















	Weeds	Ranked A	Overall	Weighted			
Weed Species	1st	2nd	3rd	4th	5th	Ranking	Ranking
		Numb	er of Resp	onses			96
Bedstraw, smooth	16	5	6	2	2	1	19.2%
Milkweed, common	5	7	9	4	5	2	14.4%
Canada thistle	3	8	2	3	2	3	9.4%
Goldenrod	3	3	4	7	1	4	8.4%
Bull thistle	5	0	7	1	0	5	7.4%
Burdock	3	3	2	2	3	6	6.2%
Buttercup	1	6	1	3	2	7	6.2%
Horsenettle	3	3	1	1	1	8	5.1%
Curly dock	1	4	0	2	0	9	3.9%
Wild carrot	2	1	2	1	0	10	3.4%
Knappweed, spotted	3	1	1	0	0	11	3.4%
Plantains	1	1	1	1	2	12	2.5%
Wild chervil	1	1	1	0	2	13	2.2%
Dandelion	1	1	0	0	1	14	1.5%
Pokeweed	0	1	0	1	2	15	1.2%
Cingefoil species	0	0	1	2	1	16	1.2%
Spurge, leafy	1	0	0	1	0	17	1.1%
Wild parsnip	0	0	1	1	0	18	0.8%
Nightshade, eastern black	0	0	0	1	з	19	0.8%
Dogbane, hemp	0	1	0	0	0	20	0.6%
Chicory	0	0	1	0	0	21	0.5%
White campion	0	0	0	1	0	22	0.3%
Yellow rattle	0	0	0	1	0	23	0.3%





Plant	% Crude protein	% IVDMD*	
Curly dock	30 - 16	73 - 51	
Redroot pigweed	24 - 11	73 - 64	
/A Pepperweed	32 – 17	86 - 63	
ellow foxtail	17 - 14	73 - 57	
arge crabgrass	14 - 6	79 - 63	
Vhite clover	27 - 23	81 - 83	
all fescue	22 - 12	78 - 67	





# Info on Poisonous Plants

- Numerous books, fact sheets, and websites on toxic plants
- Trust university or science-based publications
- Consult with veterinary scientist if you have concerns





research.vet.upenn.edu/poisonousplants/ Home/tabid/5034/Default.aspx

www.extension.purdue.edu/extmedia/WS/WS\_37\_ToxicPlants08.pdf



















# Cultural Weed Management Soil pH and Fertility

The addition of lime and fertilizer may help prevent weeds by improving pasture growth, density and competitiveness.

Adding fertilizer to poor, weedy pastures without first controlling the weeds can often "feed" the weeds.

It pays to soil test











#### **Mowing and Hand Removal**

 Repeated mowing (2 to 4 times/year) reduces weed competition, helps deplete root/vegetative reserves, prevents seed production



 Particularly important during establishment year – mow when weeds are 8 to 10 inches tall



 For new or scattered weeds, dig, pull, or remove seedheads to prevent spread

#### **Clipping or Mowing**

- May be sufficient for annual weed control
  - Mow after stem elongation
  - Mow before seed set to reduce seed production
- Helps deplete root carbohydrates of perennials
  - Frequent mowing necessary for complete control



















Weed	2,4-D	Clarity (dicamba)	2,4-D + Clarity	Cimarron Plus	Crossbow	ForeFront	Roundup (spot)
Milkweed	6	8	8+	N	7+	6	7+
Poison hemlock	7	8	9	N	9	7	9
Pokeweed	7	7	7		9	8	8
E. Black nightshade	7+	8+	8	8	8+	9	9
Horsenettle	7	8	8+	6	8+	9	8
Jimsonweed	8	9+	9+	9+	9	8	9
Buttercup	8+	8	9	9+	9	9	9
Lambsquarters	9	9+	9+	9+	9+	9	9
Pigweed	9	9	9+	9+	9	8	9
Ragweed	9	9	9+	7	9+	9	9+
White snakeroot	8	9	9	N	9	8	8
Plantain species	9	8	9+	9	9	7+	9
Smooth bedstraw	7	N	7	N	8+	9	9
Canada thistle	8	8	8+	8+	8	9+	8
Multiflora rose	6	6	7+	8+	8+	7+	8

FOI	low Her	(taken fro	om PSU Agr	nd Haying Restrictions
Table 2.6-9. Grazing	and haying res	strictions for gra	ss forage and	pasture herbicides.
Herbicide	Type of Animal	Interval Between Application and Grazina	Interval Between Application and Having	Comments
2,4-D amine	Lactating dairy	7 days	30 days	Remove meat animals from treated area 3 days before slaughter. 2,4-D labels vary. See specific label of product used.
2,4-D LVE	Lactating dairy	7 days	30 days	Remove meat animals from treated area 3 days before slaughter. 2,4-D labels vary. See specific label of product used.
Cimarron Plus (metsulfuron + chlorsul- furon)	All	None	None	Be cautious of crop rotation restrictions. See label for details.
Clarity/Banvel (dicamba)	Lactating dairy	7 days if < 1 pt 21 days if 1-2 pt 40 days if 2-4 pt	37 days if < 1 pt 51 days if 1-2 pt 70 days if 2-4 pt	No waiting period between treatment and grazing for nonlactating animals. Remove meat animals from treated areas 30 days prior to slaughter.
Crossbow (2,4-D + triclopyr)	Lactating dairy Other livestock	Do not graze until next season None	14 days 14 days	Remove meat animals from treated areas or dried hay 3 days prior to slaughter.
ForeFront (arninopyralid + 2,4-D)	All	None	7 days	Do not transfer grazing animals for 3 days from treated areas to areas with Mileston sensitive-species. Do not spread manure to areas where sensitive-species are or will be grown.
Metsulfuron	All	None	None	Do not seed to other crops for 1 or more years. See label for restrictions.
Milestone (arrinopyralid)	All	None	None	Do not transfer grazing animals for 3 days from treated areas to areas with Mileston sensitive species. Do not spread manure to areas where sensitive-species are or will be grown.
Overdrive/Distinct (dicamba + diflufenzopyr)	All	None	None	Do not apply more than 8 oz/A per season.
Roundup/glyphosate	Al	Spot—7 days Renovate—56 days	Spot—7 days Renovate—56 days	Use as spot treatment. Do not treat more than one-tenth of any acre. Leaves no soil residue.

Common Herbicides for Grass	Hay/Pastures
	Avg. herbicide cost/acre
• 2,4-D	<\$5
Banvel/Clarity (dicamba)	<\$10
Cimarron Plus (metsulfuron + chlorsulfuro	<sup>on)</sup> \$15
• Crossbow (triclopyr + 2,4-D)	\$20-30
• ForeFront HL (aminopyralid + 2,4-D)	\$15
<ul> <li>Roundup/glyphosate production</li> </ul>	ts \$5-10
<ul> <li>Spot treatments or renovation</li> </ul>	I
• Facet (quinclorac)	<b>≈\$25</b> (25 fl oz)
*The avg. cost does not represent the use of spray a **Generic alternatives are available for some of these	dditives or application costs herbicides
So	urce: Bill Curran, Penn State

Active ingredient(s)	Tradename	Manufacturer	Alternative to:
Clopyralid	Clopyr AG Spur Pyramid	UPI Albaugh/Agri-Star Albaugh/Agri-Star	Stinger
Metsulfuron-methyl	Accurate Ciramet Metsulfuron-methyl Metsulfuron 60EG AG Plotter	Cheminova AgSurf FarmSaver.com Arysta LifeScience Rotam North Amer.	Cimarron 60DF (DuPont no longer sells the single ai product for pastures)
Metsulfuron-methyl + chlorsulfuron	Chisum	Cheminova	Cimarron Plus
Friclopyr + 2,4-D	Candor Crossroad	NuFarm Albaugh/Agri-Star	Crossbow

