

Herbicide	Herbicide Site of Action Group	Foliar Activity: Systemic or Contact (non-systemic)	Carrier Volume (GPA)	Droplet Size	Nozzle Type	Adjuvants
Clethodim (various)	1	systemic	5 to 40, >10 if weed foliage is dense			COC UAN or AMS
Clopyralid	4	systemic	minimum of 10	medium to coarse		None
Cobra/Phoenix (lactofen)	14	contact	10 to 30		Flat fan or hollow cone	COC or MSO UAN or AMS NIS may substitute for COC when weeds are actively growing under high humidity
Dicamba (Clarity, etc.)	4	systemic	3 to 50	Coarse	Raindrops, XR flat fans, Turbo Teejets, Turbo Foodjets	NIS or COC UAN or AMS
Dicamba (Engenia/XtendiMax)	4	systemic	>15	see product websites	see product websites	see product websites
DiFlexx (dicamba + cyprosulfamide)	4	systemic	3 to 50	Coarse or larger		NIS, COC or MSO UAN or AMS
DiFlexx DUO (dicamba + tembotrione + cyprosulfamide)	4 + 27	systemic	10 to 20	Medium to coarse		COC, MSO, or HSOC plus UAN or AMS
Elevore (halauxifen-methyl)	4	systemic	>10			COC or MSO
Enlist Duo (2,4-D choline + glyphosate)	4 + 9	systemic	10 to 15	see product website	see product website	see product website
Enlist One (2,4D choline)	4	systemic	10 to 15	see product website	see product website	see product website
Extreme, Thunder Master, Tackle (imazethapyr + glyphosate)	2 + 9	systemic	Minimum of 10			NIS UAN or AMS
FirstRate (cloransulam-methyl)	2	systemic	10 to 40	Medium to coarse	20 to 40 psi	NIS, COC or MSO UAN or AMS The spray mix should include UAN or AMS if velvetleaf is a target weed.
Flexstar GT 3.5 (glyphosate + fomesafen)	9 + 14	contact + systemic	15 to 20	Medium	Flat fan	NIS, COC or MSO UAN or AMS COC or MSO may cause leaf burn
Fomesafen (Flexstar, etc.)	14	contact	Minimum of 15; 15-20 recommended	Medium	Flat fan	NIS, COC or MSO UAN or AMS
Fusilade DX (fluazifop)	1	systemic	Minimum of 5; >20 if weed foliage is dense		30-60 psi	NIS or COC UAN may be added
Glufosinate (Liberty/Cheetah/Interline)	10	contact	Minimum of 10; 15-20 recommended		Flat fan	AMS
Gramoxone SL 3.0 (paraquat)	22	contact	At least 10; 15-20 if weeds >3 inches		Flat fan at least 30 psi	NIS or COC

Herbicide	Herbicide Site of Action Group	Foliar Activity: Systemic or Contact (non-systemic)	Carrier Volume (GPA)	Droplet Size	Nozzle Type	Adjuvants
Halex GT (glyphosate + mesotrione + S-metolachlor)	9 + 27 + 15	systemic + systemic + na	10 to 30	Medium to coarse	Flat fan or Turbo Teejet	NIS AMS
Harmony SG, Harass, Treaty (thifensulfuron)	2	systemic	10 to 25	Medium to coarse	Flat fan 25 to 60 psi	NIS, COC or MSO UAN or AMS
Harness Max (acetochlor + mesotrione)	15/17	systemic	10 to 30	Medium to coarse	Flat fan	NIS or COC. AMS or UAN may be added
Hornet (clopyralid + flumetsulam)	2 + 4	systemic	10 to 60	Medium to coarse	Flat fan	NIS, COC, or MSO. UAN or AMS may be added
Impact Core	15 + 27	systemic		Medium to coarse	Flat fan	MSO, HSMOC, NIS, AMS, or UAN
Impact/Armezon (topramezone)	27	systemic	Minimum of 10; 15 to 20 if weeds are large or dense	Medium to coarse	Flat fan	COC or MSO UAN or AMS
InterMoc (glufosinate + s-metolachlor)	10 + 15	contact	10 to 30; >15 if dense weeds		Flat fan	AMS
Katagon (tolpyralate + nicosulfuron)	2 + 27	systemic	10 to 50			MSO, COC, or NIS. UAN or AMS may be added.
Laudis (tembotrione)	27	systemic	Minimum of 10; 15-20 if weed foliage is dense	Medium, and increase application volume when using nozzles that produced coarse spray droplets	Flat fan 80 or 110 degrees	MSO UAN or AMS
Marksman (dicamba + atrazine)	4 + 5	systemic + contact	10 to 50	Coarse	Raindrop, XR flat fans, Turbo Floodjet, Turbo Teejet	NIS or COC UAN or AMS
Marvel (fomesafen + fluthiacet methyl)	14	contact	Minimum of 10; >20 if weed foliage is dense	Medium		NIS, COC or MSO UAN or AMS
Mesotrione	27	systemic	10 to 30, >20 if weed foliage is dense	Medium to coarse	Flat fan	COC UAN or AMS Do NOT use MSO adjuvants
Peak (prosulfuron)	2	systemic	Minimum of 5; 20 if weed foliage is dense	Medium		NIS or COC UAN or AMS
Permit/Sandea/Halomax/Herbivore (halosulfuron)	2	systemic	Minimum of 15			NIS, COC or MSO Include UAN or AMS when velvetleaf or redroot pigweed is present.
Perpetuo (flumiclorac + pyroxasulfone)	14 +15	contact	15 minimum, so minimum in large or dense weeds		Flat fan or hollow cone, 35 to 60 psi	MSO or COC, NIS may be used in mixtures. UAN or AMS may be added