

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Refer to page 6 for Fall or Spring Early Preplant Herbicides.				
Callisto (mesotrione ²⁷)	3 to 6 fl oz (1.5 to 3 oz)	Many broadleaf weeds including those resistant to other herbicides.	PRE.	Callisto PRE requires rain for activation. For POST application add petroleum oil at 1 qt/A or NIS at 1 qt/100 gal + UAN at 2.5 gal/100 gal or AMS at 8.5 lb/100 gal water. Addition of bromoxynil will increase risk of oat injury. Allow a 50 day PHI. A3 A7 D4
	3 fl oz (1.5 oz)		POST. Weeds: Up to 5 inches tall.	
Aim (carfentrazone ²)	0.5 fl oz EC (0.128 oz)	Small broadleaf weeds.	Crop: Up to jointing stage. Weeds: Small.	Contact, non-residual herbicide requiring thorough coverage. May cause cosmetic speckling on oat. Add NIS at 1 qt/100 gal. A3 B4 S6-8
MCPA ⁴ amine MCPA ⁴ ester	0.5 to 1 pt 4SL 0.5 to 1 pt 4EC (0.25 to 0.5 lb)	Broadleaf weeds.	Oat: 3-leaf until prior to boot stage.	Possible oat injury at any stage. A3 A6 B4
Bromoxynil ⁶	1 to 1.5 pt EC (0.25 to 0.38 lb)	Small broadleaf weeds including wild buckwheat, and volunteer sunflower.	Oat: 3-leaf until prior to boot stage.	Bromoxynil is a non-residual, contact herbicide requiring thorough coverage. Most active in hot and sunny conditions. Controls ALS-resistant kochia. Refer to label for tank-mix options. A3 C1-2 S1 S6-12
Bromoxynil ⁶ & MCPA ⁴	1 to 2 pt 4EC 0.8 to 1.6 pt 5EC (0.25 to 0.5 lb & 0.25 to 0.5 lb)			
Dicamba ⁴ + MCPA ⁴	2 to 4 fl oz + 0.5 to 0.75 pt 4L (0.06 to 0.12 lb + 0.25 to 0.38 lb)	Broadleaf weeds.	Oat: 3- through 5-leaf stage.	Use the low dicamba rate and high MCPA rate on 5-leaf oat. Early application increases crop safety. A3 A5-7 B6 C2 C4 S1 S4-12 Y9
Curtail M / generic clopyralid ⁴ & MCPA ⁴	1.75 to 2.33 pt (0.09 to 0.12 lb & 0.5 to 0.68 lb)	Broadleaf weeds and Canada thistle.	Oat: 3-leaf to jointing.	Apply to Canada thistle at the rosette to early bolting stage. A3 C5 T3 T5
Fluroxypyr ⁴	0.67 pt 1.5EC 0.35 pt 2.8EC 5 oz 40WDG (2 oz)	Kochia including ALS-resistant and volunteer flax.	Oat: 2-leaf through flag leaf emergence. Weeds: Small.	Non-residual herbicide. Allow a 40 day PHI. Refer to label for tank-mix options. Commercial mixtures with bromoxynil available as Starane NXT and with MCPA as Colt + Sword. A3 C5 S6
Widematch / generic clopyralid ⁴ & fluroxypyr ⁴	1.33 pt (0.125 lb & 0.125 lb)	Broadleaf weeds including kochia, wild buckwheat, volunteer flax, and Canada thistle.	Oat: 3-leaf through flag leaf emergence. Weeds: Up to 4 inches tall or vining.	An economical formulation of clopyralid. Addition of 2,4-D, MCPA, or thifensulfuron increases broadleaf weed control. Commercial mixture with MCPA ester available as Hat Trick or Weld. A3 C5 S1 S5-12 T3 T5
thifen ² & tribenuron ² 1:0 75DF 1:0 50SG 4:1 ratio 75DF Affinity T/M 50SG 3:1 Audit 75DF 2:1 ratio 75DF 1:1 ratio 75DF Affinity B/S 50SG Sentrallas	0.3 to 0.4 oz DF 0.45 to 0.6 oz SG 0.4 to 0.67 oz DF 0.6 to 1 oz SG 0.3 to 0.5 oz DF 0.3 to 0.66 oz DF 0.25 to 0.5 oz DF 0.4 to 0.8 oz SG 7 to 9 fl oz	Provides a broader spectrum of control than either a.i. alone. Choose ratio based on prevalent weeds.	Oat: 3- through 5-leaf stage but before jointing.	Do not use on Ogle, Porter, or Premier oat varieties. Addition of MCPA ester at 0.75 pt/A enhances broadleaf weed control and oat safety. Add NIS at 1 pt/100 gal except when adding MCPA at 0.75 pt/A. Refer to label for list of tank-mix options. A3 A5-7 S1 S7 T3 Sentrallas = thifensulfuron & fluroxypyr
Orion (florasulam ² & MCPA ⁴ ester)	17 fl oz (0.07 oz & 0.31 lb)	Some broadleaf weeds.	Crop: 3-leaf to jointing. Weeds: Small.	Add NIS at 1 qt/100 gal. Allow a 60 day PHI. Refer to label for application information. A3
Supremacy (fluroxypyr ⁴ & thifensulfuron ² & tribenuron ²)	4 to 6 oz (1 to 1.5 oz & 0.18 to 0.27 oz & 0.06 to 0.09 oz)	Broadleaf weeds including pigweed, buckwheat, kochia, mustard, flax, and Canada thistle.	Wheat: 2-leaf through flag leaf emergence.	Add NIS at 1-2 qt/100 gal except when adding an EC or ester formulated herbicide. Use higher rates for larger weeds. A3 C5 S1 S5-12