

***Setaria pumila* (Poir.)Roem.& Schult. (Poaceae)**

Spikelet

One sterile floret and one fertile floret, disarticulation below the glumes, falling as a unit from the plant

General shape: elliptic or ovate to round; dorsal-ventrally compressed, dorsal side arched and ventral side flat (D-shaped in profile view)

Normal size: 3.0 – 3.5 L x 1.5 – 2.2 W x 1.2 – 1.6 D mm

Color: pale green to straw-colored

Texture: glumes and sterile floret membranous to papery

Distinguishing features: lower glume (1) 1/3 – 2/3 the length of the spikelet, 3-veined, broadly triangular, the outer corners wrapping around the base of the upper glume; upper glume ovate, 1/2 - 2/3 the length of spikelet, 5-veined; sterile floret equal to length of spikelet, palea (2) almost equal in length to sterile lemma, hyaline

Fertile floret

General shape: elliptic in outline, with a pointed apex, dorsal-ventrally flatten-convex

Size: 1.5 – 3.5 L x 1.5-2.0 W x 1.2-1.5 D mm

Color: greyish-yellow to dark brown

Texture: lemma(3) and palea (4) hardened, lemma transversely wrinkled

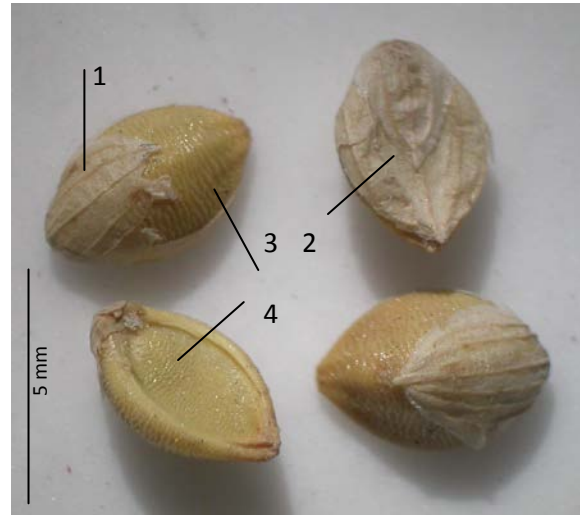
Distinguishing features: lemma margin in-rolled over palea margin; awnless.

Caryopsis

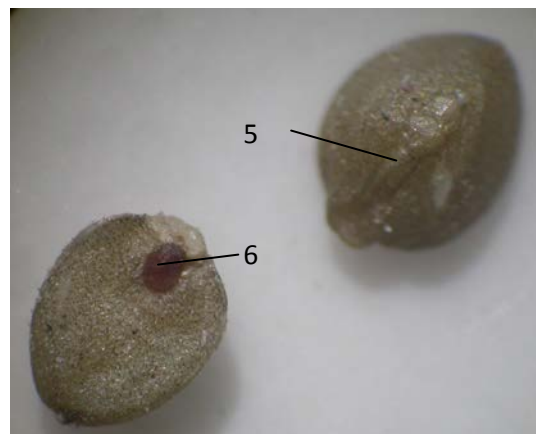
General shape: elliptic with a rounded apex.

Size: 1.4 – 2.0 mm L x 0.9 – 1.1 mm W x 1.1-1.4 D mm

Color: grayish white



Spikelets and fertile florets of *Setaria pumila* under magnification



Caryopsis

<p>Texture: smooth and dull</p> <p>Embryo (5): about 3/4 the length of the caryopsis.</p> <p>Endosperm: solid</p> <p>Hilum (6): dark oval spot near base of ventral surface</p> <p>Description: Deborah Meyer California Department of Food & Agriculture</p>	
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