



Clearfield[®]

Production System

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

Benefits of Beyond Herbicide

- Broad spectrum grass and broadleaf weed control with foliar and residual activity
- No risk of herbicide tank-mix antagonism
- Simple use and cost effective



Sulfentrazone PRE (4.5 oz/A)



**Beyond Herbicide (4 oz/A)
+ NIS (0.25% v/v)
+ AMS (17 lb/100 gal)**

BASF Field Trial (2010). NDSU, Fargo, ND.



150 years

BASF

We create chemistry

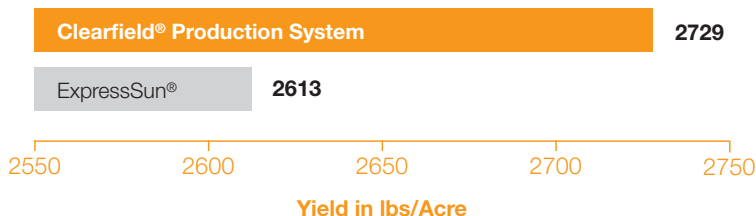
Technical Information Bulletin

Herbicide Tolerant Sunflower System Comparisons

Characteristics	Beyond® Herbicide	Express® Herbicide
Residual Weed Control	Yes	No
Post Broadleaf Weed Control	Yes	Yes
Post Grass Control	Yes	No (requires tank mix)
Post Grass Herbicide Required	No	Yes
Tank-mix Antagonism Potential*	No	Yes
Mode of Action	Group 2 (ALS-inhibitor)	Group 2 (ALS-inhibitor)
Formulation	Liquid (1 lb ai/gallon)	50% WDG

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

2014 NSA Variety Trials



Best Use Recommendations

- Apply Beyond herbicide at 4 fl oz/A to 2- to 8-leaf Clearfield® herbicide and Clearfield Plus® Sunflower
- Add non-ionic surfactant (NIS) at 0.25% v/v (Clearfield Sunflower)
- Add crop oil concentrate (COC) or methylated seed oil (MSO) 1–2% v/v (Clearfield Plus Sunflower ONLY)
- Add AMS at 12 to 15 lbs/100 gallons of spray solution

Weed Control Comparisons

Weed Species	Beyond Herbicide	Express Herbicide
Barnyardgrass	Excellent	None
Field sandbur	Fair-Good	None
Green foxtail	Excellent	None
Yellow foxtail	Good-Excellent	None
Volunteer cereals	Good-Excellent	None
Wild oat	Excellent ¹	None
Wild proso millet	Good-Excellent	None
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	Fair-Good
Hairy nightshade	Excellent	
Redroot pigweed	Excellent	Fair-Good
Wild sunflower	Excellent	Excellent
Russian thistle	Good-Excellent	Excellent

¹Except where resistant populations have developed. *Lanceleaf sage is not on the approved label for Beyond herbicide. Rating obtained from the 2015 North Dakota Weed Control Guide.



Always read and follow label directions

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