

Table 3. Major knockdown and preemergence herbicides for weed control in DSR in the Eastern Gangetic Plains (adapted from Kumar and Ladha 2011).

Herbicide (active ingredient, a.i.)	Product (trade) name*	Concentration (g a.i./ha)	Product dose (g/ha or mL/ha)	Application time (DAS)	Strengths	Weaknesses
<i>Knockdown/nonselective</i>						
Glyphosate	Roundup	1,000	2,500 mL		Good control of most grasses, some broadleaves and annual sedges	Weak on <i>Ipomoea triloba</i> and <i>Commelina</i> species
Paraquat	Gramoxone	500	2,000 mL		Good control of most grasses, some broadleaves and annual sedges	
<i>Preemergence</i>						
Pendimethalin	Stomp/Stomp xtra	1,000	3,330 mL 2,580 mL	1–3	Good control of most grasses, some broadleaves and annual sedges. Has residual control.	Sufficient moisture is needed for its activity
Oxadiazyl	Topstar	90	112.5 g	1–3	Broad-spectrum weed control of grasses, broadleaves, and annual sedges. Has residual control.	Sufficient moisture is needed for its activity

*Does not imply endorsement of the product