Temperature Model Sensitivity Analyses Sets 1 & 2

Appendix A
Set 1 Existing Conditions with Flow Splits
Profiles of Median Mean Daily Temperature Values for Specific Time Periods

SAN JOAQUIN RIVER RESTORATION PROGRAM

February 2008
Figure A-1
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of January
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of February

- Friant Dam
- Gravelly Ford
- Chowchilla Bypass
- Mendota Pool
- Merced River
- Mariposa Bypass
- Sand Slough
- Sack Dam
- Bear Creek
- Salt Slough
- Stevinson Gage
- Bear Creek

Mean Daily Temperature (°F)

Mean Daily Discharge (cfs)

River Station (mi)
Figure A-3
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of March
Figure A-4
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of April 1 Through April 7

Mean Daily Temperature (F)

Mean Daily Discharge (cfs)

River Station (mi)

Merced River
Salt Slough
Stevinson Gage
Bear Creek
Mariposa Bypass
Sand Slough
Sack Dam
Mendota Pool
Chowchilla Bypass
Gravelly Ford
Friant Dam

Target Temperature
Q Split0to4B
Q Split475to4B
Q Split4500to4B
T Split0to4B
T Split475to4B
T Split4500to4B
Figure A-5
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of April 8 Through April 14
Figure A-6
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of April 15 Through April 21

River Station (mi)

Mean Daily Discharge (cfs)

Mean Daily Temperature (F)

Merced River
Salt Slough
Stevinson Gage
Bear Creek
Mariposa Bypass
Sand Slough
Sack Dam
Mendota Pool
Chowchilla Bypass
Gravelly Ford
Friant Dam
Figure A-7
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of April 22 Through April 28

River Station (mi)
Mean Daily Temperature (°F)
Mean Daily Discharge (cfs)

- Friant Dam
- Sack Dam
- Mariposa Bypass
- Sand Slough
- Stevinson Gage
- Bear Creek
- Salt Slough
- Merced River
- Gravelly Ford
- Chowchilla Bypass
- Mendota Pool
- T Split 0 to 4B
- Q Split 0 to 4B
- T Split 4 to 500 to 4B
- Q Split 4 to 500 to 4B
- Target Temperature

Temperature Model Sensitivity Analyses Sets 1 & 2
Preliminary Draft Subject to Revision
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Figure A-8
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of April 29 Through May 5
Figure A-9
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of May 6 Through May 12
Figure A-10
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of May 13 Through May 19
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of May 20 Through May 26

River Station (mi)

Mean Daily Discharge (cfs)

Mean Daily Temperature (F)

T Split0to4B
T Split475to4B
T Split4500to4B
Target T Temperature
Q Split0to4B
Q Split475to4B
Q Split4500to4B

Friant Dam
Gravelly Ford
Chowchilla Bypass
Mendota Pool
Sack Dam
Sand Slough
Mariposa Bypass
Bear Creek
Salt Slough
Stevinson Gage
Merced River
Gravelly Ford
Figure A-12
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of May 27 Through May 31
Figure A-13

Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of June

River Station (mi)

Mean Daily Discharge (cfs)

Mean Daily Temperature (F)

T Split0to4B
T Split475o4B
T Split450to4B
Target Temperature
Q Split0to4B
Q Split475o4B
Q Split450to4B

Merced River
Salt Slough
Stevinson Gage
Bear Creek
Mariposa Bypass
Sand Slough
Sack Dam
Mendota Pool
Chowchilla Bypass
Gravelly Ford
Friant Dam
Figure A-14
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of July

Mean Daily Temperature (°F)

0 100 200 300 400 500 600 700 800 900

Mean Daily Discharge (cfs)

0 200 400 600 800 1000

River Station (mi)

90 85 80 75 70 65 60 55 50 45 40

Set 1 Temperature
Q Split 475 to 4B
Q Split 4500 to 4B
Target Temperature
Q Split 475 to 4B
Q Split 4500 to 4B
T Split 475 to 4B
T Split 4500 to 4B

Friant Dam
Gravelly Ford
Chowchilla Bypass
Mendota Pool
Mariposa Bypass
Sand Slough
Sack Dam
Bear Creek
Stevinson Gage
Salt Slough
Merced River
Figure A

15 Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of August
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of September
Figure A-17
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of October 1 Through October 7

Mean Daily Discharge (cfs)

River Station (mi)

Mean Daily Temperature (F)

- Friant Dam
- Sack Dam
- Merced River
- Mariposa Bypass
- Salt Slough
- Stevinson Gage
- Bear Creek
- Sand Slough
- Mendota Pool
- Chowchilla Bypass
- Gravelly Ford
- Friant Dam

Temperature Model Sensitivity Analyses Sets 1 & 2 Preliminary Draft Subject to Revision
A-17 – February 2008
Figure A-18
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of October 8 Through October 14
Figure A-19

Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of October 15 Through October 21
Figure A-20
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of October 22 Through January 28
Figure A-21
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of October 29 Through November 4

Set 1 Existing Conditions with Flow Splits
Appendix A

Temperature Model Sensitivity Analyses Sets 1 & 2 Preliminary Draft Subject to Revision
A-21 – February 2008
Figure A-22
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of November 5 Through November 11

River Station (mi)
Mean Daily Discharge (cfs)
Mean Daily Temperature (F)
T Split 0 to 4B
T Split 4 to 75 to 4B
T Split 4500 to 4B
Target Temperature
Q Split 0 to 4B
Q Split 4 to 75 to 4B
Q Split 4500 to 4B

Friant Dam
Gravelly Ford
Chowchilla Bypass
Mendota Pool
Mariposa Bypass
Salt Slough
Stevinson Gage
Bear Creek
Sand Slough
Sack Dam
Merced River
Gravelly Ford
Friant Dam
Figure A-23
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of November 12 Through November 18
Figure A-24

Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of November 19 Through November 25

- Friant Dam
- Gravelly Ford
- Chowchilla Bypass
- Mendota Pool
- Sack Dam
- Sand Slough
- Mariposa Bypass
- Bear Creek
- Salt Slough
- Stevinson Gage
- Bear Creek
- Merced River

Mean Daily Temperature (°F)

River Station (mi)

Mean Daily Discharge (cfs)

T Split 0 to 4B
T Split 4 to 750 to 4B
T Split 750 to 4B
Target Temperature
Q Split 0 to 4B
Q Split 4 to 750 to 4B
Q Split 750 to 4B
Figure A-25
Set 1 Profile of Median Daily Temperature Values for the Time Period of November 26 Through November 30
Figure A-26
Set 1 Profile of Median Mean Daily Temperature Values for the Time Period of December