

How to use the Small Grain Advisories to Determine Variety Growth Stage

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The Small Grain Advisories provide estimates of crop development (growth stage) and water use for early and late varieties of barley and durum. The “check” varieties that these various maturity groups were modeled after are: 1) Early barley = Barcott, 2) Late barley = Gustoe, 3) Early durum = WestBred 881, and 4) Late durum = Duraking. To determine the crop developmental stage of a particular barley or durum variety, use the tables below to compare the difference in days to heading and maturity of the variety of interest to the “check” variety. Varietal developmental differences are not significant until about the 1-node stage.

Heading and maturity of barley varieties compared to “Early barley” (Barcott) and “Late barley” (Gustoe).

Variety	Breeder ¹	Days difference from “Early barley” (Barcott)		Days difference from “Late barley” (Gustoe)	
		Heading	Maturity ²	Heading	Maturity ²
Barcott	WPB	0	0	-17	-15
Mucho	APB	5	8	-12	-7
Baretta	APB	12	15	-5	0
Nebula	WPB	12	15	-5	0
Commander	WWW	15	16	-2	1
Gustoe	WPB	17	15	0	0
Max	WWW	19	21	2	6

¹ Breeder: APB = Arizona Plant Breeders, WPB = Western Plant Breeders, WWW = World Wide Wheats.

² Maturity: Physiological maturity, which is 1-2 weeks before harvest ripe stage.

Heading and maturity of durum varieties compared to “Early durum” (WPB 881) and “Late durum” (Duraking).

Variety	Breeder ¹	Days difference from “Early durum” (WPB 881)		Days difference from “Late durum” (Duraking)	
		Heading	Maturity ²	Heading	Maturity ²
Tacna	WPB	-4	-1	-8	-4
Kronos	APB	-1	0	-5	-3
Sky	APB	0	---	-4	---
WPB 881	WPB	0	0	-4	-3
Kofa	WPB	1	3	-3	0
Mohawk	WPB	1	2	-3	-1
Ocotillo	APB	1	1	-3	-2
Matt	APB	2	---	-2	---
Bravadur	WWW	3	2	-1	-1
Deluxe	WWW	4	2	0	-1
Duraking	WWW	4	3	0	0
Platinum	WWW	4	2	0	-1
Crown	WWW	5	5	1	2
Ria	WWW	5	2	1	-1
Orita	WPB	7	5	3	2
Topper	WWW	7	6	3	3

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