

Table 2. Comparison of preemergence herbicide treatments for weed control in chickpea. No significant injury was observed in any of the herbicide treatments.

Treatment	Rate oz/A	Kochia	lmsqtr	gfox	woat	Stand #/m ²	Hgt cm	Yield LB/A
		%						
Untreated		0	0	0	0	28 -	49 -	1910 -
Authority Supreme	5	86 bc	98 a	78 d	68 cd	30 -	51 -	2063 -
Authority Supreme	10	99 a	100 a	93 a	87 ab	34 -	48 -	2054 -
BroadAxe	20	82 c	100 a	85 bc	71 cd	38 -	47 -	2095 -
BroadAxe	32	85 bc	100 a	94 a	57 d	30 -	47 -	1805 -
Spartan Charge	3.75	84 bc	100 a	0 e	0 f	33 -	50 -	2027 -
Spartan Charge	5	85 bc	100 a	0 e	0 f	28 -	46 -	1877 -
Spartan Charge	7.75	82 c	100 a	0 e	0 f	28 -	49 -	1740 -
Anthem Flex	3	88 bc	92 b	81 cd	73 c	35 -	48 -	2235 -
Anthem Flex	4	87 bc	89 b	85 bc	71 cd	35 -	48 -	1922 -
Anthem Flex	5	98 a	98 a	89 ab	88 a	32 -	48 -	2068 -
Dual II Magnum Sharpen	2 2	75 d	100 a	87 b	19 e	29 -	50 -	1717 -
Dual II Magnum Sharpen	2 2	89 b	100 a	94 a	82 abc	31 -	47 -	1845 -
Zidua	3.25							
BroadAxe	20	85 bc	100 a	89 ab	74 bc	37 -	51 -	1829 -
LSD P=.10		6.1	4	5.6	13.3	6.24	2.75	296.3
CV		5.92	3.38	7.02	20.9	16.42	4.81	12.74
Treatment Prob(F)		0.0001	0.0002	0.0001	0.0001	0.1087	0.6180	0.1535

*All treatment were tank-mixed with Roundup PowerMax (22 oz/A), AMS (8.5 LB/gal), MSO (1%v/v)

**Abbreviations: lmsqtr, common lambsquarters; gfox, green foxtail; woat, wild oat, Hgt, height

Application Description	Application Equipment
Application Date	May-11-2022
Equipment Type	SPTRMO
Appl. Start Time	3:35 PM
Operation Pressure	35 PSI
Appl. Stop Time	4:09 PM
Nozzle Model	11002
Application Method	SPRAY
Nozzle Type	DRIRED
Application Timing	PRE
Nozzle Spacing	20.0 IN
Application Placement	BROADCAST
% Coverage	100
Applied By	CDD
Boom Length	100 IN
Appl. Entry Date	May-12-2022
Boom Height	20.0 IN
Air Temperature Start, Stop	60.4, 58.5 F
Ground Speed	3.3 MPH
% Relative Humidity Start, Stop	59.9, 61.4
Carrier	WATER
Wind Velocity+Dir. Start	10.8 MPH, N
Application Amount	10 GAL/AC
Wind Velocity+Dir. Stop	9.6 MPH, N
Mix Size	2 L
Wind Velocity+Dir. Max	16.1 MPH, N
Propellant	CO2
Wet Leaves (Y/N)	N, no
Tank Mix (Y/N)	Y, yes
Soil Temperature	53 F
Soil Moisture	GOOD
% Cloud Cover	100
Next Moisture Occurred On	May-12-2022
Time to Next Moisture	1 DAY
Moisture 1 Week after Appl.	0.92 IN

*Abbreviations: PRE, preemergence; SPTRMO, tractor mounted sprayer; DRIRED, drift reduction