Dry pea, lentil, and sunflower tolerance to fall-applied 2,4-D and dicamba

The objective of this study was to determine if fall-applied 2,4-D or dicamba will carry over to injure spring planted dry pea, lentil, or sunflower. 2,4-D was applied at 1 and 2 pt, and dicamba was applied at 4 and 8 fl oz. The herbicides were applied September 28, October 13, and October 25, 2017. Dry pea, lentil, and sunflower were planted May 7, 14, and 30, respectively.

Dry pea and sunflower exhibited no visible injury symptoms. Lentil was injured by 2,4-D at 2 pt and both dicamba rates. Lentil injury also tended to increase with later applications. No injury symptoms were observed with lentil following 2,4-D at 1 pt.

Title. Dry pea, lentil, and sunflower tolerance to fall-applied 2,4-D and dicamba. (1807)

			Density			Height					
			Dry pea	Sunflower	Lentil	Dry pea	Sunflower	Lentil	Lentil Injury		
Treatment	Rate	Timing		Jun-22			Jul-24		Jun-12	Jun-27	Aug-9
			----------m of row----------			----------cm----------			----------%----------		
Untreated			10.8	4.3	21.1	64.9	68.7	31.6	0	0	0
2,4-D-ester	1 pt	Sep-28	9.3	5.0	17.1	65.5	78.4	35.3	0	0	0
2,4-D-ester	1 pt	Oct-13	10.7	4.4	13.9	62.5	81.8	34.1	0	0	0
2,4-D-ester	1 pt	Oct-25	9.2	4.2	14.5	67.4	77.0	32.7	0	0	0
2,4-D-ester	2 pt	Sep-28	11.6	5.0	14.2	59.0	80.8	31.1	0	0	15
2,4-D-ester	2 pt	Oct-13	10.7	5.5	9.6	60.6	92.8	30.2	0	0	13
2,4-D-ester	2 pt	Oct-25	10.0	4.0	14.4	66.3	86.6	31.7	0	0	12
Dicamba	4 oz	Sep-28	11.7	4.1	13.6	61.4	73.3	32.1	0	0	15
Dicamba	4 oz	Oct-13	9.3	4.3	8.8	63.2	76.1	31.8	0	0	28
Dicamba	4 oz	Oct-25	10.1	4.8	9.3	64.4	89.6	30.7	0	0	40
Dicamba	8 oz	Sep-28	10.9	6.0	7.8	66.4	81.9	31.1	0	0	42
Dicamba	8 oz	Oct-13	10.3	4.4	5.3	67.3	85.4	25.6	0	0	53
Dicamba	8 oz	Oct-25	9.7	4.8	3.8	56.0	86.5	24.9	0	0	75
LSD (0.05)			NS	NS	6.4	NS	NS	4.4	NS	NS	18.3