Red Clover Desiccation Trial - 2010

Purpose: To evaluate and compare the effectiveness of AIM 2 EC and AIM 2 EC + Rely to Reglone as a preharvest desiccant in red clover grown for seed.

Procedure: A trial site was established in a commercial field of red clover near North Plains, OR on 9/24/2010. Plot size was 13.5 ft by 21 ft. Each treatment was replicated four times. The AIM and Rely treatments were applied with a CO2 plot sprayer using a boom with 4, 8003 flat fan nozzles @ 30 psi and a spray volume of 20gals/ac. Reglone was applied to the entire field, except the test site, on 9/24, by the grower/cooperator. The treatments were as follows:

1) Untreated Check
2) AIM 2EC @ 1 oz/ac
3) AIM 2EC @ 2 oz/ac
4) AIM 2EC @ 1 oz/ac + Rely 200 @ 29 oz/ac.
5) Reglone @ 2 pts/ac (grower applied).

* Crop Oil Concentrate surfactant was added to all treatments @ 1% v/v.

Treatments were observed and evaluated on 9/27, @ 3 days after application (DAT), and on 9/25, @ 5 DAT. Desiccation was rated on a scale from 0 to 10, where 0 = no effect, and 10 = entire plant desiccated.

Results: On 9/27, @ 3 DAT. Rating 0 to 10.

Rating where 0 = no effect, and 10 = complete desiccation

Treatment	Rep 1	Rep 2	Rep 3	Rep 4	Total	Ave.
1)	0	0	0	0	0	0
2)	0	0	0	0.5	0.5	0.13
3)	0.5	0.3	0.4	0.5	1.7	0.43
4)	0.8	0.5	0.7	0.6	2.6	0.65
5)	9.4	9.5	9.6	9.5	38	9.5

* Note: Four locations in the commercially treated portion of the field served as the 4 replicates for Treatment # 5. In Treatment #4 a slight desiccation effect was noted on leaves only - stems were unaffected. The desiccation effect in Treatment # 5 was similar on both leaves and stems.

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Results: On 9/29, @ 5 DAT. Rating 0 to 10.

Rating where 0 = no effect, and 10 = complete desiccation

Treatment	Rep 1	Rep 2	Rep 3	Rep 4	Total	Ave.
1)	0	0	0	0	0	0
2)	0.5	0.5	0.5	0.5	2.0	0.5
3)	0.8	0.5	0.5	0.6	2.4	0.6
4)	7.0	6.0	6.5	8.0	27.5	6.9
5)	10	10	10	10	40	10

* Note: Leaves on plants in Treatment #4 had become desiccated, but stems were all still green.

Discussion/Conclusion: Preharvest desiccation of red clover grown for seed becomes especially important when weather at crop maturity is cool and wet. Usually, only short intervals of warm, dry, weather are available for swathing and combining, so rapid desiccation (1 to 3 days) is required. Results of this trial indicate little desiccating effect on mature clover from AIM 2EC applied alone. AIM 2EC + Rely is more effective - but slow. Note that appreciable desiccation was not observed in Treatment #4 until 5 days after application and then the stems were still green. However, results showed that Reglone @ 2 pts/ac provided significant desiccation of both leaves and stems within 3 days of application and complete desiccation within 5 days of application.