



Supplementary Material

The Influence of 1-Methylcyclopropene on the Quality Parameters of Idared Apples after 8 Weeks of Storage Simulating Long-Distance Transportation

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Supplementary Table 1. The observed values of ethylene production $[\mu L \cdot kg^{-1} \cdot h^{-1}]$ for Idared apples after 8 weeks of simulated transportation, for the sub-groups subjected to various postharvest treatments, storage duration and duration of distribution.

Type of Treatment		Days of Simulated Distribution			
		0	5	10	15
		0 Weeks of Stor	rage		
	Mean±SD	9.37±2.225	15.12±3.739a	15.73±3.450a	-
Control	Median	9.73ª	16.45	17.48	
	(25th-75th)	(8.185-10.749)	(14.362-16.988)	(14.362-17.586)	
1-MCP alone 1-MCP with MAP	Mean±SD	4.64±5.450	4.47 ± 4.164 ^b	8.79±7.785ab	-
	Median	0.74^{ab^*}	4.65	11.16	
	(25th-75th)	(0.737-10.096)	(0.397-6.974)	(0.538-15.438)	
	Mean±SD	0.51±0.087	0.50±0.110 ^b	0.52±0.175 ^b	-
	Median	0.56^{b}	0.44	0.45	
	(25th-75th)	(0.440 - 0.563)	(0.435 - 0.549)	(0.394 - 0.647)	
<i>p</i> -Value		0.0162	< 0.0001	0.0014	-
•		10 Weeks of Sto	rage		
	Mean±SD	6.85±1.201a	13.88±6.523a	14.90±4.415a	12.85±4.761
Control	Median	6.89a	12.56	14.44	10.33
	(25th-75th)	(5.968-7.982)	(12.465-12.747)	(12.788-16.324)	(10.203-15.3
	Mean±SD	0.08±0.027b*	0.19±0.139b	0.66±0.287b	3.45±2.971
1-MCP alone	Median	0.07b*	0.13	0.56	3.69
	(25th-75th)	(0.065 - 0.078)	(0.078 - 0.308)	(0.512 - 0.680)	(0.524-5.69
	Mean±SD	0.24±0.196ab	0.43±0.024 ^b	6.12±5.220b	10.21±3.109
1-MCP with MAP	Median	0.13^{ab}	0.43	3.75	10.97
	(25th-75th)	(0.128 - 0.342)	(0.422 - 0.434)	(3.264-8.831)	(7.874-11.07
<i>p</i> -Value		0.0031	0.0001	0.0004	0.0049
•		20 Weeks of Sto	rage		
	Mean±SD	9.50±2.044a	16.14±2.298a	19.65±4.620a	15.98±2.87
Control	Median	10.14	16.00	19.71	15.77
	(25th-75th)	(7.976-11.058)	(15.643-17.143)	(16.350-23.020)	(13.992-18.8
	Mean±SD	1.01±0.907b	4.46±3.224 ^b	10.13±6.358 ^b	13.44±6.124
1-MCP alone	Median	0.67	4.19	11.26	15.07
	(25th-75th)	(0.416-1.053)	(3.010-6.483)	(7.683-13.181)	(13.156-15.83
1-MCP with MAP	Mean±SD	0.65±0.251b	2.85±2.109b	11.90±3.815ab	13.97±3.682
	Median	0.53	2.39	12.44	15.82
	(25th-75th)	(0.483 - 0.681)	(1.420-3.407)	(8.607-14.683)	(11.190-15.9
p-Value	. ,	<0.0001	<0.0001	0.0258	0.6460

Agronomy **2021**, 11, 528 2 of 2

* distribution different than normal (verified by Shapiro–Wilk test $-p \le 0.05$); 1-MCP—Methylcyclopropene; MAP—Modified Atmosphere Packaging; differing superscript letters indicate significance of differences between compared values within various treatments storage duration and duration of distribution.