Spring wheat tolerance and weed control with Puma and tank mix partners

'Howard' spring wheat was seeded May 18 at 90 lb/A into 7.5-inch rows in conventionally tilled field. Herbicides treatments were applied postemergence (POST) on June 12. The Puma/Huskie split application was applied on June 12/17. Individual plots were 10 x 30 ft and replicated three times. Weeds present included wild oat (3-4 leaf, 0-15/ft^2), foxtail (0.5-2", 50-200/ft^2), kochia (0.5-1.5, 0-20/ft^2) and redroot pigweed (0.5", 0-15/ft^2). Yellow foxtail was dominant in rep 1, but reps 2 and 3 were mostly green foxtail. Only Rimfire provided slightly less foxtail control in rep 1.

Rimfire Max caused significant wheat chlorosis and slight stunting 1 and 3 weeks after treatment (WAT). This injury subsided to less than 10% by 5 WAT and there was no effect on wheat yield. Puma and Huskie provided excellent control of all weeds whether tank mixed or applied as a split application. Puma + Bronate provided good to excellent weed control, but foxtail and pigweed control was slightly lower than with Puma + Huskie. Rimfire + Huskie provided excellent control of wild oat, kochia, and pigweed, but provided poor foxtail control. All herbicide treatments provided similar wheat yield, which was about 16 bu/A higher than the untreated check.

Table. Spring wheat tolerance and weed control with Puma and tank mix partners (0926).

Treatment	Rate	Wheat			Wioa[a]		Fxtl[a]		Kocz[a]		Rrpw[a]		Wheat	
		Jun 19	Jul 04	Jul 17	Jul 04	Jul 17	Jul 04	Jul 17	Jul 04	Jul 17	Jul 04	Jul 17	Yield	TW
		------% injury------			--------------------------% control--------------------------								bu/A	lb/bu
Untreated		0	0	0	0	0	0	0	0	0	0	0	40	62.8
Puma / Huskie + AMS	0.66 pt / 11 oz + 0.5 lb	3	0	0	98	99	97	95	100	100	100	100	56	62.5
Puma + Huskie	0.66 pt + 11 oz	1	0	0	98	94	90	91	98	100	95	99	56	62.1
Puma + Bronate Adv.	0.66 pt + 0.8 pt	1	0	0	94	98	88	84	97	100	79	85	56	62.0
Rimfire Max + Huskie + MSO	3 oz + 11 oz + 1.5 pt	22	17	5	93	99	67	50	100	100	94	99	55	62.5
LSD (0.05)		1.7	1	NS	2.5	7.8	6.9	8.7	4.8	NS	7.4	7.1	7	NS
CV		16	15	0	2	5	5	7	3	0	5	5	7	1

[a] Wioa =Wild oat, Fxtl =Foxtail, Kocz =Kochia, Rrpw =Redroot pigweed