

NEWSS COLLEGIATE WEED CONTEST – CORNELL UNIVERSITY 2010

Herbicide	Trade Name	Herbicide Family	Mode of Action	Application	Use Rate	
					Per Acre	Per Hectare
1. Atrazine	AArex 4L	triazine	Photosystem II inhibitor	PRE	1 qt	2.34 L
2. Bentazon	Basagran	benzothiadiazole	Photosystem II inhibitor	POST	1 qt	2.34 L
3. Bromoxynil	Buctril	nitrile	Photosystem II inhibitor	POST	1.5 pt	1.75 L
4. Chlorimuron	Classic	sulfonylurea	ALS inhibitor	POST	0.5 oz	35 g
5. Clethodim	Select Max	cyclohexanedione	Fatty Acid syntehsis	POST	1 pt	1.17 L
6. Clomazone	Command 3	isoxazolidinone	Pigment inhibitor	PRE	1 pt	1.17 L
7. 2,4-D	4 lb/gal Amine	phenoxy	Plant growth regulator	POST	1 pt	1.17 L
8. Dicamba	Clarity	benzoic acid	Plant growth regulator	POST	0.5 pt	.58 L
9. Dithiopyr	Dimension	pyridazine	Seedling root inhibitor	PRE	2 qt	4.68 L
10. Flumioxazin	Valor SX	phenylphthalimide	PPO inhibitor	PRE	3 oz	210.2 g
11. Glufosinate	Ignite 280 SL	amino acid analog	Nitrogen metabolism	POST	22 fl oz	1.61 L
12. Glyphosate	Roundup	amino acid analog	Amino acid synthesis	POST	22 fl oz	1.61 L
13. Halosulfuron	Permit/Sandea	sulfonylurea	ALS inhibitor	POST	0.67 oz	46.9 g
14. Imazethapyr	Pursuit 2 EC	imidazolinone	ALS inhibtor	POST	4fl oz	292 mL
15. Isoxaflutole	Balance Pro	isoxazole	HPPD inhibitor	PRE	3fl oz	219 mL
16. Lactofen	Cobra	diphenyl ether	PPO inhibitor	POST	12.5 fl oz	913 mL
17. Mesotrione	Callisto	triketone	HPPD inhibitor	POST	3 fl oz	219 mL
18. Metribuzin	Sencor 75DF	triazine	Photosystem II inhibitor	PRE	0.5 lb	.56 kg
19. Nicosulfuron	Accent	sulfonylurea	ALS inhibitor	POST	0.67 oz	47 mL
20. Paraquat	Gramoxone	bipyridylum	Cell membrane disrupter	POST	1 qt	2.34 L
21. Pendimethalin	Prowl H ₂ O	dinitroaniline	Seedling root inhibitor	PRE	3 pt	3.51 L
22. Saflufenacil	Sharpen	pyrimidinedione	PPO inhibitor	PRE	2.5 fl oz	183 mL
23. S-Metolachlor	Dual II	chloroacetamide	Seedling root inhibitor	PRE	1.33 pt	1.56 L
24. Thifensulfuron	Harmony SG	sulfonylurea	ALS inhibitor	POST	0.5 oz	35 mL
25. Topramezone	Impact	triketone	HPPD inhibitor	POST	0.75 fl oz	55 mL

NOTE: Application rates are in amount of product per acre/hectare; appropriate adjuvants will be added to POST applications.