

CHAPTER 4A – STREAM TEMPERATURE AND COVER ADDENDUM

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TABLE OF CONTENTS

List of Tables	4A 1
List of Figures	4A 2
List of Appendix Tables.....	4A 2
4A-1. Introduction.....	4A 2
4A-2. Results.....	4A 3
4A-2.1. Canopy Closure	4A 3
4A-2.2. Extent of Surface Water	4A 7
4A-2.3. Stream Temperature	4A 8
4A-3. Conclusions.....	4A 8
4A-4. Appendix Tables	4A 12

LIST OF TABLES

Table 4A-1. Mean canopy closure values by site and year	4A-4
Table 4A-2. Type 3 Fixed Effects of the GLMM ANOVA for canopy cover, wetted extent, and maximum seven-day average temperature response	4A-5
Table 4A-3. Post-harvest change in canopy closure in the treatment sites relative to the reference sites by year.....	4A-5
Table 4A-4. Least squares means of canopy closure presented as percent	4A-5
Table 4A-5. Percentage of the channel length with surface water by site and year	4A-7
Table 4A-6. Post-harvest change in wetted extent in the treatment sites relative to the reference sites by year.....	4A-7

Table 4A-7. Seven-day average daily maximum temperature for July–August 4A-9

Table 4A-8. Pairwise comparisons of the seven-day average temperature response in each post-harvest year relative to the pre-harvest period 4A-11

LIST OF FIGURES

Figure 4A-1. Canopy closure by buffer category and treatment year 4A-4

Figure 4A-2. Canopy closure plotted for each location over time 4A-6

Figure 4A-3. Highest annual seven-day average daily maximum stream temperature for reference sites and treatment sites..... 4A-10

Figure 4A-4. Post-harvest change in the seven-day average temperature response by year.
..... 4A-11

LIST OF APPENDIX TABLES

Appendix Table 4A-1. Mean monthly maximum daily temperatures at the F/N junction ... 4A-12

Appendix Table 4A-2. Mean monthly temperature response in the post-harvest period at each location in each treatment site..... 4A-15

4A-1. INTRODUCTION

The purpose of this addendum is to update the Soft Rock Study report (Ehinger *et al.* 2021) with the stream temperature and riparian cover data collected since fall 2017. Data collection for the Soft Rock Study began in 2012. The report included data collected through summer 2017 (three years post-harvest at most sites). All data collection stopped in fall 2020 when two reference sites were harvested, leaving us unable to reliably calculate a temperature response at the study’s treatment sites.

Below we updated the pertinent tables and figures from the Soft Rock Study report with the 2017 to 2020 data to show the trajectory of canopy closure and stream temperature response over the

entire post-harvest period. The sampling and analysis methods used to derive the tables and figures below were identical to those used in the report and so we do not present them here.

4A-2. RESULTS

4A-2.1. CANOPY CLOSURE

Initially, all sites were highly-shaded. Canopy closure in the reference (REF) sites and preharvest in the treatment (TRT) sites was 94% or greater (**Table 4A-1**). Post-harvest reductions in canopy closure at individual sites reflected the proportion of stream buffered with the greatest change in TRT1 (53% buffered) and the least in TRT7 (100% buffered). At the stream reach scale, post-harvest decline in canopy closure was inversely related to buffer width. The change was least where buffers exceeded 75 feet in width and greatest in unbuffered reaches (**Figure 4A-1**). After harvest mean canopy closure reached a minimum at Post 2 and attained pre-harvest levels by Post 6 only in reaches with buffers greater than 75 feet in width.

The results of the analysis of variance of canopy closure (**Table 4A-2**) indicated that canopy closure in the TRT sites was still less than pre-harvest levels at Post 6 (**Table 4A-3**). The analysis was performed on data transformed to beta space and so the estimates in Table 4A-3 are difficult to interpret in terms of percent cover. The least squares means estimates of canopy closure, transformed back into percent cover, indicated that canopy closure in the TRT sites at Post 6 is approximately 19 percentage points less than in pre-harvest (**Table 4A-4**). The decline in canopy closure after Post 1 was largely due to windthrow. This was especially noticeable in TRT1, but also in TRT2, TRT4, TRT5, and TRT6 to a lesser extent (**Table 4A-1; Figure 4A-2**).

Table 4A-1. Mean canopy closure values (%) by site and year. Shaded values were measured post-harvest. TRT1 and TRT7 were inaccessible during harvest in summer 2014. (See **Table 4-2** in the original report.)

Year	REF1	REF2	REF3	TRT1	TRT2	TRT3	TRT4	TRT5	TRT6	TRT7
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TYPE N BUFFER EFFECTIVENESS ON MARINE SEDIMENTARY LITHOLOGIES

2012	98	96	97		99	98	97	94	95	
2013	95	95	97		98	97	94	94	95	
2014	95	95	96		95	55	94	94	94	
2015	97	97	99	36	72	56	79	89	84	92
2016	97	96	97	27	59	58	71	81	76	87
2017	97	96	98	29	59	53	75	85	79	91
2018	97	98	97	38	61	65	84	88	88	92
2019	99	98	98	41	65	71	87	92	94	96
2020	98	98	98	49	65	71	90	93	82	94
				95						95
				94						95

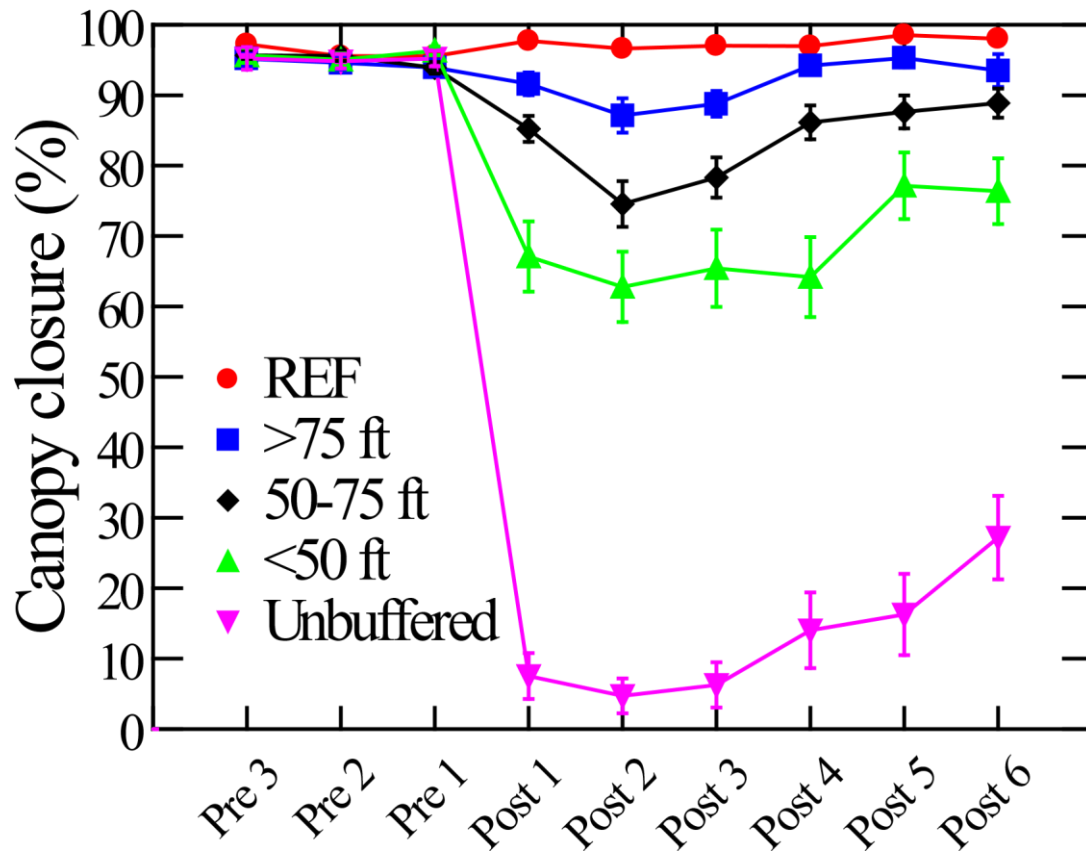


Figure 4A-1. Canopy closure by buffer category and treatment year. Points are mean (± 1 standard error) canopy closure of all measurement locations within reference (REF) sites (red) and within reaches with average buffer width greater than 75 feet (blue), 50–75 feet (black), less than 50 feet (green), and no buffer (magenta). (See **Figure 4-2** in the original report.)

Table 4A-2. Type 3 Fixed Effects of the GLMM ANOVA for canopy cover, wetted extent, and maximum seven-day average temperature response (7DTR). Num DF = numerator degrees of freedom; Den DF = denominator degrees of freedom. (See **Table 4-3** in the original report.)

Metric	Effect	Num DF	Den DF	F-value	P-value
Canopy Closure	Treatment	1	65	17.18	0.0001
	Period	6	65	4.92	0.0003
	Treatment \times Period	6	65	9.21	<0.0001
Wetted Extent	Treatment	1	60	0.01	0.0013
	Period	6	60	7.22	<0.0001
	Treatment \times Period	6	60	5.02	0.0003
7DTR	Period	6	46	5.27	0.0003

Table 4A-3. Post-harvest change in canopy closure in the treatment sites relative to the reference sites by year. Estimates are presented in Beta-space. P-values were not adjusted for multiple comparisons. SE = standard error; DF = degrees of freedom; C.I. = confidence intervals. (See **Table 4-4** in the original report.)

Year	Estimate	SE	DF	t-value	P-value	95% C.I.	
Post 1	-2.57	0.58	65	-4.41	<0.0001	-3.73	-1.41
Post 2	-2.43	0.50	65	-4.90	<0.0001	-3.42	-1.44
Post 3	-2.54	0.53	65	-4.83	<0.0001	-3.60	-1.49
Post 4	-2.18	0.52	65	-4.20	<0.0001	-3.21	-1.14
Post 5	-2.66	0.68	65	-3.95	0.0002	-4.01	-1.32
Post 6	-2.38	0.60	65	-3.95	0.0002	-3.58	-1.18

Table 4A-4. Least squares means of canopy closure presented as percent. LCL = Lower 95% confidence limit; UCL = Upper 95% confidence limit. (See **Table 4-5** in the original report.)

Year	Reference			Treatment		
	Mean	LCL	UCL	Mean	LCL	UCL
Pre	96	90	98	95	95	99

Post 1	98	92	99	73	63	85
Post 2	97	90	99	66	54	79
Post 3	97	91	99	67	56	80
Post 4	97	90	99	74	64	85
Post 5	99	94	99	78	71	89
Post 6	98	93	99	78	70	89

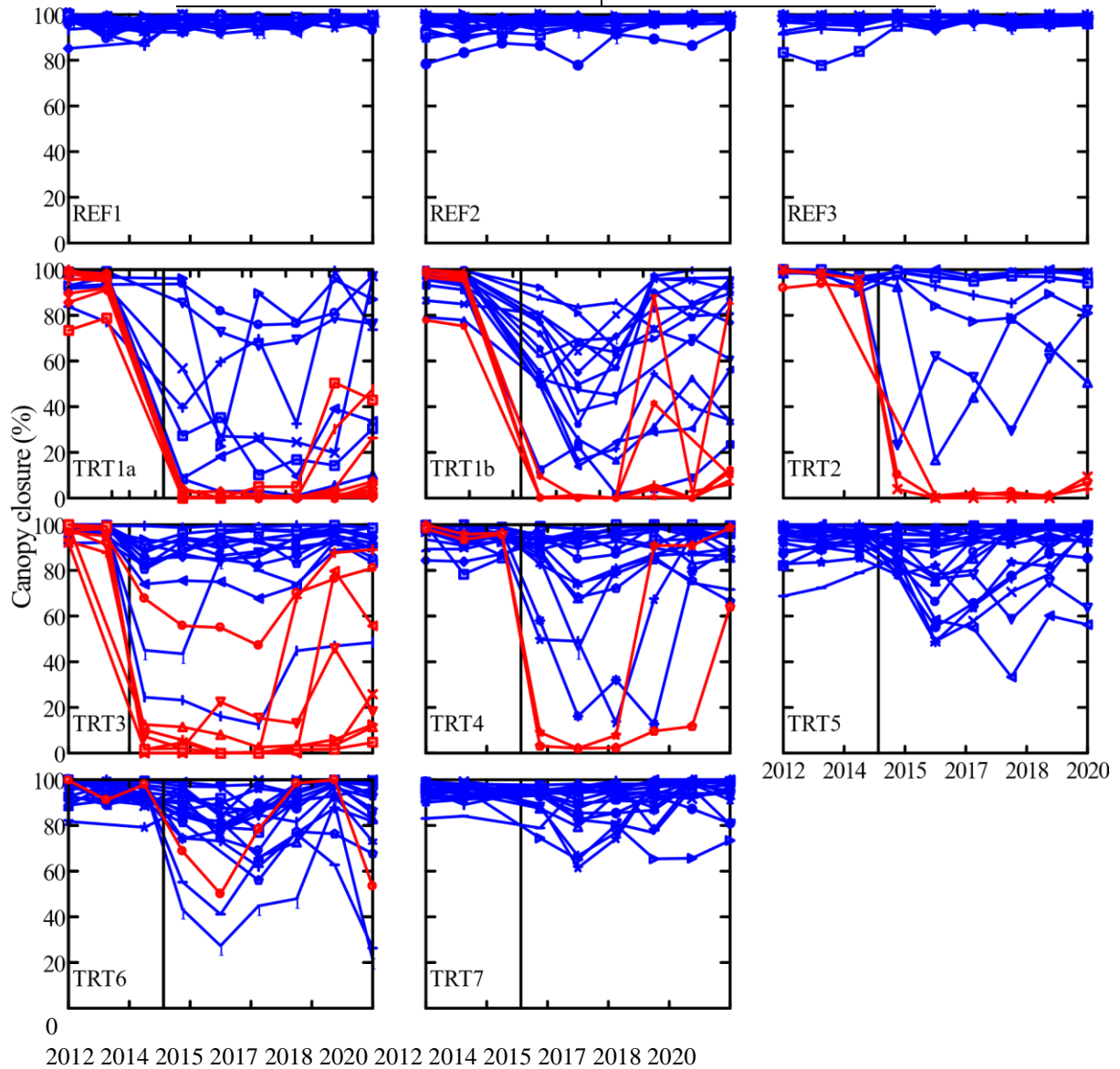


Figure 4A-2. Canopy closure plotted for each location over time. Blue indicates the location was within a buffered reach; red indicates no buffer. Vertical solid line separates pre-harvest from post-harvest measurements. (See **Figure 4-3** in the original report.)

4A-2.2. EXTENT OF SURFACE WATER

The wetted extent, the proportion of the Type Np channel with surface water, ranged from 62 to 99% pre-harvest. Precipitation was very low in mid-to-late summer of 2015 and 2016 and the wetted extent in the REF sites dropped from 14 to 40 percentage points. In contrast, wetted extent in the TRT sites either remained stable or decreased up to 20 percentage points (**Table 4A-5**).

We reran the analysis of variance (**Table 4A-2**) of wetted extent to include all years through 2020 and found the wetted extent of the TRT sites was higher in Post 1 and Post 2 relative to the REF treatment, but that by Post 3 and through Post 6 there was no detectable difference (**Table 4A-6**).

Table 4A-5. Percentage of the channel length with surface water (wetted extent) by site and year. There were no surveys in 2014 at TRT1 and TRT7. REF3 was harvested prior to the 2020 survey. Shaded cells indicate post-harvest. (See **Table 4-12** in the original report.)

	Site	2013	2014	2015	2016	2017	2018	2019	2020	
	REF1	92	90	76	81	87	85	80	86	
	REF2	87		54	69	88	72	81		84
89	REF3	93		47	64	88	62	85		
	TRT1	99		95	97	98	90	77	92	81
	TRT2	65	62	63	67	67	59	64	51	
	TRT3	79	87	70	83	74	68	76	59	
	TRT4	75	65	70	89	83	53	63	56	
	TRT5	72	66	61	77	71	71	75	69	
	TRT6	92	90	77	78	85	75	77	85	
	TRT7	91		71	98	82	77	93	95	

Table 4A-6. Post-harvest change in wetted extent in the treatment sites relative to the reference sites by year. Estimates and confidence intervals are in Beta-space. P-values were not adjusted for multiple comparisons. SE = standard error; DF = degrees of freedom; C.I. = confidence intervals. (See **Table 4-13** in the original report.)

Year	Estimate	SE	DF	t-value	P-value	95% C.I
Post 1	1.24	0.35	60	3.53	0.001	0.54 1.94
Post 2	1.39	0.38	60	3.68	0.001	0.63 2.14
Post 3	0.20	0.41	60	0.50	0.621	-0.62 1.02
Post 4	0.48	0.36	60	1.33	0.190	-0.24 1.21

Post 5	0.06	0.39	60	0.14	0.886	-0.72	0.83
Post 6	-0.27	0.46	60	-0.59	0.559	-1.19	0.65

4A-2.3. STREAM TEMPERATURE

The seven day average daily maximum (7DADM) temperatures in the TRT sites tended to be lower in Post 4 to Post 6 than in the first three years post-harvest (**Table 4A-7; Figure 4A-3**) and the difference between the 7DADM in the TRT and REF sites tended to decrease over the six year post-harvest period suggesting that summer stream temperatures in the TRT sites were decreasing relative to the REF sites. The analysis of variance of the seven day average temperature response (7DTR) confirms this interpretation (**Table 4A-8; Figure 4A-4**). The greatest changes in the 7DTR were in the first two post-harvest years (0.6°C), after which the Δ 7DTR decreased until reaching 0.0°C at Post 5. The consistency of the timing of the peak response across the TRT sites also suggests that the TRT sites were at or near pre-harvest temperature conditions at Post 5.

The immediate post-harvest increase in 7DTR in this study was approximately half of that observed in the 100% and FP treatments in the Hard Rock Study (McIntyre *et al.* 2018, 2021). However, as illustrated in **Figures 4-8** and **4-9** in the Soft Rock Study report, the difference between the two studies is likely due to the application of the Forest Practices rules (e.g., four of the seven Soft Rock sites were more than 90% buffered) rather than a fundamental difference in lithology.

The mean monthly maximum daily temperature was elevated over much of the year in the TRT sites after harvest (**Appendix Table 4A-1**). This is more apparent in the mean monthly temperature response (MMTR) which accounts for natural variability not due to harvest (**Appendix Table 4A-2**). The MMTR was elevated from spring through fall immediately after harvest but by Post 6 was no longer elevated in the summer months at most locations and sites. MMTR remained elevated in the spring and fall months at many locations but was generally less than 1.0°C.

4A-3. CONCLUSIONS

On average, summer stream temperatures had returned to pre-harvest conditions by the fifth year post-harvest, even though canopy closure was still approximately 20 percentage points lower than pre-harvest at Post 6.

Spring and fall temperatures had declined by Post 6 but were still elevated by 1.0°C or less at many locations.

The primary driver of the increase in stream temperature was likely the decrease in canopy closure due to harvest and subsequent windthrow. There was some evidence that other factors such as stream aspect, topography, and hyporheic exchange/wetted extent may have played a role.

Table 4A-7. Seven-day average daily maximum (7DADM) temperature for July–August. For reference (REF) sites, Diff is the difference between that year and the mean 2012 to 2014 values for that site. For the treatment (TRT) sites, Diff is the difference between that year and the average of the pre-harvest values. Blue shading indicates the harvest period and gray shading the post-harvest period. Mean REF is the mean 7DADM. Mean TRT is the mean across all TRT sites except in 2014 when it included only unharvested sites. TRT minus REF is the difference in the mean values for that year. (See **Table 4-16** in the original report.)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	Year
	13.0	12.2	13.2	13.8	13.9	13.6	13.5	13.6	13.5	REF1
				1.0	1.1	0.8	0.7	0.8	0.7	Diff
REF2	14.4	14.2	15.0	15.1	14.8	15.3	14.8	15.0	15.1	
				0.6	0.2	0.7	0.2	0.4	0.6	Diff
REF3	14.3	14.0	14.5	15.2	14.3	15.1	14.4	14.6	14.7	
TRT 1	15.4	15.4	17.1							
Diff				1.3	1.6	0.7	0.			
TRT 2	13.6	13.8								
Diff				14.1	14.1	14.4	13			
TRT 3	13.4	13.8	14.6							
Diff						0.2	0.5	-0.1	-0	
TRT 4	14.3	14.3								
Diff						14.3	14.1	14.1	14	
TRT 5	13.8	13.9	14.9							
Diff						0.7	0.5	0.4	0.	
TRT 6	13.4	13.7								
Diff						15.0	16.1	14.9	14	
TRT 7	12.0	12.1	12.9							
Diff						0.4	1.5	0.3	0.	
TRT 8	13.8	13.9	14.9							
Diff						14.8	14.8	14.6	14	
TRT 9	13.0	13.1	14.9							
Diff						1.0	0.9	0.7	0.	
TRT 10	13.4	13.7								
Diff						14.4	14.1	14.1	13	
TRT 11	13.0	13.7								
Diff						0.7	0.4	0.4	0.	
TRT 12	12.0	12.1	12.9							
Diff						13.3	13.0	12.6	12	
Mea n REF	13.9	13.5	14.3							
								0.6	0.3	0.4
								14.2	14.4	14.

TYPE N BUFFER EFFECTIVENESS ON MARINE SEDIMENTARY LITHOLOGIES

Mea	13.	13.	14.	15.	14.6		14.7		14.6		14.	14.
n	7	9	7	2							2	0
TRT												
TRT				0.5		0.3		0.0		0.4	-	-
minu											0.2	0.4
s												
REF												
							0.9	0.0	0.8	0.1	0.3	
Diff							17.5	16.7	17.0	16.1	15.6	0.4

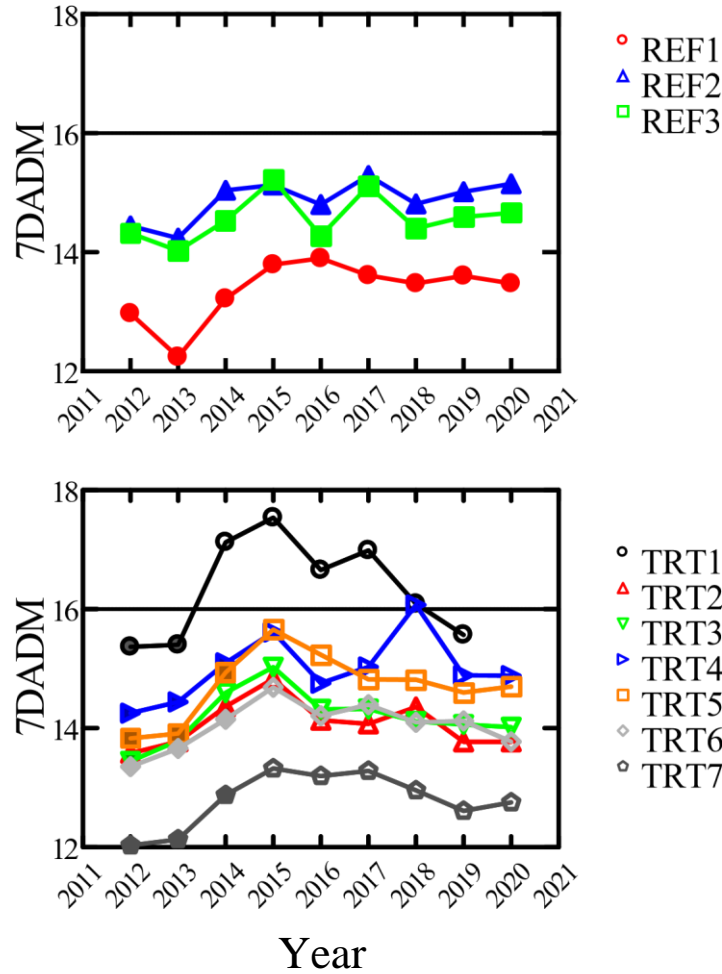


Figure 4A-3. Highest annual seven-day average daily maximum stream temperature (7DADM) for reference (REF) sites (top) and treatment (TRT) sites (bottom).

Table 4A-8. Pairwise comparisons of the seven-day average temperature response (7DTR) in each post-harvest year relative to the pre-harvest period. P-values were not adjusted for multiple comparisons. SE = standard error; DF = degrees of freedom; C.I. = confidence intervals. (See **Table 4-15** in the original report.)

Year	Estimate	SE	DF	t-value	P-value	95% C.I
Post 1	0.6	0.15	45.9	-4.08	0.000	0.30 0.90
Post 2	0.6	0.15	45.9	-3.79	0.000	0.26 0.85
Post 3	0.3	0.15	45.9	-2.09	0.042	0.01 0.60
Post 4	0.4	0.15	45.9	-2.57	0.014	0.08 0.67
Post 5	0.0	0.15	45.9	-0.20	0.845	-0.27 0.32
Post 6	0.0	0.16	46.1	0.00	0.999	-0.31 0.31

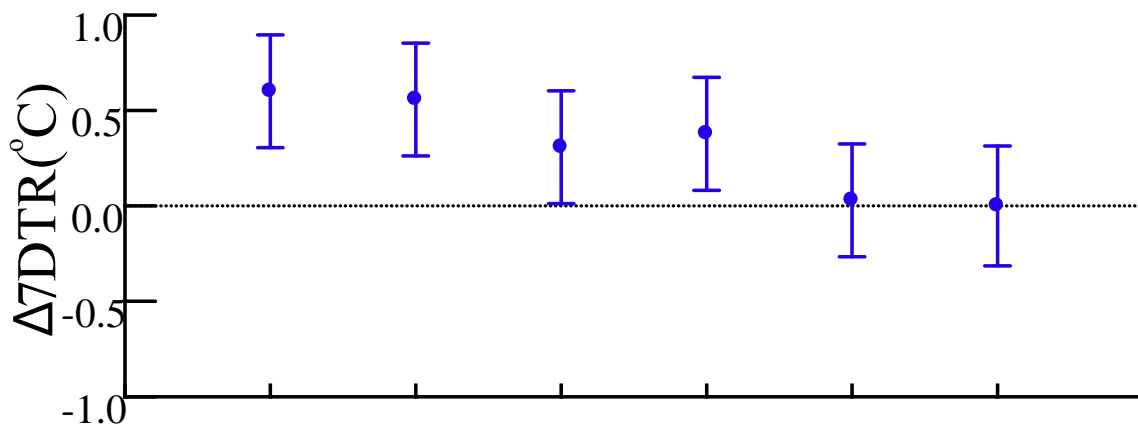


Figure 4A-4. Post-harvest change in the seven-day average temperature response (7DTR) by year. Error bars show the 95% confidence intervals.

4A-4. APPENDIX TABLES

Appendix Table 4A-1. Mean monthly maximum daily temperatures at the F/N junction (transition of fish-bearing to non-fish-bearing stream). (See **Table 4-7** in the original report.)

Site	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2012								12.3	11.7	10.2	9.1	8.1
	2013	6.9	7.5	7.8	8.3	9.5	10.2	11.3	11.9	12.6	9.9	8.9	6.8
	2014	7.7	7.0	8.4	8.9	10.0	10.8	12.3	13.0	12.7	11.9	9.1	8.9
	2015	8.8	9.2	9.2	9.2	10.2	11.7	13.1	13.5	12.1	11.9	9.2	8.6
REF1	2016	8.2	9.1	9.1	10.1	10.6	11.5	12.3	13.4	12.3	10.9	10.3	7.6
	2017	6.6	7.4	8.0	8.5	9.7	10.8	11.8	12.9	12.6	10.2	9.1	7.9
	2018	8.4	7.4	7.7	9.4	10.2	10.9	12.5	13.0	11.8	10.6	9.3	8.3
	2019	8.3	6.4	7.4	8.8	10.3	11.2	12.4	13.2	12.5	9.7	8.6	8.4
	2020	8.4	8.1	7.6	8.5	9.5	10.6	11.9	12.7	12.9			
	2012						10.6	11.6	13.7	12.4	10.4	9.6	8.5
	2013	7.0	7.6	8.0	8.6	10.1	11.4	13.2	14.0	13.5	10.4	9.4	7.2
	2014	7.8	7.1	8.6	9.2	10.4	12.1	14.3	14.9	13.7	12.2	9.7	9.4
	2015	9.0	9.2	9.1	9.2	10.5		14.6	14.7	12.9	12.3	9.9	9.1
REF2	2016	8.4	9.2	9.2	10.2	11.2	12.7	13.8	14.3	13.0	11.5	10.9	8.4

2017	7.0	7.6	8.2	8.7	10.0	11.2	13.2	14.4	13.5	10.5	9.7	8.3
2018	8.8	7.8	7.9	8.9	10.9	12.1	13.9	14.3	12.8	11.0	9.8	8.9
2019	8.7	6.9	7.5	9.0	10.8	12.1	13.7	14.7	13.5	10.4	9.0	8.9
2020	9.0	8.2	7.6	9.2	10.4	11.2	12.9	14.3	14.2			
2012						10.9	11.7	13.6	12.9	10.4	9.7	8.6
2013	6.9	7.7	8.1	8.6	10.1	11.3	12.9	13.7	13.5	10.3	9.3	7.0
2014	7.8	7.2	8.7	9.3	10.5	11.8	13.8	14.4	13.5	12.3	9.7	9.4
2015	9.1	9.3	9.2	9.5	10.7	12.8	14.6	14.7	12.8	12.2	9.8	9.1
REF3 2016	8.5	9.3	9.3	10.0	10.8	11.8	13.0	13.9	12.9	11.5	10.9	8.5
2017	6.9	7.6	8.4	8.7	10.0	11.2	13.0	14.5	13.7	10.5	9.7	8.3
2018	8.9	7.8	7.9	8.8	10.8	11.7	13.6	14.0	12.6	11.0	9.7	8.9
2019	8.8	6.9	7.3	9.1	10.7	11.7	13.3	14.3	13.4	10.3	8.9	8.9
2020	9.1	8.2	7.6	9.2	10.4	11.2	12.7	14.0	14.1			

Appendix Table 4A-1 (continued). Mean monthly maximum daily temperatures at the F/N junction (transition of fish-bearing to non-fish-bearing stream). Light blue shading indicates the harvest period and gray shading the post-harvest period. (See **Table 4-7** in the original report.)

TYPE N BUFFER EFFECTIVENESS ON MARINE SEDIMENTARY LITHOLOGIES

Site	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TRT1	2012					10.6	10.9		14.4	13.0	10.6	9.2	7.7
	2013	5.6	6.8	7.5	8.5	10.7	12.3	14.0	14.8	14.0	10.2	8.4	5.6
	2014	6.7	5.9	8.1	9.0	11.2	12.8	15.7	16.8	15.4	13.5	8.9	8.6
	2015	8.2	9.0	9.5	10.4	12.9	15.2	16.7	16.4	14.0	12.8	9.2	8.5
	2016	7.7	9.2	9.7	11.4	12.8	14.1	15.2	16.0	14.0	12.1	11.0	7.6
	2017	5.6	7.2	8.7	9.6	11.5	13.1	14.8	15.9	14.6	10.6	9.7	7.3
	2018	8.5	7.5	7.9	9.5	12.1	12.8	15.0	15.4	13.2	10.8	9.0	8.1
	2019	7.9	6.1	7.1	9.5	11.5	12.7	14.5	15.2	14.1	9.6	7.8	8.1
	2020	8.9	7.9	7.4	9.5	10.7							
TRT2	2012						9.9	10.7	12.9	12.1	10.0	9.4	8.7
	2013	7.4	8.0	8.3	8.7	9.7	10.7	12.1	13.4	13.1	9.9	9.2	7.6
	2014	8.1	7.7	8.7	9.1	10.0	11.4	13.2	14.2	13.3			
	2015					10.7	12.3	14.0	14.4	12.8	11.9	10.1	9.8
	2016	9.1	9.6	9.5	10.1	10.8	11.8	12.7	13.6	12.7	11.6	11.2	9.5
	2017	8.2	8.6	9.0	9.4	10.2	11.0	12.3	13.7	13.2			
	2018				9.6	10.8	11.6	13.2	13.9	12.4	10.8	9.9	9.5
	2019	9.3	8.0	8.1	9.3	10.6	11.4	12.6	13.4	12.7	10.3	9.2	9.3
	2020	9.5	8.9	8.3	9.3	10.2	10.8	12.1	13.2	13.3			
TRT3	2012								12.9	12.0	10.0	9.5	8.6
	2013	7.1	7.8	8.0	8.4	9.7	10.8	12.3	13.4	13.2	10.0	9.2	7.2
	2014	7.7	7.5	8.7	9.2	10.5	12.0	13.4	14.4	13.5	12.0	9.8	9.6
	2015	9.2	9.3	9.4	9.6	10.9	12.8	14.4	14.5	12.9	12.2	10.0	9.6
	2016	8.7	9.5	9.6	10.2	11.0	12.2	13.3	13.9	12.8	11.9		
	2017					10.9	11.3	12.8	13.9	13.1	10.3	10.1	9.0
	2018	9.3	8.3	8.3	9.3	11.0	11.9	12.8	13.8	12.5	10.9	9.8	9.3
	2019	8.9	7.4	7.3	9.3	10.7	11.6	13.1	13.9	13.1	10.4	8.8	9.1
	2020	9.5	8.6	8.0	9.1	10.3	11.1	12.4	13.4	13.5			
TRT4	2012						10.8	11.8	13.5	12.2	10.1	9.5	8.4
	2013	6.6	7.7	8.2	8.7	10.1	11.3	12.9	13.9	13.5	10.0	9.0	6.8
	2014	7.5	7.0	8.5	9.1	10.3	11.7	13.9	14.8	13.7	12.2	9.3	9.1
	2015	8.8	9.2	9.4	9.8	11.0	13.1	14.7	15.0	13.1	12.3	9.8	9.3
	2016	8.5	9.5	9.6	10.6	11.2	12.5	13.7	14.3	13.1	11.8	11.3	8.8
	2017	7.1	8.0	8.9	9.4	10.5	11.8	13.0	14.3	13.9	10.5		8.2
	2018	9.1	8.0	8.3	9.6	11.2	12.3	14.5	14.8	12.6	11.0	9.8	9.2
	2019	9.0	7.1	7.9	9.6	11.1	12.2	13.8	14.5	13.6	10.4	8.8	9.1
	2020	9.4	8.6	8.0	9.8	10.7	11.4	13.2	14.0	14.2			

Appendix Table 4A-1 (continued). Mean monthly maximum daily temperatures at the F/N junction (transition of fish-bearing to non-fish-bearing stream). Light blue shading indicates the harvest period and gray shading the post-harvest period. (See **Table 4-7** in the original report.)

Site	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TRT5	2012						10.9	11.9	13.3	12.4	10.6	9.7	8.5
	2013	6.9	7.7	8.1	8.8	10.1	11.2	12.9	13.6	13.4	10.4	9.4	7.1
	2014	7.7	7.2	8.6	9.1	9.7			14.8	13.8	12.2	9.6	9.3
	2015	9.0	9.3	9.2	9.4	10.8	13.2	14.9	15.1	13.7	12.7	10.3	9.5
	2016	8.6	9.4	9.4	10.4	11.5	12.5	13.5	14.6	13.5	12.1	11.5	9.0
	2017	7.1		8.7	8.7	11.1	11.6	13.1	14.4	13.8	11.3	10.3	8.6
	2018	9.3	8.3	8.4	9.5	11.0	11.9	13.5	14.4	13.0	11.5	10.3	9.5
	2019	9.1	7.7	7.5	9.2	10.8	11.7	13.3	14.2	13.5	10.8	9.3	9.3
	2020	9.5	8.7	8.0	9.5	10.5	11.3	12.7	14.0	13.9			
TRT6	2012						10.9	11.6	13.0	12.2	10.6	9.5	8.3
	2013	6.8	7.6	7.9	8.6	10.0	11.2	12.6	13.2	13.2	10.4	9.2	6.8
	2014	7.9	6.7	8.6	9.1	9.8			14.1	13.7	12.4	9.2	9.0
	2015	8.9	9.4	9.4	9.4	10.6	12.5	14.1	14.4	13.1	12.5	9.7	8.9
	2016	8.2	9.4	9.4	10.2	11.0	12.1	13.3	13.9	13.1	11.7	11.0	8.1
	2017	6.6	7.7	8.8	9.3	10.4	11.6	12.8	13.9	13.4	10.9	9.9	8.2
	2018	8.9	7.8	8.0	9.3	10.7	11.7	13.2	13.8	12.8	11.2	9.8	8.9
	2019	8.7	6.8	7.3	9.2	10.5	11.5	13.0	13.9	13.4	10.4	9.0	8.8
	2020	9.1	8.3	7.6	8.9	10.3	11.2	12.3	13.3	13.5			
TRT7	2012						9.1	10.1	11.5	11.1	9.6	8.2	7.1
	2013	6.5	6.8	7.2	7.6	8.9	9.6	10.9	11.6	11.8	9.4	8.3	6.3
	2014	7.5	6.6	7.7	8.1	9.2	10.1	11.8	12.7	12.3	11.0	8.3	8.1
	2015	8.4	8.9					12.7	13.1	11.7	11.2	8.8	8.3
	2016	8.0	8.7	8.7	9.6	10.2	11.0	11.5	12.6	11.8	10.4	9.8	7.6
	2017	6.7	7.4	8.1	8.4	9.5	10.3	11.4	12.7	12.5	10.7		
	2018						10.5	11.9	12.6	11.9	10.4	9.2	8.4
	2019	8.3	6.4	7.1	8.5	9.7	10.4	11.5	12.4	11.5	9.6	8.7	8.4
	2020	8.6	7.8	7.2	8.6	9.6	10.0	11.2	12.1	12.2			

Appendix Table 4A-2. Mean monthly temperature response (MMTR) in the post-harvest period at each location in each treatment site. Locations are sorted by distance upstream to the perennial initiation point (PIP) within each site. Shaded cells indicate the absolute value of MMTR $\geq 0.5^{\circ}\text{C}$ with an uncorrected P-value < 0.05 . Blue shading indicates a decrease in temperature. The three intensities of red shading indicate warming with MMTR values of $0.5\text{--}1.0^{\circ}\text{C}$, $1.0\text{--}2.0^{\circ}\text{C}$, and $> 2.0^{\circ}\text{C}$, respectively. Location superscripts 1 = PIP, 2 = unbuffered, 3 = F/N break, 4 = downstream of harvest unit. (See **Table 4-9** in the original report.)

Site	Distance		Treatment	Year	Treatment											
	from PIP	Location			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TRT1	0	T4a ¹	Post 1	0.2	0.6	0.8	1.4	1.8	2.0	1.9	2.0	1.8	1.5	0.1	0.1	
			Post 2	0.6											0.6	0.3
			Post 3	0.3	0.6	0.7	1.2	0.0	1.7	1.8	1.5	1.3	1.0		0.2	0.4
			Post 4		1.0	1.1	1.3	1.6	1.3	1.4	1.3	1.0	0.3			

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			0.8	1.0	1.0	1.1	1.1	0.9	0.9	0.7	0.3	-	0.3	0.2	
												0.2			
9	T4b ¹	Post 1	0.1	0.6	1.6	2.3	3.3	4.7	3.7	3.1	2.1	0.9	-0.5	-0.1	
		Post 2	0.5	0.5	0.9	1.5						0.2	-0.1	0.0	
		Post 3										0.1	0.0	0.4	
		Post 4													
		Post 5	0.5	1.1	1.0	1.2	1.5	1.4	1.1			0.1	-		
		Post 6	0.8	1.1	1.0	1.0	0.6	0.3	0.2		0.3	-	0.5		
											0.0	-			
			0.4	0.8	0.7	0.4	0.2	-	0.2	-	-	-	-0.2	0.1	
						0.4	0.2	-	0.2	-	0.3	0.5	0.6	-0.4	0.4
			0.7	0.7	0.6					0.3	-	-	-		
										1.0	1.1	0.8			
71	LB1 ²	Post 1	0.9	1.5	1.6	1.8	2.0	2.4	2.4	1.8	1.3	0.8	0.0	0.3	
		Post 2											0.4	0.4	
		Post 5	1.1	0.6	1.1	1.1	1.1	1.4	1.2	1.1	0.9	0.9	0.1	0.4	
			0.6	0.5	0.2	0.5	0.5	0.6	0.8	1.5	1.3	-		0.4	
												0.6			
259	T3a ²	Post 1	0.0	0.5	1.0	1.7	2.6	3.4	2.3	1.5	1.0	0.4	-0.3	0.0	
		Post 2	0.4	0.5											
		Post 3	0.2		1.0	1.7	1.8	2.1	1.6	1.2	0.4	0.5	0.1	0.2	
		Post 4		1.0	0.8	1.0	1.3	1.0	0.6	0.0	-	0.1		0.6	
		Post 5	0.6	0.9	0.8	0.8	0.4	0.2	-	-	-	-			
		Post 6					0.0	-	0.2	0.1	0.3	0.3	0.2	0.4	
			0.4	0.7	0.4	0.3	0.0	-	0.1	-	-	-		0.5	
						0.2	0.1	0.1	-	0.4	0.5	0.4	0.4	0.1	0.4
													0.3	0.5	
			0.7	0.6	0.5		0.1	-	0.2	0.5	0.7	0.4			
337	T2a ²	Post 1	0.1	0.5	0.8	1.5	2.3	3.5	3.0	2.5	1.8	0.4	-0.3	0.0	
		Post 2	0.4	0.5								0.4	0.1	0.2	
		Post 3	0.3		0.8	1.3	1.4	1.7	1.4	1.3	0.4	0.1	0.3	0.5	
		Post 4		0.9	0.7	0.8	1.0	0.9	0.5	0.1	-	0.1			
		Post 5	0.6	0.9	0.6	0.6	0.3	0.1	0.1		0.1	-	-	0.6	0.5
		Post 6					0.2	0.2	0.2	-	0.1	0.3			
			0.4	0.6	0.3	0.2	-	-	-	-	-	-	0.1	0.4	
					0.5	0.1	0.1	0.3	0.4	0.5	0.4	0.5			
			0.8	0.6							-	-0.4	-0.2	0.5	
											0.6				
357	T3b	Post 1	0.0	0.4	0.5	0.9	1.1	1.6	1.1	0.8	0.5	0.2	-0.1	-0.1	
		Post 2	0.3	0.3								0.4	0.0	0.1	
		Post 3	0.1		0.5	1.0	0.9	1.5	1.1	1.1	0.4	0.1	0.3		
		Post 4		0.7	0.6	0.7	0.9	0.9	0.7	0.3	0.1	0.1	0.4	-0.2	
		Post 5	0.5	0.7	0.6	0.7	0.4	0.2	0.1	-	0.1		0.4		
		Post 6					0.0	0.0	-	0.2	-	-	0.4		
			0.1	0.4	0.2	0.2	-	-	0.2	-	0.5	-	-0.1	0.1	
				0.4	0.3	0.0	0.1	0.2	-	0.2	-	0.6			
			0.7							0.2	-	-	-	0.3	
											0.5	0.8	0.5	0.5	

CHAPTER 4A – STREAM TEMPERATURE AND COVER ADDENDUM: EHINGER AND BRETHERTON

460	T2b	Post 1	0.1	0.4	0.5	0.8	1.0	1.9	1.3	0.9	0.8	0.4	0.0	0.1
		Post 2	0.4	0.4	0.7	0.9	1.1	1.4	1.2	0.9	0.4	0.5	0.4	0.3
		Post 3	0.2											
		Post 4	0.5	0.8	0.7	0.6	1.0	0.6	-	-	-	-	0.3	0.3
		Post 5	0.0						0.1	0.4	0.3	0.1	0.4	0.4
		Post 6		0.7	0.6	0.4	-	-	-	-	-	-	0.0	0.0
					0.1	0.1	0.3	0.9	0.6	0.6	0.2			
				0.2	0.1	0.1	-	-	-	-	-	-		
				0.2	0.2		0.2	0.4	0.8	0.8	0.6	0.4		
			0.6				0.0	-	-	-	-	-	-	-
								0.3	-	-	-0.7	-0.8	-0.7	-0.5
									0.5					0.3

Appendix Table 4A-2 (continued). Mean monthly temperature response (MMTR) in the postharvest period at each location in each treatment site. (See **Table 4-9** in the original report.)

	Distance	Treatment Site	Location	from PIP Location					Year	Jan	Feb	Mar	Apr	May		
				Jun	Jul	Aug	Sep	Oct	Nov	Dec						
TRT1	484	T300a	Post 1	0.0	0.5	1.0	1.5	1.8	2.7	1.9	1.6	1.1	0.6	-0.2	0.0	
			Post 2	0.4	0.4	0.8	1.2	1.1	1.3	1.1	1.0	0.4	0.5	0.1		
			Post 3	0.3												
			Post 4		1.0	0.8	0.9	1.1	0.8	0.5	0.0	0.0	0.3	0.7		
			Post 5	0.6	0.9	0.8	0.8	0.4	0.0	-	0.5	0.4	-	0.4	0.4	
			Post 6					0.1	0.0	0.5	-	-	-	0.2	0.3	
						0.2	0.6	0.4	0.3	0.1	0.0	-	0.3	0.2	0.1	0.3
								0.3			0.3	0.6	-	-	-0.2	0.4
				0.7	0.6	0.6			-	-	0.2					
									0.1	0.4	0.6					
564	T1a	Post 1	0.4	0.9	1.2	1.4	1.5	1.7	0.8	0.7	0.7	0.6	0.0	0.3		
		Post 2	0.5	0.7	1.1	1.3	1.2	1.5	1.2	1.1	0.6	0.7	0.4	0.4		
		Post 3														
		Post 4	0.1	0.8	0.9	1.0	1.1	1.0	0.8	0.4	0.3	0.5	0.7	0.5		
		Post 5	0.9	1.0	1.0	1.1	0.9	0.5	0.8	0.7	0.3	0.2	0.8	0.5		
		Post 6									0.2	-	0.2	0.5		
			0.5	0.7	0.5	0.8	0.5	0.5	0.5	0.8	-	0.2	0.2			
			1.1	0.8	0.5	0.3	0.1	0.1	0.1	-	0.2	-	-	0.6		
								0.1	0.1	0.1	0.2					
610	T300b	Post 1	0.1	0.7	1.2	1.9	2.7	4.3	3.3	2.7	1.6	1.1	0.0	0.1		
		Post 2	0.4	0.5	0.9	1.9	1.7	2.2	1.8	1.6	0.7	0.6	0.2	0.2		
		Post 3	0.1										0.4	0.3		
		Post 4	0.4	0.7	0.8	0.9	1.2	1.0	0.7	0.1	0.1	0.3				
		Post 5	0.1	0.7	0.7	0.8	0.7	0.1	0.0	-	-	-	0.5	0.2		
		Post 6												0.1		
				0.6	0.5	0.6	0.3	0.0	0.3	-	-	-	-	0.1		
						0.2				0.2	0.2	0.4	0.5	0.1		
		0.6	0.5	0.6	0.4			0.2	-	-	-	-				
									0.6	0.7	0.6	0.4				
679	T500b	Post 1	0.3			2.4	2.4	3.4	2.2	1.9	1.2	0.8	0.0	0.1		
		Post 2	0.5										0.3	0.3		
		Post 3	0.1	0.4	0.7	1.1	0.8	1.8	1.3	1.1	0.6	0.5	0.3	0.3		
		Post 4	0.5									0.2				
		Post 5	0.0	0.7	0.7	0.8	1.2	0.9	0.5	-	-					
		Post 6		0.7	0.6	0.6	0.5	0.0	0.2	-	-	0.2	0.6	0.3		
										-	0.3	0.4		0.0		
								0.1						0.2		
			0.5	0.5	0.5	0.2	-	-	-	-	-	-				
			0.4		0.4	0.1	-	0.5	0.4	0.6	0.6	0.2				
		0.6		0.6				-	-	-	-	-				
								0.4	0.7	0.9	0.6	0.4				
755	T1b	Post 1		0.8	1.3	1.7	1.8	2.2	1.2	1.0	0.9		0.1	0.2		

Appendix Table 4A-2 (continued). Mean monthly temperature response (MMTR) in the postharvest period at each location in each treatment site. (See **Table 4-9** in the original report.)

		Post 2	0.3					1.7	1.9	1.7	1.5	1.1	0.6		
		Post 3													
		Post 4	0.1	0.6	0.6	0.7		1.2	1.1	1.0	0.1	0.2	0.6	0.5	0.4
		Post 5	0.4	0.6	0.7	0.7		-			-	0.1	0.1	0.6	0.3
		Post 6	0.1	0.6	0.7	0.7		-			0.1	-	0.1	0.6	0.3
				0.5	0.7	0.6		0.3			-	-	0.3	-	0.1
								0.3		-	-	0.2	0.4	0.0	0.3
								0.1	0.2	0.2			-	-	
			0.7	0.5	0.7	0.5		0.1	-	-	-	-	0.3	0.3	
								0.0	0.2	0.6	0.6				
870	D100 ³	Post 1	0.1	0.5	0.7	0.9		1.3	1.4	0.9	0.7	0.7	0.5	-0.1	0.1
		Post 2	0.4	0.5	0.8			1.3	1.2	1.4	1.1	1.2	0.6	0.5	0.1
		Post 3	0.0					1.3	1.2	1.4	1.1	1.2	0.6	0.3	0.40.2
		Post 4		0.7	0.8	0.9		1.2	0.9	0.8	0.3	0.2	-	0.5	
		Post 5									0.3	0.1	0.10.2		
		Post 6	0.5	0.7	0.7	0.8	0.6	0.1	0.3		0.3	0.1	0.10.2		
			0.2	0.6	0.5	0.4	0.2	0.0	-	0.1	0.1	-	-0.4	-0.1	0.1
									0.1						
			0.7	0.5	0.6	0.3	-						-	-0.4	0.2
							0.2						0.7		

Appendix Table 4A-2 (continued). Mean monthly temperature response (MMTR) in the postharvest period at each location in each treatment site. (See **Table 4-9** in the original report.)

Site	Distance		Treatment												
	from PIP	Location	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TRT2	257	T300	Post 1	0.4	0.5	0.7	1.0	1.0	1.1	1.3	1.8	1.0	0.5	0.7	0.3
			Post 2	0.8	0.8	1.1	1.1	0.9	0.9	0.8	1.4	1.0	0.9	1.0	0.7
			Post 3	1.0	0.7	0.4	0.5	1.0	0.9	0.9	0.8	0.8	0.6	0.7	0.7
			Post 4	0.6	0.6	0.8	0.9	0.8	0.8	1.3	1.5	1.3	0.4	0.5	0.5
			Post 5	0.5	0.7	0.7	0.8	0.8	0.6	0.6	0.5	0.1	0.2	0.6	0.4
			Post 6	0.6	0.6	0.7	0.7	0.5	0.4	0.4	0.8	0.7	0.2	0.6	0.6
325	T500	Post 1	0.3	0.3			0.8	0.8	0.8	0.9	0.8	0.4	0.5	0.2	
		Post 2	0.7	0.7	0.9	1.1	1.0	1.2	0.8	0.9	0.7	0.4		0.7	
		Post 3	0.5	0.5	0.5	0.6	1.1	1.0	1.1	1.0	0.7	0.3	0.4	0.5	
		Post 4	0.5	0.4	0.7	1.0	1.1	1.0	1.4	1.4	1.0	0.2	0.3	0.3	
		Post 5	0.4	0.5	0.6	0.8	1.0	0.7	0.7	0.4	0.0	0.0	0.4	0.3	
		Post 6	0.6	0.6	0.7	0.9	0.7	0.5	0.4	0.6	0.5	0.0	0.4	0.5	
436	T1 ₃	Post 1					0.3		0.2	0.4		0.2	0.4		
		Post 2	0.7	0.5	0.4	0.5	0.4		0.3	0.4		0.4	0.6	0.7	
		Post 3	0.9	0.9	0.7	0.7	0.5		-0.1	-0.1			0.9	0.9	
		Post 4				0.5	0.4	0.4	0.3	0.4	0.3	0.1	0.3		
								0.1			0.4				
								0.4			0.4				
						0.1			0.0						
			Post 5	0.5	0.4	0.4	0.4	0.3	0.1	0.0	-0.1	0.1	0.1	0.4	0.5
			Post 6	0.6	0.6	0.6	0.3	0.1	-0.1	-0.1	-0.1	-0.2	-0.4	0.4	0.5

Appendix Table 4A-2 (continued). Mean monthly temperature response (MMTR) in the postharvest period at each location in each treatment site. (See **Table 4-9** in the original report.)

TRT3	13	T4 ¹	Post 1	0.1	-0.2	0.0	-0.1				0.1	-0.1	0.2	-0.1	-0.1	
			Post 2		0.3	-0.3	-0.3	0.2	-0.2	-0.3	-0.2	-0.4				
			Post 3		-0.5	0.0	-0.2	-0.6	-0.7	-0.8	-0.4	-0.4				
			Post 4		0.1	0.2	0.2	0.6	0.3	-0.1	0.0	0.2				
17	LBI	Post 1	0.5	0.5	0.2	0.2	0.4	0.4	0.1	0.5	0.1	0.2	0.3	0.4		
		Post 2	0.8	0.8	0.7	0.7	0.8	0.9	1.1	1.2	0.9	0.8		0.7		
		Post 3	0.9	1.0	0.8	0.7	0.6	0.7	0.7	1.2	0.9	0.5	0.5	0.6		
		Post 4		1.3	1.3	1.2	1.2	1.0	1.0	1.0	0.9					
		Post 5	0.5	0.6	0.9	0.9						0.5	0.4	0.5		
		Post 6	0.7	0.6	0.8	0.8	0.8	0.8	1.0	1.0	0.7	0.6	0.5	0.7		
264	T2	Post 1	0.5	0.6	0.3	0.3	0.7	0.8	0.8	1.3	1.0	0.6	0.8	0.5		
		Post 2	0.7	0.8	0.7	0.7	0.8	1.1	1.4	1.6	1.1	0.6	0.4	0.8		
		Post 3	0.6	0.7	0.8	0.7	0.7	1.0	1.0	1.1	0.8	0.7	0.9	0.8		
		Post 4	0.6	0.6	0.6	0.5	0.7	0.4	0.4	0.6	0.8	0.3	0.5	0.6		
		Post 5	0.5	0.8	0.6	0.5	0.5	0.9	0.8	0.8	0.9	0.4	0.4	0.5		
		Post 6	0.8	0.6	0.7	0.7	0.5	0.3	0.4	0.4	0.4	0.3	0.6	0.7		
425	T1 ³	Post 1	0.4	0.4	0.2	0.2	0.4	0.5	0.4	0.7	0.7	0.3	0.4	0.4		
		Post 2	0.6	0.6	0.5	0.4	0.4	0.5	0.7	0.7	0.6	0.4	0.4	0.7		
		Post 3		0.5	0.6	0.5	0.4	0.7	0.8	0.8	0.4	0.5				
		Post 4	0.6	0.7			0.5	0.3	0.2	0.1	0.2	0.2	0.5	0.5		
		Post 5	0.5	0.6	0.5	0.5	0.5	0.4	0.2	0.7	0.7	0.2	0.4	0.4		
		Post 6	0.6	0.5	0.4	0.4	0.3	0.2	0.3	0.3	0.2	0.1	0.3	0.5		
				0.3							-0.2			-0.2	-0.1	
				-0.5							-0.2			-0.2	-0.5	

Appendix Table 4A-2 (continued). Mean monthly temperature response (MMTR) in the postharvest period at each location in each treatment site. (See **Table 4-9** in the original report.)

Site	Distance		Treatment													
	from PIP	Location	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
TRT4	242	T3	Post 1	0.6	0.7	0.9	0.9	1.0	0.8	0.5	0.9	0.3	0.4	0.6	0.4	
			Post 2	0.9	0.9	0.6	0.6	0.8	0.9	1.0	1.1	0.7	0.6	0.7	1.0	
			Post 4	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.5	0.7	0.3	0.6	0.5	
			Post 5	0.4	0.4	0.5	0.7	0.4	0.3	0.5	0.7	0.5	0.4	0.2	0.5	
			Post 6			0.7	0.8	0.6	0.4	0.3	0.3	0.6	0.4			
						0.5	0.6	0.9	1.1	1.1	1.0	0.4	0.4	0.4	0.4	0.4
	460	T2	Post 2	0.8	0.8	0.5	-0.1							0.7	0.7	1.1
			Post 3	0.2	0.1	0.4	0.7	1.1	0.8	0.5	0.0	0.0	0.3	0.3	0.0	
			Post 4	0.4	0.4	0.5	0.5	0.5	0.3	0.2	0.2	0.3	0.2	0.5	0.2	
			Post 5	0.3	0.2	0.5	0.8	0.7	0.5	0.5	0.6	0.2	0.2	0.1	0.3	
			Post 6			0.5	0.4	0.5	0.4	0.3	0.0	0.3	0.4			
						0.4	0.4	0.6	0.4	0.2	0.2	0.0	0.3	0.3	0.2	0.4
	696	T1 ³	Post 2	0.3	0.7	0.6	0.6	0.4	0.6	0.6	0.4	0.3	0.4	0.6	0.7	
			Post 3	0.5	0.4	0.5	0.7	0.6	0.4	0.0	-0.2	0.1	0.2		0.4	
			Post 4	0.6	0.6	0.6	0.7	0.5	0.4	0.8	0.7	0.2	0.1	0.4	0.5	
			Post 5	0.6	0.5	0.6	0.6	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.5	
						0.4	0.4	0.6	0.6	0.6	0.7	0.1	0.4	0.4	0.5	0.8
	TRT5	72	LB3	Post 2	0.9	1.0	1.0	0.7	0.8	0.9	0.9	0.9	0.7	0.6	0.6	0.8
Post 3				0.7	0.8	0.7	0.8	0.8	0.4	0.8	1.0	0.9	0.8	0.4	0.6	
Post 4				0.6	0.7	0.6	0.7	0.7		1.1	1.1	1.0	0.4	0.4	0.5	
Post 5				0.7	0.7	0.6	0.5	0.6	0.4	0.4	0.5	0.5	0.3	0.5	0.6	
Post 6											0.3	0.3	0.4	0.3		
						0.4	0.4	0.5	0.4	0.4	0.1	-0.1	0.8	0.7	0.5	0.4
529		T1 ³	Post 2	0.5	0.2	0.5		0.4	0.2	0.1	0.4	0.5	0.5	0.6	0.6	
			Post 3	0.5	0.5	0.5		0.2	0.3	0.0	0.2	0.3	0.4	0.5	0.6	
			Post 4	0.3	0.4	0.4		0.0	0.0	-0.1	0.1	0.2	0.3	0.5	0.4	
			Post 5	0.6	0.5	0.5		0.3	0.0	-0.1	-0.1	0.0	0.0	0.2	0.4	
			Post 6								-0.3	-0.1	0.0	0.2		
						0.4	0.4	0.5	0.4	0.4	0.1	-0.1	0.8	0.7	0.5	0.4

0.3
0.2
0.3

Appendix Table 4A-2 (continued). Mean monthly temperature response (MMTR) in the postharvest period at each location in each treatment site. (See **Table 4-9** in the original report.)

Site	Distance		Treatment												
	from PIP	Location	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TRT6	3	T4	Post 1	0.1	0.8	0.8	0.9	0.8	0.9	0.9	0.5	0.8	0.4	-0.2	0.0
			Post 2	-0.4	0.6	0.8	1.0	0.9	1.1	0.8	0.8	0.2	0.1	0.0	0.0
			Post 3	0.0	0.6	0.6	1.0	1.2	1.2	0.9	0.3	0.7	0.8	0.1	0.3
			Post 4	0.1	0.5	1.2	1.2	0.5	0.5	0.4	0.6	0.6	0.1	-0.2	-0.4
			Post 5	-0.1	0.2	0.6	0.7	0.7	0.7	0.5	0.4	0.1	-0.3	-0.4	-0.3
			Post 6	0.5	0.2	0.6	0.7	0.9	0.7	0.9	0.8	-0.1	0.0		
192	T3	Post 1	0.2	0.8	0.7	0.5	0.2	0.2	0.3	0.4	0.3	0.3	0.0	0.2	
		Post 2	-0.1	0.6	0.6	0.6	0.5	0.6	0.4	0.5	0.4	0.2	0.2	0.2	
		Post 3	0.1	0.6	0.6	0.6	0.7	0.7	0.4	0.5	0.8	0.6	0.4	0.4	
		Post 4	0.5	0.7	0.6	0.7	0.3	0.2	0.1	0.2	0.3	0.1	0.1	0.2	
		Post 5	0.6	0.6	0.6	0.4	0.2	0.1	-0.1	0.1	0.1	0.0	0.0	0.3	
		Post 6	0.9	0.8	0.9	0.6		-0.2	-0.3	-0.1	-0.1	0.0			
323	T2 ³	Post 1	0.2	0.8	0.7	0.5	0.2	0.2	0.3	0.4	0.3	0.3	0.0	0.2	
		Post 2	-0.1	0.6	0.6	0.6	0.5	0.6	0.4		0.4	0.2	0.2	0.2	
		Post 3	0.0	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.3	0.2	
		Post 4	0.5	0.6	0.5	0.4	0.3	0.2	0.0	0.0	0.2	0.0	0.1	0.1	
		Post 5	0.4	0.4	0.5	0.3	0.0	0.0	-0.1	0.0	0.1	0.0	0.1	0.2	
		Post 6	0.8	0.5	0.5	0.3	0.2	-0.3	-0.3	-0.2	-0.1	-0.1			
573	D100 ⁴	Post 1		0.6	0.5	0.2	0.0	-0.1	0.1	0.2	0.3				
		Post 2	-0.2			0.5	0.2	0.4	0.4	0.5	0.3	0.1	0.2	0.0	
		Post 3	-0.1	0.5	0.5	0.5	0.5	0.4	0.3	-0.2	-0.2	0.4	0.2	0.2	
		Post 4	0.3	0.4	0.4	0.5	0.1			1.2	0.2	0.2	0.1		
		Post 5	0.4	0.4	0.4	0.3	0.1	0.2	0.1	0.3	0.3				
		Post 6						-0.1	-0.2	-0.1	-0.1	0.0			
TRT7	3	T4 ¹	Post 1	0.7	0.6	0.3	0.3	0.5		0.3	0.5	-0.5	-0.1	0.6	0.7
			Post 2					0.8	0.1	-0.6	-0.7	-0.4	-0.7		
140	LB1	Post 1	0.9	0.7	0.6	0.7	0.6		0.5	0.5	0.5	0.3	0.5	0.7	
		Post 2	1.0	1.0	0.8	0.5	0.5	0.5	0.3	0.3	0.4	0.4	0.7	1.1	
573	T1 ³	Post 1	0.6	0.7	0.8	1.1	0.8		0.6	0.8	0.7	0.5	0.3	0.4	
		Post 2	0.2	0.6	0.7	0.5	0.7	0.9	0.4	0.7	0.5	0.2	0.3	0.3	
		Post 3					0.4	0.4	0.3	0.5	0.8				
		Post 4	0.7	0.3	0.6	0.5	0.4	0.4	0.4	0.6	0.8	0.5	0.4	0.5	
		Post 5	0.7	0.5	0.6	0.5	0.4	0.3	0.1	0.2	0.2	0.3	0.3	0.6	
		Post 6					0.2	0.1	0.2	0.2	0.4	0.2			
693	D100 ⁴	Post 1	0.3	0.4	0.8	1.1	1.0		0.5	0.5	0.6	0.4	0.1	0.0	
		Post 2	-0.1	0.5	0.7	0.7	1.0	1.1	0.7	0.7	0.5	0.2	0.2	0.0	
		Post 3					0.9	0.7	0.5	0.5	0.5				
		Post 4	0.5	0.2	0.5	0.7	0.9	0.7	0.5	0.6	0.6	0.5	0.2	0.3	
		Post 5					0.8	0.6	0.5	0.4	0.2				
		Post 6						0.5	0.4	0.2	0.2	0.1			

Appendix Table 4A-2 (continued). Mean monthly temperature response (MMTR) in the postharvest period at each location in each treatment site. (See **Table 4-9** in the original report.)