



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.



Technical Information Bulletin

■ BASF
We create chemistry

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

Clearfield Production System			2729	
Expres	esSun® 26	313		
2550	2600	2650	2700	2750

Yield in lbs/Acre

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



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



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

Adiuvants:

- 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

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.





Always read and follow label directions

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^{*}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.

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

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