

Amaranthus spp. (Amaranthaceae)

General shape: Lens-shaped, lenticular or slightly elongated disc.

Normal size:

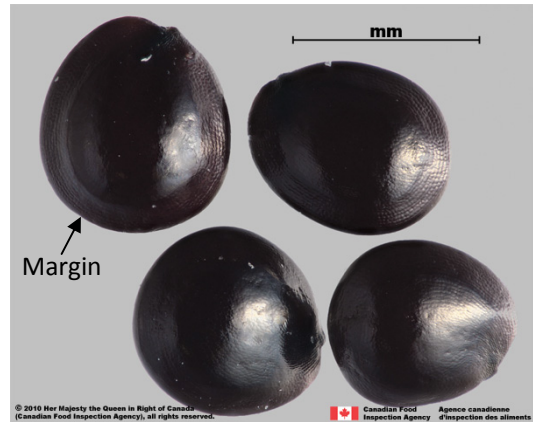
0.8-1.2 mm L x 0.8 -1.1 mm W x 0.3 -0.5 mm D

Color: Black to dark reddish brown testa

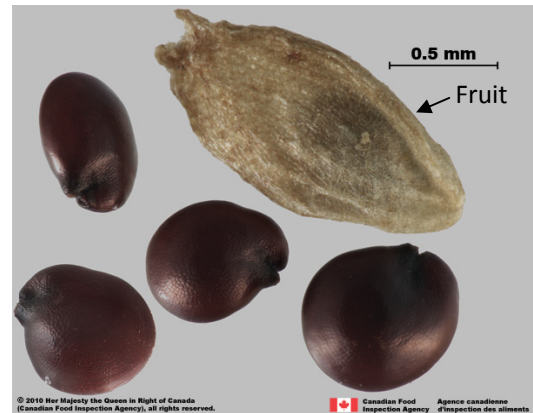
Texture: Shiny, smooth with minimal surface cellular structure evident.

Distinguishing features: Hilum on disc margin or basal end of elongated disc. Distinct marginal rim. Margins winged, wings minutely granular or striate. *Amaranthus* spp. are difficult to distinguish at the species level.

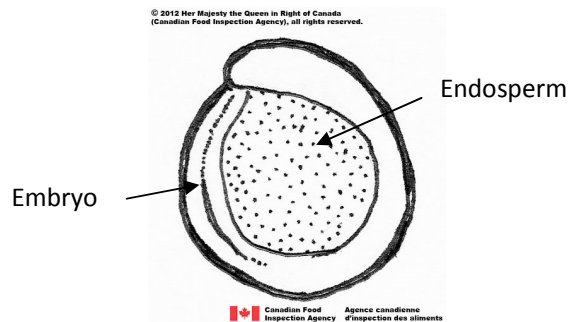
Embryo: Embryo lies around the entire margin of the seed and is detectable around the perimeter of the seed. The embryo is curved around firm, starchy white endosperm.



Amaranthus powelli seeds



Amaranthus rudis seeds and fruit



Cross-section of *Amaranthus blitoides* seed

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