

APPLE (*Malus domestica* 'Idared')  
Powdery mildew; *Podosphaera leucotricha*  
Scab; *Venturia inaequalis*  
Cedar-apple rust; *Gymnosporangium juniperi-virginianae*  
Brooks fruit spot; *Mycosphaerella pomi*  
Sooty blotch; disease complex  
Flyspeck; *Zygophiala jamaicensis*  
Bitter rot; *Colletotrichum* spp.  
White rot; *Botryosphaeria dothidea*  
Fruit finish

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### **Control of powdery mildew and other diseases by alternating fungicide schedules on Idared apple, 2017.**

Sixteen treatments involving experimental and registered combinations were directed at control of powdery mildew and other early season diseases in an area where SI and QoI fungicide effectiveness has been declining. The test was established as four randomized blocks on 36-yr-old trees using single-tree replications with border rows between treatment rows. Treatment rows had been used as non-treated border rows in 2016 to stabilize mildew inoculum pressure for 2017. Tree-row-volume was determined to require a 400 gal/A dilute base for adequate coverage. Fungicide treatments were applied to both sides of the tree on each application date with a Swanson Model DA-400 airblast sprayer at 100 gal/A as follows: 30 Mar (#1, TC, tight cluster); 11 Apr (#2, Bl, bloom); 27 Apr (#3, PF, petal fall); 1C-8C (1st-8th covers): 9 May, 24 May, 8 Jun, 22 Jun, 11 Jul, 26 Jul, 4 Aug, 16 Aug. Maintenance materials applied to the entire test block with the same equipment included: Altacor, Assail, Banter, Beleaf, Damoil, Delegate, Imidan, Lannate LV, Sivanto, and Voliam Flexi. Inoculum over each Idared test tree included wild blackberry canes with the sooty blotch and flyspeck fungi and bitter rot mummies placed 6 Jun. Other diseases developed from inoculum naturally present in the test area. Foliar data represent averages of counts of ten terminal shoots per tree 22 Jun. Apparent suppressive effect on appearance of primary mildew was rated on six primary mildew shoots per tree, 7 Jun using a scale of 1-10 (1= none; 10= excellent effect). Post-harvest fruit counts are means of 25-fruit samples picked from each of four single-tree reps 18 Sep, first rated 20 Sep and then rated for rots on 11 Oct after 23 days' ambient temperature incubation 55-84°F (mean 71.0°F). Percentage data were converted by the square root arcsin transformation for statistical analysis.

Conidia of the mildew pathogen were present 27 Mar, and there were 39 dry weather "mildew infection days" from 27 Mar until 21 Jun, resulting in moderately heavy infection of non-treated trees (Table 1). Treatments #1-11 were parallel, with the test fungicide applied in applications #1, 3, 5 and 7, and these were alternated with Inspire Super + Manzate in applications #2, 4 and 6. Treatment #12 was similar to #1 except that Merivon was alternated with Rhyme + Koverall. Under these conditions, all treatments gave significant control of percent leaves and fruit and percent leaf and fruit area infected with mildew. Treatments involving Merivon (Trt # 1, 12 and 13) had the strongest suppressive effect on primary mildew. Among the most effective for foliar mildew control were Luna Sensation/Inspire Super (Trt # 3) and Merivon/Rhyme (Trt #12 and 13). Treatments #12 and 13 (Merivon/Rhyme) had significantly fewer leaves infected with mildew than Merivon/Inspire Super (Trt #1). Under moderate cedar-apple rust pressure (Table 2), All treatments that included an SI fungicide (Trts #1-13) gave excellent rust control. Pyraziflumid (Trts #14-16) gave significant rust suppression, but control was not rate responsive. The unidentified "leaf spots" shown in Table 2 were likely related to partially inhibited rust lesions, but did not have any orange coloration to clearly identify them as such, and there were no significant differences among treatment differences. Scab infection was light on leaves, and all treatments gave adequate control on fruit, although there were significant differences among treatments (Table 3). The schedules of treatments #1-13 all ended with Captan + Ziram, and all gave adequate control of bitter rot, sooty blotch and flyspeck, but there were some significant treatment differences based on the 4th cover application 22 Jun. The Pyraziflumid treatments gave strong summer disease suppression, but were generally less effective than those that ended with Captan + Ziram. Post-storage bitter rot incidence was high in non-treated fruit (Table 4), and treatments that ended with Captan + Ziram generally gave good control. Bitter rot incidence was higher when Damoil was included with Fontelis than where Fontelis was applied alone in applications 1, 3, 5, and 7. There were no significant fruit finish effects compared to non-treated fruit (Table 4).

Table 1. Powdery mildew control.

Treatment and rate /A	Timing	Primary mildew effect*	Mildew infection			
			% leaves		% fruit inf.	
			% lvs	area	% fruit	area
0 Non-treated control	---	1.3 h	54 h	32 g	67 c	13 c
1 Merivon 4.18SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	5.1 a	26 c	4 a-c	24 ab	4 ab
2 Sercadis 2.47SC 3.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	3.5 ed	27 cd	4 a-c	20 a	2 a
3 Luna Sensation 500SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	4.0 b-d	17 a	3 ab	23 ab	4 ab
4 Luna Tranquility 4.16SC 11.2 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	3.9 b-d	25 bc	4 a-c	21 ab	3 ab
5 Luna Experience 400SC 10 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	3.2 d-g	31 c-e	5 cd	36 ab	5 b
6 Aprovia 0.83EC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	3.9 b-d	42 fg	8 ef	27 ab	6 b
7 A15457 200SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	2.8 e-g	44 fg	9 f	30 ab	5 ab
8 A19649 200SC 2.74 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	3.3 d-f	37 e-g	6 de	40 ab	6 b
9 A19649 200SC 2.74 fl oz + Captan 2.5 lb Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	3.3 d-f	41 fg	6 de	19 a	2 a
10 Fontelis 1.67SC 1pt Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	3.2 d-g	37 e-g	6 de	41 ab	5 ab
11 Fontelis 1.67SC 1pt + Damoil 1 qt Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	3.7 c-e	35 d-f	5 cd	31 ab	4 ab
12 Merivon 4.18SC 5.5 fl oz Rhyme 2.08SC 6.5 fl oz+ Koverall 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	4.8 ab	19 a	3 a	27 ab	4 ab
13 Merivon 4.18SC 5.5 fl oz + Koverall 3 lb Rhyme 2.08SC 6.5 fl oz+ Koverall 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	4.6 a-c	18 ab	3 ab	26 ab	4 ab
14 Pyraziflumid 20SC 27.5 ml + Induce 1 pt	TC-8C	2.3 gh	40 fg	8 ef	34 ab	5 ab
15 Pyraziflumid 20SC 55 ml + Induce 1 pt	TC-8C	2.4 fg	31 c-e	5 cd	45 bc	7 b
16 Pyraziflumid 20SC 82.5 ml + Induce 1 pt	TC-8C	3.2 d-g	35 e-g	4 b-d	31 ab	5 b

Mean separation by Waller-Duncan K-ratio t-test (p=0.05). Four reps; 10 shoots per tree rated 22 Jun, or harvest counts of 25 fruit per tree rated 20 Sep. Test rows were non-treated in 2016 to stabilize mildew inoculum pressure for 2017.

Applied airblast at 100 gpa to both sides of the row on each application date.

\* Suppressive effect rated on six primary mildew shoots/tree 7 Jun, scale: 1-10 (1= none; 10= excellent effect).

Treatment dates: 30 Mar (#1, TC, tight cluster); 11 Apr (#2, Bl, bloom); 27 Apr (#3, PF, petal fall); 1C-8C (1st-8th covers):

9 May, 24 May, 8 Jun, 22 Jun, 11 Jul, 26 Jul, 4 Aug, 16 Aug.

Table 2. Control of cedar-apple rust and “leaf spots”.

Treatment and rate/A	App. #	Cedar-apple rust		“Leaf spots”**	
		% leaves infected	lesions / leaf	% leaves affected	lesions / leaf
0 Non-treated control	---	12 f	0.38 c	6 a	0.1 a
1 Merivon 4.18SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	1 ab	0.01 a	12 a	0.2 a
2 Sercadis 3.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0 a	0 a	11 a	0.2 a
3 Luna Sensation 500SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	<1 ab	<0.01 a	10 a	0.2 a
4 Luna Tranquility 4.16SC 11.2 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	<1 bc	0.01 a	6 a	0.1 a
5 Luna Experience 400SC 10 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	<1 ab	0.01 a	8 a	0.1 a
6 Aprovia 0.83EC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0 a	0 a	10 a	0.1 a
7 A15457 200SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0 a	0 a	9 a	0.2 a
8 A19649 200SC 2.74 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	1 ab	0.01 a	8 a	0.1 a
9 A19649 200SC 2.74 fl oz + Captan 2.5 lb Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	<1 ab	0.01 a	6 a	0.1 a
10 Fontelis 1.67SC 1pt Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	<1 ab	<0.01 a	11 a	0.2 a
11 Fontelis 1.67SC 1pt + Damoil 1 qt Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	1 a-c	0.01 a	12 a	0.2 a
12 Merivon 4.18SC 5.5 fl oz Rhyme 6.5 fl oz+ Koverall 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0 a	0 a	8 a	0.2 a
13 Merivon 4.18SC 5.5 fl oz + Koverall 3 lb Rhyme 6.5 fl oz+ Koverall 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0 a	0 a	12 a	0.2 a
14 Pyraziflumid 27.5 ml + Induce 1 pt	TC-8C	2 cd	0.04 a	10 a	0.2 a
15 Pyraziflumid 55 ml + Induce 1 pt	TC-8C	7 e	0.16 b	11 a	0.1 a
16 Pyraziflumid 82.5 ml + Induce 1 pt	TC-8C	6 de	0.12 b	9 a	0.2 a

Mean separation by Waller-Duncan K-ratio t-test (p=0.05). Four reps; 10 shoots per tree rated 22 Jun.

\* “Leaf spots” refers to an unidentified symptom, which could be inhibited c-a rust, frog-eye leaf spot or leaf injury.

Treatment dates: 30 Mar (#1, TC); 11 Apr (#2, Bl); 27 Apr (#3, PF); 1C-8C (1st-8th covers): 9 May, 24 May, 8 Jun, 22 Jun, 11 Jul, 26 Jul, 4 Aug, 16 Aug.

Table 3. Scab and summer disease control.

Treatment and rate /A	Timing	Scab, % lvs inf.	% fruit infected at harvest					
			Scab	Bitter rot	Brooks spot	Sooty blotch	Fly speck	
0 Non-treated control	---	0.9 a	16d	39e	3 a	87 g	52 e	
1 Merivon 4.18SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.1 a	0 a		1 ab	0 a	3 ab	0 a
2 Sercadis 3.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.3 a	2 ab		4 a-d	0 a	4 a-c	1 ab
3 Luna Sensation 500SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.2 a	2 ab		1 ab	1 a	7 a-c	0 a
4 Luna Tranquility 4.16SC 11.2 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0 a	2 ab		2 ab	0 a	2 ab	0 a
5 Luna Experience 400SC 10 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.3 a	0 a		2 ab	0 a	1 a	0 a
6 Aprovia 0.83EC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.2 a	0 a		5 b-d	0 a	5 a-c	0 a
7 A15457 200SC 5.5 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.2 a	0 a		1 ab	0 a	13 cd	0 a
8 A19649 200SC 2.74 fl oz Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.4 a	0 a		0 a	0 a	1 a	0 a
9 A19649 200SC 2.74 fl oz + Captan 2.5 lb Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0 a	5 c		2 a-c	0 a	2 ab	0 a
10 Fontelis 1.67SC 1pt Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.3 a	3 bc		0 a	1 a	4 a-c	1 ab
11 Fontelis 1.67SC 1pt + Damoil 1 qt Inspire Super 12 fl oz + Manzate 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.1 a	0 a		5 a-d	0 a	3 a-c	1 ab
12 Merivon 4.18SC 5.5 fl oz Rhyme 6.5 fl oz+ Koverall 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.3 a	1 ab		2 ab	0 a	7 bc	2 a-c
13 Merivon 4.18SC 5.5 fl oz + Koverall 3 lb Rhyme 6.5 fl oz+ Koverall 75DF 3 lb Captan 80WDG 30 oz + Ziram 76DF 3 lb	#1,3,5,7 #2,4,6 5C-8C	0.2 a	1 ab		1 ab	1 a	3 a-c	1 ab
14 Pyraziflumid 27.5 ml + Induce 1 pt	TC-8C	0.1 a	5 c		8 cd	0 a	39 f	18 d
15 Pyraziflumid 55 ml + Induce 1 pt	TC-8C	0.1 a	1 ab		14 d	1 a	23 de	5 bc
16 Pyraziflumid 82.5 ml + Induce 1 pt	TC-8C	0.8 a	1 ab		12 d	0 a	28 ef	7 c

Mean separation by Waller-Duncan K-ratio t-test (p=0.05). Four reps; 10 shoots per tree rated 22 Jun, or harvest counts of 25 fruit per tree rated 20 Sep.

Treatment dates: 30 Mar (#1, TC); 11 Apr (#2, Bl); 27 Apr (#3, PF); 1C-8C (1st-8th covers): 9 May, 24 May, 8 Jun, 22 Jun, 11 Jul, 26 Jul, 4 Aug, 16 Aug.

Table 4. Postharvest storage rots and fruit finish.

Treatment and rate/A	Timing	% post-storage rots*				Fruit finish**	
		Any rot	Bitter rot	White rot	Alternaria rot	Russet	Opal-escence
0 Non-treated control	---	67 e	64 e	8 a	0 a	1.5 a	1.2 a
1 Merivon 4.18SC 5.5 fl oz	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.4 a	0.8 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	7 a	5 ab	1 a	0 a		
2 Sercadis 3.5 fl oz	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.4 a	0.9 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	6 a	5 ab	1 a	0 a		
3 Luna Sensation 500SC 5.5 fl oz	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.4 a	0.9 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	9 ab	7 ab	3 a	0 a		
4 Luna Tranquility 4.16SC 11.2 fl oz	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.2 a	1.0 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	11 ab	5 a	5 a	1 a		
5 Luna Experience 400SC 10 fl oz	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.5 a	0.9 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	10 ab	7 ab	2 a	1 a		
6 Aprovia 0.83EC 5.5 fl oz	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.3 a	1.1 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	11 ab	11 a-c	0 a	0 a		
7 A15457 200SC 5.5 fl oz	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.1 a	0.8 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	6 ab	4 a	2 a	0 a		
8 A19649 200SC 2.74 fl oz	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.4 a	0.9 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	9 ab	6 ab	3 a	0 a		
9 A19649 200SC 2.74 fl oz + Captan 2.5 lb	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.3 a	0.8 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	9 ab	4 a	3 a	2 a		
10 Fontelis 1.67SC 1pt	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.2 a	0.8 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	7 a	3 a	3 a	1 a		
11 Fontelis 1.67SC 1pt + Damoil 1 qt	#1,3,5,7						
Inspire Super 12 fl oz + Manzate 75DF 3 lb	#2,4,6					1.5 a	1.2 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	19 bc	15 bc	4 a	0 a		
12 Merivon 4.18SC 5.5 fl oz	#1,3,5,7						
Rhyme 6.5 fl oz+ Koverall 75DF 3 lb	#2,4,6					1.4 a	0.9 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	5 a	4 a	1 a	0 a		
13 Merivon 4.18SC 5.5 fl oz + Koverall 3 lb	#1,3,5,7						
Rhyme 6.5 fl oz+ Koverall 75DF 3 lb	#2,4,6					1.3 a	0.9 a
Captan 80WDG 30 oz + Ziram 76DF 3 lb	5C-8C	5 a	3 a	2 a	0 a		
14 Pyraziflumid 27.5 ml + Induce 1 pt	TC-8C	28 cd	23 cd	5 a	0 a	1.5 a	1.0 a
15 Pyraziflumid 55 ml + Induce 1 pt	TC-8C	37 d	35 d	3 a	1 a	1.2 a	0.9 a
16 Pyraziflumid 82.5 ml + Induce 1 pt	TC-8C	35 cd	34 d	1 a	0 a	1.1 a	0.9 a

Mean separation by Waller-Duncan K-ratio t-test (p=0.05). Four replications.

\* Means of 25 fruit per replication harvested 18 Sep; rated for fruit finish 20 Sep and then rated for rots 11 Oct after 23 days' ambient temperature at 55-84°F (mean 71.0°F). Treatment dates: 30 Mar (#1, TC); 11 Apr (#2, BI); 27 Apr (#3, PF); 1C-8C (1st-8th covers): 9 May, 24 May, 8 Jun, 22 Jun, 11 Jul, 26 Jul, 4 Aug, 16 Aug.

\*\* Fruit finish rated on a scale of 0-5 (0=perfect finish; 5=severe opalescence or russet, presumed not to be mildew).