# THE 2006 SUMMER WATER TEMPERATURE AND FLOW MANAGEMENT PROJECT

NECHAKO FISHERIES CONSERVATION PROGRAM Technical Report No. RM06-1

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## **ABSTRACT**

The 2006 Nechako River Summer Water Temperature and Flow Management Project (the Project) was undertaken to attempt to prevent mean daily water temperatures in the Nechako River above the Stuart River confluence (at Finmoore) from exceeding 20.0°C (68.0°F) between July 20 and August 20. Water temperatures were managed by regulating Skins Lake Spillway releases to control flows in the Nechako River below Cheslatta Falls and at Vanderhoof. Mean daily water temperatures in the Nechako River above the Stuart River confluence did exceed 20.0°C (68.0°F) on July 22 through July 27, 2006, reaching a maximum temperature of 21.72°C (71.1°F) on July 23.

Over the duration of the 2006 Summer Water Temperature and Flow Management Project (July 10 to August 20), the total volume of water released was 7.659.9 m<sup>3</sup>/s-d, (270,509 cfs-d), and the average release during the Project was 182.4 m<sup>3</sup>/s (6,440.7 cfs).

## INTRODUCTION

The Nechako River Summer Water Temperature and Flow Management Project ("STMP") was designed and developed in 1982 and has been successfully implemented since 1983. Since 1988, water temperature and flow management projects (Triton 1995a through Triton 1995h; Triton 1996 through Triton 2005) have been carried out under the auspices of the Nechako Fisheries Conservation Program (NFCP).

The objective of the Project is to attempt to prevent mean daily water temperatures in the Nechako River above the Stuart River confluence (at Finmoore) from exceeding 20.0°C (68.0°F) by regulating releases from the Skins Lake Spillway to control flows in the Nechako River below Cheslatta Falls and at Vanderhoof. The Project is operated from July 10 to August 20 (the operational period) with the goal of managing water temperatures in the Nechako River at Finmoore between July 20 and August 20 (the water temperature control period, hereafter referred to as the control period). These dates may vary as directed by the NFCP in accordance with the timing of sockeye runs in the system. Flows in the Nechako River at Cheslatta Falls are reduced to fall spawning flows by early September.

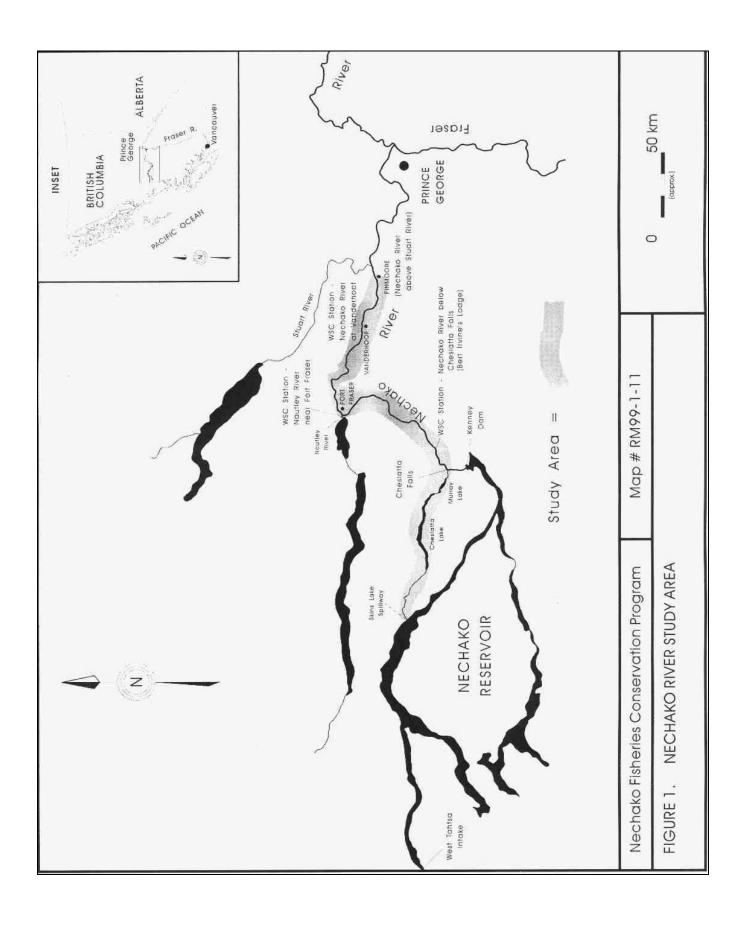
The Project study area is shown in Figure 1. Unless otherwise stated, references to water

temperature, flow (including releases) and meteorological data are mean daily values. Note that water temperature measurements for the Nechako River above the Stuart River confluence are made at Finmoore (the closest readily accessible location), while river discharge measurements are made at Vanderhoof (at the Water Survey of Canada discharge measuring site).

This report reviews the 2006 Summer Water Temperature and Flow Management Project and includes an outline of the method for determining Skins Lake Spillway releases and summaries of the 2006 Skins Lake Spillway releases for the period July 10 to September 6 inclusive; recorded flows (July 10 to September 6) and water temperatures (July 10 to August 20) at various locations along the Nechako River; and the volume of cooling water used in the 2006 Summer Water Temperature and Flow Management Project.

## **METHODS**

Management of the Nechako River flows and water temperatures used water temperature predictions based on five-day meteorological forecasts from Pelmorex Inc. (The Weather Network) to determine the schedule of Skins Lake Spillway releases required to meet project objectives.



The Summer Water Temperature and Flow Management uses an unsteady-state flow routing model and an unsteady-state water temperature prediction model designed to compute flows and water temperatures in the Nechako River daily during the entire operational period (Envirocon Limited, 1984a,b,c and 1985).

Daily operations followed the protocol defined in the Settlement Agreement (Anon. 1987), and involved collection of water temperature and river stage data from several locations in the study area, as well as development of five-day meteorological forecasts. Water temperatures were obtained daily from thermographs maintained in the Nechako River below Cheslatta Falls (at Bert Irvine's Lodge), in the Nechako River at Fort Fraser (upstream of the Nautley River), in the Nechako River above the Stuart River confluence, and in the Nautley River. River stages were obtained daily from Water Survey of Canada recorders maintained in the Nechako River below Cheslatta Falls, in the Nechako River at Vanderhoof, and from a staff gauge in the Nautley River. Five-day meteorological forecasts were e-mailed daily by World Weatherwatch (Pelmorex Inc., www.theweathernetwork.com).

River stage and minimum and maximum water temperature data were obtained daily for each identified location except the Nechako River below Cheslatta Falls. At that location, recorded hourly water temperature and river stage data were obtained from the data collection platform via a routine e-mail from Environment Canada (Water Survey of Canada, WSC), Vancouver. Water levels recorded hourly by WSC in Cheslatta Lake at West End were also obtained from the station's data collection platform. These lake level data were used to assist in the analysis of daily predictions of flow produced by the flow routing model for the Nechako River below Cheslatta Falls, and to account for local inflow to the Cheslatta/Murray Lakes system.

In addition, spot temperatures measured with a calibrated mercury thermometer (+/- 0.1°C)

and corresponding recorded water temperatures were collected daily at each location used to adjust the recorded water temperatures. The spot data enabled an ongoing check of each thermograph. If the spot temperature was higher than the thermograph record, the thermograph record was adjusted to agree with the recorded spot temperature for that day. If the thermograph record was higher than the spot temperature, the thermograph record was not adjusted. This procedure was implemented as a conservative measure.

The first 10 days of the operational period, July 10 to July 19, were utilized for system start up, for initialization of the database required to schedule Skins Lake Spillway releases, and to increase flows in the Nechako River from spring flows to the minimum cooling flow of 170 m<sup>3</sup>/s (6,000 cfs) below Cheslatta Falls. The 2006 Skins Lake Spillway spring base release as directed by the NFCP was 49.0 m<sup>3</sup>/s (1,730 cfs). Upon commencement of the operational period on July 10, the recorded flow in the Nechako River below Cheslatta Falls was 46.5 m<sup>3</sup>/s (1,642 cfs). On July 11, 2006, the Skins Lake Spillway release was increased to 226.5 m<sup>3</sup>/s (8,000 cfs) to ensure flows in the Nechako River below Cheslatta Falls reached the minimum cooling flow of 170 m<sup>3</sup>/s (6,000 cfs) by July 20 (the beginning of the water temperature control period).

Throughout the operational period, water temperatures in the Nechako River were calculated daily for the previous day, the current day and each of the next four days using the unsteady-state flow routing and water temperature prediction models. These calculations were based on recorded and fiveday forecast meteorological data, recorded water temperature and computed flow data. Forecast water temperature predictions were tabulated and reviewed daily to identify trends in water temperature changes. These trends are the same as those used in the water temperature and flow management projects since 1984 (Envirocon Ltd. 1985), and are best explained through reference to Table 1.

Table 1 Daily Operations to Manage Water Temperatures in the Nechako River above the Stuart River Confluence Date 12-Jul 13-Jul 14-Jul 15-Jul 16-Jul\* 17-Jul 18-Jul 19-Jul 20-Jul Fifth Day's Predicted b5 a5 c5 Water Temperature @ Date + 4 Days Fourth Day's Predicted a4 b4 Water Temperature @ Date + 3 Days Third Day's Predicted a3 Water Temperature @ Date + 2 Days Second Day's Predicted a2 b2 Water Temperature @ Date + 1 Day Current Day's Predicted b1 a1 Water Temperature @ Date Previous Day's Calculated observed trend bs as Water Temperature @ Date - 1 Day predicted trend Previous Day's Recorded forecast trend ao bo-Water Temperature @ Date - 1 Day Current Day's Release rb rc @ Date \* The current day (i.e., the day of operation) for this example is July 16.

Assuming the current day is July 16, entries corresponding to the current day's operation are represented by the letter *c*. Entries *co* and *cs* represent the recorded and calculated water temperatures, respectively, for the previous day (July 15). Entries *c1* through *c5* represent predicted water temperatures computed using the current day's five-day meteorological forecast and an assumed current day's flow regime. The entry *rc* represents the current day Skins Lake Spillway release required to meet Project objectives.

The following three trends in water temperature changes were reviewed on a dayby-day basis:

1. Observed trend – developed from recorded mean daily water temperatures measured in the Nechako River above the Stuart River confluence each day (*bo* and *co* in Table 1). The difference in recorded water temperatures for the previous two days is extrapolated over the next five days to

- determine the observed water temperature trend.
- 2. Predicted trend developed from the predicted water temperatures for the previous day and the following five days (*cs, c1, c2, c3, c4, c5,* in Table 1). These data represent the predicted trend.
- 3. Forecast trend developed from the difference between the current five-day and previous five-day predictions for the same calendar days (*c*3 and *b*4, *c*2 and *b*3, *c*1 and *b*2 in Table 1). Differences between forecasted data on coincident dates for the current day and the next two days only are averaged and added to the fifth day predicted temperature to determine the trend in forecasted temperatures.

A numerical example of how the trends are calculated is presented in Appendix A.

Each day predicted water temperatures for the five-day forecast period were checked and the three trends calculated. If two of the three trends indicated that the water temperature in the Nechako River above the Stuart River confluence could potentially exceed 19.4°C (67.0°F) then an increase in the Skins Lake Spillway release was required. When this occurred the current day's release was revised and the flow and temperature models were rerun using the modified flow regime. Results of day's computer run each final were subsequently used to initialize water temperatures for the following dav's computations. Entries in Table 1 represent each day's final cooling water release and resultant predicted water temperatures.

The following release criteria were used with the three trends identified above to determine the timing and magnitude of Skins Lake Spillway releases:

- 1. When two of the three trends show an increase in water temperature in the Nechako River above the Stuart River confluence, and these trends show that potentially the water temperature could exceed 19.4°C (67.0°F), increase the Skins Lake Spillway release according to criteria 2 and 3 below.
- 2. Operate Skins Lake Spillway such that flow in the Nechako River below Cheslatta Falls ranges between 170 m³/s (6,000 cfs) and 283 m³/s (10,000 cfs) as required, and flow in the Nechako River above the Stuart River confluence (as measured at Vanderhoof) does not exceed 340 m³/s (12,000 cfs). It is understood that the flow in the Nechako River below Cheslatta Falls is to be not less than 170 m³/s (6,000 cfs) by the beginning of the control period, and is to be reduced to approximately 31.2 m³/s (1,100 cfs) by September 6.
- 3. At any time, increase the Skins Lake Spillway release from the current level to 453 m<sup>3</sup>/s (16,000 cfs) to achieve the flow changes in the Nechako River as fast as possible.
- 4. During cooling periods when two of three trends in forecasted water temperatures are decreasing and these trends indicate that potentially the water temperature could drop below 19.4°C (67.0°F) within the forecast period (five days), reduce the Skins Lake Spillway release from the current level to 14.2 m³/s (500 cfs).

## **RESULTS**

Predicted and recorded mean daily water temperatures for the Nechako River above the Stuart River confluence, Skins Lake Spillway releases and changes in Skins Lake Spillway releases over the duration of the Project operational period are summarized in Table 2.

Recorded mean daily water temperatures in the Nechako River above the Stuart River confluence (Figure 2 and Table 3) exceeded 20.0°C (68.0°F) July 22 through July 27. The respective maximum and minimum mean daily water temperatures recorded during the control period were 21.7°C (71.1°F) on July 23, and 17.3°C (63.1°F) on July 31 and August 3, 2006. Mean daily water temperatures in the Nechako River below Cheslatta Falls, near Fort Fraser and above the Stuart River confluence, and in the Nautley River near Fort Fraser are presented in Appendix B.

Skins Lake Spillway releases and their corresponding flows in the Nechako River below Cheslatta Falls and at Vanderhoof are plotted in Figure 3 (source data are provided in Appendix C). Changes in Skins Lake Spillway releases during the STMP were made on the following dates:

- July 11 Increase to 226.5 m<sup>3</sup>/s to increase flow in Nechako River below Cheslatta Falls to STMP base flow by July 20.
- July 18 Increase to 453 m³/s to increase flow in Nechako River below Cheslatta Falls in response to warming trend.
- 3. July 21 Decrease to 283 m³/s to limit flow in Nechako River below Cheslatta Falls to maximum of 283 m³/s.
- 4. July 24 Decrease to 14.2 m<sup>3</sup>/s to decrease flow in Nechako River below Cheslatta Falls in response to cooling trend.
- 5. July 27 Increase to 170 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at summer base flow.
- 6. August 18 Decrease to 14.2 m³/s to decrease flow in Nechako River below Cheslatta to fall spawning flow.
- 7. September 1 Increase to 32.4 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at fall spawning flow.

During the control period, measured flows in the Nechako River below Cheslatta Falls (based on preliminary WSC data from the WSC data collection platform at Bert Irvine's Lodge) ranged between a maximum of 288 m³/s (10,171 cfs) on July 24 and a minimum of 143 m³/s (5,050 cfs) on August 20. Flows measured in the Nechako River at Vanderhoof ranged between a maximum of 362 m³/s (12,784 cfs) on July 25 and 26 and a minimum of 201 m³/s (7,098 cfs) on August 20. Following the control period, the mean daily flow in the Nechako River below Cheslatta Falls was reduced to 37.7 m³/s (1,331 cfs) by September 6.

## DISCUSSION

The discussion of the 2006 Summer Water Temperature and Flow Management Project has been divided into three sections. The first section reviews the collection and use of recorded field data, including water temperature, flow, and meteorological data (recorded and forecast). The second section discusses the volume of water used during the 2006 Summer Water Temperature and Flow Management Project. The third section provides a brief discussion of the application of the Project release criteria.

## Recorded Data

The modelling procedure was initialized using recorded conditions. The quality of the field data used in the modelling process directly affects the accuracy of the computed water temperatures. Therefore, data must be collected accurately and consistently to ensure that random errors are kept to a minimum. Further, consistency in data collection techniques also ensures that, if a bias exists in the data, it remains relatively constant throughout the project.

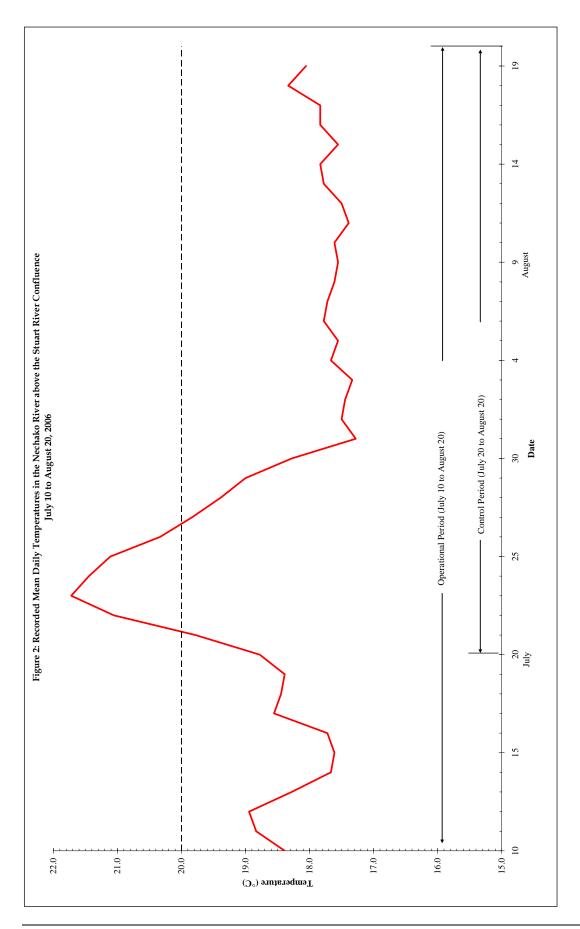
In 2006, river discharges in the Nechako River below Cheslatta Falls and at Vanderhoof as recorded by the Water Survey of Canada changed as expected in response to Skins Lake

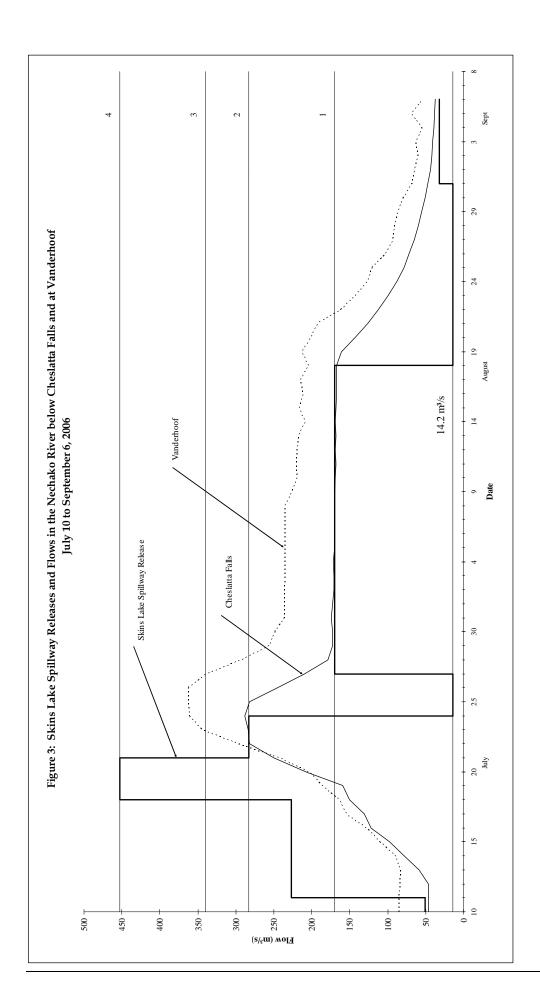
August 20, 2006	22 23 24 25 26 27 28 29 30	20.2 20.1 20.1 20.2 19.8 19.3 19.2 19.2 19.0	20.0 19.8 20.7 20.9 20.0 19.4 19.3 19.2 19.1 17.6	19.4 21.1 21.8 21.2 20.1 19.5 19.4 19.3 17.9	21.2 22.5 22.3 21.4 20.3 19.9 19.8 18.7 18.7	22.1 22.5 22.1 21.4 20.6 20.2 19.7 19.5 17.8	22.0 22.4 22.1 21.3 20.5 20.1 20.0 19.3 17.9	21.1 21.7 21.4 21.1 20.3 19.8 19.4 19.0 18.3	10000 10000 10000 500 500 500 6000 6000
Confluence, July 10 to	19 20 21	18.8 19.1 19.2	18.9 18.9 19.8	18.8 19.1 19.7	18.8 19.6 18.9	19.4 18.8 20.4	19.0 19.1 20.6	18.4 18.8 19.8	16000 16000 16000 to to 10000 @ @ 11000 hrs
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o River above t	15 16	17.3 17.6	17.1 17.7	17.5 17.8	18.1 17.8	18.0 18.3	18.2 18.5	17.6 17.7	0008 0008
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ın Daily Water	10 11				20.0	21.2 19.3	21.4 19.3	18.4 18.8	1730 1730 to 8000 @ 1100 hrs
Table 2 Predicted and Recorded Mean Daily Water Temperatures in the Nechako River above the Stuart River Confluence, July 10 to August 20, 2006  JULY	Date	5th Day's Predicted Water Temperature at Date + 4 Days	4th Day's Predicted Water Temperature at Date + 3 Days	3rd Day's Predicted Water Temperature at Date + 2 Days	2nd Day's Predicted Water Temperature at Date +1 Day	Current Day's Predicted Water Temperature at Date	Previous Day's Calculated Water Temperature at Date - 1 Day	Previous Day's Recorded Water Temperature at Date - 1 Day	Current Day's Skins Lake Spillway Release at Date (m²/s)

	20	17.8	17.9	18.2	18.5	18.6			200
	19	17.8 1	18.2 1	18.1 1	18.8 1	18.9 1	18.9	18.1	200
	18	17.8 1	18.1 1	18.4 1	18.7 1	19.0 1	19.1 1	18.3 1	6000 5 to 500 © 0800 hrs
	17	17.4 1	17.7 1	18.1 1	18.6 1	18.8 1	18.8 1	17.8 1	6000 60
	16	17.3 1	17.7 1	17.8 1.	18.0 1	18.4	18.3 1	17.8 1	0009
	15 1	18.1 1.	17.6 17.	17.9 17.	18.2 18	18.0 18	18.1 18	17.6 1.	0009
	14 1	18.1 18	18.6 15	18.0 15	18.3 18	18.5 18	18.5 18	17.8 15	0009
	13 1	17.9 18	18.3 18	18.8 18	18.6 18	18.3 18	18.3 18	17.8 17	0009
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TSI		.4 17.4	.1 17.7	.7 18.1	.1 18.9	.5 18.5		.4 17.5	0009
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Table 2 (continued)	10	1 18.3	5 17.4	3 16.8	0 18.1	1 18.3	0 18.3	6 17.6	0009
ole 2 (co	6	5 18.1	3 18.5	) 17.3	3 17.0	1 18.1	) 18.0	5 17.6	0009
Tak	∞	18.6	18.3	18.9	17.8	17.4	17.9	17.6	0009
	7	18.0	18.1	18.2	19.2	18.4	18.1	17.7	0009
	9	18.0	17.6	17.5	18.4	18.9	18.5	17.8	0009
	rv	17.7	17.6	17.5	17.4	18.4	18.5	17.6	0009
	4	17.3	17.2	17.2	17.8	17.7	18.2	17.7	0009
	3	16.9	16.9	16.9	17.2	17.9	17.7	17.3	0009
	2	17.5	16.6	16.7	17.1	17.6	17.8	17.4	0009
	1	17.6	17.4	16.4	16.7	17.6	17.7	17.5	0009
	Date	5th Day's Predicted Water Temperature at Date + 4 Days	4th Day's Predicted Water Temperature at Date + 3 Days	3rd Day's Predicted Water Temperature at Date + 2 Days	2nd Day's Predicted Water Temperature at Date + 1 Day	Current Day's Predicted Water Temperature at Date	Previous Day's Calculated Water Temperature at Date - 1 Day	Previous Day's Recorded Water Temperature at Date - 1 Day	Current Day's Skins Lake Spillway Release at Date (m²/s)

Table 3
Recorded Mean Daily Water Temperatures in the Nechako River above the Stuart River Confluence, July 10 to August 20, 2006

	Water		Water
Date	Temperature	Date	Temperature
	(°C)		(°C)
10-Jul	18.4	1-Aug	17.5
11-Jul	18.8	2-Aug	17.4
12-Jul	18.9	3-Aug	17.3
13-Jul	18.3	4-Aug	17.7
14-Jul	17.7	5-Aug	17.6
15-Jul	17.6	6-Aug	17.8
16-Jul	17.7	7-Aug	17.7
17-Jul	18.6	8-Aug	17.6
18-Jul	18.4	9-Aug	17.6
19-Jul	18.4	10-Aug	17.6
20-Jul	18.8	11-Aug	17.4
21-Jul	19.8	12-Aug	17.5
22-Jul	21.1	13-Aug	17.8
23-Jul	21.7	14-Aug	17.8
24-Jul	21.4	15-Aug	17.6
25-Jul	21.1	16-Aug	17.8
26-Jul	20.3	17-Aug	17.8
27-Jul	19.8	18-Aug	18.3
28-Jul	19.4	19-Aug	18.1
29-Jul	19.0	20-Aug	
30-Jul	18.3		
31-Jul	17.3		





Spillway releases (Figure 3). The hourly stage data from the gauging stations located on the Nechako River below Cheslatta Falls and at the west end of Cheslatta Lake proved very useful in verifying the daily predictions of the flow routing model and to account for changes in the local inflow to the Cheslatta/Murray Lakes system.

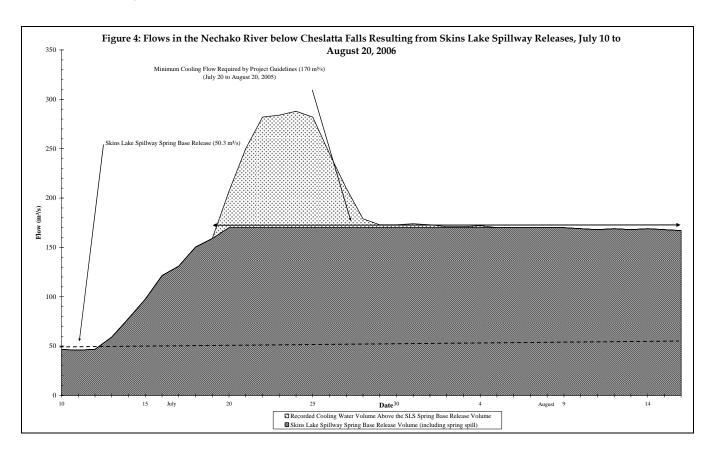
As previously stated, spot and corresponding recorder (thermograph) water temperatures were collected during each site visit. The thermograph water temperatures were not consistently higher or lower than their associated spot temperatures.

## Volume of Water Used

Figure 4 presents the recorded flows in the Nechako River below Cheslatta Falls for the 2006 Summer Water Temperature and Flow Management Project. Also indicated is the minimum cooling flow of 170 m<sup>3</sup>/s (6,000 cfs)

in the Nechako River below Cheslatta Falls, and the Skins Lake Spillway spring base release of 49.0 m³/s (1,730 cfs) as determined by the NFCP Technical Committee as part of the "Annual Water Allocation" defined in the 1987 Settlement Agreement (Anon. 1987).

The total volume of water released during the 2006 Summer Water Temperature and Flow Management Project operational period was  $7,659.9 \text{ m}^3/\text{s-d}$ , (270,509 cfs-d). The volume released for cooling purposes was 5,622.6 m<sup>3</sup>/sd (198,561 cfs-d), and is based on an assumed Skins Lake Spillway release of 49.0 m<sup>3</sup>/s (1,730 cfs) for the period July 10 to August 18, inclusive, with a reduction to 14.2 m<sup>3</sup>/s (500 cfs) until August 20. The average release during the operational period was 182.4 m<sup>3</sup>/s (6,440.7 cfs). Volume calculations are presented Appendix E.



## Application of the Summer Water Temperature and Flow Management Project Release Criteria

The Summer Water Temperature and Flow Management Project is very sensitive to the accuracy of meteorological forecasting. If an increase or decrease in temperature occurs over a prolonged period of time (three or four days), inaccurate meteorological forecasts may predict the reversal of the temperature change prematurely. In these instances, it may be required to exercise judgment when applying the Summer Water Temperature and Flow Management Project release criteria used with the three water temperature trends. This judgment is based on experience gained in the operation of the Summer Water Temperature and Flow Management Project since 1984 and may result in exceptions to the decision based on strict adherence to the release criteria.

One exception was made to the application of the release criteria during the 2006 operational period, on July 20, 2006. On July 20, 2006, one of three water temperature trends indicated that the water temperature could exceed 19.4°C (67.0°F) in the Nechako River above Stuart River within the forecast period (five days). The remaining two trends showed that the water temperature could hit 19.4°C (66.9°F) and 18.1°C (64.6°F). Following the release criteria under these conditions, the release from Skins Lake Spillway should have been decreased from the current release of 453 m<sup>3</sup>/s (16,000 cfs) to 14.2 m<sup>3</sup>/s (500 cfs). However, there was no strong indication that a cooling trend would actually occur. Therefore, as a conservative measure, it was decided to maintain the spillway release at 453 m<sup>3</sup>/s (16,000 cfs) until the cooling trend was clearly established.

Mean daily water temperatures in the Nechako River above Stuart River exceeded 20.0°C (68.0°F) on July 22 through July 27, 2006; reaching maximum temperatures of 21.72°C (71.1°F) on July 23. During this period, flow in the Nechako River below Cheslatta Falls was at or exceeded the maximum allowable level of

283 m<sup>3</sup>/s (10,000 cfs), and thus no further action could be taken.

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# APPENDIX A Numerical Example of Water Temperature Trend Calculation

## Appendix A

## Numerical Example of Water Temperature Trend Calculation

From data for July 16 date of operation (Table A1).

## 1. Observed Trend

The observed trend is down by  $0.1^{\circ}$ C from  $17.7^{\circ}$ C (J14) to  $17.6^{\circ}$ C (J15). Take the previous day's recorded temperature  $17.6^{\circ}$ C (J15) and extrapolate the trend for five days at  $-0.1^{\circ}$ C. The observed trend shows that the water temperature could potentially reach  $17.7^{\circ}$ C +  $5(-0.1^{\circ}$ C) =  $17.2^{\circ}$ C.

## 2. Predicted Trend

The predicted trend is the difference between the previous day's calculated water temperature (J15) and the fifth day predicted water temperature (J20). The predicted trend is up from 17.6°C to 19.1°C with the potential to reach 19.1°C.

## 3. Forecast Trend

The forecast trend for the current day of July 16 is based on the first, second and third day forecasts.

July 16	17.8 to 18.3	=	up	0.5°C
July 17	18.0 to 18.8	=	up	0.8°C
July 18	18.4 to 18.9	=	up	0.5°C

Mean of 3 differences = up 0.6°C

This mean of  $0.6^{\circ}$ C is added to the fifth day predicted water temperature to give  $19.1^{\circ}$ C +  $(0.6^{\circ}$ C) =  $19.7^{\circ}$ C.

	JULY										
Date	10	11	12	13	14	15	16	17	18	19	20
5th Day's Predicted											
Water Temperature					18.2	17.3	17.6	18.2	18.2	18.8	19.1
at Date + 4 Days											
4th Day's Predicted											
Water Temperature				18.4	16.8	17.1	17.7	17.8	18.4	18.9	
at Date + 3 Days											
3rd Day's Predicted											
Water Temperature			19.0	17.2	17.1	17.5	17.8	18.0	18.9		
at Date + 2 Days											
2nd Day's Predicted											
Water Temperature		20.0	18.3	17.6	17.7	18.1	17.8	18.8			
at Date + 1 Day											
Current Day's Predicted											
Water Temperature	21.2	19.3	18.4	18.3	18.0	18.0	18.3				
at Date											
Previous Day's Calculated											
Water Temperature	21.4	19.3	18.6	18.3	18.0	18.2					
at Date - 1 Day											
Previous Day's Recorded											
Water Temperature	18.4	18.8	18.9	18.3	17.7	17.6					
at Date - 1 Day											
Current Day's											
Skins Lake Spillway Release	1730	1730	8000	8000	8000	8000	8000	8000	8000	16000	1600
at Date		to							to		
$(m^3/s)$		8000							16000		
		@							@		
		1100 hrs							1600 hrs		

# APPENDIX B Mean Daily Water Temperatures in the Nechako and Nautley Rivers, 2006

Appendix B

Mean Daily Water Temperatures in the Nechako and Nautley Rivers, 2006

	Nechako River			Nautley		N	Nechako River			
Date	Cheslatta Falls (°C)	Fort Fraser (°C)	above the Stuart River (°C)	Fort Fraser (°C)	Date	Cheslatta Falls (°C)	Fort Fraser (°C)	above Stuart River (°C)	Fort Fraser (°C)	
10-Jul	18.4	18.8	18.4	16.9	1-Aug	17.2	17.8	17.5	17.2	
10-jul 11-Jul	17.7	18.3	18.8	18.2	2-Aug	16.9	17.6	17.3	16.7	
-	17.7 17.6	17.9	18.9	18.1	•		17.8	17.4	16.7	
12-Jul					3-Aug	16.9				
13-Jul	17.2	17.8	18.3	17.9	4-Aug	16.8	18.3	17.7	17.1	
14-Jul	17.4	17.4	17.7	17.7	5-Aug	16.7	18.4	17.6	17.2	
15-Jul	17.4	17.6	17.6	17.1	6-Aug	16.7	18.0	17.8	17.3	
16-Jul	17.4	18.5	17.7	17.5	7-Aug	16.5	17.6	17.7	17.3	
17-Jul	17.4	18.4	18.6	17.0	8-Aug	16.4	17.8	17.6	17.4	
18-Jul	17.0	18.0	18.4	17.1	9-Aug	16.4	17.5	17.6	17.3	
19-Jul	16.8	18.2	18.4	17.4	10-Aug	16.6	17.9	17.6	17.3	
20-Jul	17.1	18.5	18.8	18.4	11-Aug	16.7	18.4	17.4	17.5	
21-Jul	17.5	19.8	19.8	20.0	12-Aug	16.5	17.9	17.5	16.9	
22-Jul	17.9	20.4	21.1	21.7	13-Aug	16.5	17.8	17.8	17.4	
23-Jul	18.2	20.5	21.7	20.8	14-Aug	16.5	18.2	17.8	17.3	
24-Jul	18.4	20.3	21.4	20.3	15-Aug	16.0	17.5	17.6	16.7	
25-Jul	18.4	19.9	21.1	20.4	16-Aug	16.6	18.0	17.8	17.4	
26-Jul	18.4	19.8	20.3	19.7	17-Aug	16.9	18.7	17.8	18.1	
27-Jul	18.2	19.3	19.8	19.3	18-Aug	17.0	18.6	18.3	18.2	
28-Jul	18.2	19.3	19.4	19.4	19-Aug	16.9	18.2	18.1	17.8	
29-Jul	17.8	17.9	19.0	18.6	20-Aug					
30-Jul	17.4	17.4	18.3	17.8	8					
31-Jul	17.4	17.4	17.3	17.5						
- Jul				<del>-</del>						

## **APPENDIX C**

Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2006

Appendix C

Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2006

	Skins Lake	Necha	ko River	Nautley River
	Spillway	Cheslatta	At	Fort
	Release	Falls	Vanderhoof	Fraser
Date	$(m^3/s)$	$(m^3/s)$	$(m^3/s)$	$(m^3/s)$
10-Jul	50.3	46.5	84.4	29.5
11-Jul	50.3 to 226.5	45.9	84.2	29.4
,	@ 1100 hrs			
12-Jul	226.5	46.7	84	28.2
13-Jul	226.5	59.1	82.7	29.4
14-Jul	226.5	78.0	89.2	23.1
15-Jan	226.5	97.5	109.0	28.6
16-Jan	226.5	121.5	126.0	27.8
17-Jan	226.5	131.0	154.0	27.5
18-Jan	226.5 to 453	150.3	162.4	27.1
	@ 1600 hrs			
19-Jul	453	159.0	185.0	26.0
20-Jul	453	207.0	202.0	25.3
21-Jul	453 to 283	250.0	241.0	25.0
	@ 1100 hrs			
22-Jul	283	282.0	295.0	25.0
23-Jul	283	284.0	343.0	24.3
24-Jul	283 to 14.2	288.0	360.0	23.9
	@ 1600 hrs		360.0	
25-Jul	14.2	282.0	362.0	23.3
26-Jul	14.2	245.0	362.0	23.3
27-Jul	14.2 to 170	210.0	338.0	22.3
	@ 1300 hrs			
28-Jul	170	179.0	293.0	21.6
29-Jul	170	173.0	255.0	22.0
30-Jul	170	173.0	248.0	22.9
31-Jul	170	174.0	236.0	22.3
1-Aug	170	173.0	236.0	22.6
2-Aug	170	171.0	236.0	22.3
3-Aug	170	171.0	235.0	22.3
4-Aug	170	172.0	235.0	22.6
5-Aug	170	170.0	235.0	21.6
6-Aug	170	170.0	235.0	21.3
7-Aug	170	170.0	235.0	21.0
8-Aug	170	170.0	235.0	20.7
9-Aug	170	170.0	226.0	20.7
10-Aug	170	169.0	219.0	20.7
11-Aug	170	168.0	220.0	20.0
12-Aug	170	169.0	219.0	19.7
13-Aug	170	168.0	217.0	19.0
14-Aug	170	169.0	208.0	18.7

Appendix C (Continued)

Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2006

	Skins Lake	Necha	ko River	Nautley River
	Spillway	Cheslatta	At	Fort
	Release	Falls	Vanderhoof	Fraser
Date	$(m^3/s)$	$(m^3/s)$	$(m^3/s)$	$(m^3/s)$
19-Aug	14.2	161.0	213.0	17.2
20-Aug	14.2	143.0	201.0	16.3
21-Aug	14.2	126	192	
22-Aug	14.2	112	161	
23-Aug	14.2	99.9	142	
24-Aug	14.2	88.5	126	
25-Aug	14.2	78.6	120	
26-Aug	14.2	72	102	
27-Aug	14.2	64.8	92.5	
28-Aug	14.2	59.6	91.1	
29-Aug	14.2	55	85.9	
30-Aug	14.2	50.4	79.4	
31-Aug	14.2 to 32.3	47.1	67.2	
	@ 0800 hrs			
1-Sep	32.3	43.9	63.8	
2-Sep	32.3	41.6	59.7	
3-Sep	32.3	40.5	62.6	
4-Sep	32.3	39.2	54.6	
5-Sep	32.3	38.4	68.7	
6-Sep	32.3	37.7	53.3	

# APPENDIX D Recorded and Forecast Meteorological Data

Appendix D   Recorded and Forecast Meteorological Data 2006								
17.40 379.70 0.90 10.20 5.30 93.40 64.70 907.06 15.50 360.00 0.80 9.00 9.00 92.80 65.00 10.07.06 14.50 360.00 0.80 7.50 7.50 92.60 57.00 14.50 360.00 0.80 7.50 7.50 92.60 63.00 14.50 440.00 0.70 6.50 8.00 92.90 59.00 16.00 470.00 0.60 6.00 8.00 92.90 59.00 16.00 470.00 0.60 6.00 8.00 92.90 59.00 16.00 470.00 0.60 6.00 8.00 92.90 79.00 16.00 470.00 0.60 6.00 8.00 92.90 79.00 16.00 470.00 0.60 6.00 8.00 92.90 79.00 16.00 470.00 0.60 6.00 8.00 92.90 79.00 16.00 470.00 10.0			Recorded an			)ata 2006		
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ATEMP(C) RAD(LY) CC(ITHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 11/06  12.70 343.90 0.85 7.30 8.40 92.90 70.90 11 07 06 12.60 265.00 0.90 9.50 9.00 92.70 81.40 12 07 06 12.50 330.00 0.80 8.50 9.50 93.10 76.50 13.50 395.00 0.70 6.50 7.50 93.30 62.60 14.00 490.00 0.50 6.00 7.00 93.70 58.50 14.50 475.00 0.50 5.50 6.00 93.90 54.70 ATEMP(C) RAD(LY) CC(ITHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 12/06  14.30 248.10 0.98 10.00 9.50 92.80 77.30 12 07 06 13.00 330.00 0.80 9.00 9.00 93.00 76.00 13 07 06 13.50 390.00 0.70 8.00 8.00 93.30 69.00 13.70 440.00 0.60 6.50 7.50 93.60 62.00 13.80 530.00 0.40 6.00 7.00 94.00 59.00 13.70 440.00 0.60 6.50 7.50 93.60 62.00 ATEMP(C) RAD(LY) CC(ITHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  14.20 570.00 0.30 7.00 4.00 93.70 62.00 ATEMP(C) RAD(LY) CC(ITHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06								
WORLD WEATHERWATCH FORECAST ISSUED JUL 11/06  12.70								
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12.60 265.00 0.90 9.50 9.00 92.70 81.40 12 07 06 12.50 330.00 0.80 8.50 9.50 93.10 76.50 13.50 395.00 0.70 6.50 7.50 93.30 62.60 14.00 490.00 0.50 6.00 7.00 93.70 58.50 14.50 475.00 0.50 5.50 6.00 93.90 54.70 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 12/06  14.30 248.10 0.98 10.00 9.50 92.80 77.30 12 07 06 13.50 390.00 0.70 8.00 8.00 93.30 69.00 13.70 440.00 0.60 6.50 7.50 93.60 62.00 14.20 570.00 0.30 7.00 4.00 93.70 62.00 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06	12.70	343.90	0.85	7.30	8.40	92.90	70.90	11 07 06
12.50 330.00 0.80 8.50 9.50 93.10 76.50 13.50 395.00 0.70 6.50 7.50 93.30 62.60 14.00 490.00 0.50 6.00 7.00 93.70 58.50 14.50 475.00 0.50 5.50 6.00 93.90 54.70 ATEMP(C) RAD(LY) CC(ITHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 12/06  14.30 248.10 0.98 10.00 9.50 92.80 77.30 12.07.06 13.00 330.00 0.80 9.00 9.00 93.00 76.00 13.07.06 13.50 390.00 0.70 8.00 8.00 93.30 69.00 13.70 440.00 0.60 6.50 7.50 93.60 62.00 13.80 530.00 0.40 6.00 7.00 94.00 59.00 14.20 570.00 0.30 7.00 4.00 93.70 62.00 ATEMP(C) RAD(LY) CC(ITHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13.07.06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14.07.06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80								
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14.00 490.00 0.50 6.00 7.00 93.70 58.50 14.50 475.00 0.50 5.50 6.00 93.90 54.70 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 12/06  14.30 248.10 0.98 10.00 9.50 92.80 77.30 12.07.06 13.00 330.00 0.80 9.00 9.00 93.00 76.00 13.07.06 13.50 390.00 0.70 8.00 8.00 93.30 69.00 13.70 440.00 0.60 6.50 7.50 93.60 62.00 13.80 530.00 0.40 6.00 7.00 94.00 59.00 14.20 570.00 0.30 7.00 4.00 93.70 62.00 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13.07.06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14.07.06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80								
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ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 12/06  14.30								
WORLD WEATHERWATCH FORECAST ISSUED JUL 12/06  14.30								DD MM YY
13.00 330.00 0.80 9.00 9.00 93.00 76.00 13 07 06 13.50 390.00 0.70 8.00 8.00 93.30 69.00 13.70 440.00 0.60 6.50 7.50 93.60 62.00 13.80 530.00 0.40 6.00 7.00 94.00 59.00 14.20 570.00 0.30 7.00 4.00 93.70 62.00  ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13 07 06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14 07 06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80						- ( )	( )	
13.00 330.00 0.80 9.00 9.00 93.00 76.00 13 07 06 13.50 390.00 0.70 8.00 8.00 93.30 69.00 13.70 440.00 0.60 6.50 7.50 93.60 62.00 13.80 530.00 0.40 6.00 7.00 94.00 59.00 14.20 570.00 0.30 7.00 4.00 93.70 62.00  ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13 07 06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14 07 06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80								
13.50 390.00 0.70 8.00 8.00 93.30 69.00 13.70 440.00 0.60 6.50 7.50 93.60 62.00 13.80 530.00 0.40 6.00 7.00 94.00 59.00 14.20 570.00 0.30 7.00 4.00 93.70 62.00 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13 07 06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14 07 06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80								
13.70 440.00 0.60 6.50 7.50 93.60 62.00 13.80 530.00 0.40 6.00 7.00 94.00 59.00 14.20 570.00 0.30 7.00 4.00 93.70 62.00 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13 07 06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14 07 06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80	13.00	330.00	0.80	9.00	9.00	93.00	76.00	13 07 06
13.80 530.00 0.40 6.00 7.00 94.00 59.00 14.20 570.00 0.30 7.00 4.00 93.70 62.00  ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY  WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13 07 06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14 07 06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80	13.50	390.00	0.70	8.00	8.00	93.30		
14.20 570.00 0.30 7.00 4.00 93.70 62.00 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13 07 06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14 07 06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80								
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20 385.20 0.90 9.40 9.60 93.10 84.20 13 07 06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14 07 06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80								
WORLD WEATHERWATCH FORECAST ISSUED JUL 13/06  12.20	14.20	570.00	0.30	7.00	4.00	93.70	62.00	
12.20 385.20 0.90 9.40 9.60 93.10 84.20 13 07 06 13.20 420.00 0.60 8.00 10.00 93.20 70.70 14 07 06 14.00 430.00 0.60 6.50 10.50 93.60 60.60 14.20 510.00 0.40 6.50 7.00 93.90 59.80	ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
13.20     420.00     0.60     8.00     10.00     93.20     70.70     14 07 06       14.00     430.00     0.60     6.50     10.50     93.60     60.60       14.20     510.00     0.40     6.50     7.00     93.90     59.80	WORLD WEATH	HERWATCH	FORECAST ISSU	UED JUL 13/0	6			
13.20     420.00     0.60     8.00     10.00     93.20     70.70     14 07 06       14.00     430.00     0.60     6.50     10.50     93.60     60.60       14.20     510.00     0.40     6.50     7.00     93.90     59.80			0		د			
14.00     430.00     0.60     6.50     10.50     93.60     60.60       14.20     510.00     0.40     6.50     7.00     93.90     59.80								
14.20 510.00 0.40 6.50 7.00 93.90 59.80								14 07 06
14 50 480 00 0 50 7 50 6 50 93 90 62 80								
	14.50	480.00	0.50	7.50	6.50	93.90	62.80	
15.30 460.00 0.50 8.50 5.00 93.80 63.90								
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY						SPR(KPA)	RH(%)	DD MM YY
WORLD WEATHERWATCH FORECAST ISSUED JUL 14/06	WORLD WEATI	HERWATCH	FORECAST ISSU	UED JUL 14/0	6			

			Appendix D (0	,			
		Recorded an	d Forecast Me	teorological D	ata 2006		
11.40	435.00	0.71	8.40	5.50	93.30	84.20	14 07 06
13.00	430.00	0.70	7.00	10.50	93.50	64.00	15 07 06
14.50	500.00	0.50	8.00	7.50	93.50	65.00	
14.20	510.00	0.50	8.00	6.50	93.90	66.00	
15.50	480.00	0.50	9.00	6.00	93.80	66.00	
15.50	570.00	0.30	10.00	5.50	93.70	68.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWATCH	FORECAST ISSU	JED JUL 15/0	16			
13.30	562.00	0.55	6.30	11.60	93.80	67.20	15 07 06
14.30	620.00	0.20	9.20	12.50	93.80	71.00	16 07 06
15.50	520.00	0.40	10.00	10.00	93.30	70.00	
14.00	480.00	0.50	10.00	8.00	93.40	77.00	
15.00	550.00	0.20	11.00	9.00	93.60	77.00	
15.50	560.00	0.20	11.00	9.00	93.70	75.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWATCH	FORECAST ISSU	JED JUL 16/0	16			
14.70	674.90	0.24	5.90	10.40	94.20	59.60	16 07 06
14.10	420.00	0.70	8.00	8.50	93.50	67.00	17 07 06
14.50	480.00	0.70	9.50	9.00	93.50	72.00	1, 0, 00
16.00	520.00	0.30	10.50	8.50	93.30	66.00	
16.00	520.00	0.30	11.00	8.00	93.50	70.00	
17.00	540.00	0.20	11.00	9.00	93.60	66.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	, ,	` ,	` '	` '	51 K(Ki 71)	KII(70)	DD IVIIVI II
12.80	382.00	0.67	7.70	7.40	93.80	72.20	17 07 06
14.50	540.00	0.40	8.00	10.00	93.60	73.00	18 07 06
17.00	550.00	0.40	10.50	8.00	93.80	67.00	10 07 00
	560.00	0.30	11.00	7.00	93.80		
17.50						66.00	
18.00	570.00	0.30	11.00	7.00	94.10	64.00	
18.00	620.00	0.20	10.00	8.00	93.80	60.00	
ATEMP(C) WORLD WEAT	RAD(LY) HERWATCH	CC(TTHS) FORECAST ISSI	DPT(C) JED JUL 18/0	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
			, , -				
16.10	594.00	0.42	5.90	7.80	93.90	52.50	18 07 06
15.20	630.00	0.35	7.00	4.00	93.70	58.00	19 07 06
17.00	550.00	0.50	8.00	6.00	93.90	57.00	
18.50	650.00	0.30	9.00	6.00	94.10	55.00	
19.00	650.00	0.30	9.50	8.00	93.90	55.00	
19.00	600.00	0.50	9.80	9.00	93.70	57.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
		FORECAST ISSU			` '	` /	

			Appendix D (0				
		Recorded an	id Forecast M€	teorological D	ata 2006		
15.00	431.00	0.42	7.00	6.20	93.70	60.00	19 07 06
17.20	550.00	0.39	8.00	5.00	94.10	55.00	20 07 06
18.00	650.00	0.20	7.50	6.00	94.20	51.00	
19.00	600.00	0.30	8.50	8.00	93.90	52.00	
20.00	700.00	0.15	8.80	9.00	93.70	48.00	
20.50	650.00	0.23	9.00	10.00	93.40	48.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	, ,	, ,	, ,	, ,	, ,	, ,	
19.20	538.30	0.35	9.30	5.70	94.10	57.00	20 07 06
21.80	600.00	0.25	12.00	3.00	94.20	55.00	21 07 06
22.00	650.00	0.25	11.50	6.00	93.90	52.00	
21.50	600.00	0.30	11.00	6.00	93.80	52.00	
21.00	550.00	0.35	11.00	8.00	93.60	54.00	
20.50	520.00	0.40	11.00	10.00	93.40	55.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	` ,	,		` '	0111(1411)	1111(///	
22.90	650.00	0.15	12.10	3.00	94.30	55.40	21 07 06
25.00	700.00	0.13	13.30	6.00	94.00	55.00	22 07 06
				7.00			22 07 00
23.50	600.00	0.35	12.50		93.60	55.00	
21.00	550.00	0.40	11.50	8.00	93.20	57.00	
19.00	450.00	0.50	10.00	10.00	93.00	54.00	
17.00	400.00	0.60	8.50	12.00	92.80	52.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWAICH	FURECASI 1550	UED JUL 22/C	16			
24.80	673.40	0.29	12.50	5.90	93.80	51.20	22 07 06
23.50	660.00	0.25	12.00	7.50	93.60	52.00	23 07 06
21.60	600.00	0.35	11.00	8.00	93.20	54.00	
19.00	420.00	0.60	10.00	9.00	92.80	55.00	
17.00	400.00	0.70	8.50	9.00	92.70	55.00	
17.40	500.00	0.55	8.30	11.00	92.90	55.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWATCH	FORECAST ISS	UED JUL 23/0	16			
24.10	667.80	0.25	11.30	9.90	93.60	48.30	23 07 06
21.60	600.00	0.35	11.50	8.50	93.30	53.00	24 07 06
19.00	420.00	0.65	10.50	8.50	92.90	56.00	5. 30
18.00	390.00	0.75	9.00	9.00	92.80	56.00	
17.70	470.00	0.60	8.60	10.00	93.00	55.00	
17.50	390.00	0.70	7.50	10.00	92.60	52.00	
17.50							
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY

			Appendix D (0 d Forecast Me	teorological D	ata 2006		
22.00	((2.70	0.24	0.20	0.70	02.40	47.00	24.07.07
22.00	663.70	0.24	9.30	8.60	93.40	47.00 57.00	24 07 06 25 07 06
18.80	420.00	0.68	10.00	7.50	93.00	57.00	25 07 06
18.20	390.00	0.75	9.50	8.50	92.90	57.00	
17.70	440.00	0.65	8.50	9.00	93.00	55.00	
17.50	420.00	0.70	7.50	9.00	92.60	52.00	
17.00	440.00	0.65	8.00	7.00	92.40	55.00	
ATEMP(C) WORLD WEAT	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWAICH	FORECASI 155	UED JUL 25/C	0			
19.00	440.00	0.50	10.00	6.00	93.20	57.50	25 07 06
18.20	380.00	0.80	10.50	8.50	93.10	59.00	26 07 06
17.40	450.00	0.60	9.00	8.00	93.10	56.00	
17.00	390.00	0.75	8.20	8.00	92.70	54.00	
17.00	420.00	0.70	8.50	7.00	92.40	56.00	
16.00	340.00	0.85	9.50	10.00	92.30	65.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWATCH	FORECAST ISS	UED JUL 26/0	16			
18.40	299.80	0.51	10.70	8.30	93.30	63.30	26 07 06
17.20	480.00	0.55	8.80	8.50	93.20	58.00	27 07 06
16.80	420.00	0.70	8.50	8.00	92.90	56.00	
17.00	390.00	0.75	9.00	8.00	92.50	57.00	
15.50	340.00	0.85	9.50	9.00	92.30	66.00	
15.00	370.00	0.80	7.50	12.00	92.70	60.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWATCH	FORECAST ISS	UED JUL 27/0	16			
17.70	477.70	0.30	6.50	9.10	93.40	49.80	27 07 06
15.50	410.00	0.60	6.00	7.00	93.10	53.10	28 07 06
14.50	240.00	0.90	10.00	9.00	92.70	74.30	_0 0, 00
14.50	325.00	0.75	8.50	8.00	92.80	67.20	
14.00	350.00	0.70	7.50	8.50	93.30	64.90	
13.50	375.00	0.65	6.00	6.00	93.50	60.50	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	` '	, ,	, ,	` '	311(1411)	111(/0)	
16.50	609.80	0.44	5.60	10.10	93.20	52.20	28 07 06
15.00	240.00	0.90	12.00	13.00	92.80	82.20	29 07 06
15.00	250.00	0.90	9.00	7.00	92.80	74.20	
13.50	350.00	0.70	6.50	8.00	93.10	64.60	
13.50 13.00			5.00	6.00	93.40	57.50	
13.50 13.00 13.20	360.00	0.70					
13.50 13.00		0.70 0.40 CC(TTHS)	4.50 DPT(C)	8.00 SPD(KH)	93.80 SPR(KPA)	58.10 RH(%)	DD MM YY

		ata 2006	teorological D	d Forecast Me	Recorded an		
29 07 0	85.50	92.90	10.80	11.70	0.97	111.60	14.30
30 07 0	71.50	92.90	10.00	7.50	0.75	325.00	12.50
	64.80	93.10	12.00	7.00	0.90	250.00	13.50
	62.60	93.30	8.00	6.50	0.75	310.00	13.50
	58.10	93.80	8.00	4.50	0.60	420.00	12.50
	62.20	93.70	6.00	5.00	0.60	390.00	12.00
DD MM Y	RH(%)	SPR(KPA)	SPD(KH)	DPT(C)	CC(TTHS)	RAD(LY)	ATEMP(C)
			6	JED JUL 30/0	FORECAST ISSU	HERWATCH	WORLD WEAT
30 07 0	78.10	93.00	9.20	7.90	0.79	205.80	11.90
31 07 0	60.70	93.20	12.50	7.00	0.80	300.00	14.50
	59.70	93.30	10.00	6.00	0.75	330.00	13.70
	59.40	93.80	9.00	5.00	0.40	480.00	12.70
	65.40	93.90	5.00	6.00	0.50	430.00	12.30
	62.40	93.60	5.00	6.00	0.30	520.00	13.00
DD MM Y	RH(%)	SPR(KPA)	SPD(KH)	DPT(C)	CC(TTHS)	RAD(LY)	ATEMP(C)
	` ,	,	` ,	, ,	, ,	, ,	WORLD WEAT
31 07 0	69.90	93.20	13.90	8.80	0.71	510.90	14.70
01 08 0	66.10	93.30	10.50	7.50	0.70	350.00	13.70
01 00 0	61.00	93.80	10.00	5.00	0.60	400.00	12.30
	64.00	93.90	7.00	5.50	0.40	480.00	12.10
	63.30	93.70	4.00	6.00	0.20	550.00	12.80
	56.80	93.10	6.00	6.50	0.40	470.00	15.00
DD MM Y	RH(%)	SPR(KPA)	SPD(KH)	DPT(C)	CC(TTHS)	RAD(LY)	ATEMP(C)
DD 1/11/1 1	1111(70)		, ,	, ,	, ,	, ,	WORLD WEAT
01 08 0	73.20	93.40	11 70	8.00	0.63	406 90	12 90
01 08 0 02 08 0	73.20 57.90	93.40 93.80	11.70 11.00	8.00 5.00	0.63 0.45	406.90 450.00	12.90 13.10
01 08 0 02 08 0	57.90	93.80	11.00	5.00	0.45	450.00	13.10
	57.90 58.20	93.80 93.70	11.00 9.00	5.00 4.50	0.45 0.40	450.00 480.00	13.10 12.50
	57.90 58.20 66.90	93.80 93.70 93.60	11.00 9.00 4.00	5.00 4.50 7.00	0.45 0.40 0.20	450.00 480.00 550.00	13.10 12.50 13.00
	57.90 58.20 66.90 60.70	93.80 93.70 93.60 93.40	11.00 9.00 4.00 5.00	5.00 4.50 7.00 7.00	0.45 0.40 0.20 0.55	450.00 480.00 550.00 410.00	13.10 12.50 13.00 14.50
02 08 0	57.90 58.20 66.90 60.70 65.20	93.80 93.70 93.60 93.40 93.50	11.00 9.00 4.00 5.00 4.00	5.00 4.50 7.00 7.00 9.00	0.45 0.40 0.20 0.55 0.40	450.00 480.00 550.00 410.00 460.00	13.10 12.50 13.00 14.50 15.50
	57.90 58.20 66.90 60.70	93.80 93.70 93.60 93.40	11.00 9.00 4.00 5.00 4.00 SPD(KH)	5.00 4.50 7.00 7.00 9.00 DPT(C)	0.45 0.40 0.20 0.55 0.40 CC(TTHS)	450.00 480.00 550.00 410.00 460.00 RAD(LY)	13.10 12.50 13.00 14.50
02 08 0 DD MM Y	57.90 58.20 66.90 60.70 65.20 RH(%)	93.80 93.70 93.60 93.40 93.50 SPR(KPA)	11.00 9.00 4.00 5.00 4.00 SPD(KH)	5.00 4.50 7.00 7.00 9.00 DPT(C) JED AUG 02/	0.45 0.40 0.20 0.55 0.40 CC(TTHS) FORECAST ISSU	450.00 480.00 550.00 410.00 460.00 RAD(LY) HERWATCH	13.10 12.50 13.00 14.50 15.50 ATEMP(C) WORLD WEAT
02 08 0 DD MM Y	57.90 58.20 66.90 60.70 65.20 RH(%)	93.80 93.70 93.60 93.40 93.50 SPR(KPA)	11.00 9.00 4.00 5.00 4.00 SPD(KH) 06	5.00 4.50 7.00 7.00 9.00 DPT(C) JED AUG 02/ 5.50	0.45 0.40 0.20 0.55 0.40 CC(TTHS) FORECAST ISSU	450.00 480.00 550.00 410.00 460.00 RAD(LY) HERWATCH 1	13.10 12.50 13.00 14.50 15.50 ATEMP(C) WORLD WEAT
02 08 0 DD MM Y	57.90 58.20 66.90 60.70 65.20 RH(%)	93.80 93.70 93.60 93.40 93.50 SPR(KPA)	11.00 9.00 4.00 5.00 4.00 SPD(KH) 06	5.00 4.50 7.00 7.00 9.00 DPT(C) JED AUG 02/ 5.50 5.80	0.45 0.40 0.20 0.55 0.40 CC(TTHS) FORECAST ISSU 0.58 0.50	450.00 480.00 550.00 410.00 460.00 RAD(LY) HERWATCH 1 485.90 530.00	13.10 12.50 13.00 14.50 15.50 ATEMP(C) WORLD WEAT: 12.40 11.70
02 08 0 DD MM Y	57.90 58.20 66.90 60.70 65.20 RH(%)	93.80 93.70 93.60 93.40 93.50 SPR(KPA) 93.90 93.80 93.60	11.00 9.00 4.00 5.00 4.00 SPD(KH) 06 10.00 5.00 5.00	5.00 4.50 7.00 7.00 9.00 DPT(C) JED AUG 02/ 5.50 5.80 6.50	0.45 0.40 0.20 0.55 0.40 CC(TTHS) FORECAST ISSU 0.58 0.50 0.60	450.00 480.00 550.00 410.00 460.00 RAD(LY) HERWATCH 1 485.90 530.00 450.00	13.10 12.50 13.00 14.50 15.50 ATEMP(C) WORLD WEAT 12.40 11.70 13.00
02 08 0 DD MM Y	57.90 58.20 66.90 60.70 65.20 RH(%) 65.60 67.00 65.00 67.00	93.80 93.70 93.60 93.40 93.50 SPR(KPA) 93.90 93.80 93.60 93.50	11.00 9.00 4.00 5.00 4.00 SPD(KH) 06 10.00 5.00 5.00 6.00	5.00 4.50 7.00 7.00 9.00 DPT(C) JED AUG 02/ 5.50 5.80 6.50 7.50	0.45 0.40 0.20 0.55 0.40 CC(TTHS) FORECAST ISSU 0.58 0.50 0.60 0.70	450.00 480.00 550.00 410.00 460.00 RAD(LY) HERWATCH : 485.90 530.00 450.00 380.00	13.10 12.50 13.00 14.50 15.50 ATEMP(C) WORLD WEAT: 12.40 11.70 13.00 13.50
02 08 0 DD MM Y	57.90 58.20 66.90 60.70 65.20 RH(%) 65.60 67.00 65.00 65.00	93.80 93.70 93.60 93.40 93.50 SPR(KPA) 93.90 93.80 93.60 93.50 93.40	11.00 9.00 4.00 5.00 4.00 SPD(KH) 06 10.00 5.00 5.00 6.00 3.00	5.00 4.50 7.00 7.00 9.00 DPT(C) JED AUG 02/ 5.50 5.80 6.50 7.50 8.00	0.45 0.40 0.20 0.55 0.40 CC(TTHS) FORECAST ISSU 0.58 0.50 0.60 0.70 0.50	450.00 480.00 550.00 410.00 460.00 RAD(LY) HERWATCH 3 485.90 530.00 450.00 380.00 500.00	13.10 12.50 13.00 14.50 15.50 ATEMP(C) WORLD WEAT: 12.40 11.70 13.00 13.50 14.50
02 08 0 DD MM Y	57.90 58.20 66.90 60.70 65.20 RH(%) 65.60 67.00 65.00 67.00	93.80 93.70 93.60 93.40 93.50 SPR(KPA) 93.90 93.80 93.60 93.50	11.00 9.00 4.00 5.00 4.00 SPD(KH) 06 10.00 5.00 5.00 6.00	5.00 4.50 7.00 7.00 9.00 DPT(C) JED AUG 02/ 5.50 5.80 6.50 7.50	0.45 0.40 0.20 0.55 0.40 CC(TTHS) FORECAST ISSU 0.58 0.50 0.60 0.70	450.00 480.00 550.00 410.00 460.00 RAD(LY) HERWATCH : 485.90 530.00 450.00 380.00	13.10 12.50 13.00 14.50 15.50 ATEMP(C) WORLD WEAT: 12.40 11.70 13.00 13.50

		ata 2006	teorological D	d Forecast Me	Recorded an		
03 08 06	65.80	93.80	5.20	5.10	0.55	403.00	12.00
04 08 06	67.00	93.60	8.80	7.40	0.69	380.00	13.30
	68.00	93.50	6.00	7.80	0.63	420.00	13.50
	62.00	93.30	3.00	7.80	0.45	550.00	15.00
	59.00	93.10	3.00	8.00	0.55	500.00	16.00
	61.00	92.90	4.00	8.50	0.60	450.00	16.00
DD MM YY	RH(%)	SPR(KPA)	SPD(KH)	DPT(C)	CC(TTHS)	RAD(LY)	ATEMP(C)
	` ,	, ,	, ,	, ,	, ,	, ,	WORLD WEAT
04 08 06	68.30	93.70	7.70	7.10	0.60	600.00	13.50
05 08 06	70.00	93.50	5.50	7.00	0.58	400.00	12.50
	64.00	93.40	3.00	7.40	0.50	550.00	14.00
	62.00	93.10	3.00	7.80	0.55	500.00	15.00
	62.00	93.00	4.00	8.20	0.65	400.00	15.50
	65.00	93.10	8.00	8.50	0.70	350.00	15.00
DD MM YY	RH(%)	SPR(KPA)	SPD(KH)	DPT(C)	CC(TTHS)	RAD(LY)	ATEMP(C)
			06	JED AUG 05/	FORECAST ISS	HERWATCH	WORLD WEAT
05 08 06	67.70	93.60	7.40	7.40	0.51	527.10	13.80
06 08 06	56.00	93.40	3.00	6.70	0.17	650.00	15.50
	58.00	93.20	5.00	7.50	0.40	550.00	16.00
	62.00	93.10	6.00	8.20	0.65	400.00	15.50
	62.00	93.40	8.00	8.00	0.55	500.00	15.30
	61.00	93.30	10.00	7.80	0.60	480.00	15.00
							ATEMP(C)
DD MM YY		SPR(KPA)	SPD(KH)	DPT(C)	CC(11HS)	KAD(LY)	111LIVII (C)
DD MM YY	RH(%)	SPR(KPA)	SPD(KH) 06	DPT(C) JED AUG 06/	CC(TTHS) FORECAST ISS	RAD(LY) HERWATCH	WORLD WEAT
	RH(%)	SPR(KPA) 93.50	, ,	JED AUG 06/	FORECAST ISS	, ,	WORLD WEAT
DD MM YY  06 08 06  07 08 06		, ,	06	, ,	, ,	HERWATCH :	, ,
06 08 06	RH(%) 61.80 63.00	93.50 93.10	4.30 9.80	JED AUG 06/ 6.40 8.00	0.26 0.70	469.70 400.00	WORLD WEAT
06 08 06	RH(%) 61.80 63.00 74.00	93.50 93.10 93.20	4.30 9.80 6.00	JED AUG 06/ 6.40 8.00 9.50	0.26 0.70 0.85	469.70 400.00 280.00	14.80 15.50 14.50
06 08 06	RH(%) 61.80 63.00 74.00 68.00	93.50 93.10 93.20 93.50	4.30 9.80 6.00 8.00	6.40 8.00 9.50 8.50	0.26 0.70 0.85 0.65	469.70 400.00 280.00 450.00	14.80 15.50 14.50 14.50
06 08 06	RH(%) 61.80 63.00 74.00 68.00 63.00	93.50 93.10 93.20 93.50 93.60	4.30 9.80 6.00 8.00 10.00	6.40 8.00 9.50 8.50 7.00	0.26 0.70 0.85 0.65 0.40	469.70 400.00 280.00	14.80 15.50 14.50 14.50 14.00
06 08 06 07 08 06	RH(%) 61.80 63.00 74.00 68.00 63.00 59.00	93.50 93.10 93.20 93.50 93.60 93.40	4.30 9.80 6.00 8.00 10.00 6.00	9.50 8.00 9.50 8.50 7.00 6.00	0.26 0.70 0.85 0.65 0.40 0.45	469.70 400.00 280.00 450.00 450.00	14.80 15.50 14.50 14.50 14.00 14.20
06 08 06	RH(%) 61.80 63.00 74.00 68.00 63.00	93.50 93.10 93.20 93.50 93.60	4.30 9.80 6.00 8.00 10.00 6.00 SPD(KH)	6.40 8.00 9.50 8.50 7.00 6.00 DPT(C)	0.26 0.70 0.85 0.65 0.40 0.45 CC(TTHS)	469.70 400.00 280.00 450.00 450.00 450.00 RAD(LY)	14.80 15.50 14.50 14.50 14.00
06 08 06 07 08 06	RH(%) 61.80 63.00 74.00 68.00 63.00 59.00	93.50 93.10 93.20 93.50 93.60 93.40	4.30 9.80 6.00 8.00 10.00 6.00 SPD(KH)	6.40 8.00 9.50 8.50 7.00 6.00 DPT(C)	0.26 0.70 0.85 0.65 0.40 0.45 CC(TTHS)	469.70 400.00 280.00 450.00 450.00 450.00 RAD(LY)	14.80 15.50 14.50 14.00 14.20 ATEMP(C)
06 08 06 07 08 06 DD MM YY	RH(%) 61.80 63.00 74.00 68.00 63.00 59.00 RH(%)	93.50 93.10 93.20 93.50 93.60 93.40 SPR(KPA)	4.30 9.80 6.00 8.00 10.00 6.00 SPD(KH)	6.40 8.00 9.50 8.50 7.00 6.00 DPT(C) JED AUG 07/	0.26 0.70 0.85 0.65 0.40 0.45 CC(TTHS) FORECAST ISSI	469.70 400.00 280.00 450.00 480.00 450.00 RAD(LY)	14.80 15.50 14.50 14.50 14.00 14.20 ATEMP(C) WORLD WEAT
06 08 06 07 08 06 DD MM YY	RH(%) 61.80 63.00 74.00 68.00 63.00 59.00 RH(%)	93.50 93.10 93.20 93.50 93.60 93.40 SPR(KPA)	4.30 9.80 6.00 8.00 10.00 6.00 SPD(KH) 06	9.50 8.50 7.00 6.00 DPT(C) JED AUG 07/	0.26 0.70 0.85 0.65 0.40 0.45 CC(TTHS) FORECAST ISSI	469.70 400.00 280.00 450.00 480.00 450.00 RAD(LY) HERWATCH 2	14.80 15.50 14.50 14.50 14.00 14.20 ATEMP(C) WORLD WEAT
06 08 06 07 08 06 DD MM YY	RH(%) 61.80 63.00 74.00 68.00 63.00 59.00 RH(%)	93.50 93.10 93.20 93.50 93.60 93.40 SPR(KPA)	4.30 9.80 6.00 8.00 10.00 6.00 SPD(KH) 06	9.50 8.50 7.00 6.00 DPT(C) JED AUG 07/ 8.90 10.00	0.26 0.70 0.85 0.65 0.40 0.45 CC(TTHS) FORECAST ISSI 0.84 0.80	469.70 400.00 280.00 450.00 450.00 RAD(LY) HERWATCH 2	14.80 15.50 14.50 14.50 14.00 14.20 ATEMP(C) WORLD WEAT:
06 08 06 07 08 06 DD MM YY	61.80 63.00 74.00 68.00 63.00 59.00 RH(%)	93.50 93.10 93.20 93.50 93.60 93.40 SPR(KPA) 93.20 93.20 93.50	4.30 9.80 6.00 8.00 10.00 6.00 SPD(KH) 06 12.20 6.50 7.00	9.50 8.50 7.00 6.00 DPT(C) JED AUG 07/ 8.90 10.00 8.00	0.26 0.70 0.85 0.65 0.40 0.45 CC(TTHS) FORECAST ISSI 0.84 0.80 0.65	469.70 400.00 280.00 450.00 450.00 450.00 RAD(LY) HERWATCH 206.50 240.00 390.00	14.80 15.50 14.50 14.50 14.00 14.20 ATEMP(C) WORLD WEAT: 15.70 14.70 14.00
06 08 06 07 08 06 DD MM YY	RH(%) 61.80 63.00 74.00 68.00 63.00 59.00 RH(%) 65.50 73.00 67.00 66.00	93.50 93.10 93.20 93.50 93.60 93.40 SPR(KPA) 93.20 93.20 93.50 93.50	4.30 9.80 6.00 8.00 10.00 6.00 SPD(KH) 06 12.20 6.50 7.00 10.00	9.50 8.50 7.00 6.00 DPT(C) JED AUG 07/ 8.90 10.00 8.00 6.70	0.26 0.70 0.85 0.65 0.40 0.45 CC(TTHS) FORECAST ISSI 0.84 0.80 0.65 0.50	469.70 400.00 280.00 450.00 450.00 A50.00 RAD(LY) HERWATCH 206.50 240.00 390.00 440.00	14.80 15.50 14.50 14.50 14.00 14.20 ATEMP(C) WORLD WEAT: 15.70 14.70 14.00 13.00

RLD WEATHERWATCH FORECAST ISSUED AUG 09/06  14.20			ata 2006	teorological D	d Forecast Me	Recorded an		
14.00	08 08 0	80.60	93.40	9.90	11.50	0.94	441.30	15.10
14.50	09 08 (	64.00	93.50	9.00	7.20	0.40	540.00	14.00
13.50 600.00 0.30 6.00 8.00 93.70 60.00 114.00 550.00 0.40 6.00 8.00 93.60 59.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 09/06  14.20 540.80 0.30 6.20 7.70 93.90 60.90 090.00 13.50 540.00 0.30 8.00 9.00 93.50 69.00 10.08 06 14.50 520.00 0.40 10.00 9.00 93.50 69.00 10.08 06 14.50 600.00 0.30 7.00 8.00 93.60 74.00 14.10 400.00 0.60 7.00 10.00 93.50 63.00 14.00 400.00 0.60 7.00 10.00 93.50 63.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 10/06  12.40 628.00 0.26 5.20 4.30 93.80 63.00 11.08 06 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 06 14.00 600.00 0.30 6.00 8.00 93.60 63.00 14.00 600.00 0.30 6.00 8.00 93.80 63.00 11.08 06 15.00 620.00 0.30 7.50 7.00 93.80 63.00 14.00 600.00 0.30 6.00 8.00 93.60 59.00 13.50 400.00 0.50 6.00 10.00 93.50 63.00 14.00 560.00 0.50 6.00 10.00 93.50 63.00 13.50 400.00 0.70 7.00 12.00 93.40 65.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 65.00 15.70 FEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 11/06		63.00	93.50	10.00	7.00	0.50	450.00	14.00
14.00 550.00 0.40 6.00 8.00 93.60 59.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 09/06  14.20 540.80 0.30 6.20 7.70 93.90 60.90 90.80 13.50 540.00 0.30 8.00 9.00 93.50 69.00 10.08 06 14.50 520.00 0.40 10.00 9.00 93.60 74.00 14.40 550.00 0.40 10.00 9.00 93.60 63.00 14.40 15.00 0.60 7.00 10.00 93.50 63.00 14.40 550.00 0.40 7.00 8.00 93.50 63.00 14.40 550.00 0.40 7.00 10.00 93.50 63.00 10.00 93.60 74.00 14.00 550.00 0.40 7.00 10.00 93.50 63.00 10.00 93.60 74.00 14.00 400.00 0.60 7.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 93.50 63.00 10.00 10.00 93.50 63.00 10.00 10.00 93.50 63.00 11.00 93.50 63.00 93.00		53.00	93.60	9.00	5.00	0.40	560.00	14.50
14.00 550.00 0.40 6.00 8.00 93.60 59.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 09/06  14.20 540.80 0.30 6.20 7.70 93.90 60.90 09.80 13.50 540.00 0.30 8.00 9.00 93.50 69.00 10.08 06 14.50 520.00 0.40 10.00 9.00 93.60 74.00 14.50 600.00 0.30 7.00 8.00 93.70 61.00 14.00 550.00 0.40 10.00 9.00 93.60 74.00 14.00 550.00 0.40 7.00 10.00 93.60 74.00 14.00 550.00 0.40 7.00 10.00 93.60 74.00 14.00 550.00 0.40 7.00 10.00 93.60 74.00 14.00 FREWATTERWATCH FORECAST ISSUED AUG 10/06  12.40 628.00 0.26 5.20 4.30 93.80 63.00 11.08 06 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 06 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 06 14.00 600.00 0.30 6.00 8.00 93.60 59.00 14.00 600.00 0.30 6.00 8.00 93.80 65.20 10.08 06 15.00 620.00 0.30 6.00 8.00 93.80 65.00 11.08 06 14.00 600.00 0.30 6.00 8.00 93.80 65.00 11.08 06 13.50 400.00 0.70 7.00 12.00 93.80 65.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 11/06  12.40 628.00 0.26 5.20 4.30 93.80 65.00 11.08 06 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.50 6.00 10.00 93.50 59.00 13.50 59.00 13.50 400.00 0.70 7.00 12.00 93.40 65.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 11/06  13.60 600.70 0.25 4.70 7.40 93.50 59.70 11.08 06 15.70 460.00 0.50 6.20 7.00 93.70 54.00 12.08 06 15.50 550.00 0.35 6.80 8.00 93.50 57.00 14.50 400.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 65.00 13.50 65.00 0.66 6.20 9.00 93.50 65.00 13.00 65.00 65.00 65.00 65.00 65.00 65.00 6		60.00	93.70	8.00	6.00	0.30	600.00	13.50
RLD WEATHERWATCH FORECAST ISSUED AUG 09/06  14.20		59.00	93.60		6.00	0.40	550.00	14.00
RLD WEATHERWATCH FORECAST ISSUED AUG 09/06  14.20	DD MM Y	RH(%)	SPR(KPA)	SPD(KH)	DPT(C)	CC(TTHS)	RAD(LY)	ATEMP(C)
13.50 540.00 0.30 8.00 9.00 93.50 69.00 10.80 0 14.50 520.00 0.40 10.00 9.00 93.60 74.00 14.50 600.00 0.30 7.00 8.00 93.70 61.00 14.00 400.00 0.60 7.00 10.00 93.50 63.00 14.00 400.00 0.60 7.00 10.00 93.50 63.00  TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YX RLD WEATHERWATCH FORECAST ISSUED AUG 10/06  12.40 628.00 0.26 5.20 4.30 93.80 65.20 10.88 06 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 06 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 06 14.00 600.00 0.30 6.00 8.00 93.60 59.00 14.00 660.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.70 7.00 12.00 93.40 65.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YX RLD WEATHERWATCH FORECAST ISSUED AUG 11/06  13.60 600.70 0.25 4.70 7.40 93.50 59.00 15.70 460.00 0.50 6.00 11.00 93.50 59.00 15.70 460.00 0.50 6.00 11.00 93.50 59.00 15.50 550.00 0.35 6.80 8.00 93.70 54.00 12.08 06 15.50 550.00 0.35 6.80 8.00 93.50 59.00 13.50 400.00 0.50 6.20 7.00 93.70 54.00 12.08 06 15.50 550.00 0.35 6.80 8.00 93.50 59.00 13.50 400.00 0.65 7.50 10.00 93.30 66.00 13.50 420.00 0.66 6.80 7.00 93.70 54.00 12.08 06 15.50 550.00 0.35 6.80 8.00 93.50 65.00 13.50 420.00 0.63 6.80 7.00 93.50 65.00 13.50 420.00 0.66 6.80 7.00 93.50 65.00 13.50 420.00 0.66 6.80 7.00 93.50 65.00 13.50 420.00 0.66 6.80 7.00 93.50 65.00 13.50 420.00 0.66 6.80 7.00 93.50 65.00 14.40 560.00 0.43 7.60 7.50 93.60 57.00 13.08 06 14.70 417.00 0.65 6.80 9.80 93.60 61.50 T2.08 06 14.70 417.00 0.65 6.80 9.80 93.60 61.50 T2.08 06 14.70 417.00 0.65 6.80 9.80 93.60 61.50 T2.08 06 14.70 417.00 0.66 6.80 7.50 93.60 57.00 13.00 13.80 480.00 0.55 62.0 8.00 93.60 61.00		` ,	, ,	06	, ,	, ,	, ,	, ,
14.50 520.00 0.40 10.00 9.00 93.60 74.00 14.50 600.00 0.30 7.00 8.00 93.70 61.00 14.00 550.00 0.40 7.00 8.00 93.70 63.00 14.00 400.00 0.60 7.00 10.00 93.50 63.00  IEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 10/06  12.40 628.00 0.26 5.20 4.30 93.80 65.20 10.08 0 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 0 15.00 620.00 0.30 7.50 7.00 93.80 61.00 14.00 660.00 0.30 6.00 8.00 93.60 59.00 14.00 560.00 0.50 6.00 10.00 93.50 59.00 14.00 560.00 0.70 7.00 12.00 93.40 65.00 13.50 400.00 0.70 7.00 12.00 93.40 RH(%) DD MM YX RLD WEATHERWATCH FORECAST ISSUED AUG 11/06  13.60 600.70 0.25 4.70 7.40 93.50 F9.70 11.08 0 15.70 460.00 0.50 6.20 7.00 93.70 54.00 12.08 0 15.50 550.00 0.35 6.80 8.00 93.50 59.70 14.50 460.00 0.50 6.20 7.00 93.70 54.00 12.08 0 15.50 550.00 0.35 6.80 8.00 93.50 57.00 14.50 400.00 0.65 7.50 10.00 93.30 65.00 14.50 400.00 0.65 7.50 10.00 93.30 65.00 15.50 550.00 0.35 6.80 8.00 93.50 57.00 14.50 400.00 0.65 7.50 10.00 93.30 65.00 13.50 420.00 0.63 6.80 7.00 93.40 66.00 13.00 450.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.63 6.80 7.00 93.40 66.00 13.00 450.00 0.66 6.20 9.00 93.50 65.00 1TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YX RLD WEATHERWATCH FORECAST ISSUED AUG 12/06	09 08 (	60.90	93.90	7.70	6.20	0.30	540.80	14.20
14.50 600.00 0.30 7.00 8.00 93.70 61.00 14.00 400.00 0.40 7.00 8.00 93.60 63.00 14.00 400.00 0.60 7.00 10.00 93.50 63.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 10/06  12.40 628.00 0.26 5.20 4.30 93.80 65.20 10.08 06 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 06 15.00 620.00 0.30 7.50 7.00 93.80 61.00 14.00 660.00 0.30 6.00 8.00 93.60 59.00 14.00 560.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.70 7.00 12.00 93.40 65.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 11/06  13.60 600.70 0.25 4.70 7.40 93.50 59.70 11.08 06 15.70 460.00 0.50 6.20 7.00 93.70 54.00 12.08 06 15.70 460.00 0.55 6.80 8.00 93.50 59.70 14.50 400.00 0.66 7.50 10.00 93.70 54.00 12.08 06 15.70 460.00 0.50 6.20 7.00 93.70 54.00 12.08 06 15.70 460.00 0.66 6.20 9.00 93.50 57.00 14.50 400.00 0.66 7.50 10.00 93.30 65.00 13.50 420.00 0.63 6.80 7.00 93.40 66.00 13.50 420.00 0.66 6.80 7.00 93.40 66.00 13.00 450.00 0.60 6.20 9.00 93.50 65.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 12/06  14.70 417.00 0.65 6.80 9.80 93.60 61.50 RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 12/06	10 08 0	69.00	93.50	9.00	8.00	0.30	540.00	13.50
14.50 600.00 0.30 7.00 8.00 93.70 61.00 14.00 400.00 0.40 7.00 8.00 93.60 63.00 14.00 400.00 0.60 7.00 10.00 93.50 63.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YN RLD WEATHERWATCH FORECAST ISSUED AUG 10/06  12.40 628.00 0.26 5.20 4.30 93.80 65.20 10.08 06 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 06 15.00 620.00 0.30 7.50 7.00 93.80 61.00 14.00 660.00 0.30 6.00 8.00 93.60 59.00 14.00 560.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.70 7.00 12.00 93.40 65.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YN RLD WEATHERWATCH FORECAST ISSUED AUG 11/06  13.60 600.70 0.25 4.70 7.40 93.50 59.70 11.08 06 15.70 460.00 0.50 6.20 7.00 93.70 54.00 12.08 06 15.70 460.00 0.55 6.80 8.00 93.50 59.70 14.50 400.00 0.66 7.50 10.00 93.30 65.00 13.50 420.00 0.63 6.80 7.00 93.70 54.00 12.08 06 15.50 550.00 0.35 6.80 8.00 93.50 57.00 14.50 400.00 0.66 7.50 10.00 93.30 65.00 13.50 420.00 0.66 6.80 7.00 93.70 65.00 13.50 420.00 0.63 6.80 7.00 93.70 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.66 6.80 7.00 93.40 66.00 13.00 450.00 0.66 6.80 7.00 93.40 66.00 13.00 450.00 0.66 6.80 7.00 93.40 66.00 14.70 417.00 0.65 6.80 9.80 93.60 61.50 12.08 06 16.40 560.00 0.43 7.60 7.50 93.60 61.50 12.08 06 16.40 560.00 0.43 7.60 7.50 93.60 65.00 15.50 380.00 0.68 8.00 6.00 93.40 65.00 15.50 380.00 0.68 8.00 6.00 93.40 65.00 14.00 450.00 0.66 6.80 7.00 93.50 63.00 13.80 480.00 0.55 6.20 8.00 93.60 61.00								
14.00 550.00 0.40 7.00 8.00 93.60 63.00 14.00 400.00 0.60 7.00 10.00 93.50 63.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 10/06  12.40 628.00 0.26 5.20 4.30 93.80 65.20 10.08 0 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 0 14.00 630.00 0.25 7.00 10.00 93.80 63.00 11.08 0 14.00 600.00 0.30 7.50 7.00 93.80 61.00 14.00 650.00 0.50 6.00 8.00 93.60 59.00 14.00 560.00 0.50 6.00 10.00 93.50 59.00 13.50 400.00 0.70 7.00 12.00 93.40 65.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RLD WEATHERWATCH FORECAST ISSUED AUG 11/06  13.60 600.70 0.25 4.70 7.40 93.50 59.70 11.08 0 15.50 400.00 0.50 6.20 7.00 93.70 54.00 12.08 0 15.50 550.00 0.35 6.80 8.00 93.50 57.00 14.50 400.00 0.65 7.50 10.00 93.30 65.00 13.50 420.00 0.65 7.50 10.00 93.30 65.00 13.50 420.00 0.65 7.50 10.00 93.30 65.00 13.50 420.00 0.65 7.50 10.00 93.40 66.00 13.50 420.00 0.65 7.50 10.00 93.50 57.00 14.50 440.00 0.65 7.50 10.00 93.50 65.00 13.50 420.00 0.63 6.80 7.00 93.40 66.00 13.00 450.00 0.60 6.20 9.00 93.50 65.00 13.50 420.00 0.63 6.80 7.00 93.40 66.00 13.00 450.00 0.66 6.20 9.00 93.50 65.00 13.50 420.00 0.63 6.80 7.00 93.50 65.00 13.50 420.00 0.66 6.20 9.00 93.50 65.00 14.00 450.00 0.66 6.20 9.00 93.50 65.00 14.00 450.00 0.68 8.00 6.00 93.40 66.00 57.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 15.50 380.00 0.68 8.00 6.00 93.40 65.00 15.50 380.00 0.68 8.00 6.00 93.40 65.00 15.50 380.00 0.68 8.00 6.00 93.40 65.00 15.50 380.00 0.68 8.00 6.00 93.40 65.00 15.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 15.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 15.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 15.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 15.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 15.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 13.00 450.00 0.68 8.00 6.00 93.40 65.00 13.00 450.00 0.55 6.20 8.00 93.60 61.00 93.50 63.00 13.80 480.00 0.55 6.20 8.00 93.60 61.00 93.60 61.00								
14.00								
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RLD WEATHERWATCH FORECAST ISSUED AUG 12/06  14.70		66.00	93.40	7.00				
16.40     560.00     0.43     7.60     7.50     93.60     57.00     13 08 06       15.50     380.00     0.68     8.00     6.00     93.40     65.00       14.00     450.00     0.60     6.80     7.00     93.50     63.00       13.80     480.00     0.55     6.20     8.00     93.60     61.00	12 08 (	66.00 65.00	93.40 93.50	7.00 9.00	6.20	0.60	450.00	13.00
16.40     560.00     0.43     7.60     7.50     93.60     57.00     13 08 00       15.50     380.00     0.68     8.00     6.00     93.40     65.00       14.00     450.00     0.60     6.80     7.00     93.50     63.00       13.80     480.00     0.55     6.20     8.00     93.60     61.00	12 08 (	66.00 65.00	93.40 93.50	7.00 9.00 SPD(KH)	6.20 DPT(C)	0.60 CC(TTHS)	450.00 RAD(LY)	13.00 ATEMP(C)
15.50     380.00     0.68     8.00     6.00     93.40     65.00       14.00     450.00     0.60     6.80     7.00     93.50     63.00       13.80     480.00     0.55     6.20     8.00     93.60     61.00	12 08 0 DD MM Y	66.00 65.00 RH(%)	93.40 93.50 SPR(KPA)	7.00 9.00 SPD(KH) 06	6.20 DPT(C) JED AUG 12/	0.60 CC(TTHS) FORECAST ISSI	450.00 RAD(LY) HERWATCH	13.00 ATEMP(C) WORLD WEAT
14.00     450.00     0.60     6.80     7.00     93.50     63.00       13.80     480.00     0.55     6.20     8.00     93.60     61.00	12 08 0 DD MM Y	66.00 65.00 RH(%)	93.40 93.50 SPR(KPA)	7.00 9.00 SPD(KH) 06	6.20 DPT(C) JED AUG 12/ 6.80	0.60 CC(TTHS) FORECAST ISSI 0.65	450.00 RAD(LY) HERWATCH : 417.00	13.00 ATEMP(C) WORLD WEAT: 14.70
13.80 480.00 0.55 6.20 8.00 93.60 61.00	12 08 0 DD MM Y	66.00 65.00 RH(%) 61.50 57.00	93.40 93.50 SPR(KPA) 93.60 93.60	7.00 9.00 SPD(KH) 06 9.80 7.50	6.20 DPT(C) JED AUG 12/ 6.80 7.60	0.60 CC(TTHS) FORECAST ISSI 0.65 0.43	450.00 RAD(LY) HERWATCH 3 417.00 560.00	13.00 ATEMP(C) WORLD WEAT: 14.70 16.40
	12 08 0 DD MM Y	66.00 65.00 RH(%) 61.50 57.00 65.00	93.40 93.50 SPR(KPA) 93.60 93.60 93.40	7.00 9.00 SPD(KH) 06 9.80 7.50 6.00	6.20 DPT(C) JED AUG 12/ 6.80 7.60 8.00	0.60 CC(TTHS) FORECAST ISSI 0.65 0.43 0.68	450.00 RAD(LY) HERWATCH : 417.00 560.00 380.00	13.00 ATEMP(C) WORLD WEAT: 14.70 16.40 15.50
14.50	12 08 0 DD MM Y	66.00 65.00 RH(%) 61.50 57.00 65.00 63.00	93.40 93.50 SPR(KPA) 93.60 93.40 93.50	7.00 9.00 SPD(KH) 06 9.80 7.50 6.00 7.00	6.20 DPT(C) JED AUG 12/ 6.80 7.60 8.00 6.80	0.60 CC(TTHS) FORECAST ISSI 0.65 0.43 0.68 0.60	450.00 RAD(LY) HERWATCH 3 417.00 560.00 380.00 450.00	13.00 ATEMP(C) WORLD WEAT: 14.70 16.40 15.50 14.00
14.50 350.00 0.70 6.60 10.00 93.70 60.00 TEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	12 08 0 DD MM Y	66.00 65.00 RH(%) 61.50 57.00 65.00 63.00 61.00	93.40 93.50 SPR(KPA) 93.60 93.40 93.50 93.60	7.00 9.00 SPD(KH) 06 9.80 7.50 6.00 7.00 8.00	6.20 DPT(C) JED AUG 12/ 6.80 7.60 8.00 6.80 6.20	0.60 CC(TTHS) FORECAST ISSI 0.65 0.43 0.68 0.60 0.55	450.00 RAD(LY) HERWATCH 3 417.00 560.00 380.00 450.00 480.00	13.00 ATEMP(C) WORLD WEAT: 14.70 16.40 15.50 14.00 13.80

			Appendix D (0				
		Recorded an	ıd Forecast Me	eteorological D	ata 2006		
16.60	462.80	0.44	8.00	8.60	93.70	60.30	13 08 06
15.90	380.00	0.68	9.40	4.00	93.40	65.00	14 08 06
14.50	450.00	0.55	7.80	6.00	93.50	63.00	
14.00	500.00	0.50	6.80	8.00	93.60	62.00	
14.80	450.00	0.60	7.00	10.00	93.70	60.00	
15.50	500.00	0.50	7.30	6.00	93.50	58.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWATCH	FORECAST ISS	UED AUG 14/	'06			
15.20	493.40	0.65	8.40	8.30	93.40	65.90	14 08 06
13.30	550.00	0.28	6.20	6.00	93.60	62.00	15 08 06
14.00	550.00	0.30	6.40	4.00	93.60	60.00	
15.00	500.00	0.35	7.00	7.00	93.60	59.00	
15.50	450.00	0.50	8.00	10.00	93.70	61.00	
14.50	450.00	0.55	7.50	15.00	93.60	63.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	` '	` ,	, ,		51 K(Ki 71)	K(1(70)	DD WINT II
WORLD WEIT	TILKVVIICIT	TORLETIOT 1000	OLD MOG 15/	00			
13.60	597.60	0.27	5.50	7.30	93.70	61.30	15 08 06
14.00	630.00	0.15	5.70	4.00	93.70	57.00	16 08 06
15.50	580.00	0.30	6.50	7.00	93.60	55.00	
16.00	480.00	0.50	8.00	8.00	93.50	60.00	
15.00	400.00	0.60	8.50	8.00	93.30	65.00	
14.00	450.00	0.50	7.50	6.00	93.50	65.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	, ,	1 /	, ,	, ,	, ,	, ,	
14.60	557.20	0.15	5.10	3.80	93.70	58.30	16 08 06
16.00	540.00	0.13	7.00	8.00	93.60	55.10	17 08 06
					93.80		17 00 00
16.50	460.00	0.30	7.00	9.00		53.40	
14.50	520.00 510.00	0.30 0.10	7.50 8.00	6.00	93.80 93.90	62.80 67.10	
14.00				4.00			
15.00	510.00	0.10	8.00	5.00	93.60	62.90	
ATEMP(C) WORLD WEAT	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWAICH	FURECASI 1550	UED AUG 17/	06			
17.10	531.00	0.17	7.60	6.20	93.80	56.90	17 08 06
16.30	500.00	0.20	7.00	9.00	93.80	54.00	18 08 06
13.80	525.00	0.10	5.00	7.00	93.70	55.00	
14.50	515.00	0.10	7.00	3.00	93.70	60.00	
16.00	505.00	0.10	9.00	4.50	93.50	63.00	
16.00	420.00	0.30	10.00	8.00	93.50	67.00	
	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ATEMP(C)	KAD(LI)	CC(11115)	D11(0)	012 (1111)	0111(1111)	1111(/0)	22 1,11,11

			Annondiy D. (C	Continued)			
			Appendix D (C nd Forecast Me	,	ata 2006		
		Recorded ar	iu roiecast wie	teororogicai D	ata 2006		
18.00	547.40	0.20	6.10	9.50	93.90	48.40	18 08 06
14.30	535.00	0.10	4.00	6.50	93.70	50.00	19 08 06
15.50	515.00	0.10	6.00	4.00	93.50	53.00	
16.70	450.00	0.30	9.00	4.00	93.30	60.00	
16.20	350.00	0.60	9.50	8.00	93.30	64.00	
15.00	300.00	0.70	8.50	8.00	93.70	65.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWATCH :	FORECAST ISS	UED AUG 19/	06			
13.70	566.10	0.07	3.00	5.20	93.80	53.70	19 08 06
14.00	570.00	0.07	3.00	3.00	93.80	47.00	20 08 06
15.00	500.00	0.20	5.50	5.50	93.50	54.00	
14.50	450.00	0.40	7.50	7.50	93.30	63.00	
14.00	300.00	0.70	8.50	8.50	93.50	69.00	
13.50	500.00	0.60	7.80	7.80	93.70	68.00	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
WORLD WEAT	HERWATCH :	FORECAST ISS	UED AUG 20/	06			

# **APPENDIX E Summer Water Temperature and Flow Management Project Reservoir Release** Volume Calculations for July 10 to August 20, 2006

## Appendix E

## Summer Water Temperature and Flow Management Project Reservoir Release Volume Calculations for July 10 to August 20, 2006

Skins Lake Spillway base release for the period July 10 (190) to August 20 (231) =  $50.3 \text{ m}^3/\text{s}$  (1,730 cfs) Summer Water Temperature and Flow Management Project Base Release Volume = (JD 231 - JD 190) \* 50.3 + (JD 231 - JD 229) \* 14.16 =  $2,090.62 \text{ m}^3/\text{s}^*\text{days}$ 

Time period (Julian Day)		Time (hrs)	Flow Rate (m <sup>3</sup> /s)	Volume (m³/s*hrs)
July 10 (190) @ 2400 hrs to July 11 (191) @ 1100 hrs		35.0	49.0	1,715
July 11 (191) @ 1100 hrs to July 18 (198) @ 1600 hrs		173.0	226.5	39,184
July 18 (198) @ 1600 hrs to July 21 (201) @ 1100 hrs		67.0	453.0	30,351
July 21 (201) @ 1100 hrs to July 24 (204) @ 1600 hrs		77.0	283.0	21,791
July 24 (204) @ 1600 hrs to July 27 (207) @ 1300 hrs		69.0	14.2	980
July 27 (207) @ 1600 hrs to August 18 (229) @ 0800 hrs		523.0	170.0	88,910
August 18 (229) @ 0800 hrs to August 20 (231) @ 2400 hrs		64.0	14.2	906
	Total	1,008 (42.0 days)		183,838
Total Release Volume	= 183,838 m³/s*hrs = 7,659.9 m³/s*days = 270,509 cfs*days			
Volume Released for Cooling Purposes		= Total Volum = 7,659.9 - 2,00 = 5,622.6 m <sup>3</sup> /s = 198,561 cfs*c	s*days	ne
Average Release over Summer Management Period (July 10 to August 20)		= 7,659.9 m <sup>3</sup> /s = 182.4 m <sup>3</sup> /s = 6,440.7 cfs	s*days / 42 day	7S