

SPOROBOLUS ELONGATUS

Slender Rat's-tail Grass

A tufted perennial, up to 1 m tall. Culms unbranched, erect, smooth and hairless. Nodes 3-4, hairless. Leaves mostly basal. Leaf sheaths round, striate, smooth and hairless, shorter than the internodes at maturity. Ligule reduced to a ring of short hairs with longer, silky hairs at each margin. Leaf blades narrow, flat or rolled, striate, pointed, flexuous, 3 mm wide at the base and up to 50 cm long, hairless, except for a few silky hairs towards the base.

Inflorescence a spike-like panicle with its branches strongly contracted and closely adpressed to the axis to give a rat's tail effect, brownish-green in colour, the secondary branches also contracted and interrupted along the axis, particularly in the lower part, the almost sessile and numerous spikelets densely clustered. Spikelets (S) all alike, many per panicle branch, 1.5-2 mm long, breaking up at maturity with the small, round, shiny seeds falling separately from the more or less persistent glumes, lemma and palea. Floret 1, bisexual. Glumes (G_1 , G_2) delicate and translucent $\frac{1}{2}$ to $\frac{1}{2}$ the length of the spikelet, unequal, without nerves, truncate; the lower glume (G_1) less than 1 mm in length, lanceolate, blunt; the upper (G_2) 1 mm in length, broad, with a ragged or uneven tip. Lemma (L) 2 mm long, 1-nerved, pointed, membranous, but thicker than the glumes. Palea (P) similar, slightly shorter than the lemma (1.5 mm), 2-nerved. Anthers 2, 0.5 mm long.

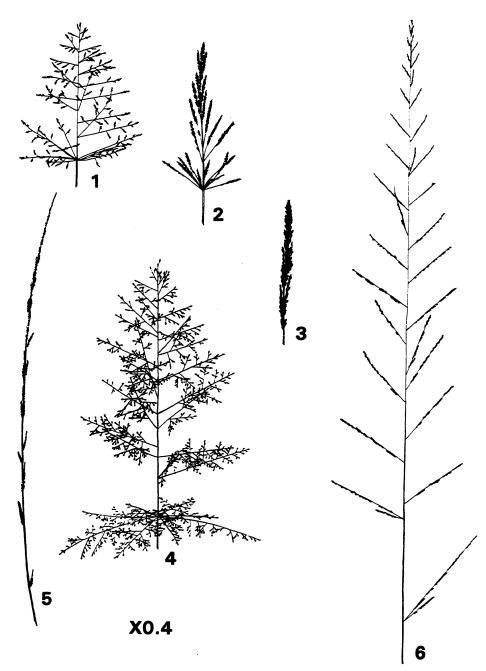
This is a widespread grass in eastern Queensland, particularly the open, grassy forest, where it grows over a wide spectrum of soils. It is palatable to stock, particularly when young, and on poor soils is a useful component of the animals' diet.

REFERENCES

Bailey (1902), 1 pp. 1879–82; Blake (1941*a*), 2 pp. 3–12; Gardner (1952), 3 pp. 159–63; Clayton (1965); 4 Burbidge and Gray (1970), 5 p. 52; Lazarides (1970), 6 pp. 230–35; Willis (1970), 7 pp. 165–67; Beadle *et al.* (1972), 8 p. 645; De Nardi (1973); 9 Black (1978), 10 pp. 208–10; Jessop (1981), 11 pp. 467–69; Simon (1982). 12

KEY TO SPECIES

1.	Inflorescence a more or less spike-like panicle. Inflorescence an open panicle.	2 9
2.	Inflorescence less than 12 cm long. Plants rhizomatous or stoloniferous. Lower glume more than ½ spikelet length. Inflorescence usually much exceeding 12 cm. Plants tufted. Lower glume up to ⅓ spikelet length.	3
3.	Coastal sand-dune and saline swamp grass. Rhizomatous (sand couch) Western grass. Often stoloniferous, but not rhizomatous (swamp rat's-tail grass)	S. virginicus(3)* 1,2,3,7,8,10,11 S. mitchellii(3)1,2,3,6,7,10,11



Inflorescences of Sporobolus spp. Numbers correspond to those in parentheses following the species names in the key.

4.	Spikelets usually not or barely overlapped along primary panicle branches, which are loosely adpressed to rhachis; upper glume blunt, less than ½ spikelet length. Spikelets, strongly overlapping along primary panicle branches, which are closely adpressed to rhachis; upper glume acute, ½ spikelet length or more.	S. jaquemontii(5) ⁴
5.	Robust plants with broad, somewhat flattened tiller bases and 3 stamens per spikelet. Inflorescence dense; if interrupted, then only at base. More slender plants, with narrow, rounded tiller bases and 2 stamens per spikelet. Inflorescence interrupted in lower half; spikelets in dense clusters on adpressed primary branches.	6 8
6.	Spikelets 2.1-2.5 mm long (Parramatta or rat's-tail grass) Spikelets 1.7-2.0 mm long.	S. africanus(5)** 4,5,7,8,10 7
7.	Grain at maturity almost as long as palea. Grain at maturity ½ to ¾ as long as palea.	S. indicus(5)** ^{1,2,4} S. fertilis(5)** ⁴
8.	Spikelets 1.25-1.75 mm long, densely crowded on panicle branches. Spikelets 1.65-2.30 mm long, loosely arranged on panicle branches (slender rat's-tail grass)	S. creber(5) ^{9,11} S. elongatus(5) ^{2,5,8,10,11}
9.	Lower branches of panicle not whorled, panicle narrowly pyramidal. Lower branches of panicle distinctly whorled.	10 11
10.	Branches of inflorescence bearing spikelets to base; stamens 2 (tussocky sporobolus) Branches of inflorescence naked at base for 1-2 cm; stamens 3.	S. diander(6) ¹ S. laxus(6) ¹²
11.	Spikelet separated in an open, feathery panicle. Spikelets more or less clustered on panicle branches.	12 13
12.	Primary branches of inflorescence mostly in whorls (Australian dropseed) Primary branches of inflorescence whorled only at basal node (hairy or Yakka grass)	S. australasicus(4) ^{2,3,6,10,11} S. caroli(4) ^{2,3,6,7,10,11}
13.	Each of primary branches consisting of a single dense, false spike for ½ to ¾ of its length. Western grass (Katoora	S. antimonladus(2)\122361\011

on secondary branches.

14. Culms and main axis of panicle rough.
Culms and main axis of panicle smooth.

or ray grass)
Primary branches not spike-like, small clusters of spikelets

S. actinocladus(2)1,2,36,10,11

S. scabridus(1)^{2,11}
S. contiguus(1)^{2,11}

^{*} Numbers in parentheses refer to inflorescence illustrations opposite.

^{**} S. africanus, S. indicus and S. fertilis are difficult to distinguish (Clayton, 1965), but are relatively uncommon in southern Queensland.