

Materials and Methods

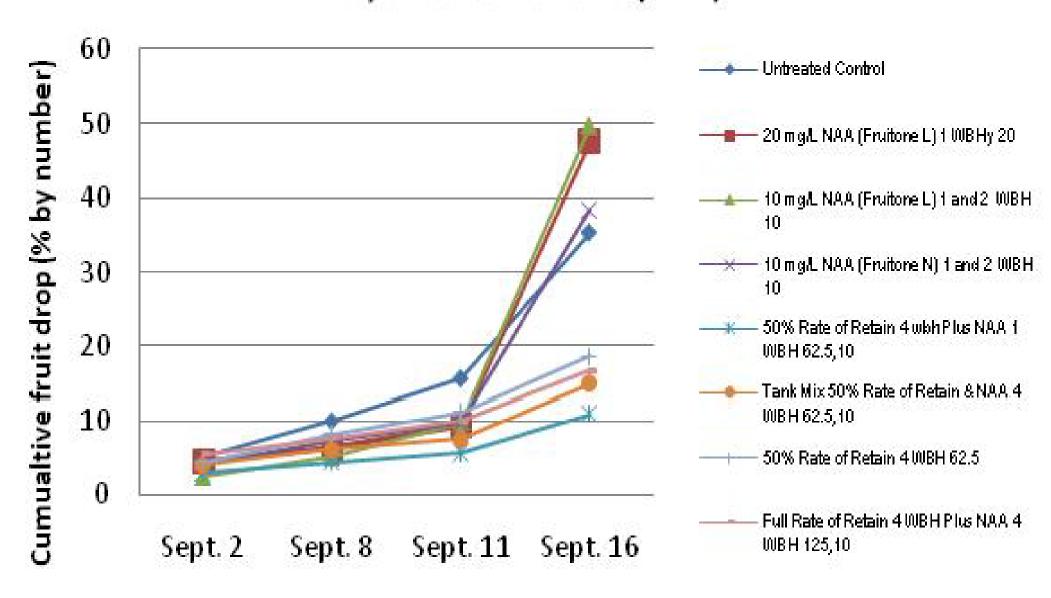
- 15 year old commercial orchard of 'McIntosh'/M.26
- 4.26 m x 6.1 m (385 trees/ha)
- commercial air blast sprayer
- single tree plots at 1379 kPa, 1995 L/ha
- RCBD with six replications and 8 treatments
- Treatments applied 21 August (3-4 WBH) and 2 September (1 WBH)
- Fruit were harvested 9 -16 September



Treatments

- Untreated control
- 2. 20 mg/L NAA (Fruitone L) 1 WBH
- 3. 10 mg/L NAA (Fruitone L®) 1 and 2 WBH
- 4. 10 mg/L NAA (Fruitone N®) 1 and 2 WBH
- 62.5 mg/L AVG (50% rate of Retain) 4 WBH combined with NAA 1 WBH
- 6. Tank mix 62.5 mg/L AVG (50% rate of ReTain) and NAA (Fruitone L®) 4 WBH
- 7. 62.5 mg/L AVG (50% rate of ReTain) applied 4 WBH
- 8. 123 mg/L AVG (50 grams AVG per acre) applied 4 WBH plus NAA (Fruitone L®) applied 4 WBH

Figure 2. Cumulative fruit drop of 'McIntosh' apples in response to Fruitone (NAA)











McIntosh - Fruit Quality

Table 7. Effect of Fruitone N and Fruitone L, alone or in combination with ReTain, on surface blush, starch index, mean fruit weight, soluble soldis, and firmness of fruit harvested 9 Sept and 15 September and stored until 29 September 2008.

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		Percent							
		of surface			Soluble				
		colour red	Starch Index	Mean fruit	solids	Fruit Firmness		Fruit firmness	
Treatment		(%)	(scale 1-8)	wt (g)	(BRIX)	9 Sept (N)		29 Sept (N)	
Untreated Control		78	5.7	156	10.8	62.6	ed	59.7	b
20 mg/L NAA (Fruitone L) 1 WBH ^y	20	83	6.3	163	11.2	60.6	f	52.7	d
10 mg/L NAA (Fruitone L) 1 and 2 WBH	10	87	6.3	157	11.0	61.6	ef	55.2	С
10 mg/L NAA (Fruitone N) 1 and 2 WBH	10	84	6.6	149	11.1	63.1	ecd	55.3	С
50% Rate of Retain 4 wbh Plus NAA 1 WBH	62.5,10	78	5.5	154	10.8	64.8	bc	64.0	а
Tank Mix 50% Rate of Retain & NAA 4 WBH	62.5,10	76	5.9	153	10.7	65.4	ab	63.4	а
50% Rate of Retain 4 WBH	62.5	76	5.4	150	11.0	67.0	а	63.4	а
Full Rate of Retain 4 WBH Plus NAA 4 WBH	125,10	72	5.7	157	10.8	64.5	bcd	63.2	а
Significance ^z		***	***	ns	ns	***		***	
LSD (P=0.05)		5.7	0.39	13.9	0.54	1.9		2.1	
P value		<0.0001	< 0.0001	0.5643	0.5754	< 0.0001		< 0.0001	

z ns, ***, **, *, indicates non significance and statistical significance at P=0.001, P=0.01, and P=0.05, respectively



^yWBH - Weeks Before Harvest

