201

Herb to 0.3 m. In gorge tract associated with Bungle Bungle massif. First collection since Type.

Blumea sp. nov. EAC 209; JHW s.n.

Sticky, aromatic herb to 0.2 m. In dry drainage channels on *Eucalyptus collina* dominated rocky plateau above Winnama Gorge.

- Centipeda* sp. KFK 9291; MIB/BB 297
Herb to 0.2 m. In rock fissure of Piccaninny Gorge. An undescribed species.
- Chrysogonum trichodesmoides* (F.Muell.) F.Muell. CD 664
Erect herb. On limestone ridge.
- Pterocaulon niveum* Cabrera SJF 2597; EAC 188; KFK 9264
White-woolly sub-shrub to 0.5 m, flowers mauve. On rocky hills and boulder and scree slopes of Bungle Bungle massif.
- Pterocaulon serrulatum* (Montr.) Guill. SJF 2526
Erect, sparsely branched sub-shrub to 0.5 m. On rocky slopes.
- Pterocaulon sphacelatum* (Labill.) F.Muell. SJF 2017, 2588, 2635
Strongly scented, erect herb, to 0.7 m. On levees and terraces of lowland creek, also entrenched creek on summit of Bungle Bungle massif.
- Pterocaulon verbascifolium* F.Muell. SJF 2015
Few stemmed upright shrub to 1 m. On levees and terraces.
- Vernonia cinerea* Less. SJF 2520; KFK 9196
Straggly shrub to 0.7 m, leaves and stems pale green, with pink flowers. On low-lying plain adjacent to permanent stream at Wulwuldji.
- Wedelia verbesinoides* F.Muell. ex Benth. NHS 84-302
Strongly aromatic semi-shrub, unbranched above. On rocky limestone outcrop.
- Asteraceae sp. SJF 2634
Densely tufted herb to 0.2 m. In sandy drainage line on Bungle Bungle plateau. Also known from Northern Territory, but undetermined.

BIGNONIACEAE

- Dolichandrone heterophylla* (R.Br.) F.Muell. NHS 84-329
Tree to 4 m. On sand plains surrounding Bungle Bungle massif.
- Pandorea* aff. *doratoxylon* (J. Black) J.Black KFK 9288; SJF 2638A; MIB/BB 211
Pendulous shrub with scandent branchlets to 1.5 m, leaves dark green, flowers white. On chasm walls and floors of Bungle Bungle massif.

BOMBACACEAE

- Adansonia gregorii* F.Muell. SJF 2007
Bottle-shaped tree to 15 m with smooth grey bark. Restricted to a few stream levees near Winnama Gorge and Bungle Bungle Outcamp.

BORAGINACEAE

- Heliotropium diversifolium* F.Muell. ex Benth. *sens. lat.* EAC 204; JHW s.n.
Dense rigid bushes to 0.3 m. In quartzite declivities of *Eucalyptus collina* dominated rocky plateau above Winnama Gorge.
- Heliotropium* sp. MIB/BB 453
Woody sub-shrub, flowers cream, leaves glabrous, lanceolate toothed, shortly petiolate. In Piccaninny Gorge.
- Heliotropium* sp. MIB/BB 171
Woody sub-shrub, flowers white. On bank of creek in Piccaninny Gorge.
- Trichodesma zeylanicum* (Burm.f.) R.Br. SJF 2679; KFK 9214
Much branched sub-shrub to 2 m with basal rosette of larger leaves, stems and leaves grey, flowers pale mauve. In riparian woodland adjacent to ephemeral stream.

BYBLIDACEAE

Byblis liniflora Salisb. MIB/BB 414, 459

Annual viscid herb, flowers mauve. In alluvial sand beside creek in Piccaninny Gorge.

CAESALPINIACEAE

Cassia venusta F.Muell. SJF 2568, 2612

Shrub to 1 m, flowers yellow. Occasional on black soil plains.

Lysiphyllum cunninghamii (Benth.) de Wit NHS 84-321

Tree to 6m, deciduous, flowers red. Dominant on stream levee and terrace and lowland plains on heavier soils.

* *Parkinsonia aculeata* L. SJF 2678

Spreading tree to 4 m with yellow flowers. Co-dominant in small, grossly degraded area around Bungle Bungle tank.

Petalostylis cassioides (F.Muell.) D.E.Symon SJF 2605, 2621; KFK 9279, 9286; MIB/BB 123, 361

Open shrub with slender arching branches to 2 m, flowers yellow. On Bungle Bungle plateau and along associated drainage.

CAPPARACEAE

Capparis lasiantha R.Br. ex DC. SJF 2650

Robust climber with recurved spines on branches climbing to 5 m on *Hakea arborescens*. On lowland plain near Ord R.

Capparis sepiaria L. NHS 84-326

Climber to 6 m twining on *Eucalyptus* sp. nov. 'Box'. In riparian forest associated with Red Rock Creek.

Capparis umbonata Lindley NHS 84-317, 84-331

Small tree. Extremely rare on rocky outcrops.

Cleome cleomoides (F.Muell.) Iltis (SR)

Shrub to 40 cm, flowers yellow. Common in alluvial soil of Piccaninny Gorge

Cleome viscosa L. (SR)

Annual herb to 1 m, flowers yellow. Common in alluvial soil of Piccaninny Gorge and on sandplain surrounding Bungle Bungle.

CARYOPHYLLACEAE

Polycarpaea involucrata F.Muell. SJF 2626; MIB/BB 146, 169

Low herb. In crevices of sandstone wall of stream on Bungle Bungle plateau.

Polycarpaea longiflora F.Muell. SJF 2613

Slender herb to 0.3 m with pink flowers. On sandplain at base of Bungle Bungle massif.

Polycarpaea sp. EAC 200

Herb to 0.1 m with reddish stems. In quartzite crevices of steep slope above Winnama Gorge.

COCHLOSPERMACEAE

Cochlospermum fraseri Planchon SJF 2000; NHS 84-336

Small tree to 3 m, deciduous at time of visit, flowers yellow. Common on rocky slopes.

COMBRETACEAE

Terminalia arostrata Ewart & O.B.Davies SJF 2542; KFK 9224; NHS 84-295

Handsome tree to 10 m with pendulous foliage and long weeping branches, bark grey, persistent. On heavier soils of lowland plains.

Terminalia bursarina F.Muell. SJF 2656; NHS 84-366

Tree to 6 m, typically bent by floodwaters, bark with large, fissured plates, flowers cream. In beds of major ephemeral streams.

Terminalia canescens (DC.) Radkl. NHS 84-343, 84-384

Small tree to 4 m, leaves conspicuous silver-grey. Common on rocky slopes.

Terminalia carpentariae C.White SJF 2004; EAC 219

Tree to 6 m with stout trunk, bark flaking in patches. In quartzite crevices of steep slope above Winnama Gorge.

Terminalia platyphylla F.Muell. SJF 2544; KFK 9225; JHW s.n.

Tree to 18 m, bark dark, fissured. Co-dominant in riparian forest along larger ephemeral streams.

Terminalia volucris R.Br. ex Benth. NHS 84-372, 84-383

Shrub to 1.5 m with open crown and straight branches. Dominant in some open scrubs at foot of stony hillslopes in Osmond Valley.

CONVOLVULACEAE

Bonamia linearis (R.Br.) H.Hallier MIB/BB 236, 381

Scandent herb with deep taproot trailing to 0.5 m, flowers white. In Piccaninny Gorge.

Ipomoea polymorpha Roemer & Schultes MIB/BB 235, 278, 360, 420, 430

Herb, flowers purple. In alluvial sand beside creek in Piccaninny Gorge.

Jacquemontia browniana Ooststr. SJF 2675

Shrub to 0.5 m, stems unbranched, leaves linear-lanceolate. At base of limestone outcrop at Giliwal.

Operculina brownii Ooststr. SJF 2548; NHS 84-297

Trailing perennial to 2 m, mature capsule with window over seeds. On basalt outcrop.

Polymeria sp. MIB/BB 362, 428

Tangled herb trailing to 0.5 m. In Piccaninny Gorge.

CUCURBITACEAE

* *Citrullus lanatus* (Thunb.) Matsumura & Nakai NHS 84-352

Trailer, stems dried. In disturbed areas near Red Rock Creek. Collected by aboriginal informants.

Trichosanthes cucumerina L. SJF 2641; KFK 9289; MIB/BB 384, 498

Weak climber to 1 m with tendrils, flowers white, perianth fringed, fruit orange, pear-shaped when mature, seeds covered in red flesh. Amongst spinifex, in alluvial sand of Piccaninny Gorge.

ELATINACEAE

Bergia pedicellaris (F.Muell.) Benth. SJF 2029, MIB/BB 492, 473, 493

Erect annual 0.1 m, leaves glossy, flowers pink. In sands along ephemeral watercourse.

EUPHORBIACEAE

Bridelia tomentosa Blume var. *glabrifolia* (Merr.) Airy Shaw SJF 2595S
Rampant shrub 2-3 m with arching cane-like branches. In sandy floor of gorge tract below Bungle Bungle massif.

Bridelia tomentosa Blume var. *trichadenia* Muell.Arg. JHW s.n.
Wide spreading bush to 2 m tall. Amongst rocks under cliff at mouth of Winnama Gorge with *Petalostigma nummularium*.

Chamaesyce aff. *micradenia* (Boiss.) Hassall JHW s.n.
Semi-shrub to 0.6 m with white petal-like appendages. Amongst fallen rocks at mouth of Winnama Gorge.

Chamaesyce sp. JHW s.n.
Low herb with a stout taproot, leaves purplish and sage green. At base of Osmond Range.

Euphorbia coghlanii Bailey SJF 2608; MIB/BB 120, 253
Open sprawling sub-shrub exuding copious milky latex when broken, flowers white. On sandy floodplain at base of Bungle Bungle massif and in Piccaninny Gorge.

* *Euphorbia hirta* L. SJF 2018
Prostrate sub-shrub exuding milky latex when broken, leaves with maroon blotch in middle. On stream levee.

Euphorbia tannensis Sprengel MIB/BB 404
Shrub to 1 m, leaves narrow, oblong. In Piccaninny Gorge.

Euphorbia aff. *tannensis* Sprengel JHW s.n.
Virgate bushes to 1.5 m, typically to 0.7 m, leaves narrow lanceolate. Amongst rocks on W facing declivity at Winnama Gorge.

Euphorbia wheeleri Baillon SJF 1994
Semi-shrub to 0.4 m. On black soil stream levee.

Mallotus nesophilus Muell.Arg. NHS 84-376
Small tree. In closed forest of Osmond Valley and gorges of Bungle Bungle massif.

Petalostigma nummularium Airy Shaw JHW s.n.
Low bushes to 1 m tall. Amongst fallen rocks under cliff at mouth of Winnama Gorge.

Phyllanthus ciccoides Muell.Arg. NHS 84-309, 84-322; JHW s.n.
Small tree to 4 m, drooping. On creek embankment at base of Osmond Range.

Phyllanthus virgatus G.Forster SJF 2576; MIB/BB 99, 188, 378
Sprawling sub-shrub. On sandy floodplain at base of Bungle Bungle massif and in Piccaninny Gorge.

Securinega melanthesoides (F.Muell.) Airy Shaw SJF 2669; NHS 84-338
Freely suckering shrub to 2 m with more or less remote cane-like stems. On limestone outcrop adjacent to permanent pool at Giliwal.

GOODENIACEAE

Dampiera conospermoides W.Fitzg. SJF 2633; KFK 9270
Wispy, open-branched, few stemmed shrub to 1 m with deep pink flowers. On summit of Bungle Bungle massif and in Piccaninny Gorge.

Goodenia heterochila F.Muell. JHW s.n.; MIB/BB 1, 77
Sprawling sub-shrub, flowers yellow. Between quartzite rocks on west facing declivities north of Winnama Gorge mouth.

Goodenia scaevolina F.Muell. SJF 2570; KFK 9249

Ascending shrub to 1.5 m with viscid leaves and stems, very pungent, flowers with deep purple centres and mauve margins. Extremely common on scree and boulder slopes of Bungle Bungle massif.

GYROCARPACEAE

Gyrocarpus americanus Jacq. subsp. *pachyphyllus* Kubitzki NHS 84-388

Stout-trunked deciduous tree to 8 m. On dry creeks and plains close to Turkey Creek, and in rock scree at base of cliff-face in Bungle Bungle.

HALORAGACEAE

Gonocarpus leptothecus (F.Muell.) Orchard EAC 221; MIB/BB 10, 480b

Sub-shrub to 0.3 m. On *Eucalyptus collina* dominated rocky plateau above Winnama Gorge and growing by creek in Piccaninny Gorge.

LAMIACEAE

Coleus scutellarioides Benth. SJF 2532; KFK 9204

Herb to 0.3 m with square stem and opposite leaves, flowers mauve fading towards pedicel. Along semi-permanent stream under closed forest in the Osmond Valley.

LAURACEAE

Cassytha capillaris Meissner MIB/BB 110

Hemi-parasitic climber, stems glabrous. Scrambling over vegetation. In Piccaninny Gorge.

Cassytha filiformis L. MIB/BB 181

Hemi-parasitic climber, stems hairy, fruit large, black. In Piccaninny Gorge.

LENTIBULARIACEAE

Utricularia chrysantha R.Br. SJF 2671

Herb to 5 cm. In soft mud on margin of Osmond Creek at Giliwal.

LOBELIACEAE

Lobelia quadrangularis R.Br. NHS 84-294, 84-379; KFK 9192; EAC 230; MN s.n.

Prostrate creeping herb rooting at nodes, with blue flowers. Under riparian forest along permanent stream at Wulwuldji.

LOGANIACEAE

Mitrasacme elata R.Br. EAC 203; MIB/BB 467

Herb to 0.2 m, flowers white. In bed of ephemeral watercourse on *Eucalyptus collina* dominated rocky plateau above Winnama Gorge and in Winnama Gorge.

Mitrasacme pygmaea R.Br. SJF 2599; MIB/BB 12, 202, 274, 277, 412, 484

Herb to 0.1 m. In crevices of chasm wall in Bungle Bungle massif.

LORANTHACEAE

Amyema benthamii (Blakely) Danser JHW s.n.

Parasitic on *Lysiphyllum cunninghamii*. On Turkey Ck above junction with Winnama Springs Ck.

Amyema bifurcatum (Benth.) Tieghem var. *eburneum* Barlow SJF 2552; KFK 9230

Hemi-parasite on *Eucalyptus dichromophloia*, pendulous from simple haustorium. South of Bungle Bungle Outcamp.

Decaisnina petiolata (Barlow) Barlow subsp. *angustata* Barlow SJF 2615

Hemi-parasite on *Buchanania obovata*, pendulous from simple haustorium, corolla scarlet with green reflexed tips. On sandy floodplains of creek draining northern escarpment of Bungle Bungle massif.

Lysiana spathulata (Blakely) Barlow subsp. *spathulata* SJF 2616; JHW s.n.; MIB/BB 170

Hemi-parasite on *Acacia stipuligera*, simple haustorium, corolla scarlet with apex of tube and free segments yellow-green. On sandy floodplains of creek draining northern escarpment of Bungle Bungle massif and near Winnama Gorge.

Lysiana subfalcata (Hook.) Barlow SJF 2546, 2651, 2663; KFK 9226; EAC 227

Hemi-parasite on *Lysiphyllum cunninghamii* and *Capparis lasiantha* from simple haustorium, pendulous, corolla scarlet, becoming yellow to green at apex. Common on stream frontage and interfluves throughout the study area.

LYTHRACEAE

Ammania multiflora Roxb. SJF 2002; MIB/BB 310, 326

Herb to 0.1 m, flowers pale pink. In drying sand of Winnama Gorge and Piccaninny Gorge.

Rotala diandra (F.Muell.) Koehne SJF 2680; MIB/BB 346

Herb with ascending stems, rooting from nodes. On sandy margins of ephemeral pools along Red Rock Ck and in Piccaninny Gorge.

Rotala mexicana Cham. & Schldl. JHW s.n.; MIB/BB 403, 472, 495, 496

Semi-aquatic succulent, prostrate herb, to 0.2 m. Near Winnama Spring and in Piccaninny Gorge.

MALVACEAE

Gossypium australe F.Muell. SJF 2543, 2687A; KFK 9244; MIB/BB 426

Open shrub to 2 m, petals pink with maroon blotch at base. Forming dense stands on heavier soils around Bungle Bungle massif.

Hibiscus leptocladus Benth. *sens. lat.* SJF 2646; JHW s.n.; EAC 233; MIB/BB 106, 158, 233

Few stemmed shrub to 1 m, petals pink with maroon blotch at base. In gorge tract of Piccaninny Ck and on stream levees around Winnama Gorge and Turkey Ck.

Hibiscus meraukensis Hochr. SJF 2524; EAC 234

Low shrub to 0.5 m. On low-lying plain adjacent to permanent stream of the Osmond Valley at Wulwuldji.

Hibiscus setulosus F.Muell. JHW s.n.

Little-branched, very spiny sub-shrub to 0.6 m. Among quartzite rocks on west facing declivity above Winnama Gorge.

Hibiscus sp. nov. EAC 233A

Shrubs to 1 m. On levee of semi-permanent stream in the Osmond Valley. An undescribed species = Fryxell & Craven 4000 (CANB).

Hibiscus sp. nov. 'Middle Springs' SJF 1977

Open shrub to 2 m, petals pink with maroon blotch at base. On steep rocky, quartzite slope at Winnama Gorge. Second record of species.

- Sida rohlenae* Domin MIB/BB 108, 207, 212
Shrub to 20 cm, leaves ovate-lanceolate, dentate, grey, grey-green. In Piccaninny Gorge.
- Sida ? spinosa* L. MIB/BB 107
Shrub. In Piccaninny Gorge.

MELIACEAE

- Melia azederach* L. NHS 84-357
Tree to 6 m. Near spring sheltered under limestone cliffs at Djimbitjba.
- Owenia vernicosa* F.Muell. EAC 222
Tree to 4 m, branched above. In declivity on steep, rocky quartzite slope at Winnama Gorge.

MENISPERMACEAE

- Stephania japonica* (Thunb.) Miers var. *timoriensis* (DC.) Forman SJF 2589S; MIB/BB 9
Scrambler with peltate leaves, climbing 1-2 m. In gorge of Bungle Bungle massif. First record for Western Australia.
- Tinospora smilacina* Benth. JHW s.n.
Climber to 5 m. Occasional on stream frontage and levees.

MENYANTHACEAE

- Nymphoides indica* (L.) Kuntze SJF 2693
Aquatic herb with floating leaves. Stranded on sandy margin of drying pool on Red Rock Ck.

MIMOSACEAE

- Acacia acradenia* F.Muell. KFK 9265; NHS 84-306, 84-327; MIB/BB 168, 402, 455
Slender low tree to 3 m, bark brown, smooth. Below limestone cliff and on plain near Bungle Bungle Outcamp, in reddish sandy soil and in Piccaninny Gorge.
- Acacia coriacea* DC. NHS 84-343
Low tree with hard black bark. In savanna woodland on undulating flats fringing Red Rock Ck.
- Acacia cowleana* Tate SJF 2561
Shrub to 1 m. On stony slope dominated by *Eucalyptus brevifolia* and spinifex.
- Acacia dunnii* (Maiden) Turrill EAC 213
Slender shrub to 4 m, glaucous, heavily predated by insects. On *Eucalyptus collina* dominated rocky plateau above Winnama Gorge.
- Acacia eriopoda* Maiden & Blakely SJF 2644; KFK 9274, 9297; MIB/BB 53
Small tree with open crown, to 8 m, phyllodes linear to 30 cm, bark smooth, flowers yellow. Associated with Bungle Bungle massif, especially along drainage lines.
- Acacia farnesiana* (L.) Willd. SJF 2566, 2672; NHS 84-363
Tree to 3 m, bark smooth with prominent lenticels. On degraded creekbanks at Bungle Bungle Outcamp and Giliwal.
- Acacia gonocarpa* F.Muell. NHS 84-310; SJF 2554; KFK 9234, 9287; CD 666; MIB/BB 256
Shrub to 2 m, bark smooth, dark with red-brown furrows, flowers yellow. On sandplains surrounding Bungle Bungle massif, forming dense understorey to *Eucalyptus collina*.

- Acacia hemignosta* F.Muell. SJF 2540; KFK 9220
Tree to 5 m with blue-grey glaucous leaves and rough, dark platey bark, flowers pale yellow. On quartzite rise and amongst levee and terrace complex near Dutbu.
- Acacia holosericea* Cunn. ex Don SJF 2525, 2567
Tree to 5 m with smooth dark bark and conspicuously angled stems. On stream levee and terrace complex.
- Acacia laccata* Pedley KFK 9277
Much branched shrub 2 m, bark smooth, brown. In massive rock of Bungle Bungle plateau.
- Acacia ? leptophleba* F.Muell. SJF 2008; JHW s.n.
Shrub to 2 m. On permanent stream levee at Winnama Gorge.
- Acacia lycopodifolia* Cunn. ex Hook. SJF 2024, 2647; EAC 189, 224; KFK 9199; JHW s.n.; MIB/BB 104, 247
Low straggly shrubs to 0.1 m, leaves grey-green, flowers yellow. On dry hillsides and sandstone scree slopes.
- Acacia lysiphloia* F.Muell. KFK 9221, 9246; SJF 2539
Sprawling shrub to 4 m, bark reddish-brown, 'Minni Ritchi', flowers yellow, pods viscid. Forming dense stands in red soil over rocky scree.
- Acacia monticola* J.Black SJF 2582; KFK 9248, 9290; CD 665; MIB/BB 105
Small tree to 3 m with reddish 'Minni Ritchi' bark, leaves viscid, flowers yellow. In sandy bank of ephemeral stream draining gorge of Bungle Bungle massif.
- Acacia orthocarpa* F.Muell. JHW s.n.
Shrub to 2 m with terete phyllodes and erect pods. At Winnama Gorge.
- Acacia pellita* O.Schwarz KFK 9191; EAC 192; CD 662
Shrub to 7 m, bark smooth, grey, flowers yellow. Adjacent to permanent creek at Winnama Gorge and at Wulwuldji.
- Acacia platycarpa* F.Muell. NHS 84-360
Upper trunk and branches glaucous, with platey fibrous bark at base, to over 2.5 m. Dominant in scrub at base of limestone cliffs.
- Acacia plectocarpa* Cunn. ex Benth. SJF 2066, 2683; JHW s.n.
Straight tree to 10 m, typically with crown confined to upper third, bark black, hard, deeply fissured. On stream strands and levees.
- Acacia retivenia* F.Muell. SJF 2536; & glabrous var. SJF 2618; KFK 9215, 9278; CD 671; MIB/BB 100.
Shrub or small tree to 6 m, bark smooth, brown, flowers yellow. On stream levee; glabrous variant. On summit of Bungle Bungle massif and in Piccaninny Gorge.
- Acacia stipuligera* F.Muell. SJF 2555, 2617; KFK 9233; NHS 84-311; CD 668
Shrub to 3 m with smooth, grey bark. On sandy banks of ephemeral streams draining gorges of Bungle Bungle massif.
- Acacia translucens* Cunn. ex Hook. EAC 215; JHW s.n.
Low shrub to 0.5 m. Around escarpment of *Eucalyptus collina* dominated rocky plateau above Winnama Gorge.
- Acacia tumida* F.Muell. ex Benth. SJF 2662; EAC 226; NHS 84-312; KFK 9216, 9245, 9281; MIB/BB 102
Shrub or small tree to 4 m, stems and leaves glaucous, degree of glaucousness extremely variable; flowers yellow. On stream levees and interfluves.

Acacia sp. sub-series *Lycopodiifoliae* SJF 2527; KFK 9197
Open shrub to 1.5 m, flowers yellow. On quartzite outcrop and sandstone scree slopes.

MORACEAE

Ficus coronulata F.Muell. NHS 84-365

Sub-dominant riparian tree to 10 m. On ephemeral and semi-permanent streams of plains and broad valleys of permanent streams.

Ficus leucotricha Miq. var. *megacarpa* F.Muell. KFK 9276; SJF 1982, 2630

Spreading shrub or small tree to 3 m, fruits yellow. On steep rocky hillsides and rock walls of sandstone.

Ficus opposita Miq. var. *indecora* (Miq.) Corner NHS 84-333

Low tree with virtually divaricate branches and rounded crown. In riparian open forest with *Celtis philippinensis* south of Bungle Bungle Outcamp.

Ficus opposita Miq. var. *micracantha* (Miq.) Corner SJF 2563; NHS 84-307

Rounded tree to 3 m with rough, dark, fissured bark. On steep limestone outcrop.

Ficus aff. *opposita* Miq. var. ? NHS 84-323

Spreading tree to 10 m with smooth grey bark. In riparian open forest near Bungle Bungle Outcamp.

Ficus platypoda (Miq.) Cunn. ex Miq. aff. var. *cordata* Specht SJF 2629

Tree to 3 m with meandering roots, fruits purple when mature. Over sandstone wall of ephemeral stream on Bungle Bungle plateau.

Ficus platypoda (Miq.) Cunn. ex Miq. var. *lachnocaula* (Miq.) Benth. SJF 2674

Tree to 6 m with roots running over limestone. On limestone outcrop at Giliwal with *Celtis philippinensis* and *Lysiphyllum cunninghamii*.

Ficus platypoda (Miq.) Cunn. ex Miq. var. *minor* Benth. KFK 9263

Rock fig to 5 m, bark grey, figs green subtended by three papery caducous bracts.

Ficus platypoda (Miq.) Cunn. ex Miq. var. *platypoda* KFK 9295; SJF 2604; NHS 84-303; MIB/BB 218

Spreading tree to 3 m x 3 m with aerial roots, fruits yellow. In sandstone declivity of ephemeral stream below Bungle Bungle massif.

Ficus racemosa L. var. *racemosa* KFK 9184; SJF 1979

Spreading tree to 10 m with multiple trunks, bark smooth pale grey with prominent lenticels, fruits cauliflorous, tan when mature. On permanent and semi-permanent streams.

Ficus tinctoria G.Forster subsp. *tinctoria* KFK 9236; MIB/BB 8, 98

Tree to 5 m, bark dark brown, fissured, figs pale green. In alluvium by creek. Only the fourth collection from W.A.

Ficus virens Aiton var. ? NHS 84-355

Low tree with short trunk, multibranched with smooth grey bark. At the base of limestone cliffs associated with *Celtis philippinensis* at Mawundungi.

MYOPORACEAE

Myoporum acuminatum R.Br. SJF 2591, 2598

Shrub to 2 m with conspicuously shiny leaves, flowers white with four mauve blotches, fruits maroon. Occasional on scree and boulder slopes of Bungle Bungle massif, and along streams draining the escarpment.

MYRTACEAE

Calytrix achaeta F.Muell. SJF 2577; KFK 9283

Shrub to 1 m with cream flowers. On scree and boulder slope of Bungle Bungle massif.

Calytrix brachychaeta (F.Muell.) Benth. SJF 2009; JHW s.n.

Shrub to 1.5 m with white flowers. Amongst rocks in riparian forest at Winnama Spring.

Calytrix exstipulata DC. SJF 1980, 2574; KFK 9284; JHW s.n.; NHS 84-362

Shrub to 1.5 m with pink flowers. Abundant on sandstone and quartzite throughout the study area.

Eucalyptus aspera F.Muell. SJF 2583; KFK 9256; JHW s.n.; MIB/BB 93

Much branched tree to 8 m with sage-green leaves and smooth grey bark shedding in darker grey patches. Along ephemeral creeks of sandstone and quartzite plateaus and escarpments.

Eucalyptus brachyandra F.Muell. SJF 2571; CD 669

Crooked tree to 3 m, branching low to ground, bark thick, box-like, fibrous and furrowed on trunk, branches smooth white. On boulder and scree slopes of Bungle Bungle massif and in deep sandstone gorge.

Eucalyptus brevifolia F.Muell. JHW s.n.; NHS 84-318, 84-330

Tree to 5 m with grey-green leaves and smooth white bark. Dominant on rocky slopes and skeletal soils.

Eucalyptus sp. aff. *brevifolia* F.Muell. 'Silvery' EAC 235

Tree to 5 m with smooth white bark and silvery shoots. On low lying plain in Turkey Ck catchment.

Eucalyptus sp. aff. *brevifolia* F.Muell. 'Grey-green' SJF 2560; NHS 84-301

Tree to 5 m with smooth white bark, grey-green leaves and large fruits. On rocky slope.

Eucalyptus camaldulensis Dehn. SJF 2661; NHS 84-364

Tree to 10 m with smooth white bark. Riparian on major ephemeral streams and Ord R.

Eucalyptus cliftoniana W.Fitzg. ex Maiden SJF 2569; EAC 217; JHW s.n.; KFK 9257, 9280

Tree to 10 m with new shoots yellow-green, bark tessellate, papery, persistent. Common and dominant on steep slopes and rocky plateaus of Osmond Range and Bungle Bungle massif.

Eucalyptus collina W.Fitzg. SJF 2559; KFK 9235, 9271; JHW s.n.; NHS 84-299, 84-300

Tree to 9 m with new shoots silvery, bark silvery-white, smooth with some cream and grey mottling, fibrous to flaky. On sandplains surrounding Bungle Bungle massif and on Osmond Ranges, also associated with streams on massif plateau.

Eucalyptus confertiflora F.Muell. KFK 9261; NHS 84-324

Tree to 15 m with stocking of dark, rough bark, remainder white, smooth. Abundant on stream levees and terraces.

Eucalyptus cupularis C.Gardner (SR)

Recorded by C. Done from the Osmond Range.

Eucalyptus dichromophloia F.Muell. SJF 2014, 2551; KFK 9229; JHW s.n.

Tree to 10 m with new shoots yellow-green, bark tessellated, flaking and mottled below, smooth above. Common on stream levees and terraces, interfluves and rocky slopes.

- Eucalyptus herbertiana* Maiden SJF 2631
Crooked tree to 6 m with smooth white bark and some grey and red mottling. In gorge of ephemeral stream on Bungle Bungle plateau.
- Eucalyptus papuana* F.Muell. (SR)
Tree 10 m with smooth white bark. Common along Red Rock Ck.
- Eucalyptus* sp. aff. *papuana* F.Muell. SJF 2665; NHS 84-351
Tree to 8 m with smooth white bark, and large leaves. On levee of Red Rock Creek.
- Eucalyptus pruinosa* Schauer SJF 2016, 2541; KFK 9223
Crooked tree to 6 m with silvery pruinose leaves, bark rough fissured and persistent. On terraces of Osmond and Turkey Cks.
- Eucalyptus* aff. *pruinosa* Schauer SJF 2553; KFK 9232
Tree to 6 m with conspicuously pruinose, silver-blue lanceolate leaves and rough grey-brown bark, flowers white. On grey clay-loam plain and on calcareous red earths.
- Eucalyptus ptychocarpa* F.Muell. SJF 2025; KFK 9218
Spreading tree to 8 m with discolorous, large, vertically hanging leaves, bark rough, fibrous, furrowed and persistent. On low lying plains adjacent to semi-permanent creeks of Osmond Valley.
- Eucalyptus* aff. *terminalis* F.Muell. SJF 2550; KFK 9222, 9228, 9238
Tree to 10 m, bark tessellated, flaking and mottled orange-white below, smooth above, leaves dark green, vertically hanging. On brown sandy loam adjacent to ephemeral creek west of Bungle Bungle massif.
- Eucalyptus* sp. nov. 'Box' KFK 9267; NHS 84-325, 84-350
Tree to 8 m, bark fibrous. In alluvium and sandstone scree.
- Leptospermum parviflorum* Valetton KFK 9301; SJF 2638B
Tree to 5 m, bark papery, reddish, branchlets weeping, flowers cream. On Piccaninny Ck and associated with seepage on chasm walls of Bungle Bungle massif. First record for W.A.
- Lophostemon grandiflorus* (Benth.) Peter G. Wilson & J.T. Waterhouse subsp. *riparius* (Domin) Peter G. Wilson & J.T. Waterhouse SJF 2645; MIB/BB 87
Tree to 6 m with dark, rough, fissured bark. Dominant along ephemeral streamcourses of lowlands and plains; also in Piccaninny Gorge.
- Melaleuca leucadendra* (L.) L. SJF 2522; KFK 9186
Tree to 20 m with white papery bark. Co-dominant along permanent and semi-permanent creeks of Osmond Valley.
- Melaleuca nervosa* (Lindley) E.Cheel subsp. nov. NHS 84-344, 84-345
Tree to 5 m with tough paperbark to major branches. Dominant on some seasonally inundated flats of Red Rock Creek.
- Syzygium angophoroides* (F.Muell.) B.Hyland SJF 2529S; KFK 9205
Tree to 15 m, bark papery, grey with reddish blotches, new shoots red. Sub-dominant in closed forest along semi-permanent stream in Osmond Valley, restricted to sheltered gully.
- Syzygium eucalyptoides* (F.Muell.) B.Hyland subsp. *eucalyptoides* SJF 2658
Graceful tree to 6 m, widely spreading with foliage drooping to ground. In riparian forest on strand of Ord R. at Blue Holes.

NYCTAGINACEAE

- Boerhavia paludosa* (Domin) Meikle JHW s.n.; MIB/BB 175
Tangled herb to 1.3 m tall. On scree slope under quartzite bluff of Winnama Gorge and in Piccaninny Gorge.

OLEACEAE

Jasminum molle R.Br. NHS 84-346

Semi-shrub to 0.5 m. In savanna woodland on undulating flats fringing Red Rock Ck.

ONAGRACEAE

Ludwigia octovalvis (Jacq.) Raven SJF 1999, 2682

Sub-shrub to 1 m with primrose flowers. On sandy strands of ephemeral streams.

Ludwigia perennis L. SJF 2001; MIB/BB 144

Herb. to 0.5 m with primrose flowers. On sandy course of drainage line at Winnama Gorge and in Piccaninny Gorge.

OPILIAACEAE

Opilia amentacea Roxb. SJF 2668; NHS 84-37

Scandent shrub to 4 m, bark with prominent vertical lenticels, leaves olive-yellow. On limestone outcrop at Giliwal.

PAPILIONACEAE

Atylosia pubescens (Ewart & Morrison) Reynolds & Pedley SJF 2538

Open shrub to 0.7 m, flowers yellow. On ephemeral stream levee in Osmond Valley.

Atylosia reticulata (Dryander) Benth. SJF 2581, 2676, 2687; EAC 193; JHW s.n.; KFK 9292; MIB/BB 118, 177

Open shrub to 2 m with arching branches and yellow flowers. On rocky and sandy sites associated with Bungle Bungle massif surrounds and rocky slopes.

Canavalia papuana Merr. & Perry SJF 2537; NHS 84-339; KFK 9217; JHW s.n.

Climber to 5 m with pods to 15 cm. In riparian fringe of ephemeral streams.

Crotalaria cunninghamii R.Br. SJF 2666, KFK 9239

Shrub to 4 m, leaves grey-green, flowers olive-green. On sandy banks under riparian forest on Red Rock Ck; in red soil over scree at base of Bungle Bungle massif.

Crotalaria linifolia L.f. SJF 1987

Erect few-stemmed semi-shrub to 0.5 m with yellow flowers. On stream levee at Winnama Gorge.

Crotalaria novae-hollandiae DC. SJF 2011

Sub-shrub to 0.3 m with yellow flowers. Amongst levee woodland of Osmond Valley and Turkey Ck. catchment.

Crotalaria verrucosa L. EAC 323

Shrub to 0.3 m with blue flowers. Amongst degraded levee woodland of Osmond Valley.

Desmodium filiforme Zoll. & Moritzi MIB/BB 180; 180b; 187

Sprawling herb to 0.5 m with articulated pods. In Piccaninny Gorge.

Erythrina vespertilio Benth. NHS 84-387

Rare tree to 6 m. Only noted on Blackfellows Ck on Texas Downs Stn.

Indigofera colutea (Burm.f.) Merr. SJF 2022

Trailing herb with scarlet flowers. On rocky outcrop at Wulwuldji.

Indigofera monophylla DC. MIB/BB 92

Semi-shrub to 0.7 m, leaves ovate-oblong. In Piccaninny Gorge.

- Jacksonia odontoclada* F.Muell. ex Benth. DBR s.n.; MIB/BB 167
Cupressus-like upright woody shrub. On south-west slopes of Bungle Bungle massif and in Piccaninny Gorge. First record for W.A.
- Jacksonia thesioides* (Cunn.) Benth. SJF 2648; MIB/BB 141
Shrub to 2 m with silver-grey leaves and yellow flowers. Abundant on streamlines of Bungle Bungle massif and surrounds.
- Mirbelia viminalis* (Cunn.) C.Gardner JHW s.n.; SJF 2601
Intricately branched, almost divaricate shrub to 0.7 m with yellow flowers. On slopes of Bungle Bungle massif and Winnama Gorge.
- Plagiocarpus axillaris* Benth. EAC 212
Low shrub. On *Eucalyptus collina* dominated rocky plateau above Winnama Gorge.
- Psoralea badocana* (Blanco) Blanco SJF 2686; KFK 9268
Spreading shrub to 1 m with white-grey felted leaves, flowers pale magenta. Amongst riparian forest along Red Rock Ck.
- Psoralea martinii* F.Muell. KFK 9268
Erect shrub to 1 m, flowers mauve. In rocky scree under *Eucalyptus brevifolia*.
- Rhynchosia rhomboidea* F.Muell. ex Benth. SJF 2518; NHS 84-341; JHW s.n.
Prostrate twiner, leaves viscid, flowers white, fruits viscid. On lowlying plains adjacent to semi-permanent streams of Osmond Valley.
- Sesbania cannabina* (Retz.) Poiret SJF 1993; MN s.n.; MIB/BB 415
Slender shrub to 2 m with yellow flowers flecked red. In levee woodland at Winnama Gorge, occasional in Piccaninny Gorge and common on creek banks at edge of range.
- Sesbania formosa* (F.Muell.) N.Burb. (SR)
Tree to 10 m, bark corky, flowers white. In riparian forest along semi-permanent streams of Osmond Valley and Turkey Ck catchment.
- Templetonia hookeri* (F.Muell.) Benth. SJF 2586
Shrub to 3 m with weeping foliage and yellow flowers. On sandy bank of ephemeral creek draining gorge of Bungle Bungle massif.
- Tephrosia remotiflora* F.Muell. ex Benth. SJF 2020
Slender, spreading sub-shrub with magenta-pink flowers. Occasional on rocky outcrop at Wulwuldji.
- Tephrosia rosea* F.Muell. ex Benth. SJF 1986, 2609
Slender erect weakly branched shrub to 0.7 m, leaves silky silvery-grey, flowers magenta. On stream levees.
- Tephrosia uniovulata* F.Muell. MIB/BB 275
Shrub to 1 m, leaves ovate, velutinous, flowers pink. In Piccaninny Gorge.
- Tephrosia virens* Pedley SJF 2013, 2611; MIB/BB 116, 417
Slender sparsely branched shrub to 1 m, flowers orange. On stream levees.
- Vigna lanceolata* Benth. var. *latifolia* C.T.White NHS 84-337, 84-349
Trailing herb with slender stems. Amongst riparian forest on Red Rock Ck.
- Zornia nervata* Mohl. MIB/BB 2, 25, 179
Spreading wiry herb with long tap-root and paired leaflets. In Piccaninny Gorge.

PASSIFLORACEAE

- * *Passiflora foetida* L. var. *hispida* (DC. ex Triana & Planchon)
Killip SJF 2023
Rampant sprawling streambank climber to 4 m, fruits tan. Common
in Osmond Valley.

PEDALIACEAE

- Josephinia* sp. nov. SJF 2028
Sub-shrub to 0.5 m, corolla mauve. Sprawling amongst rocks at
Winnama Gorge.

PITTOSPORACEAE

- Citriobatus spinescens* (F.Muell.) Druce JHW s.n.
Small, spreading rough-barked tree to 3.5 m. In shaded sandstone ravine
under *Melaleuca leucadendra*, *Ficus* spp. and other riparian forest trees
at Winnama Gorge.

POLYGALACEAE

- Comesperma* sp. nov. SJF 2579; KFK 9242, 9247
Spindly shrub to 1 m, leaves pale blue-green, flowers pale yellow. On
scree and boulder slopes of Bungle Bungle massif.
Polygala chinensis L. ASW 14717
Annual herb. In alluvial soil of creek bed in Piccaninny Gorge.

POLYGONACEAE

- Polygonum barbatum* L. KFK 9190
Creeping, stoloniferous sub-shrub, flowers white. In alluvial sand banks
and submerged in creek in Osmond Valley.

PORTULACACEAE

- Calandrinia* sp. MIB/BB 451
Sprawling succulent herb, flowers pink. Amongst spinifex in Piccaninny
Gorge.
Portulaca ? *intraterranea* J. Black JHW s.n.
Herb to 10 cm. On damp sandy ground below mouth of Winnama
Gorge.
Portulaca ? *pilosa* L. MIB/BB 178
Succulent herb to 0.1 m, spreading, flowers small, pinkish-yellow. In
Piccaninny Gorge.
Portulaca sp. MIB/BB 14
Succulent dwarf herb rooting at nodes, leaves cordate, flowers orange.
In sand on bank of creek in Piccaninny Gorge.

PROTEACEAE

- Grevillea agrifolia* Cunn. ex R.Br. SJF 2019
Spreading shrub to 4 m, flowers white. Along ephemeral watercourse
in Osmond Valley.
Grevillea miniata W.Fitzg. SJF 2558, 2580; KFK 9201; EAC 218; CD
667; NHS 84-313; MIB/BB 18
Spindly tree to 4 m with typically ascending branches, flowers orange.
Abundant on sandplain surrounding Bungle Bungle massif.

Grevillea psilantha McGillivray SJF 2643; KFK 9282; MN s.n.; MIB/BB 52

Much branched showy shrub to 1 m, buds green, flowers cream. On steep and occasionally precipitous walls of Piccaninny Gorge. Type locality.

Grevillea pyramidalis Cunn. ex R.Br. SJF 2657; NHS 84-353

Showy tree to 3 m, flowers cream. On red shaley outcrop adjacent to Ord R. at Blue Holes.

Grevillea refracta R.Br. SJF 2584, 26191; KFK 9272; EAC 190; JHW s.n.; MIB/BB 54, 244, 456

Slender tree to 6 m, bark deep brown, flowers yellow to red. On summit and surrounds of Bungle Bungle massif and Winnama Gorge.

Grevillea sp. aff. *wickhamii* Meissner SJF 2557, 2622; KFK 9273; NHS 84-298; EAC 187

Small tree to 8 m, branching typically horizontal, flowers red, perianth lobes black. Very common on summit and surrounds of Bungle Bungle massif.

Hakea arborescens R.Br. (SR)

Tree to 4 m, bark dark fissured; leaves linear-lanceolate young shoots bronzey. Common on interfluges and stream frontage woodlands.

Persoonia falcata R.Br. SJF 2578; KFK 9252; MIB/BB 474

Small tree to 4.5 m, bark brown almost papery, shedding in chunky flakes, new shoots maroon, flowers yellow. On sand plain surrounding Bungle Bungle massif.

Stenocarpus salignus R.Br. var. *concolor* F.Muell. ex Benth. MIB/BB 23
In sandstone gorge of Piccaninny Creek.

RHAMNACEAE

Ventilago viminalis Hook. NHS 84-328

Tree to 4 m, bark black fissured, leaves pendulous, narrow-lanceolate. On black soil plain near Bungle Bungle Outcamp.

Zizyphus oenoplia Mill. SJF 1992S

Shrub to 1 m, with spiny stipules to 1 cm. Under closed forest in sheltered tract of Winnama Gorge.

Zizyphus quadrilocularis F.Muell. SJF 1998; JHW s.n.; NHS 84-377

Small tree to 5 m with grey bark, shade branches with spiny stipules, mature fruit purplish. On rocky quartzite slope at Winnama Gorge.

RHIZOPHORACEAE

Carallia brachiata (Lour.) Merr. SJF 1984, 2531; KFK 9207; NHS 84-293

Tree to 15 m bark pale corky, juvenile leaves narrow, light green. Co-dominant in sheltered riparian closed forest on semi-permanent streams of Osmond Valley and Winnama Gorge.

RUBIACEAE

Canthium attenuatum R.Br. ex Benth. SJF 2547; KFK 9227; NHS 84-296

Tree to 6 m with grey-black, fissured bark, foliage light green, fruit green. On ephemeral stream on plain near Bungle Bungle Outcamp.

Gardenia pyriformis Cunn. ex Benth. SJF 2572; KFK 9255, 9296; EAC 216; JHW s.n.; MIB/BB 352

Tree to 4 m with bark dull mauve, mottled yellow and flaky. On scree and boulder slopes of Bungle Bungle massif and Winnama Gorge.

Nauclea orientalis (L.) L. SJF 2533; KFK 9206

Tree to 15 m, bark pale, corky. Co-dominant in sheltered riparian closed forest on semi-permanent stream near Wulwuldji.

- Oldenlandia crouchiana* (F.Muell.) F.Muell. MIB/BB 17, 463
Spreading herb to 0.1 m, leaves linear-lanceolate. In Piccaninny Gorge.
- Oldenlandia galioides* (F.Muell.) F.Muell. MIB/BB 149, 150, 202b, 413, 458, 488
Diffuse herb to 0.5 m, leaves linear. In Piccaninny Gorge.
- Oldenlandia mitrasacmoides* (F.Muell.) F.Muell. MIB/BB 166, 173
Delicate erect herb to 0.3 m, leaves linear. In Piccaninny Gorge.
- Pavetta brownii* Bremek. KFK 9210; SJF 2534A; MIB/BB 152
Small tree to 3 m, bark smooth, mature fruits shiny black. On sandstone scree slope adjacent to riparian closed forest in Osmond Valley and in Piccaninny Gorge.
- Timonius timon* (Sprengel) Merr. SJF 2005, 2026, 2521; KFK 9185; NHS 84-380
Tree to over 15 m, bark smooth grey, flowers white. Co-dominant in sheltered riparian closed forest on semi-permanent streams of Osmond Valley and Winnama Gorge.

RUTACEAE

- Boronia* ? *pauciflora* W.Fitzg. EAC 214; JHW s.n.
Low shrub to 0.5 m, flowers pale pink. On plateau dominated by *Eucalyptus collina* above Winnama Gorge.
- Euodia elleryana* F.Muell. KFK 9208; SJF 1991S
Tree to 20 m, bark buff-coloured, corky. In riparian forest beside running creek in Osmond Valley and in sheltered tracts of Winnama Gorge.

SANTALACEAE

- Santalum lanceolatum* R.Br. NHS 84-386; KFK 9259; JHW s.n.; MIB/BB 427
Slender tree to 3 m with pendulous branches, bark dark, foliage glaucous, flowers cream. On levee of creek in Osmond Valley, and in sandstone gorge.

SAPINDACEAE

- Atalaya hemiglauca* (F.Muell.) F.Muell. ex Benth. KFK 9262; NHS 84-382
Tree to 10 m with smooth grey bark. In savanna woodland of Osmond Valley.
- Distichostemon hispidulus* (Endl.) Baillon SJF 2624; EAC 191; JHW s.n.
Shrub to 1.5 m. In sandstone gullies of Bungle Bungle plateau and in quartzite declivities of Winnama Gorge.
- Dodonaea lanceolata* F.Muell. var. *lanceolata* SJF 2603; JHW s.n.
Shrub to 2 m. On scree and boulder slopes of Bungle Bungle massif and Winnama Gorge.
- Dodonaea polyzyga* F.Muell. SJF 2565, 2667
Shrub to 2 m with viscid leaves, stem and fruits. Bark on trunk reddish, decorticating in strips. Commonly associated with limestone outcrops.
- Dodonaea viscosa* Jacq. subsp. *mucronata* J.G.West SJF 2593; KFK 9241; CD 670; MIB/BB 383
Shrub to 2 m, fruits plum-coloured. Adjacent to ephemeral stream draining scree and boulder slopes of Bungle Bungle massif.

SAPOTACEAE

Planchonella arnhemica (F.Muell. ex Benth.) Royen CD 672; MIB/BB 22

Tree to 8 m, bark dark grey, very fissured and corky. In sandy soil at foot of sandstone cliff by spring in Bungle Bungle massif.

SCROPHULARIACEAE

Buchnera ramosissima R.Br. MIB/BB 238

Sub-shrub to 0.8 m, flowers mauve. In sand in Piccaninny Gorge.

Stemodia grossa Benth. NHS 84-342; KFK 9266

Low soft herb to 20 cm, flowers purple. In sand on edge of permanent spring south-west of Bungle Bungle Outcamp and on Tickalara Track.

Stemodia lythrifolia F.Muell. ex Benth. MIB 133, 134, 135, 223

Woolly aromatic sub-shrub to 0.2 m, flowers purple. In Piccaninny Gorge.

Stemodia viscosa Roxb. SJF 2590, 2625

Herb to 0.2 m with viscid leaves. In sheltered crevices on sandstone walls on and around Bungle Bungle massif.

Stemodia sp. KFK 9285/B; MIB/BB 115, 276; ASW 14715

Clumped semi-pendulous herb, flowers pale lavender, throat white. Growing in rock fissures and crevices of gorge wall in Piccaninny Ck. An undescribed species.

SIMARUBACEAE

Brucea javanica (L.) Merr. SJF 2600; KFK 9258; MIB/BB 3, 138

Single stemmed shrub to 3 m, stems cream, compound leaves confined to apex, mature fruits purple-black. Associated with streams in scree boulder slopes of Bungle Bungle massif.

SOLANACEAE

Nicotiana benthamiana Domin NHS 84-354; MIB/BB 24

Low herb. In limestone rock shelters at base of limestone cliffs on Red Rock Creek and on sandstone in Piccaninny Gorge.

Solanum aff. *dioicum* W.Fitzg. JHW s.n.

Low sparsely branched under shrub to 0.6 m. Amongst quartzite rocks on steep west facing declivities at Winnama Gorge.

Solanum echinatum R.Br. NHS 84-316, 84-340; EAC 228

Prickly low growing semi-shrub to 0.5 m. On rocky northern slope in Osmond Valley.

Solanum lucani F.Muell. SJF 2523; NHS 84-335; JHW s.n.

Prickly low sprawling semi-shrub to 0.2 m. On open scalds at Wulwuldji, in rocky declivities at Winnama Gorge and in Piccaninny Gorge.

Solanum quadriloculatum F.Muell. JHW s.n.

Low shrub. Among quartzite rocks above southern declivities of creek at Winnama Gorge.

STACKHOUSIACEAE

Stackhousia intermedia Bailey EAC 202

Herb to 0.3 m. Amongst spinifex on *Eucalyptus collina* dominated rocky plateau near Winnama Gorge.

STERCULIACEAE

Brachychiton diversifolius R.Br. SJF 2660; NHS 84-332

Tree to 6 m, bark rough grey-black, flowers green, streaked maroon. In riparian forest on Red Rock Ck.

Brachychiton viscidulus (W.Fitzg.) Guymer SJF 1985, 2528; KFK 9198; NHS 84-381

Deciduous tree to 5 m, bark rough, dark, flowers showy red-pink. On rocky slopes of Bungle Bungle massif.

STYLIDIACEAE

Stylidium muscicola F.Muell. MIB/BB 11

Flowers deep pink. In moss at side of semi-permanent pool in Piccaninny Gorge.

Stylidium schizanthum F.Muell. EAC 201; JHW s.n.; MIB/BB 486

Small pink ephemeral. Confined to watercourse bed on *Eucalyptus collina* dominated rocky plateau above Winnama Gorge.

TILIACEAE

Corchorus sidoides F.Muell. SJF 2610; MIB/BB 83, 86, 388

Slender sparsely branched shrub to 0.8 m with yellow flowers. Associated with streams in scree and boulder slopes of Bungle Bungle massif.

Grewia polygama Roxb. SJF 2021; NHS 84-348, 84-378

Open semi-shrub with arching branches to 0.3 m with tan, fleshy berries. On stream terrace at Wulwuldji.

Triumfetta appendiculata F.Muell. SJF 2585; KFK 9240; MIB/BB 79

Few stemmed spindly shrub to 1 m, branching from base, flowers yellow, forming dense stands. On terrace of stream draining scree and boulder slopes of Bungle Bungle massif.

Triumfetta glaucescens (R.Br.) Benth. SJF 2614

Few stemmed slender shrub with arching branches to 0.5 m. On terrace of stream draining scree and boulder slopes of Bungle Bungle massif.

Triumfetta micracantha F.Muell. MIB/BB 376

Shrub to 0.5 m, leaves elliptic to 5 cm. In Piccaninny Gorge.

Triumfetta plumigera F.Muell. SJF 2692; EAC 220; JHW s.n.; MIB/BB 82, 416, 418, 485

Strictly erect spindly semi-shrub to 1 m. On rocky slopes of Winnama Gorge and Osmond Range and in Piccaninny Gorge.

ULMACEAE

Celtis philippinensis Blanco SJF 1997; JHW s.n.; KFK 9231; NHS 84-319, 84-334, 84-356

Small spreading tree to 5 m, bark grey, shade leaves spiny, mature fruits tan. On rocky slopes and outcrops.

Trema aspera Blume SJF 2519; JHW s.n.

Small tree to 2 m with smooth brown bark and shiny black fruits. On lowlying plain adjacent to semi-permanent creek at Wulwuldji.

VERBENACEAE

Clerodendrum floribundum R.Br. SJF 2638; KFK 9294; MIB/BB 136, 475

Small tree to 3 m, bark pale. In riparian woodland in Piccaninny Gorge.

Clerodendrum tomentosum (Vent.) R.Br. SJF 2564, 2594, 2642; KFK 9293

Tree to 3 m with grey fissured bark, flowers white. On rocky slopes and outcrops.

Premna acuminata R.Br. SJF 2549; NHS 84-305, 84-347

Tree to 3 m with hard grey fissured bark. On rocky slopes and outcrops.

Vitex glabrata R.Br. NHS 84-304; KFK 9300; MIB/BB 140, 409; SJF 2660A

Tree to 5 m. Occasional in riparian woodland on ephemeral streams and fringing incised stream beds on Bungle Bungle massif.

VIOLACEAE

Hybanthus aurantiacus (F.Muell. ex Benth.) F.Muell. MIB/BB 193, 234
Shrub to 1 m, flowers orange. In Piccaninny Gorge.

ZYGOPHYLLACEAE

Tribulopsis sp. MIB/BB 186, 237, 467, 477
Sprawling herb, flowers yellow. In Piccaninny Gorge.