

Study Name: Efficacy of BAS 800 + glyphosate in summer fallow (0746)

Objectives: Evaluate residual weed control in summer fallow with BAS 800 + glyphosate

Results:

BAS 800 is a new herbicide being developed by BASF for preplant or preemergence use in several crops, for summer fallow, or for post-harvest applications. This study evaluated residual weed control in summer fallow. Treatments were applied when weeds were generally 1 to 6 inches tall. BAS 800 provided good to excellent control of emerged kochia, lambsquarters, wild buckwheat, and redroot pigweed. BAS 800 provided better wild buckwheat control than glyphosate as well as more residual control of redroot pigweed. The treatments were applied June 5 with residual control lasting through the end of June to early July. Kochia control was generally better with the combination of BAS 800 + glyphosate compared to either product applied alone. It is clear that for BAS 800 to be most effective, good plant coverage is essential.

Treatment ^{ab}	Rate	Kocz		Colq		Wibw		Rrpw	
		% control Jun 21	% control Jun 30						
Untreated Check		0	0	0	0	0	0	0	0
BAS 800 + Agridex	2.85fl oz + 1%	90	88	98	94	93	93	99	94
Glyphosate + Agridex	32fl oz+ 1%	94	92	100	98	76	72	100	87
BAS 800 + Glyphosate + Agridex	2.85fl oz + 32fl oz+ 1%	99	97	100	98	94	90	100	95
BAS 800 + Glyphosate + Agridex	4.34fl oz + 32fl oz+ 1%	98	95	100	98	99	96	100	94
BAS 800 + Glyphosate + Agridex	5.7fl oz + 32fl oz+ 1%	94	89	100	100	95	93	99	96
FallowMaster	44fl oz	96	95	100	98	95	94	100	91
LSD (0.05)		6	7.4	2.3	4	11.8	15.6	1.1	9.6
CV		4.2	5.2	1.5	2.7	8.4	11.4	0.8	6.8

^a BAS 800 = BAS 800 03H; Glyphosate = Roundup Original

^b All treatments applied with AMS (17lb/100gal)

^c Kocz = Kochia; Colq = Common lambsquarters; Wibw = Wild buckwheat; Rrpw = Redroot pigweed