APPENDIX F
SSTEMP MODEL RUN OUTPUT

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CALIBRATION RUN

NM-2120.A_827: COMANCHE CREEK (COSTILLA CREEK TO LITTLE COSTILLA)
"SSTEMP (2.0.8) ","02/09/2004 08:37 am"
"NoName"

"English",	"Segment Inflow (cfs)",	"0.019"
"English",	"Inflow Temperature (°F)",	"59.710"
"English",	"Segment Outflow (cfs)",	"1.151"
"English",	"Accretion Temp. (°F)",	"46.683"
"English",	"Latitude (degrees)",	"36.800"
"English",	"Segment Length (mi)",	"10.300"
"English",	"Upstream Elevation (ft)",	"9222.00"
"English",	"Downstream Elevation (ft)",	"8963.00"
"English",	"Width's A Term (s/ft²)",	"6.681"
"English",	" B Term where W = A*Q**B",	"0.157"
"English",	"Manning's n",	"0.031"
"English",	"Air Temperature (°F)",	"60.695"
"English",	"Relative Humidity (%)",	"58.007"
"English",	"Wind Speed (mph)",	"5.226"
"English",	"Ground Temperature (°F)",	"46.683"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"550.090"
"English",	"Total Shade (%)",	"4.500"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","08/04"
"Predicted Mean (°F) = 64.04"
"Estimated Maximum (°F) = 77.47"
"Approximate Minimum (°F) = 50.61"

"Measured Mean (°F) = 64.4" (Error = ± 1%)
"Measured Maximum (°F) = 79.3" (Error = ± 4%)
"Measured Minimum (°F) = 51.8" (Error = ± 6%)

LOAD ALLOCATION: INCREASE SHADE TO 56.8 PERCENT

NM-2120.A_827: COMANCHE CREEK (COSTILLA CREEK TO LITTLE COSTILLA)

```
"SSTEMP (2.0.8)  ","02/09/2004  08:39 am"
"NoName"
"English",          "Segment Inflow (cfs)",            "0.019"
"English",          "Inflow Temperature (°F)",         "59.710"
"English",          "Segment Outflow (cfs)",           "1.151"
"English",          "Accretion Temp. (°F)",            "46.683"
"English",          "Latitude (degrees)",              "36.800"
"English",          "Segment Length (mi)",             "10.300"
"English",          "Upstream Elevation (ft)",         "9222.00"
"English",          "Downstream Elevation (ft)",       "8963.00"
"English",          "Width's A Term (s/ft²)",          "6.681"
"English",          "  B Term where W = A*Q**B",       "0.157"
"English",          "Manning's n",                     "0.031"
"English",          "Air Temperature (°F)",            "60.695"
"English",          "Relative Humidity (%)",           "58.007"
"English",          "Wind Speed (mph)",                "5.226"
"English",          "Ground Temperature (°F)",         "46.683"
"English",          "Thermal gradient (j/m²/s/C)",     "1.650"
"English",          "Possible Sun (%)",                "76.000"
"English",          "Dust Coefficient",                "5.000"
"English",          "Ground Reflectivity (%)",         "25.000"
"English",          "Solar Radiation (Langleys/d)",    "550.090"
"English",          "Total Shade (%)",                 "56.800"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","08/04"
         "Predicted Mean (°F) = 57.29"
         "Estimated Maximum (°F) = 65.14"
         "Approximate Minimum (°F) = 49.45"
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CALIBRATION RUN

NM-2120.A_820: RIO COSTILLA (DIVERSION ABOVE COSTILLA TO COMANCHE CREEK)

```
"SSTEMP (2.0.8)  ","02/02/2004  10:44 am"
"NoName"
"English",         "Segment Inflow (cfs)",            "2.966"
"English",         "Inflow Temperature (°F)",         "61.900"
"English",         "Segment Outflow (cfs)",           "4.064"
"English",         "Accretion Temp. (°F)",            "45.514"
"English",         "Latitude (degrees)",              "36.910"
"English",         "Segment Length (mi)",             "18.000"
"English",         "Upstream Elevation (ft)",         "8963.00"
"English",         "Downstream Elevation (ft)",       "7953.00"
"English",         "Width's A Term (s/ft²)",          "9.474"
"English",         "  B Term where W = A*Q**B",       "0.230"
"English",         "Manning's n",                     "0.037"
"English",         "Air Temperature (°F)",            "65.843"
"English",         "Relative Humidity (%)",           "69.752"
"English",         "Wind Speed (mph)",                "3.508"
"English",         "Ground Temperature (°F)",         "45.514"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "5.000"
"English",         "Ground Reflectivity (%)",         "25.000"
"English",         "Solar Radiation (Langleys/d)",    "540.720"
"English",         "Total Shade (%)",                 "37.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/31"
         "Predicted Mean (°F) = 67.98"
         "Estimated Maximum (°F) = 76.75"
         "Approximate Minimum (°F) = 59.22"

       "Measured Mean (°F) = 63.8"        (Error = ± 13%)
         "Measured Maximum (°F) = 73.2"   (Error = ±  9%)
         "Measured Minimum (°F) = 55.0"   (Error = ± 19%)
```

LOAD ALLOCATION: INCREASE SHADE TO 73 PERCENT, REDUCE WIDTH'S A TERM BY 20 PERCENT TO 7.579

NM-2120.A_820: RIO COSTILLA (DIVERSION ABOVE COSTILLA TO COMANCHE CREEK)

```
"SSTEMP (2.0.8)  ","02/02/2004  10:54 am"
"NoName"
"English",         "Segment Inflow (cfs)",            "2.966"
"English",         "Inflow Temperature (°F)",         "61.900"
"English",         "Segment Outflow (cfs)",           "4.064"
"English",         "Accretion Temp. (°F)",            "45.514"
"English",         "Latitude (degrees)",              "36.910"
"English",         "Segment Length (mi)",             "18.000"
"English",         "Upstream Elevation (ft)",         "8963.00"
"English",         "Downstream Elevation (ft)",       "7953.00"
"English",         "Width's A Term (s/ft²)",          "7.579"
"English",         "  B Term where W = A*Q**B",       "0.230"
"English",         "Manning's n",                     "0.037"
"English",         "Air Temperature (°F)",            "65.843"
"English",         "Relative Humidity (%)",           "69.752"
"English",         "Wind Speed (mph)",                "3.508"
"English",         "Ground Temperature (°F)",         "45.514"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "5.000"
"English",         "Ground Reflectivity (%)",         "25.000"
"English",         "Solar Radiation (Langleys/d)",    "540.720"
"English",         "Total Shade (%)",                 "73.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/31"
         "Predicted Mean (°F) = 62.34"
         "Estimated Maximum (°F) = 67.13"
         "Approximate Minimum (°F) = 57.56"
```

CALIBRATION RUN

NM-2120.A_600: RIO HONDO (RIO GRANDE TO USFS BOUNDARY)
"SSTEMP (2.0.8) ","02/02/2004 12:13 pm"
"NoName"

"English",	"Segment Inflow (cfs)",	"0.990"
"English",	"Inflow Temperature (°F)",	"50.830"
"English",	"Segment Outflow (cfs)",	"1.234"
"English",	"Accretion Temp. (°F)",	"50.540"
"English",	"Latitude (degrees)",	"36.540"
"English",	"Segment Length (mi)",	"8.500"
"English",	"Upstream Elevation (ft)",	"7650.00"
"English",	"Downstream Elevation (ft)",	"6453.00"
"English",	"Width's A Term (s/ft²)",	"10.862"
"English",	" B Term where W = A*Q**B",	"0.222"
"English",	"Manning's n",	"0.060"
"English",	"Air Temperature (°F)",	"72.244"
"English",	"Relative Humidity (%)",	"32.407"
"English",	"Wind Speed (mph)",	"5.514"
"English",	"Ground Temperature (°F)",	"50.540"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"615.240"
"English",	"Total Shade (%)",	"43.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/08"
"Predicted Mean (°F) = 65.27"
"Estimated Maximum (°F) = 73.85"
"Approximate Minimum (°F) = 56.68"

"Measured Mean (°F) = 63.6" (Error = ± 5%)
"Measured Maximum (°F) = 76.3" (Error = ± 6%)
"Measured Minimum (°F) = 53.9" (Error = ± 13%)

LOAD ALLOCATION: INCREASE SHADE TO 69.3 PERCENT, DECREASE WIDTH'S A TERM BY 50 PERCENT TO 5.431

NM-2120.A_600: RIO HONDO (RIO GRANDE TO USFS BOUNDARY)

"SSTEMP (2.0.8) ","02/02/2004 12:18 pm"		
"NoName"		
"English",	"Segment Inflow (cfs)",	"0.990"
"English",	"Inflow Temperature (°F)",	"50.830"
"English",	"Segment Outflow (cfs)",	"1.234"
"English",	"Accretion Temp. (°F)",	"50.540"
"English",	"Latitude (degrees)",	"36.540"
"English",	"Segment Length (mi)",	"8.500"
"English",	"Upstream Elevation (ft)",	"7650.00"
"English",	"Downstream Elevation (ft)",	"6453.00"
"English",	"Width's A Term (s/ft²)",	"5.431"
"English",	" B Term where W = A*Q**B",	"0.222"
"English",	"Manning's n",	"0.060"
"English",	"Air Temperature (°F)",	"72.244"
"English",	"Relative Humidity (%)",	"32.407"
"English",	"Wind Speed (mph)",	"5.514"
"English",	"Ground Temperature (°F)",	"50.540"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"615.240"
"English",	"Total Shade (%)",	"69.300"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/08"
"Predicted Mean (°F) = 61.20"
"Estimated Maximum (°F) = 67.08"
"Approximate Minimum (°F) = 55.31"

CALIBRATION RUN

NM-2120.A_512: RIO FERNANDO DE TAOS (RIO PUEBLO DE TAOS TO HEADWATERS)
"SSTEMP (2.0.8) ","02/02/2004 10:57 am"
"NoName"

"English",	"Segment Inflow (cfs)",	"0.000"
"English",	"Inflow Temperature (°F)",	"32.000"
"English",	"Segment Outflow (cfs)",	"0.696"
"English",	"Accretion Temp. (°F)",	"52.577"
"English",	"Latitude (degrees)",	"36.400"
"English",	"Segment Length (mi)",	"21.600"
"English",	"Upstream Elevation (ft)",	"8960.00"
"English",	"Downstream Elevation (ft)",	"5489.00"
"English",	"Width's A Term (s/ft²)",	"3.624"
"English",	" B Term where W = A*Q**B",	"0.224"
"English",	"Manning's n",	"0.036"
"English",	"Air Temperature (°F)",	"67.158"
"English",	"Relative Humidity (%)",	"64.744"
"English",	"Wind Speed (mph)",	"1.846"
"English",	"Ground Temperature (°F)",	"52.577"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"586.710"
"English",	"Total Shade (%)",	"50.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/31"
"Predicted Mean (°F) = 67.59"
"Estimated Maximum (°F) = 77.24"
"Approximate Minimum (°F) = 57.93"

"Measured Mean (°F) = 65.5" (Error = ± 6%)
"Measured Maximum (°F) = 71.8" (Error = ± 14%)
"Measured Minimum (°F) = 60.2" (Error = ± 8%)

LOAD ALLOCATION: INCREASE SHADE TO 79.2 PERCENT, DECREASE WIDTH'S A TERM BY 25 PERCENT TO 2.448

NM-2120.A_512: RIO FERNANDO DE TAOS (RIO PUEBLO DE TAOS TO HEADWATERS)

```
"SSTEMP (2.0.8)  ","02/02/2004  11:04 am"
"NoName"
"English",         "Segment Inflow (cfs)",            "0.000"
"English",         "Inflow Temperature (°F)",         "32.000"
"English",         "Segment Outflow (cfs)",           "0.696"
"English",         "Accretion Temp. (°F)",            "52.577"
"English",         "Latitude (degrees)",              "36.400"
"English",         "Segment Length (mi)",             "21.600"
"English",         "Upstream Elevation (ft)",         "8960.00"
"English",         "Downstream Elevation (ft)",       "5489.00"
"English",         "Width's A Term (s/ft²)",          "2.448"
"English",         "  B Term where W = A*Q**B",       "0.224"
"English",         "Manning's n",                     "0.036"
"English",         "Air Temperature (°F)",            "67.158"
"English",         "Relative Humidity (%)",           "64.744"
"English",         "Wind Speed (mph)",                "1.846"
"English",         "Ground Temperature (°F)",         "52.577"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "5.000"
"English",         "Ground Reflectivity (%)",         "25.000"
"English",         "Solar Radiation (Langleys/d)",    "586.710"
"English",         "Total Shade (%)",                 "79.200"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/31"
         "Predicted Mean (°F) = 61.91"
         "Estimated Maximum (°F) = 67.19"
         "Approximate Minimum (°F) = 56.64"
```

CALIBRATION RUN

NM-2119_05: RIO GRANDE (RED RIVER TO NM-CO BORDER)
"SSTEMP (2.0.8) ","02/02/2004 11:09 am"
"NoName"

"English",	"Segment Inflow (cfs)",	"62.380"
"English",	"Inflow Temperature (°F)",	"71.000"
"English",	"Segment Outflow (cfs)",	"67.415"
"English",	"Accretion Temp. (°F)",	"50.540"
"English",	"Latitude (degrees)",	"37.000"
"English",	"Segment Length (mi)",	"27.800"
"English",	"Upstream Elevation (ft)",	"7485.00"
"English",	"Downstream Elevation (ft)",	"6616.00"
"English",	"Width's A Term (s/ft²)",	"16.410"
"English",	" B Term where W = A*Q**B",	"0.336"
"English",	"Manning's n",	"0.035"
"English",	"Air Temperature (°F)",	"73.542"
"English",	"Relative Humidity (%)",	"21.897"
"English",	"Wind Speed (mph)",	"1.831"
"English",	"Ground Temperature (°F)",	"50.540"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"662.400"
"English",	"Total Shade (%)",	"50.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/05"

"Predicted Mean (°F) = 67.10"
"Estimated Maximum (°F) = 73.62"
"Approximate Minimum (°F) = 60.57"

"Measured Mean (°F) = 66.5" (Error = ± 2%)
"Measured Maximum (°F) = 69.1" (Error = ± 12%)
"Measured Minimum (°F) = 64.0" (Error = ± 11%)

LOAD ALLOCATION: REDUCE WIDTH'S A TERM BY 50 PERCENT TO 8.205,
INCREASE SHADE TO 74.5 PERCENT

NM-2119_05: RIO GRANDE (RED RIVER TO NM-CO BORDER)

"SSTEMP (2.0.8) ","02/02/2004 11:16 am"		
"NoName"		
"English",	"Segment Inflow (cfs)",	"62.380"
"English",	"Inflow Temperature (°F)",	"71.000"
"English",	"Segment Outflow (cfs)",	"67.415"
"English",	"Accretion Temp. (°F)",	"50.540"
"English",	"Latitude (degrees)",	"37.000"
"English",	"Segment Length (mi)",	"27.800"
"English",	"Upstream Elevation (ft)",	"7485.00"
"English",	"Downstream Elevation (ft)",	"6616.00"
"English",	"Width's A Term (s/ft²)",	"8.205"
"English",	" B Term where W = A*Q**B",	"0.336"
"English",	"Manning's n",	"0.035"
"English",	"Air Temperature (°F)",	"73.542"
"English",	"Relative Humidity (%)",	"21.897"
"English",	"Wind Speed (mph)",	"1.831"
"English",	"Ground Temperature (°F)",	"50.540"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"662.400"
"English",	"Total Shade (%)",	"74.500"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/05"
"Predicted Mean (°F) = 64.38"
"Estimated Maximum (°F) = 67.35"
"Approximate Minimum (°F) = 61.42"

CALIBRATION RUN

NM-2119_20: RIO PUEBLO DE TAOS (RIO GRANDE TO ARROYO DEL ALAMO)
"SSTEMP (2.0.8) ","02/02/2004 01:47 pm"
"NoName"

"English",	"Segment Inflow (cfs)",	"7.408"
"English",	"Inflow Temperature (°F)",	"72.430"
"English",	"Segment Outflow (cfs)",	"7.544"
"English",	"Accretion Temp. (°F)",	"50.540"
"English",	"Latitude (degrees)",	"36.340"
"English",	"Segment Length (mi)",	"6.400"
"English",	"Upstream Elevation (ft)",	"6670.00"
"English",	"Downstream Elevation (ft)",	"6099.00"
"English",	"Width's A Term (s/ft²)",	"6.482"
"English",	" B Term where W = A*Q**B",	"0.253"
"English",	"Manning's n",	"0.062"
"English",	"Air Temperature (°F)",	"77.634"
"English",	"Relative Humidity (%)",	"22.822"
"English",	"Wind Speed (mph)",	"8.119"
"English",	"Ground Temperature (°F)",	"50.540"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"663.300"
"English",	"Total Shade (%)",	"16.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/10"

"Predicted Mean (°F) = 70.03"
"Estimated Maximum (°F) = 78.52"
"Approximate Minimum (°F) = 61.55"

"Measured Mean (°F) = 70.1" (Error = ± 0%)
"Measured Maximum (°F) = 77.3" (Error = ± 3%)
"Measured Minimum (°F) = 64.3" (Error = ± 8%)

LOAD ALLOCATION: INCREASE SHADE TO 92.8 PERCENT, REDUCE WIDTH'S A TERM BY 50 PERCENT TO 3.241

NM-2119_20: RIO PUEBLO DE TAOS (RIO GRANDE TO ARROYO DEL ALAMO)

"SSTEMP (2.0.8) ","02/02/2004 01:56 pm"		
"NoName"		
"English",	"Segment Inflow (cfs)",	"7.408"
"English",	"Inflow Temperature (°F)",	"72.430"
"English",	"Segment Outflow (cfs)",	"7.544"
"English",	"Accretion Temp. (°F)",	"50.540"
"English",	"Latitude (degrees)",	"36.340"
"English",	"Segment Length (mi)",	"6.400"
"English",	"Upstream Elevation (ft)",	"6670.00"
"English",	"Downstream Elevation (ft)",	"6099.00"
"English",	"Width's A Term (s/ft²)",	"3.241"
"English",	" B Term where W = A*Q**B",	"0.253"
"English",	"Manning's n",	"0.062"
"English",	"Air Temperature (°F)",	"77.634"
"English",	"Relative Humidity (%)",	"22.822"
"English",	"Wind Speed (mph)",	"8.119"
"English",	"Ground Temperature (°F)",	"50.540"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"663.300"
"English",	"Total Shade (%)",	"92.800"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/10"
"Predicted Mean (°F) = 66.33"
"Estimated Maximum (°F) = 67.90"
"Approximate Minimum (°F) = 64.76"

CALIBRATION RUN

NM-2119_30: RIO PUEBLO DE TAOS (ARROYO DEL ALAMO TO RIO GRANDE DEL RANCHO)

```
"SSTEMP (2.0.8)  ","02/02/2004  02:14 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "7.000"
"English",         "Inflow Temperature (°F)",         "72.430"
"English",         "Segment Outflow (cfs)",           "7.408"
"English",         "Accretion Temp. (°F)",            "50.540"
"English",         "Latitude (degrees)",              "36.380"
"English",         "Segment Length (mi)",             "1.200"
"English",         "Upstream Elevation (ft)",         "6730.00"
"English",         "Downstream Elevation (ft)",       "6670.00"
"English",         "Width's A Term (s/ft²)",          "10.437"
"English",         "  B Term where W = A*Q**B",       "0.241"
"English",         "Manning's n",                     "0.018"
"English",         "Air Temperature (°F)",            "76.498"
"English",         "Relative Humidity (%)",           "23.682"
"English",         "Wind Speed (mph)",                "8.119"
"English",         "Ground Temperature (°F)",         "50.540"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "5.000"
"English",         "Ground Reflectivity (%)",         "25.000"
"English",         "Solar Radiation (Langleys/d)",    "663.300"
"English",         "Total Shade (%)",                 "5.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/10"
         "Predicted Mean (°F) = 70.61"
         "Estimated Maximum (°F) = 80.77"
         "Approximate Minimum (°F) = 60.45"

         "Measured Mean (°F) = 70.1"      (Error = ±  1%)
         "Measured Maximum (°F) = 77.3"   (Error = ±  8%)
         "Measured Minimum (°F) = 64.3"   (Error = ± 12%)
```

LOAD ALLOCATION: INCREASE SHADE TO 96.7 PERCENT

NM-2119_30: RIO PUEBLO DE TAOS (ARROYO DEL ALAMO TO RIO GRANDE DEL RANCHO)

```
"SSTEMP (2.0.8)  ","02/02/2004  02:28 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "7.000"
"English",         "Inflow Temperature (°F)",         "72.430"
"English",         "Segment Outflow (cfs)",           "7.408"
"English",         "Accretion Temp. (°F)",            "50.540"
"English",         "Latitude (degrees)",              "36.380"
"English",         "Segment Length (mi)",             "1.200"
"English",         "Upstream Elevation (ft)",         "6730.00"
"English",         "Downstream Elevation (ft)",       "6670.00"
"English",         "Width's A Term (s/ft²)",          "10.437"
"English",         "  B Term where W = A*Q**B",       "0.241"
"English",         "Manning's n",                     "0.018"
"English",         "Air Temperature (°F)",            "76.498"
"English",         "Relative Humidity (%)",           "23.682"
"English",         "Wind Speed (mph)",                "8.119"
"English",         "Ground Temperature (°F)",         "50.540"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "5.000"
"English",         "Ground Reflectivity (%)",         "25.000"
"English",         "Solar Radiation (Langleys/d)",    "663.300"
"English",         "Total Shade (%)",                 "96.700"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/10"
         "Predicted Mean (°F) = 66.81"
         "Estimated Maximum (°F) = 67.95"
         "Approximate Minimum (°F) = 65.67"
```

CALIBRATION RUN

NM-2120.A_511: RIO PUEBLO DE TAOS (RIO GRANDE DEL RANCHO TO TAOS PUEBLO BDY)

```
"SSTEMP (2.0.8)  ","02/02/2004  03:00 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "1.762"
"English",         "Inflow Temperature (°F)",         "69.100"
"English",         "Segment Outflow (cfs)",           "2.262"
"English",         "Accretion Temp. (°F)",            "52.577"
"English",         "Latitude (degrees)",              "36.390"
"English",         "Segment Length (mi)",             "2.800"
"English",         "Upstream Elevation (ft)",         "6859.00"
"English",         "Downstream Elevation (ft)",       "6730.00"
"English",         "Width's A Term (s/ft²)",          "7.436"
"English",         "  B Term where W = A*Q**B",       "0.185"
"English",         "Manning's n",                     "0.078"
"English",         "Air Temperature (°F)",            "66.069"
"English",         "Relative Humidity (%)",           "67.080"
"English",         "Wind Speed (mph)",                "1.846"
"English",         "Ground Temperature (°F)",         "52.577"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "5.000"
"English",         "Ground Reflectivity (%)",         "25.000"
"English",         "Solar Radiation (Langleys/d)",    "586.700"
"English",         "Total Shade (%)",                 "7.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/31"
         "Predicted Mean (°F) = 71.89"
         "Estimated Maximum (°F) = 84.85"
         "Approximate Minimum (°F) = 58.93"

       "Measured Mean (°F) = 64.1"        (Error = ± 24%)
         "Measured Maximum (°F) = 77.2"   (Error = ± 17%)
         "Measured Minimum (°F) = 55.5"   (Error = ± 15%)
```

LOAD ALLOCATION: INCREASE SHADE TO 77.3 PERCENT, DECREASE WIDTH'S A TERM BY 50 PERCENT TO 3.718

NM-2120.A_511: RIO PUEBLO DE TAOS (RIO GRANDE DEL RANCHO TO TAOS PUEBLO BDY)

"SSTEMP (2.0.8) ","02/02/2004 03:07 pm"
"NoName"

"English",	"Segment Inflow (cfs)",	"1.762"
"English",	"Inflow Temperature (°F)",	"69.100"
"English",	"Segment Outflow (cfs)",	"2.262"
"English",	"Accretion Temp. (°F)",	"52.577"
"English",	"Latitude (degrees)",	"36.390"
"English",	"Segment Length (mi)",	"2.800"
"English",	"Upstream Elevation (ft)",	"6859.00"
"English",	"Downstream Elevation (ft)",	"6730.00"
"English",	"Width's A Term (s/ft²)",	"3.718"
"English",	" B Term where W = A*Q**B",	"0.185"
"English",	"Manning's n",	"0.078"
"English",	"Air Temperature (°F)",	"66.069"
"English",	"Relative Humidity (%)",	"67.080"
"English",	"Wind Speed (mph)",	"1.846"
"English",	"Ground Temperature (°F)",	"52.577"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"586.700"
"English",	"Total Shade (%)",	"77.300"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/31"
"Predicted Mean (°F) = 64.24"
"Estimated Maximum (°F) = 67.51"
"Approximate Minimum (°F) = 60.96"

CALIBRATION RUN

NM-2120.A_900: RIO DE LOS PINOS (COLORADO BORDER TO HEADWATERS)
"SSTEMP (2.0.8) ","02/02/2004 01:25 pm"
"NoName"

"English",	"Segment Inflow (cfs)",	"0.000"
"English",	"Inflow Temperature (°F)",	"32.000"
"English",	"Segment Outflow (cfs)",	"9.283"
"English",	"Accretion Temp. (°F)",	"41.389"
"English",	"Latitude (degrees)",	"36.970"
"English",	"Segment Length (mi)",	"20.900"
"English",	"Upstream Elevation (ft)",	"9624.00"
"English",	"Downstream Elevation (ft)",	"8120.00"
"English",	"Width's A Term (s/ft²)",	"14.463"
"English",	" B Term where W = A*Q**B",	"0.275"
"English",	"Manning's n",	"0.040"
"English",	"Air Temperature (°F)",	"63.865"
"English",	"Relative Humidity (%)",	"40.527"
"English",	"Wind Speed (mph)",	"1.734"
"English",	"Ground Temperature (°F)",	"41.389"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"676.800"
"English",	"Total Shade (%)",	"20.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/03"
"Predicted Mean (°F) = 65.52"
"Estimated Maximum (°F) = 80.02"
"Approximate Minimum (°F) = 51.02"

"Measured Mean (°F) = 66.8" (Error = ± 4%)
"Measured Maximum (°F) = 77.5" (Error = ± 6%)
"Measured Minimum (°F) = 57.2" (Error = ± 24%)

LOAD ALLOCATION: INCREASE TOTAL SHADE TO 58.6 PERCENT, REDUCE WIDTH'S A TERM BY 20 PERCENT TO 11.570

NM-2120.A_900: RIO DE LOS PINOS (COLORADO BORDER TO HEADWATERS)

```
"SSTEMP (2.0.8)  ","02/02/2004  01:42 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "0.000"
"English",         "Inflow Temperature (°F)",         "32.000"
"English",         "Segment Outflow (cfs)",           "9.283"
"English",         "Accretion Temp. (°F)",            "41.389"
"English",         "Latitude (degrees)",              "36.970"
"English",         "Segment Length (mi)",             "20.900"
"English",         "Upstream Elevation (ft)",         "9624.00"
"English",         "Downstream Elevation (ft)",       "8120.00"
"English",         "Width's A Term (s/ft²)",          "11.570"
"English",         "  B Term where W = A*Q**B",       "0.275"
"English",         "Manning's n",                     "0.040"
"English",         "Air Temperature (°F)",            "63.865"
"English",         "Relative Humidity (%)",           "40.527"
"English",         "Wind Speed (mph)",                "1.734"
"English",         "Ground Temperature (°F)",         "41.389"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "5.000"
"English",         "Ground Reflectivity (%)",         "25.000"
"English",         "Solar Radiation (Langleys/d)",    "676.800"
"English",         "Total Shade (%)",                 "58.600"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/03"
         "Predicted Mean (°F) = 57.26"
         "Estimated Maximum (°F) = 66.02"
         "Approximate Minimum (°F) = 48.49"
```

CALIBRATION RUN

NM-2120.A_901: RIO SAN ANTONIO (MONTOYA CANYON TO HEADWATERS)
"SSTEMP (2.0.8) ","03/30/2004 12:57 pm"
"NoName"

"English",	"Segment Inflow (cfs)",	"0.000"
"English",	"Inflow Temperature (°F)",	"32.000"
"English",	"Segment Outflow (cfs)",	"2.449"
"English",	"Accretion Temp. (°F)",	"41.389"
"English",	"Latitude (degrees)",	"36.860"
"English",	"Segment Length (mi)",	"9.100"
"English",	"Upstream Elevation (ft)",	"8809.00"
"English",	"Downstream Elevation (ft)",	"8750.00"
"English",	"Width's A Term (s/ft²)",	"14.570"
"English",	" B Term where W = A*Q**B",	"0.158"
"English",	"Manning's n",	"0.039"
"English",	"Air Temperature (°F)",	"62.867"
"English",	"Relative Humidity (%)",	"41.866"
"English",	"Wind Speed (mph)",	"1.734"
"English",	"Ground Temperature (°F)",	"41.389"
"English",	"Thermal gradient (j/m²/s/C)",	"1.650"
"English",	"Possible Sun (%)",	"76.000"
"English",	"Dust Coefficient",	"5.000"
"English",	"Ground Reflectivity (%)",	"25.000"
"English",	"Solar Radiation (Langleys/d)",	"676.800"
"English",	"Total Shade (%)",	"16.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/03"
"Predicted Mean (°F) = 66.41"
"Estimated Maximum (°F) = 80.57"
"Approximate Minimum (°F) = 52.25"

"Measured Mean (°F) = 65.9" (Error = ± 1%)
"Measured Maximum (°F) = 77.6" (Error = ± 7%)
"Measured Minimum (°F) = 54.8" (Error = ± 11%)

LOAD ALLOCATION: INCREASE SHADE TO 55 PERCENT, DECREASE WIDTH'S A TERM TO 10.75

NM-2120.A_901: RIO SAN ANTONIO (MONTOYA CANYON TO HEADWATERS)

```
"SSTEMP (2.0.8)  ","03/30/2004  01:16 pm"
"NoName"
"English",         "Segment Inflow (cfs)",            "0.000"
"English",         "Inflow Temperature (°F)",         "32.000"
"English",         "Segment Outflow (cfs)",           "2.449"
"English",         "Accretion Temp. (°F)",            "41.389"
"English",         "Latitude (degrees)",              "36.860"
"English",         "Segment Length (mi)",             "9.100"
"English",         "Upstream Elevation (ft)",         "8809.00"
"English",         "Downstream Elevation (ft)",       "8750.00"
"English",         "Width's A Term (s/ft²)",          "10.750"
"English",         "  B Term where W = A*Q**B",       "0.158"
"English",         "Manning's n",                     "0.039"
"English",         "Air Temperature (°F)",            "62.867"
"English",         "Relative Humidity (%)",           "41.866"
"English",         "Wind Speed (mph)",                "1.734"
"English",         "Ground Temperature (°F)",         "41.389"
"English",         "Thermal gradient (j/m²/s/C)",     "1.650"
"English",         "Possible Sun (%)",                "76.000"
"English",         "Dust Coefficient",                "5.000"
"English",         "Ground Reflectivity (%)",         "25.000"
"English",         "Solar Radiation (Langleys/d)",    "676.800"
"English",         "Total Shade (%)",                 "55.000"

"Dam at Head of Segment","Unchecked"
" Maximum Air Temp (°F)","Unchecked"
"Solar Radiation","Enabled"
"Total Shade","Enabled"
"Month/day","07/03"
         "Predicted Mean (°F) = 57.75"
         "Estimated Maximum (°F) = 66.27"
         "Approximate Minimum (°F) = 49.23"
```