

## Weed control in soybean with Zidua and Engenia tank mixes

The objective of the study was to evaluate Zidua and Engenia tank mixes for weed control in soybean. Treatments were applied preemergence (PRE) and/or postemergence at the 2-3 trifoliate stage.

None of the treatments caused significant crop injury. The PRE treatment alone did not provide adequate control of dandelion or yellow foxtail. POST treatments provided excellent dandelion control. Zidua Pro + Roundup applied PRE provided poor kochia control. However, adding Engenia or Metribuzin resulted in excellent kochia control. Zidua Pro + Metribuzin + Roundup did not control foxtail barley. It may be that Metribuzin is antagonizing control of foxtail barley. All treatments provided good to excellent control of lambsquarters. Roundup applied POST was necessary to control late emerging foxtail.

Title. Weed control in soybean with Zidua and Engenia tank mixes. (1737)														
			Soybean			Weed Control <sup>a</sup>								
			Injury			Dand		Colq		Foba		Koch		Yeft
Treatment <sup>ab</sup>	Rate	Timing	Jun-24	Jul-1	Jul-31	Jul-1	Jul-31	Jul-1	Jul-31	Jul-1	Jul-31	Jul-1	Jul-31	Jul-31
	(oz/A)		-----%-----											
Untreated			0	0	0	0	0	0	0	0	0	0	0	0
Zidua Pro + Rup <sup>c</sup>	4.5 + 32	PRE	0	0	0	42	45	99	84	96	94	65	40	53
Zidua Pro + Eng + Rup <sup>c</sup>	4.5 + 12.8 + 32	PRE	0	0	0	70	62	99	99	88	90	98	99	65
Zidua Pro + Metri + Rup <sup>c</sup>	4.5 + 4 + 32	PRE	0	0	0	45	30	99	99	30	23	97	96	60
Zidua SC + Eng + Rup <sup>c</sup>	2.13 + 12.8 + 32	PRE	0	0	0	66	60	99	92	91	87	98	99	60
Zidua SC + Eng + Rup <sup>c</sup> / Zidua SC + Eng + Rup <sup>d</sup>	2.13 + 12.8 + 32 / 2.13 + 12.8 + 32	PRE / 2-3Tri	5	4	0	94	99	99	99	99	99	99	99	91
Zidua SC + Eng + Pursuit + Rup <sup>c</sup>	2.74 + 12.8 + 3 + 32	PRE	0	0	0	73	73	99	96	95	98	99	97	68
Zidua SC + Eng + Pursuit + Rup <sup>d</sup>	2.74 + 12.8 + 3 + 32	2-3Tri	5	4	0	69	93	99	99	80	93	99	99	95
Zidua SC + Eng + Pursuit + Rup <sup>c</sup> / Zidua SC + Eng	2.74 + 12.8 + 3 + 32 / 2.13 + 12.8	PRE / 2-3Tri	0	0	0	88	99	99	99	94	89	99	99	62
LSD (0.05)			NS	NS	NS	8	10.8	0.3	10.1	13.1	17.1	12.8	6.3	14.4
<sup>a</sup> Rup = Roundup PowerMax; Eng=Engenia; Metri=Metribuzin														
<sup>b</sup> All treatments applied with Class Act Ridion (1%)														
<sup>c</sup> Applied with MSO (1%)														
<sup>d</sup> Applied with NIS (0.25%)														
<sup>a</sup> Dand=Dandelion; Colq=Common lambsquarters; Foba=Foxtail barley; Koch=Kochia; Yeft=Yellow foxtail														