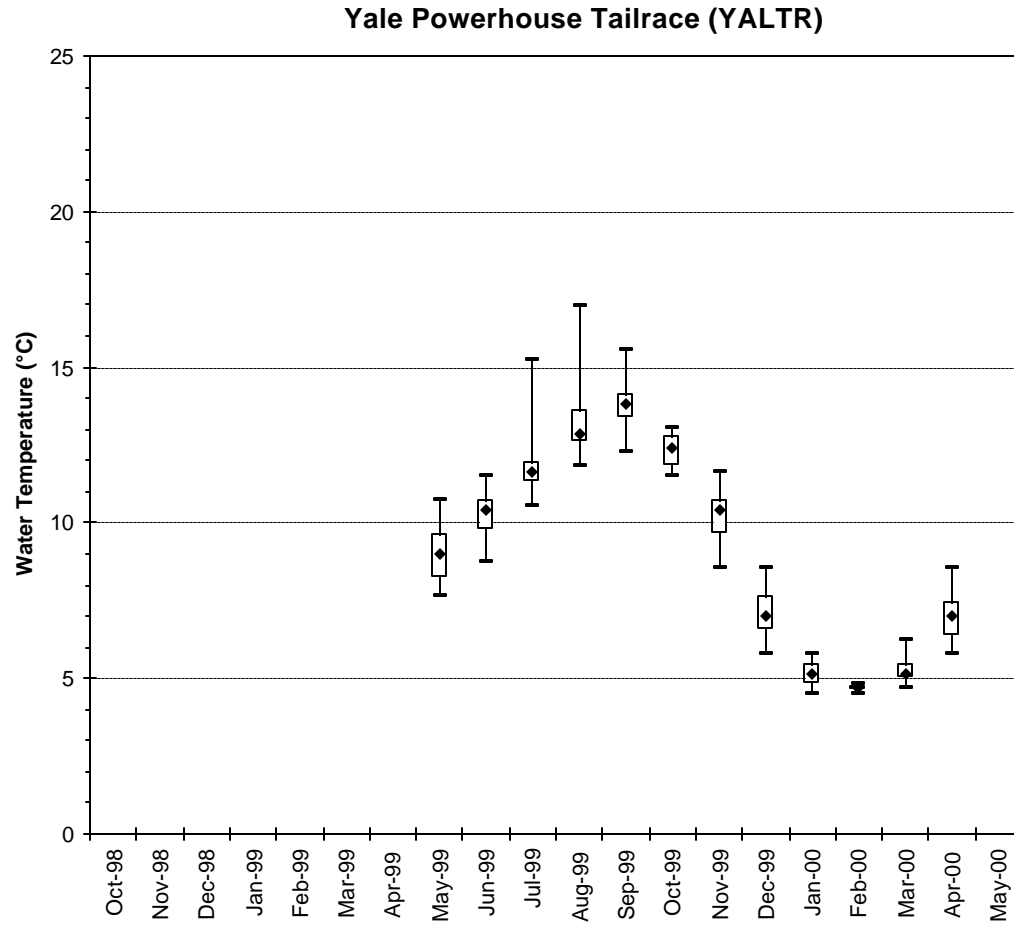


## **WAQ 1 Appendix 3**

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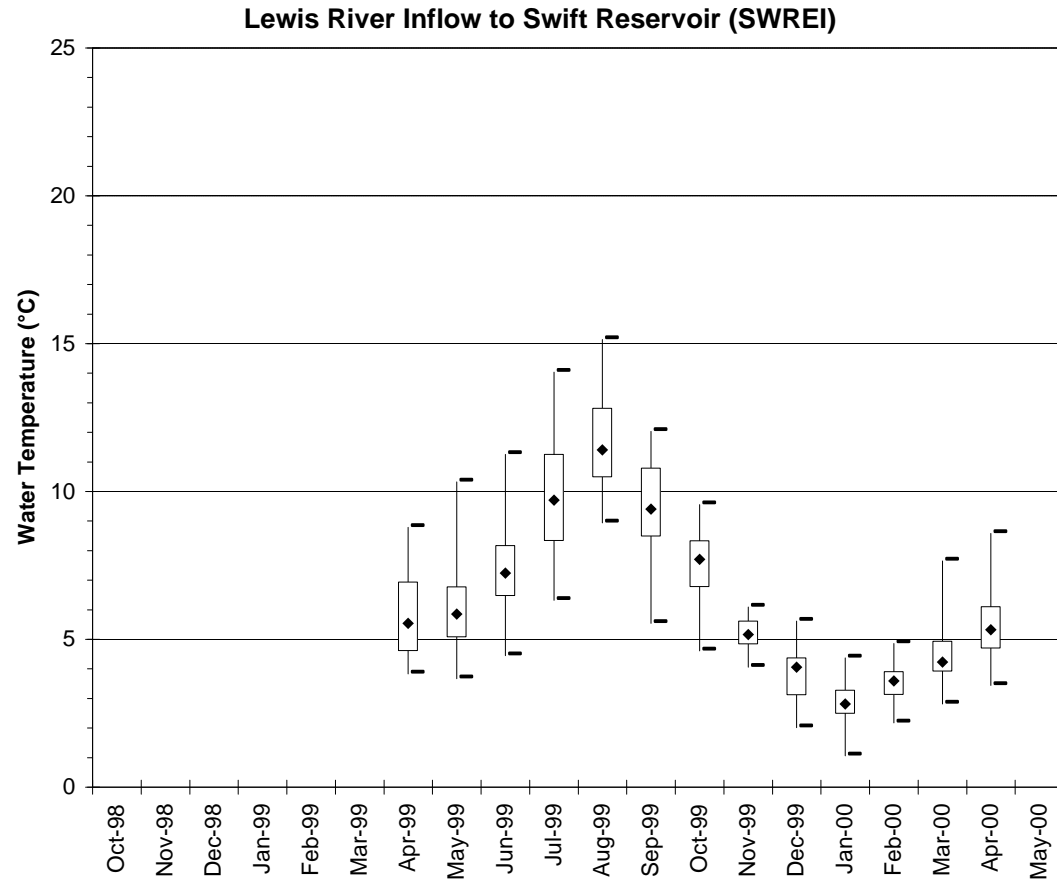
*Percent Exceedence Analyses for Hourly Temperature Measurements*

Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	324	7.6	8.2	9.0	9.6	10.7
Jun-99	720	8.7	9.8	10.4	10.7	11.5
Jul-99	743	10.6	11.3	11.6	11.9	15.2
Aug-99	742	11.8	12.6	12.9	13.6	17.0
Sep-99	456	12.3	13.3	13.8	14.1	15.5
Oct-99	271	11.5	11.8	12.4	12.8	13.0
Nov-99	719	8.6	9.6	10.4	10.7	11.6
Dec-99	742	5.8	6.5	7.0	7.6	8.6
Jan-00	743	4.5	4.8	5.2	5.5	5.8
Feb-00	694	4.5	4.7	4.7	4.7	4.8
Mar-00	743	4.7	5.0	5.2	5.5	6.2
Apr-00	425	5.8	6.4	7.0	7.5	8.6
May-00	0					



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

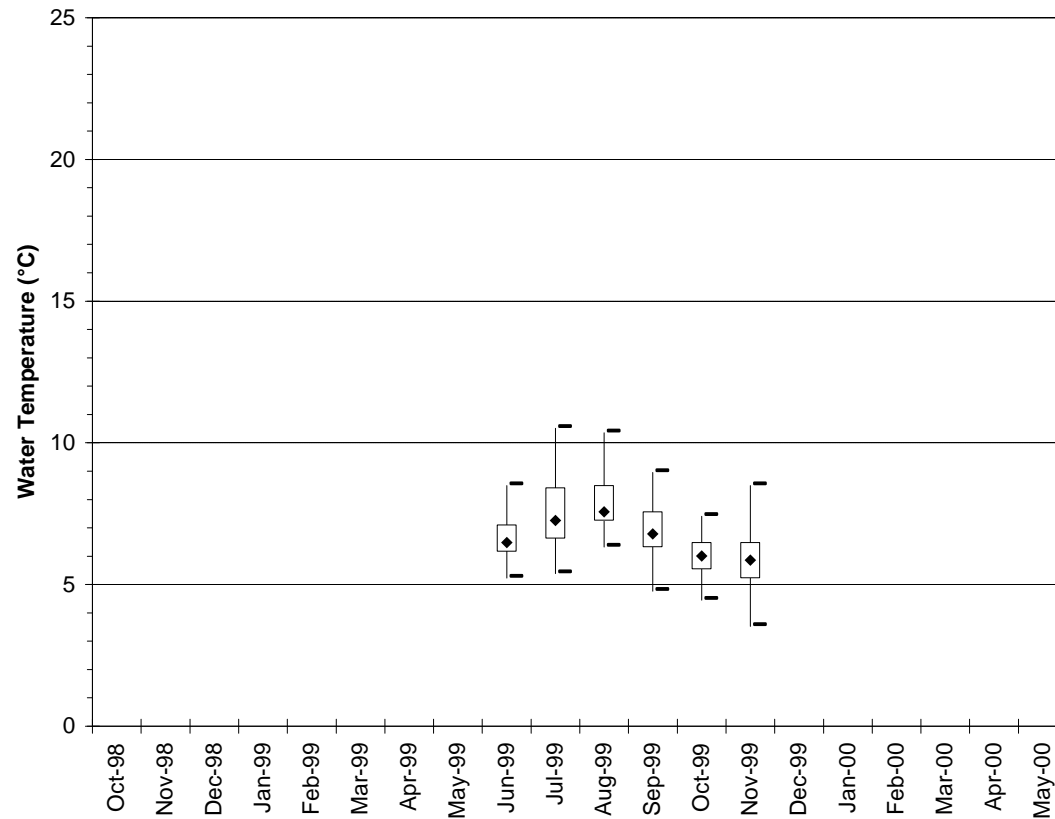
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	83	3.8	4.6	5.5	6.9	8.8
May-99	744	3.7	5.1	5.9	6.8	10.3
Jun-99	720	4.4	6.5	7.2	8.2	11.3
Jul-99	742	6.3	8.3	9.7	11.3	14.0
Aug-99	743	8.9	10.5	11.4	12.8	15.1
Sep-99	719	5.5	8.5	9.4	10.8	12.0
Oct-99	463	4.6	6.8	7.7	8.3	9.6
Nov-99	203	4.1	4.8	5.2	5.6	6.1
Dec-99	744	2.0	3.1	4.1	4.4	5.6
Jan-00	744	1.1	2.5	2.8	3.3	4.4
Feb-00	694	2.2	3.1	3.6	3.9	4.9
Mar-00	743	2.8	3.9	4.2	4.9	7.7
Apr-00	421	3.4	4.7	5.3	6.1	8.6
May-00	0					



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

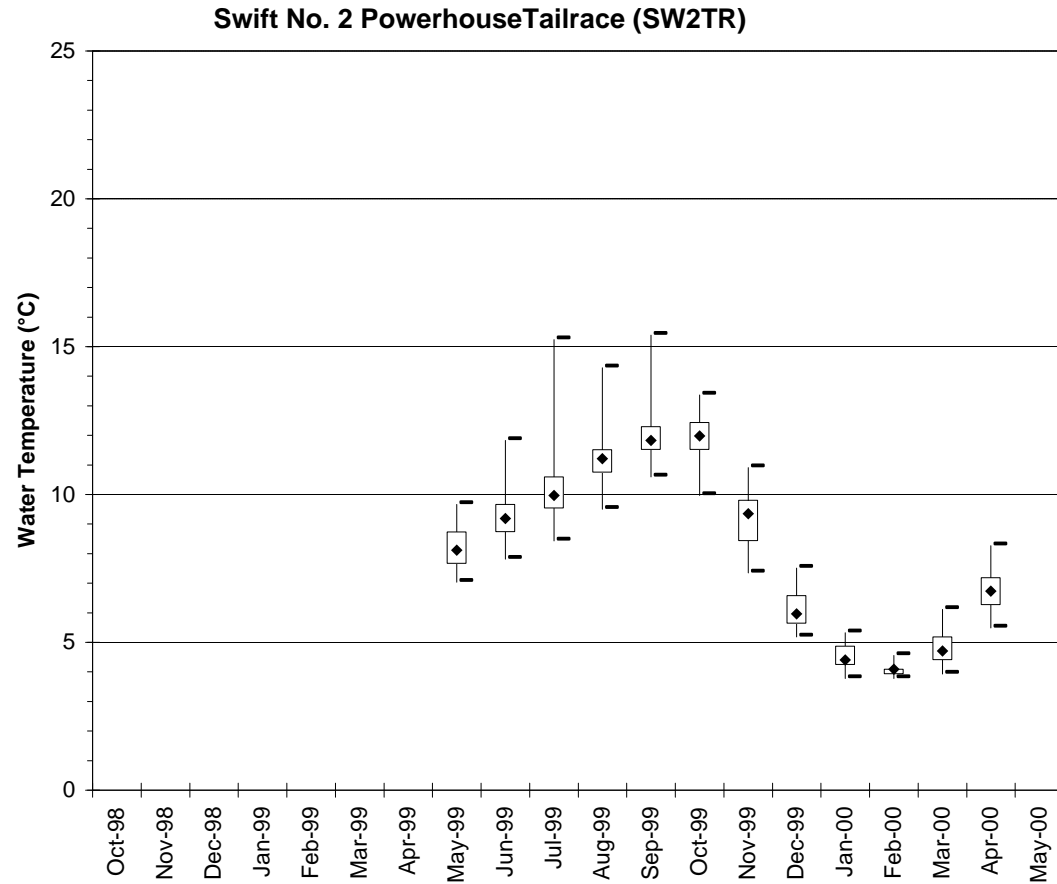
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	0					
Jun-99	202	5.2	6.2	6.5	7.1	8.5
Jul-99	743	5.4	6.6	7.3	8.4	10.5
Aug-99	742	6.3	7.3	7.6	8.5	10.4
Sep-99	719	4.8	6.3	6.8	7.6	8.9
Oct-99	743	4.4	5.5	6.0	6.5	7.4
Nov-99	517	3.5	5.2	5.9	6.5	8.5
Dec-99	0					
Jan-00	0					
Feb-00	0					
Mar-00	0					
Apr-00	0					
May-00	0					

Swift Creek near Mouth (SWICM)



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

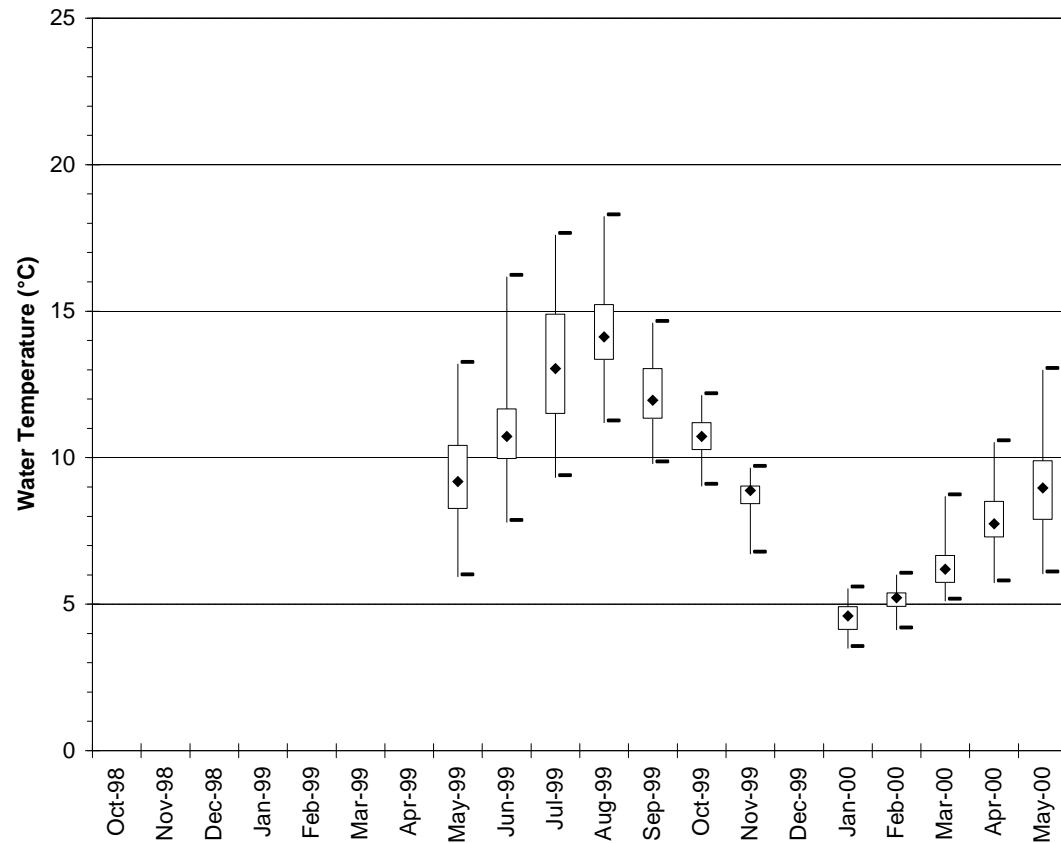
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	322	7.0	7.7	8.1	8.7	9.7
Jun-99	720	7.8	8.7	9.2	9.7	11.8
Jul-99	742	8.4	9.5	10.0	10.6	15.2
Aug-99	743	9.5	10.8	11.2	11.5	14.3
Sep-99	718	10.6	11.5	11.8	12.3	15.4
Oct-99	743	10.0	11.5	12.0	12.4	13.4
Nov-99	719	7.3	8.4	9.4	9.8	10.9
Dec-99	742	5.2	5.6	6.0	6.6	7.5
Jan-00	742	3.8	4.2	4.4	4.9	5.3
Feb-00	695	3.8	3.9	4.1	4.1	4.6
Mar-00	742	3.9	4.4	4.7	5.2	6.1
Apr-00	424	5.5	6.3	6.7	7.2	8.3
May-00	0					



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	320	5.9	8.3	9.2	10.4	13.2
Jun-99	719	7.8	10.0	10.7	11.7	16.2
Jul-99	744	9.3	11.5	13.0	14.9	17.6
Aug-99	742	11.2	13.4	14.1	15.2	18.2
Sep-99	719	9.8	11.3	12.0	13.0	14.6
Oct-99	743	9.0	10.3	10.7	11.2	12.1
Nov-99	519	6.7	8.4	8.9	9.0	9.6
Dec-99	0					
Jan-00	156	3.5	4.1	4.6	4.9	5.5
Feb-00	516	4.1	4.9	5.2	5.4	6.0
Mar-00	249	5.1	5.7	6.2	6.7	8.7
Apr-00	719	5.7	7.3	7.7	8.5	10.5
May-00	731	6.0	7.9	9.0	9.9	13.0

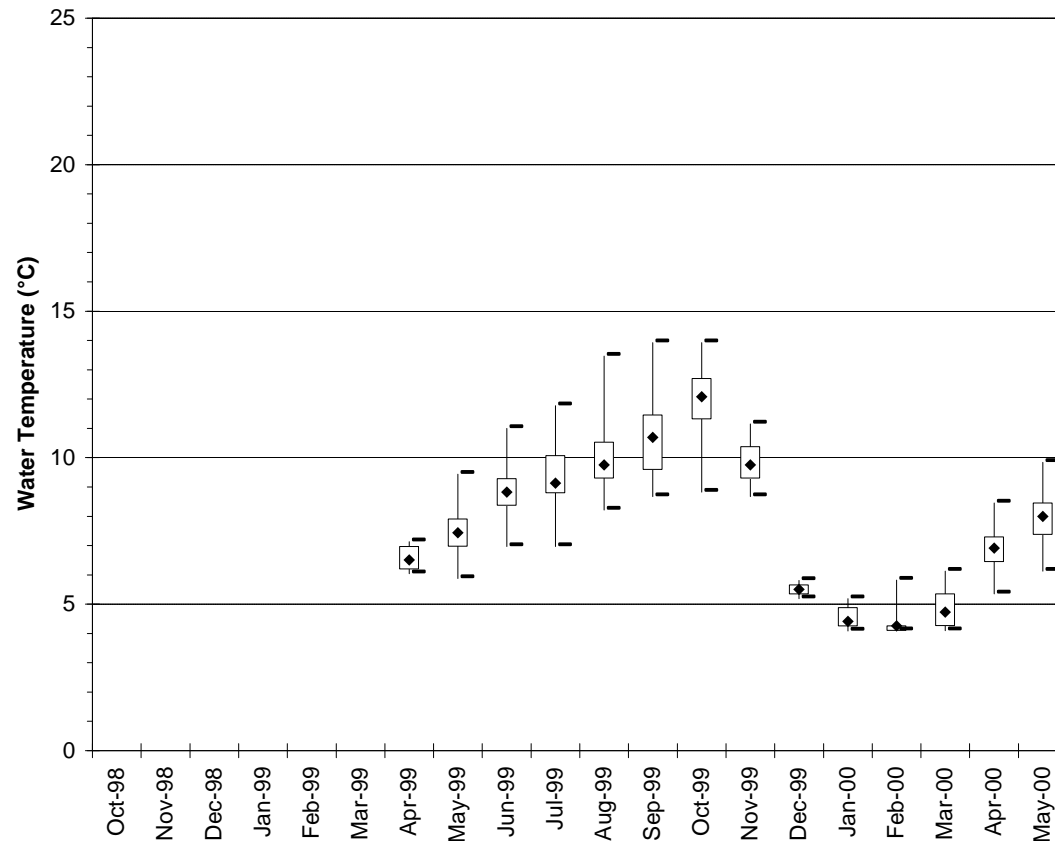
Swift No. 2 Bypass (SW2BL)



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

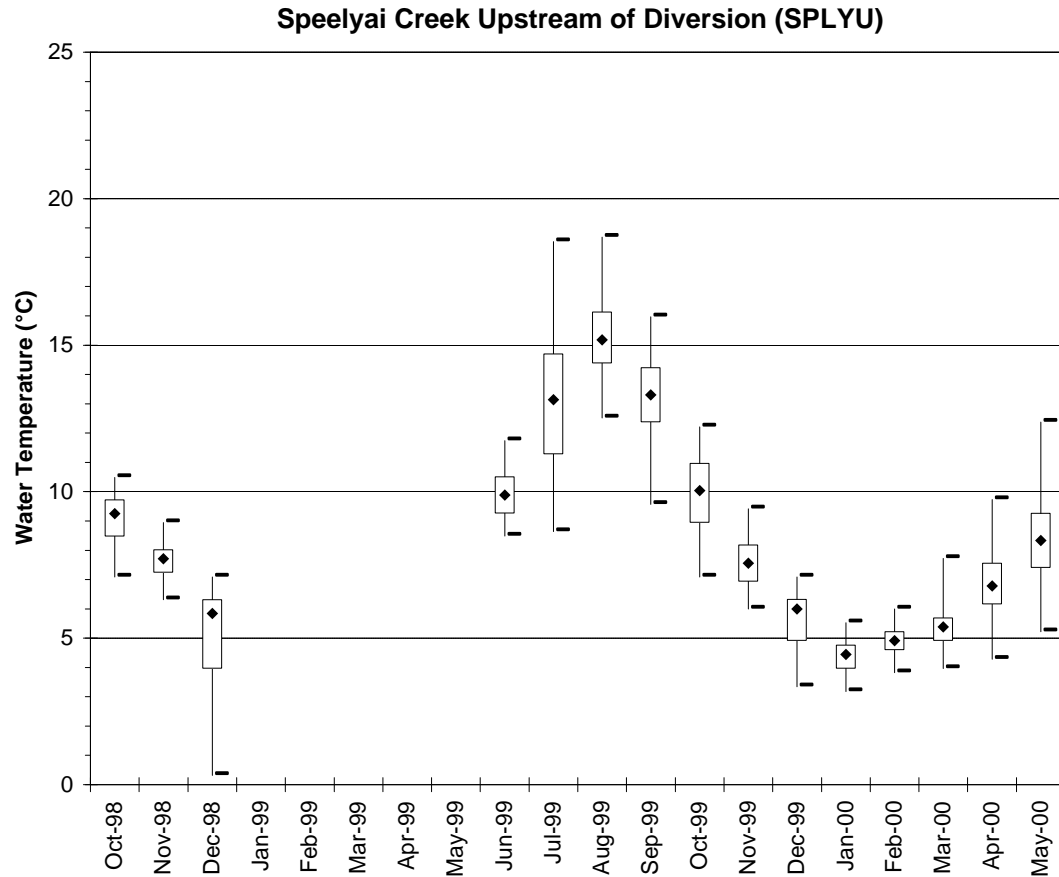
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	81	6.0	6.2	6.5	7.0	7.1
May-99	744	5.9	7.0	7.4	7.9	9.4
Jun-99	719	7.0	8.4	8.8	9.3	11.0
Jul-99	556	7.0	8.8	9.1	10.1	11.8
Aug-99	744	8.2	9.3	9.8	10.5	13.5
Sep-99	718	8.7	9.6	10.7	11.5	13.9
Oct-99	742	8.8	11.3	12.1	12.7	13.9
Nov-99	536	8.7	9.3	9.8	10.4	11.1
Dec-99	275	5.2	5.3	5.5	5.7	5.8
Jan-00	743	4.1	4.3	4.4	4.9	5.2
Feb-00	695	4.1	4.1	4.3	4.3	5.8
Mar-00	743	4.1	4.3	4.7	5.3	6.1
Apr-00	719	5.3	6.4	6.9	7.3	8.4
May-00	731	6.1	7.4	8.0	8.4	9.8

Swift No. 1 Powerhouse Tailrace (SW1TR)



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	272	7.1	8.5	9.3	9.7	10.5
Nov-98	720	6.3	7.2	7.7	8.0	8.9
Dec-98	688	0.3	4.0	5.8	6.3	7.1
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	0					
Jun-99	174	8.5	9.3	9.9	10.5	11.7
Jul-99	743	8.6	11.3	13.1	14.7	18.5
Aug-99	743	12.5	14.4	15.2	16.1	18.7
Sep-99	719	9.6	12.4	13.3	14.2	16.0
Oct-99	742	7.1	8.9	10.0	11.0	12.2
Nov-99	720	6.0	6.9	7.6	8.2	9.4
Dec-99	744	3.3	4.9	6.0	6.3	7.1
Jan-00	743	3.2	4.0	4.4	4.8	5.5
Feb-00	694	3.8	4.6	4.9	5.2	6.0
Mar-00	742	4.0	4.9	5.4	5.7	7.7
Apr-00	719	4.3	6.2	6.8	7.6	9.7
May-00	732	5.2	7.4	8.3	9.3	12.4

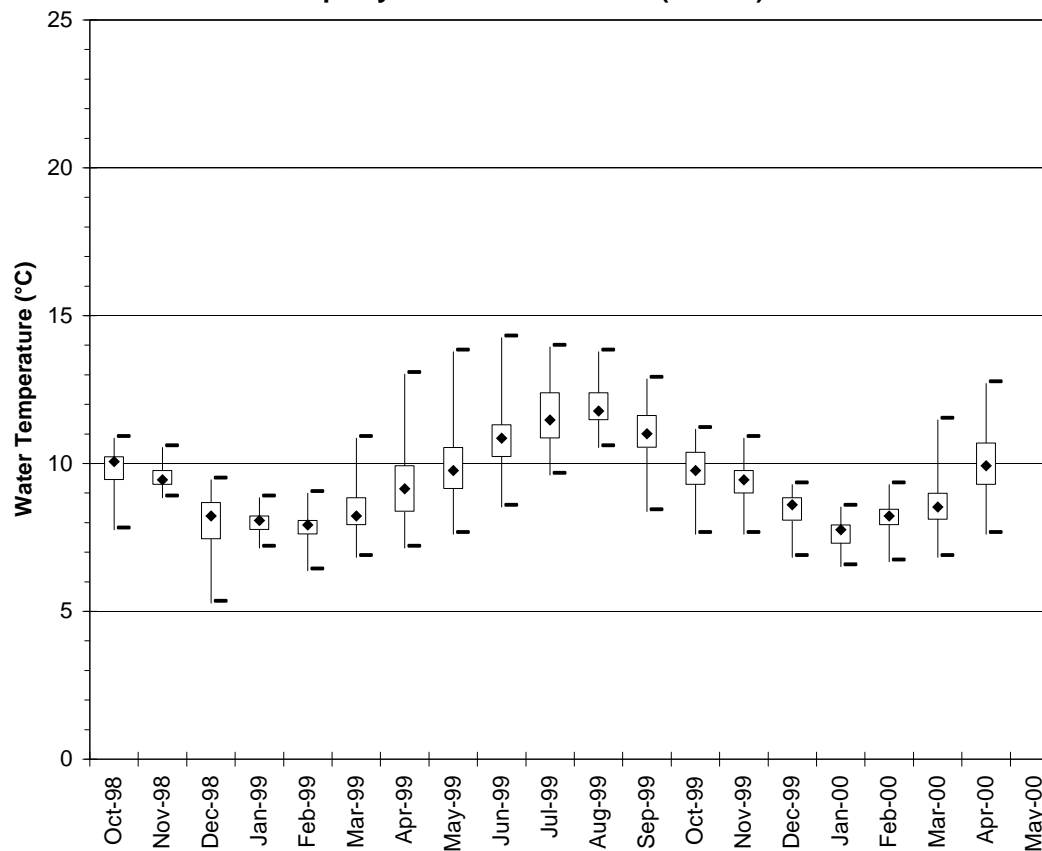


Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.



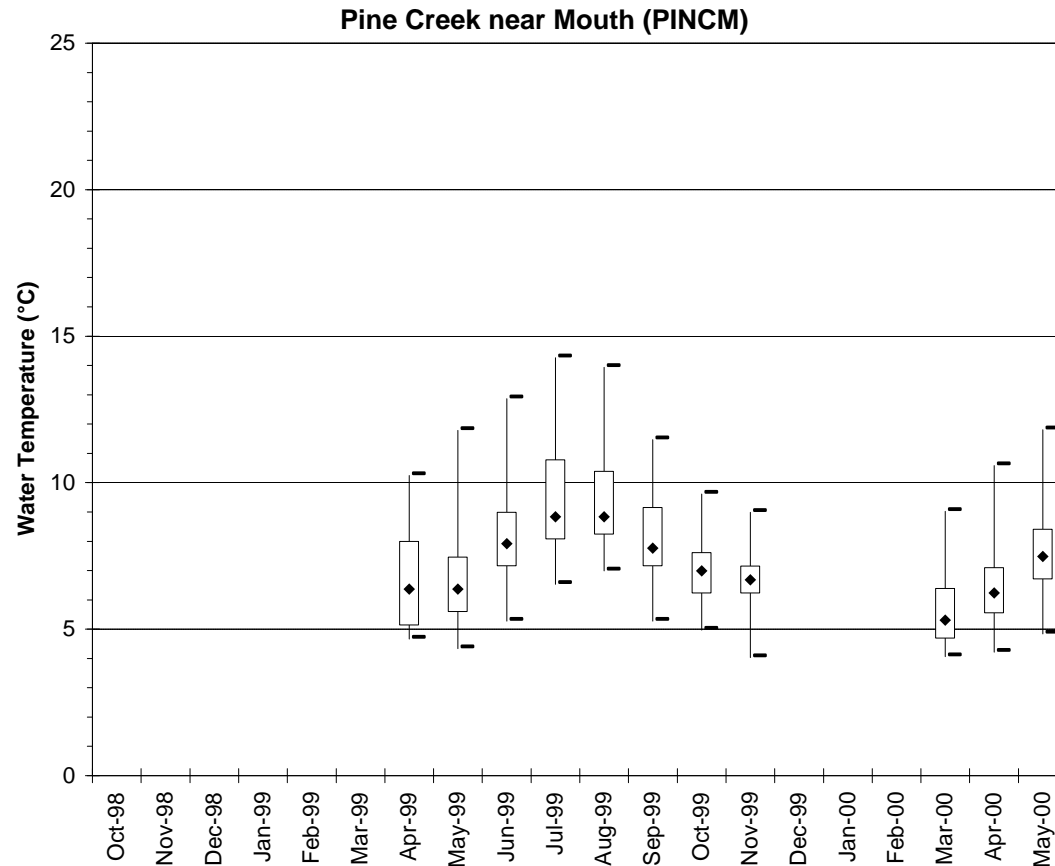
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	272	7.8	9.4	10.1	10.2	10.9
Nov-98	720	8.8	9.3	9.4	9.8	10.5
Dec-98	744	5.3	7.4	8.2	8.7	9.4
Jan-99	744	7.1	7.8	8.1	8.2	8.8
Feb-99	672	6.4	7.6	7.9	8.1	9.0
Mar-99	744	6.8	7.9	8.2	8.8	10.9
Apr-99	720	7.1	8.4	9.1	9.9	13.0
May-99	744	7.6	9.1	9.8	10.5	13.8
Jun-99	718	8.5	10.2	10.9	11.3	14.3
Jul-99	742	9.6	10.9	11.5	12.4	13.9
Aug-99	743	10.5	11.5	11.8	12.4	13.8
Sep-99	719	8.4	10.5	11.0	11.6	12.9
Oct-99	742	7.6	9.3	9.8	10.4	11.2
Nov-99	719	7.6	9.0	9.4	9.8	10.9
Dec-99	742	6.8	8.1	8.6	8.8	9.3
Jan-00	743	6.5	7.3	7.8	7.9	8.5
Feb-00	695	6.7	7.9	8.2	8.5	9.3
Mar-00	742	6.8	8.1	8.5	9.0	11.5
Apr-00	440	7.6	9.3	9.9	10.7	12.7
May-00	0					

Speelyai Creek near Mouth (SPLYL)



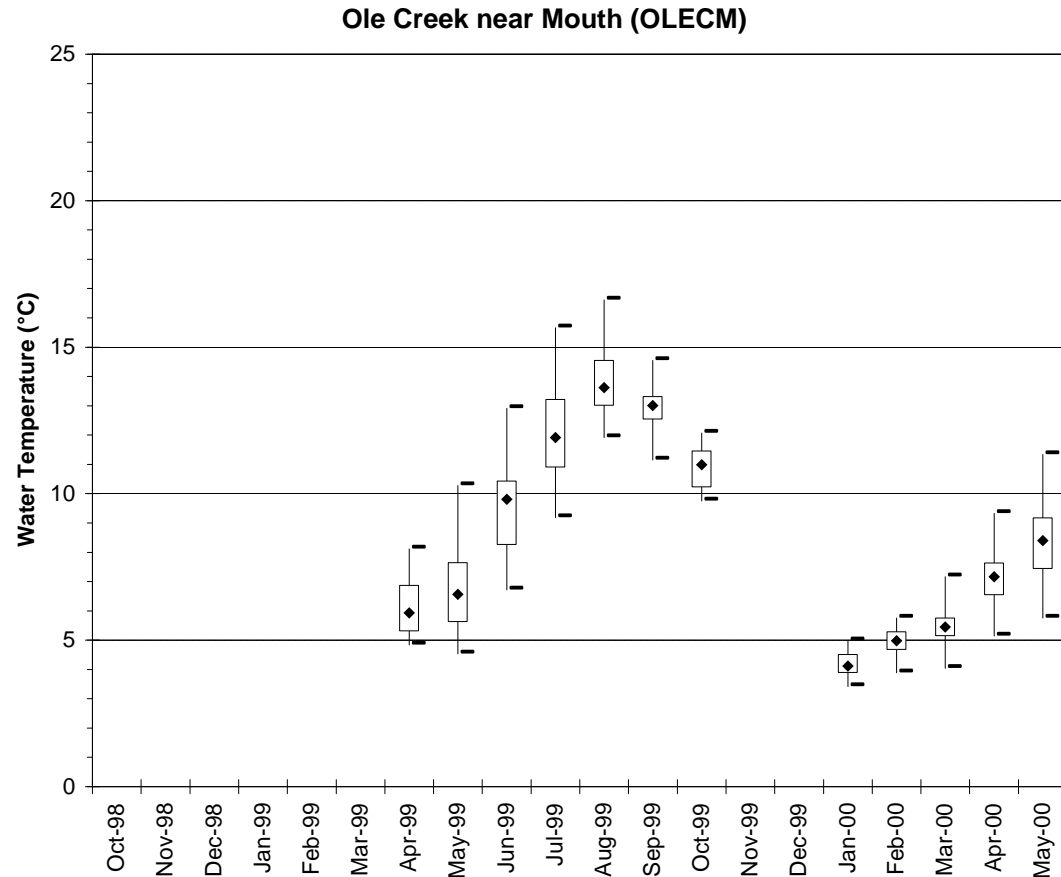
Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	83	4.7	5.1	6.4	8.0	10.2
May-99	743	4.3	5.6	6.4	7.5	11.8
Jun-99	718	5.3	7.2	7.9	9.0	12.9
Jul-99	743	6.5	8.1	8.8	10.8	14.3
Aug-99	742	7.0	8.2	8.8	10.4	13.9
Sep-99	719	5.3	7.2	7.8	9.1	11.5
Oct-99	743	5.0	6.2	7.0	7.6	9.6
Nov-99	513	4.0	6.2	6.7	7.2	9.0
Dec-99	0					
Jan-00	0					
Feb-00	0					
Mar-00	253	4.1	4.7	5.3	6.4	9.0
Apr-00	719	4.2	5.5	6.2	7.1	10.6
May-00	728	4.8	6.7	7.5	8.4	11.8



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

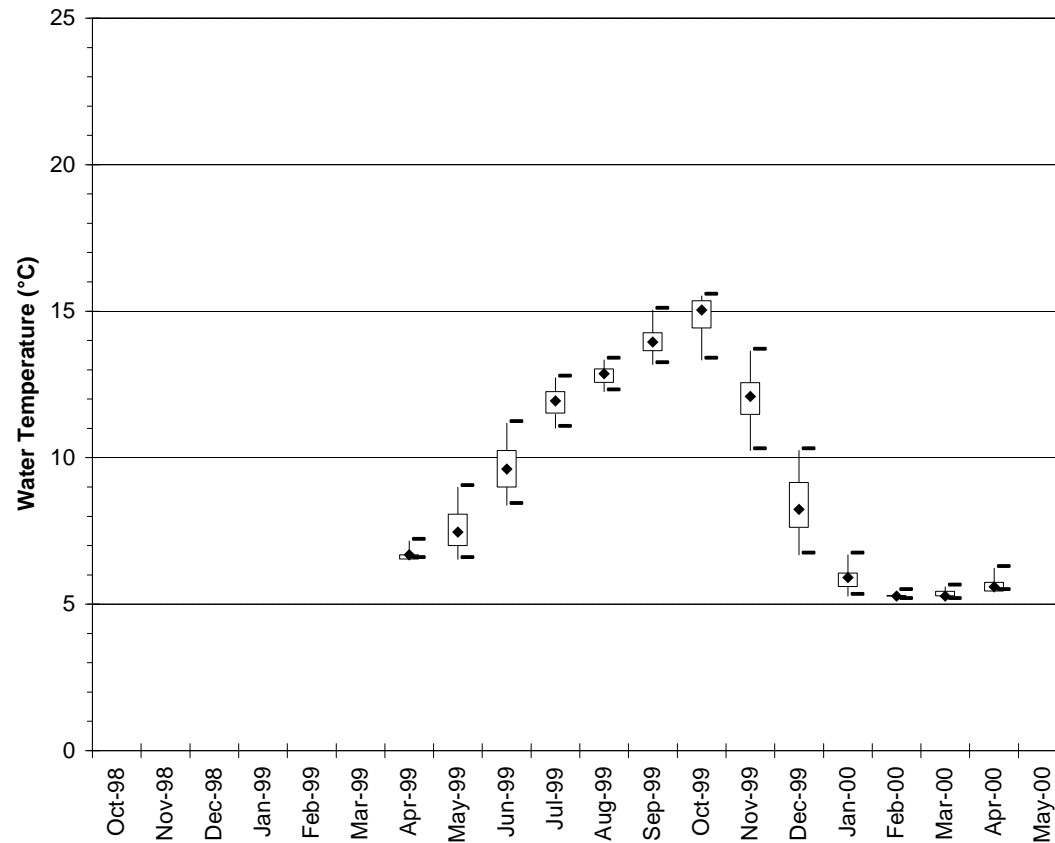
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	81	4.8	5.3	5.9	6.9	8.1
May-99	743	4.5	5.6	6.6	7.6	10.3
Jun-99	719	6.7	8.3	9.8	10.4	12.9
Jul-99	741	9.2	10.9	11.9	13.2	15.7
Aug-99	744	11.9	13.0	13.6	14.6	16.6
Sep-99	718	11.1	12.5	13.0	13.3	14.6
Oct-99	470	9.8	10.2	11.0	11.5	12.1
Nov-99	0					
Dec-99	0					
Jan-00	156	3.4	3.9	4.1	4.5	5.0
Feb-00	695	3.9	4.7	5.0	5.3	5.8
Mar-00	742	4.0	5.1	5.4	5.8	7.2
Apr-00	719	5.1	6.5	7.2	7.6	9.3
May-00	732	5.8	7.4	8.4	9.2	11.3



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

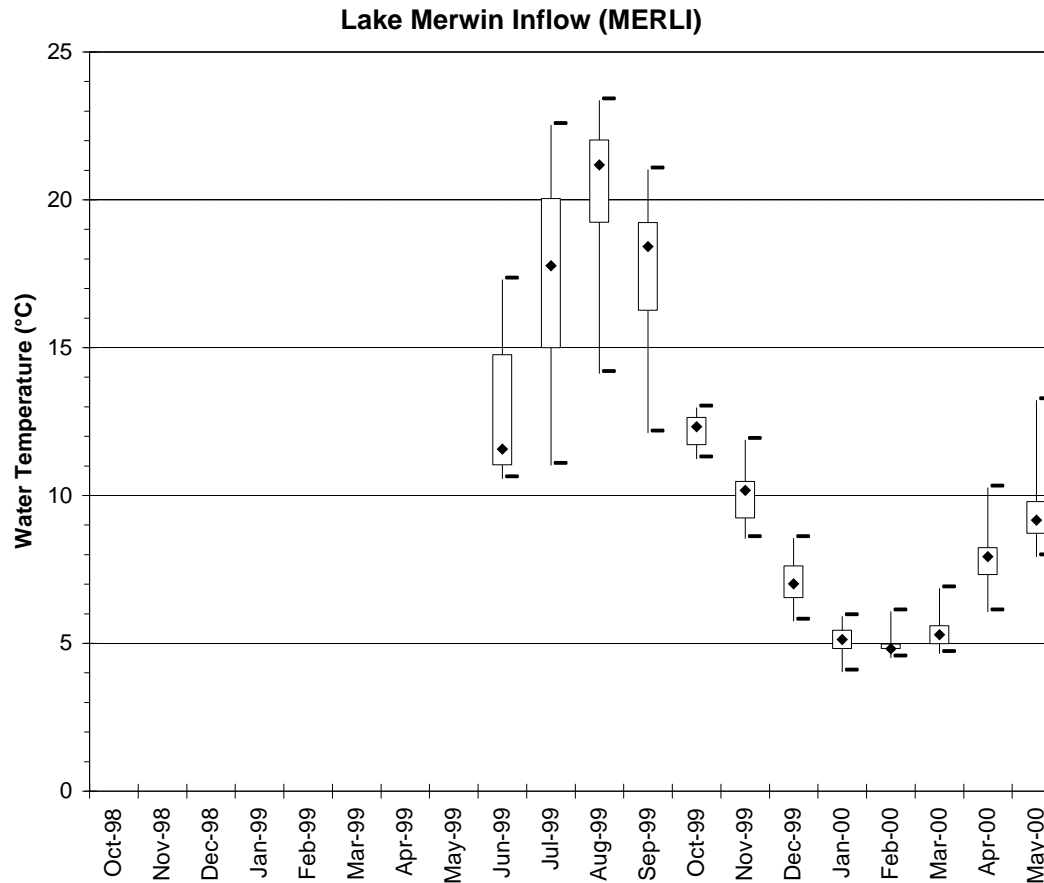
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	85	6.5	6.5	6.7	6.7	7.2
May-99	744	6.5	7.0	7.5	8.1	9.0
Jun-99	719	8.4	9.0	9.6	10.2	11.2
Jul-99	742	11.0	11.5	11.9	12.3	12.7
Aug-99	743	12.3	12.6	12.9	13.0	13.3
Sep-99	719	13.2	13.6	13.9	14.3	15.0
Oct-99	742	13.3	14.4	15.0	15.4	15.5
Nov-99	720	10.2	11.5	12.1	12.6	13.6
Dec-99	743	6.7	7.6	8.2	9.1	10.2
Jan-00	743	5.3	5.6	5.9	6.1	6.7
Feb-00	694	5.1	5.3	5.3	5.3	5.4
Mar-00	743	5.1	5.3	5.3	5.4	5.6
Apr-00	439	5.4	5.4	5.6	5.8	6.2
May-00	0					

**Merwin Powerhouse Tailrace (MERTR)**



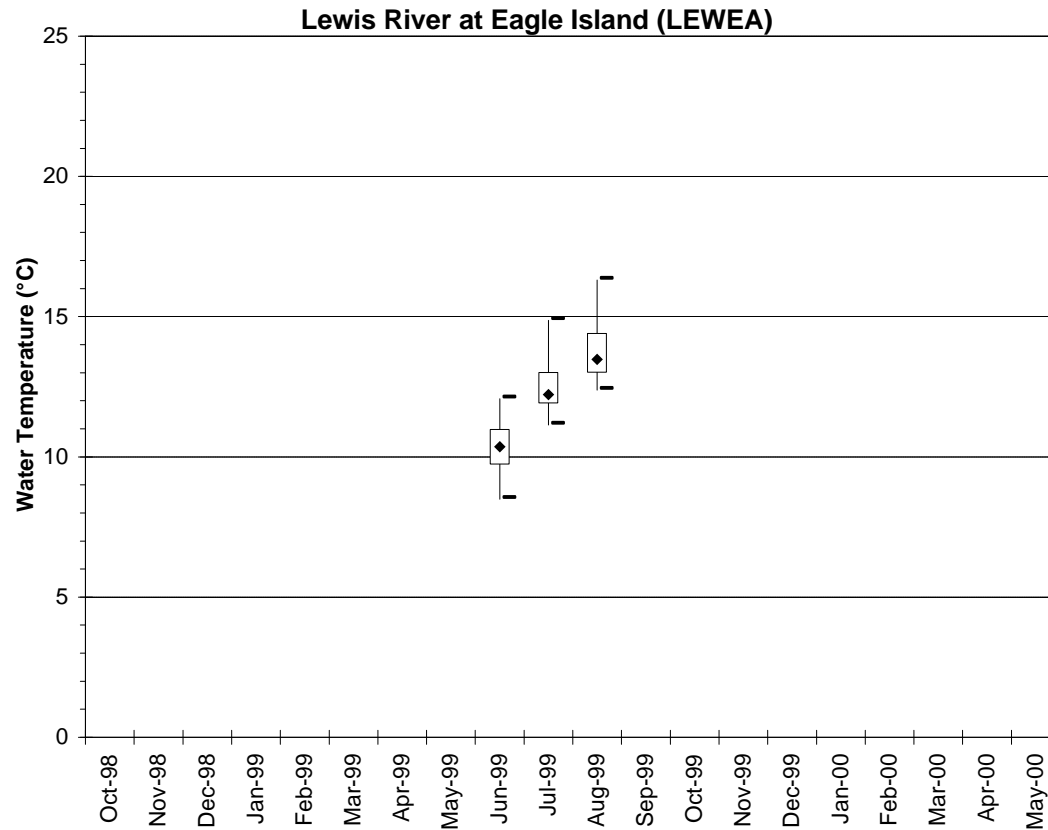
Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	0					
Jun-99	182	10.6	11.0	11.6	14.8	17.3
Jul-99	743	11.0	15.0	17.8	20.0	22.5
Aug-99	743	14.1	19.2	21.2	22.0	23.4
Sep-99	575	12.1	16.3	18.4	19.2	21.0
Oct-99	253	11.2	11.7	12.3	12.6	13.0
Nov-99	712	8.6	9.2	10.2	10.5	11.9
Dec-99	744	5.8	6.5	7.0	7.6	8.6
Jan-00	743	4.0	4.8	5.1	5.4	5.9
Feb-00	695	4.5	4.8	4.8	5.0	6.1
Mar-00	743	4.7	5.0	5.3	5.6	6.8
Apr-00	719	6.1	7.3	7.9	8.2	10.3
May-00	733	7.9	8.7	9.2	9.8	13.2



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

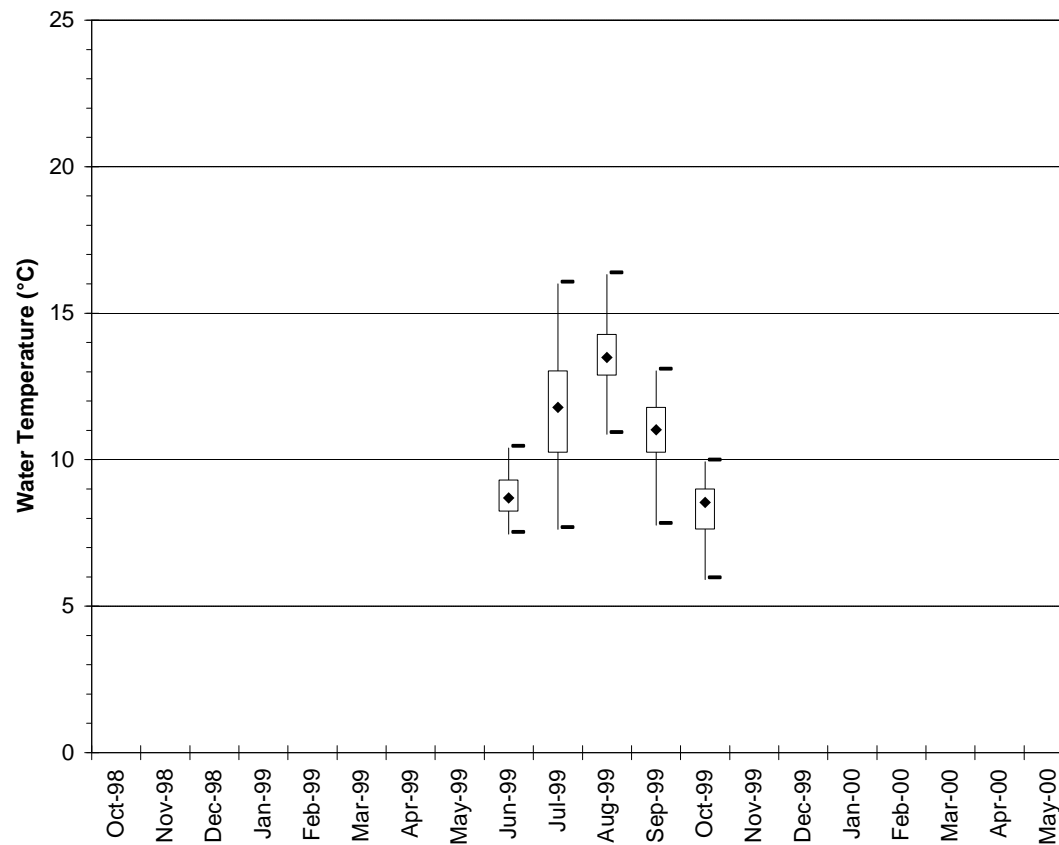
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	0					
Jun-99	686	8.5	9.7	10.4	11.0	12.1
Jul-99	744	11.1	11.9	12.2	13.0	14.9
Aug-99	593	12.4	13.0	13.5	14.4	16.3
Sep-99	0					
Oct-99	0					
Nov-99	0					
Dec-99	0					
Jan-00	0					
Feb-00	0					
Mar-00	0					
Apr-00	0					
May-00	0					



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

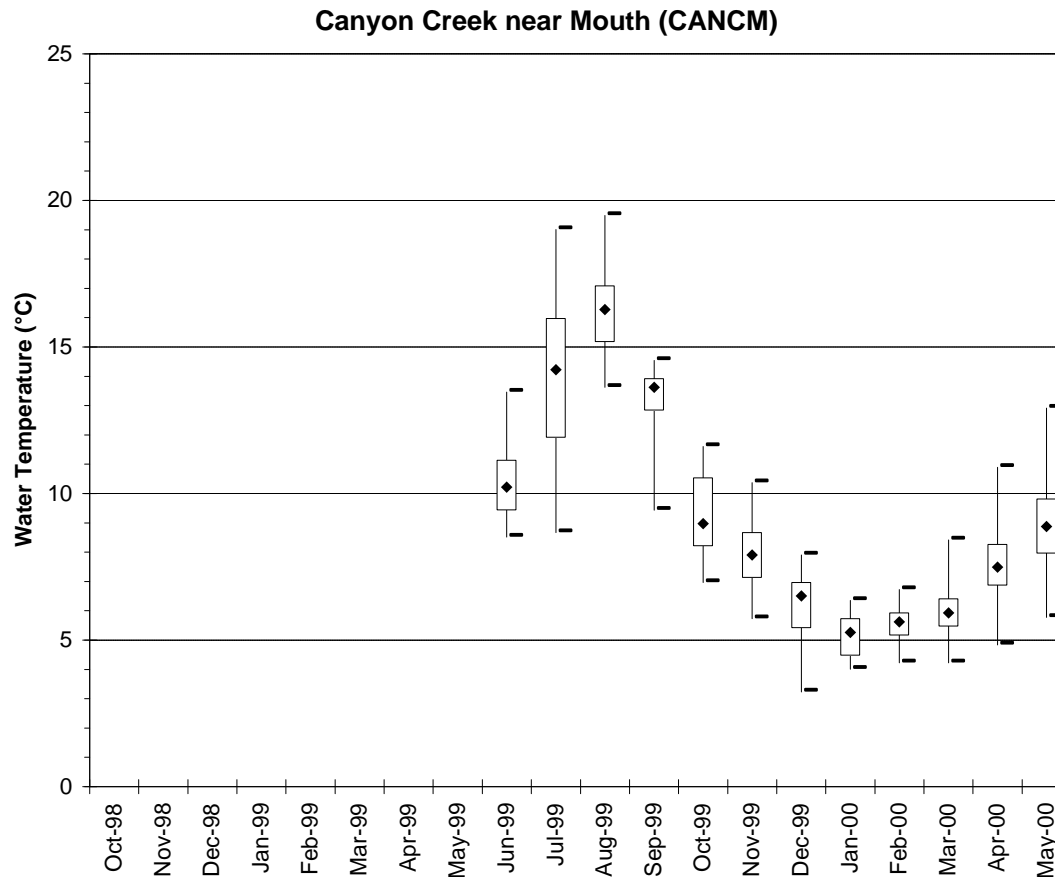
Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	0					
Jun-99	201	7.5	8.2	8.7	9.3	10.4
Jul-99	744	7.6	10.2	11.8	13.0	16.0
Aug-99	742	10.9	12.9	13.5	14.3	16.3
Sep-99	719	7.8	10.2	11.0	11.8	13.0
Oct-99	468	5.9	7.6	8.5	9.0	9.9
Nov-99	0					
Dec-99						
Jan-00						
Feb-00						
Mar-00						
Apr-00						
May-00						

Drift Creek near Mouth (DRICM)



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.

Date	N	Percent Exceedence				
		100%	75%	50%	25%	0%
Oct-98	0					
Nov-98	0					
Dec-98	0					
Jan-99	0					
Feb-99	0					
Mar-99	0					
Apr-99	0					
May-99	0					
Jun-99	181	8.5	9.4	10.2	11.1	13.5
Jul-99	743	8.7	11.9	14.2	16.0	19.0
Aug-99	743	13.6	15.2	16.3	17.1	19.5
Sep-99	720	9.4	12.8	13.6	13.9	14.5
Oct-99	741	7.0	8.2	9.0	10.5	11.6
Nov-99	720	5.7	7.1	7.9	8.7	10.4
Dec-99	744	3.2	5.4	6.5	7.0	7.9
Jan-00	216	4.0	4.5	5.3	5.7	6.3
Feb-00	155	4.2	5.2	5.6	5.9	6.7
Mar-00	744	4.2	5.5	5.9	6.4	8.4
Apr-00	720	4.8	6.9	7.5	8.3	10.9
May-00	733	5.8	8.0	8.9	9.8	12.9



Percent exceedences of hourly water temperature measurements. Bars indicate minimums and maximums, boxes indicate 25 and 75 percent exceedences and diamonds indicate median values.