



Parka™
POWERED BY **SureSeal™**
BIOFILM TECHNOLOGY

Improves Fruit Quality on Rainier Cherries

EVALUATION OF PARKA™ ON FRUIT QUALITY

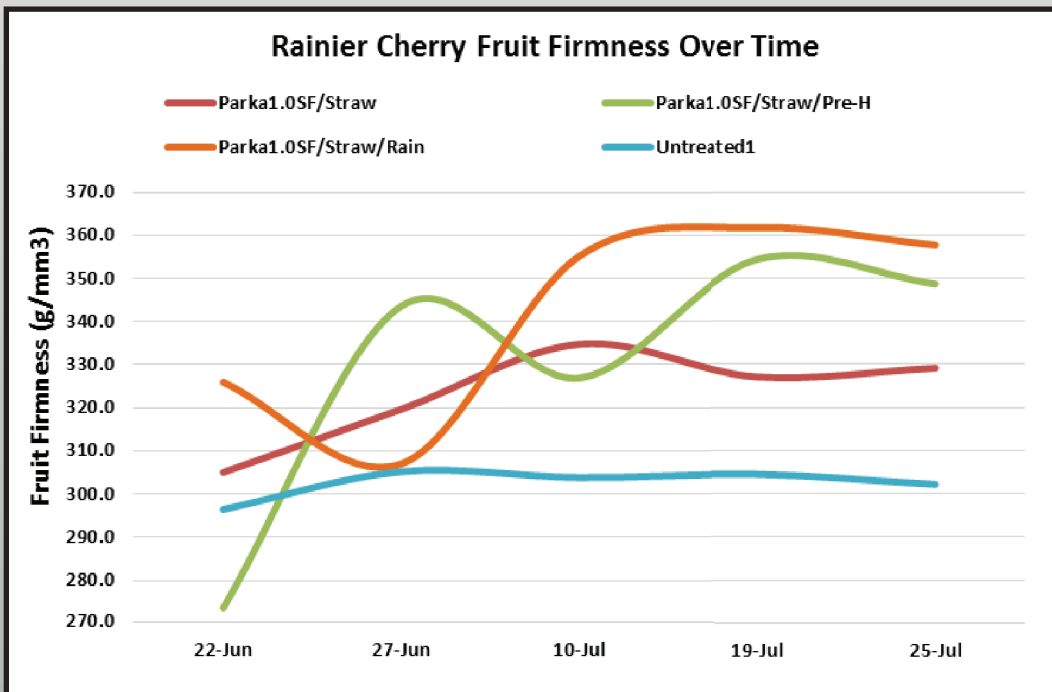
Methods: An experimental plot was established in 2017 in Zillah, Washington, in an established Rainier cherry planting. Trees were on G7 rootstock in a medium density planting (14x10 ft row spacing). One replicate of each of 4 treatments were setup, including an untreated control (UTC) plot, with 8 trees per treatment plot. Parka plots and an untreated control plot was setup on the west side of the block. All 4 Parka plots were sprayed at shuck fall and straw color stages (Table 1). Treatment #2 received additional spray prior to rain event. Treatment #4 received additional spray 1 week pre-harvest. Applications were made by a Rear's Pak-Blast sprayer (28" fan) connected to a Kubota M8540 tractor, which delivered approximately 200 gallons per acre of spray solution.

Table 1

Tr#	Color	Timing	Product	Rate	Unit
1	G	-	Untreated	-	-
2	Y	SF, Straw, if rain	Parka	1	Gal
3	B	SF, Straw	Parka	1	Gal
4	R	SF, Straw, PreH	Parka	1	Gal

Data Collection: Fruit samples were collected at harvest on 22-Jun. Samples were randomly collected throughout the plot from both sides of the tree at between 4 and 12 feet height (using orchard ladder). There was one full gallon Ziploc bag of cherry collected per treatment (approx. 200 fruit). Cherry fruit finish was evaluated by inspecting fruit samples for signs of spray injuries or scruff marks. Fruit samples were placed in laboratory refrigerator at 34°F the same day of sample collection. Fruit was allowed to cool to the touch before tested for firmness. Cherry row size and firmness were measured using the FirmTech 2 fruit firmness tester (by BioWorks, Inc

- Wamego, KS). Twenty-five fruit from each treatment was tested on 22-Jun, 27-Jun, 10-Jul, 19-Jul and 25-Jul. Brix was measure with a hand-held brix refractometer on 22-Jun and 27-Jun. (Table 2)



See Reverse Side For Grand Average of Cherry Firmness & Brix Data

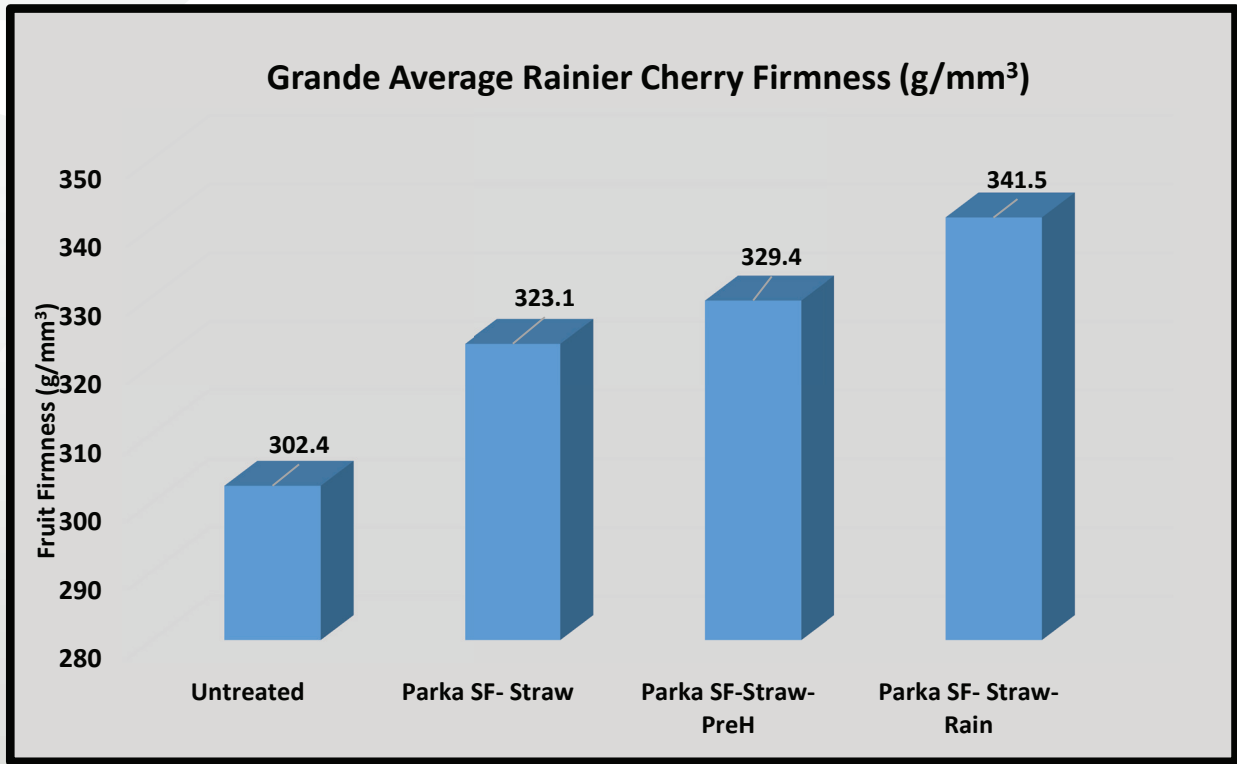


Table 2. Rainier fruit brix for treatments on 22- Jun and 27- Jun

Treatment	Brix (%)	
	22-Jun	27-Jun
Parka SF/Straw	18.4	18.35
(s.e.)	(0.1)	(0.5)
Parka SF/Straw/Pre-H	18.6	19
(s.e.)	(0.7)	(0.9)
Parka SF/Straw/Rain	21.1	21.25
(s.e.)	(0.3)	(0.3)
Untreated ¹	17.45	18.4
(s.e.)	(0.6)	(0.5)

Technical Bulletin is based on report from demonstration trial conducted by Wilbur Ellis in Zillah WA, June 2017

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