

x Triticosecale Wittm. ex A.Camus. (*Poaceae*)

Caryopsis

General shape: elongated, oval, cylindrical, longitudinally grooved ventrally

Size: 8.0-10.0 L x 2.8-4.0 W x 2.8-4.0 D mm

Color: straw, light brown, beige covered with a silvery film

Texture: smooth, sometimes wrinkled across, dull

Distinguishing features: the hump behind the embryo is visible, where the seed is the widest ; ventral groove is rounded (1) ; apex blunt with brush of short hairs (2)

Embryo (3): small, sunk, rounded at the scutellum and pointed at the tip, the root-shoot axis about 1/5 the length of the caryopsis

Endosperm: soft to semi-solid

Hilum: linear, nearly as long as caryopsis, located in ventral groove



Normal seeds of *xTriticosecale*

Note: the seeds show the mixed features of *Triticum aestivum* and *Secale cereale* in many aspects.



Triticum aestivum



Secale cereale