



# SUNFLOWER

## CROPLAN

	High Oleic <sup>1</sup>	MUSun <sup>1</sup>	Debulling <sup>1</sup>	Birdseed <sup>1</sup>	Days to Maturity	Downy Mildew Resistance <sup>2</sup>	Phomopsis	Sclerotinia	Height	Road Strength	Stalk Quality	Drought Tolerance	Oil Content	Oil Content	Common Planting Seed Size	Response-to-population (RT <sub>P</sub> ) <sup>3</sup>	Response-to-nitrogen (RT <sub>N</sub> ) <sup>3</sup>		
<b>EXPRESSUN<sup>®</sup> SUNFLOWER</b>																			
CP432E	●	●	●	●	87	PI 8	2	3	Short	3	2	1	2	4	NA	2, 3, 4	H	M	
CP450E	●	●	●	●	94	PI 8	2	2	Medium	1	1	2	1	4	2	2, 3, 4	M	L	
CP455E	●	●	●	●	93	PI 6	3	2	Medium	3	2	1	2	3	1	2, 3, 4	L	M	
CP4909E	●	●	●	●	91	-	3	2	Short	2	2	1	3	3	NA	2, P3, 3, 4	M	H	
CP4157E	●	●	●	●	95	PI 6	1	2	Med-Tall	4	2	2	4	2	1	3, 4	L	M	
NEW CP4255E	●	●	●	●	TBD	93	PI 2,6,8	1	2	Med-Tall	2	2	2	2	3	1	2, 3, 4	L	H
NEW CP4475E	●	●	●	●	TBD	92	PI 6,8	1	2	Tall	2	2	1	2	3	1	2, 3, 4	NA	NA
<b>CLEARFIELD<sup>®</sup> SUNFLOWER</b>																			
CP5220CLSS	●	●	●	●	TBD	79	PI 6	1	NA	Super Short	1	1	1	4	3	3, 4	H	NA	
CP5045CL	●	●	●	●	TBD	95	PI 6,17	3	2	Med-Short	1	1	3	1	2	NA	2, 3, 4	M	H
CP7919CL	●	●	●	●	97	PI 6	1	3	Med	2	2	3	2	2	2	2, 3, 4	L	H	
NEW CP5249	●	●	●	●	TBD	86	PI 15	NA	Short	1	2	1	1	2	1	NA	NA	NA	
NEW CP5242	●	●	●	●	TBD	86	PI 15	NA	Short	2	2	1	2	1	1	NA	NA	NA	
<b>CONVENTIONAL SUNFLOWER</b>																			
CP3845	●	●	●	●	92	-	4	5	Med-Short	3	2	2	2	1	1	3, 4	NA	NA	

### KEY Scale

- 1 = Excellent
- 2 = Strong
- 3 = Acceptable
- 4 = Manage
- 5 = Not Recommended

Product descriptions and ratings are generated from Answer Plot<sup>®</sup> trials and/or from the genetics supplier and may change as additional data is gathered.

### 1 Market Options

Gain not guaranteed to be sold in your area. Due to factors outside our control, WinField United does not guarantee oleic levels. TBD = still in testing.

### 2 Downy Mildew Resistance

**PI 2 gene** = This gene is resistant to some of the early races of downy mildew, but it is susceptible to most of the common races found today.  
**PI 6 gene** = This gene is resistant to races prevalent before 2009; it is susceptible to races 314, 704, 714, 734 and 774.

**PI 8 gene** = This gene can get infected, but then stops downy mildew from advancing or having an economic impact on all common races.  
**PI 15 gene** = This gene is exclusive to CROPLAN<sup>®</sup> hybrids and is resistant to all known races of downy mildew.

**PI P gene** = Proprietary gene developed to control all known races of downy mildew.  
**PI 17 gene** = Advanced control, resistant to all known races of downy mildew.

### 3 RTM/RTF Ratings

- L = Low Response
- M = Moderate Response
- H = High Response