Appendix G: SSTEMP Model Run Inputs and Outputs

Temperature Modeling Input Worksheet (SSTEMP)

Location: _____Polvadera Creek_____
Reviewer and Date: __KDors___7/11/03_____

Is there Thermograph Data for this Reach? Yes
Name of Thermograph Data File___Polvadera.xls_____
Time of year to model for __(mm/dd)__8/16_____

Hydrology Parameter	Units	Description	Value	Notes
Instream Flow	cfs	Mean Flow. See documentation for exceptions. Assumptions are for steady state flow.	1.4	Used SWQB data 7/25/99 and 10/5/99 average.
Inflow Temperature	C and F	Mean daily water temp at inflow	16.4 C 61.52 F	Used SWQB data from thermograph field sheet.
Segment Outflow	cfs	Account for inflow from SMALL tributaries, groundwater, etc. Anything contributing more than 10 percent of the flow should be separated into another segment. Can use 4Q3.	1.4	Used SWQB data 7/25/99 and 10/5/99 average. Did not use the 4Q3 because this reach has springs along it and may actually be slightly gaining.
Accretion Temperature	C and F	Temperature of the lateral inflow, barring tributaries, generally should be the same as groundwater temperature.	10.4 C 50.7 F	Found at www.wrcc.dri.edu (Abiquiu Dam site)

Geometry Parameter	Units	Description	Value	Notes
Latitude	Degrees Minutes	Read off standard topographic map	36 10' 59"	Used SWQB data from thermograph field sheet.
Dam at head of segment?		Check box if yes, do not check box if no	Do not check	

Geometry Parameter	Units	Description	Value	Notes
Segment Length	Miles	Segment length for which you want to predict outflow temperature. Estimated from topographic map, but measured length is preferred.	12.2	Got from CWA Integrated §303(d)/§305(b) list
Upstream Elevation	Feet	Read off standard topographic map	7850	
Downstream Elevation	Feet	Read off standard topographic map **DO NOT ENTER A DOWNSTREAM ELEVATION LARGER THAN AN UPSTREAM ELEVATION**	6619	
Width's A	Seconds /ft^2	May be derived by calculating the wetted width-discharge relationship. Plot three widths on the Y-axis, Plot three discharge's on the X-Axis (log-log). The slope of the line is the "B" term. The "A" term is the Y- intercept when X=1. Better to solve for "A" from: $A=W/Q^B$ (see manual).	8	Used SWQB geomorphic data from 9/29/00. This was calculated using WinxsPro as well with the same results.
Width's B Term	NA	From B above, see manual.	.01	
Manning's n	NA	Empirical measure of the segment's "roughness." Not very sensitive in model environment. Get from geomorphic data or use default value of 0.035.	.032	Used SWQB geomorphic data from 9/29/00.

Meteorology Parameter	Units	Description	Value	Notes
Air Temperature	C and F	Mean daily air temp for period to be modeled.	8.7 C 47.7 F	Use formula in manual to calculate. ***This is the most important variable for this model.***
Maximum Air Temperature	C and F	Is a special case of an override condition.	Do not check, model estimates.	Do not check, model estimates.
Relative Humidity	Percent	Mean daily relative humidity for period to be modeled. Adjust for location using formula in manual.	66	Found at www.wrcc.dri.edu (Abiquiu Dam site. Used the early morning value.)
Wind Speed	mph		8.9	Found at www.wrcc.dri.edu (Abiquiu Dam site)
Ground Temperature	C and F	Use mean annual temperature.	10.4 C 50.7 F	Found at www.wrcc.dri.edu (Abiquiu Dam site)
Thermal Gradient	J/M^2/sec/C	Rate of thermal input (or output) from the streambed to the water.	1.65	Use 1.65 as default.
Possible Sun	Percent	Surrogate for cloud cover.	76	Found at www.wrcc.dri.edu (Abiquiu Dam site)
Dust Coefficient	NA	Amount of Dust in the Air. May be calibrated by using known ground level solar radiation data. See manual for table of representative values.	6.5	Used the average of the 3-10 summer representative values.
Ground Reflectivity	Percent	Measure of the amount of short-wave radiation reflected back from the earth into the atmosphere. See manual for table of representative values.	24	Used average of 15-33 for flat ground grass representative values.
Solar Radiation	J/m^2/sec			Leave blank model calculates.

Shade Parameter	Units	Description	Value	Notes
Total Shade	Percent	Refers to how much of the segment is shaded by vegetation, cliffs, etc. Represents the percent of the incoming solar radiation that does not reach the water. Use field notes, densiometer readings etc.	10	Estimate from field observations, and photos.

Polvadera Input and Output
Calibration Run

```
"SSTEMP (2.0.8)  ","03/11/2004  05:14 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "1.400"
"English",         "Inflow Temperature (°F)",         "61.520"
"English",         "Segment Outflow (cfs)",           "1.400"
"English",         "Accretion Temp. (°F)",            "50.700"
"English",         "Latitude (degrees)",              "36.000"
"English",         "Segment Length (mi)",             "12.200"
"English",         "Upstream Elevation (ft)",         "7850.00"
"English",         "Downstream Elevation (ft)",       "6619.00"
"English",         "Width's A Term (s/ft²)",          "8.000"
"English",         "  B Term where W = A*Q**B",       "0.010"
"English",         "Manning's n",                     "0.032"
"English",         "Air Temperature (°F)",            "44.200"
"English",         "Relative Humidity (%)",           "66.000"
"English",         "Wind Speed (mph)",                "8.900"
"English",         "Ground Temperature (°F)",         "50.700"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "6.500"
"English",         "Ground Reflectivity (%)",         "24.000"
"English",         "Solar Radiation (Langleys/d)",    "433.990"
"English",         "Total Shade (%)",                 "10.000"
"English",         "Segment Azimuth (degrees)",       "-15.011"
"West Side Variables"
"English",         "Topographic Altitude (degrees)",  "24.981"
"English",         "Vegetation Height (ft)",          "25.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "5.000"
"English",         "Vegetation Density (%)",          "50.000"
"East Side Variables"
"English",         "Segment Azimuth (degrees)",       "15.011"
"English",         "Topographic Altitude (degrees)",  "35.000"
"English",         "Vegetation Height (ft)",          "20.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "75.000"
"English",         " Maximum Air Temp (°F)",          "47.891"
"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Disabled"
"Total Shade","Enabled"
"Month/day","10/01"
         "Predicted Mean (°C) = 10.04"
         "Estimated Maximum (°C) = 17.82"
         "Approximate Minimum (°C) = 2.27"
         "Mean Equilibrium (°C) = 10.04"
         "Maximum Equilibrium (°C) = 17.89"
         "Minimum Equilibrium (°C) = 2.20"
```

<u>From thermograph data at Polvadera station</u>
Actual mean Temp (ºC) 10/01/98 = 13.3 Error = ± 24.5%
Actual max Temp (ºC) 10/01/98 = 14.9 Error = ± 19.5%
Actual min Temp (ºC) 10/01/98 = 11.5 Error = ±80.3%

Initial Run for 8/16/98

```
"SSTEMP (2.0.8)  ","08/18/2003  03:09 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "1.400"
"English",         "Inflow Temperature (°F)",         "61.520"
"English",         "Segment Outflow (cfs)",           "1.400"
"English",         "Accretion Temp. (°F)",            "50.700"
"English",         "Latitude (degrees)",              "36.000"
"English",         "Segment Length (mi)",             "12.200"
"English",         "Upstream Elevation (ft)",         "7850.00"
"English",         "Downstream Elevation (ft)",       "6619.00"
"English",         "Width's A Term (s/ft²)",          "8.000"
"English",         "  B Term where W = A*Q**B",       "0.010"
"English",         "Manning's n",                     "0.032"
"English",         "Air Temperature (°F)",            "47.700"
"English",         "Relative Humidity (percent)",           "66.000"
"English",         "Wind Speed (mph)",                "8.900"
"English",         "Ground Temperature (°F)",         "50.700"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (percent)",                "76.000"
"English",         "Dust Coefficient",                "6.500"
"English",         "Ground Reflectivity (percent)",         "24.000"
"English",         "Solar Radiation (Langleys/d)",    "595.200"
"English",         "Total Shade (percent)",                 "10.000"
"English",         "Segment Azimuth (degrees)",       "-15.000"
"West Side Variables"
"English",         "Topographic Altitude (degrees)",  "25.000"
"English",         "Vegetation Height (ft)",          "25.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "5.000"
"English",         "Vegetation Density (percent)",          "50.000"
"East Side Variables"
"English",         "Segment Azimuth (degrees)",       "15.000"
"English",         "Topographic Altitude (degrees)",  "35.000"
"English",         "Vegetation Height (ft)",          "20.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "75.000"
"English",         " Maximum Air Temp (°F)",          "51.329"
"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Disabled"
"Total Shade","Enabled"
"Month/day","08/16"
         "Predicted Mean (°F) = 57.23"
         "Estimated Maximum (°F) = 69.92"
         "Approximate Minimum (°F) = 44.53"
         "Mean Equilibrium (°F) = 57.23"
         "Maximum Equilibrium (°F) = 69.95"
         "Minimum Equilibrium (°F) = 44.50"
```

Final Run for 8/16/98

```
"SSTEMP (2.0.8)  ","03/11/2004  05:09 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "1.400"
"English",         "Inflow Temperature (°F)",         "61.520"
"English",         "Segment Outflow (cfs)",           "1.400"
"English",         "Accretion Temp. (°F)",            "50.700"
"English",         "Latitude (degrees)",              "36.000"
"English",         "Segment Length (mi)",             "12.200"
"English",         "Upstream Elevation (ft)",         "7850.00"
"English",         "Downstream Elevation (ft)",       "6619.00"
"English",         "Width's A Term (s/ft²)",          "6.000"
"English",         "  B Term where W = A*Q**B",       "0.010"
"English",         "Manning's n",                     "0.032"
"English",         "Air Temperature (°F)",            "47.700"
"English",         "Relative Humidity (%)",           "66.000"
"English",         "Wind Speed (mph)",                "8.900"
"English",         "Ground Temperature (°F)",         "50.700"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "6.500"
"English",         "Ground Reflectivity (%)",         "24.000"
"English",         "Solar Radiation (Langleys/d)",    "595.200"
"English",         "Total Shade (%)",                 "19.000"
"English",         "Segment Azimuth (degrees)",       "-15.011"
"West Side Variables"
"English",         "Topographic Altitude (degrees)",  "24.981"
"English",         "Vegetation Height (ft)",          "25.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "5.000"
"English",         "Vegetation Density (%)",          "50.000"
"East Side Variables"
"English",         "Segment Azimuth (degrees)",       "15.011"
"English",         "Topographic Altitude (degrees)",  "35.000"
"English",         "Vegetation Height (ft)",          "20.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "75.000"
"English",         " Maximum Air Temp (°F)",          "51.329"
"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Disabled"
"Total Shade","Enabled"
"Month/day","08/16"
         "Predicted Mean (°C) = 13.34"
         "Estimated Maximum (°C) = 19.94"
         "Approximate Minimum (°C) = 6.74"
         "Mean Equilibrium (°C) = 13.34"
         "Maximum Equilibrium (°C) = 19.99"
         "Minimum Equilibrium (°C) = 6.68"
```

Temperature Modeling Input Worksheet (SSTEMP)

Location: _____Rio Vallecitos_____
Reviewer and Date: __KDors___7/11/03_____

Is there Thermograph Data for this Reach? Yes
Name of Thermograph Data File___Polvadera.xls_____
Time of year to model for __(mm/dd)__8/16_____

Hydrology Parameter	Units	Description	Value	Notes
Instream Flow	cfs	Mean Flow. See documentation for exceptions. Assumptions are for steady state flow.	4.75	Used SWQB data 10/6/99.
Inflow Temperature	C and F	Mean daily water temp at inflow	17.1 C 62.78 F	Used SWQB data from thermograph field sheet.
Segment Outflow	cfs	Account for inflow from SMALL tributaries, groundwater, etc. Anything contributing more than 10 percent of the flow should be separated into another segment. Can use 4Q3.	.002	Calculated the 4Q3 using the USGS method for ungaged watersheds (see Appendix E).
Accretion Temperature	C and F	Temperature of the lateral inflow, barring tributaries, generally should be the same as groundwater temperature.	10.4 C 50.7 F	Found at www.wrcc.dri.edu (Abiquiu Dam site)

Geometry Parameter	Units	Description	Value	Notes
Latitude	Degrees Minutes	Read off standard topographic map	36	
Dam at head of segment?		Check box if yes, do not check box if no	Do not check	
Segment Length	Miles	Segment length for which you want to predict outflow temperature. Estimated from	36.31	Got from CWA Integrated §303(d)/§305(b) list

Geometry Parameter	Units	Description	Value	Notes
		topographic map, but measured length is preferred.		
Upstream Elevation	Feet	Read off standard topographic map	8026	
Downstream Elevation	Feet	Read off standard topographic map **DO NOT ENTER A DOWNSTREAM ELEVATION LARGER THAN AN UPSTREAM ELEVATION**	7500	
Width's A	Seconds /ft^2	May be derived by calculating the wetted width-discharge relationship. Plot three widths on the Y-axis, Plot three discharge's on the X-Axis (log-log). The slope of the line is the "B" term. The "A" term is the Y- intercept when X=1. Better to solve for "A" from: $A=W/Q^B$ (see manual).	7.8	Used SWQB geomorphic data from 7/14/99. This was calculated using WinxsPro as well with the same results.
Width's B Term	NA	From B above, see manual.	.002	
Manning's n	NA	Empirical measure of the segment's "roughness." Not very sensitive in model environment. Get from geomorphic data or use default value of 0.035.	.084	Used SWQB geomorphic data from 7/14/99.

Meteorology Parameter	Units	Description	Value	Notes
Air Temperature	C and F	Mean daily air temp for period to be modeled.	9.9 C 49.8 F	Use formula in manual to calculate. ***This is the most important variable for this model.***
Maximum Air Temperature	C and F	Is a special case of an override condition.	Do not check, model estimates.	Do not check, model estimates.
Relative Humidity	Percent	Mean daily relative humidity for	62	Found at www.wrcc.dri.edu

Meteorology Parameter	Units	Description	Value	Notes
		period to be modeled. Adjust for location using formula in manual.		(Abiquiu Dam site. Used the early morning value.)
Wind Speed	mph		8.9	Found at www.wrcc.dri.edu (Abiquiu Dam site)
Ground Temperature	C and F	Use mean annual temperature.	10.4 C 50.7 F	Found at www.wrcc.dri.edu (Abiquiu Dam site)
Thermal Gradient	J/M^2/sec/C	Rate of thermal input (or output) from the streambed to the water.	1.65	Use 1.65 as default.
Possible Sun	Percent	Surrogate for cloud cover.	76	Found at www.wrcc.dri.edu (Abiquiu Dam site)
Dust Coefficient	NA	Amount of Dust in the Air. May be calibrated by using known ground level solar radiation data. See manual for table of representative values.	6.5	Used the average of the 3-10 summer representative values.
Ground Reflectivity	Percent	Measure of the amount of short-wave radiation reflected back from the earth into the atmosphere. See manual for table of representative values.	24	Used average of vegetation, early and late summer, representative values.
Solar Radiation	J/m^2/sec			Leave blank model calculates.

Shade Parameter	Units	Description	Value	Notes
Total Shade	Percent	Refers to how much of the segment is shaded by vegetation, cliffs, etc. Represents the percent of the incoming solar radiation that does not reach the water. Use field notes, densiometer readings etc.	10	Estimate from field observations, and photos.

Vallecitos Inputs and Outputs

Calibration Run

```
"SSTEMP (2.0.8)  ","03/11/2004  04:46 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "4.750"
"English",         "Inflow Temperature (°F)",         "48.400"
"English",         "Segment Outflow (cfs)",           "1.400"
"English",         "Accretion Temp. (°F)",            "50.700"
"English",         "Latitude (degrees)",              "36.000"
"English",         "Segment Length (mi)",             "36.310"
"English",         "Upstream Elevation (ft)",         "8026.00"
"English",         "Downstream Elevation (ft)",       "7500.00"
"English",         "Width's A Term (s/ft²)",          "7.800"
"English",         "  B Term where W = A*Q**B",       "0.002"
"English",         "Manning's n",                     "0.084"
"English",         "Air Temperature (°F)",            "47.800"
"English",         "Relative Humidity (%)",           "62.000"
"English",         "Wind Speed (mph)",                "8.900"
"English",         "Ground Temperature (°F)",         "50.700"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "6.500"
"English",         "Ground Reflectivity (%)",         "24.000"
"English",         "Solar Radiation (Langleys/d)",    "433.781"
"English",         "Total Shade (%)",                 "10.000"
"English",         "Segment Azimuth (degrees)",       "-15.000"
"West Side Variables"
"English",         "Topographic Altitude (degrees)",  "25.000"
"English",         "Vegetation Height (ft)",          "25.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "5.000"
"English",         "Vegetation Density (%)",          "50.000"
"East Side Variables"
"English",         "Segment Azimuth (degrees)",       "15.000"
"English",         "Topographic Altitude (degrees)",  "35.000"
"English",         "Vegetation Height (ft)",          "20.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "75.000"
"English",         " Maximum Air Temp (°F)",          "51.609"
"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Disabled"
"Total Shade","Enabled"
"Month/day","10/01"
         "Predicted Mean (°F) = 52.06"
         "Estimated Maximum (°F) = 62.71"
         "Approximate Minimum (°F) = 41.40"
         "Mean Equilibrium (°F) = 52.07"
         "Maximum Equilibrium (°F) = 65.82"
         "Minimum Equilibrium (°F) = 38.31"
```

<u>From thermograph data at Lower Vallecitos station</u>

Actual mean Temp (ºF) 10/01/98 = 48.4 Error = ± 7.6%
Actual max Temp (ºF) 10/01/98 = 59.3 Error = ± 5.8%
Actual min Temp (ºF) 10/01/98 = 38.4 Error = ±7.8%

Initial Run for 8/16/98

```
"SSTEMP (2.0.8)  ","08/19/2003  10:49 am"
"NoName"
"English",         "Segment Inflow (cfs)",            "4.750"
"English",         "Inflow Temperature (°F)",         "62.780"
"English",         "Segment Outflow (cfs)",           "0.001"
"English",         "Accretion Temp. (°F)",            "50.700"
"English",         "Latitude (degrees)",              "36.000"
"English",         "Segment Length (mi)",             "36.310"
"English",         "Upstream Elevation (ft)",         "8026.00"
"English",         "Downstream Elevation (ft)",       "7500.00"
"English",         "Width's A Term (s/ft²)",          "7.800"
"English",         "  B Term where W = A*Q**B",       "0.002"
"English",         "Manning's n",                     "0.084"
"English",         "Air Temperature (°F)",            "49.800"
"English",         "Relative Humidity (percent)",           "62.000"
"English",         "Wind Speed (mph)",                "8.900"
"English",         "Ground Temperature (°F)",         "50.700"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (percent)",                "76.000"
"English",         "Dust Coefficient",                "6.500"
"English",         "Ground Reflectivity (percent)",         "24.000"
"English",         "Solar Radiation (Langleys/d)",    "596.071"
"English",         "Total Shade (percent)",                 "10.000"
"English",         "Segment Azimuth (degrees)",       "-15.000"
"West Side Variables"
"English",         "Topographic Altitude (degrees)",  "25.000"
"English",         "Vegetation Height (ft)",          "25.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "5.000"
"English",         "Vegetation Density (percent)",          "50.000"
"East Side Variables"
"English",         "Segment Azimuth (degrees)",       "15.000"
"English",         "Topographic Altitude (degrees)",  "35.000"
"English",         "Vegetation Height (ft)",          "20.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "75.000"
"English",         " Maximum Air Temp (°F)",          "53.547"
"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Disabled"
"Total Shade","Enabled"
"Month/day","08/16"
         "Predicted Mean (°F) = 58.10"
         "Estimated Maximum (°F) = 70.71"
         "Approximate Minimum (°F) = 45.49"
         "Mean Equilibrium (°F) = 58.09"
         "Maximum Equilibrium (°F) = 70.71"
         "Minimum Equilibrium (°F) = 45.47"
```

Final Run for 8/16/98 (change total shade to 22.5 % and Width's A term to 7.0)

```
"SSTEMP (2.0.8)  ","03/11/2004  05:03 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "4.750"
"English",         "Inflow Temperature (°F)",         "62.780"
"English",         "Segment Outflow (cfs)",           "0.001"
"English",         "Accretion Temp. (°F)",            "50.700"
"English",         "Latitude (degrees)",              "36.000"
"English",         "Segment Length (mi)",             "36.310"
"English",         "Upstream Elevation (ft)",         "8026.00"
"English",         "Downstream Elevation (ft)",       "7500.00"
"English",         "Width's A Term (s/ft²)",          "7.000"
"English",         "  B Term where W = A*Q**B",       "0.002"
"English",         "Manning's n",                     "0.084"
"English",         "Air Temperature (°F)",            "49.800"
"English",         "Relative Humidity (%)",           "62.000"
"English",         "Wind Speed (mph)",                "8.900"
"English",         "Ground Temperature (°F)",         "50.700"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "6.500"
"English",         "Ground Reflectivity (%)",         "24.000"
"English",         "Solar Radiation (Langleys/d)",    "596.071"
"English",         "Total Shade (%)",                 "22.500"
"English",         "Segment Azimuth (degrees)",       "-15.011"
"West Side Variables"
"English",         "Topographic Altitude (degrees)",  "24.981"
"English",         "Vegetation Height (ft)",          "25.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "5.000"
"English",         "Vegetation Density (%)",          "50.000"
"East Side Variables"
"English",         "Segment Azimuth (degrees)",       "15.011"
"English",         "Topographic Altitude (degrees)",  "35.000"
"English",         "Vegetation Height (ft)",          "20.000"
"English",         "Vegetation Crown (ft)",           "15.000"
"English",         "Vegetation Offset (ft)",          "75.000"
"English",         " Maximum Air Temp (°F)",          "53.547"
"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Disabled"
"Total Shade","Enabled"
"Month/day","08/16"
         "Predicted Mean (°C) = 13.53"
         "Estimated Maximum (°C) = 19.96"
         "Approximate Minimum (°C) = 7.09"
         "Mean Equilibrium (°C) = 13.52"
         "Maximum Equilibrium (°C) = 19.96"
         "Minimum Equilibrium (°C) = 7.08"
```