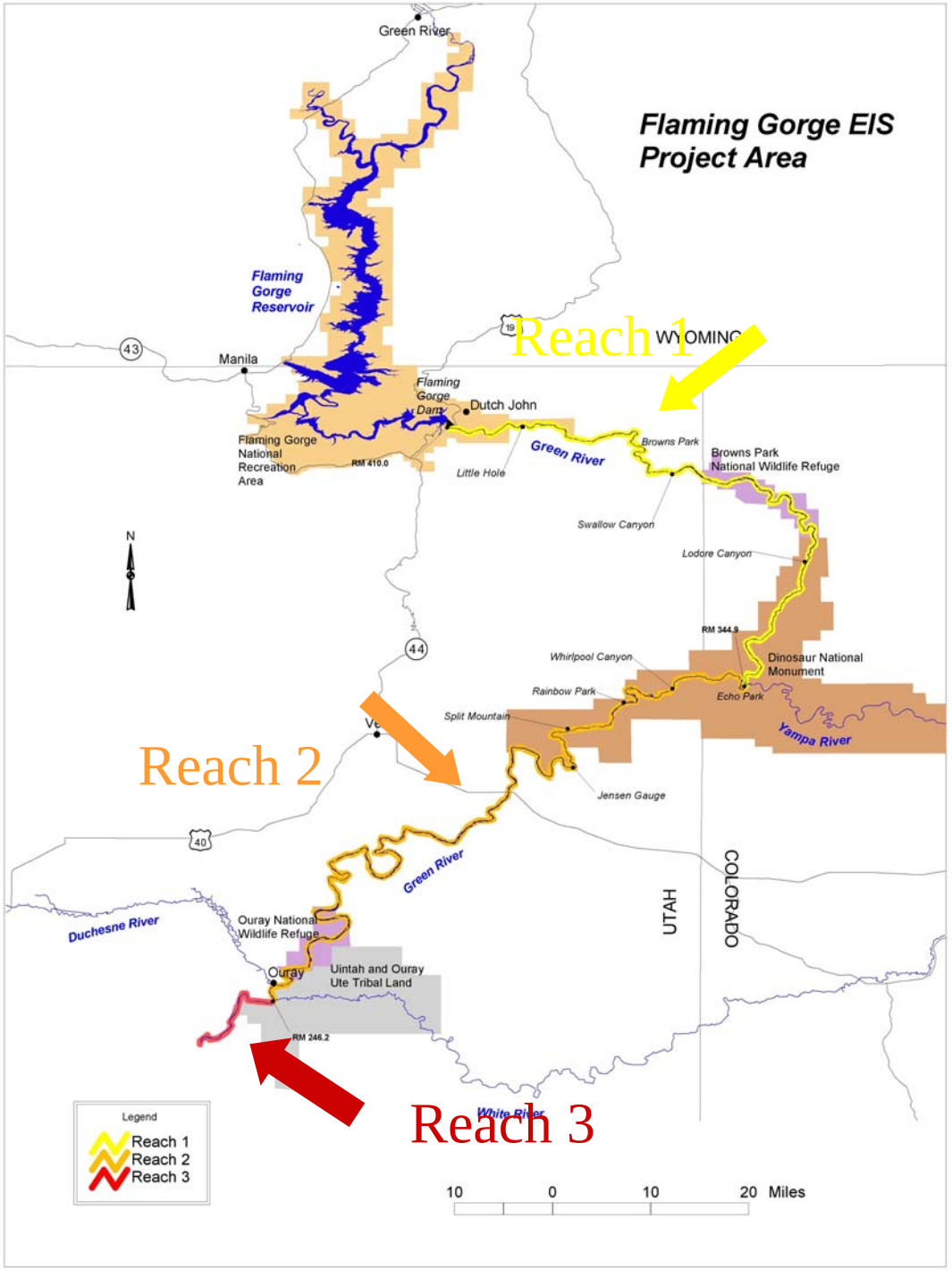
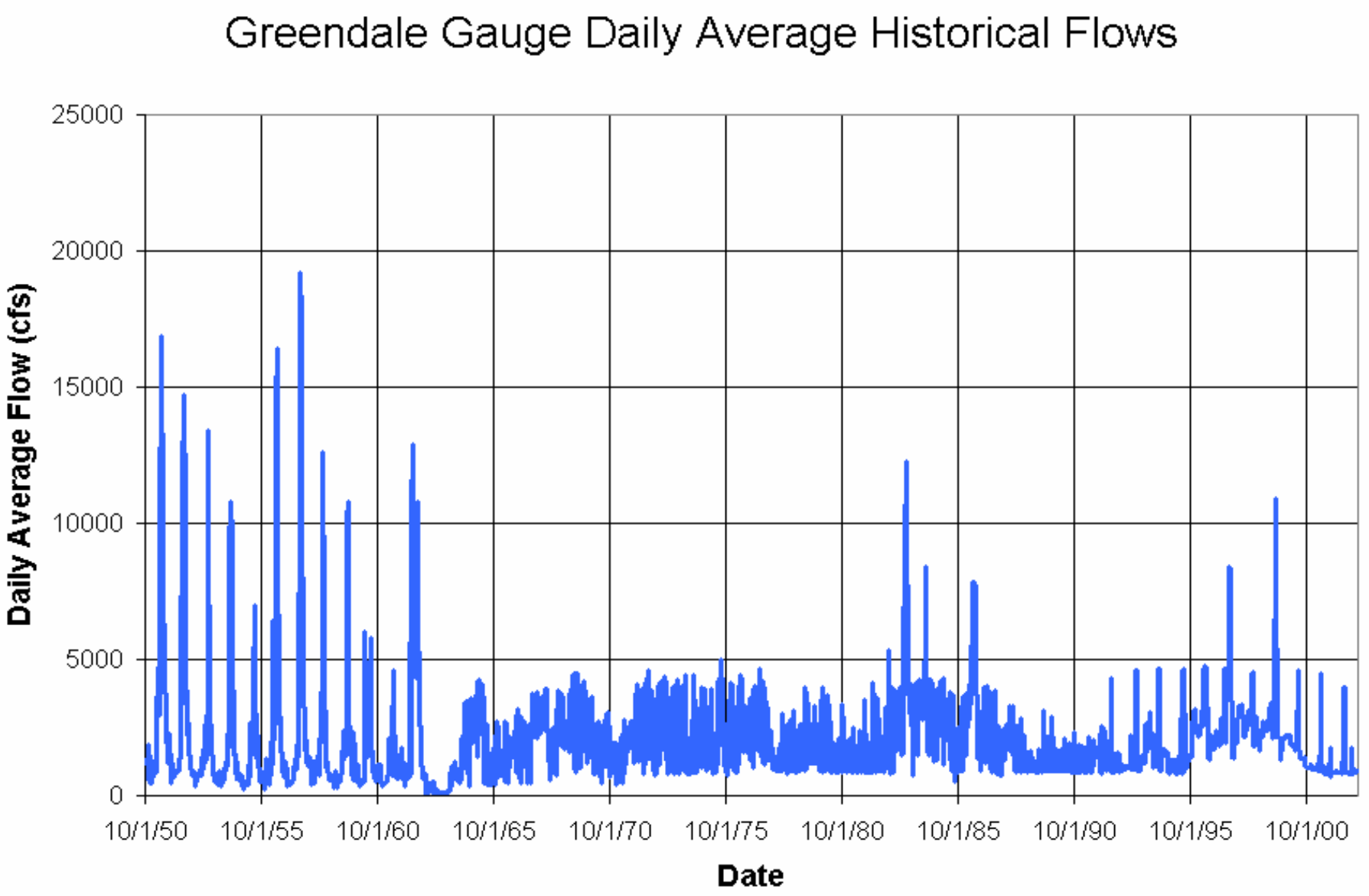
Flaming Gorge TWG Flow and Temperature Recommendations Spring 2007

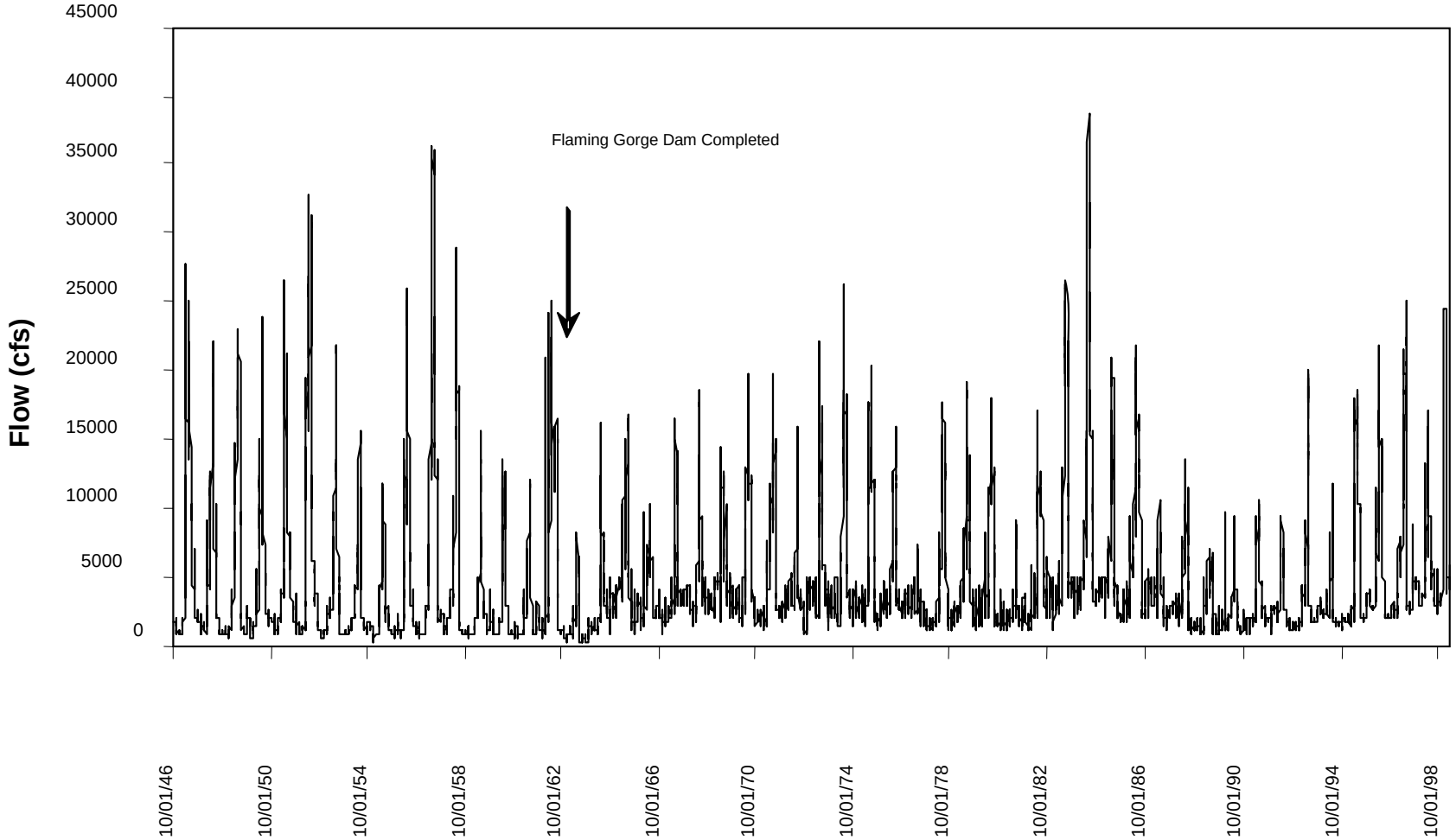
Bureau of Reclamation
Provo Area Office

GEOGRAPHIC SCOPE

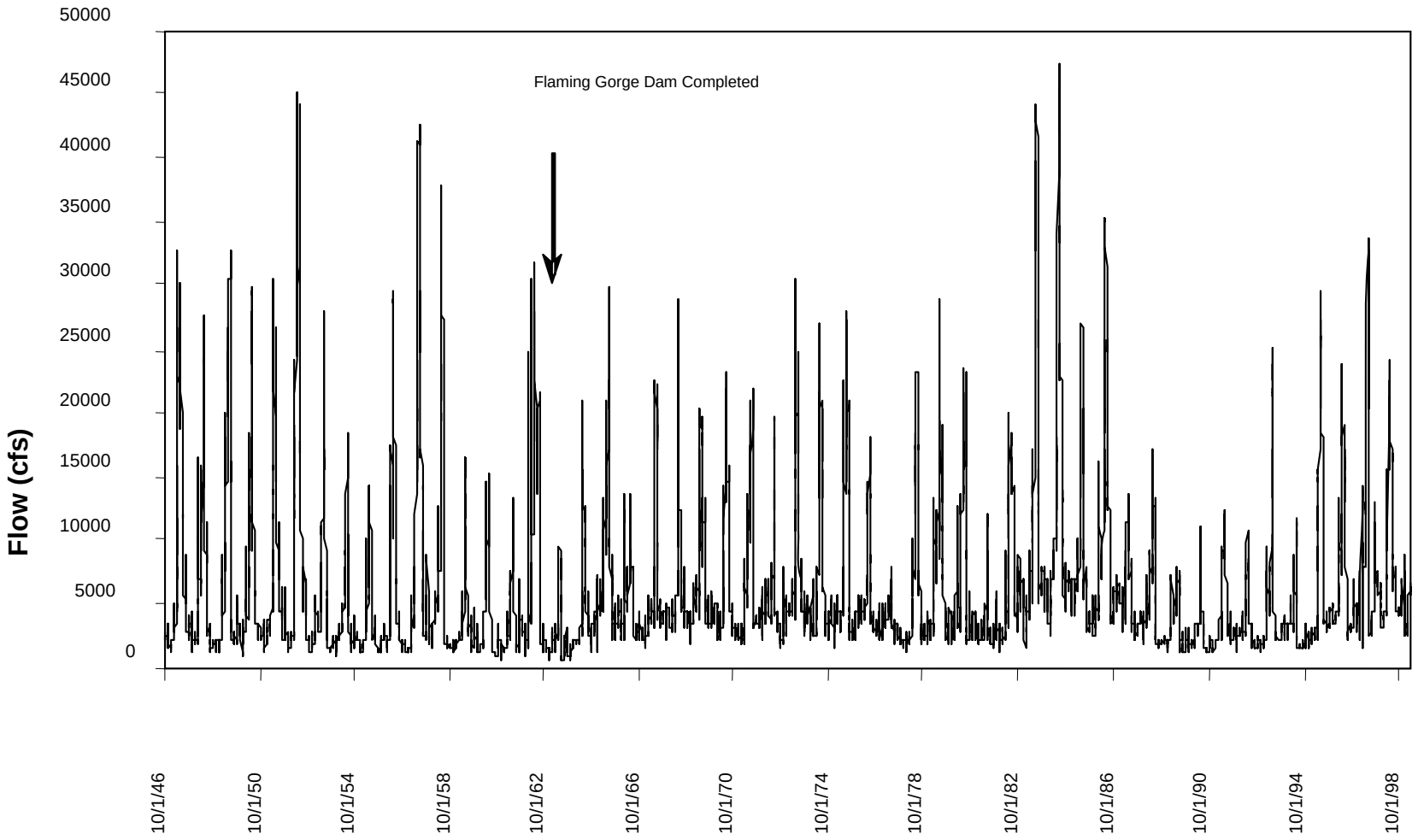



Greendale Gauge Daily Average Historical Flows
Daily Average Flow (cfs)
25000
20000
15000
10000
5000
0
10/1/50
10/1/55
10/1/60
10/1/65
10/1/70
10/1/75
10/1/80
10/1/85
10/1/90
10/1/95
10/1/00
Date

Reach 2: Jensen Gage



Reach 3: Green River Gage



Percentage Exceedances and Hydrologic Classifications

Hydrologic Classification	Percentage Exceedance Range
Wet	<10
Moderately Wet	30 to 10.1
Average	70 to 30.1
Moderately Dry	90 to 70.1
Dry	>90

Proposed Spring Flow Objectives for 2007

If the combined forecast of the Green and Yampa Rivers remains from 445,000 AF to 808,000 AF (**moderately dry**).

- Flows in Reach 1 should be managed in order to achieve at least 4,600 cfs for a spring peak duration necessary to achieve the duration target in Reach 2.

- Flows in Reach 2 should be managed to the extent possible in order to achieve at least 8,300 cfs for at least 7 days. *This flow should be achieved during the peak and post peak flows of the Yampa River.*

- *If 14,000 cfs is achieved at any point during the peak, that flow should be sustained at or above this level for as long as reasonably possible. If flows do not reach 14,000 cfs but do achieve 12,000 cfs at any point during the peak, that flow should be sustained at or above this level for as long as reasonably possible.*

Proposed Spring Flow Objectives for 2007

If the combined forecast of the Green and Yampa Rivers decreases below 445,000 AF prior to or during spring operations (**dry**).

- Flows in Reach 1 should be managed in order to achieve at least 4,600 cfs for a spring peak duration necessary to achieve the duration target in Reach 2.

- Flows in Reach 2 should be managed to the extent possible in order to achieve at least 8,300 cfs for at least 2 days. *This flow should be achieved during the peak and post peak flows of the Yampa River.*

Proposed Spring Flow Objectives for 2007

If the combined forecast of the Green and Yampa Rivers increases above 808,000 AF prior to or during spring operations (**average**).

- Flows in Reach 1 should be managed in order to achieve at least 4,600 cfs for a spring peak duration necessary to achieve the duration target in Reach 2.

- Flows in Reach 2 should be managed to the extent possible in order to achieve at least 18,600 cfs for at least 14 days in 25% of all average years and 1 day in 25% of all average years. *This flow should be achieved during the peak and post peak flows of the Yampa River.*

- Flows in Reach 2 should be managed to the extent possible in order to achieve at least 8,300 cfs for 7 days in 50% of all average years. *This flow should be achieved during the peak and post peak flows of the Yampa River.*

Proposed Spring Flow Objectives for 2007

If the combined forecast of the Green and Yampa Rivers increases above 1,360,000 AF prior to or during spring operations (**moderately wet**).

- Flows in Reach 1 should be managed in order to achieve at least 4,600 cfs for a spring peak duration necessary to achieve the duration target in Reach 2.

- Flows in Reach 2 should be managed to the extent possible in order to achieve at least 20,300 cfs for at least 1 day in 50% of all moderately wet years. *This flow should be achieved during the peak and post peak flows of the Yampa River.*

- Flows in Reach 2 should be managed to the extent possible in order to achieve at least 18,600 cfs for at least 14 days in 50% of all moderately wet years. *This flow should be achieved during the peak and post flows of the Yampa River.*

Proposed Base Flow Targets for 2007

After the spring flow objectives in Reach 1 and Reach 2 have been achieved, flows should be gradually reduced to achieve base flow levels by no later than July 1, 2007.

Base flows in Reaches 1 and 2 should be managed to fall within the prescribed base flow ranges described in the 2000 Flow and Temperature Recommendations depending on the hydrologic designation for 2007.

Proposed Temperature Targets for 2007

Temperature of flows should be managed to be at least 18 degrees Celsius for 2 to 5 weeks in Upper Lodore Canyon during the beginning of the base flow period.

Water temperatures in the Green River should also be managed to be no more than 5 degrees Celsius colder than those of the Yampa River at the confluence of the Green and Yampa rivers for the summer of 2007 (June through August).