

blunt, indistinct. Petals 5, similar, pale pink, 1.5-3mm long. Stamens 10, the filaments free, 10-15mm long, pink fading to white. Anthers lacking. Fertile flowers with yellow petals, the calyx and petals otherwise similar to those of the sterile flowers. Stamens 10, the filaments yellow, free, extending to c. 5mm long, the anthers yellow-orange with a deep red to orange stalked cap at the tip, 0.5mm long.

Fruiting inflorescence almost spherical, falling entire at maturity, the pods strongly curved S-wise, minutely and obscurely hairy, 30-60mm long, c. 15mm wide, strongly flattened, containing 4-6 seeds. Seeds pear-shaped, c. 5mm long, 3mm wide, flattened, brown.

Distribution: Mo. Native to N.T., Indonesia and eastern Africa, occasionally naturalized around Brisbane.

Notes: In Queensland this species is not recorded from pastoral country. In Africa it is regarded as an indicator of overgrazing but pods are eaten by stock. Nodulates.

References: 3, 16, 55, 132, 287.

Dichrostachys spicata

Chinese lantern, prickly bush

Woody shrub or small tree to 4m tall. Young stems densely covered with minute hairs, the

short lateral stems terminating in sharp spines. Stipules 2-3mm long, the broad base clasping the petiole. Leaves bipinnate, with 1-2 pairs or 20-35mm long pinnae. Petiole c. 10mm long, rachis c. 10mm long, a cylindrical gland between the pairs of pinnae. Leaflets 4-7 pairs on each pinna, each leaflet 5-8mm long, 2-4mm wide, the margins more or less parallel and the ends rounded, minutely hairy along the margins, mucronate.

Inflorescence a pendulous axillary spike c. 40mm long, including the c. 20mm peduncle. Basal flowers rather sparse, sterile, calyx c. 0.5mm long, petals c. 1.5mm long, filaments of stamens pink, showy. Fertile flowers densely arranged at tip of spike with showy yellow filaments and anthers, the calyx and corolla similar to those of the sterile flowers.

Pod c. 40mm long, 7mm wide, sparsely hairy, curved or twisted, brown when ripe, containing 6-9 seeds. Seeds oval, c. 4.5mm long, 3mm wide, dark brown.

Distribution: Bk. Also N.T., W.A.

Notes: An endemic Australian species, not common in Queensland. In the Kimberleys (W.A.) cattle readily eat the dry pods and leaves. Nodulates.

References: 28, 43, 257; as *D. muelleri*, 132.

Dillwynia

Woody shrubs with narrow simple alternate upward-rolled leaves. Flowers yellow or orange, the standard about twice as wide as tall. Stamens 10, the filaments free. Pods plump, containing one or two strophiolate seeds. An endemic Australian genus.

Key to species

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| 1. Calyx abruptly narrowing at base; pod surrounded by persistent remains of petals; leaves sharp-pointed | <i>D. juniperina</i> |
| Calyx tapering towards the base; petals deciduous | 2 |
| 2. Flowers terminal or in upper leaf axils, solitary or in racemes | 3 |
| Flowers in pairs in leaf axils | 4 |
| 3. Leaves conspicuously spirally twisted | <i>D. retorta</i> |
| Leaves straight, rarely slightly twisted | <i>D. glaberrima</i> |
| 4. Stems with long thin hairs or almost hairless; leaves often spirally twisted | <i>D. floribunda</i> |
| Young stems densely covered with silky white hairs; leaves not spirally twisted | var. <i>floribunda</i> |
| | <i>D. sericea</i> |

Dillwynia floribunda var. *floribunda*

Showy parrot pea

Woody shrub to 1m tall. Young stems usually more or less covered with long, thin, loosely adpressed to spreading hairs. Stipules minute or absent. Petiole minute. Leaf blade 5-20mm long, 0.5-1mm wide, usually spirally twisted, smooth or sparsely covered with long hairs, the margins almost parallel.

Flowers borne in pairs in leaf axils, within the axils of 1-2mm bracts, each flower on a c. 2mm pedicel with a pair of bracteoles towards the base. Calyx 4-7mm long, hairless or hairy, the sepals joined for c. $\frac{3}{4}$ their length, the teeth triangular. Standard yellow, red towards the base, c. 6mm tall, 12mm wide, strongly lobed. Wings yellow, c. 9mm long from base of calyx, longer than the keel.

Pod 4-7mm long c. 4mm wide, plump, sparsely hairy, purple-black when ripe. Seeds c. 2mm long, 1.5mm wide, purple-brown.



Dillwynia floribunda var. *floribunda*, Coolum, 26°31'S, 153°05'E.

Distribution: Mo., W.B. Also N.S.W. A quite common shrub of southern coastal sandy soils.

Notes: Of no grazing significance. Nodulates.

References: 3, 17, 23, 36, 50, 97, 154, 194, 287, 298, 331.

Dillwynia glaberrima

Heathy parrot pea

Woody shrub to 2m tall or sometimes almost prostrate. Stems usually hairless. Stipules minute. Petiole minute. Leaf blade 5-20mm long, c. 0.5mm wide, the margins parallel, occasionally slightly twisted, usually hairless, the tip usually down-curved.

Inflorescence a raceme 5-30mm long borne terminally or in upper leaf axils, rarely reduced to one flower. Flowers 8-10mm long, borne singly within the axils of 1-2mm bracts, each on a c. 2mm pedicel with a pair of 1-2mm bracteoles towards the base. Calyx 4-6mm long, usually almost hairless, the sepals joined for c. $\frac{3}{4}$ their length, the teeth triangular. Standard yellow, red towards the base, strongly lobed, c. 3mm tall, 10mm wide. Wings yellow, c. 7mm long from base of calyx, exceeding the keel.

Pod 4-6mm long, 3mm wide, plump, sparsely hairy, purple-black when ripe.

Distribution: Mo., W.B. Also N.S.W., Vic., S.A., Tas. Occurs on sandy soils along the southern coast.

Notes: Of no grazing significance. Nodulates.

References: 23, 26, 154, 194, 287, 298, 337; as *D. ericifolia*, in part, 3, 17.

Dillwynia juniperina

Prickly parrot pea

Woody shrub to 2m in height. Young stems covered with short adpressed hairs. Stipules lacking. Petiole minute. Leaf blade rigid, 8-12mm long, less than 1mm wide, triangular in cross-section with a groove along the upper surface, the margins parallel, sharp-pointed, usually hairless.

Inflorescence a short raceme borne terminally or in upper leaf axils, or flowers solitary in upper leaf axils. Flowers borne singly within the axils of c. 1mm bracts, each on a c. 2mm pedicel with a pair of c. 1mm bracteoles below the calyx. Calyx 3-5mm long, covered with adpressed silky hairs, the upper sepals almost totally united in a broad lip, the lower sepals joined for c. $\frac{1}{2}$ their length. the teeth broadly triangular. Standard yellow-orange, red or purple at the base, c. 4mm tall, 8mm wide, strongly lobed. Wings yellow-orange, c. 7mm long from base of calyx, exceeding the keel.

Pod 5-6mm long, c. 4mm wide, plump, hairy, surrounded by the persistent remains of the petals, purple-black when ripe.

Distribution: D.D., Mo., W.B. Also N.S.W., Vic. An inland or subcoastal species, usually on sandy or gravelly infertile soils.

Notes: Of no grazing significance. Nodulates.

References: 3, 17, 26, 194, 287, 298, 331.

Dillwynia retorta

Woody shrub up to c. 2m tall or sometimes prostrate. Young stems covered with hairs. Stipules minute or absent. Petiole minute. Leaf blade 2-15mm long, c. 0.5mm wide, the margins usually parallel, hairless or partly covered with stiff hairs, spirally twisted, usually sharply pointed.

Flowers occurring singly or in racemes up to 35mm long, the peduncle 0-20mm long. Flowers borne in axils of 1-2mm bracts, each on a c. 2mm pedicel. Bracteoles 1-3mm long, very deciduous. Calyx 3-6mm long, hairless or bearing stiff hairs, the two upper sepals joined for most of their length in a broad lip, the sepals otherwise joined for c. $\frac{2}{3}$ their length. Standard yellow, red at the base, c. 4mm tall, 9mm wide, strongly lobed. Wings yellow, c. 8mm long from base of calyx, exceeding the red keel.

Pod 4-7mm long, c. 4mm wide, plump, sparsely hairy, purple-black when ripe.

Key to varieties

Leaves hairless	var. <i>retorta</i>
Leaves more or less covered with stiff hairs, at least at tip	var. <i>phylicoides</i>



Dillwynia retorta var. *retorta*, Noosa, 26°25'S, 153°05'E.

Dipogon

Twining perennial with pinnate leaves with three leaflets. Stipels present. Flowers purple. Stamens 10, 9 filaments joined for most of their length, 1 free. Style bearded towards the tip, not laterally flattened. Pods plump, containing c. 6 seeds.

Dipogon lignosus

Purple dolichos

Twining perennial with slender almost hairless stems to 3m long. Stipules c. 4mm long, tapering

Distribution: D.D., Lei., Mo., W.B. Also N.S.W., Vic. Occurs on sandy soils in southern coastal and more inland districts.

Notes: Of no grazing significance. Sensitive to fire. Nodulates.

References: 23, 26, 97, 154, 194, 259, 287, 298, 333; as *D. ericifolia*, 17, 50, 324.

Dillwynia sericea

Showy parrot pea

Woody shrub to 1m tall. Young stems densely covered with adpressed or spreading silky white hairs. Stipules lacking. Petiole minute. Leaf blade 5-20mm long, c. 0.5mm wide, almost cylindrical and with a groove along the upper side, hairless or covered with long hairs, the margins parallel, the tip straight or incurved, usually shortly pointed.

Flowers 8-12mm long, borne in pairs in leaf axils, each on a 1-2mm pedicel which bears a pair of 0.5-1mm deciduous bracteoles towards the tip. Calyx 4-7mm long, hairless or with spreading or adpressed silky hairs, the two upper sepals joined almost totally in a lip, the sepals otherwise joined for c. $\frac{3}{4}$ their length. Standard yellow, orange at the base, c. 4mm tall, 9mm wide, strongly lobed. Wings yellow, c. 8mm long from base of calyx, exceeding the red keel.

Pod 3-4mm long, c. 3mm wide, plump, sparsely hairy, purple-black when ripe.

Distribution: D.D. Also N.S.W., Vic., S.A., Tas. A species of gravelly or stony soils.

Notes: Sparingly browsed by stock.

References: 26, 111, 287, 298.

to a point, spreading, persistent. Petioles 20-80mm long, rachis 10-20mm long, both sparsely hairy. Stipels c. 2mm long. Leaflets 25-100mm long, 15-70mm wide, broadest towards the very broadly rounded base, narrowing abruptly and