



Grow Smart with BASF

Beyond[®] Herbicide in Clearfield[®] and Clearfield Plus Sunflower

Benefits of Beyond Herbicide

- Broad spectrum grass and broadleaf weed control
- Convenient liquid formulation



PRE residual herbicide No POST herbicide



PRE residual herbicide followed by POST application of Beyond herbicide (4 oz/A) + MSO (0.25% v/v) + AMS (17 lbs/100 gal)

BASF Clearfield Plus Sunflower Field Trial (2010). NDSU, Fargo, ND.





Herbicide Tolerant Sunflower System Comparisons

Characteristics	Beyond [®] Herbicide	Express [®] Herbicide
Post Broadleaf Weed Control	Yes	Yes
Post Grass Control*	Yes	No
Mode of Action	Group 2 (ALS-inhibitor)	Group 2 (ALS-inhibitor)
Formulation	Liquid (1 lb ai/gallon)	Dry (50% SG)

*Grass control may be reduced in tank mixtures containing of ALS and ACCase herbicide mode-of-actions

2014 National Sunflower Association Variety Trials



Source: www.sunflowernsa.com/growers/yield-and-survey



To learn more about crop protection products from BASF, visit www.agproducts.basf.us

Best Use Recommendations

Use Rate:

- Clearfield[®] Sunflower 4 fl oz/A
- Clearfield Plus Sunflower 4-6* fl oz/A

Timing:

2 to 8-leaf Clearfifeld and Clearfield Plus Sunflower

Adjuvants:

- Clearfield Sunflower Add non-ionic surfactant (NIS) at 0.25% v/v
- Clearfield Plus Sunflower Add crop oil concentrate (COC) or methylated seed oil (MSO) 1-2% v/v
- Add AMS at 12 to 15 lbs/100 gallons of spray solution

*Rotational crop restrictions are determined based on geographic region, annual rainfall, soil pH and tillage practices. See Beyond herbicide product label to find rotational crop restrictions for a specific region and cropping system. Do not apply more than 4 fl oz/A of Beyond herbicide to Clearfield Plus Sunflower in California.

Weed Control Comparisons

Weed Species	Beyond Herbicide	Express Herbicide
Barnyardgrass	Excellent	None
Downy Brome	Good-Excellent	None
Green foxtail	Excellent	None
Yellow foxtail	Good-Excellent	None
Volunteer cereals	Good-Excellent	None
Wild oat	Excellent ¹	None
Prickly lettuce	Good-Excellent	Good ¹
Common cocklebur	Good-Excellent	Fair
Kochia	Excellent ¹	Excellent ¹
Lanceleaf sage*	Excellent	None
Marshelder	Good-Excellent	Excellent
Wild mustard	Excellent	Excellent
Eastern/black nightshade	Excellent	Poor-Fair
Hairy nightshade	Excellent	—
Redroot pigweed	Excellent	Fair-Excellent
Wild sunflower	Excellent	Fair
Russian thistle	Good-Excellent ¹	Excellent ¹

¹Except where resistant populations have developed.

*Lanceleaf sage is not on the approved label for Beyond herbicide.

Ratings obtained from the 2017 North Dakota University Weed Control Guide.





Always read and follow label directions

Grow Smart is a trademark and Beyond and Clearfield are registered trademarks of BASF Corporation. Express and ExpressSun are registered trademarks of E. I. du Pont de Nemours and Company. ©2017 BASF Corporation. All Rights Reserved. APN# 1711001 Beyond-Clearfield-Sunflower-2017

