Relationship between grain yield, season and growth traits of durum wheat (*Triticum durum* Desf.) in the Tiaret region (western Algeria).

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**Introduction**

Durum wheat is mainly grown under rainfed conditions in the Mediterranean regions, where the precipitations varies between 300 to 800mm.
**Materials & Methods**
The objective of this study is to relate the wheat yields of the different genotypes with season and other plant traits. Field experiments were conducted over three seasons (2010-2013) using twenty durum wheat genotypes in the Tiaret region (Western Algeria).

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**yield components**
- Tillers number
- Tillers length

**yield**
- Spikes number
- TGW
- Grain yield

**Result and discussion**
The observations concern the effects of season constraints on wheat yield and traits associated with it. Water deficit affected wheat growth and yield throughout three seasons of experimental period. Results confirm that correlations between yield and associated characters exist and that various genotypes respond differently with the season.