

NDSU Postemergence Grass herbicides for Wheat and Barley Quick Reference guide (March 2008)

\*Not all labeled herbicides are included in this table. See labels and the 2008 North Dakota Weed Control guide for information on additional herbicides.

	Axial/Axial XL	Discover/Discover NG	Everest	Puma	Rimfire
Crop	Winter and HRS wheat, barley	Wheat	Wheat	Wheat and barley	Wheat
Crop stage	2-leaf to boot	2-leaf until prior to boot	7 days PRE to prior to jointing	Wheat: emergence to 60 days before harvest. Barley: 1-4 leaf	1-leaf to flag leaf emergence
Grass weed stage	1-6 leaf + 3 tillers	1-5 leaf foxtail and 1-6 leaf wild oat	up to 4 leaves	1 leaf to 2 tiller	1 leaf to 2 tiller
Mode of Action	“ACCCase Inhibitor”	“ACCCase Inhibitor”	ALS inhibitor	“ACCCase Inhibitor”	ALS inhibitor
Application rate/A	8.2/16.4 fl oz	3.2-4/12.8-16 fl oz	0.3-0.6 oz	0.33-0.66 pt	1.75-2.25 oz
Approximate cost based on 2007 retail price survey (\$/A)	12.75	13.50 - 20.30	9.60 -14.40	7.65 -15.50	9.65 -12.40
Required adjuvant tank mixture	Adigor (co-pack for Axial) 9.6 fl oz/A	DSV (co-pack for Discover); MSO 0.25%	NIS 0.25% or basic pH blend 1% if no EC or ester broadleaf herbicides		MSO 1.5 pt/A, or NIS 0.5% +28% UAN 1-2 qt/A, or basic pH blend 1%
Residual for weed control	No	No	Yes	No	Yes
Minimum ground spray volume (GPA)	5 - 10	5-10	5 - 10	5-10	10

Minimum aerial spray volume (GPA)	5	3-5	3 - 5		5	5
Rainfast (hours)	0.5	0.5	1		1	4
Preharvest interval (days)	60	60	60		wheat - 60 barley - 57	71
Crop rotation restrictions beyond start of next crop season (months after application)	N	N	oat - 18; chickpea and lentil - 2		N	corn, CRP grass, potato and sugarbeet - 12
Grass weed control <sup>3</sup> (E=90-99%, G=80-90, F=65-80, P= 40-65% control)						
Wild Oat	E1	E1	G-E2		E1	G-E
Green foxtail	E1	E1	E		E1	P-F
Yellow foxtail	G-E1	G-E1	P-F		E1	P-F
Barnyardgrass	G-E	E	F-G		E	G
Downy Brome	None	None	P-F		None	P-F
Japanese Brome	None	None	G		None	G
Persian Darnel	E	G-E	F-G		NA	F-G
Foxtail Barley	None	None	F		None	F-G
Quackgrass	None	NA	P-F		None	F
Selected annual broadleaf weed control	No	No	Yes		No	Yes

Tank mixtures	see labels					
<p>1Except ACCase resistant plants. 2Except ALS resistant plants. 3E=Excellent, G=Good, F=Fair, P=Poor, NA=no rating available.          Compiled by Greg Endres, NDSU Area Extension Agronomist, Carrington</p>						