

## Grazing and Feeding Restrictions

DS-23-97, Reviewed May 2008

**Richard Zollinger**, Weed Specialist

Hot, dry conditions may lead to a shortage of grass and hay for livestock. Small grain crops are an alternative source of feed for livestock when other feed sources are limited, but previous herbicide usage may influence using small grain crops as livestock feed.

Most herbicides have grazing and feeding restrictions stated on the label that limit the use of the crop for livestock feed. However, the labels are often vague regarding specific information on use of grain crops as forage for livestock, since this is not the normal use.

Grazing and harvesting a crop for feed following herbicide use often is prohibited because research on residue levels in the crop is inadequate. The effect of the chemical or its breakdown products on livestock or retention in the animal's body may not be known. Livestock which consume crops treated with such herbicides probably would not become ill from the chemicals, but could retain the chemicals in their systems. The concern is that herbicides could be passed in the milk of lactating animals or cause abortion in pregnant animals. The chemical may also have potential to be retained by the animals and be present in the slaughtered carcass. Although these problems are not likely to occur, labeling restrictions are strict and should be adhered to. The presence of foreign chemicals in milk or meat of animals can result in confiscation and destruction of the products and loss of income from these animals.

The following table presents some of the grazing and feeding restrictions for herbicides commonly used on small grain crops. The herbicide label is always the final authority on herbicide uses and precautions. Information on the toxic effects of herbicides on animals is not readily available.

### Z1. Restrictions on Grazing/Feeding/Haying of Crops Treated with Herbicides

<b>Herbicide</b>	<b>Crop</b>	<b>Time interval</b>
DAA = days after application after appl.		WAA = Weeks
Accent	Corn	30 DAA
Acetochlor	Corn	No restriction
Achieve	Small grain	30 DAA
Aim	Corn, small grain	No restriction
Amber	CRP, small grain	No restriction
Assert	Sunflower, small grain	Not allowed
Assure II	Canola/mustards, chickpea, dry bean, dry pea, lentil, soybean, sugarbeet	Not allowed

Atrazine	Corn	21 DAA
Authority Assist	Soybean	Not allowed
Authority First	Soybean	Not allowed
Authority MTZ	Soybean	Not allowed
Axial XL	Barley	Not allowed
	Wheat	50 DAA
Balance Pro	Corn	No restriction
Basagran	Corn	12 DAA
	Dry edible bean, dry pea	No restriction
	Soybean	30 DAA
Basis	Corn	30 DAA
Beyond	Clearfield canola, CF wheat	No restriction
	Clearfield sunflower	Not allowed
Bromoxynil	Alfalfa	30 DAA
	Corn, small grain	45 DAA
	CRP, Grass establishment	Not allowed
	Flax	No restriction
Bromox&MCPA	Small grain	45 DAA
Callisto	Corn	45 DAA
Camix	Corn	45 DAA
Celebrity Plus	Corn	32 DAA
Chlorsulfuron	Small grain	No restriction
Chlor&Metslfrn	Small grain	No restriction
ClearMax	Clearfield wheat	7 DAA
Clethodim	Alfalfa	15 DAA
	Canola, chickpea, dry bean, flax, potato, soybean, sunflower, sugarbeet	Not allowed
Clopyralid	Canola/mustards, sugarbeet	7 DAA
Clopyralid& 2,4-D/MCPA	CRP, small grain - graze/feed	7 DAA
	- hay	Not allowed

Dicamba	Corn	> milk stage
	CRP - non-lactating animals	No restriction
	- lactating - see label	< 70 DAA
	Small grain - non-lactating	No restriction
	- lactating - see label	7 DAA
	- haying forage	37 DAA
Discover	Small grain	30 DAA
Distinct	Corn	32 DAA
Eptam	Alfalfa, sunflower	No restriction
Everest	Small grain	60 DAA
Extreme	RUR soybean	Not allowed
Far-Go	Chickpea, small grain	Not allowed
	Field pea	120 DAA
	Lentil	No restriction
Finesse	Small grain	No restriction
FirstRate	Soybean	14 DAA
Flexstar	Soybean	Not allowed
Fusilade DX	Soybean	Not allowed
Fusion	Soybean	Not allowed
Gangster	Soybean	Not allowed
Glyphosate labels indicate that for all registered crops and applications unless otherwise noted there is an 8 week after application (WAA) restriction for grazing, feeding and haying.		
Glyphosate	Alfalfa - Preharvest	1.5 DAA
	Spot - Monsanto	3 DAA
	- Generics	14 DAA
	Renovate - < 1.5 lb ae/A	3 DAA
	- > 1.5 lb ae/A	Not allowed
	Renovation - Generics	8 WAA
	Alfalfa - Roundup Ready5	5 DAA

Barley - Preharvest	After harvest
Postharvest - Monsanto	7 DAA
- Generics	8 WAA
Canola	Not allowed
Canola - RR	8 WAA
Chickpea - Preharvest	8 WAA
Corn - Preharvest	8 WAA
Postharvest - Monsanto	7 DAA
- Generics	8 WAA
Corn RUR - Preharvest	7 DAA
Postharvest	7 DAA
Dry bean - Preharvest	Not allowed
Dry pea - Preharvest	8 WAA
Flax	8 WAA
Lentil	8 WAA
Potato - Preharvest	8 WAA
Soybean - Preharvest	14 DAA
Monsanto - < 22 fl oz/A	25 DAA
- > 22 fl oz/A	25 DAA
Generics - < 6 qt/A	8 WAA
Postharvest	14 DAA
Soybean - RR - Preharvest	Not allowed
Monsanto -	8 WAA
Generics -	8 WAA
	Not allowed

	Postharvest	After harvest
	Sugarbeet	7 DAA
	Sunflower	8 WAA
	Wheat - preharvest	
	Postharvest - Monsanto	
	- Generics	
Halex GT	Corn	45 DAA
Hornet	Corn	No restriction
Huskie	Wheat, barley	25 DAA
Impact	Corn	45 DAA
Laudis	Corn	45 DAA
Liberty	Liberty Link canola or corn	Not allowed
Lightning	Clearfield corn	45 DAA
Lumax	Corn	45 DAA
Maverick	Small grain - Feed, graze	No restriction
	- Hay	30 DAA
MCPA	CRP, small grain - hay	30 DAA
	- graze dairy animal	7 DAA
	- graze meat animal	7 DAA
	Flax, grass establishment	7 DAA
Metolachlor	Chickpea, soybean	No restriction
	Corn	30 DAA
	Dry bean, field pea	120 DAA
	Potato, safflower, sunflower	Not allowed
Metribuzin	Field pea, lentil, soybean	40 DAA
Metsulfuron	CRP	No restriction
	Small grain	No restriction
Met & Chlorsfrn	Small grain	Not allowed
NorthStar	Corn	30 DAA
Olympus	Small grain	No restriction

Option	Corn	45 DAA
Outlook	Corn	45 DAA
Paramount	Soybean	Not allowed
	CRP	309 DAA
Paraquat (PRE)	Small grain	Not allowed
	Corn, dry bean, field pea	7 DAA
	sunflower (desiccant),	
Peak Permit Plateau	small grain	
	Small grain	30 DAA
	Corn	30 DAA
Plateau	CRP	No restriction
	Grass establishment	
Poast		Not allowed
	Alfalfa	7 DAA
	Canola, dry bean, dry pea, flax, lentil, flax, potato, sunflower	No restriction
	sugarbeet	Not allowed
Prowl	Soybean	
	Wheat	28 DAA
	Corn	21 DAA
	Soybean	No restriction
Puma	Chickpea, dry bean, dry pea, lentil, potato, sunflower	Not allowed
	Small grain	No restriction
Pursuit	Alfalfa	30 DAA
	Chickpea, soybean	Not allowed
	Dry edible bean	7 DAA
	Field pea	120 DAA
	Lentil	No restriction
Pursuit Plus	Soybean	Not allowed
Python	Corn	No

	Soybean	restriction
Rage D-Tech	Corn and grass forage	Not allowed 7 DAA
Raptor	Small grains Alfalfa, dry bean, field pea, soybean	14 DAA No restriction
Reflex Rezult	Dry edible bean Soybean	7 DAA Not allowed
Rimfire Rimsulfuron	Dry bean, dry pea Wheat Corn	No restriction 30 DAA 30 DAA
Sequence	Potato Pod crops	Not allowed 120 DAA
Silverado	Soybean Wheat/Durum - hay forage	30 DAA 50 DAA 30 DAA
Sonalan	grain straw Canola/mustard, dry bean soybean, sunflower	55 DAA Not allowed No restriction
Sonic Spartan	Field pea Soybean Dry pea, chickpea, soybean	Not allowed No restriction
Starane	sunflower Corn	47 DAA
Starane NXT	Small grain - graze/feed - hay Small grain	7 DAA 14 DAA 45 DAA
Status	Corn	32 DAA
Steadfast	Corn	30 DAA
Thistrol	Field pea	Not allowed
Thifensulfuron	Soybean, small grain	Not allowed
Thifn&Tribenrn	Small grain	Not allowed
Tribenuron	Small grain	Not allowed
Trifluralin	Canola/mustard, dry bean pea, lentil, potato,	Not allowed

	safflower, sunflower, sugarbeet	No restriction
	Chickpea, flax, soybean, small grain	
Ultra Blazer	Soybean	Not allowed
Valor	Soybean	Not allowed
WideMatch	Corn	47 DAA
	Small grain - graze/forage	7 DAA
		14 DAA
	- hay	
2,4-D	CRP, grass - hay	30 DAA
	- graze/feed dairy animal	7 DAA
	- graze/feed meat animal	3 DAA
	Small grain	14 DAA
	- graze/feed/hay dairy animal	No restriction
	- graze/feed/hay meat animal	
2,4-DB	Alfalfa	30 DAA
	Soybean	60 DAA

### Grazing and Haying Restrictions for Herbicides Used in Pasture and Rangeland

Herbicide <sup>1</sup>	Lactating dairy animals		All animals except lactating dairy animals		Removal before slaughter
	Before grazing	Before hay harvest	Before grazing	Before hay harvest	
	days after application		days after application		
Cimarron/Extra	0	0	0	0	0
Cimarron Max/Extra	7	-	0	0	30
Amber	0	30	0	30	0
Clopyralid	0	0	0	0	0
Clopyralid + 2,4-D	14	30	0	30	73
Crossbow	1 year	1 year	02	1 year	3
Dicamba <sup>1</sup>	7	37	0	0	30
Up to 1 pt	21	51	0	0	30
Up to 2 pt	40	70	0	0	30

Up to 4 pt	60	90	0	0	30
Up to 16 pt					
FallowMaster	8 weeks	8 weeks	8 weeks	8 weeks	8 weeks
Fuego	7	30	0	30	30
Glyphosate1	No restriction	No restriction	No restriction	No restriction	No restriction
Pre/Renovation - < 1.5 lb ae/A	8 weeks	8 weeks	8 weeks	8 weeks	8 weeks
- > 1.5 lb ae/A	7	7	7	7	7
Spot Spray - Monsanto6	14	14	14	14	14
- Generics	8 weeks	8 weeks	8 weeks	8 weeks	8 weeks
Broadcast					
Glyphosate + 2,4-D premix5	7	30	3	30	3
Grazone P + D	7	30	7	30	3
Metsulfuron	0	0	0	0	0
Milestone	0	0	0	0	0
Paramount	No grazing allowed. Do not hay for 309 days after application.				
Paraquat4	1 month	1 month	1 month	1 month	0
Plateau	0	7	0	7	0
Rave	7	0	0	0	0
Redeem	1 year	1 year	0	1 year	3
Spike7	0	1 year	0	1 year	0
Tordon 22K8	14	14	0	14	3
2,4-D/MCPA1	7	30	0	30	3

1 Check individual product labels containing the same active ingredients for restrictions and use rates.

2 One year if more than 1.5 gallons/A is used.

3 Withdrawal not needed if 2 weeks or more time elapsed since application.

4 Restrictions based on degree of new seedling establishment before grazing. Suggested at least 6 inches of grass or legume growth.

5 No restrictions if 10% or less of the area is treated.

6 Do not treat more than one-tenth of any given acre at one time with spot or wiper applications. Remove livestock before application.

7 If no more than 20 lb/A used.

8 Remove livestock to untreated grass pasture for 7 days before transferring livestock to broadleaf or pasture areas. Removal before slaughter statement only applies to animals grazing treated forage for 2 weeks immediately after application.

**NDSU**  
**Extension Service**  
North Dakota State University

County Commissions, North Dakota State University and U.S. Department of Agriculture cooperating. North Dakota State University does not discriminate on the basis of race, color, national origin, religion, sex, disability, age, Vietnam Era Veterans status, sexual orientation, marital status, or public assistance status. Direct inquiries to the Vice President for Equity, Diversity and Global Outreach, 205 Old Main, (701) 231-7708. This publication will be made available in alternative formats for people with disabilities upon request, 701 231-7881.