Threshing wild wheat seed

*Triticum urartu* (A genome)
*Aegilops speltoides* (B genome)
*Aegilops tauschii* (D genome)
Aegilops tauschii

Hulled spikelets

Threshed seed

bottom of seed [note the crease]

top of seed [note the embryo]
Aegilops tauschii

Remove rachis segment
Aegilops tauschii

Split spikelet in two pieces
Aegilops tauschii

Spikelet split in two pieces

Remove glume

Glumes (hard outer covering)

Lemma and palea (paperlike inner covering)

Glume

Lemma

Palea
The dissected seed with look like this
- a rachis segment
- two glumes
- two [or maybe three] seeds covered by the paperlike lemma [top] and palea [underneath]
Aegilops tauschii

Removing lemma and palea separately

Removing lemma and palea together
**Aegilops speltoides**

thresh spikelets of this species just like those of *Aegilops tauschii*

### Hulled seed
- rachis [below spikelet]
- glumes

### Threshed seed
- bottom of seed [note the crease]
- seed with lemma/palea
- top of seed [note the embryo]
Triticum urartu

Hulled seed

Threshed seed
**Triticum urartu**

Split spikelet as for *Aegilops tauschii*; the rachis segment is below the spikelet in this species also.

Dissected spikelet

- glumes
- rachis [below spikelet]
- lemma
- palea