

FINAL SUISUN CREEK WATERSHED ASSESSMENT AND ENHANCEMENT PLAN

APPENDICES



Surveying Suisun Creek Channel

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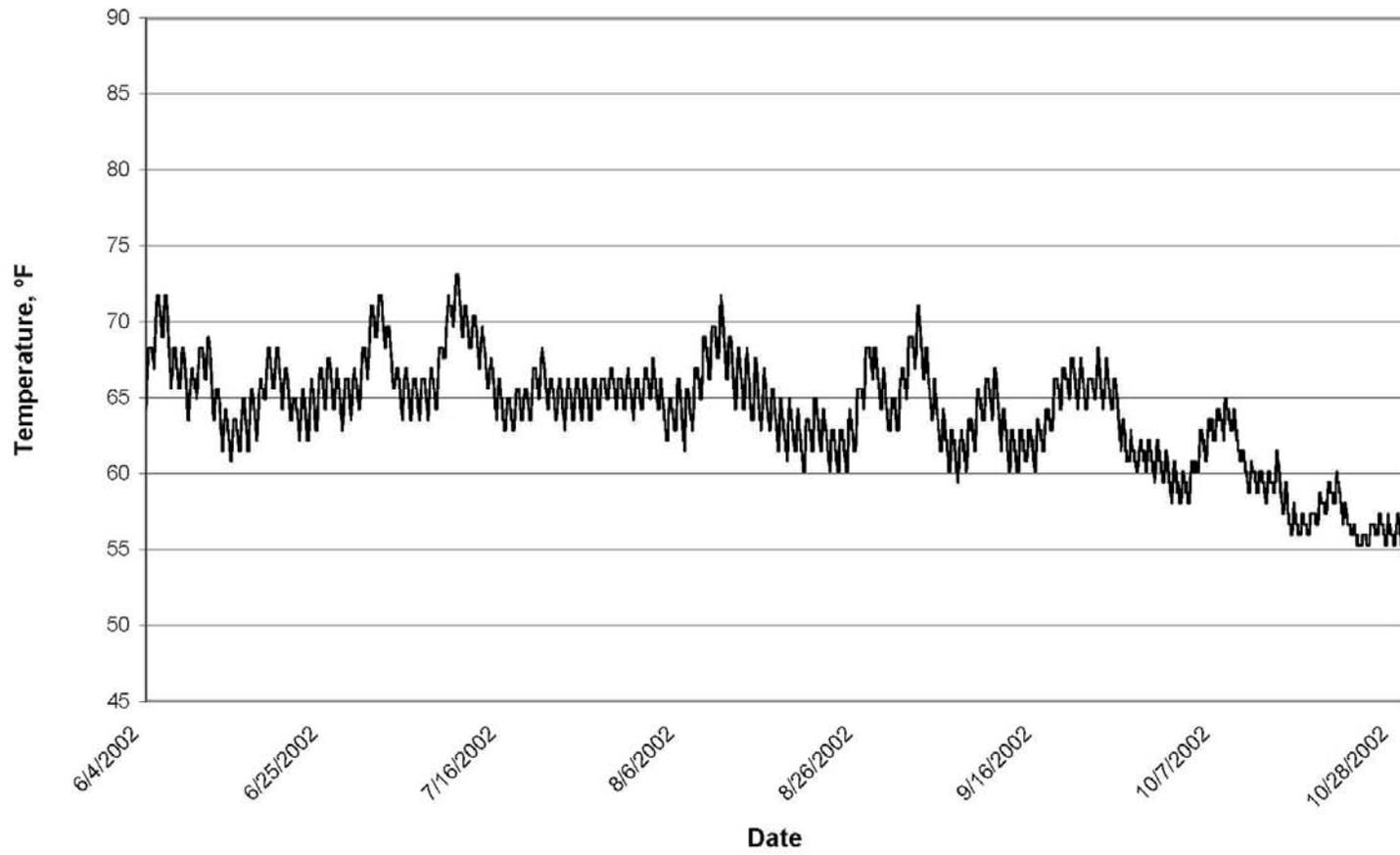
Funded by the California State Coastal Conservancy

February 2004

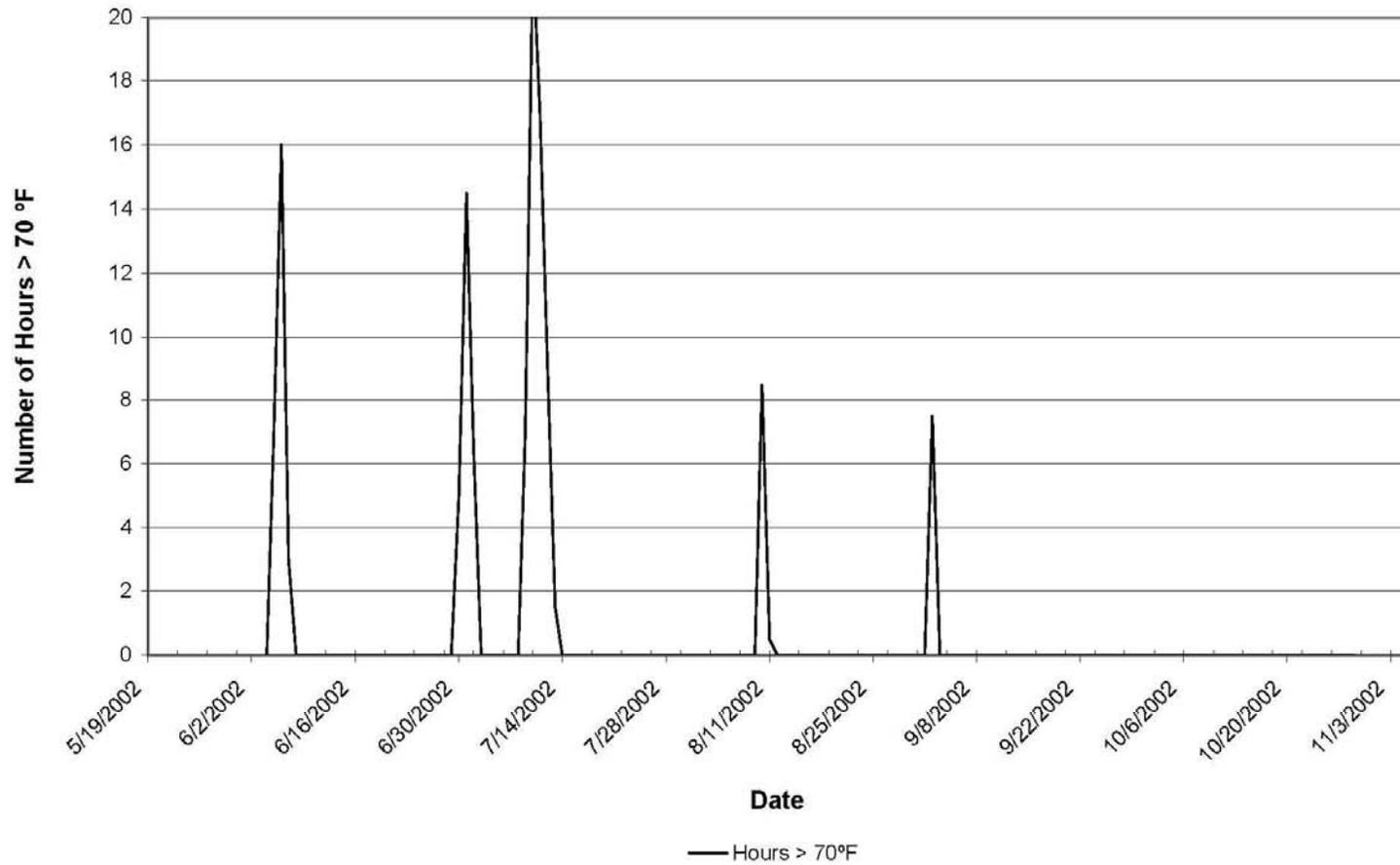
APPENDIX 1

WATER TEMPERATURES AT TWENTY-ONE STATIONS ON SUISUN, WOODEN VALLEY AND WHITE CREEKS IN 2002 AND 2003

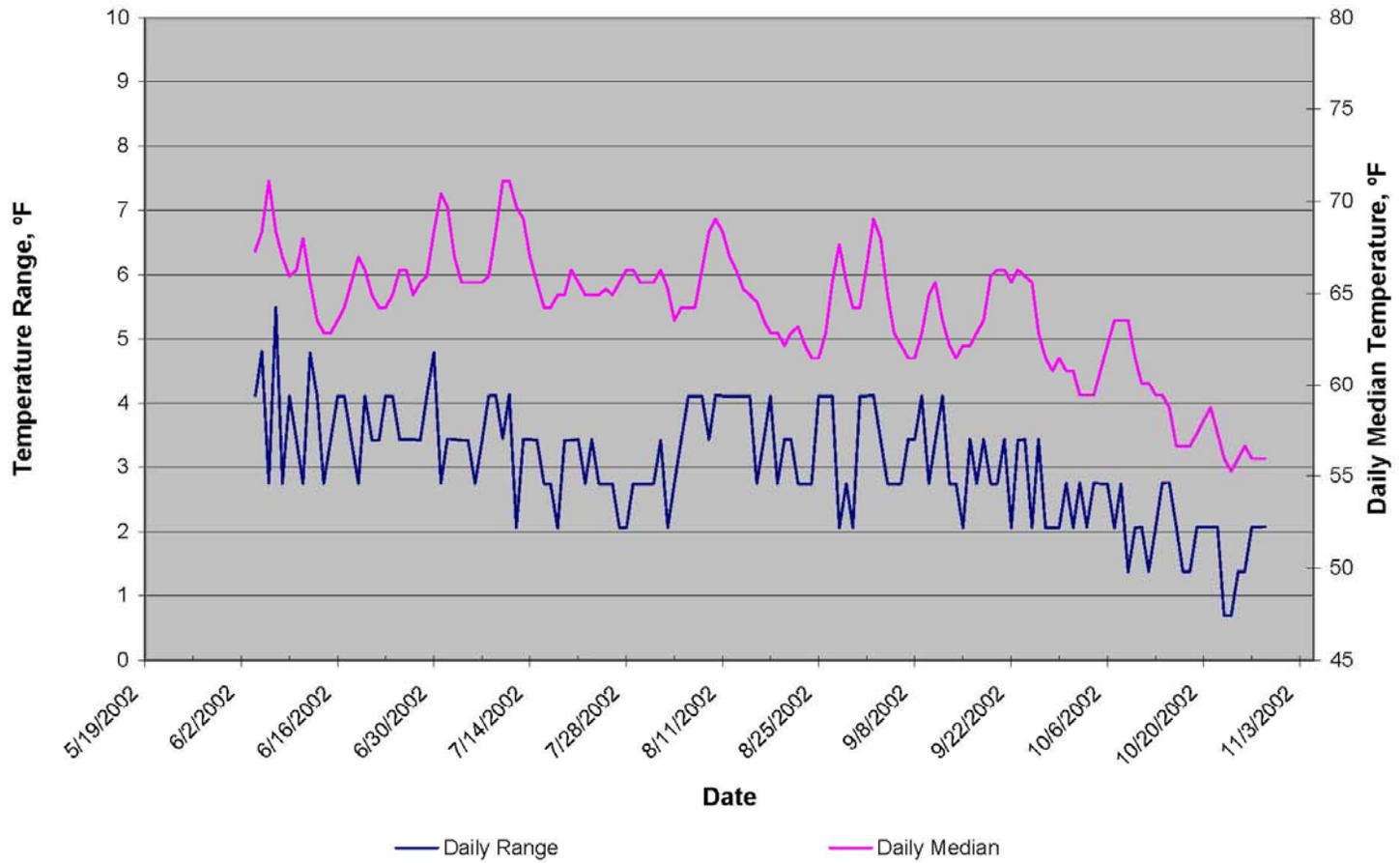
Suisun Creek 1: June-October 2002



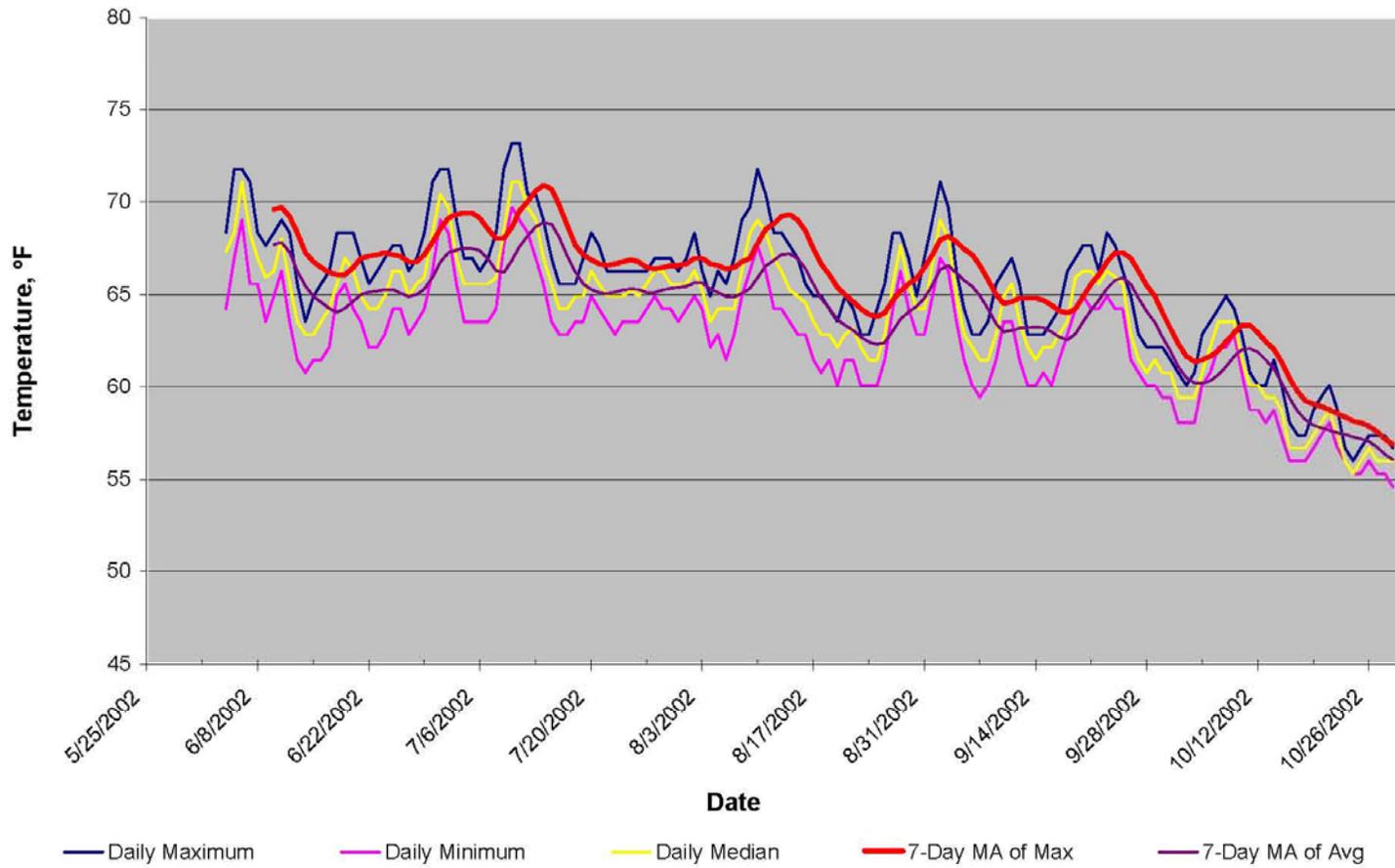
Suisun Creek 1 - 2002
Daily Water Temperature Hours Greater than 70°



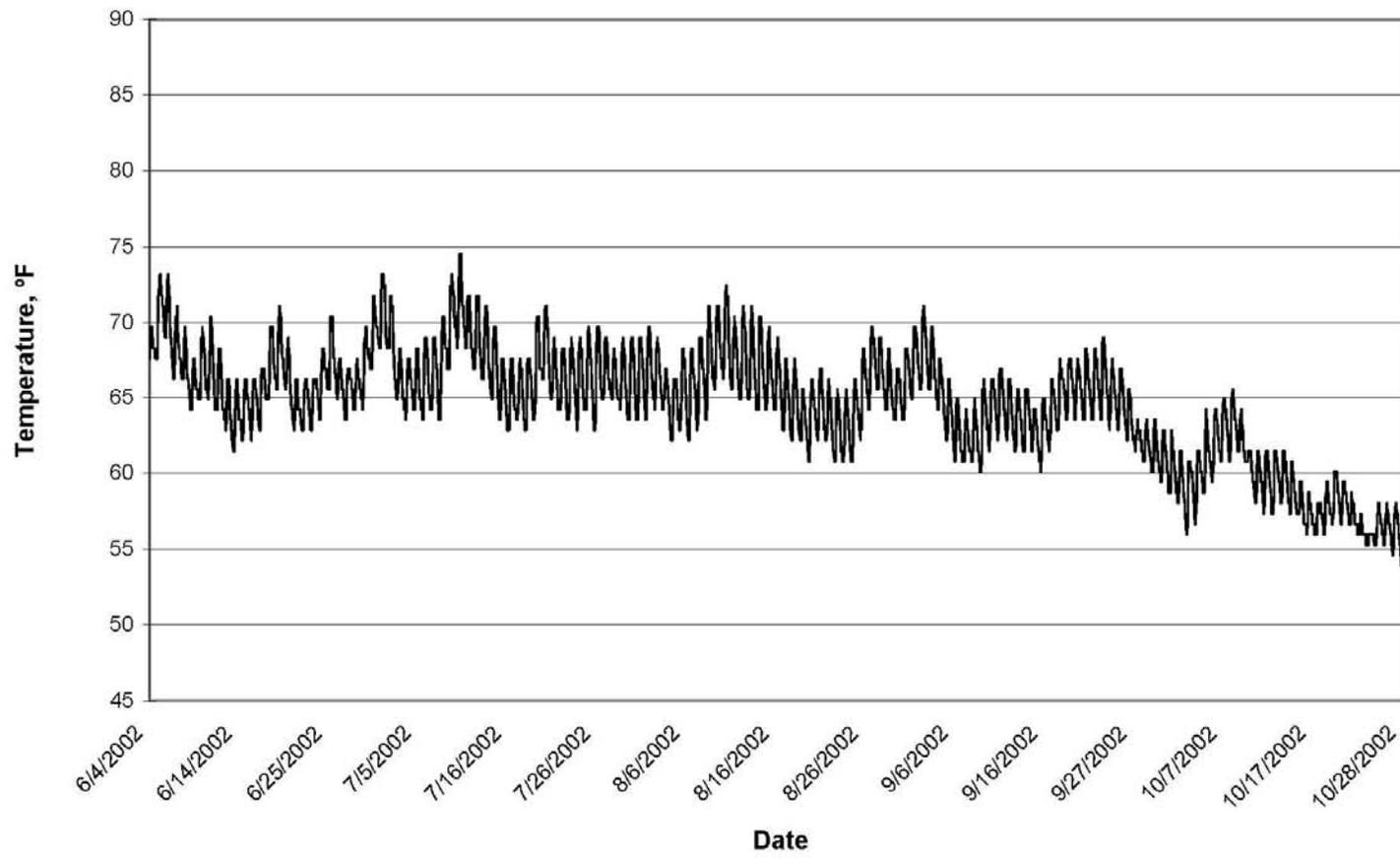
Suisun Creek 1 - 2002
Daily Range in Water Temperature



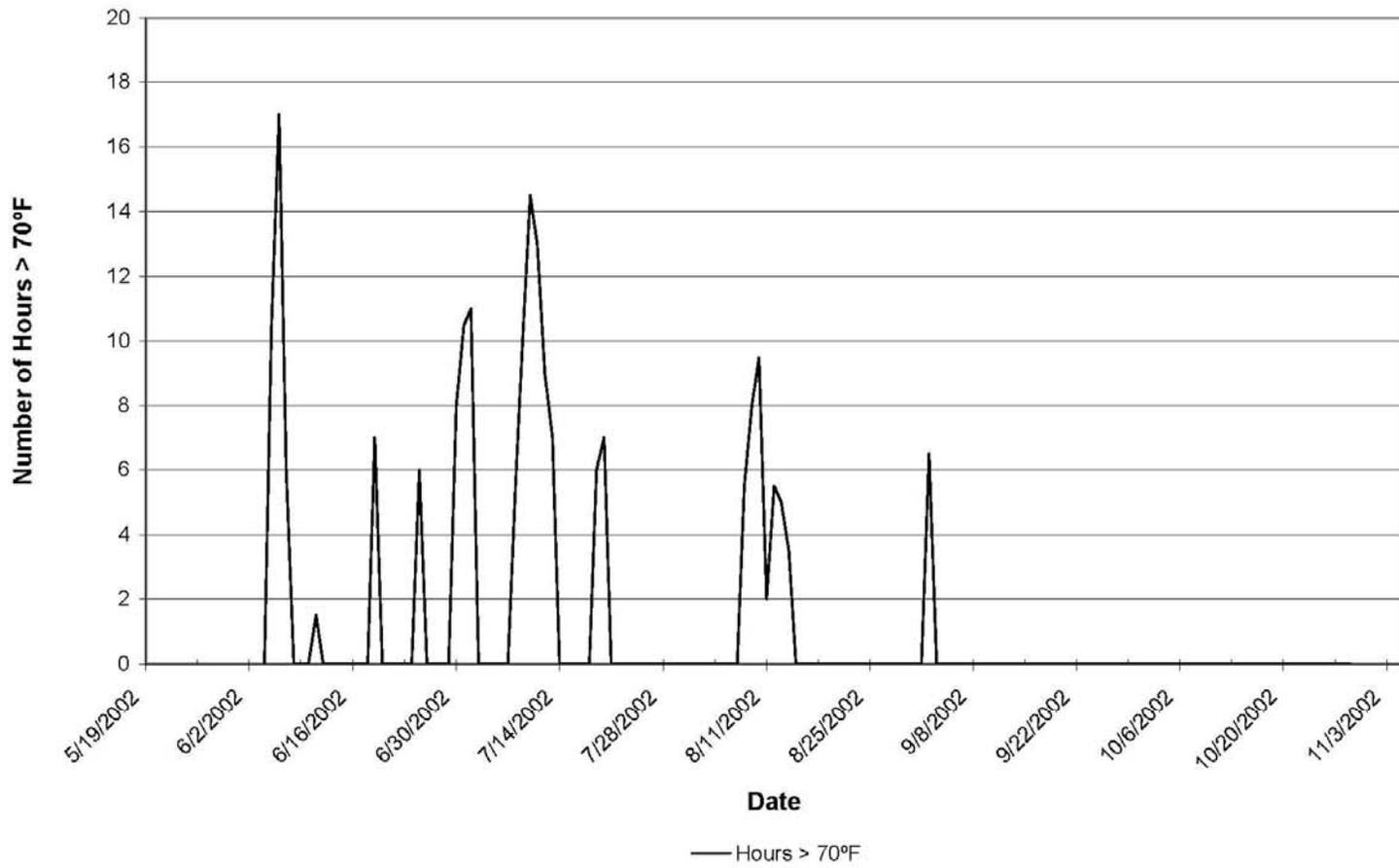
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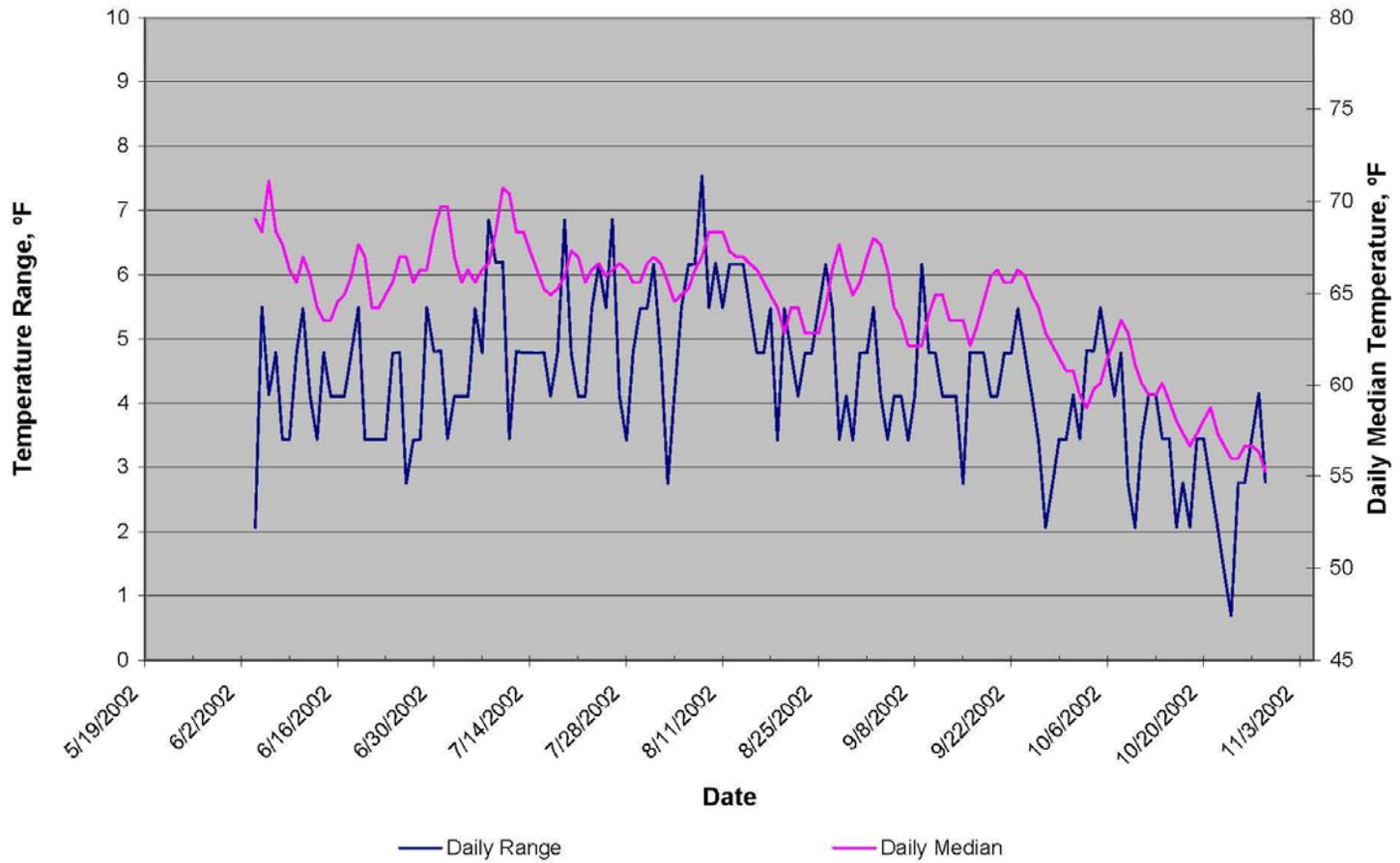
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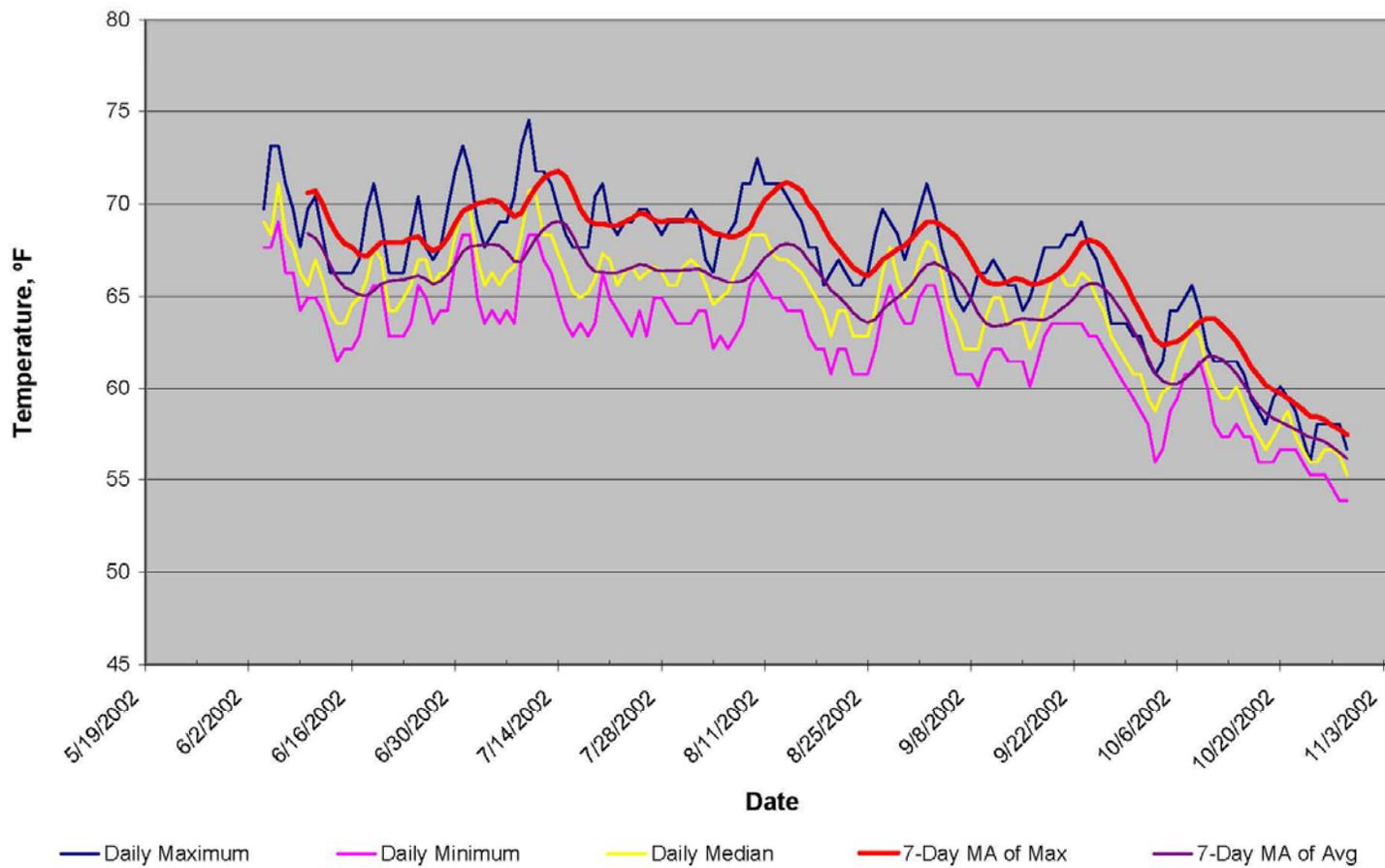
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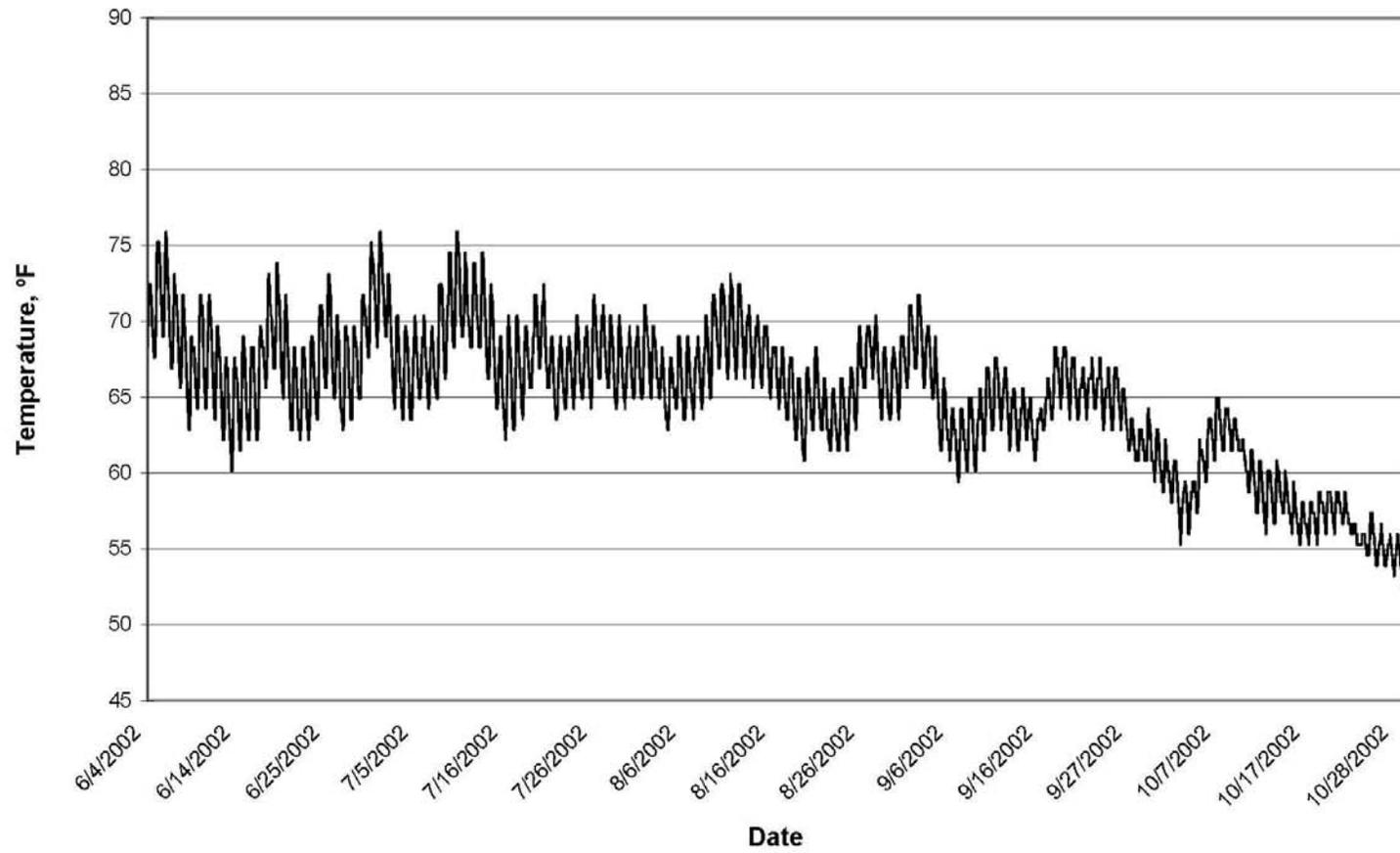
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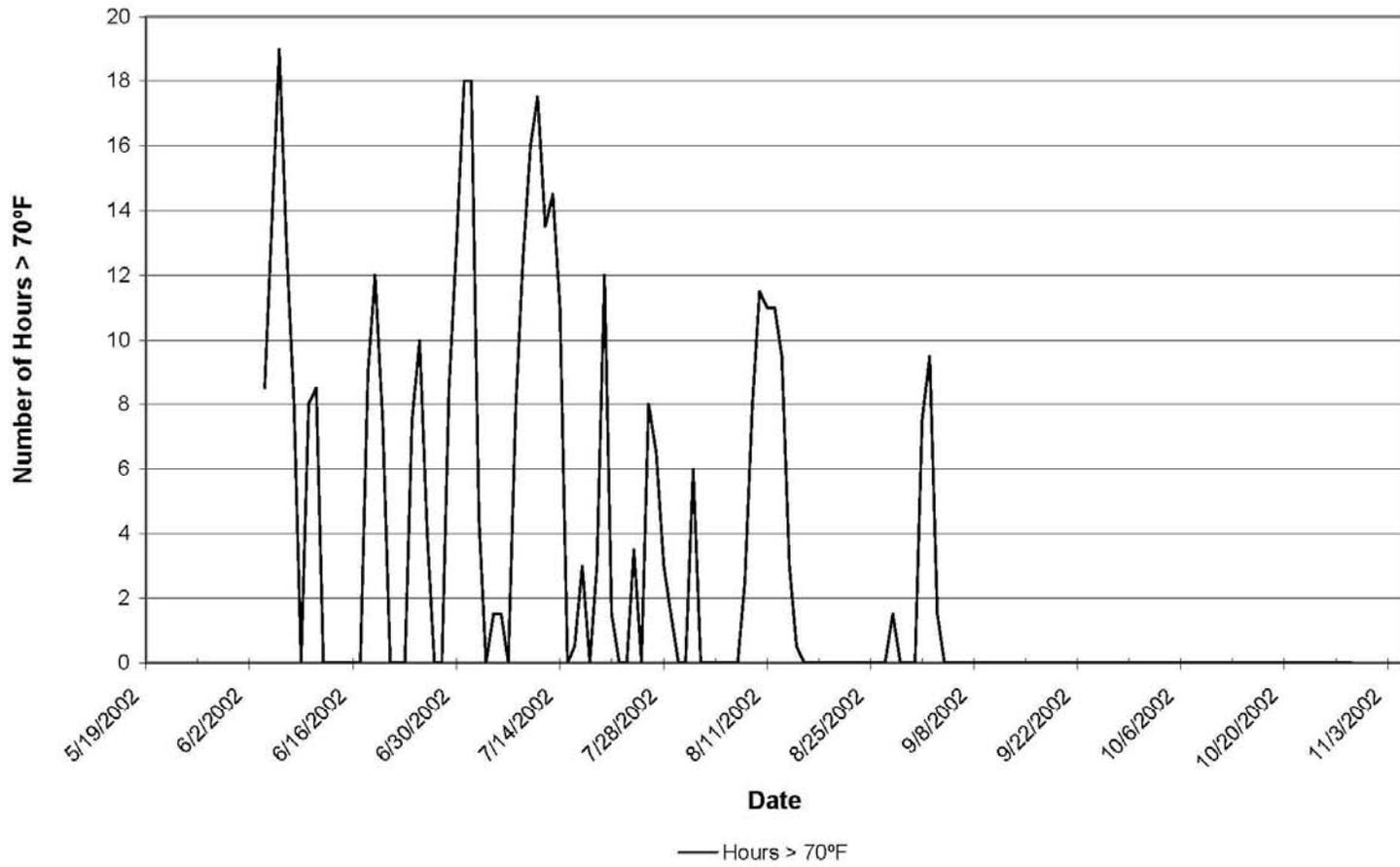
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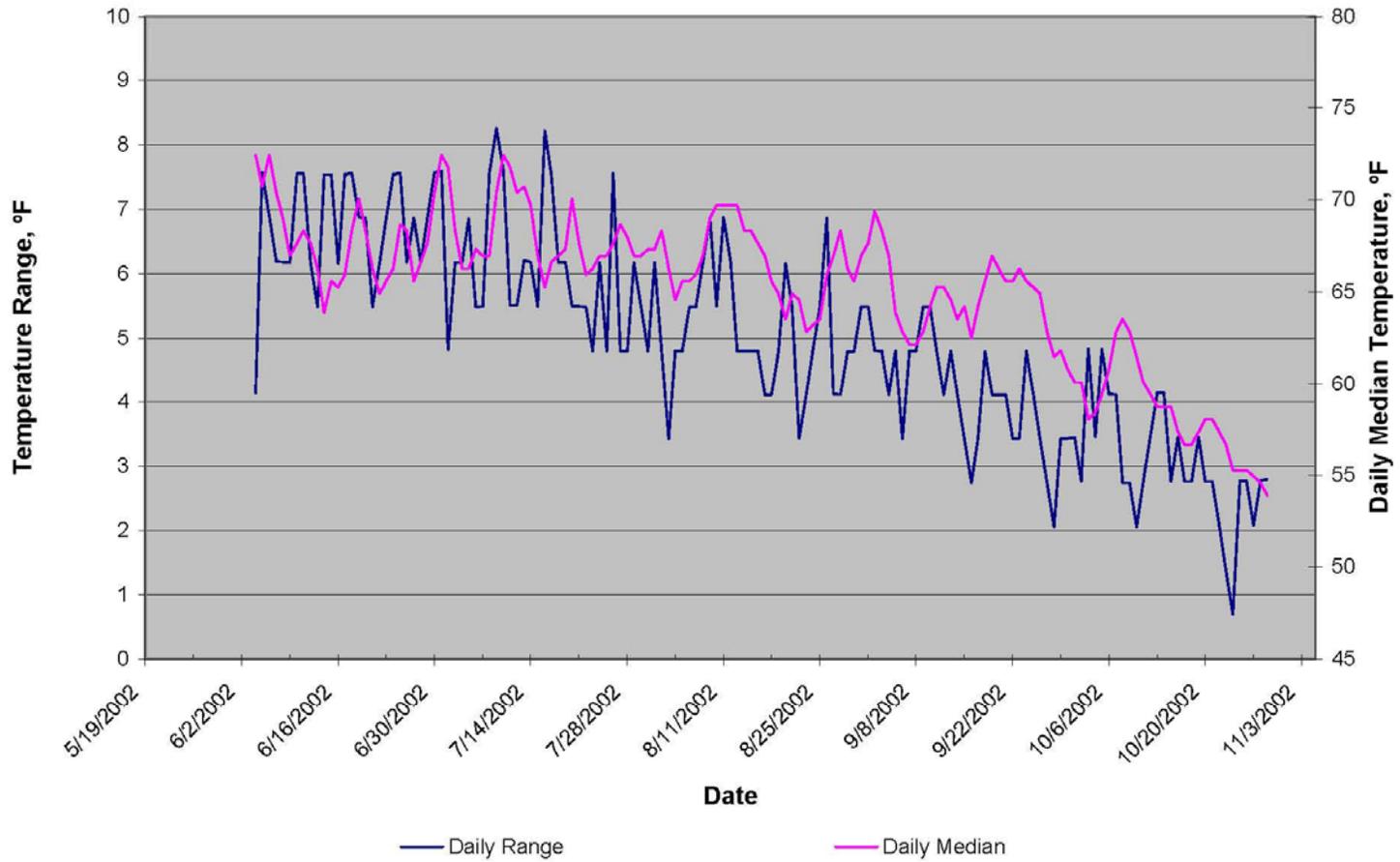
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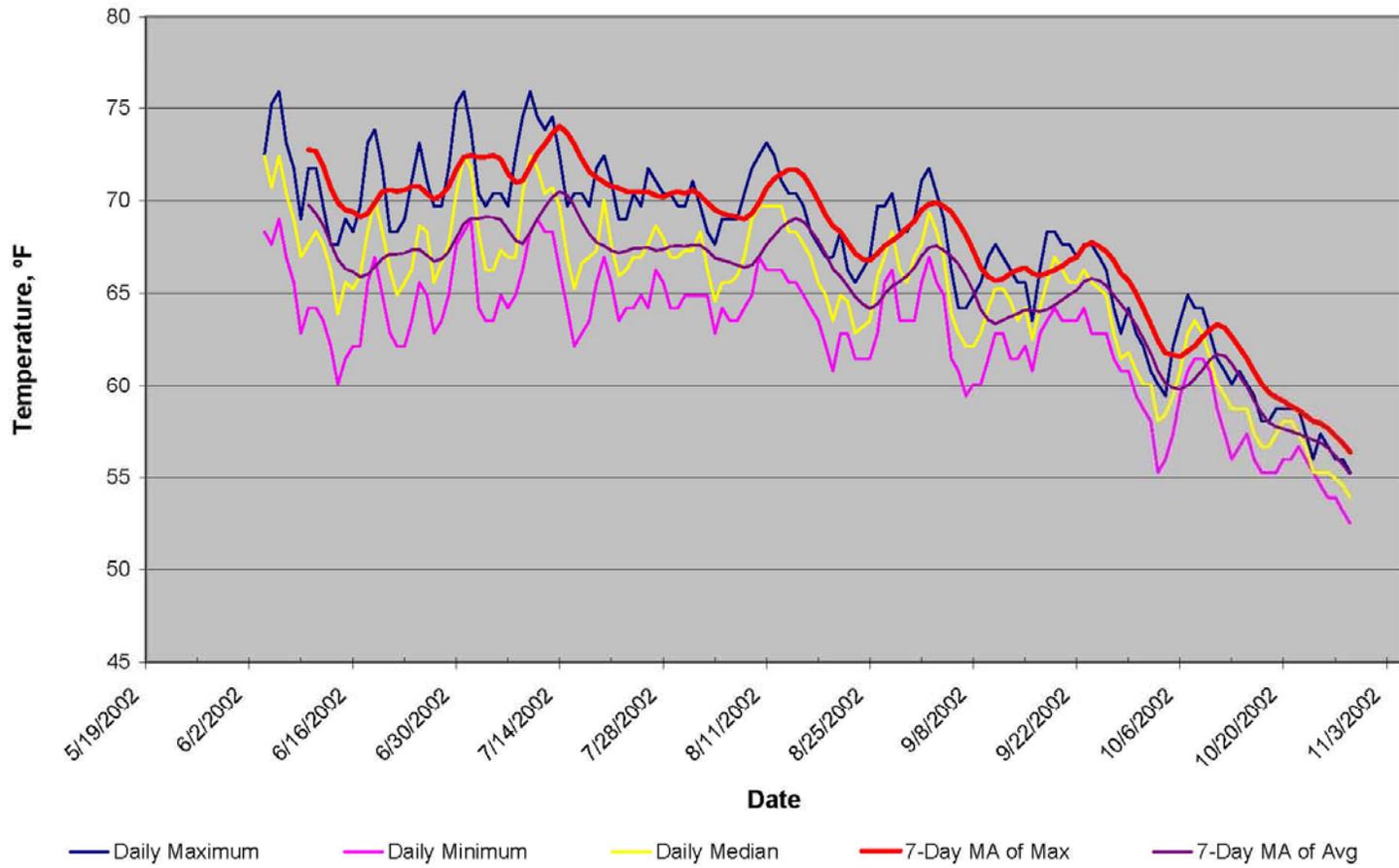
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Daily Water Temperature Hours Greater than 70°F



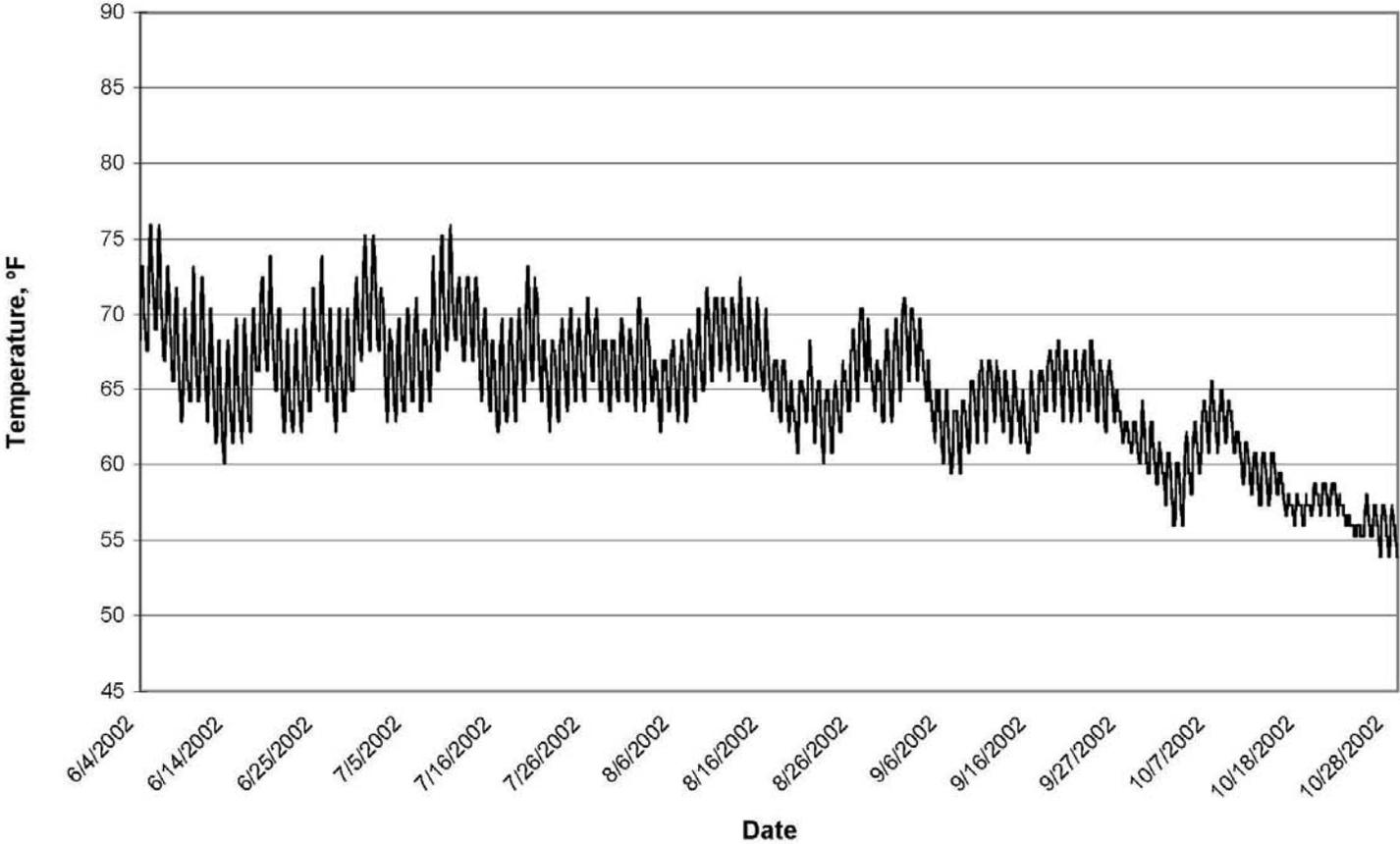
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Daily Range in Water Temperature



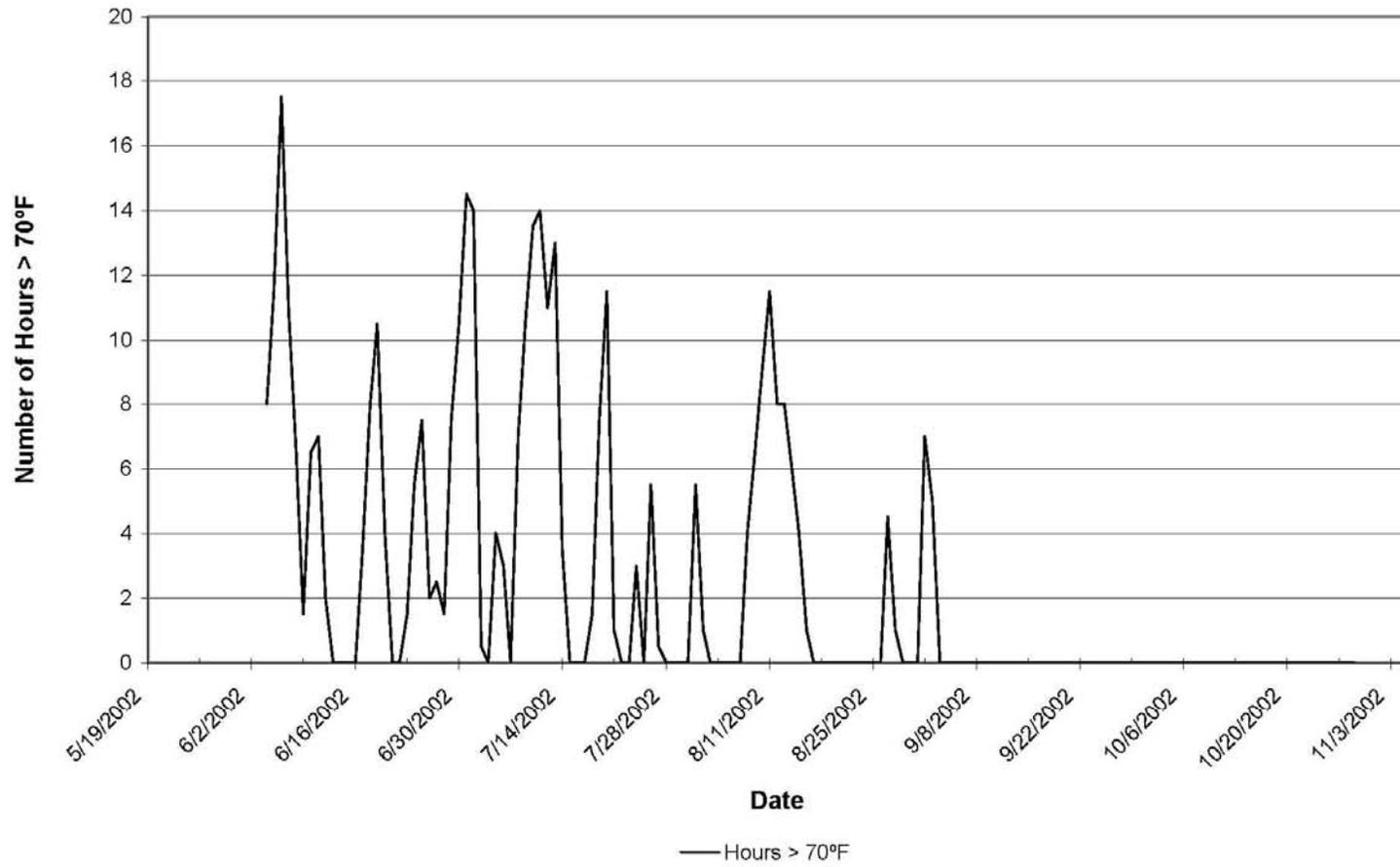
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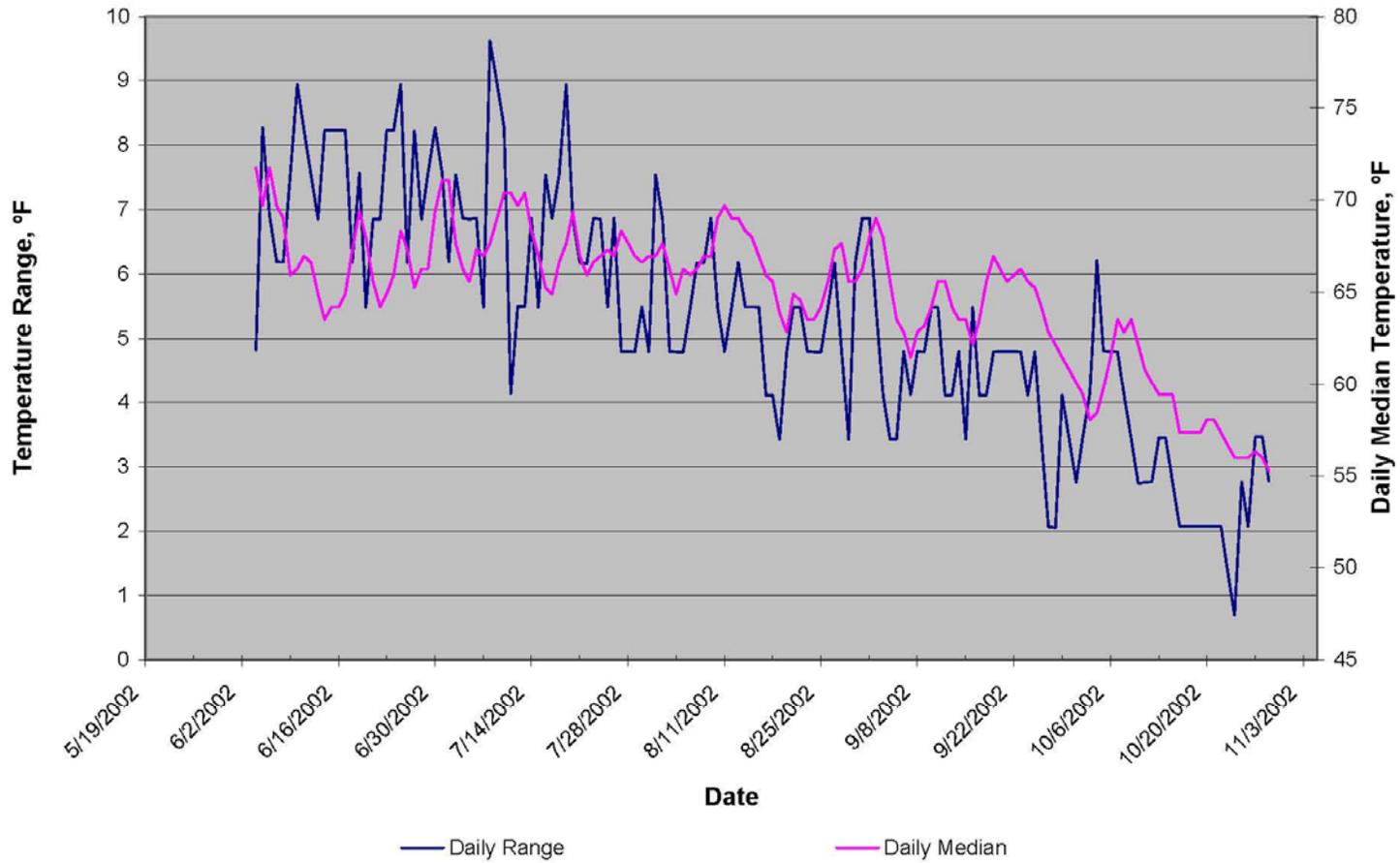
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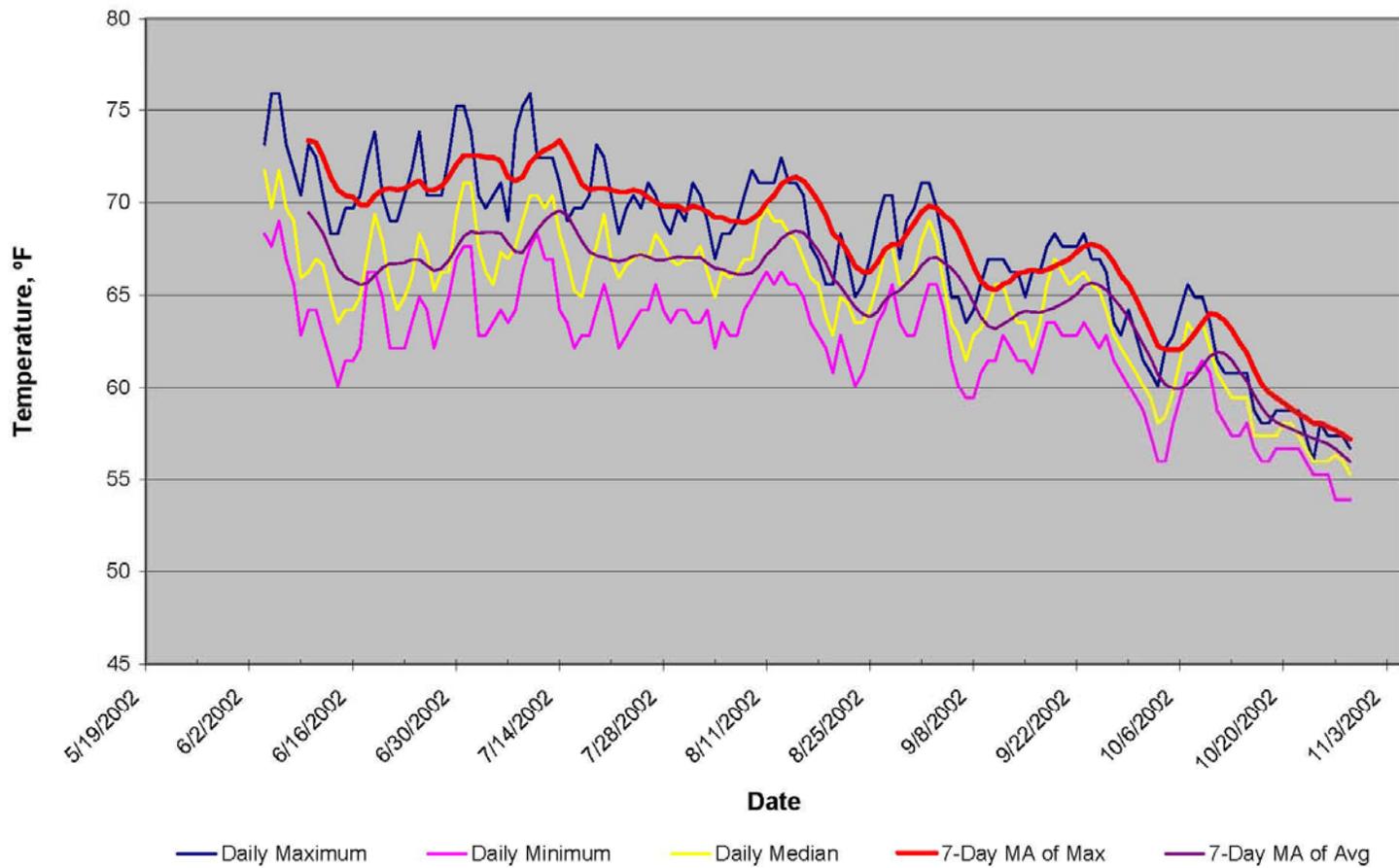
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Daily Water Temperature Hours Greater than 70°F



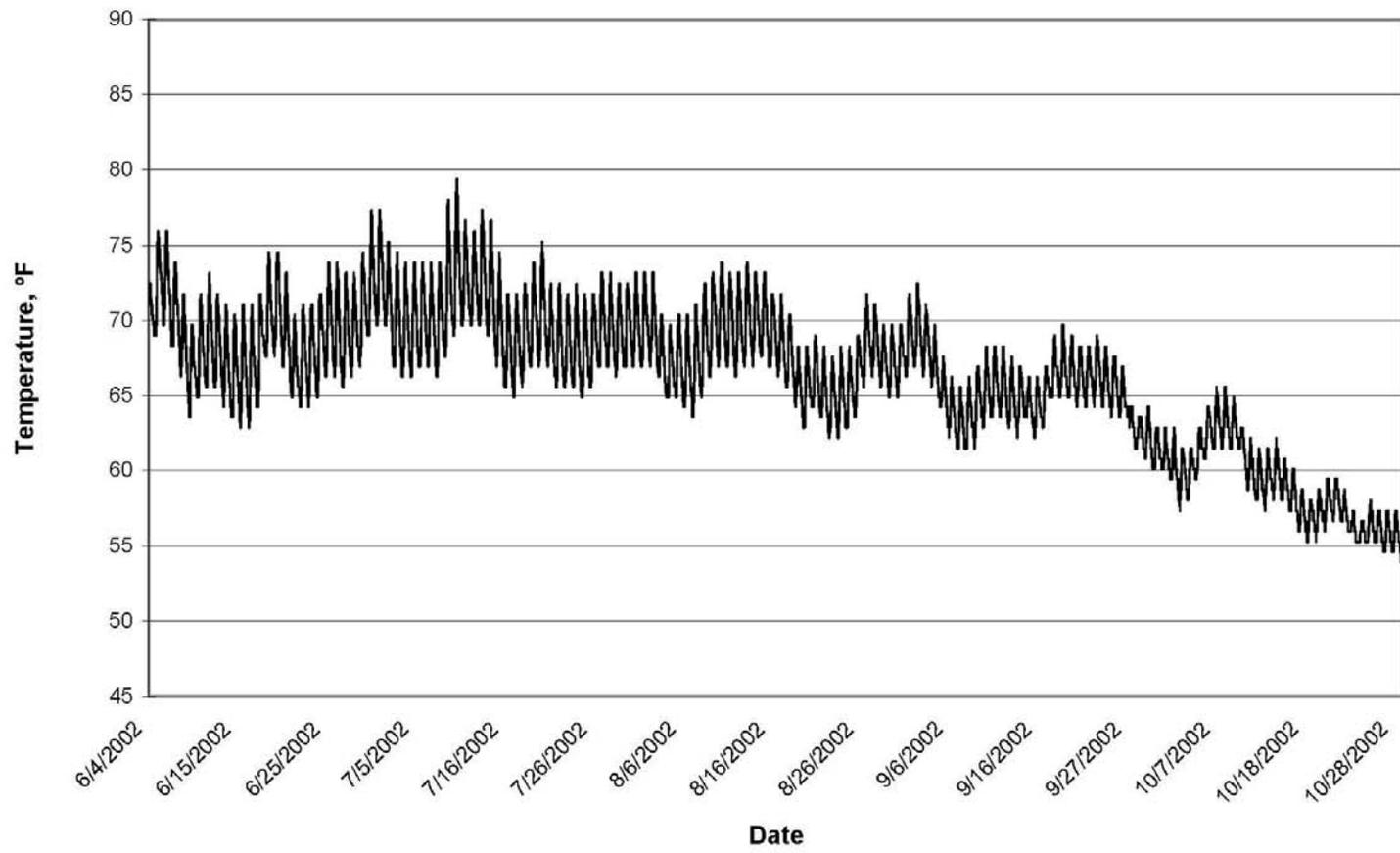
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Daily Range in Water Temperature



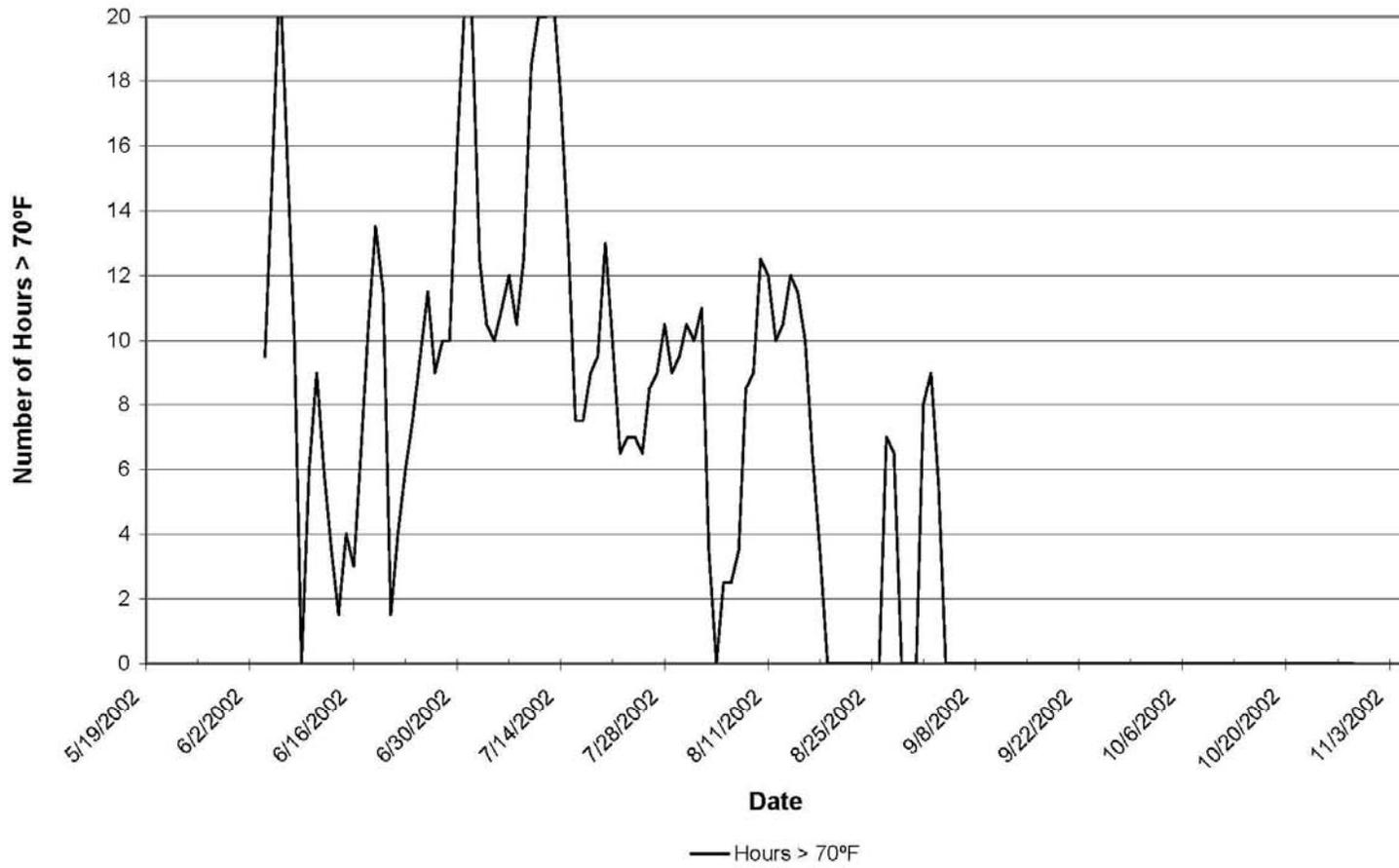
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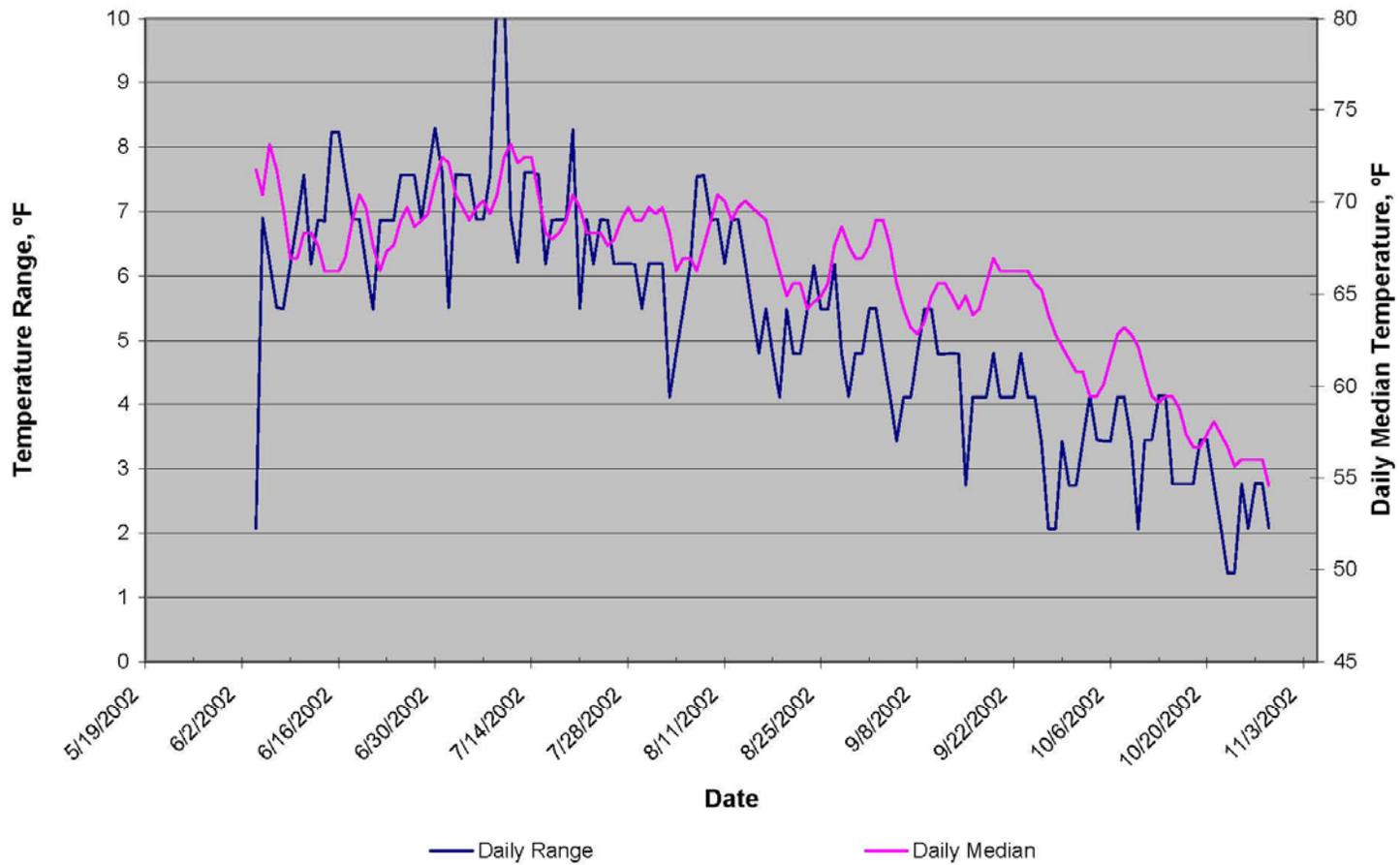
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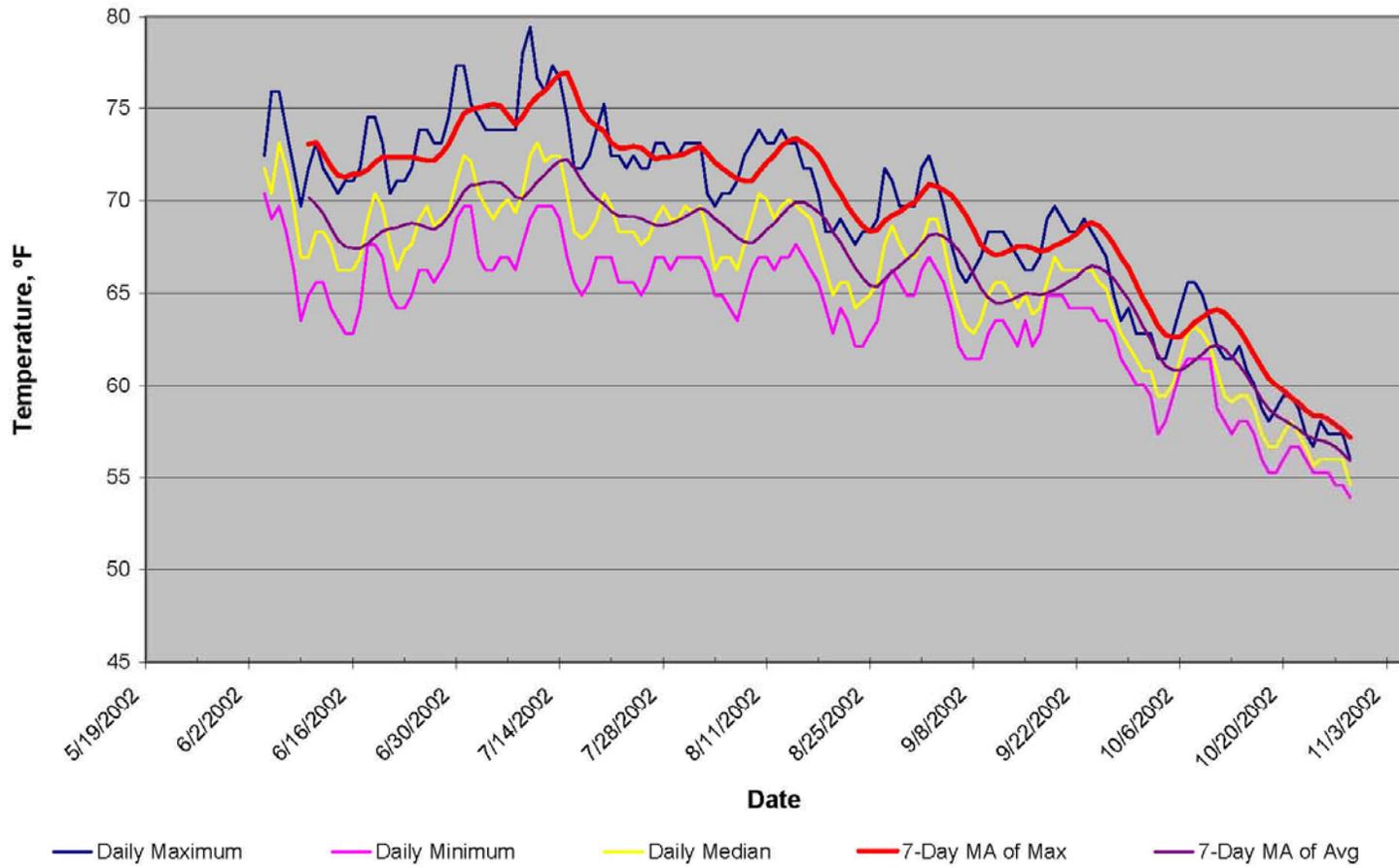
Suisun Creek 5 - 2002
Daily Water Temperature Hours Greater than 70°F



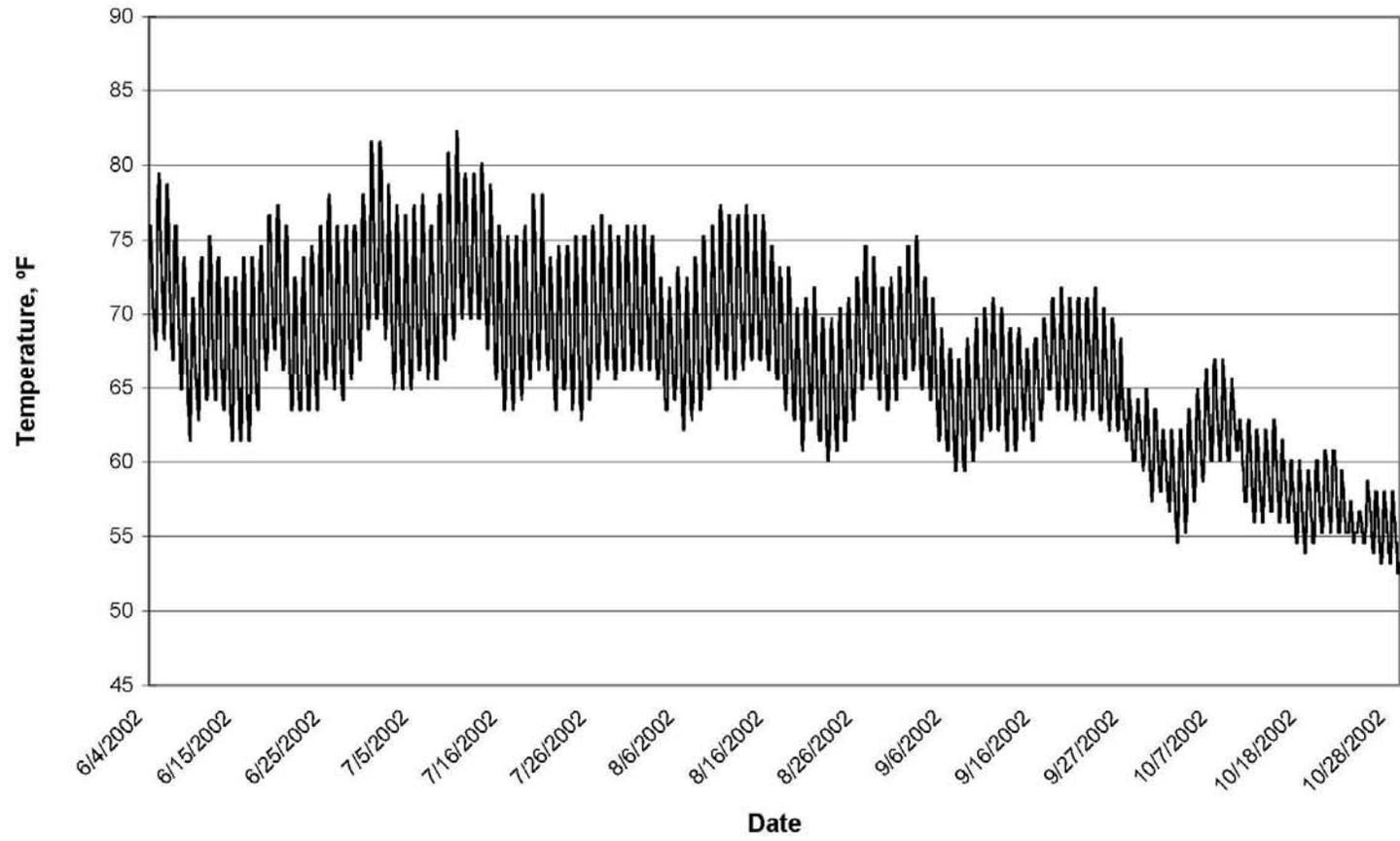
Suisun Creek 5 - 2002 Daily Range in Water Temperature



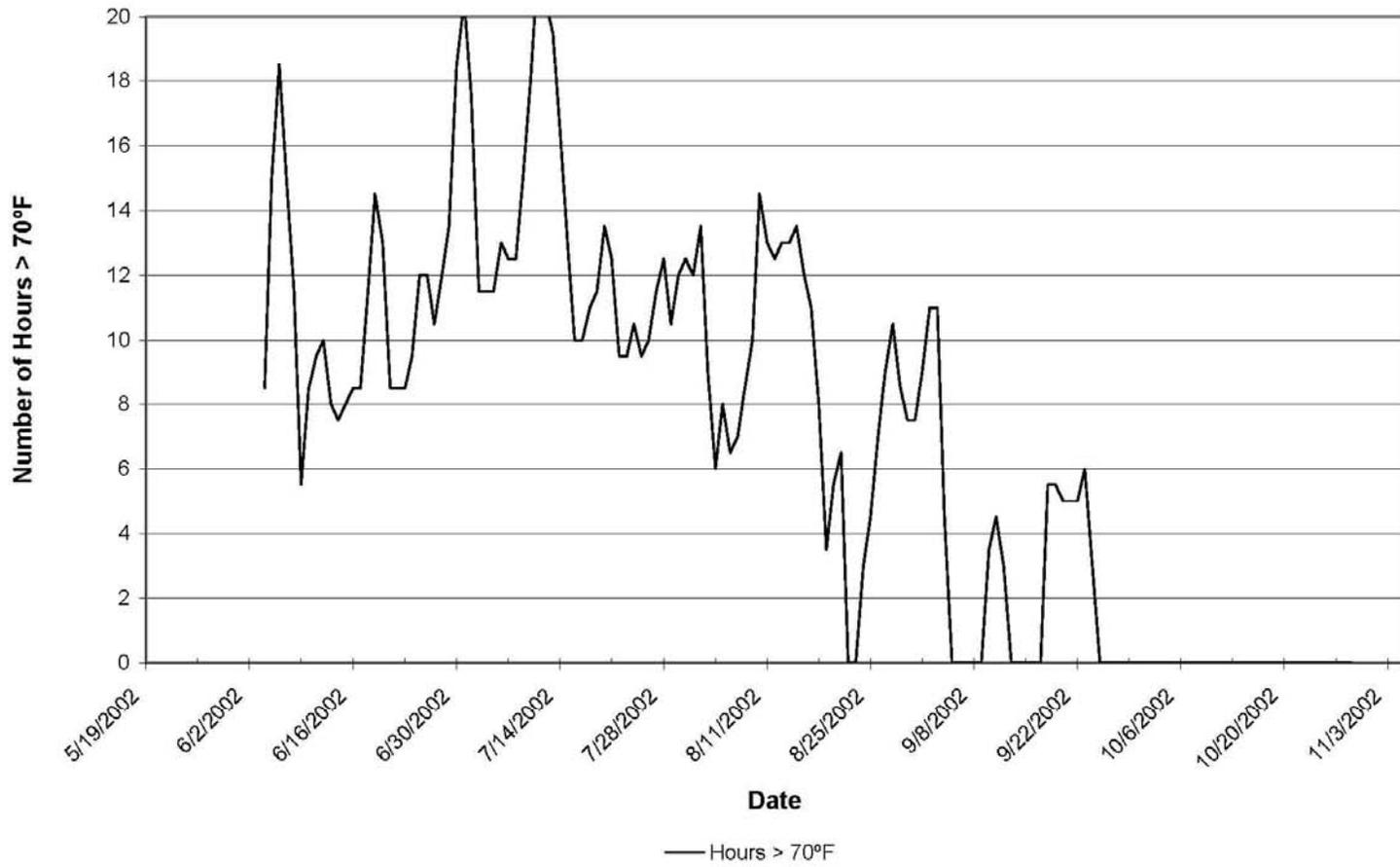
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Daily Water Temperature Summary



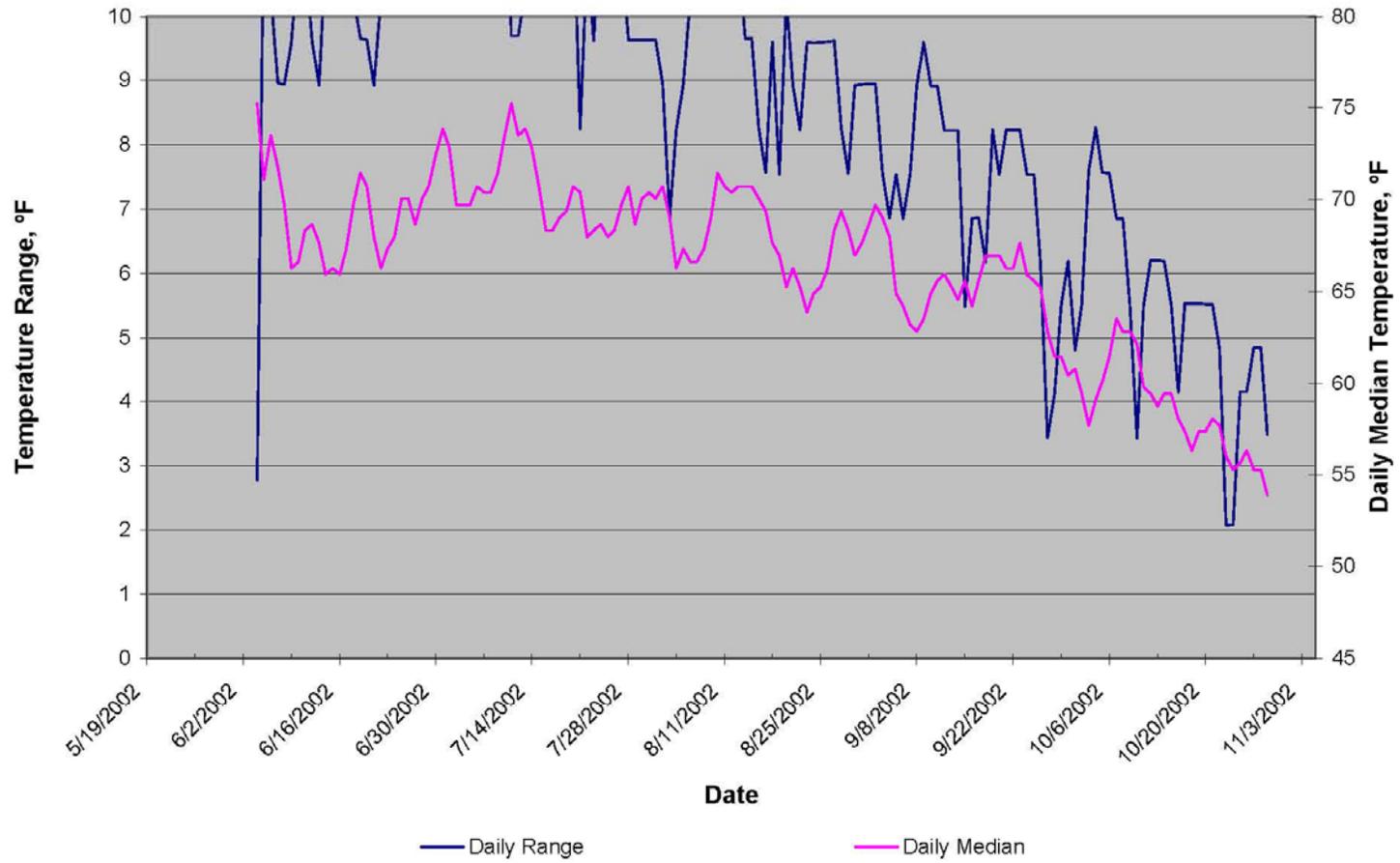
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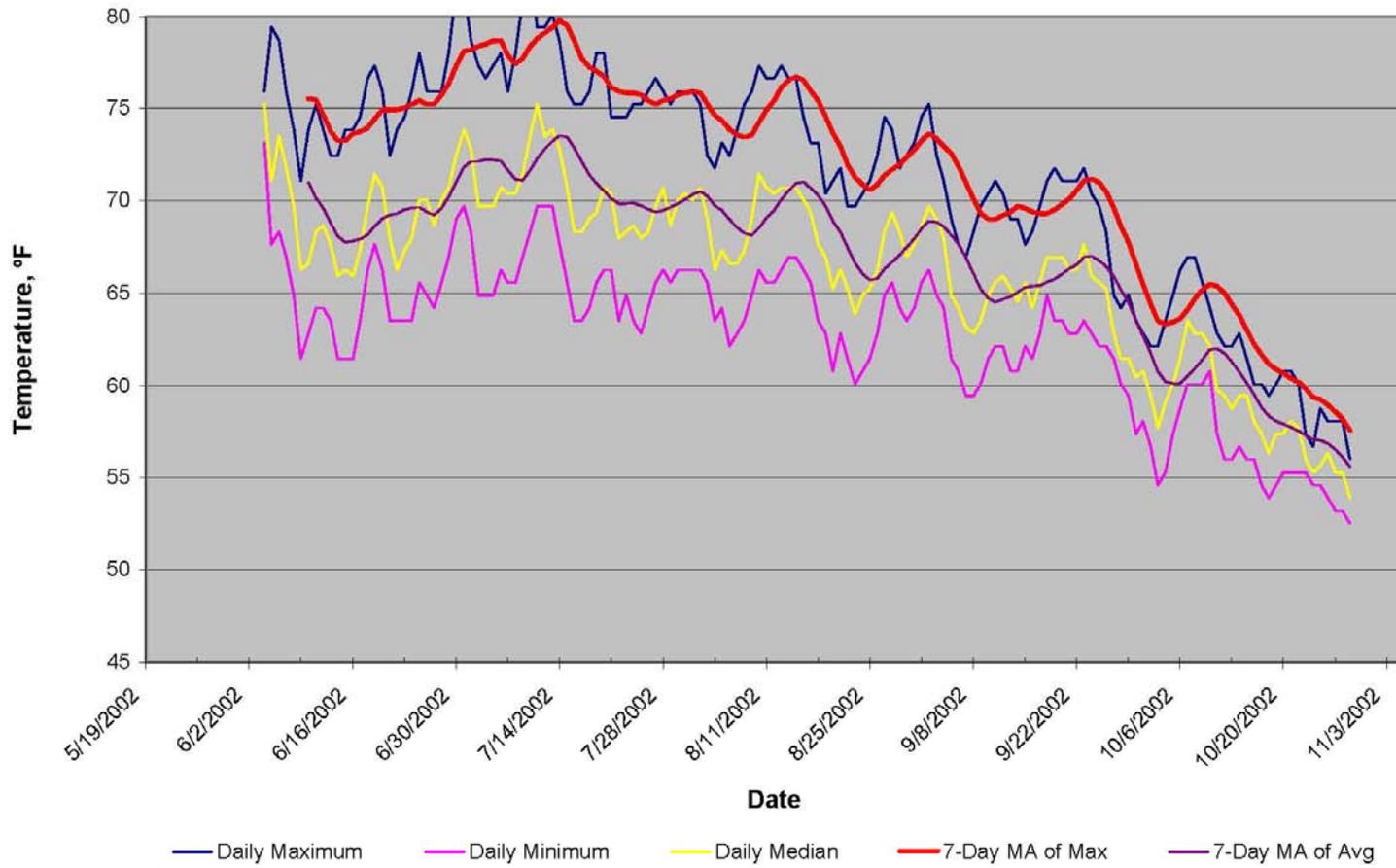
Suisun Creek 6 - 2002
Daily Water Temperature Hours Greater than 70°F



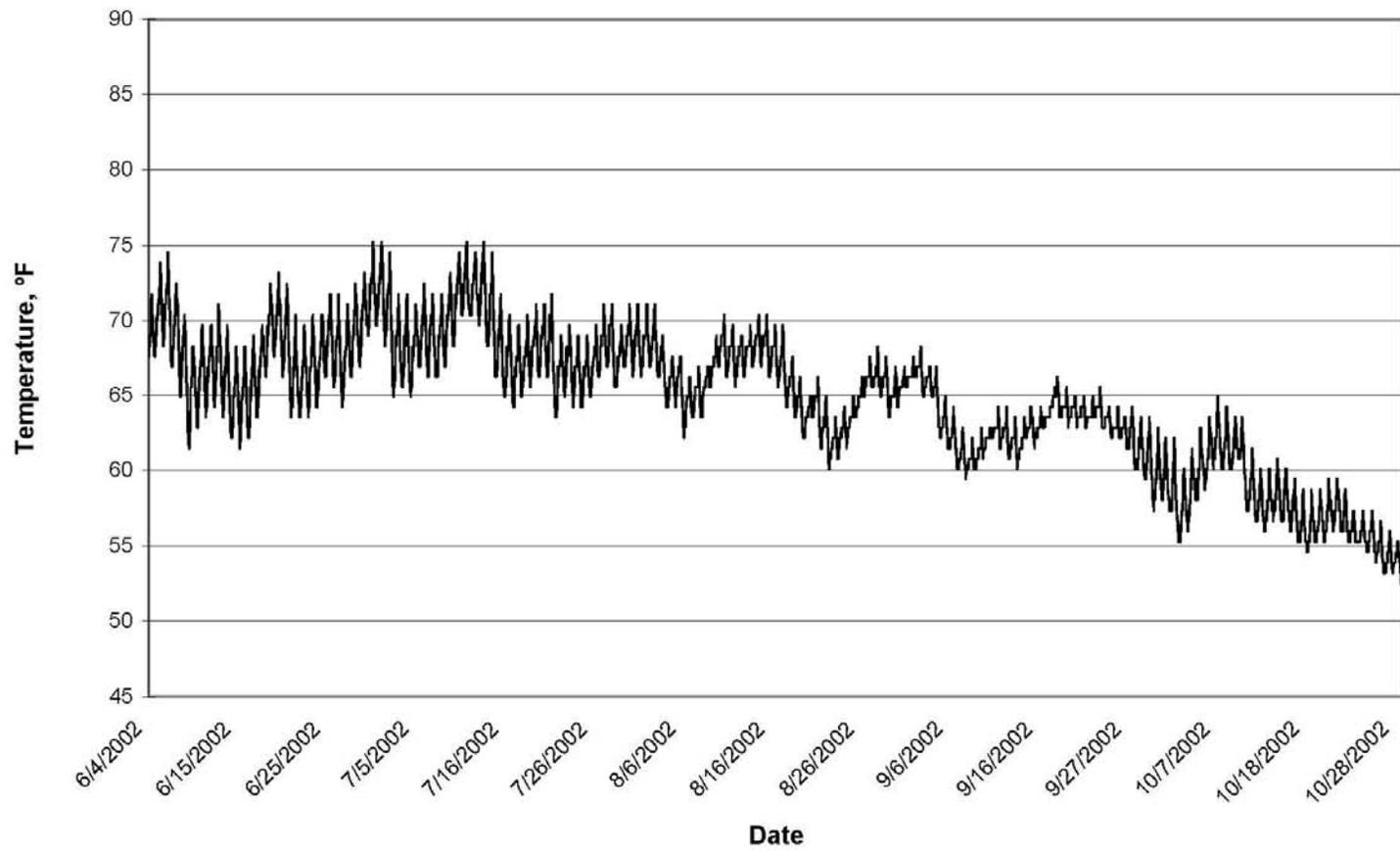
Suisun Creek 6 - 2002 Daily Range in Water Temperature



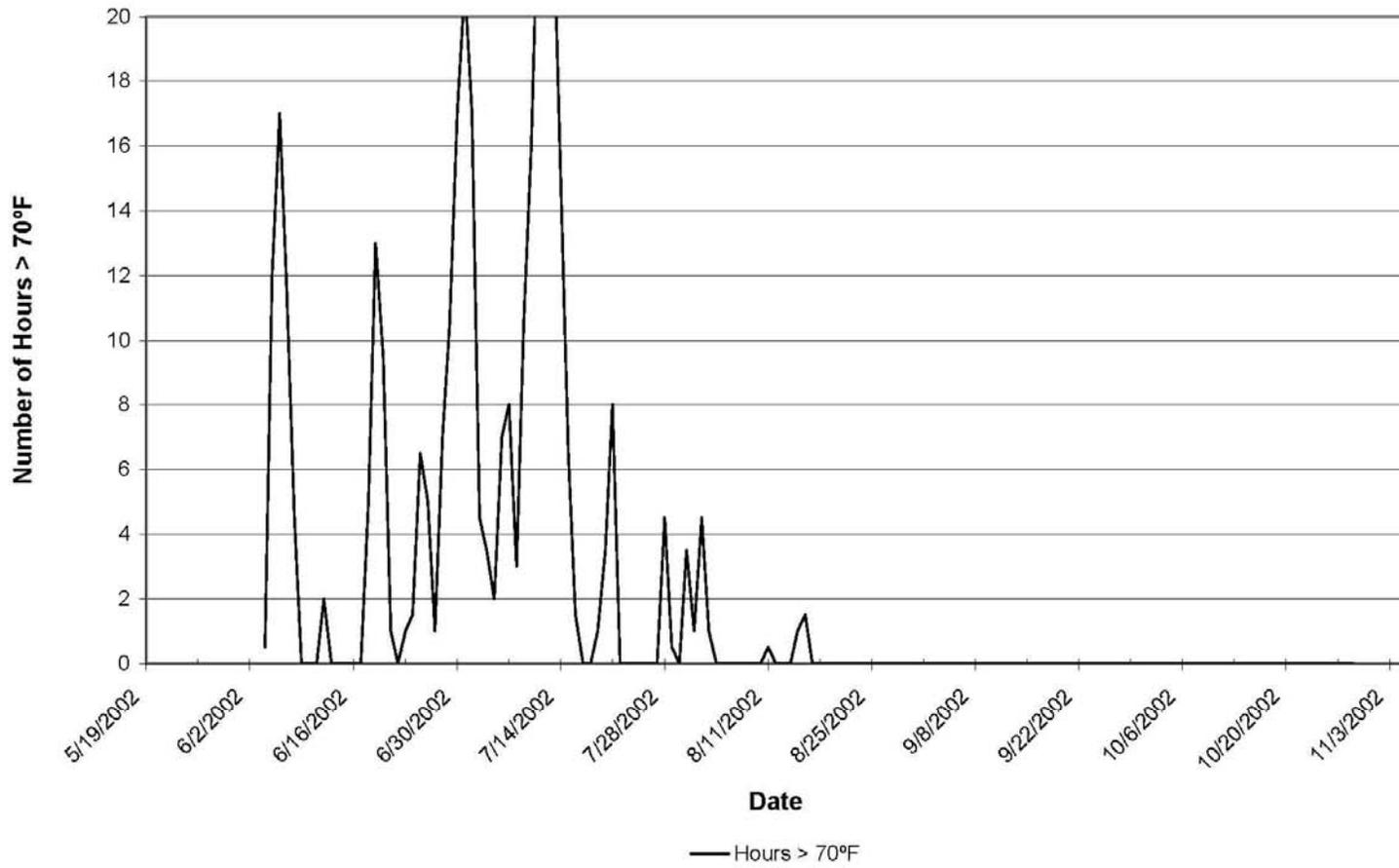
Suisun Creek 6 - 2002
Daily Water Temperature Summary



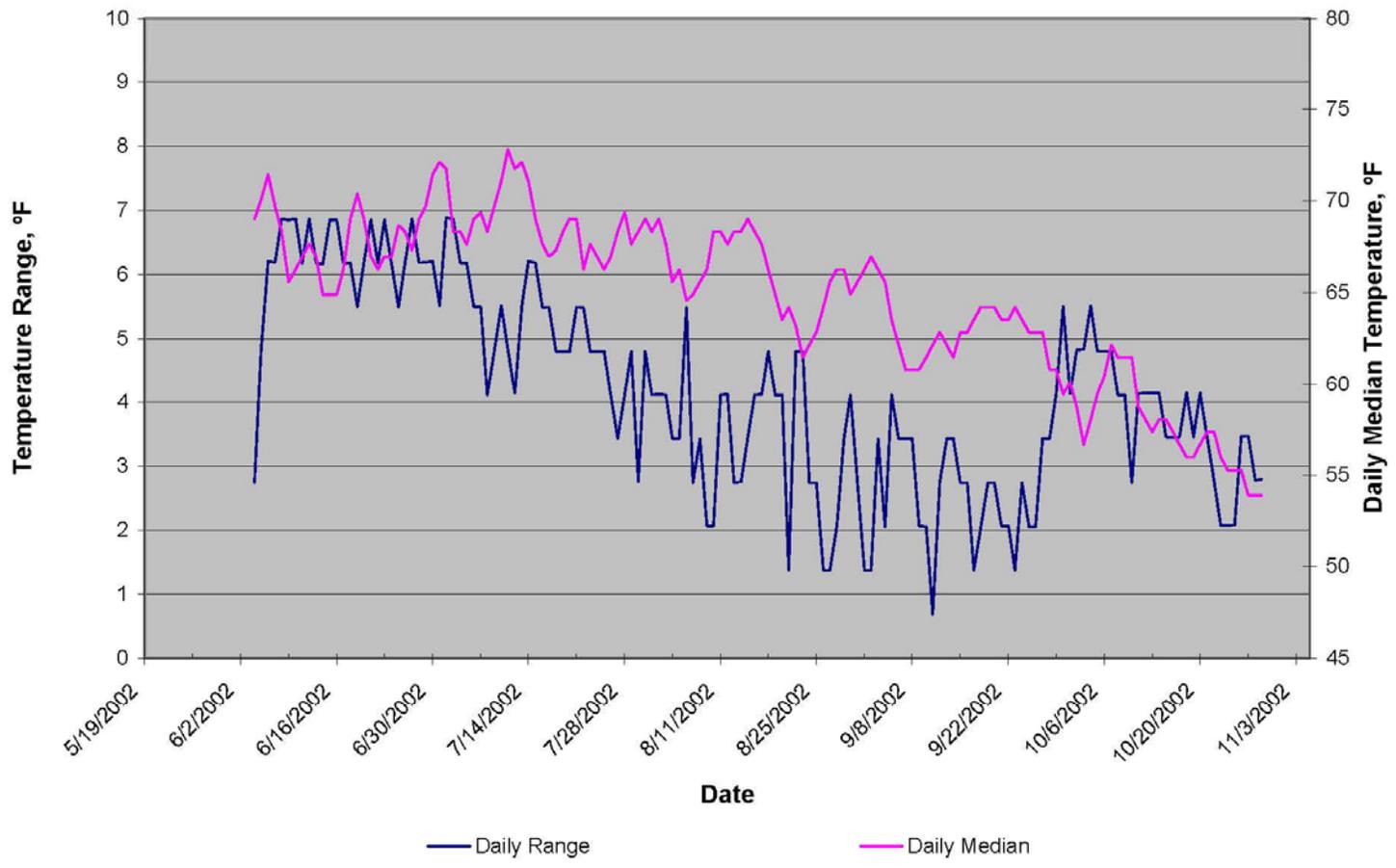
Suisun Creek 7: June-October 2002



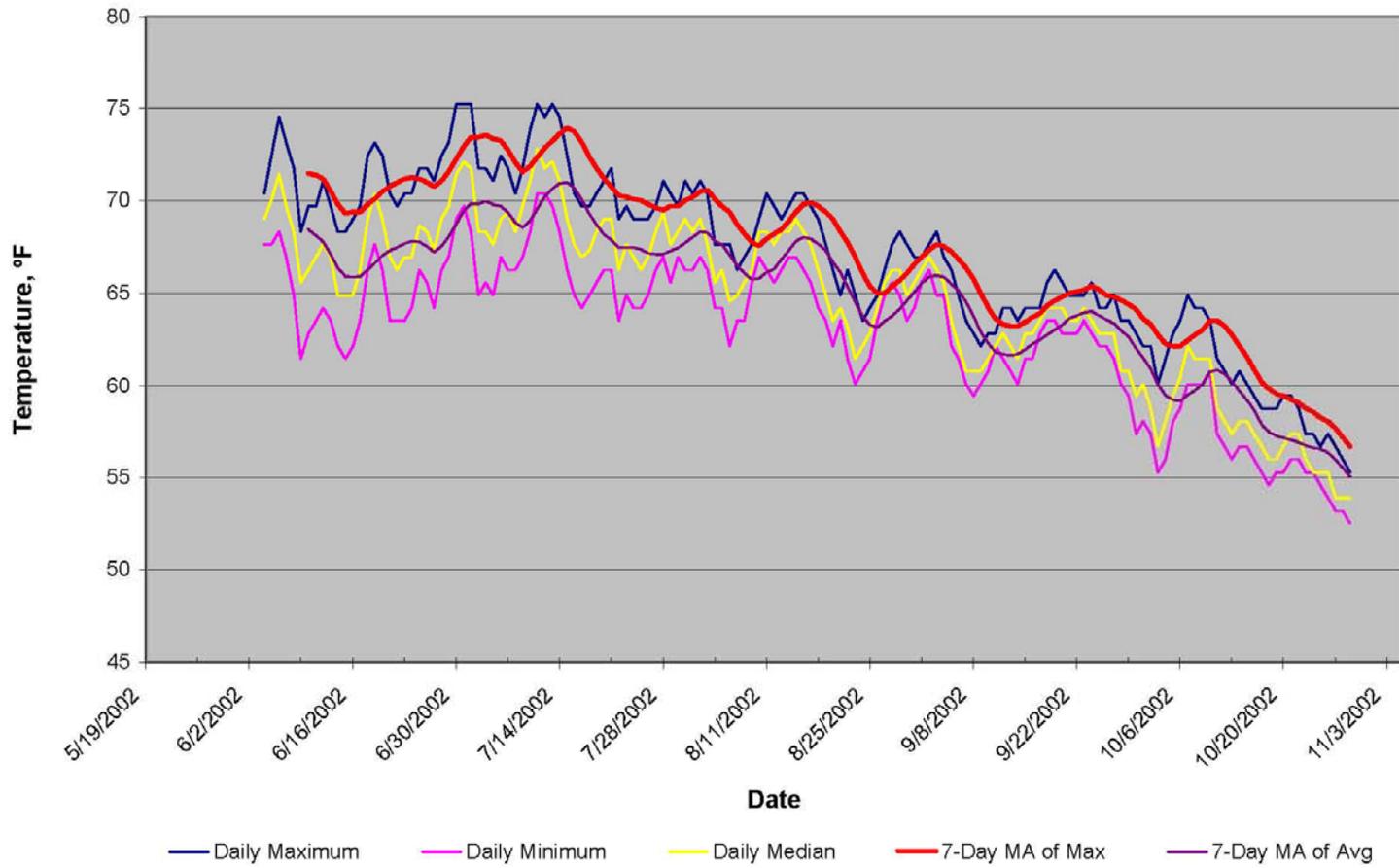
Suisun Creek 7 - 2002
Daily Water Temperature Hours Greater than 70°F



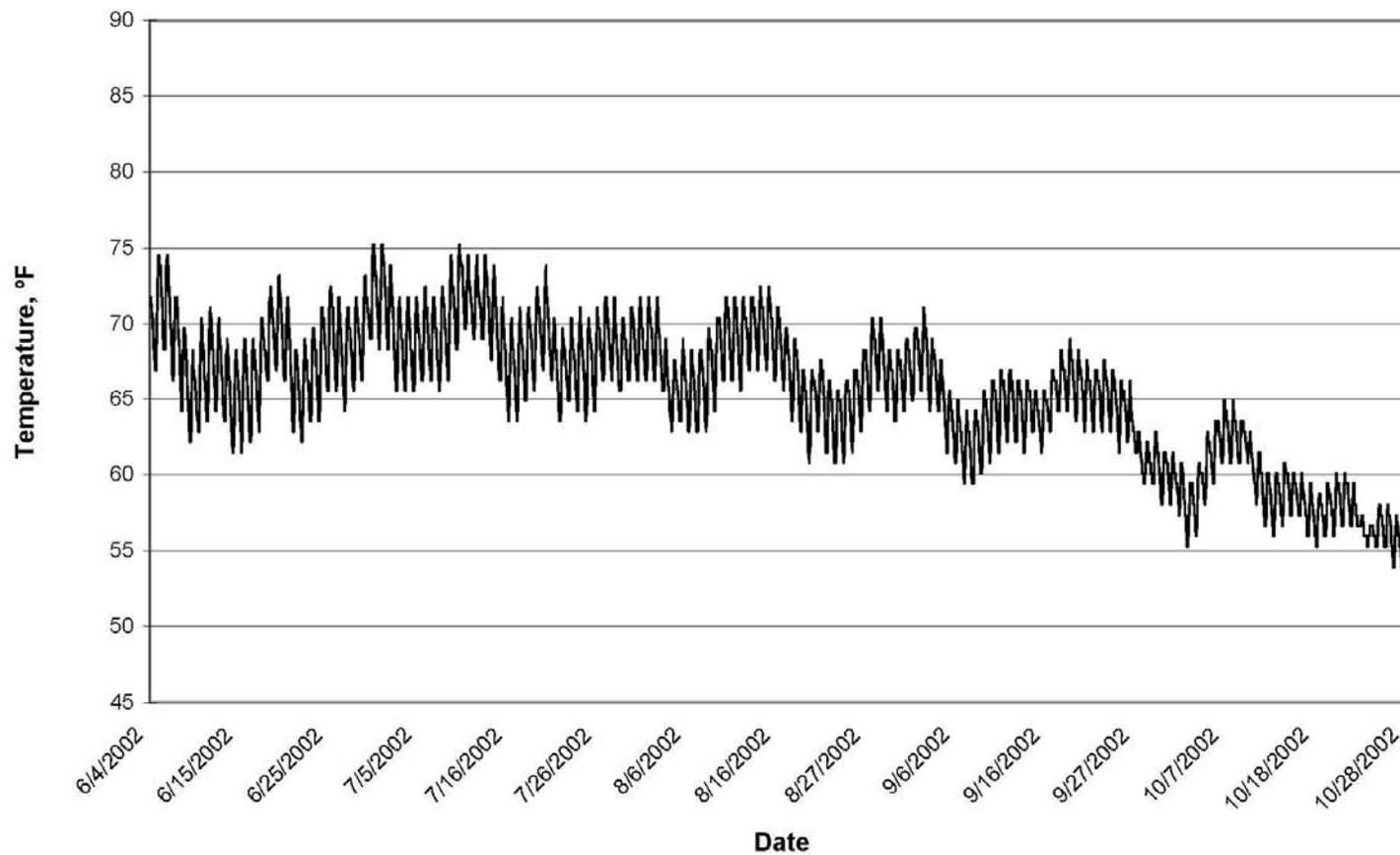
Suisun Creek 7 - 2002 Daily Range in Water Temperature



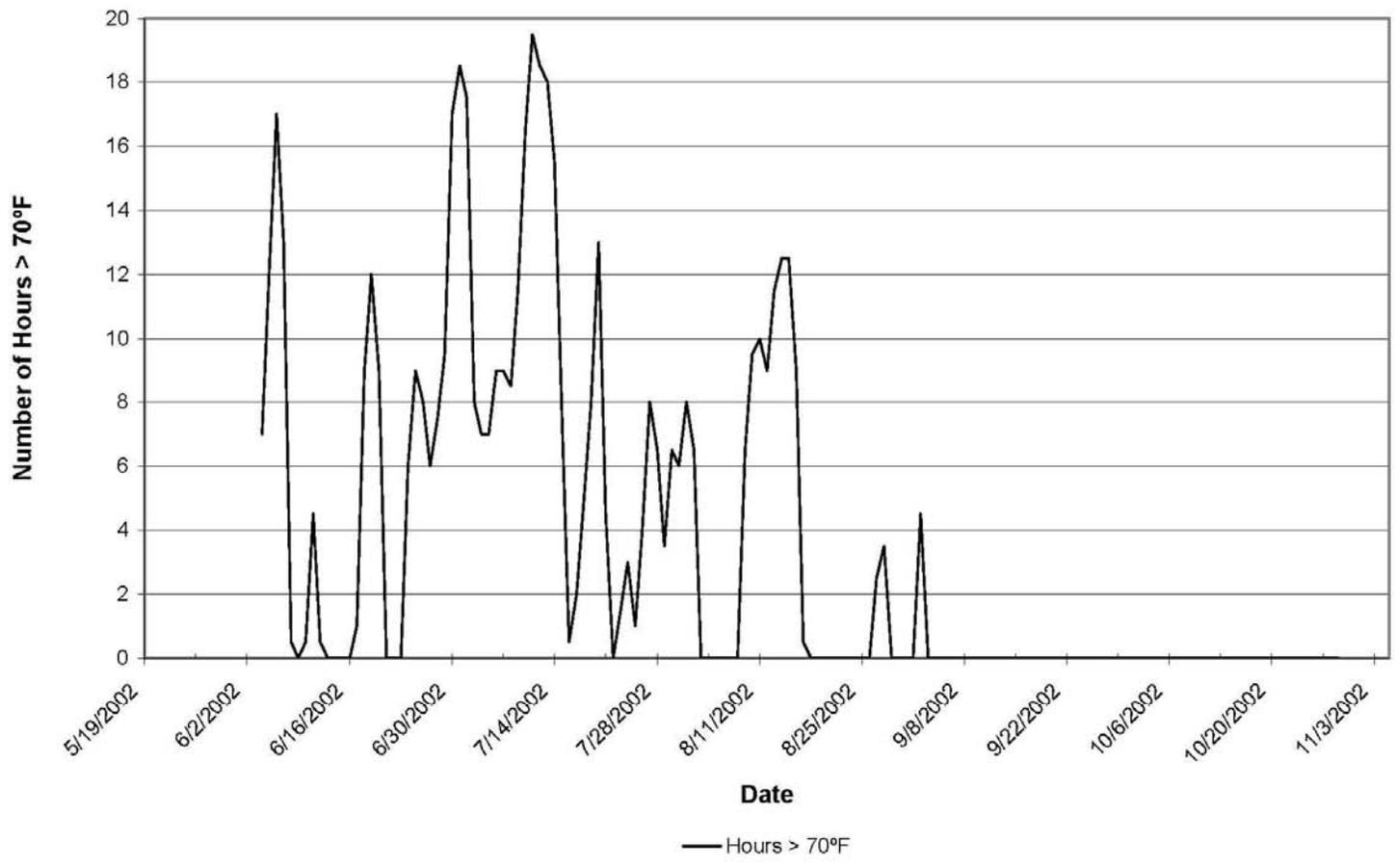
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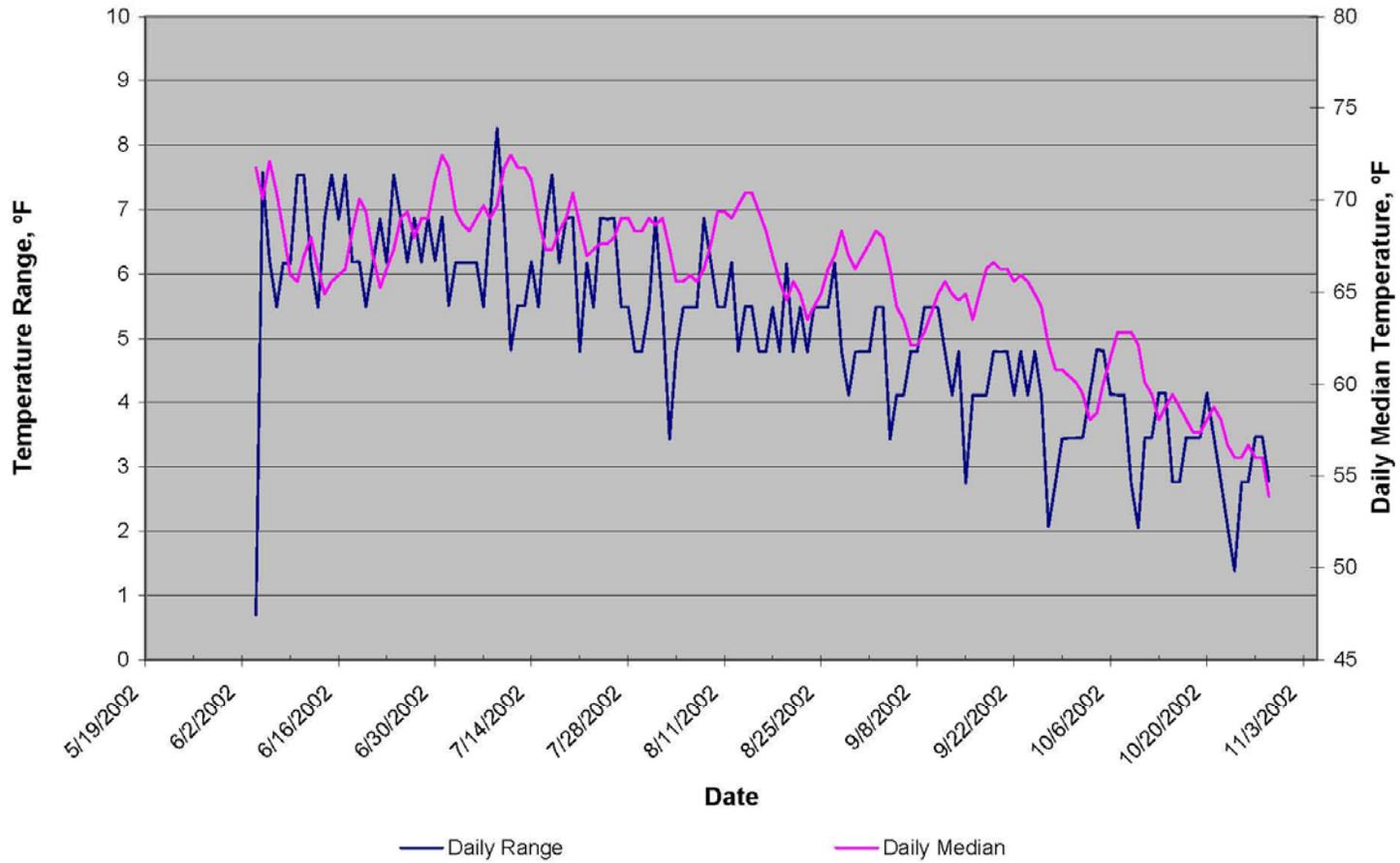
Suisun Creek 8: June - October 2002



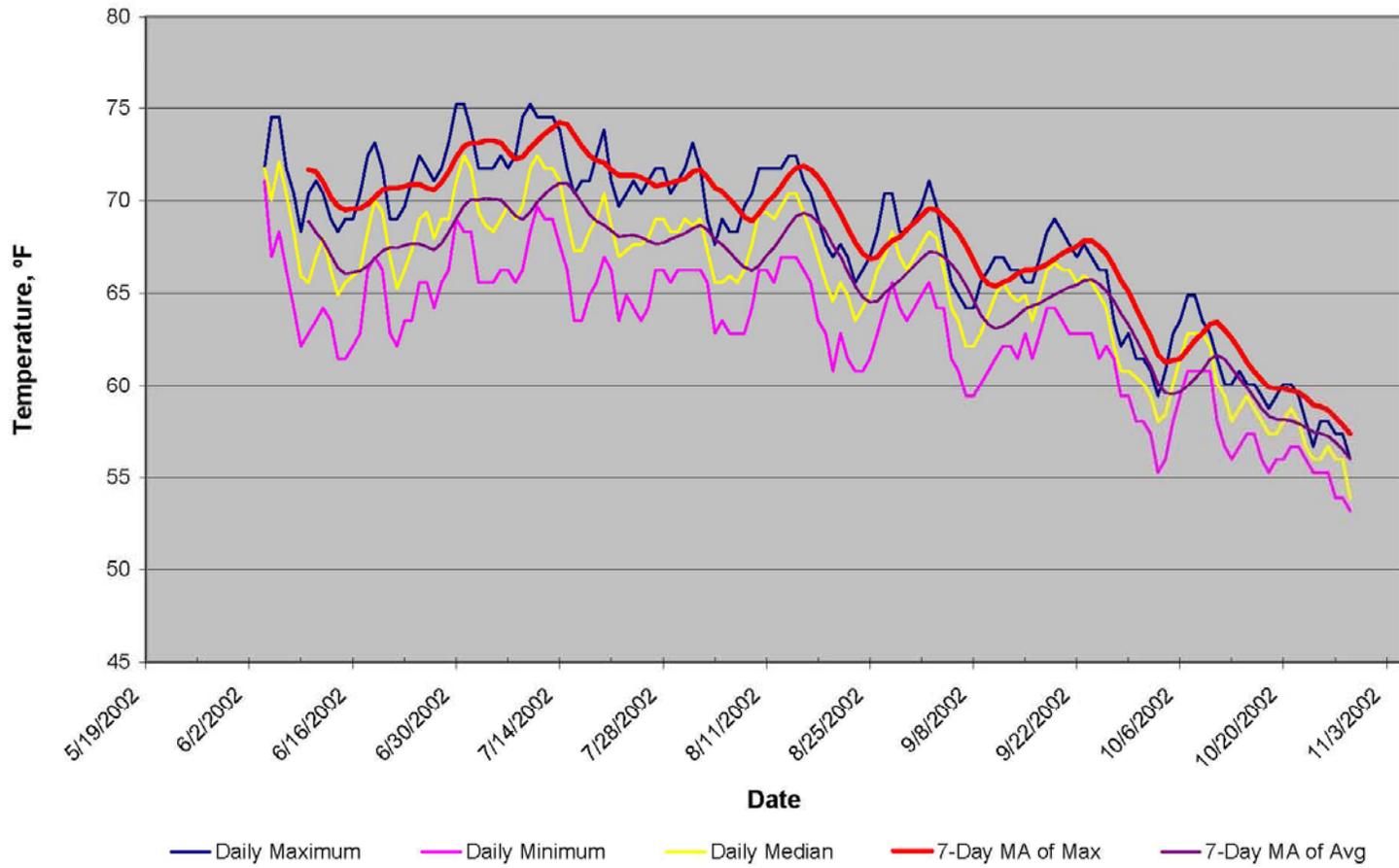
Suisun Creek 8 - 2002
Daily Water Temperature Hours Greater than 70°F



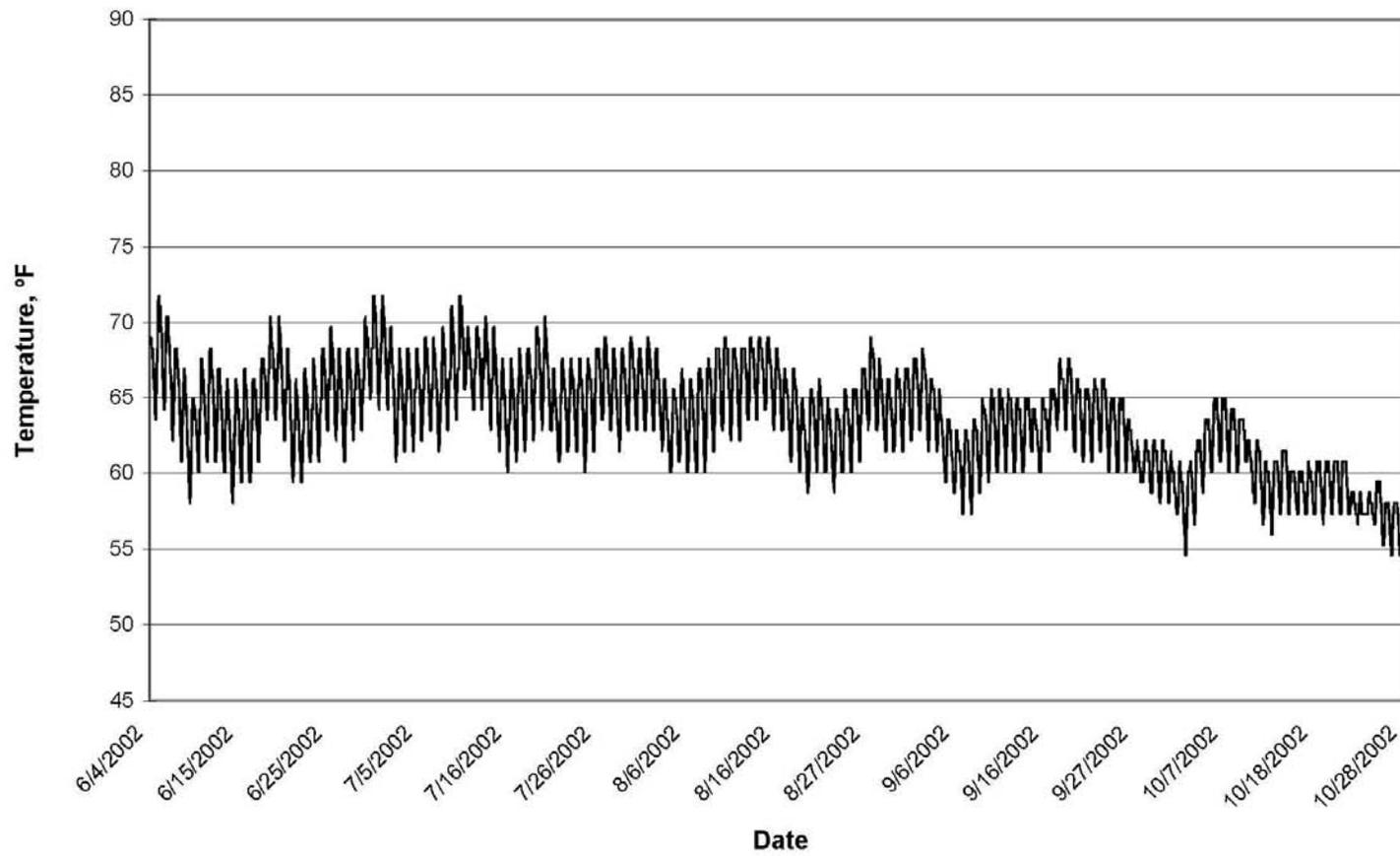
Suisun Creek 8 - 2002
Daily Range in Water Temperature



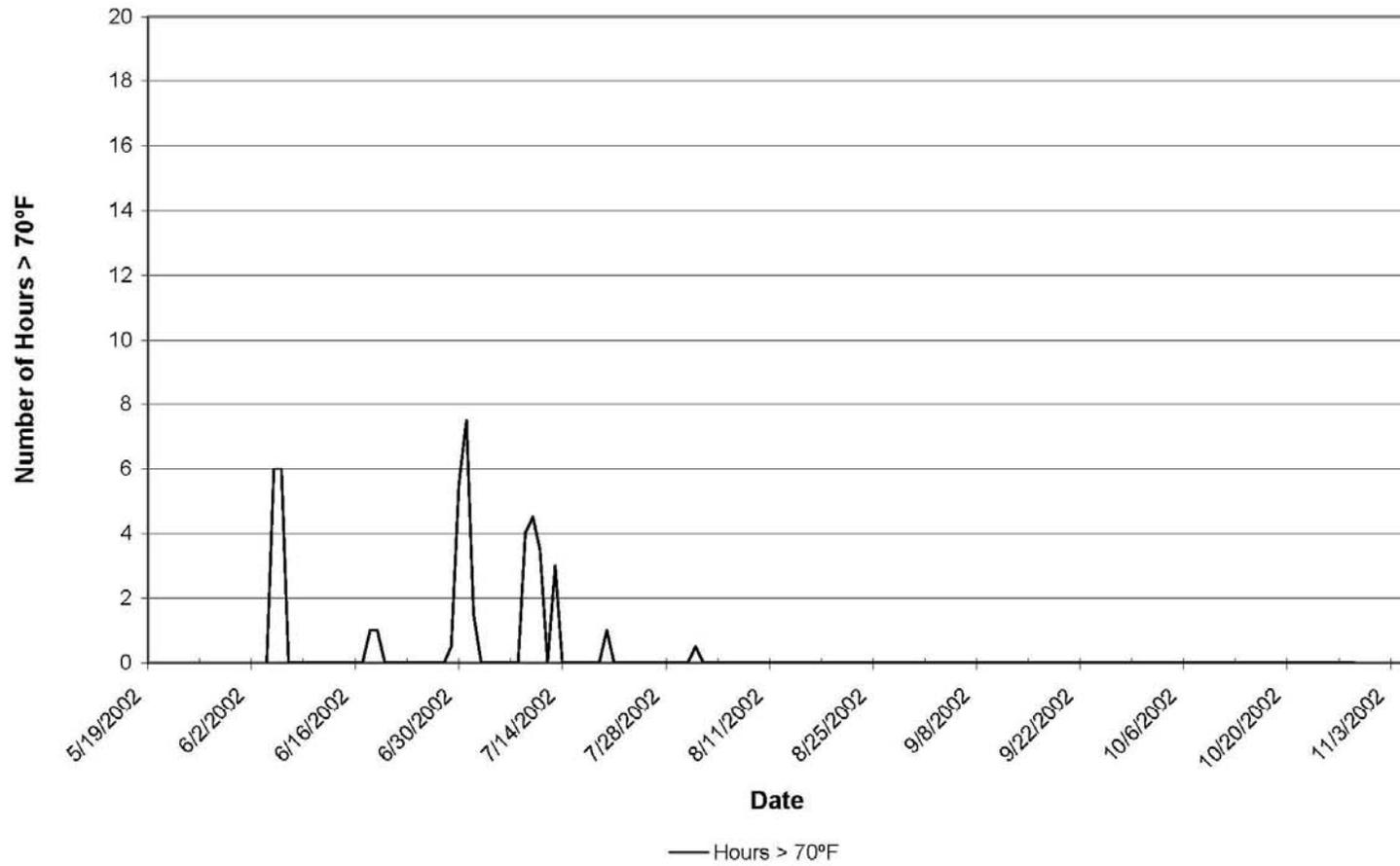
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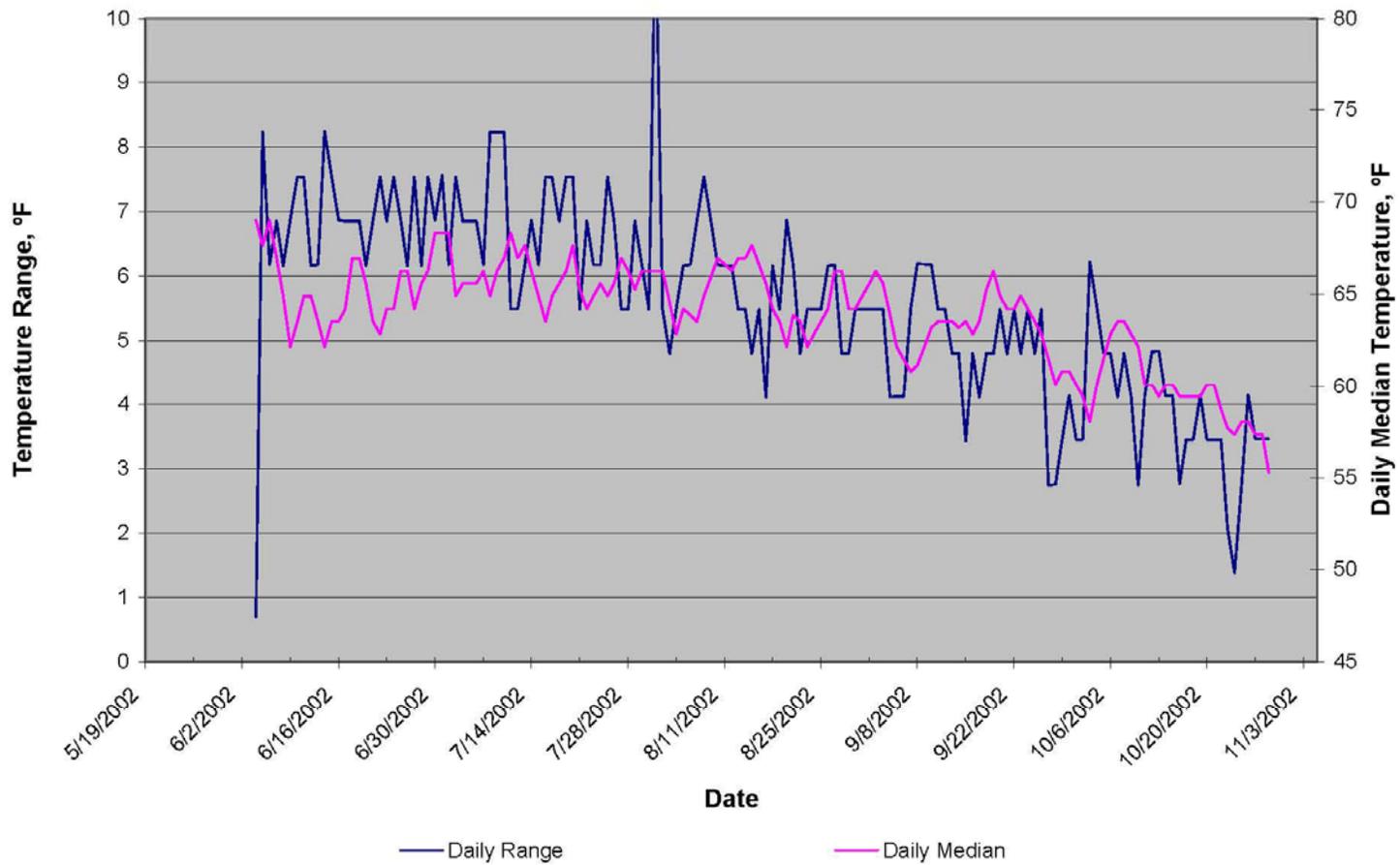
Suisun Creek 9: June-October 2002



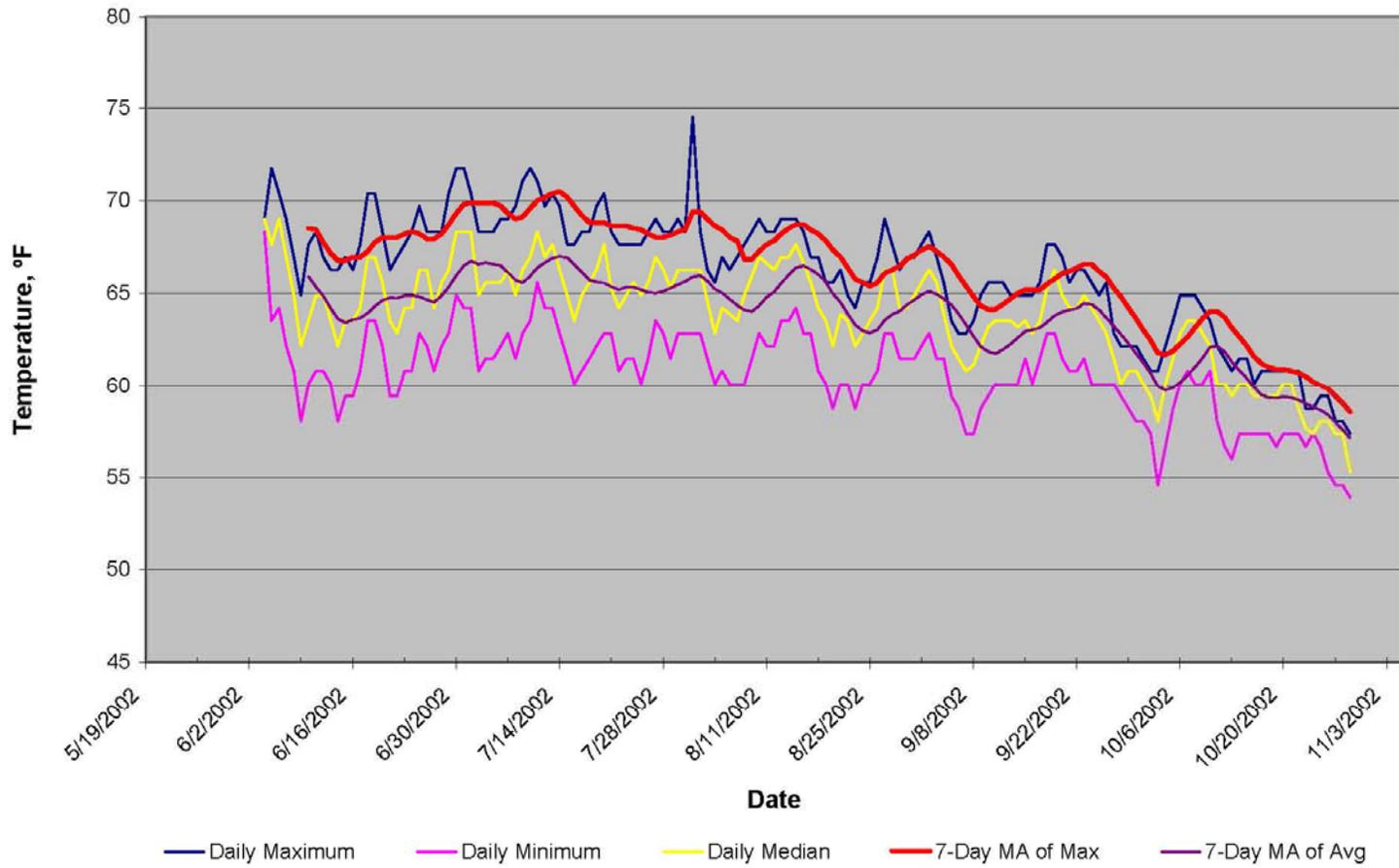
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Daily Water Temperature Hours Greater than 70 °F



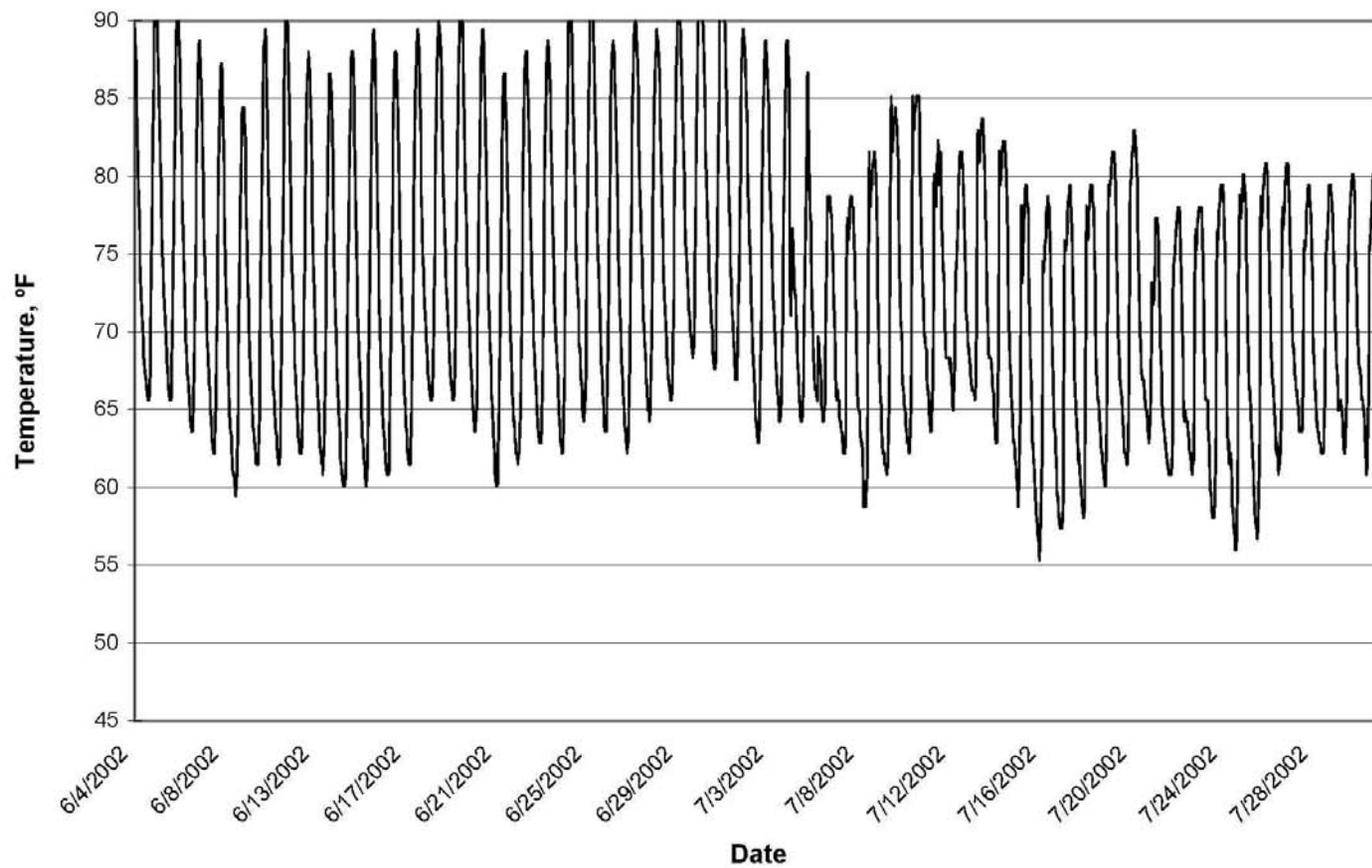
Suisun Creek 9 - 2002
Daily Range in Water Temperature



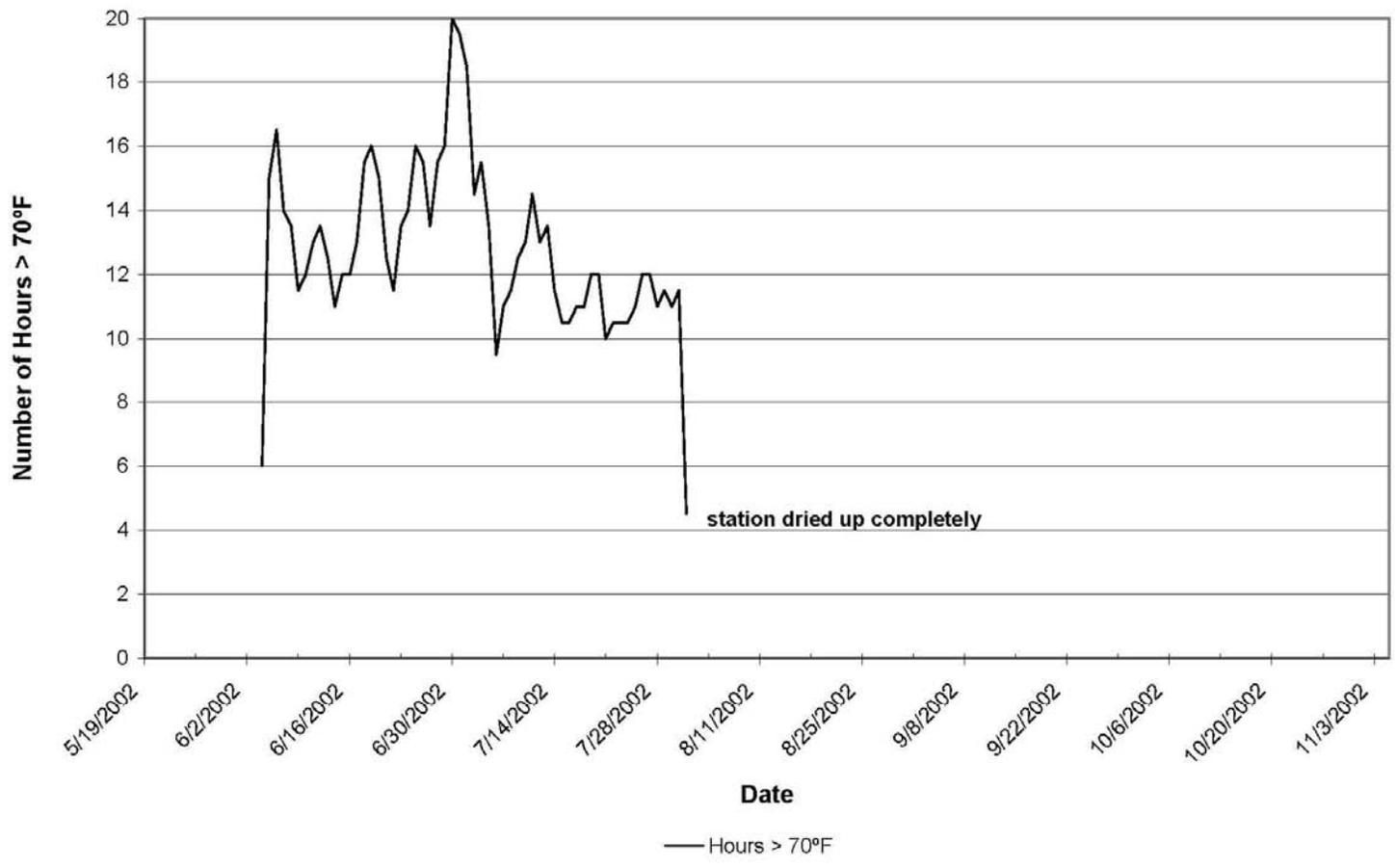
Suisun Creek 9 - 2002 Daily Water Temperature Summary



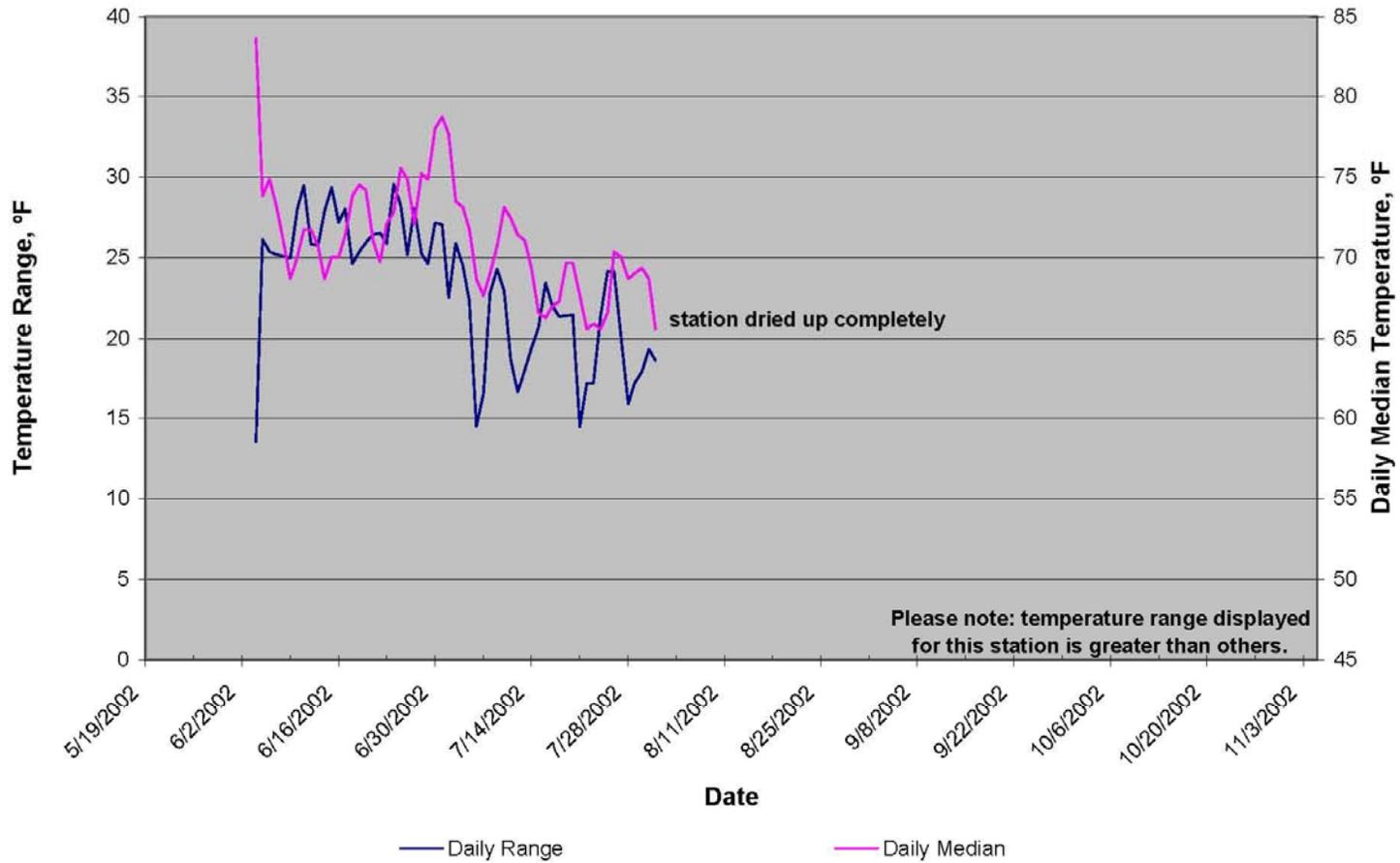
Wooden Valley Creek 1: June - July 2002



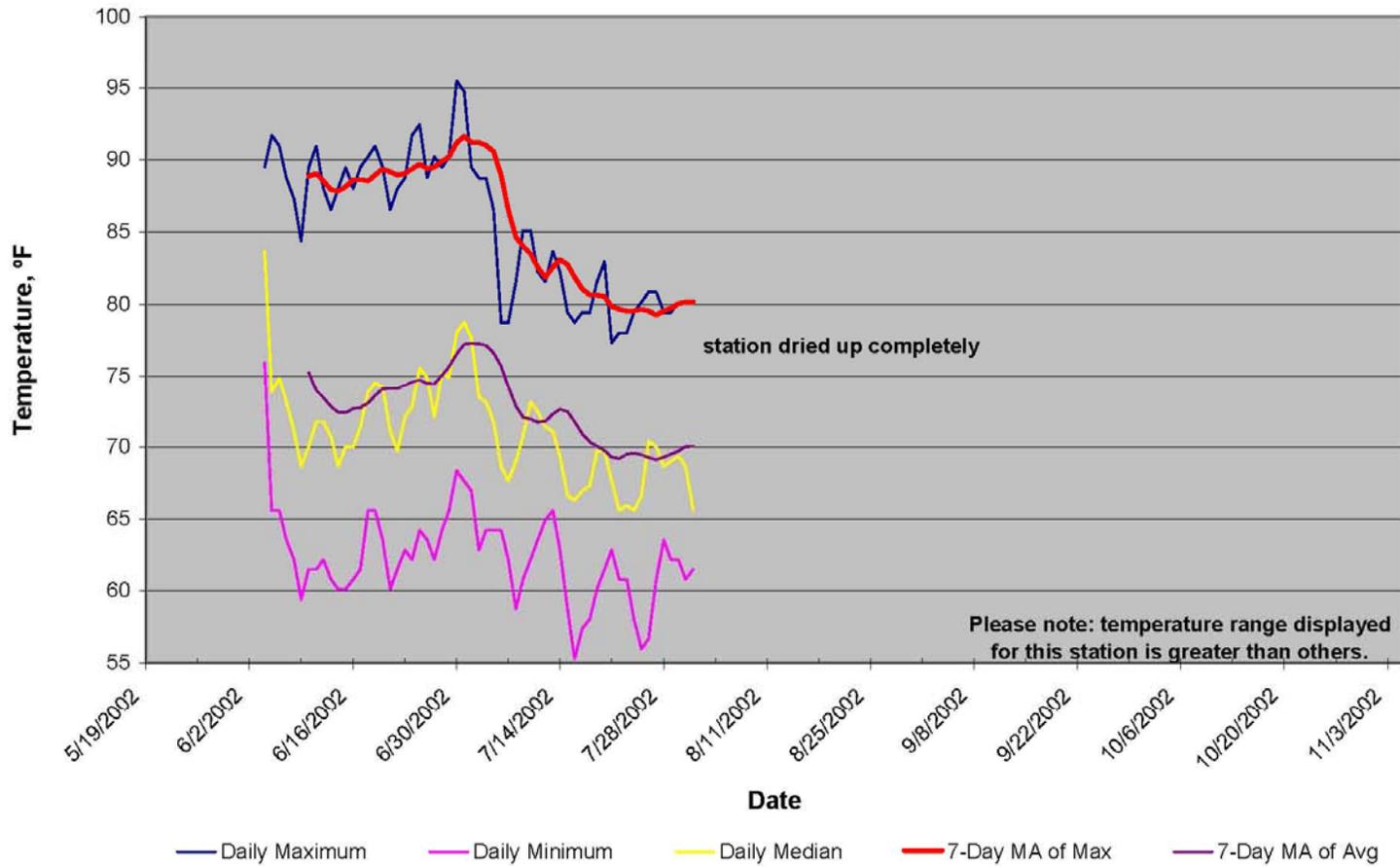
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Daily Water Temperature Hours Greater than 70°F



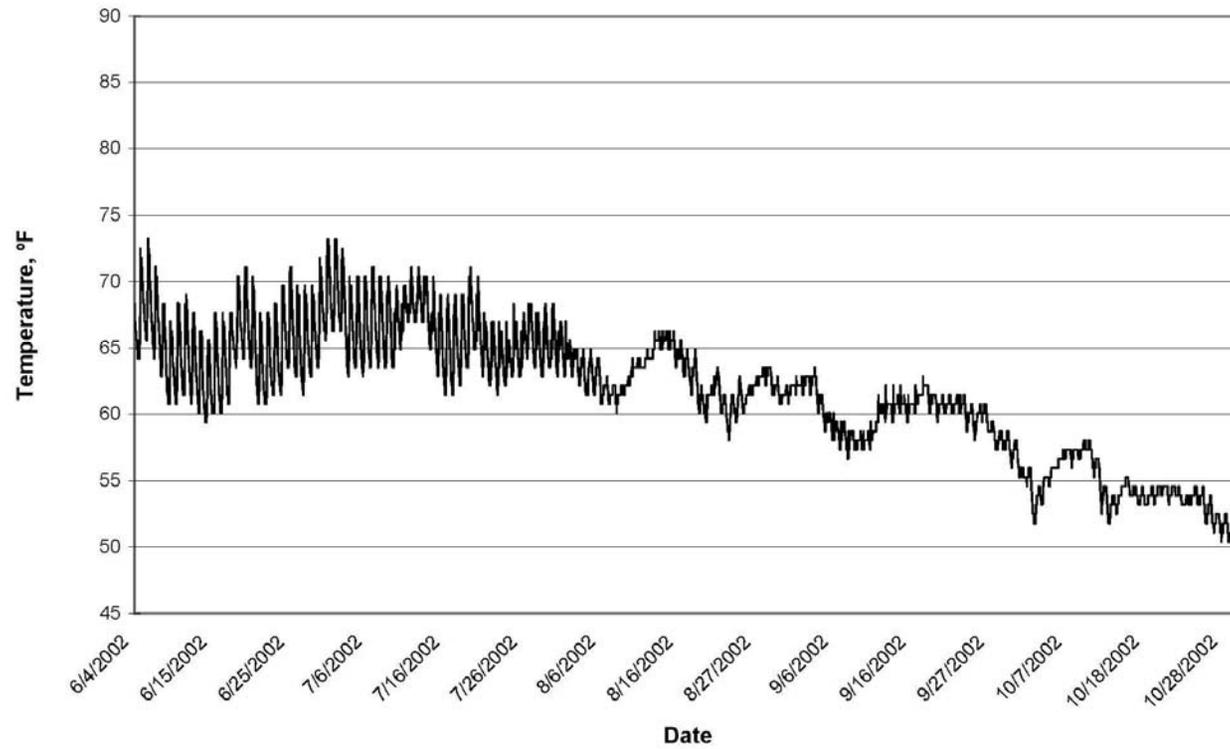
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Daily Range in Water Temperature



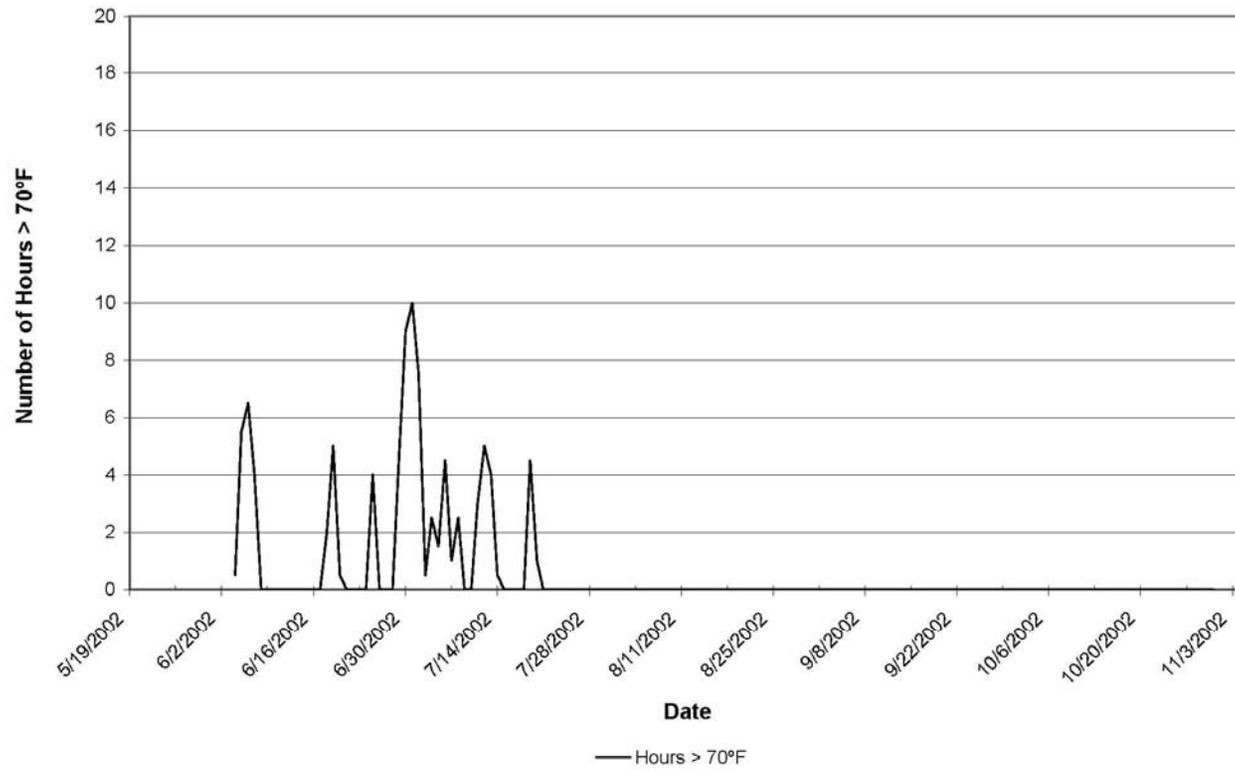
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Daily Water Temperature Summary**



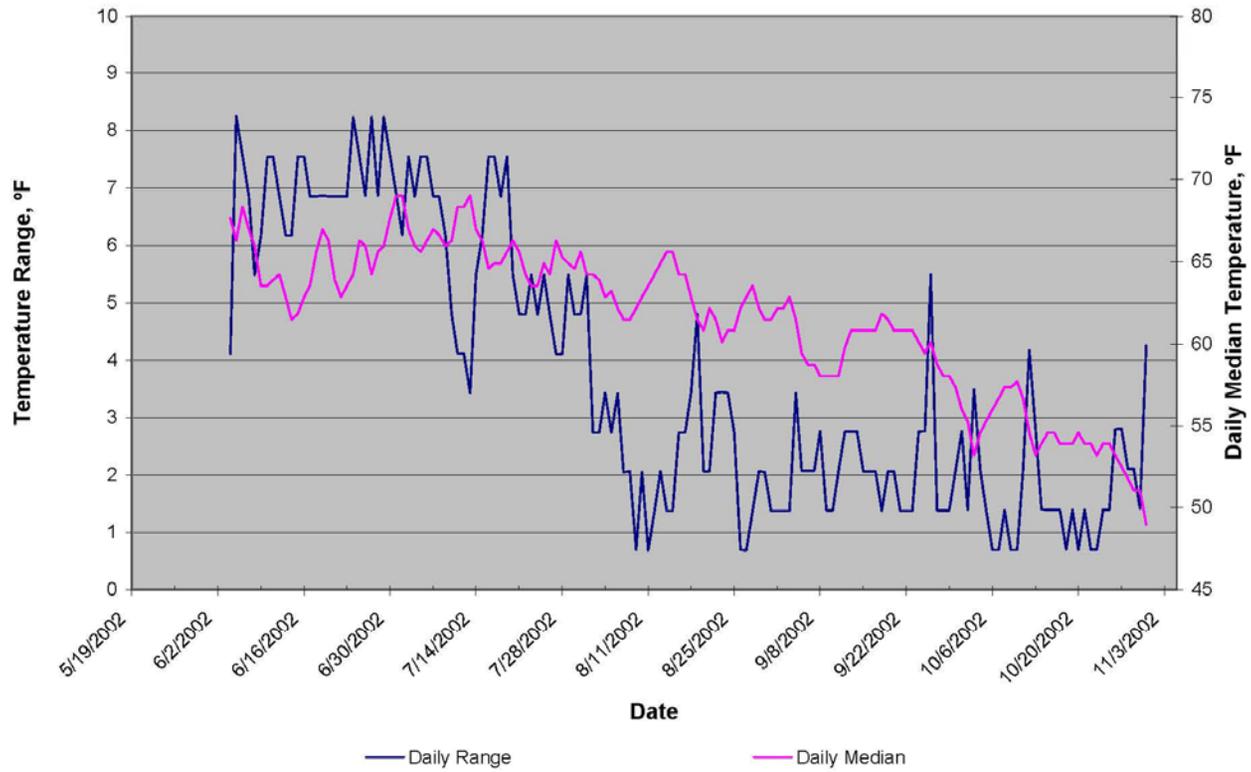
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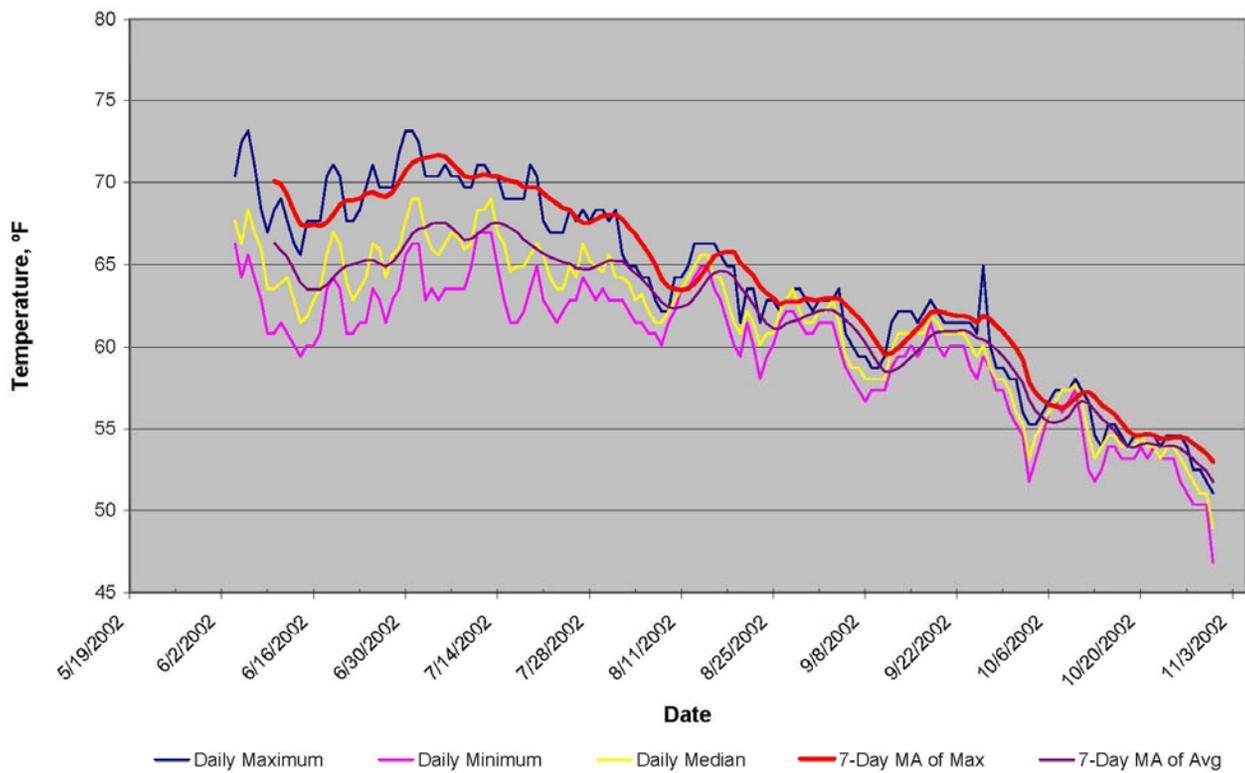
Wooden Valley Creek 2 - 2002
Daily Water Temperature Hours Greater than 70°F



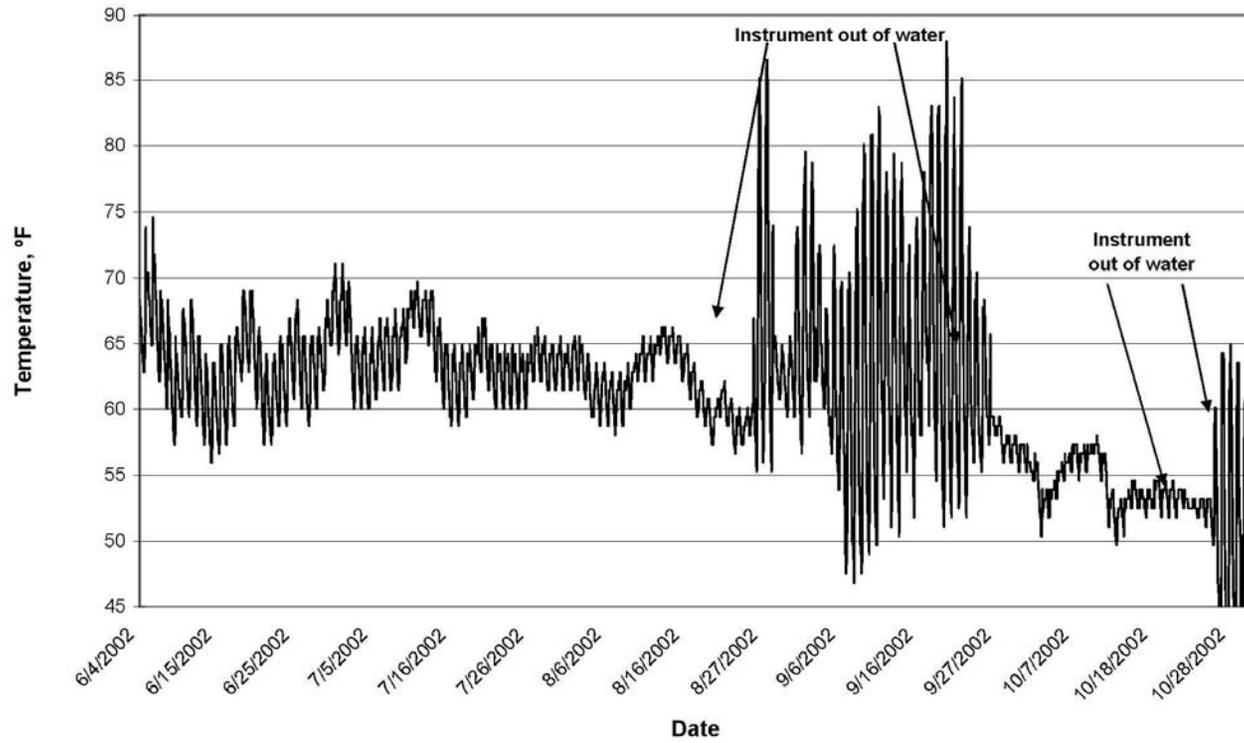
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Daily Range in Water Temperature



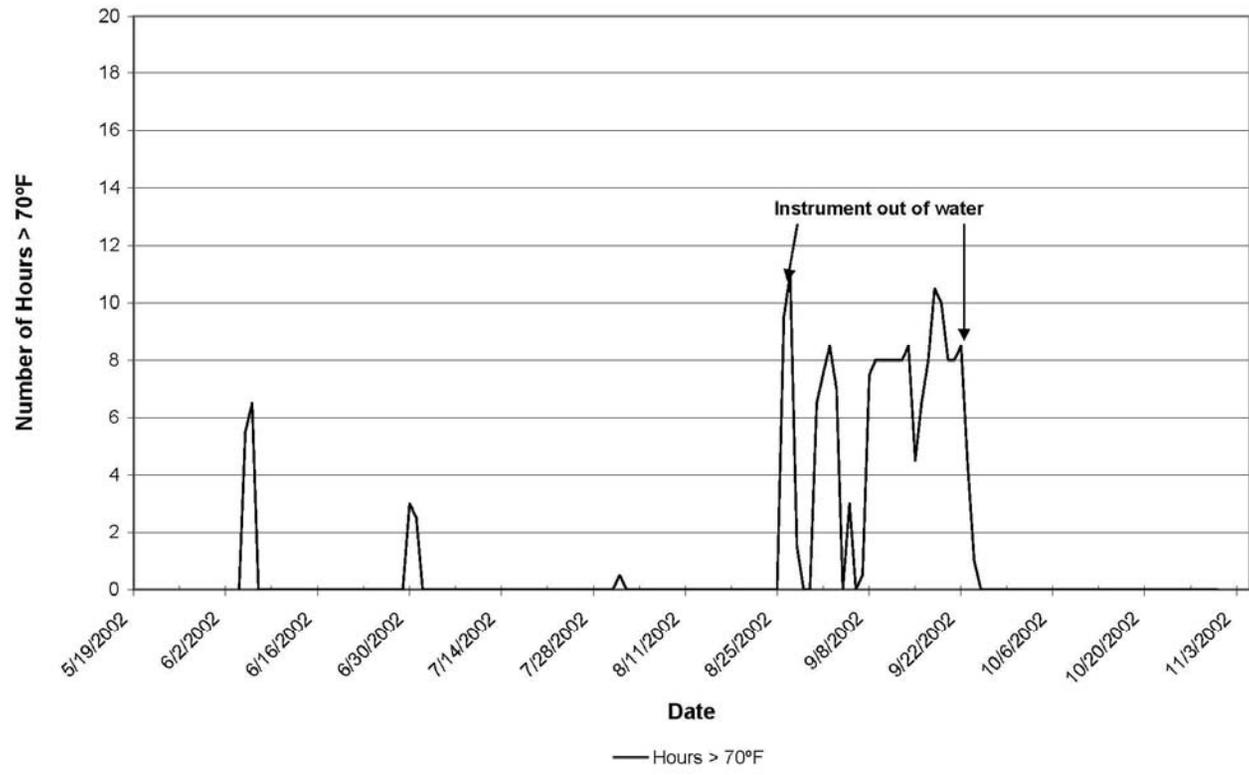
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Daily Water Temperature Summary**



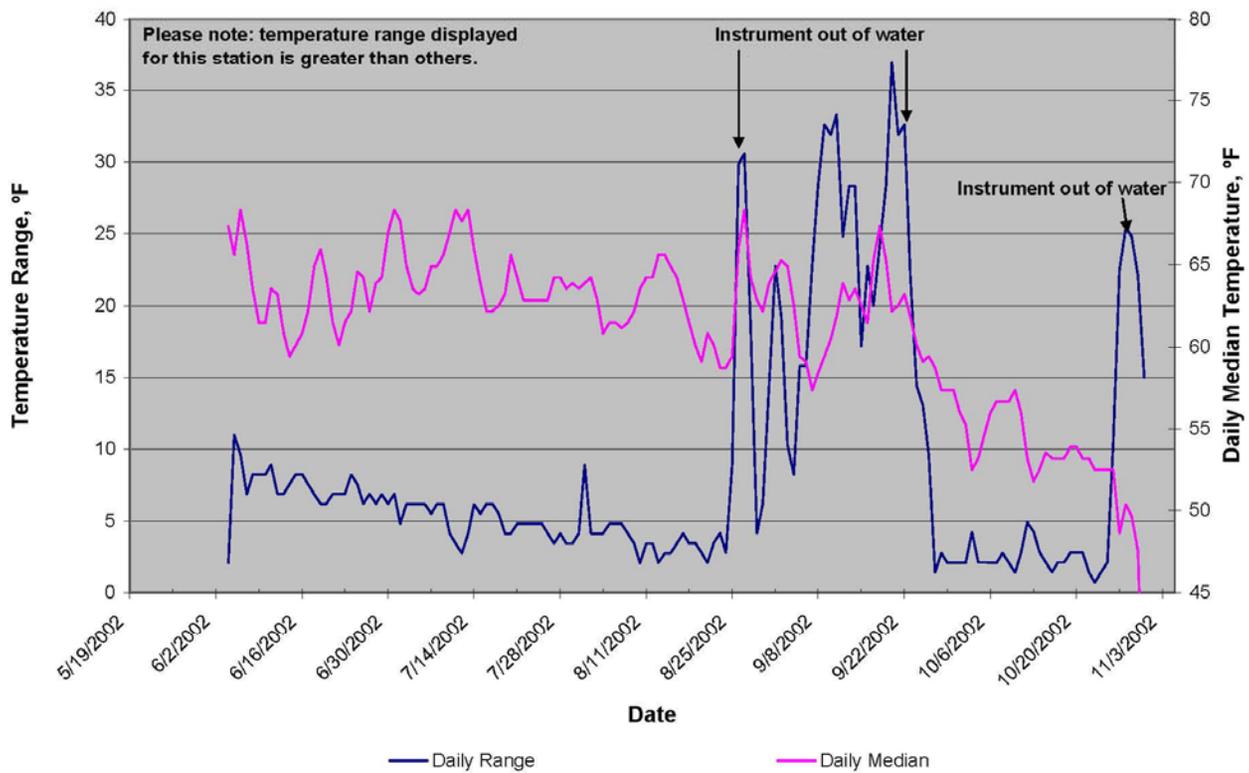
Wooden Valley 3: June-October 2002



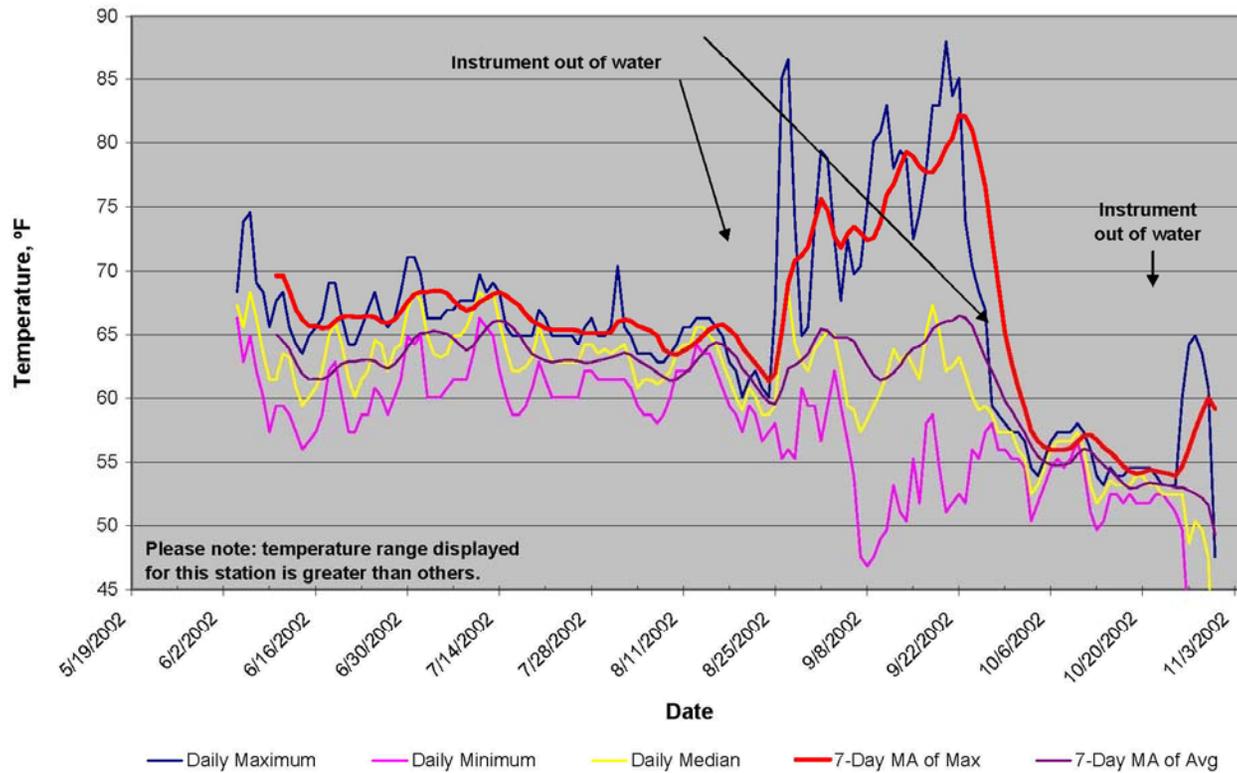
Wooden Valley Creek 3 - 2002
 Daily Water Temperature Hours Greater than 70°F



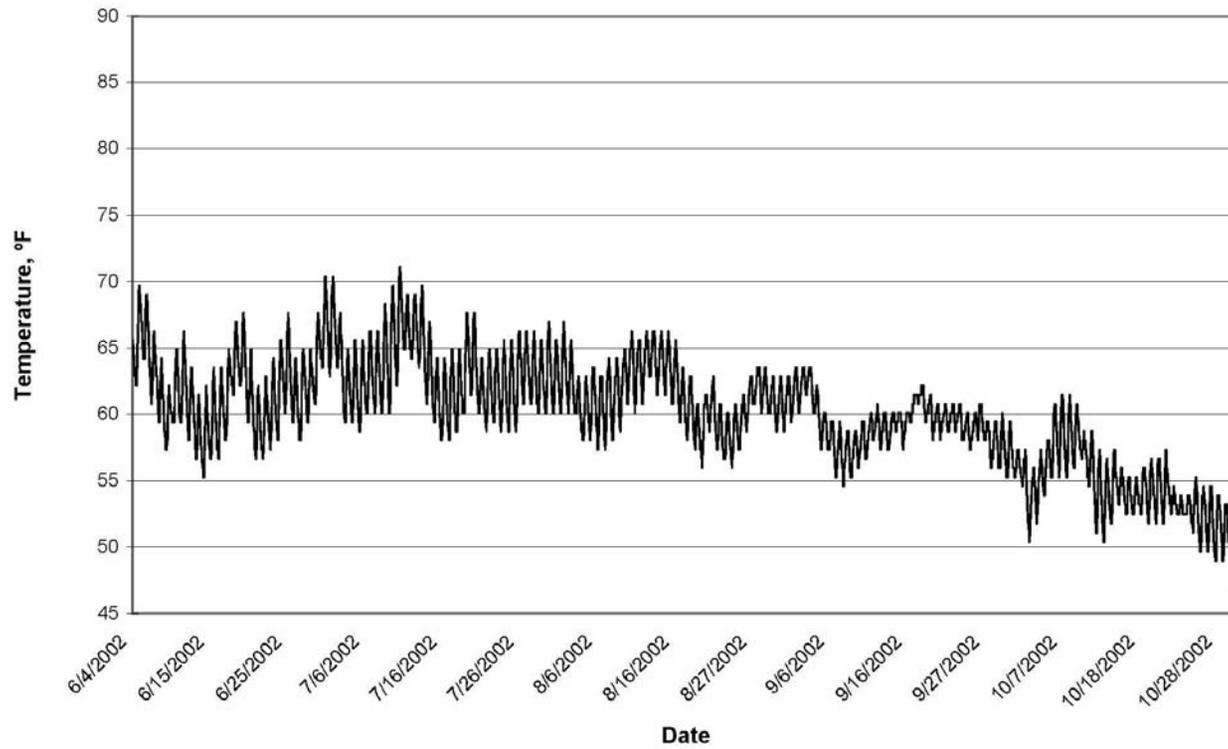
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Daily Range in Water Temperature**



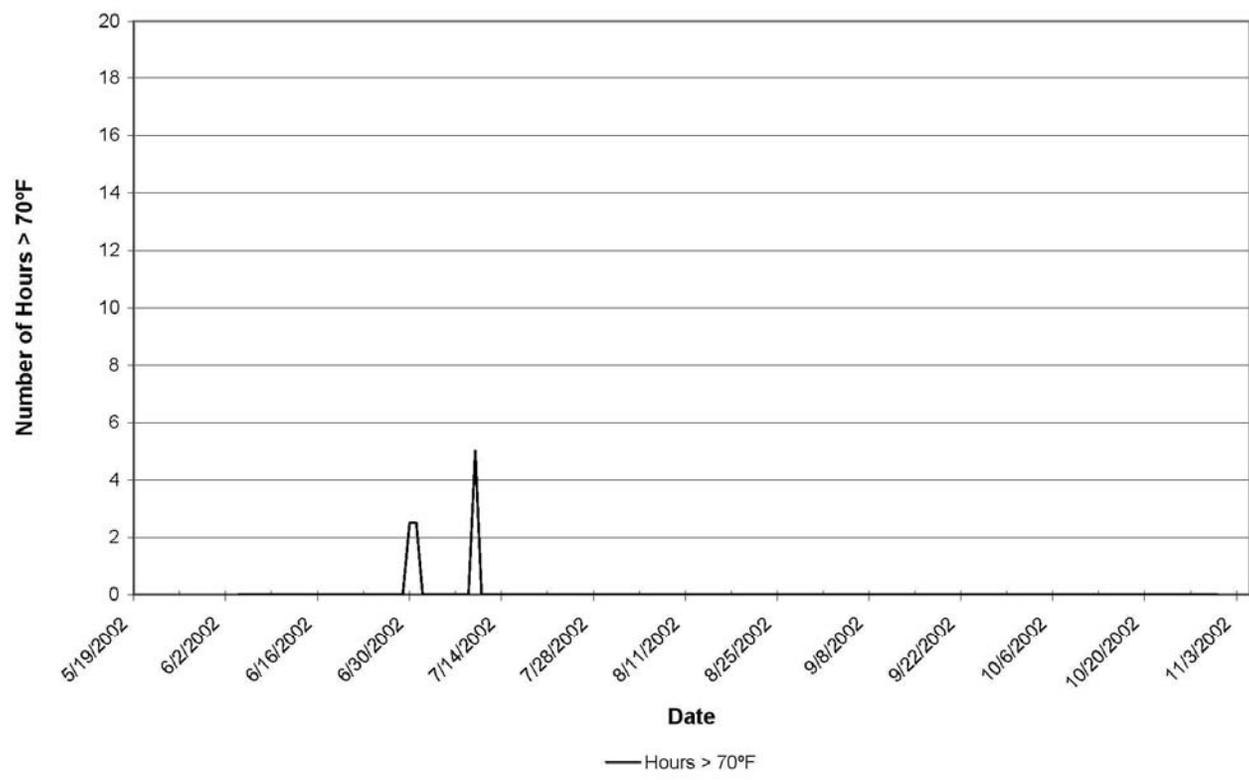
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Daily Water Temperature Summary**



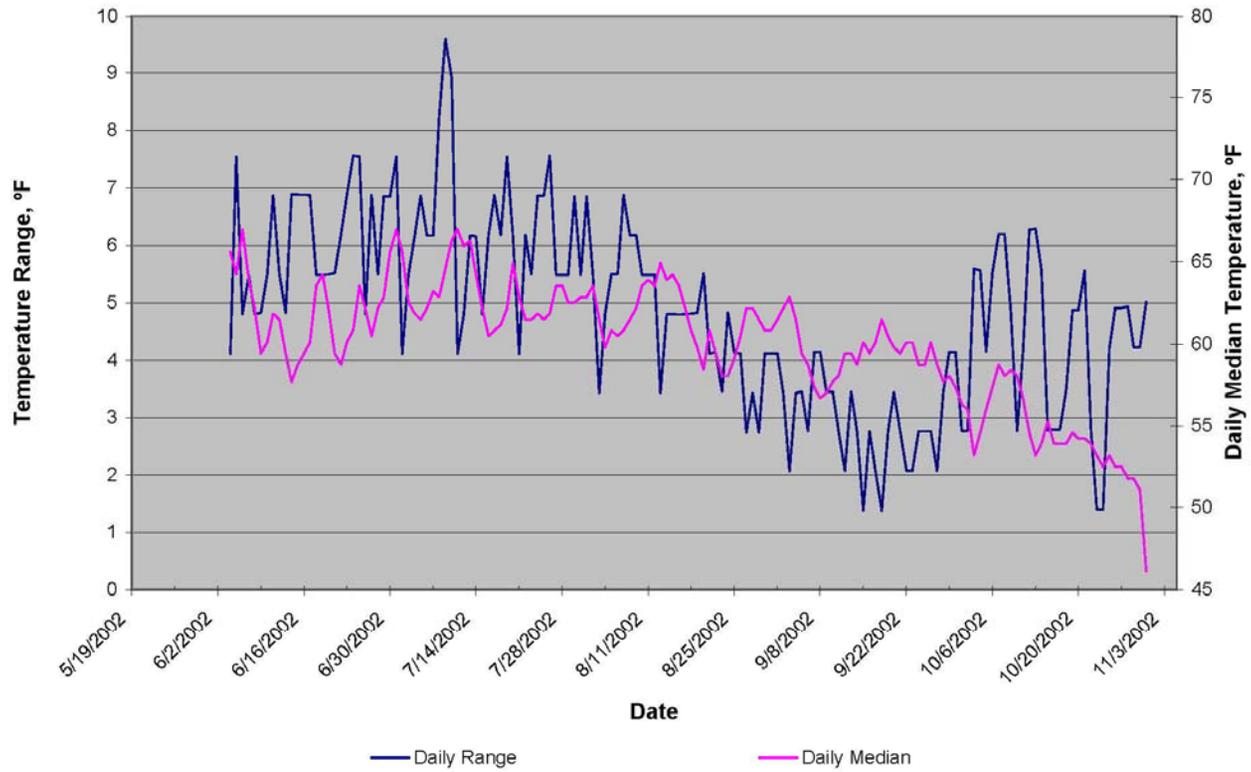
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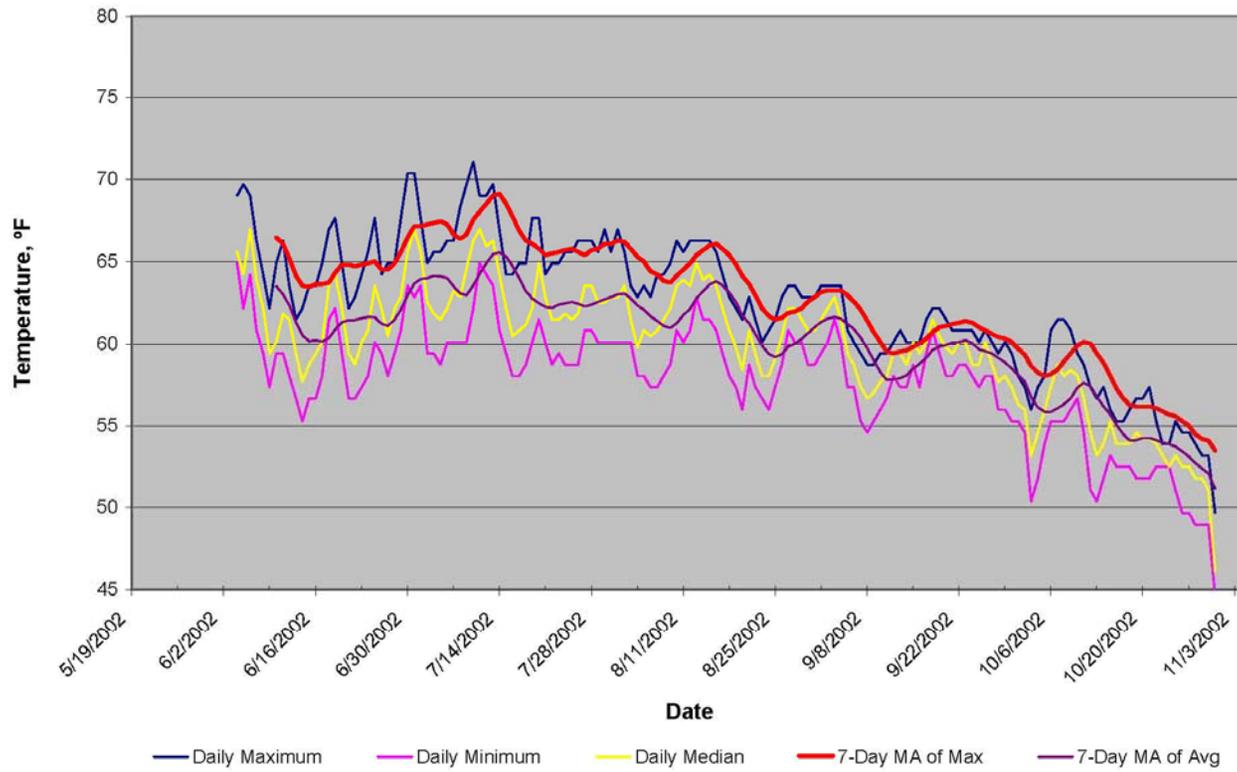
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Daily Water Temperature Hours Greater than 70°F



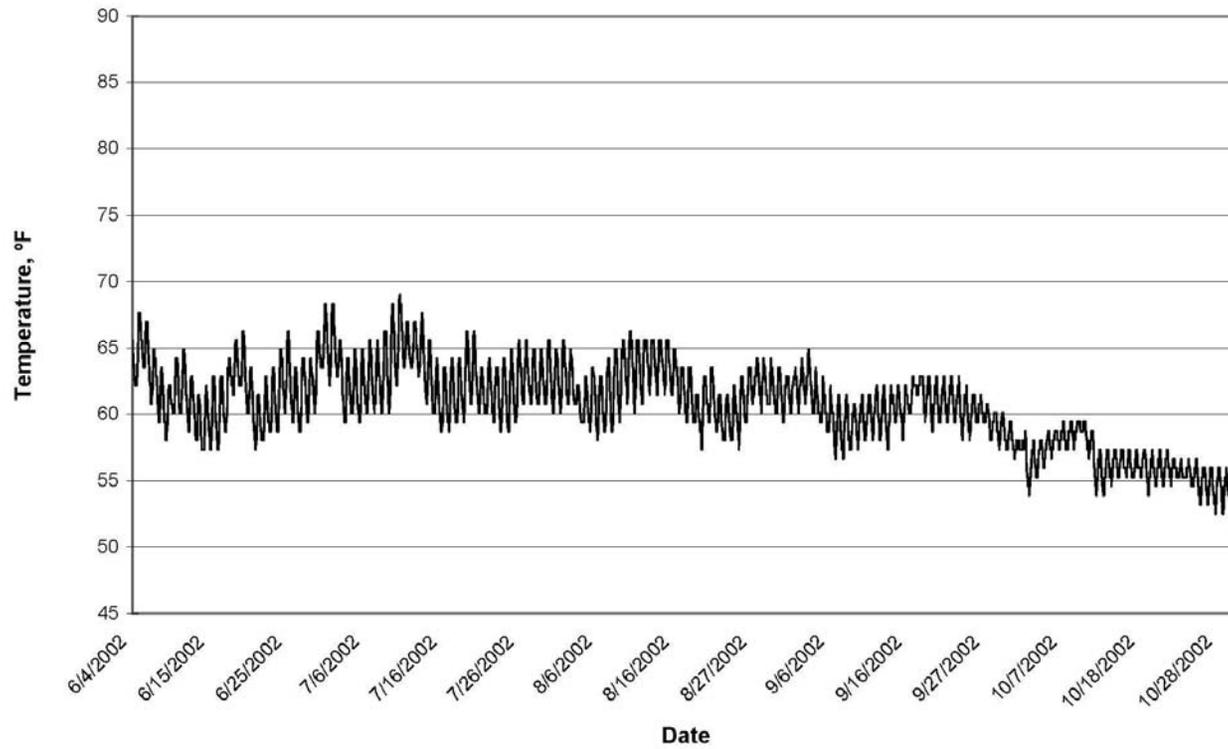
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Daily Range in Water Temperature**



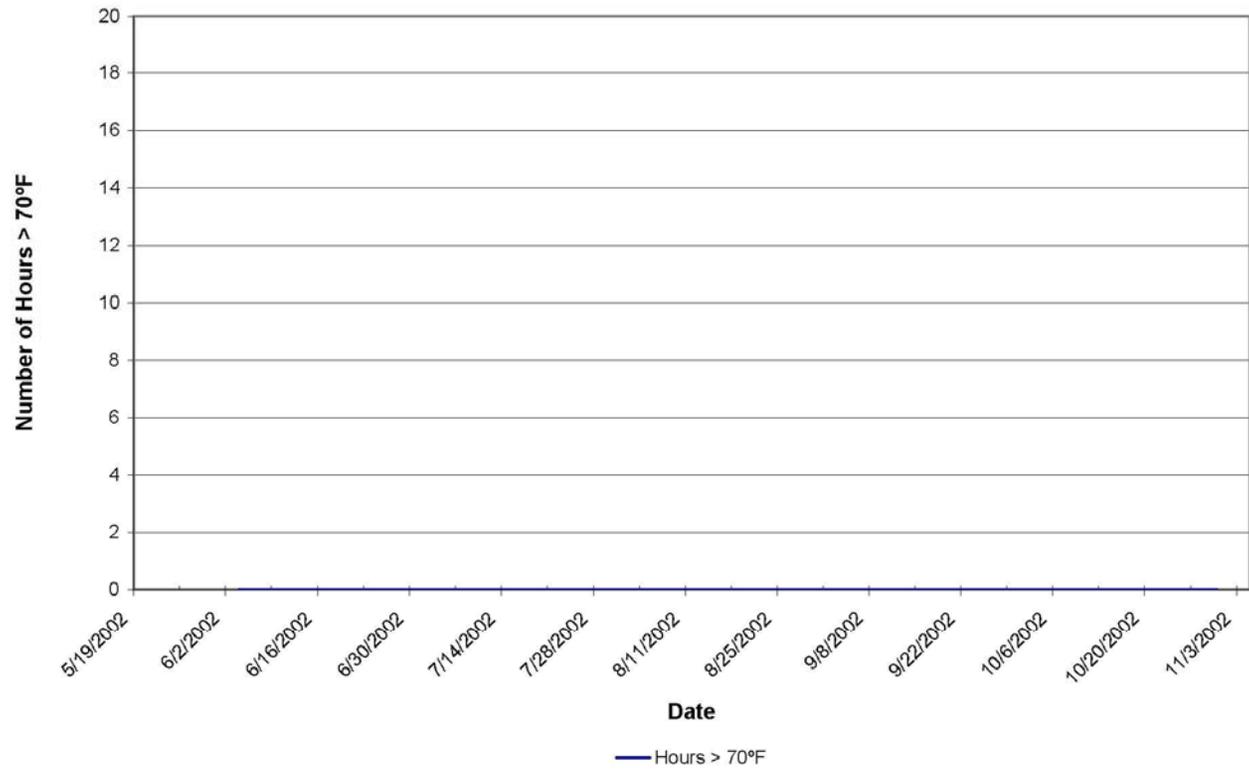
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Daily Water Temperature Summary**



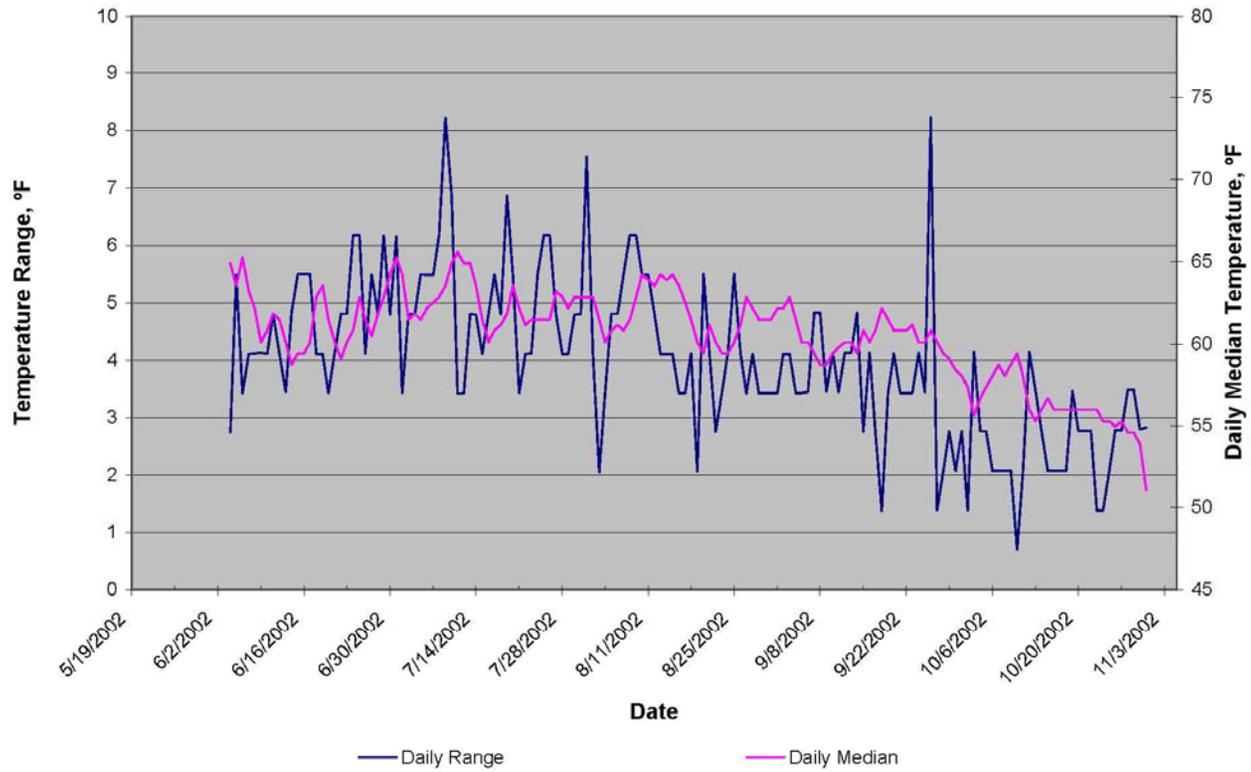
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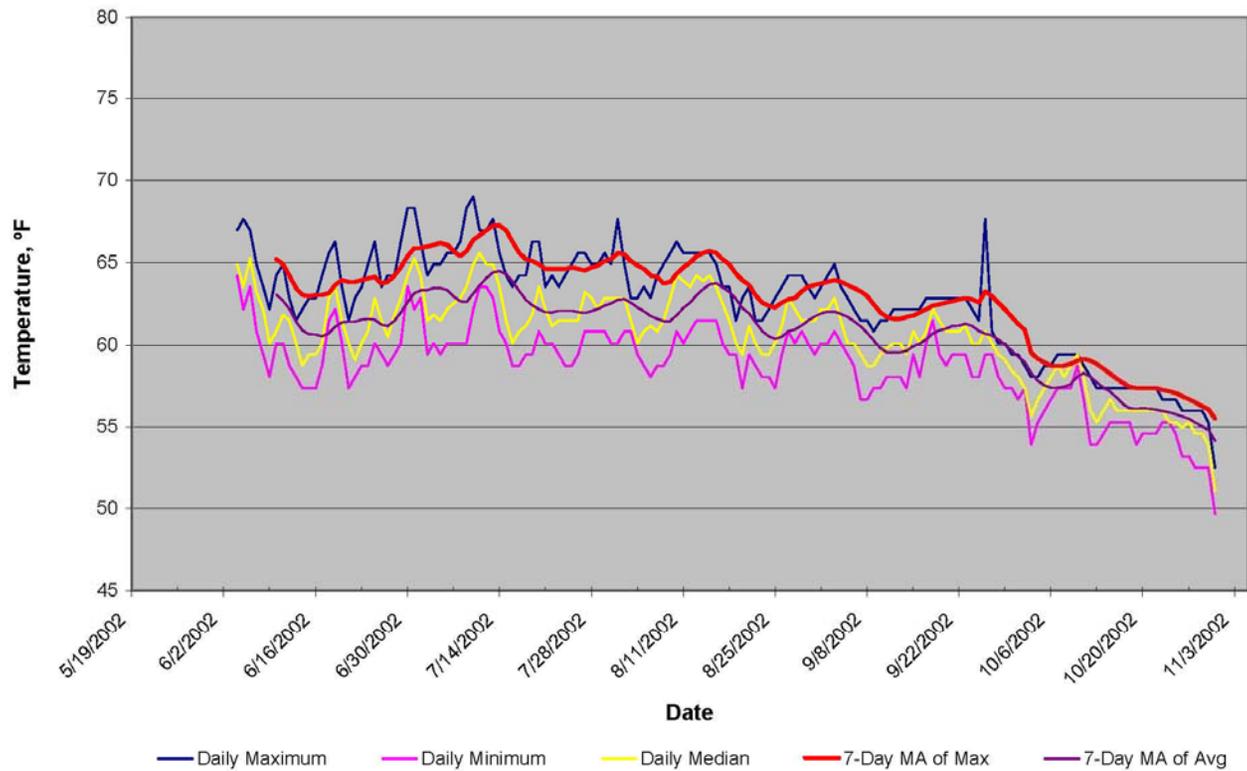
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Daily Water Temperature Hours Greater than 70°F



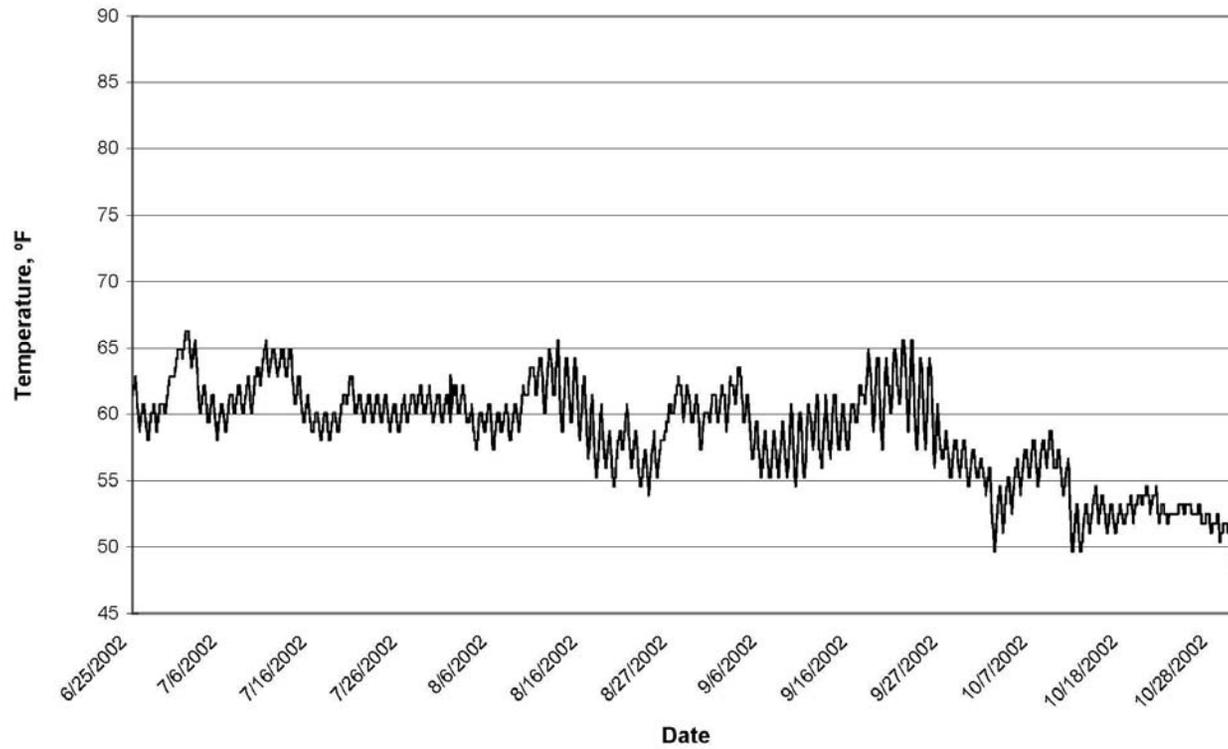
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Daily Range in Water Temperature



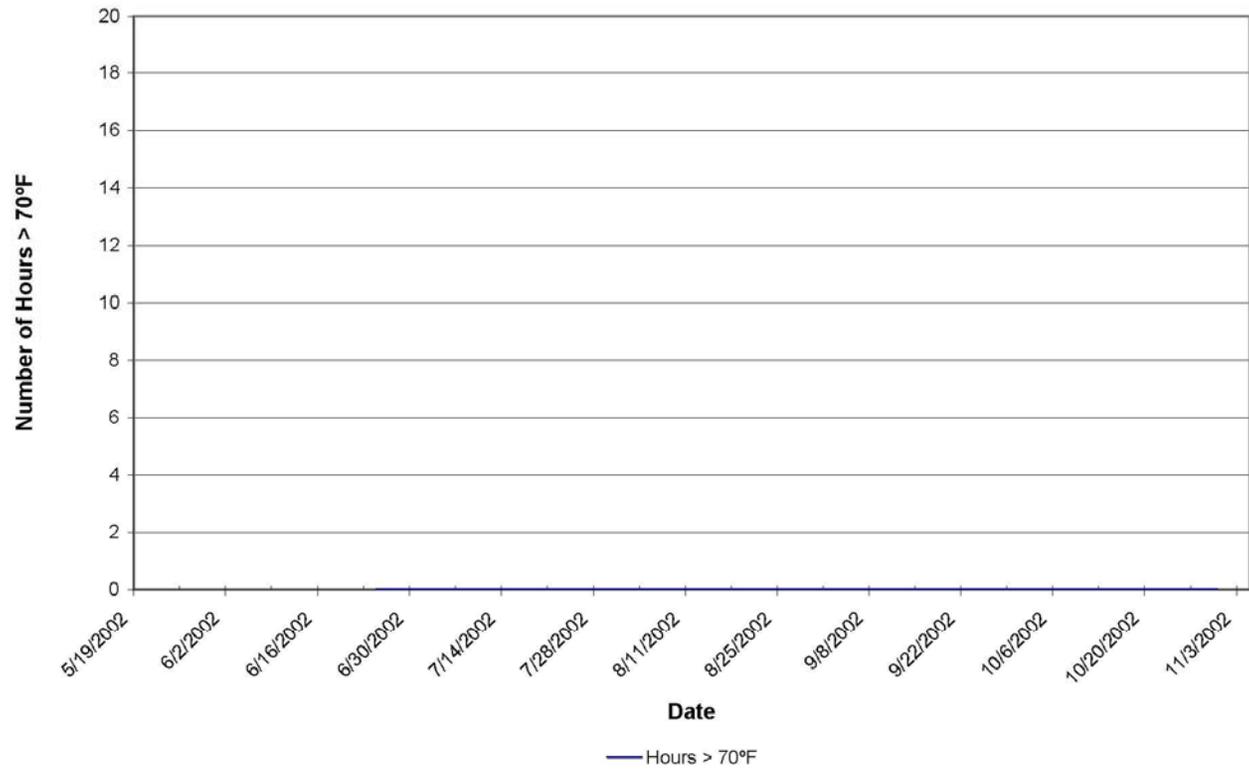
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Daily Water Temperature Summary



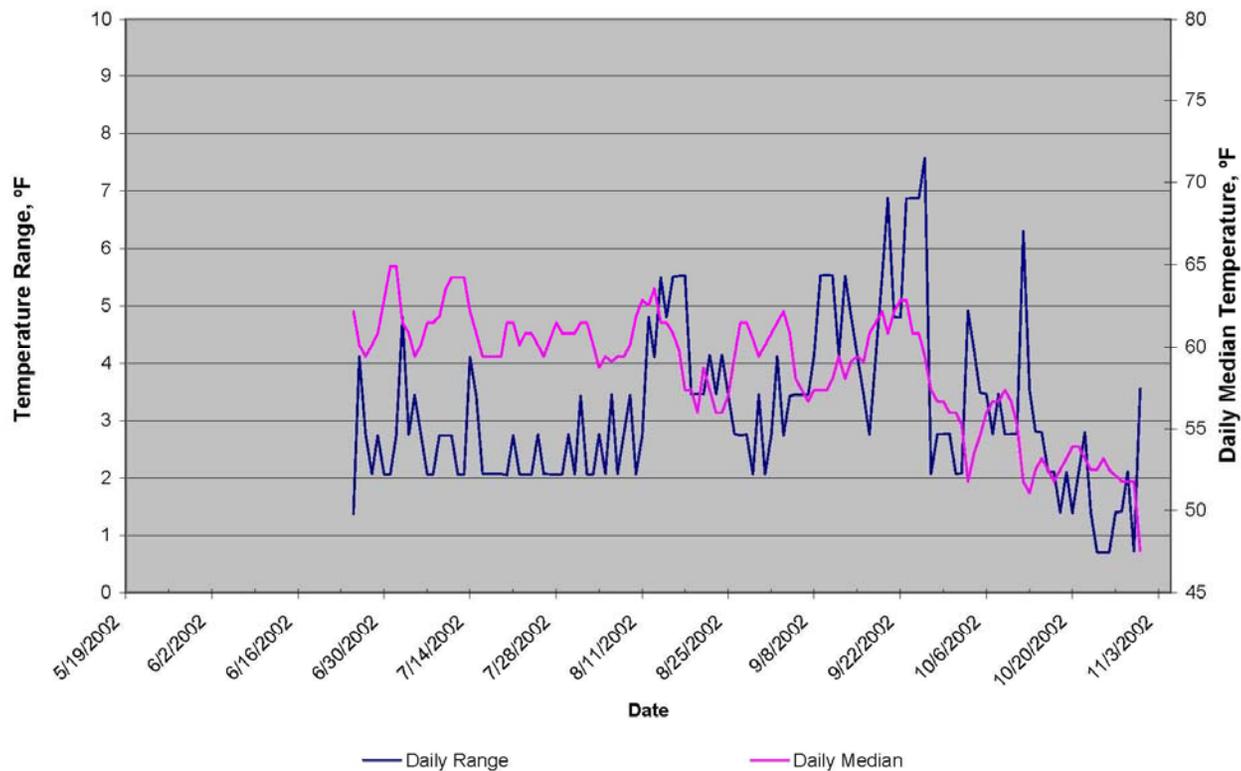
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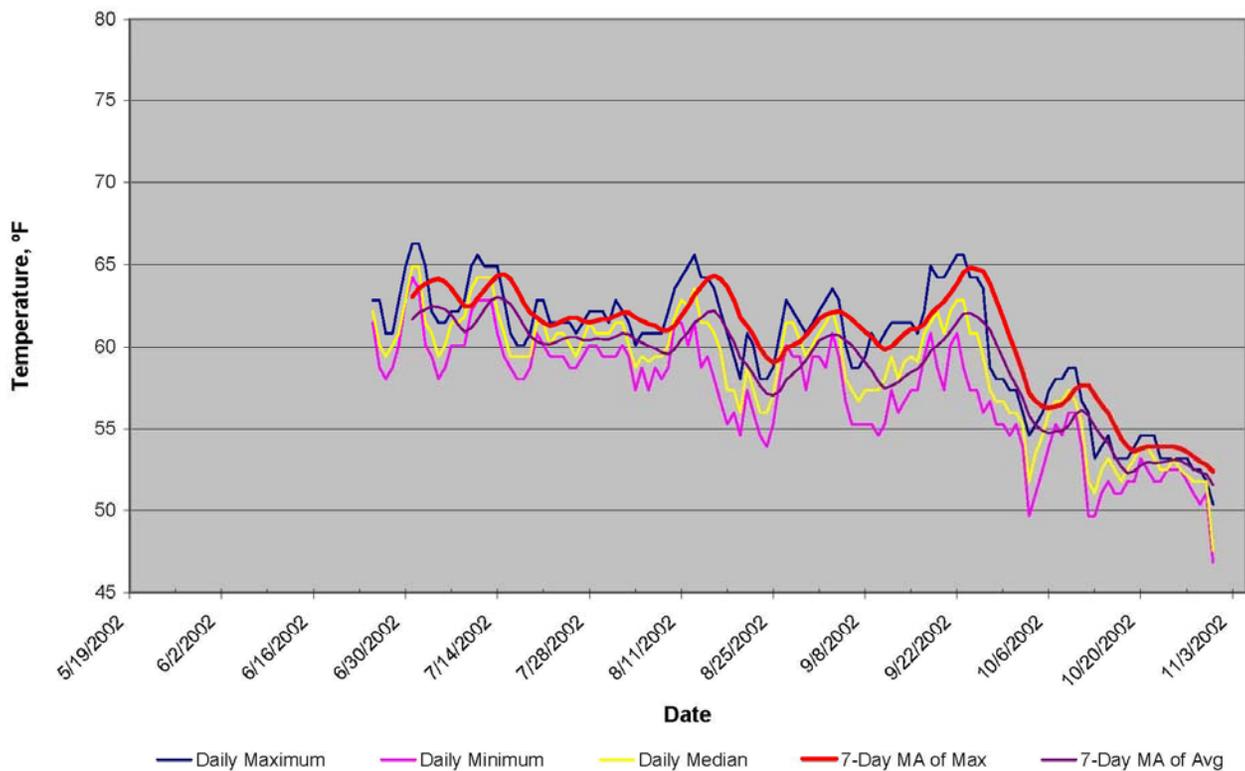
White Creek 1 - 2002
Daily Water Temperature Hours Greater than 70°F



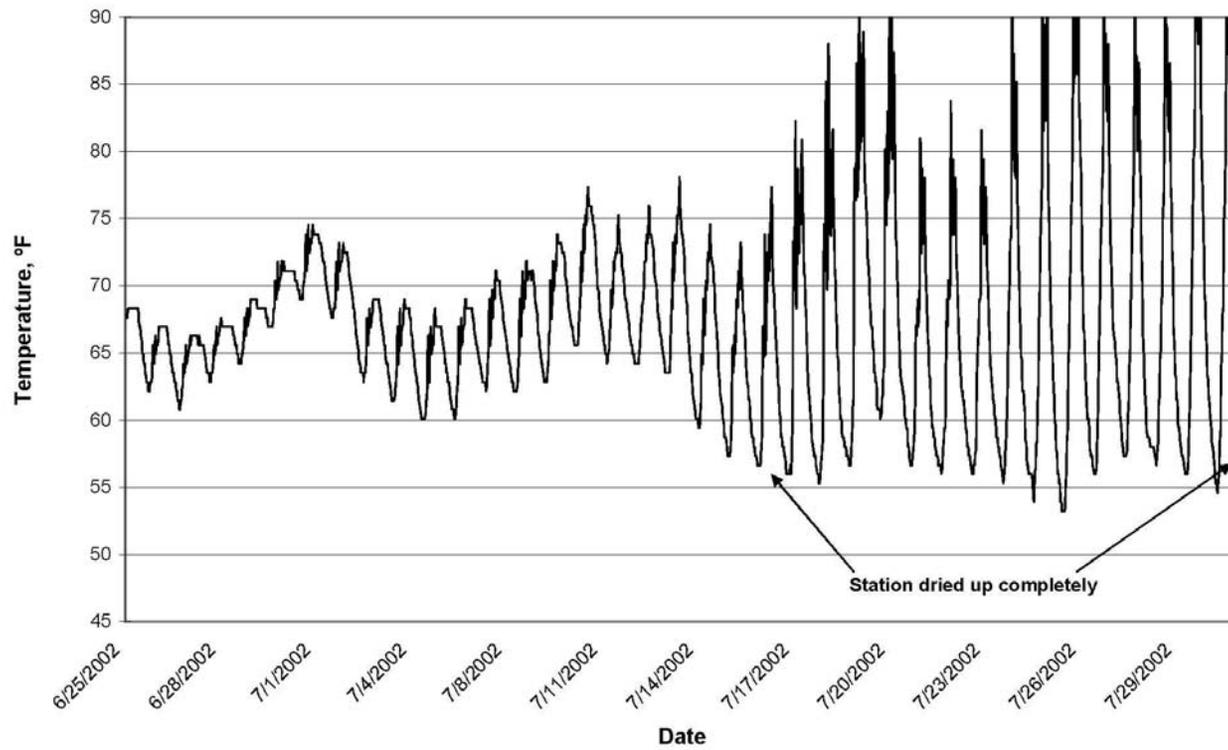
White Creek 1 - 2002
Daily Range in Water Temperature

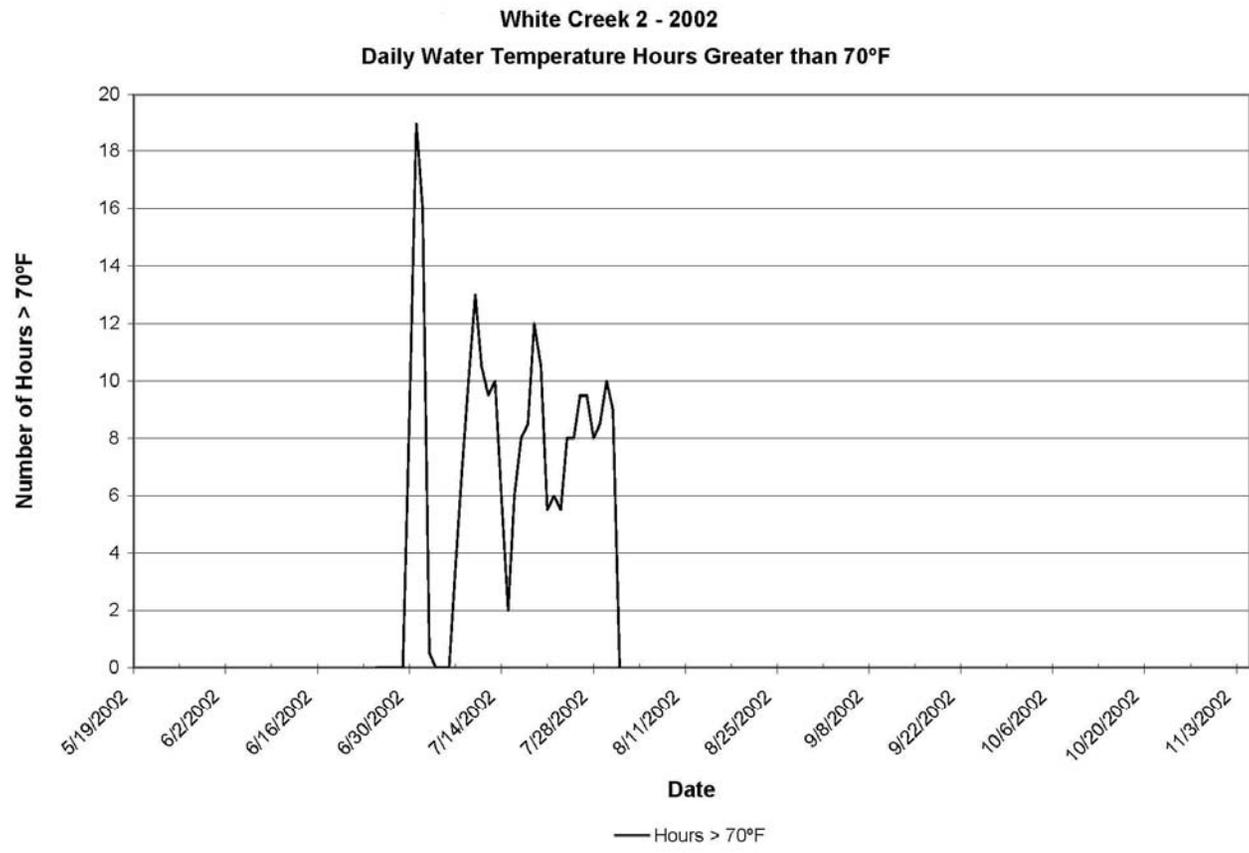


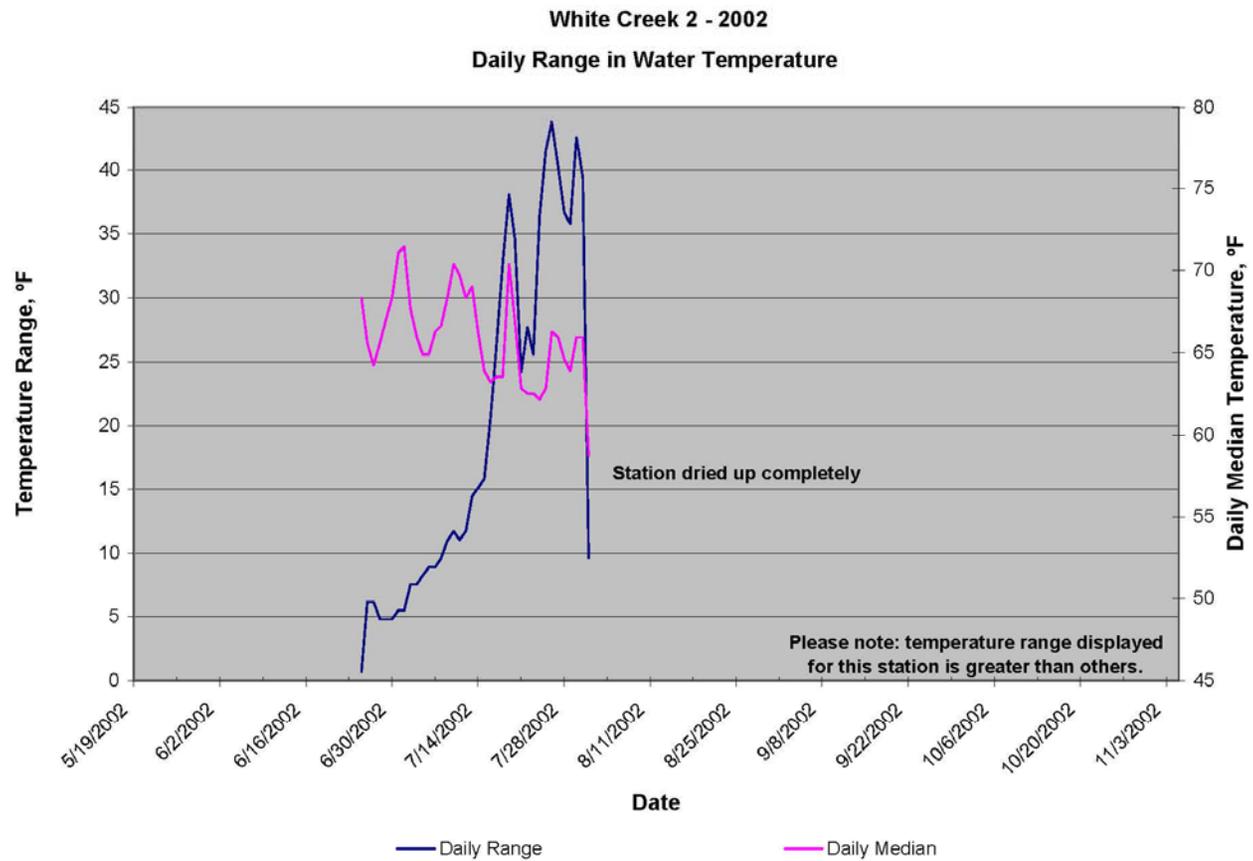
White Creek 1 - 2002
Daily Water Temperature Summary



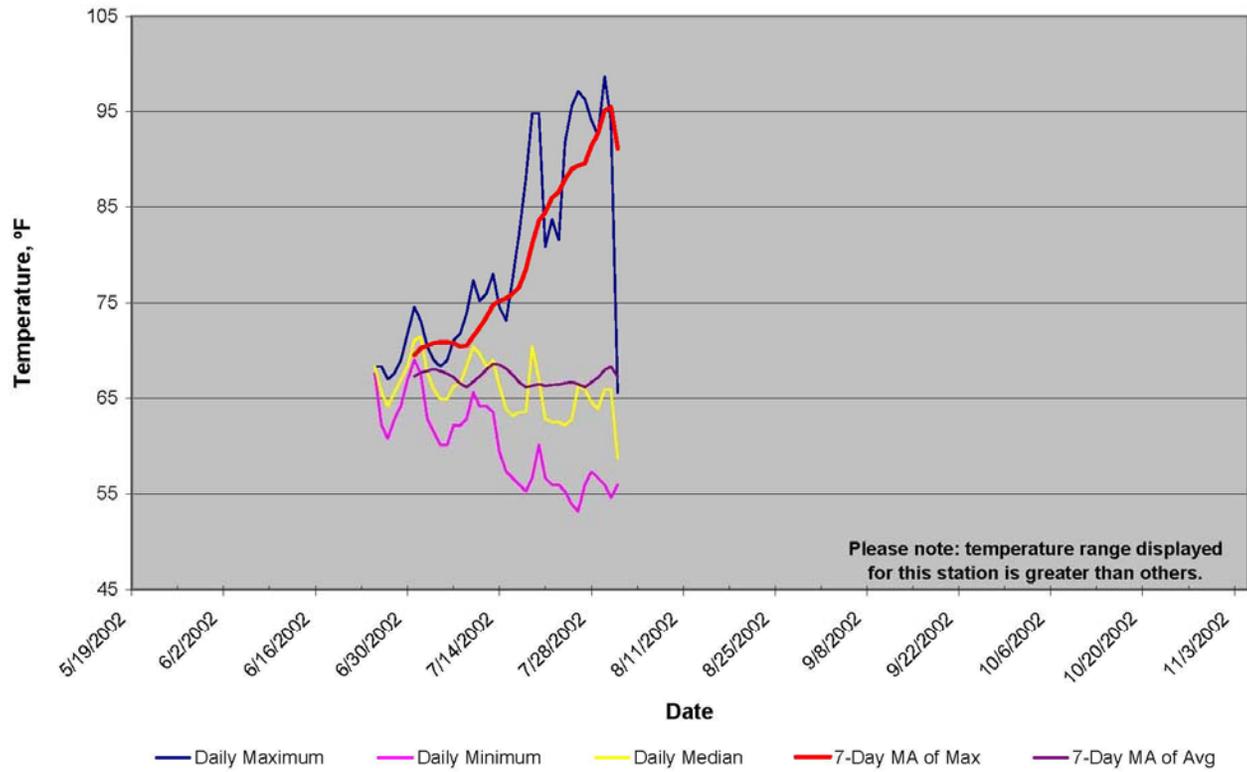
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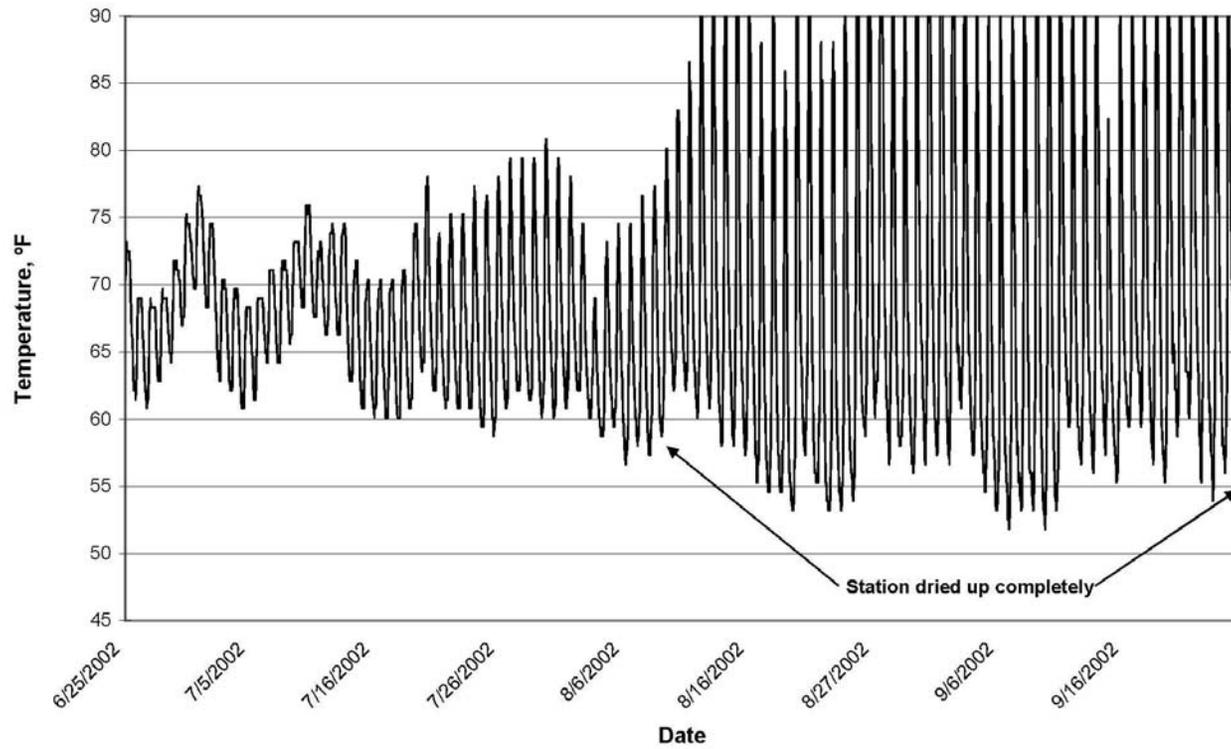


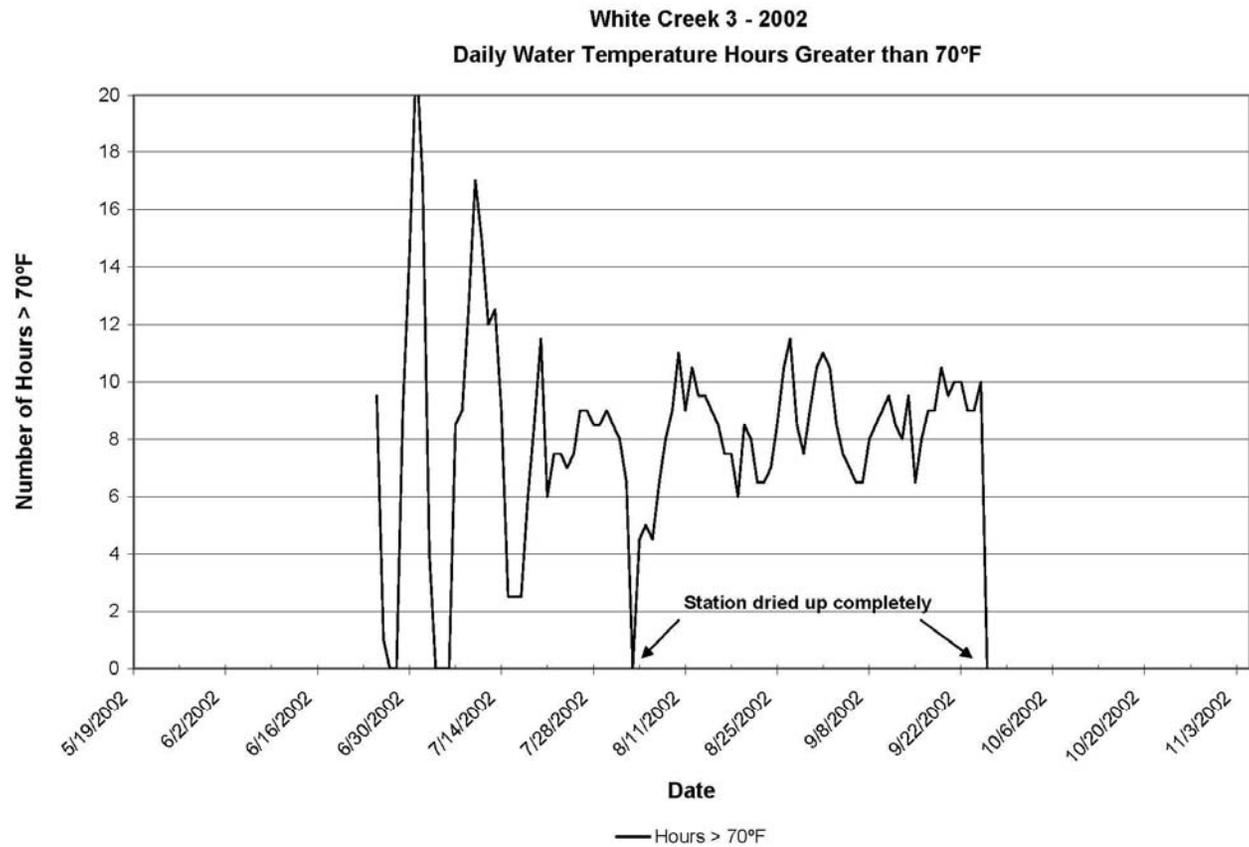


White Creek 2 - 2002
Daily Water Temperature Summary

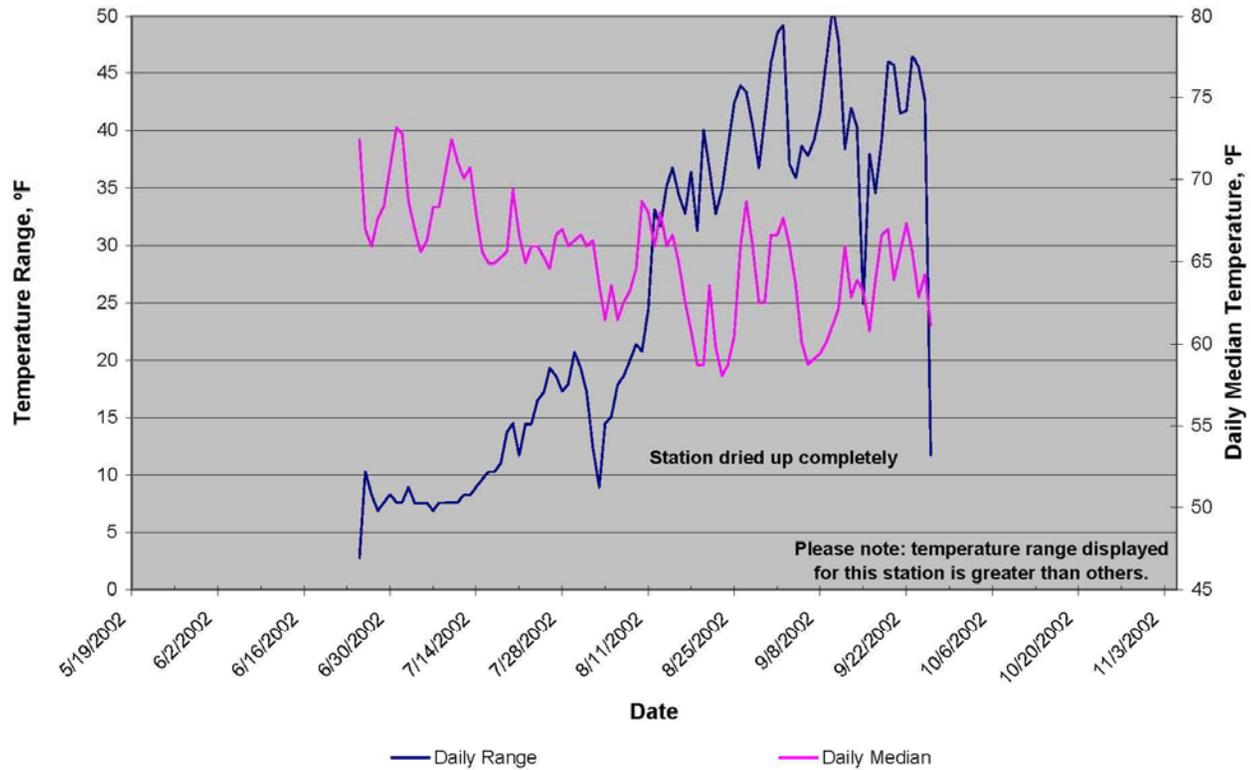


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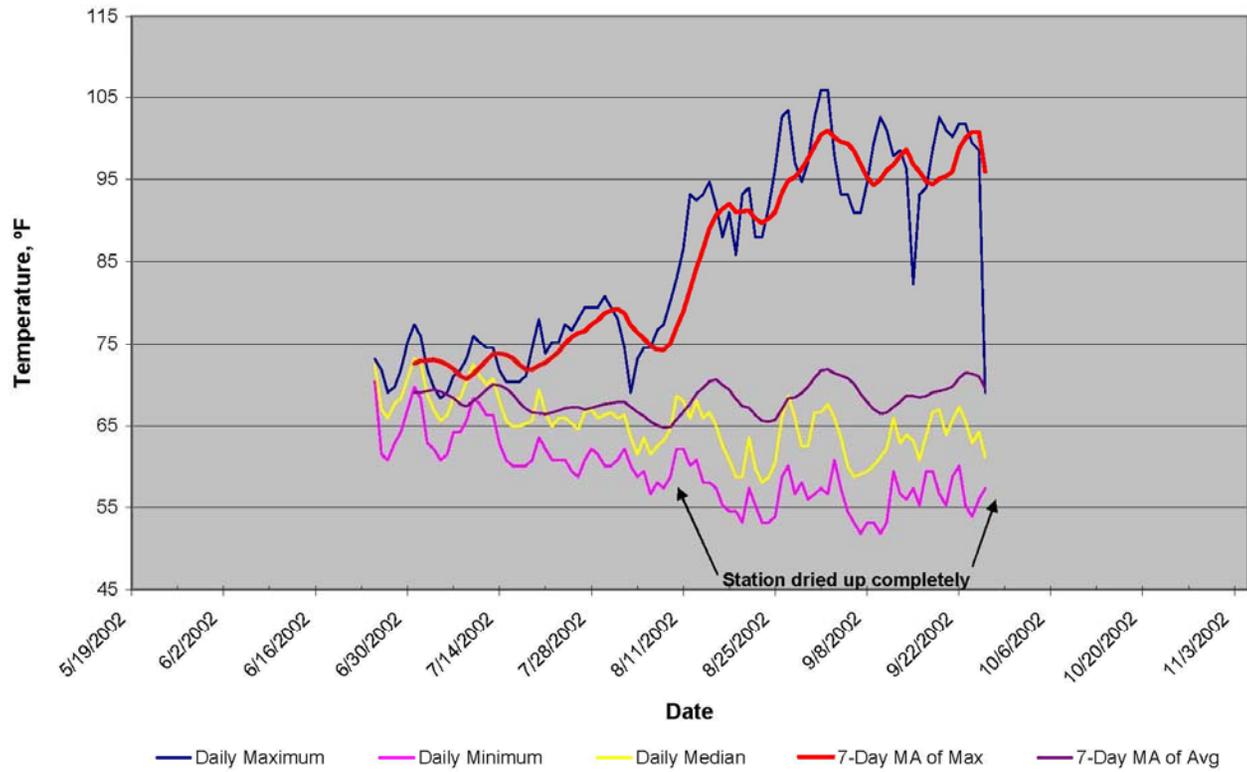




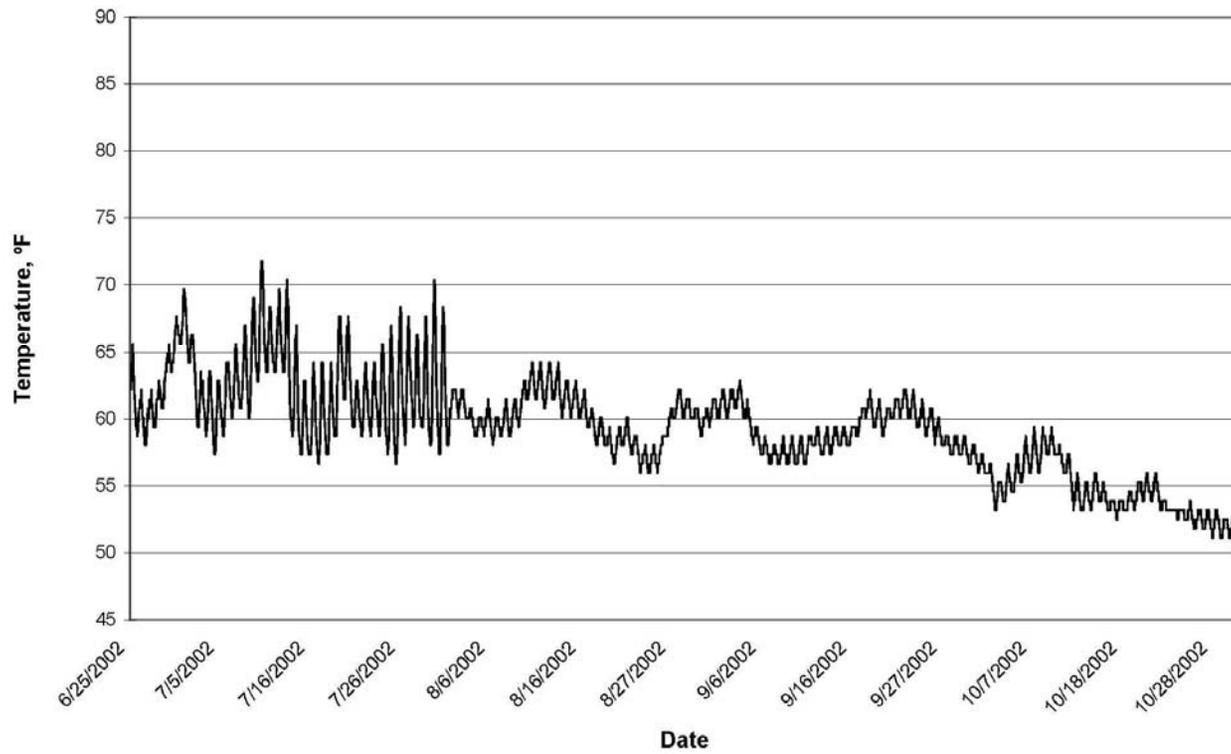
White Creek 3 - 2002
Daily Range in Water Temperature



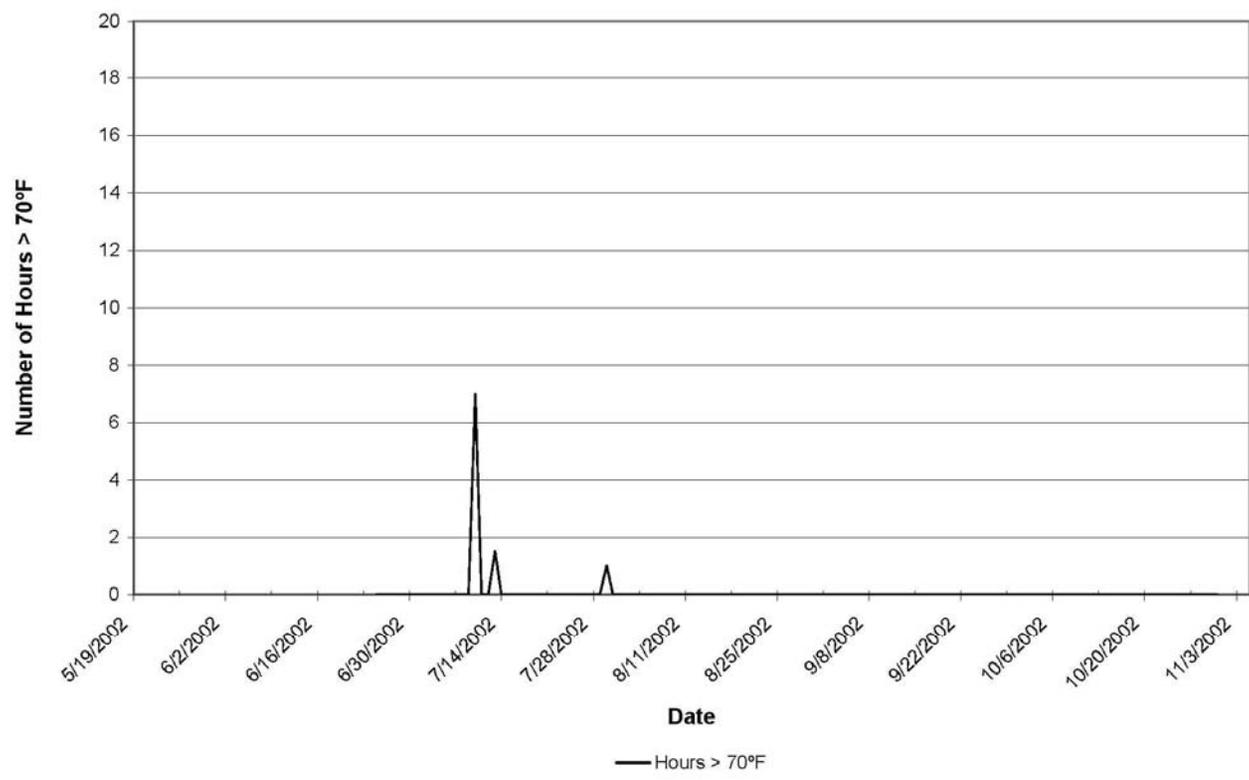
White Creek 3 - 2002
Daily Water Temperature Summary



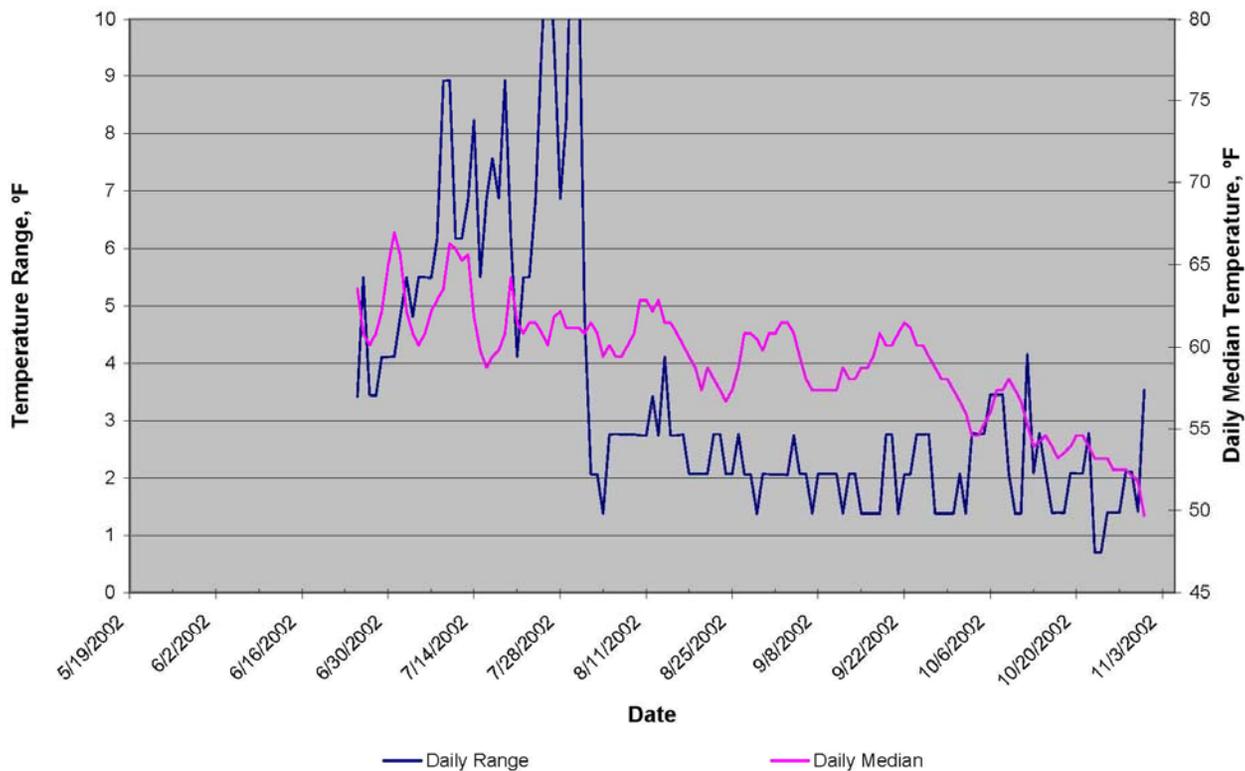
White Creek 4: June - October 2002



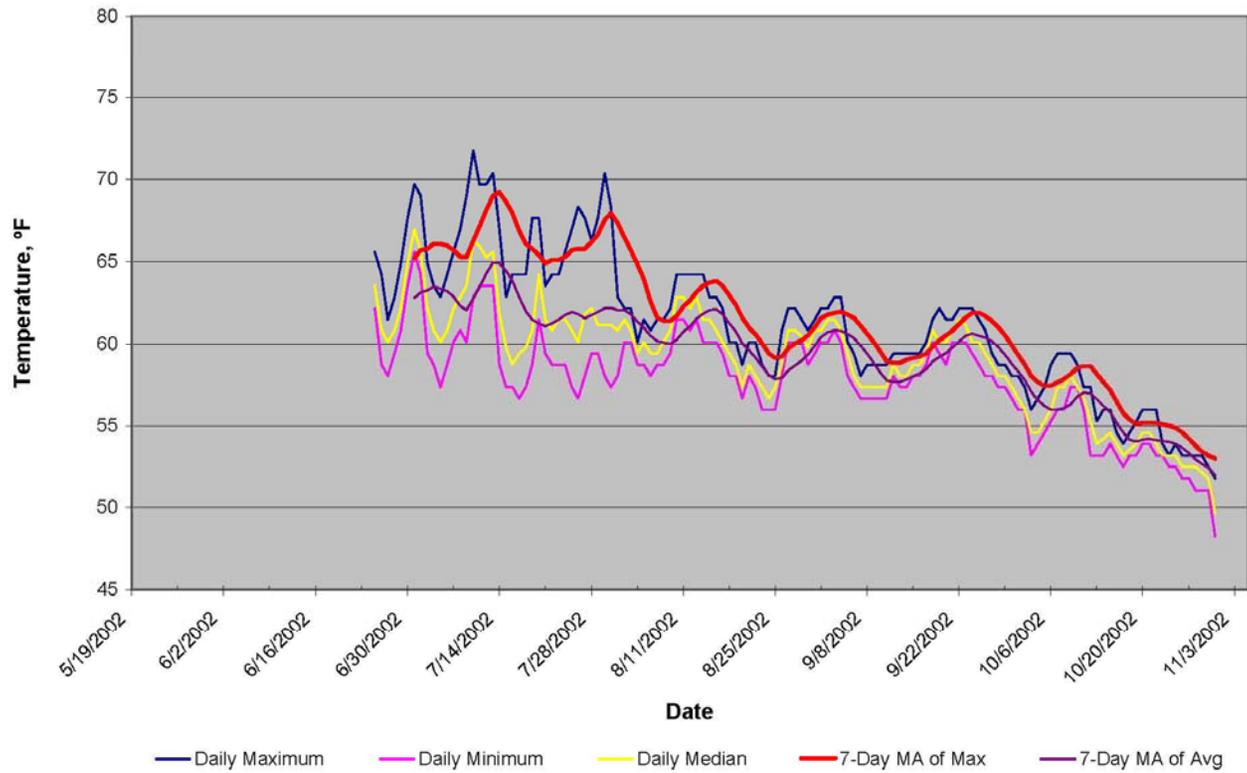
White Creek 4 - 2002
Daily Water Temperature Hours Greater than 70°F



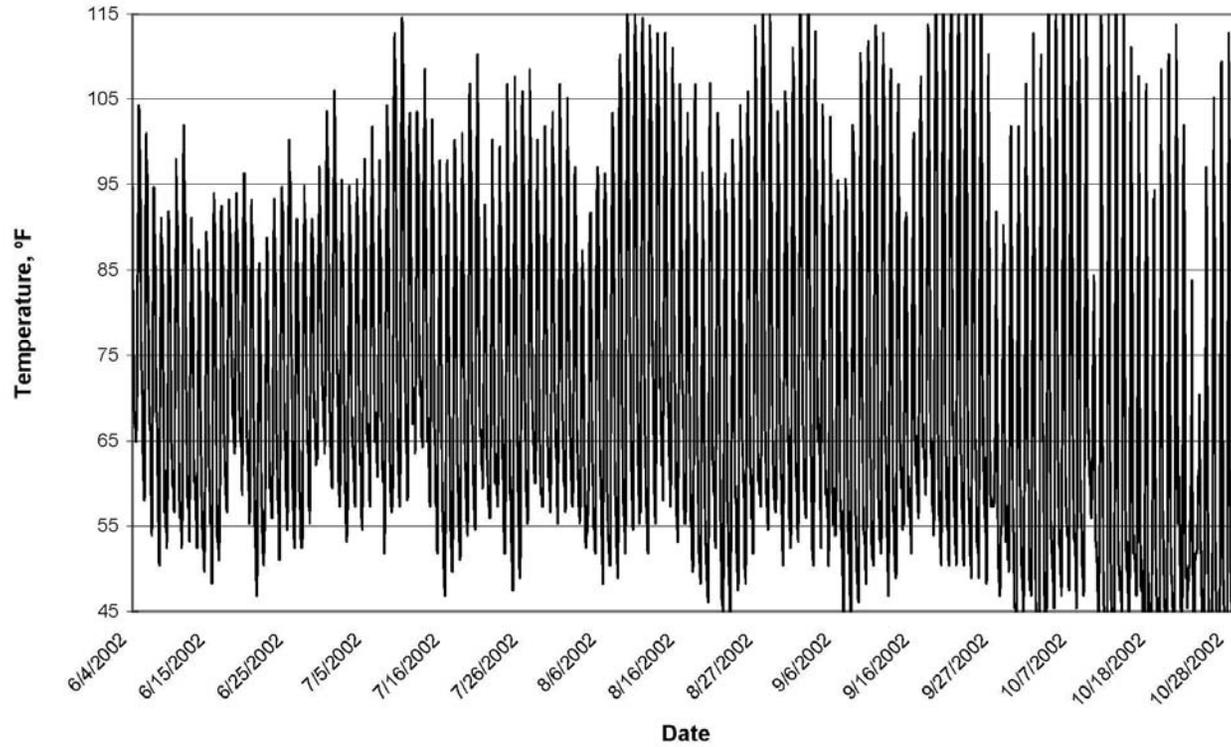
White Creek 4 - 2002
Daily Range in Water Temperature



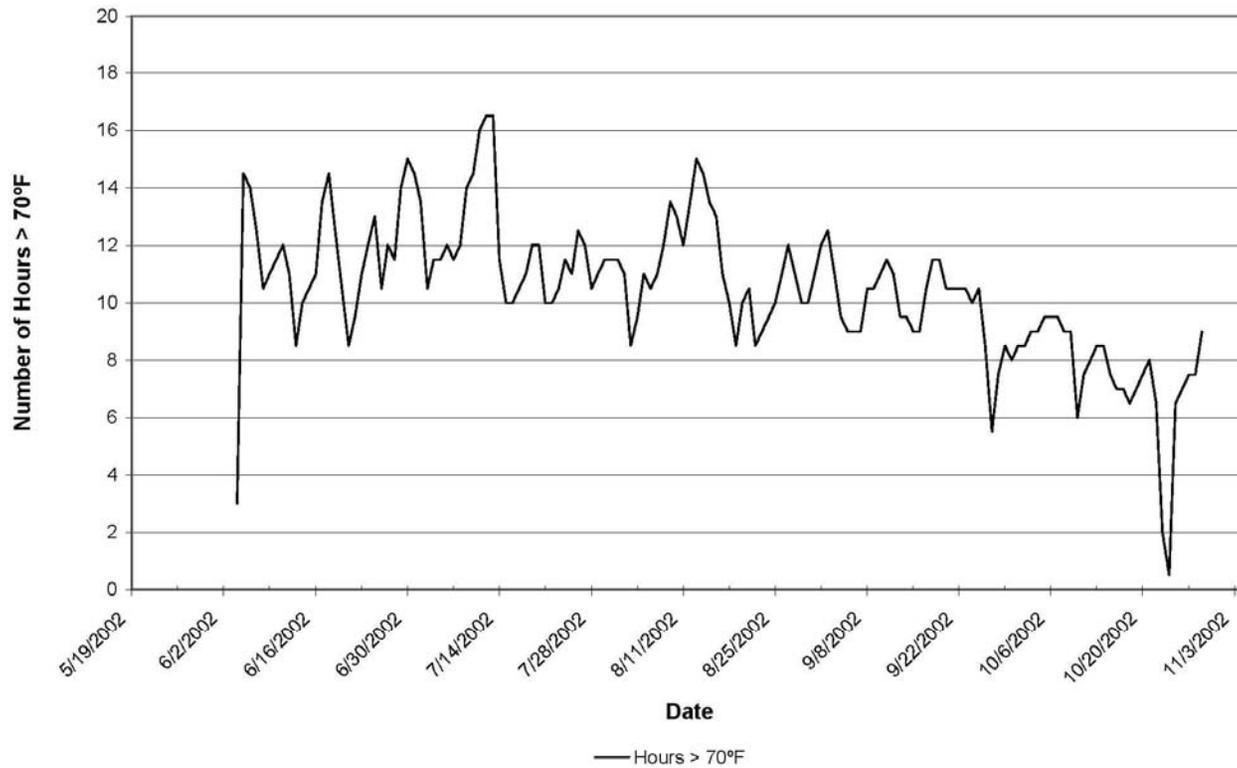
**White Creek 4 - 2002
Daily Water Temperature Summary**



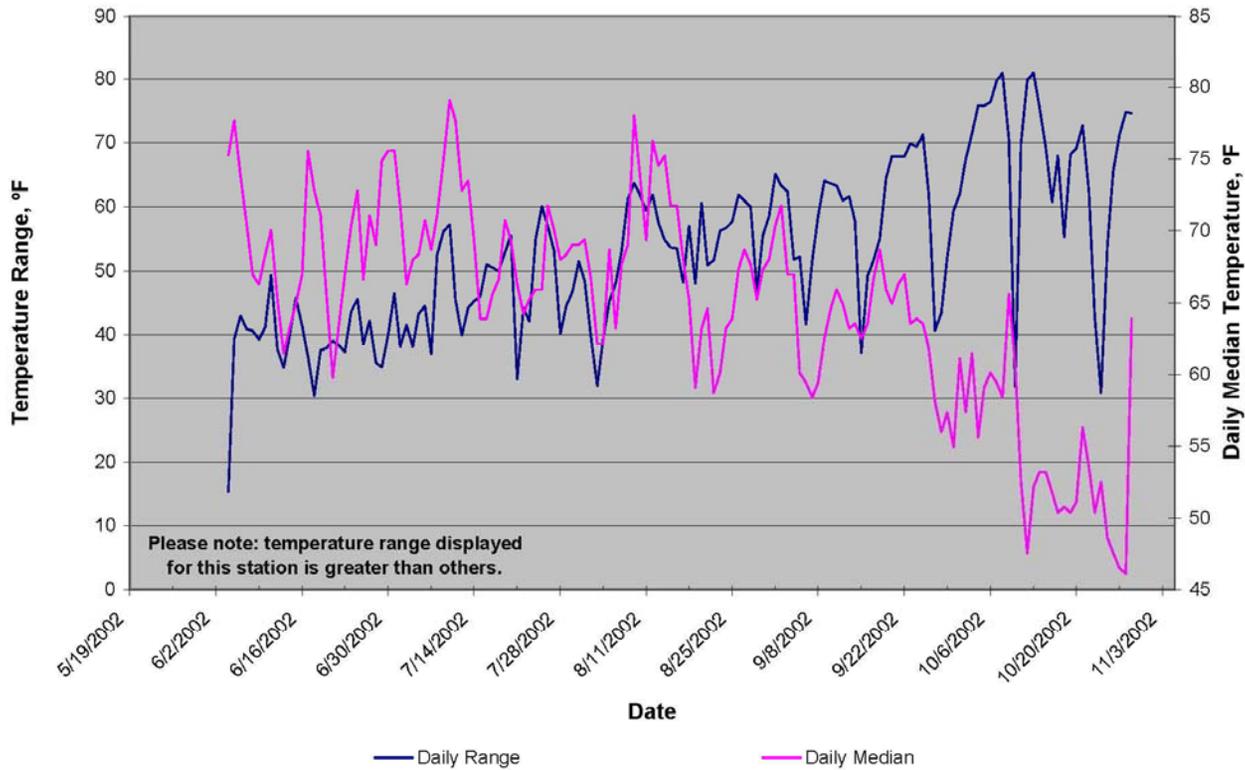
Wooden Valley Creek 7 AIR: June-October 2002



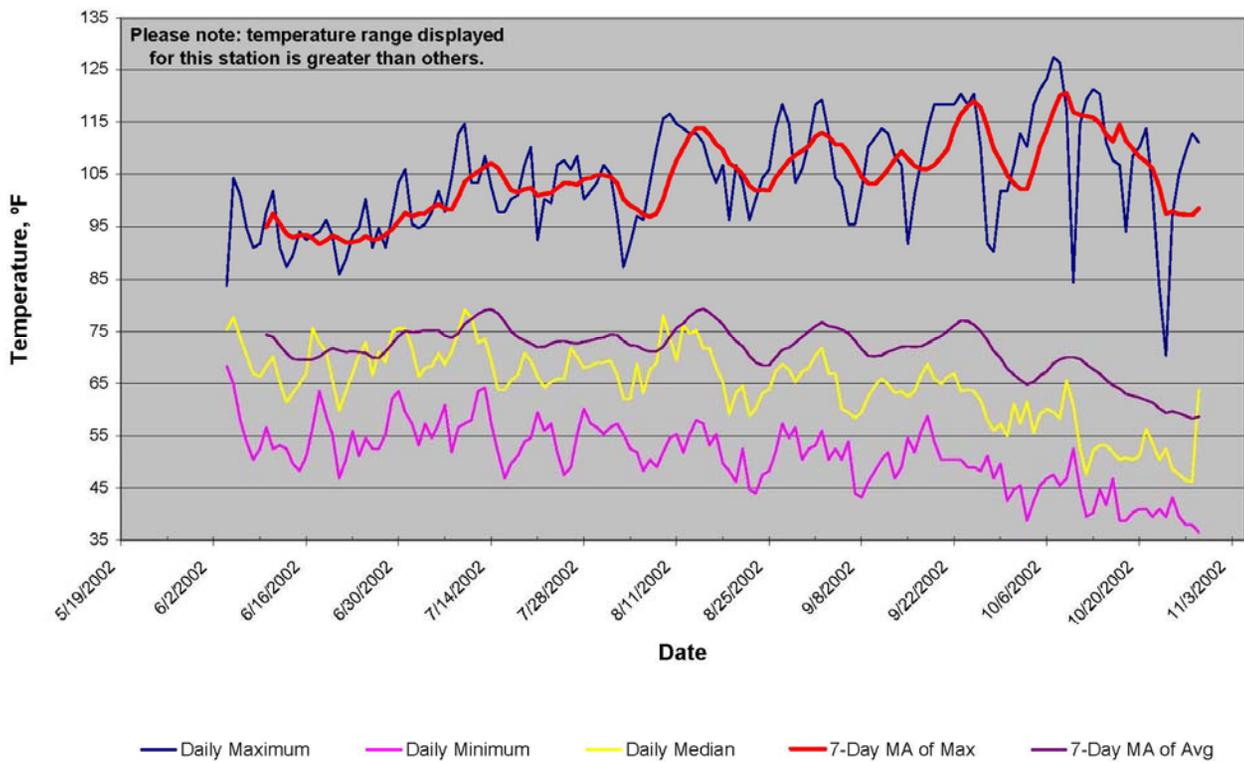
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Daily Air Temperature Hours Greater than 70°F

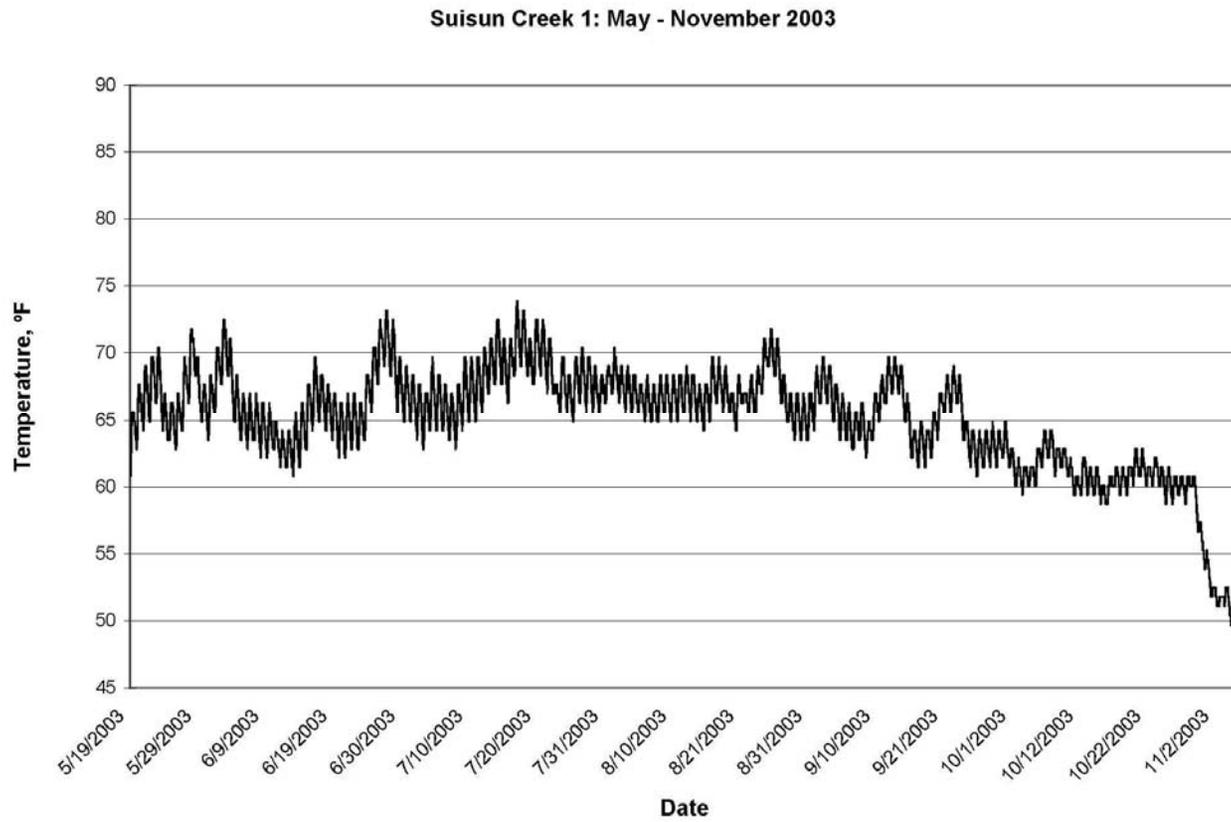


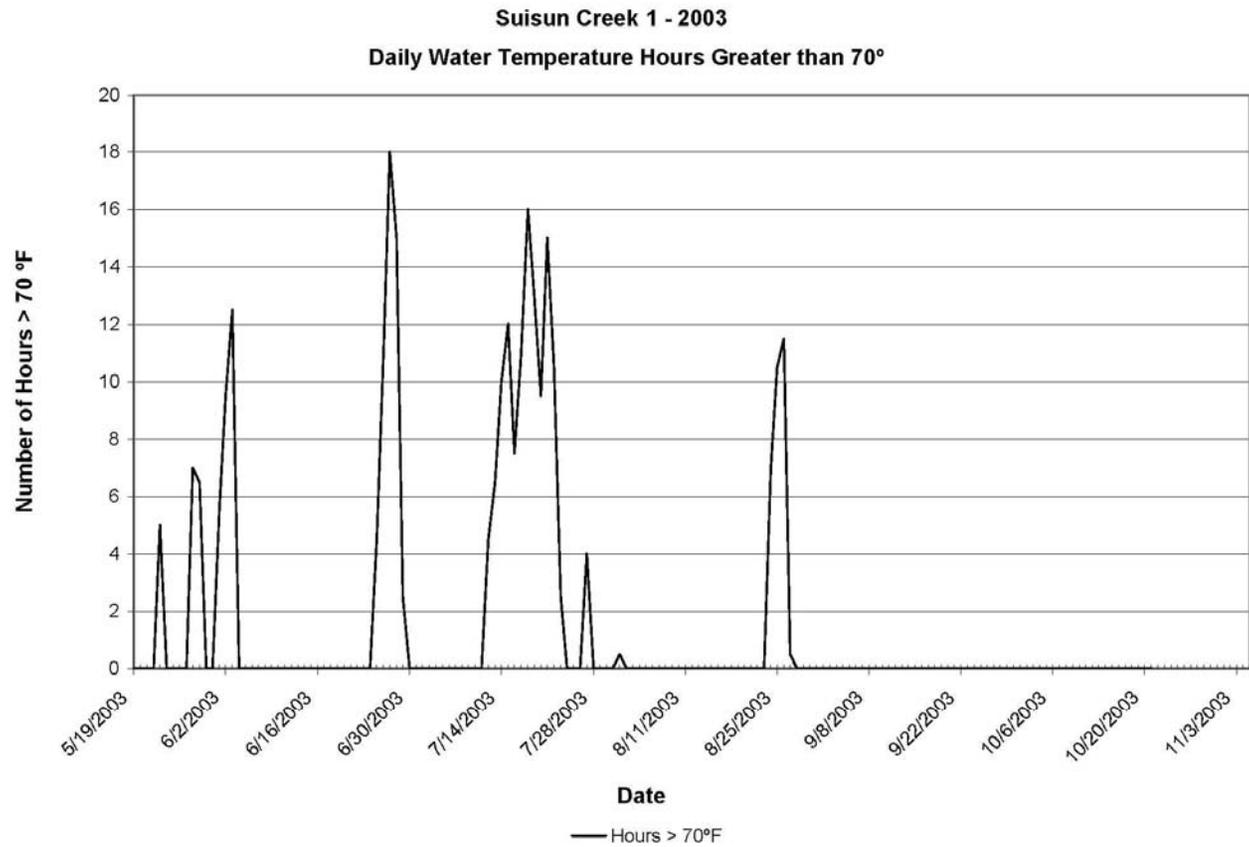
Wooden Valley Creek 7 AIR - 2002
Daily Range in Air Temperature



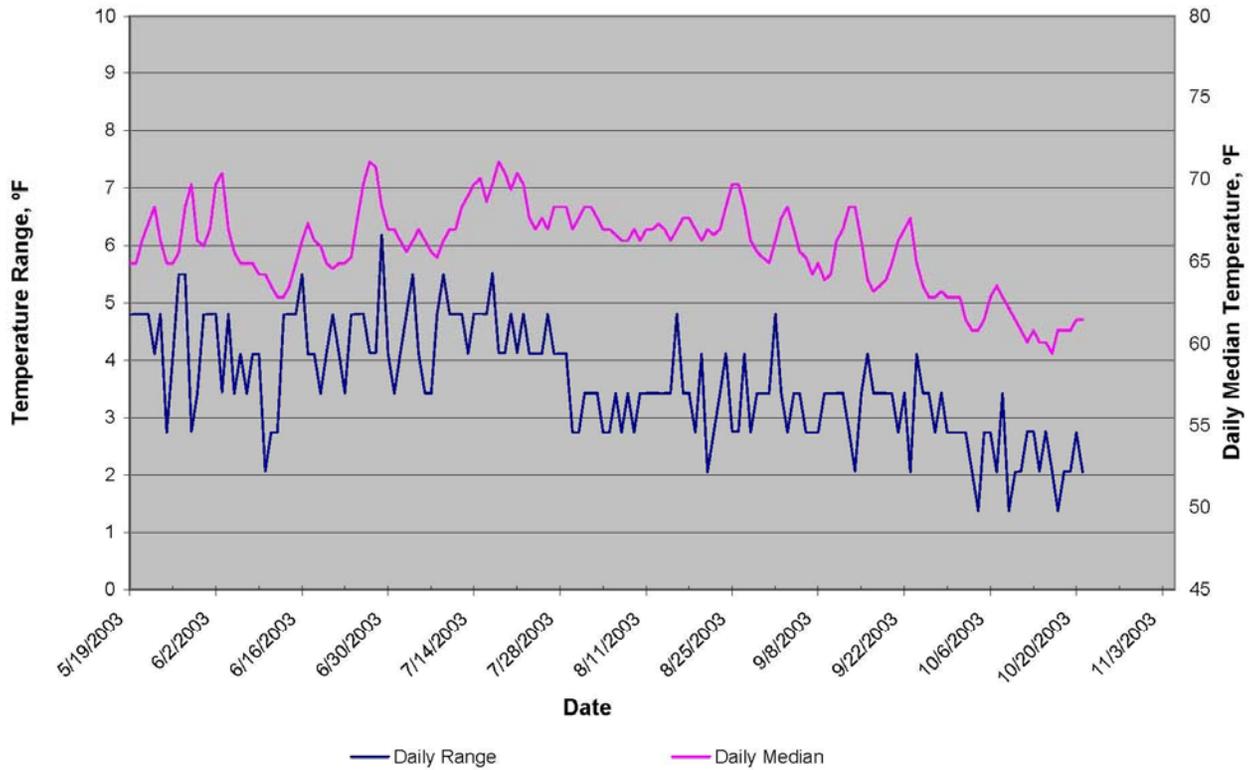
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Daily Air Temperature Summary**



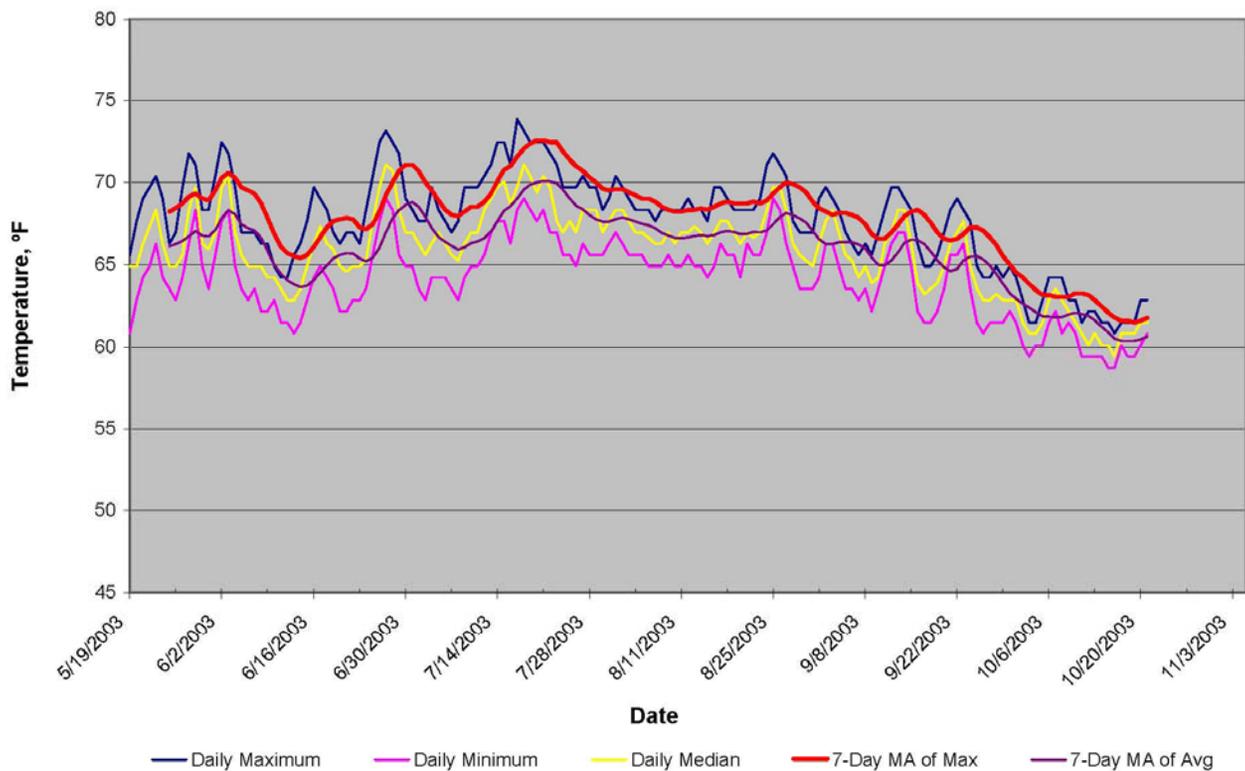




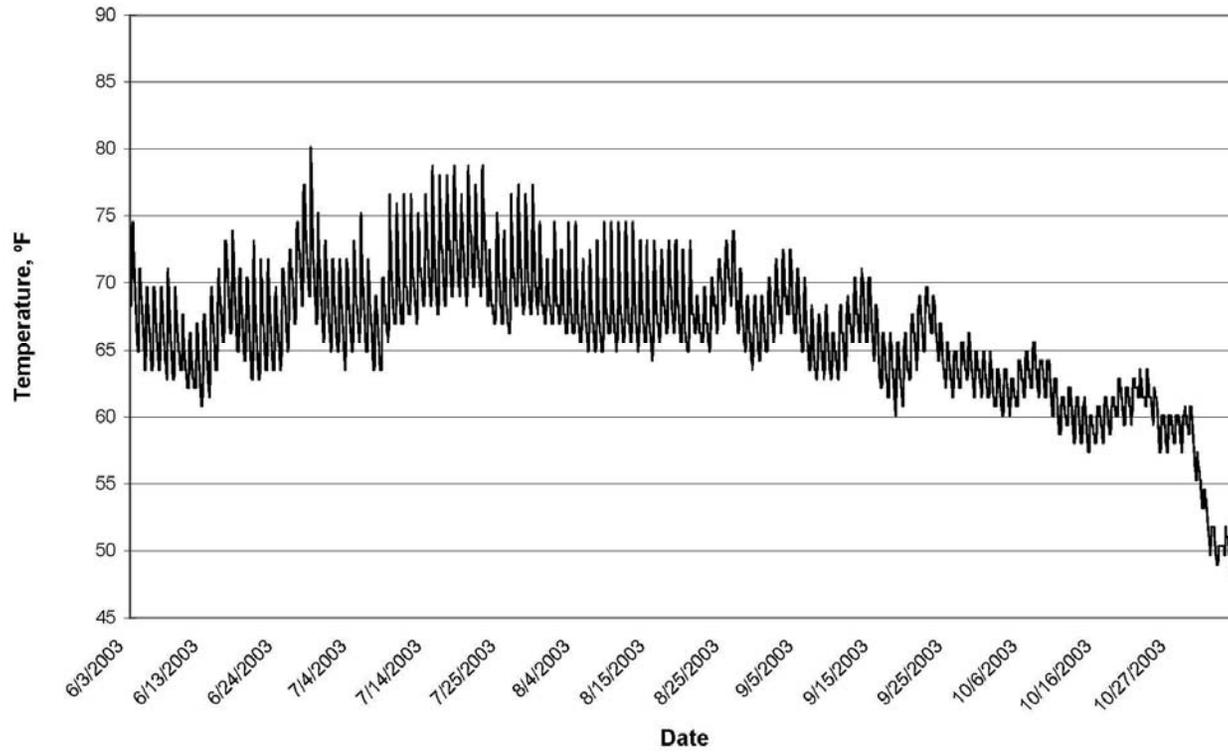
Suisun Creek 1 - 2003
Daily Range in Water Temperature

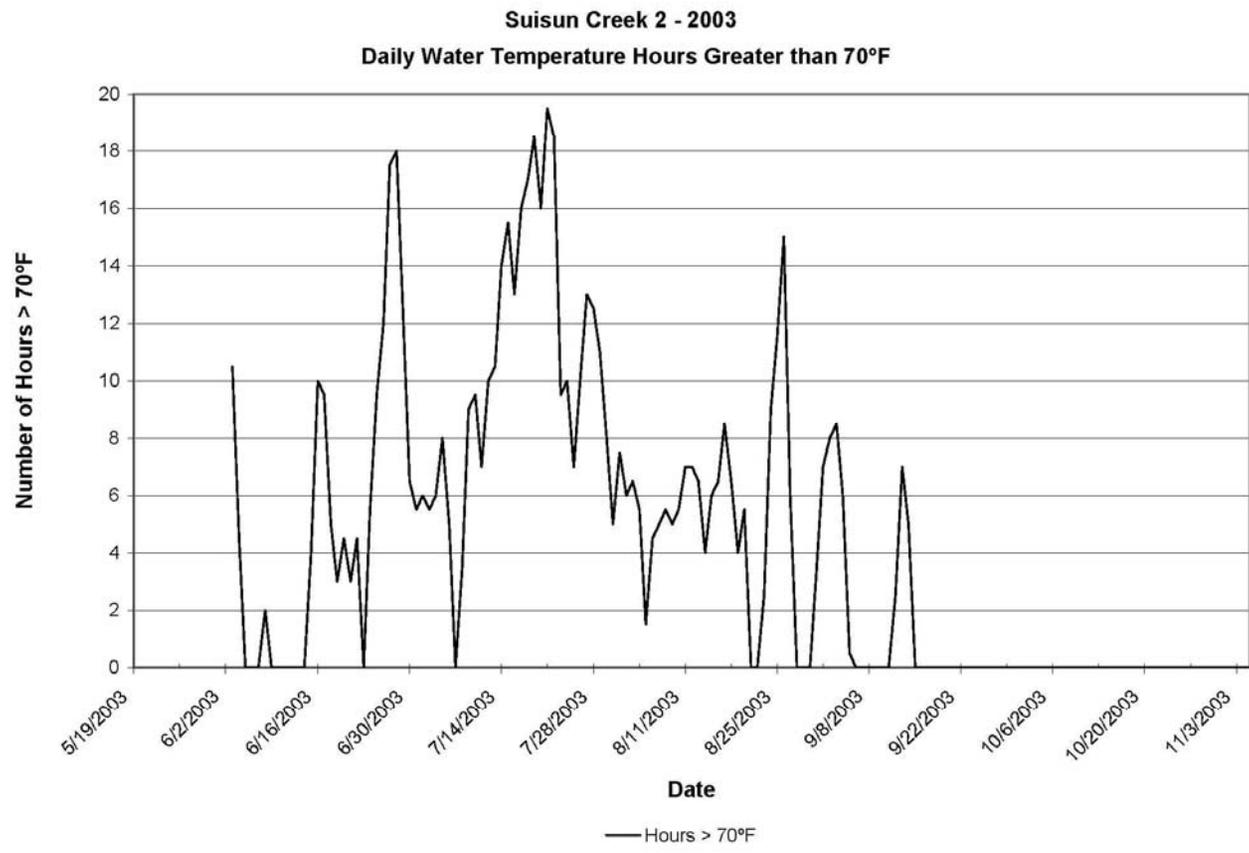


**Suisun Creek 1 - 2003
Daily Water Temperature Summary**

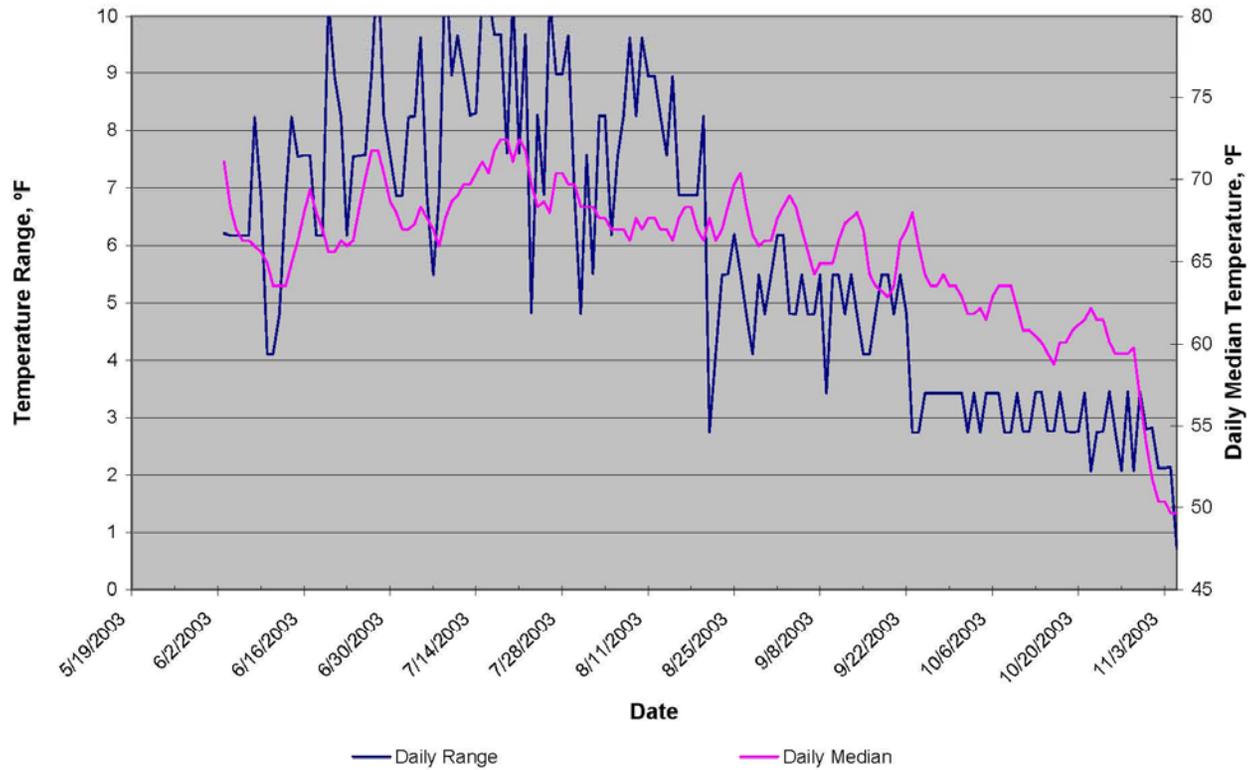


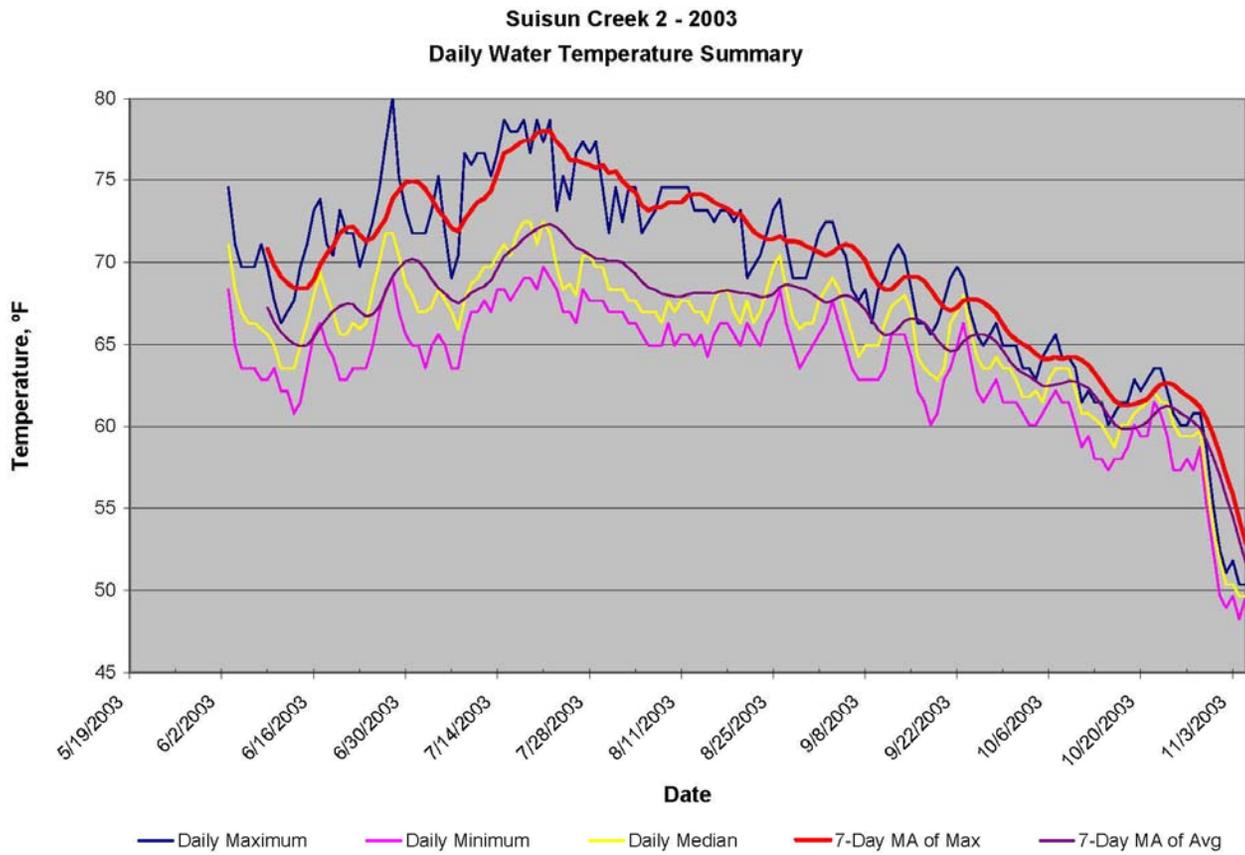
Suisun Creek 2: June - November 2003



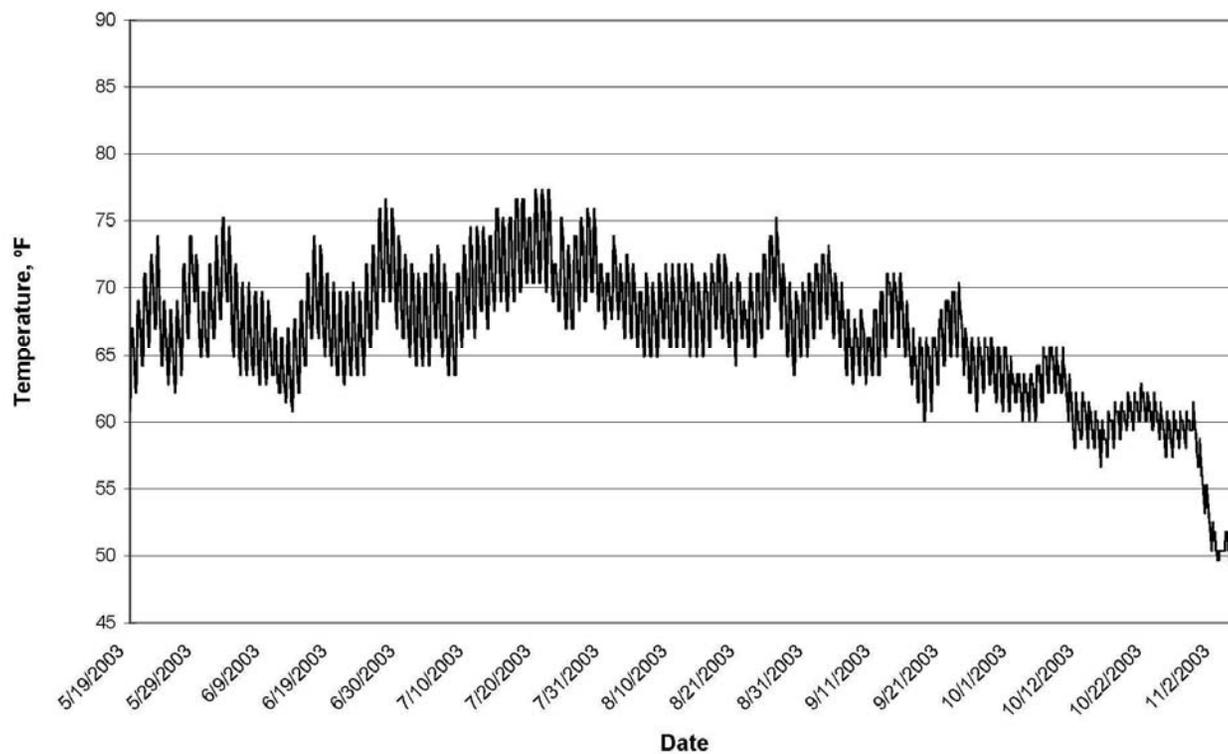


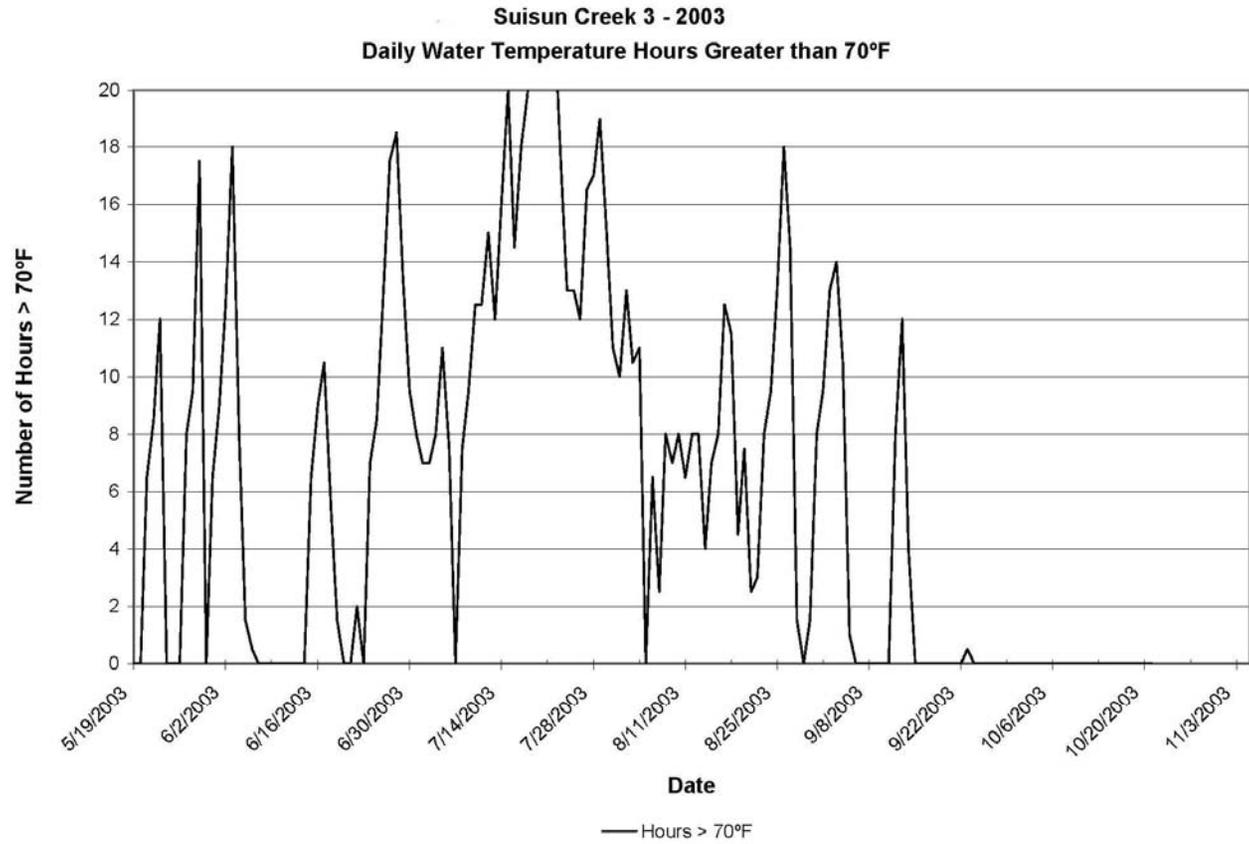
Suisun Creek 2 - 2003
Daily Range in Water Temperature



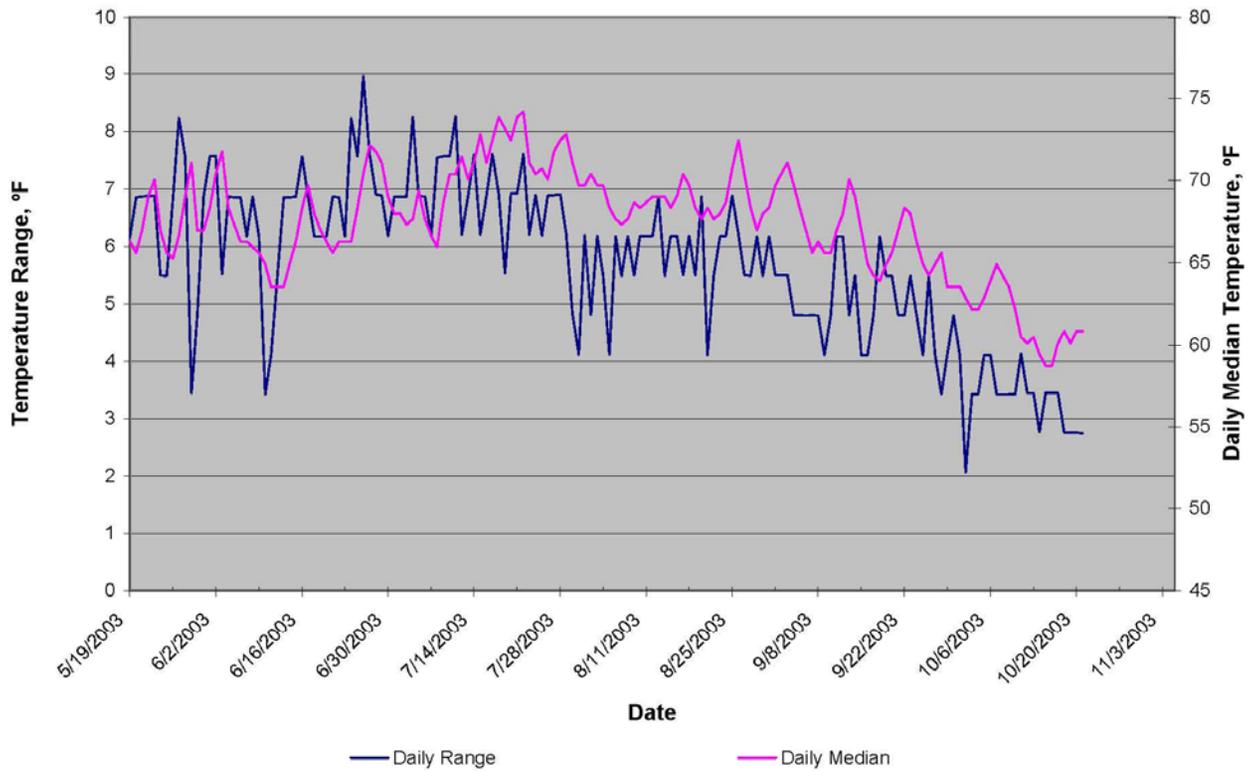


Suisun Creek 3: May - November 2003

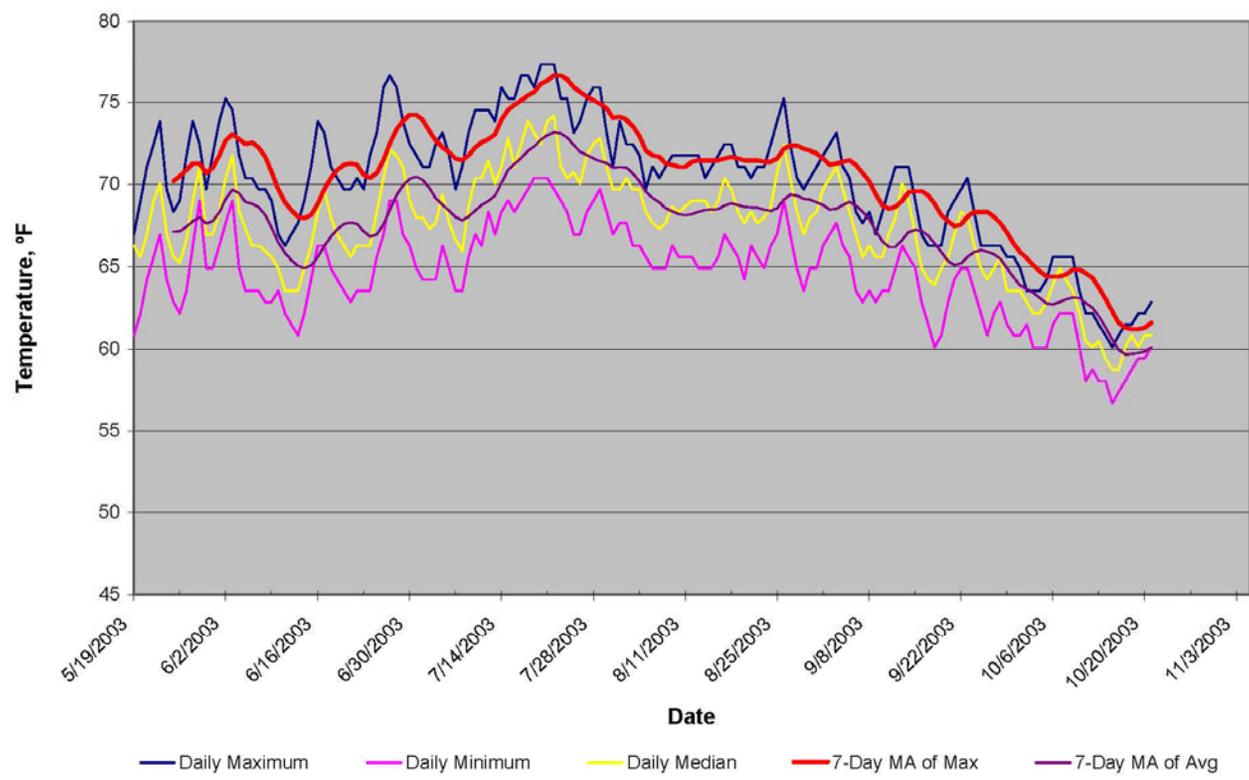




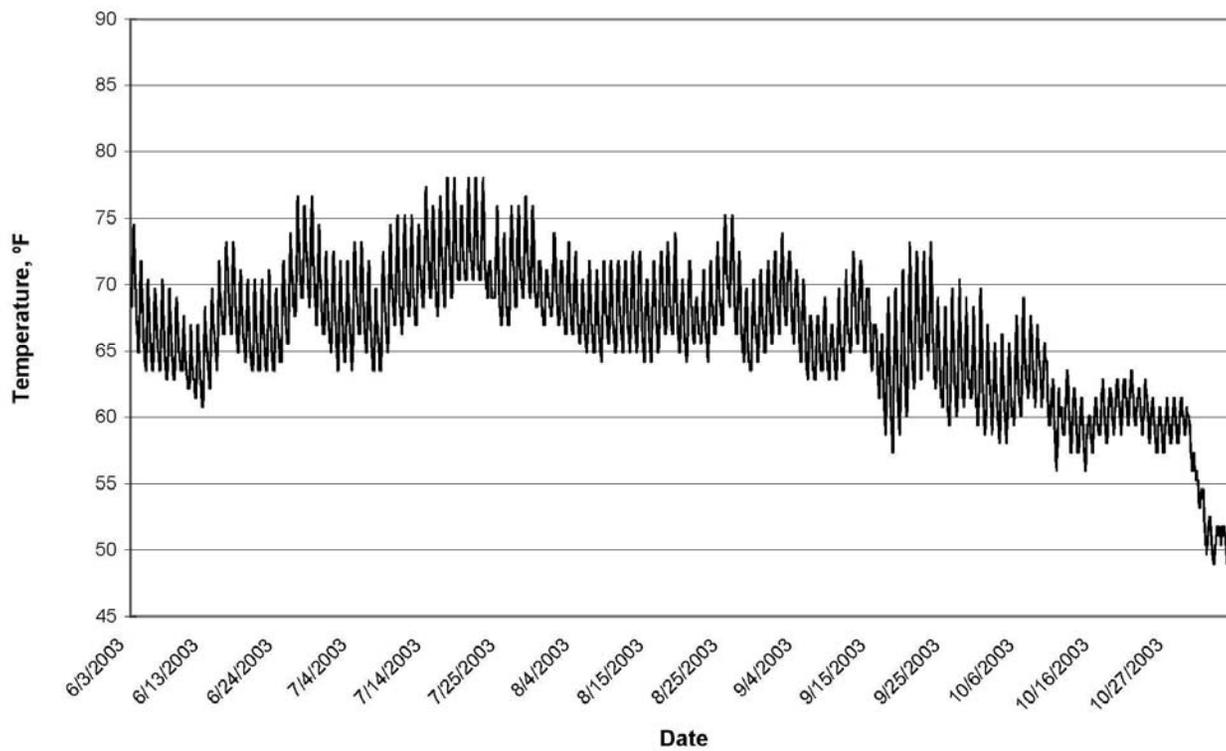
Suisun Creek 3 - 2003
Daily Range in Water Temperature

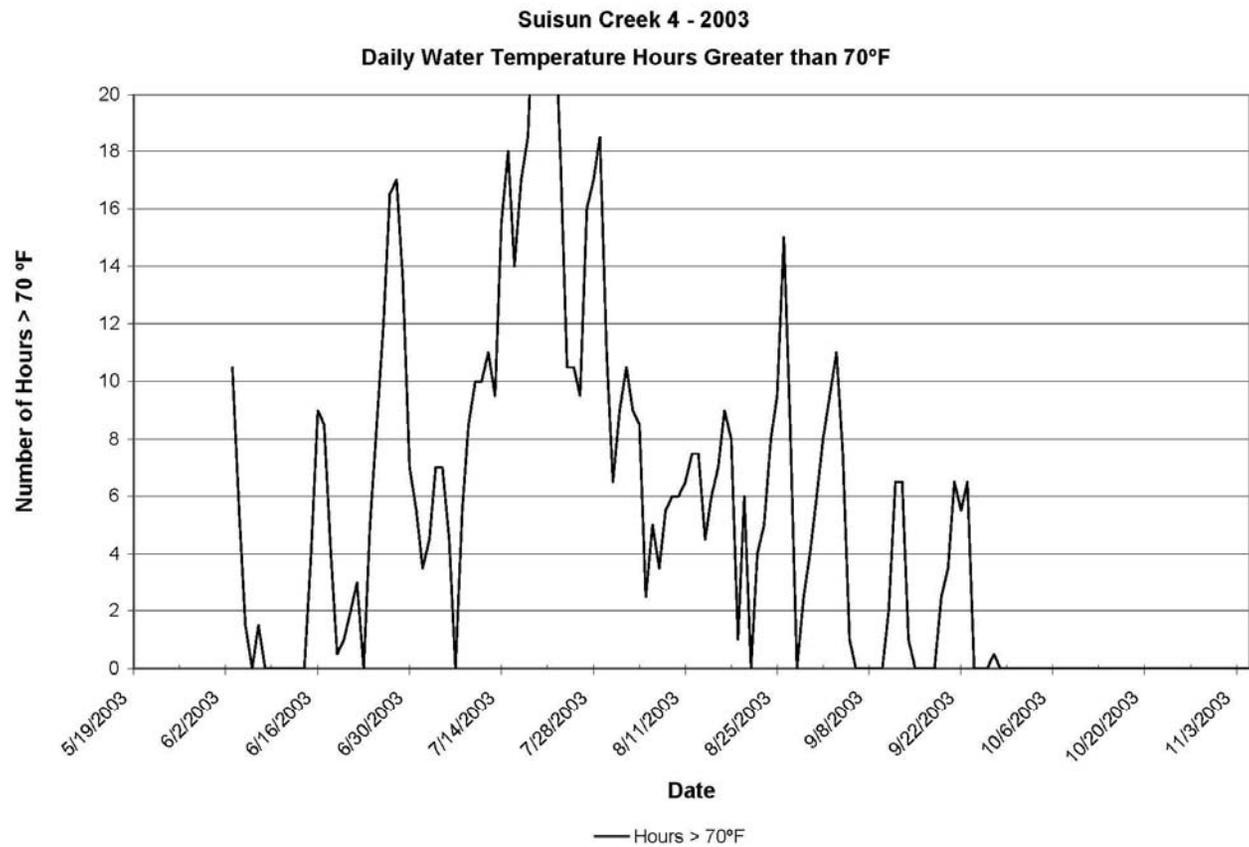


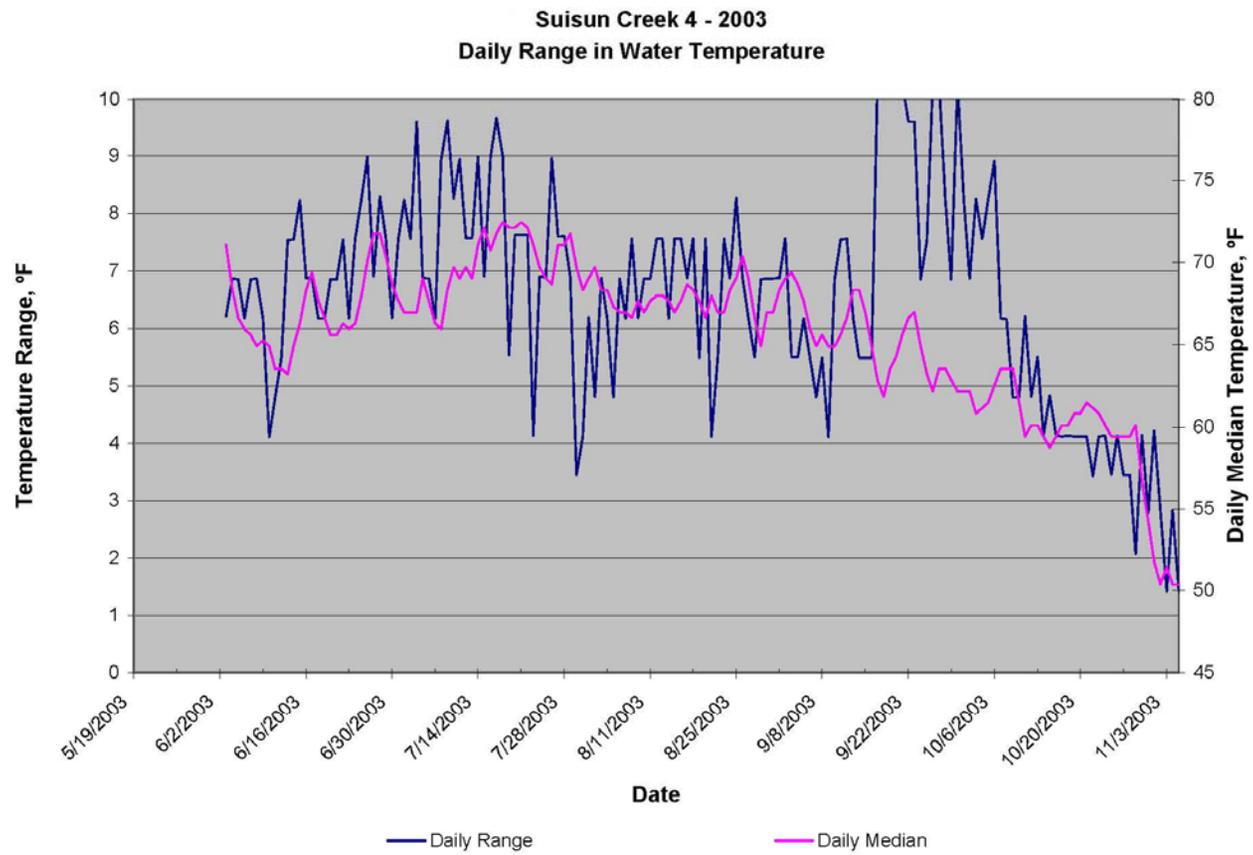
Suisun Creek 3 - 2003
Daily Water Temperature Summary



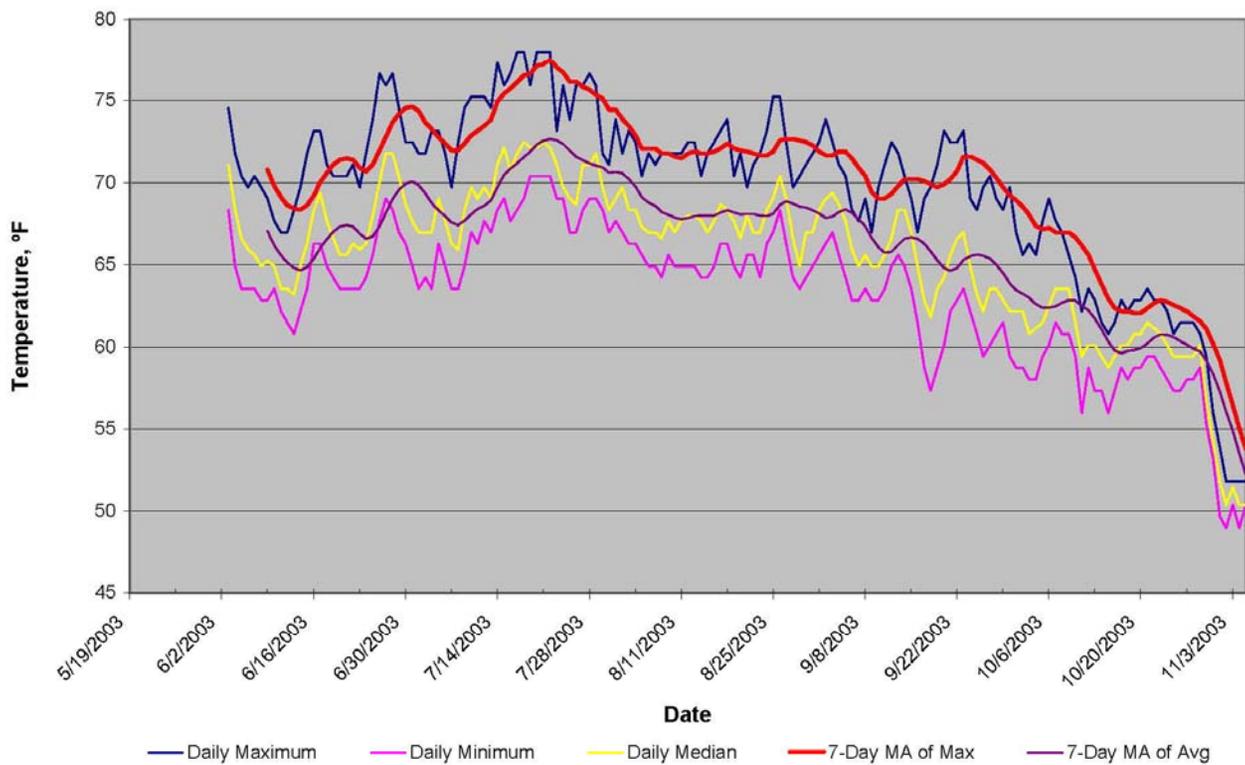
Suisun Creek 4: June - November 2003

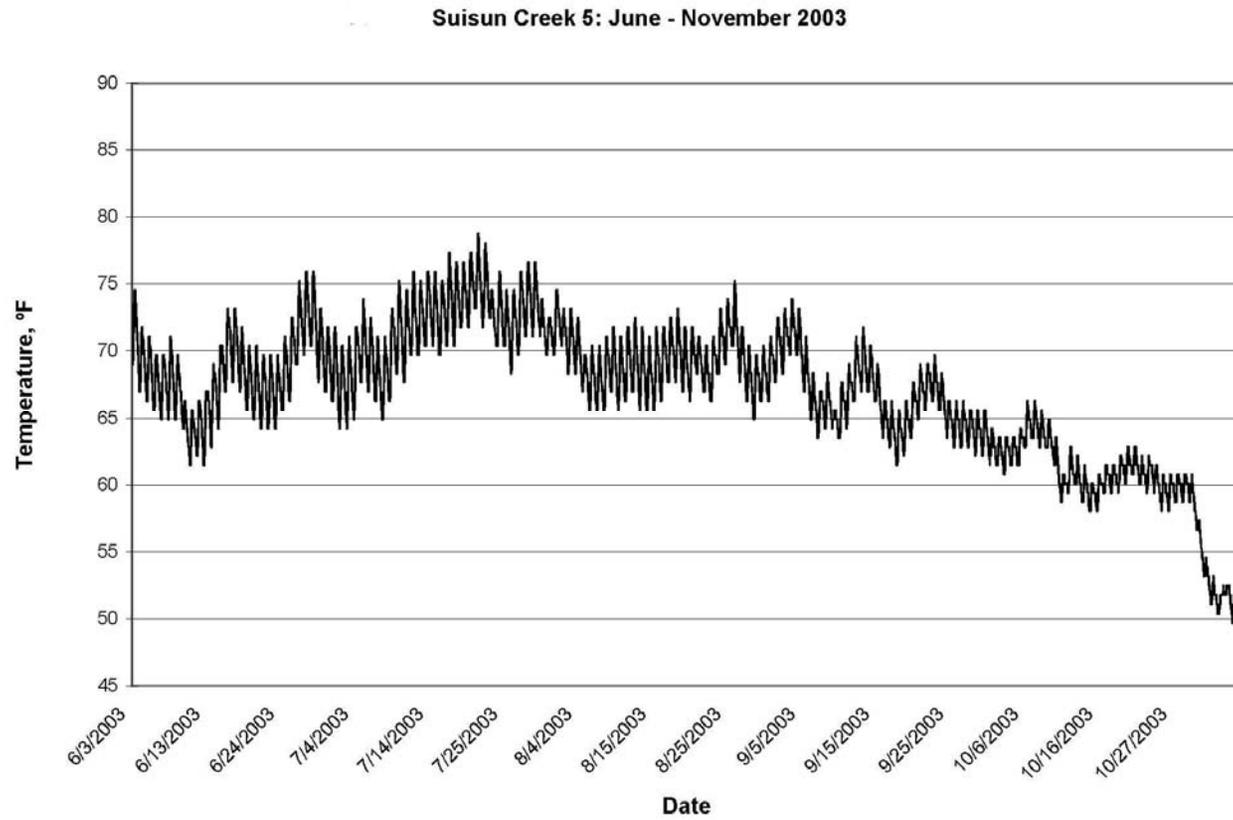


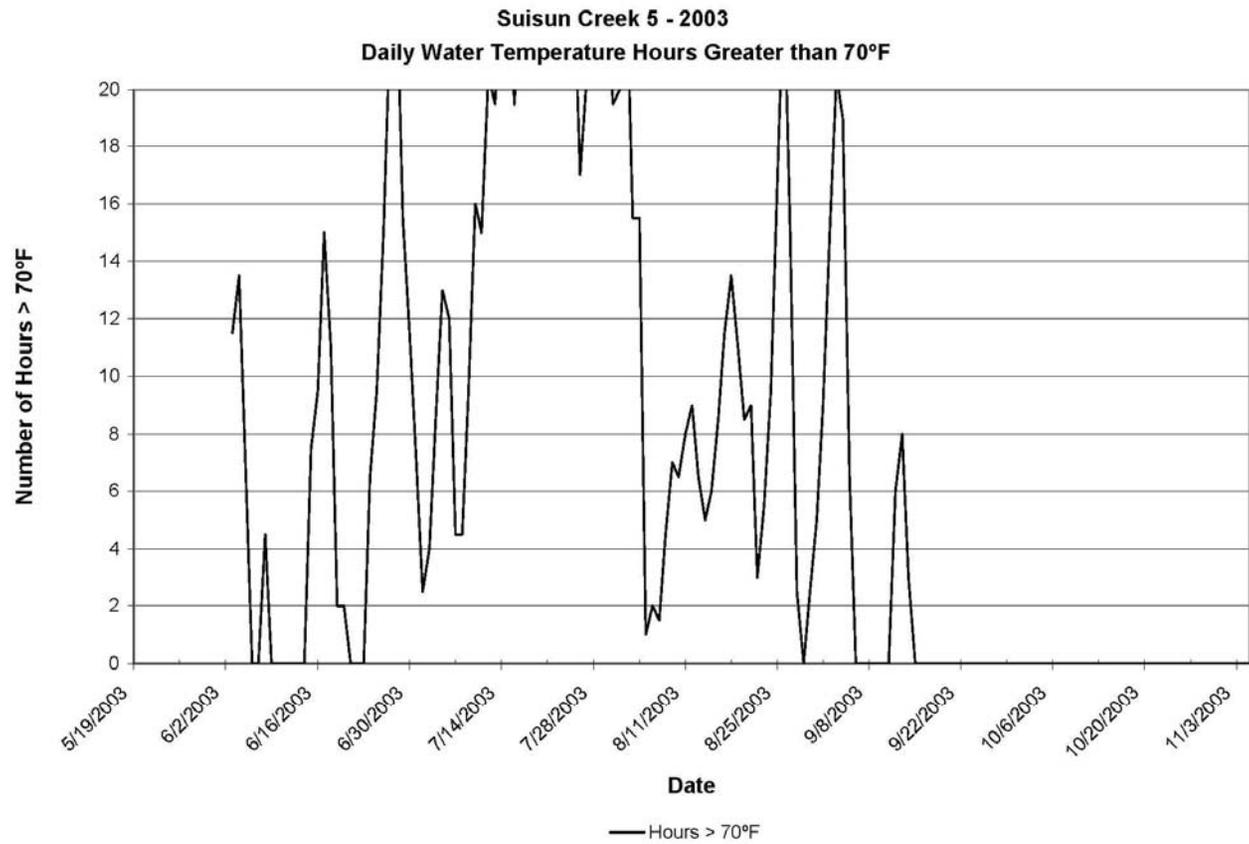




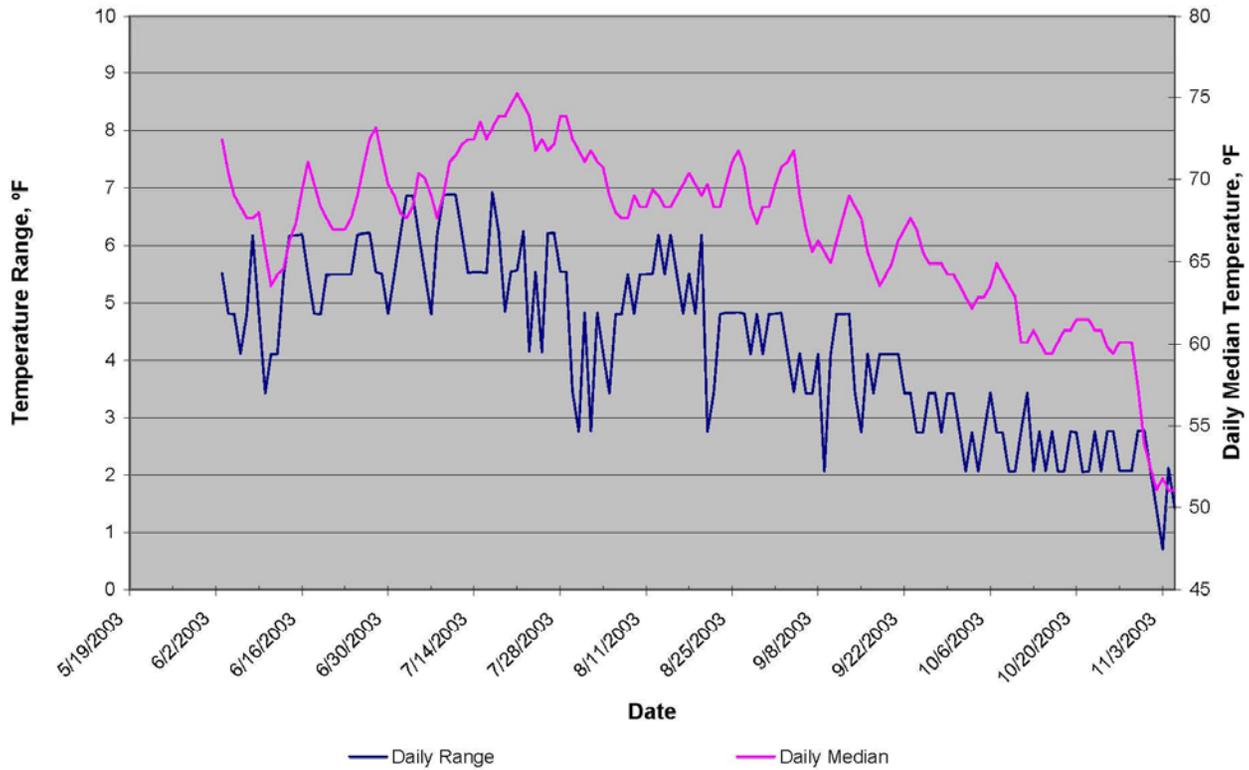
**Suisun Creek 4 - 2003
Daily Water Temperature Summary**



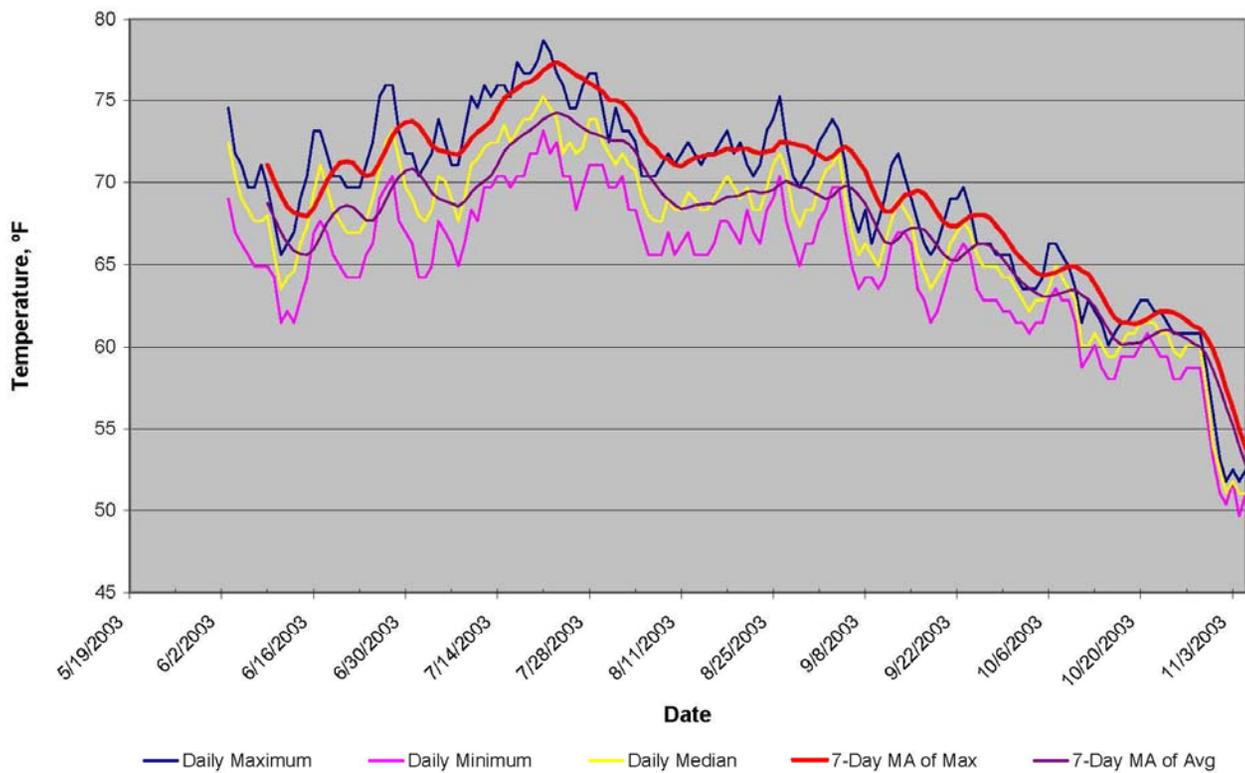




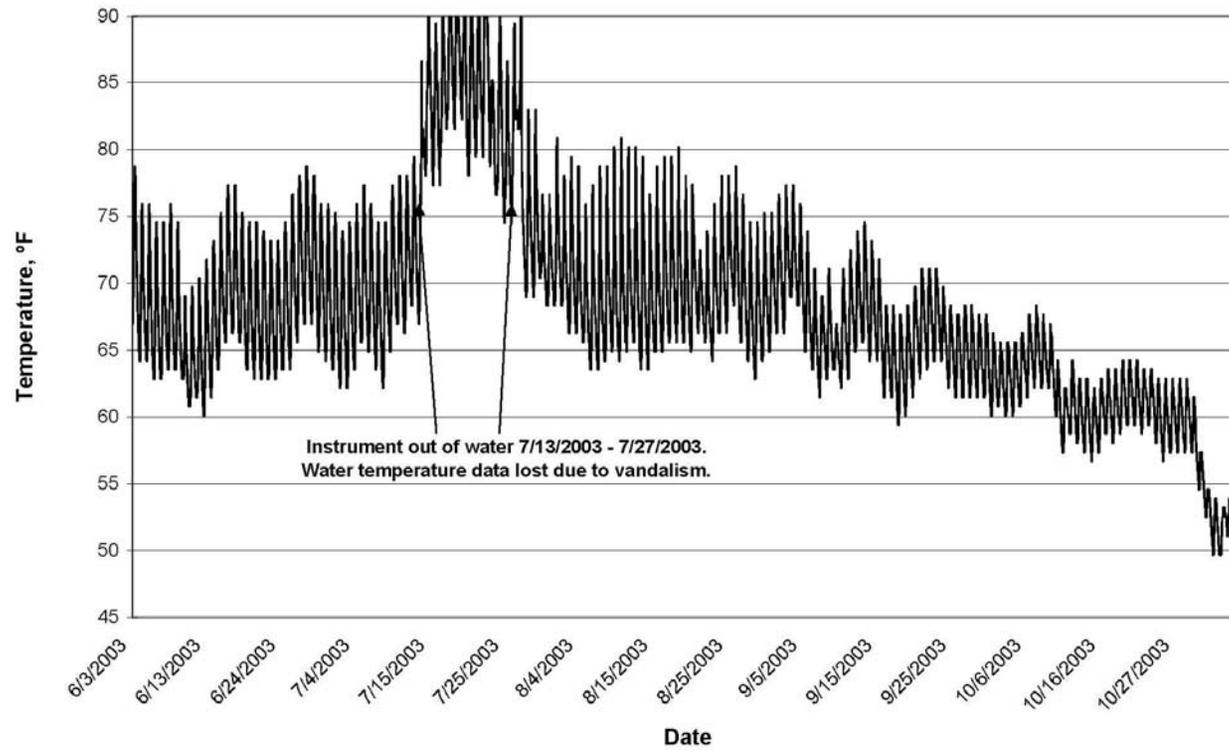
Suisun Creek 5 - 2003
Daily Range in Water Temperature

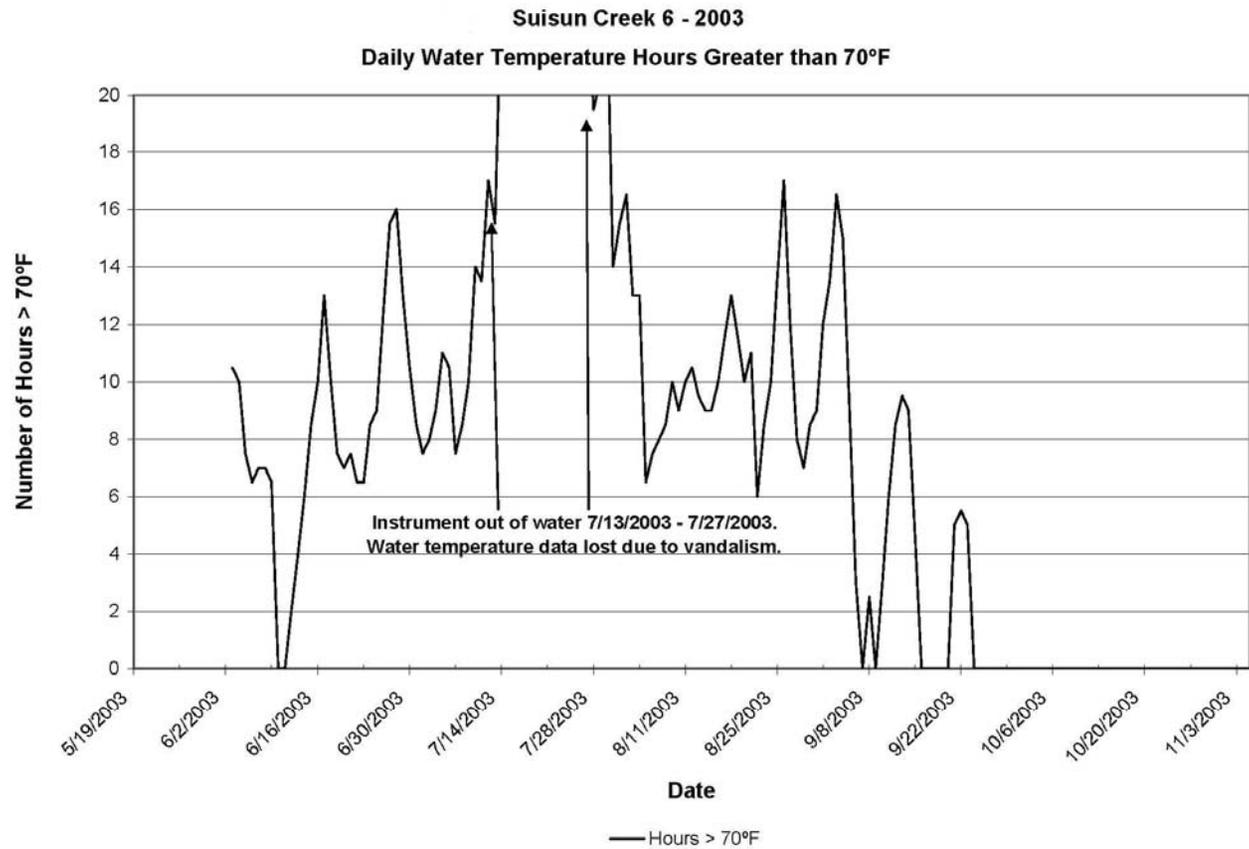


**Suisun Creek 5 - 2003
Daily Water Temperature Summary**

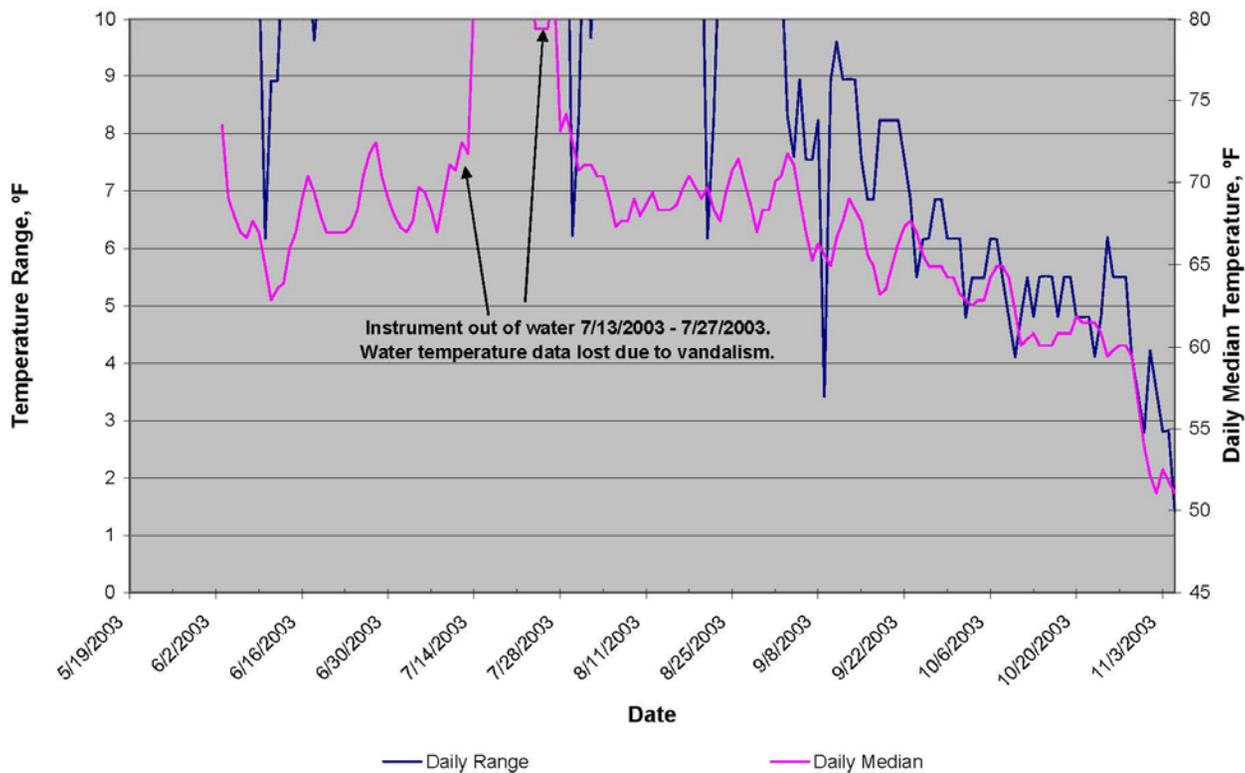


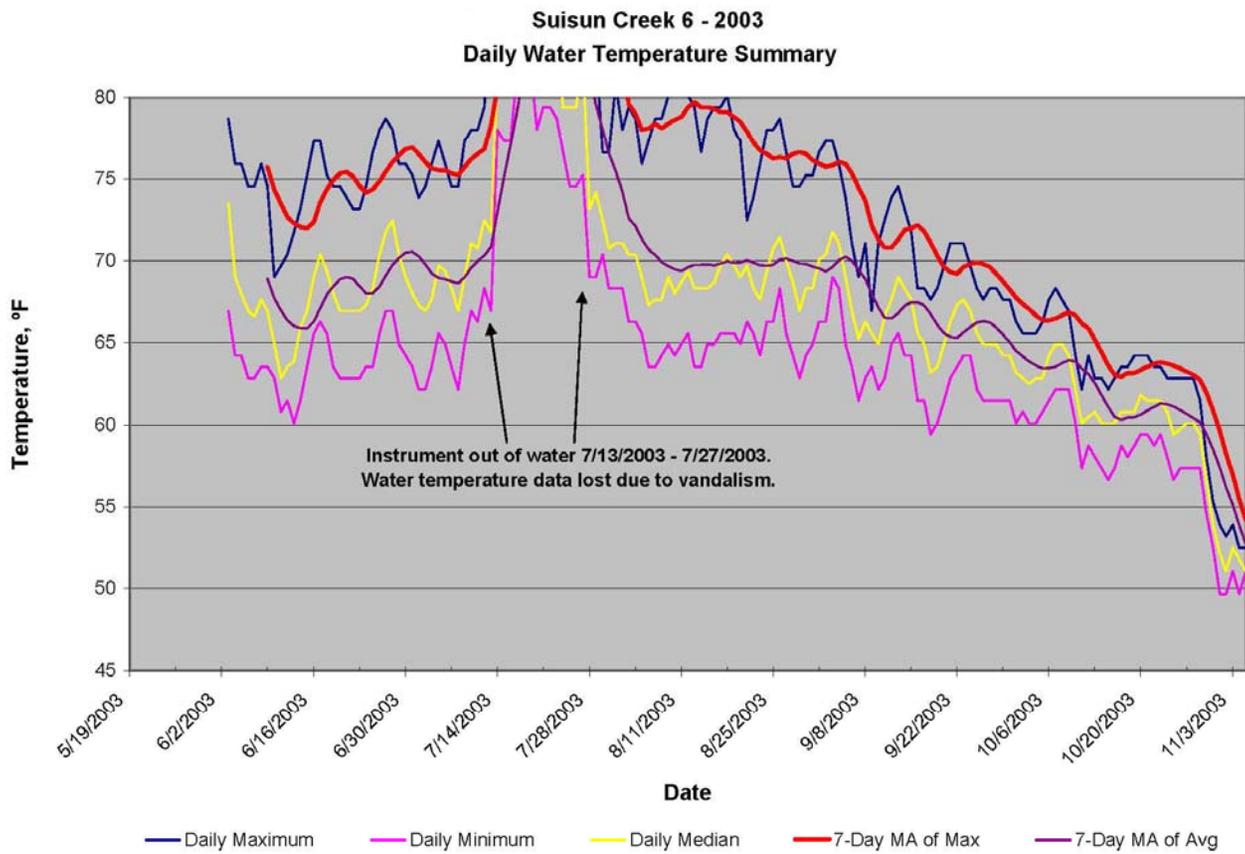
Suisun Creek 6: June - November 2003



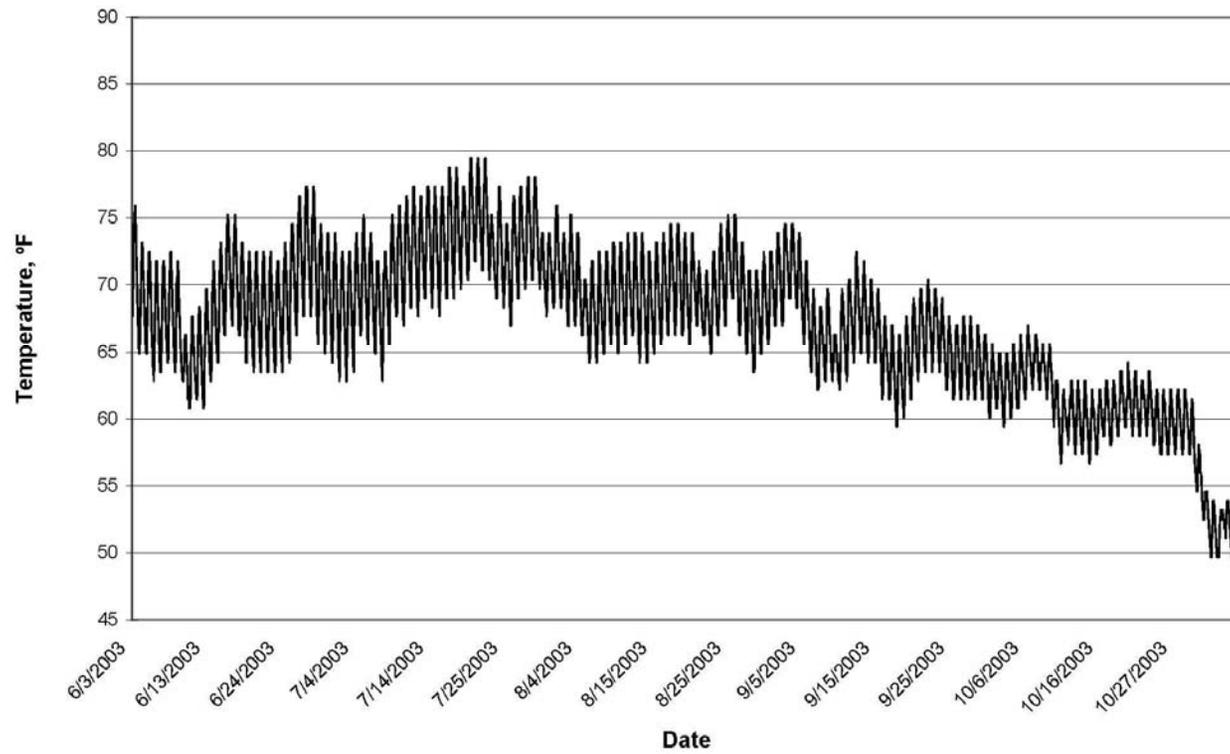


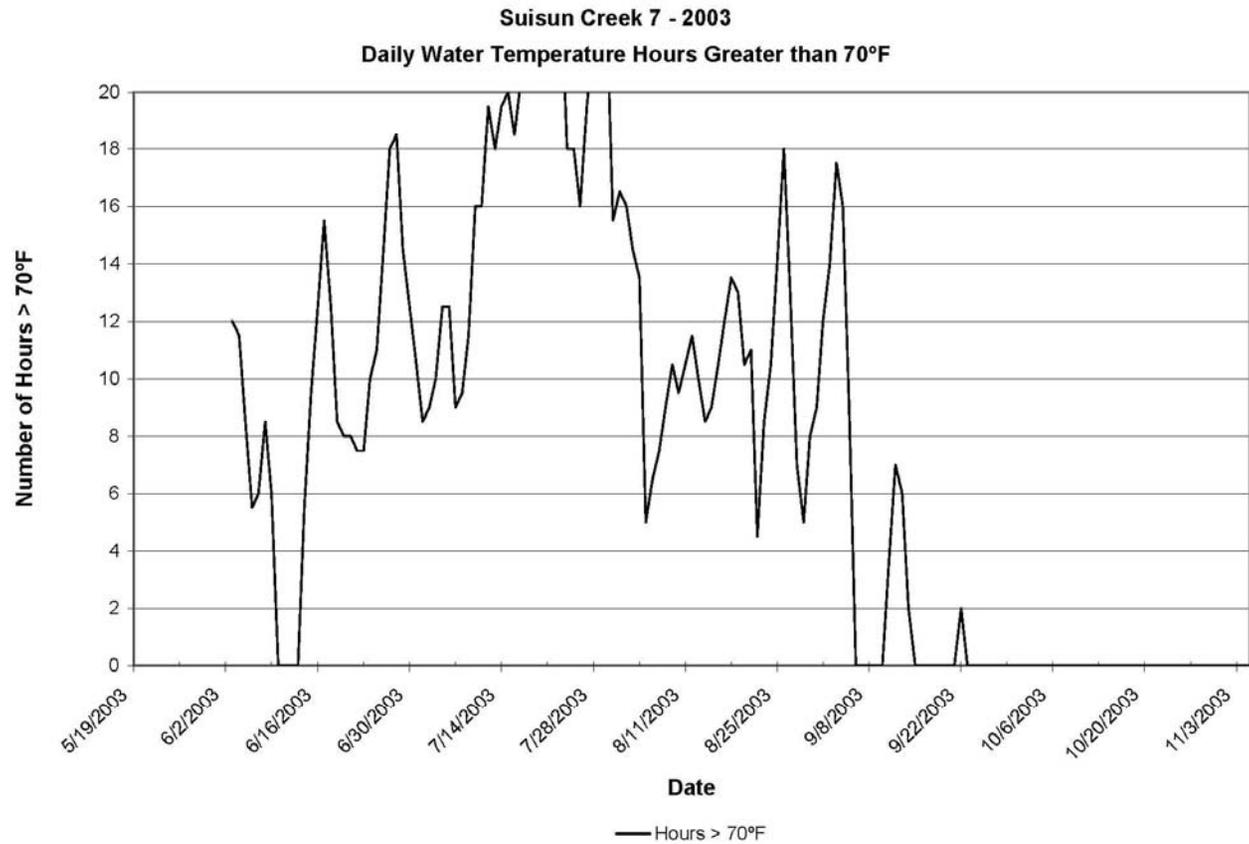
Suisun Creek 6 - 2003
 Daily Range in Water Temperature



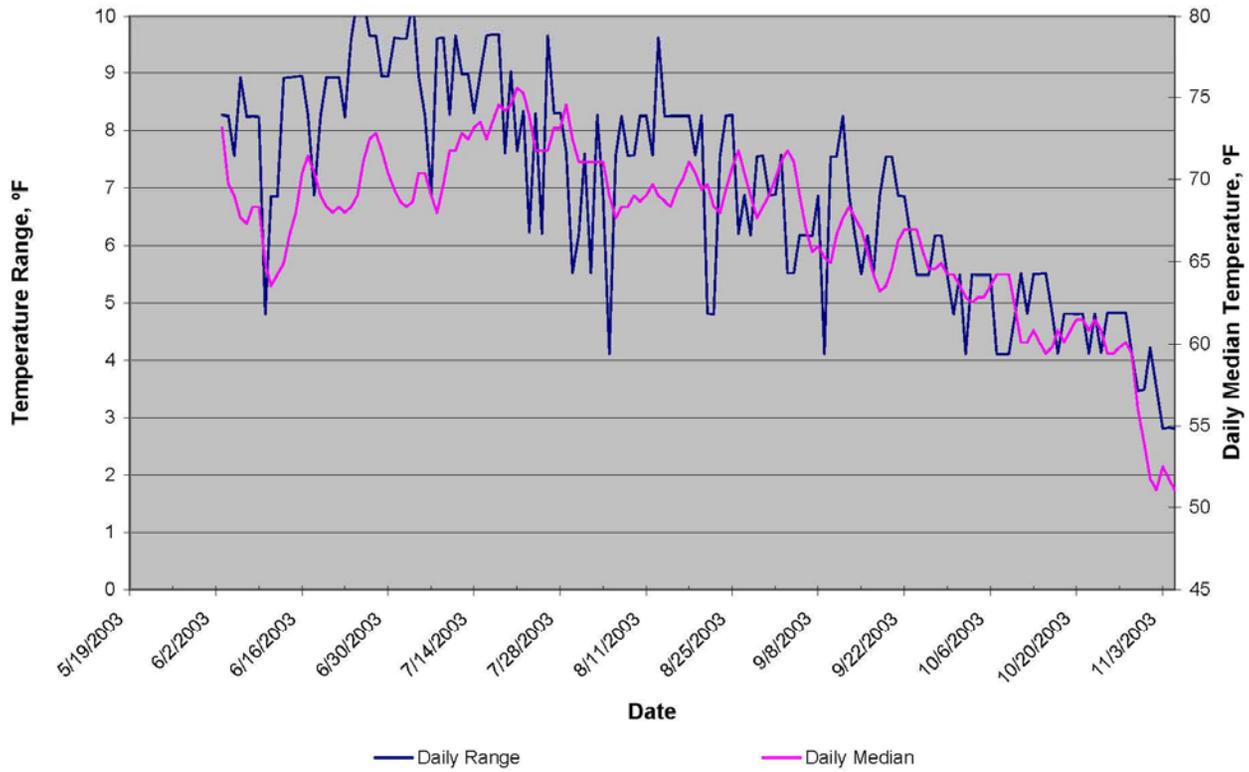


Suisun Creek 7: June - November 2003

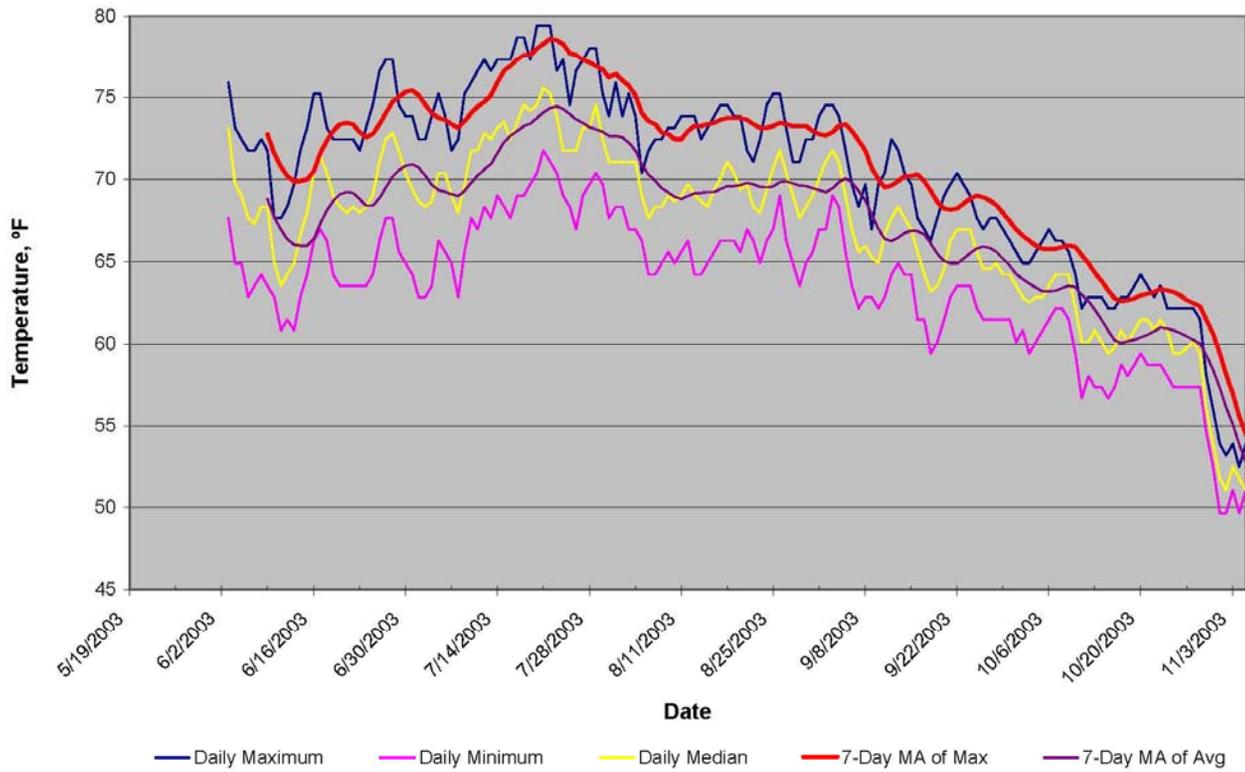




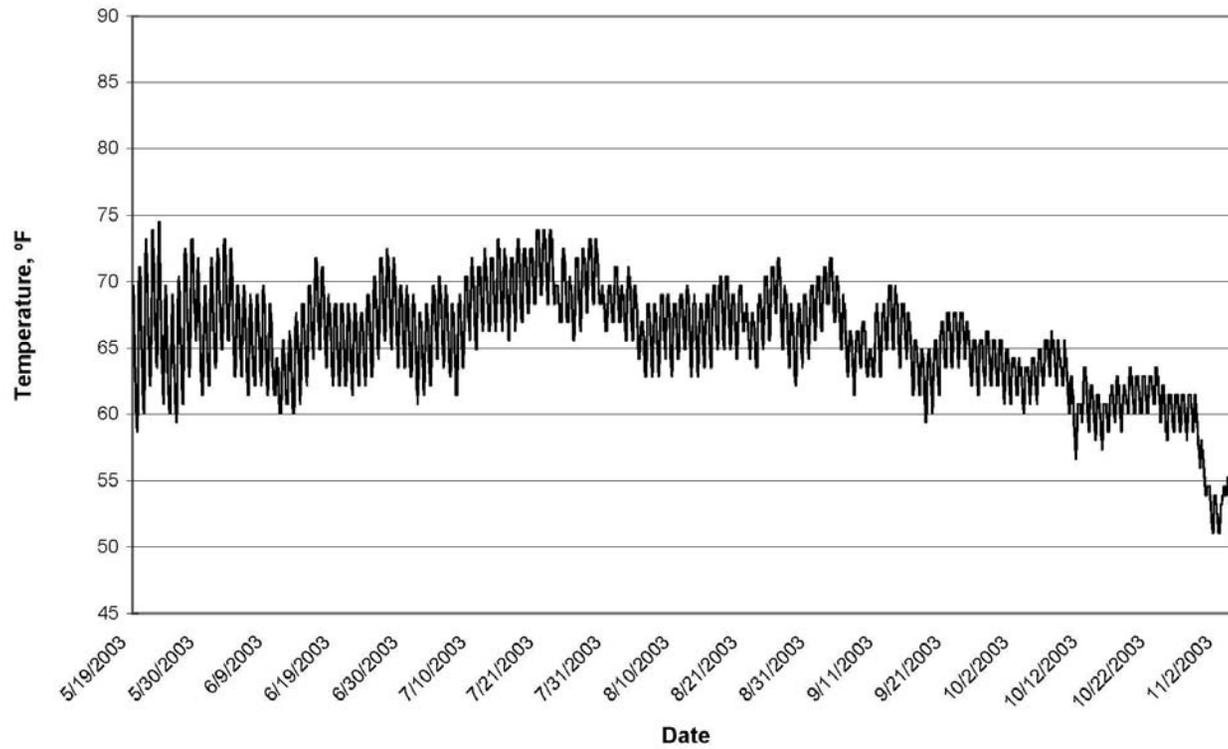
Suisun Creek 7 - 2003
Daily Range in Water Temperature



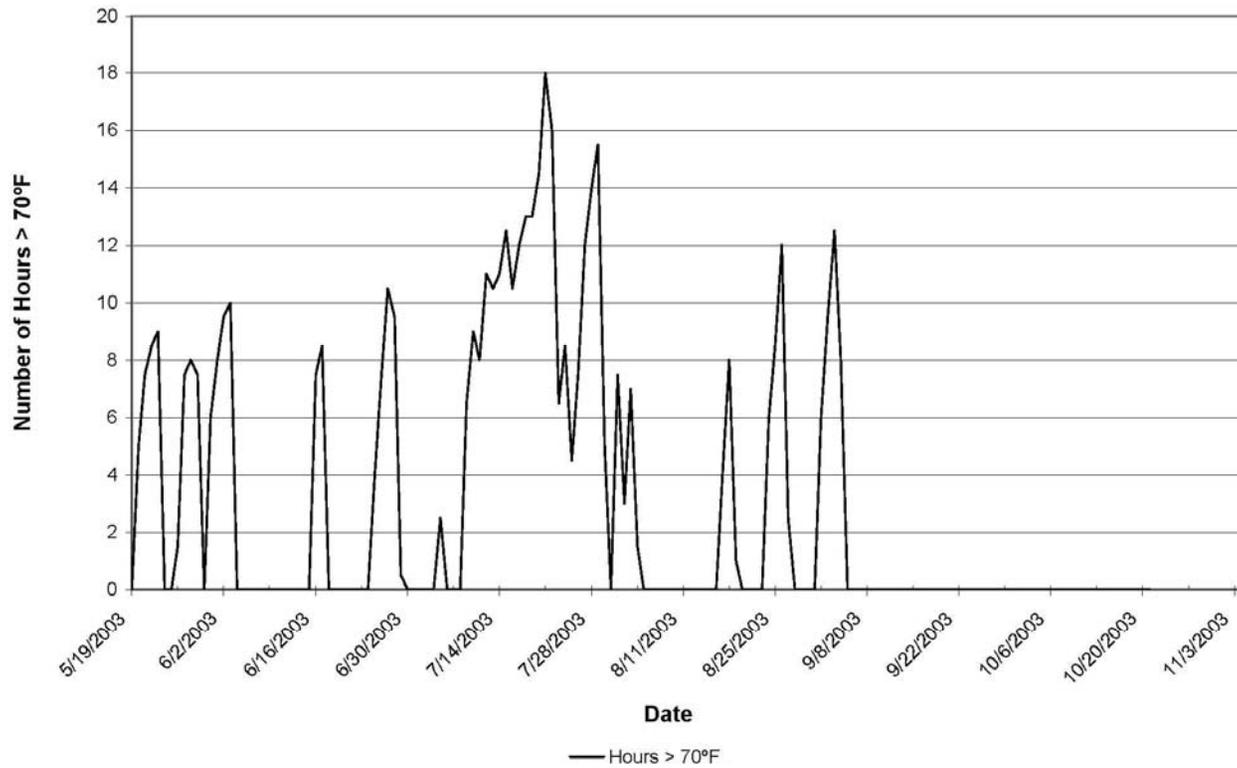
**Suisun Creek 7 - 2003
Daily Water Temperature Summary**



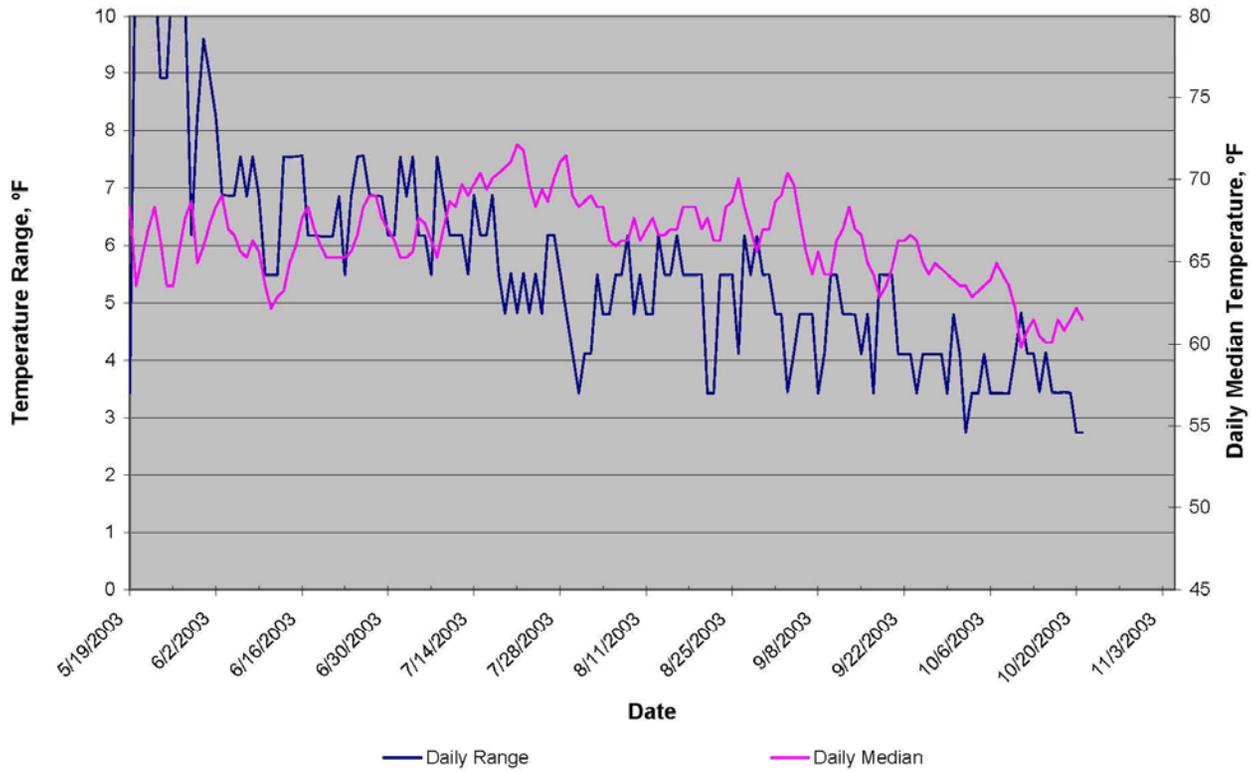
Suisun Creek 8: May - November 2003



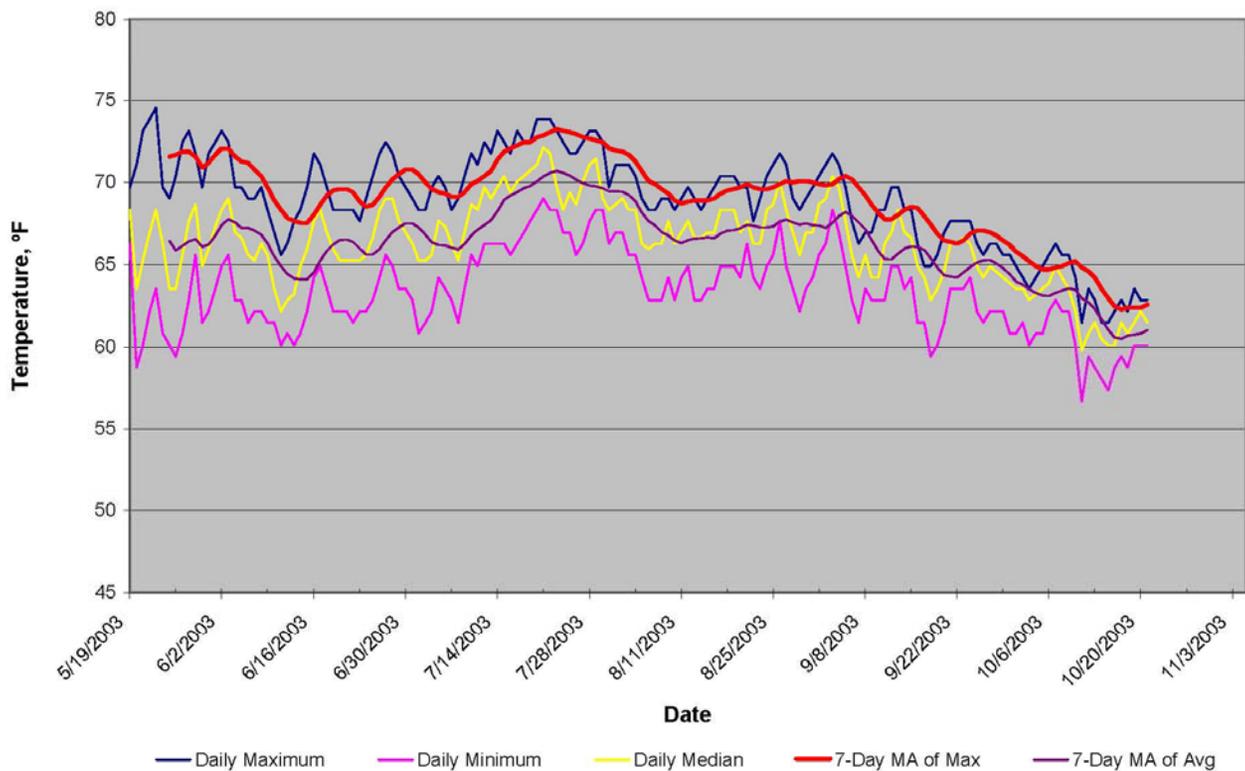
Suisun Creek 8 - 2003
Daily Water Temperature Hours Greater than 70°F



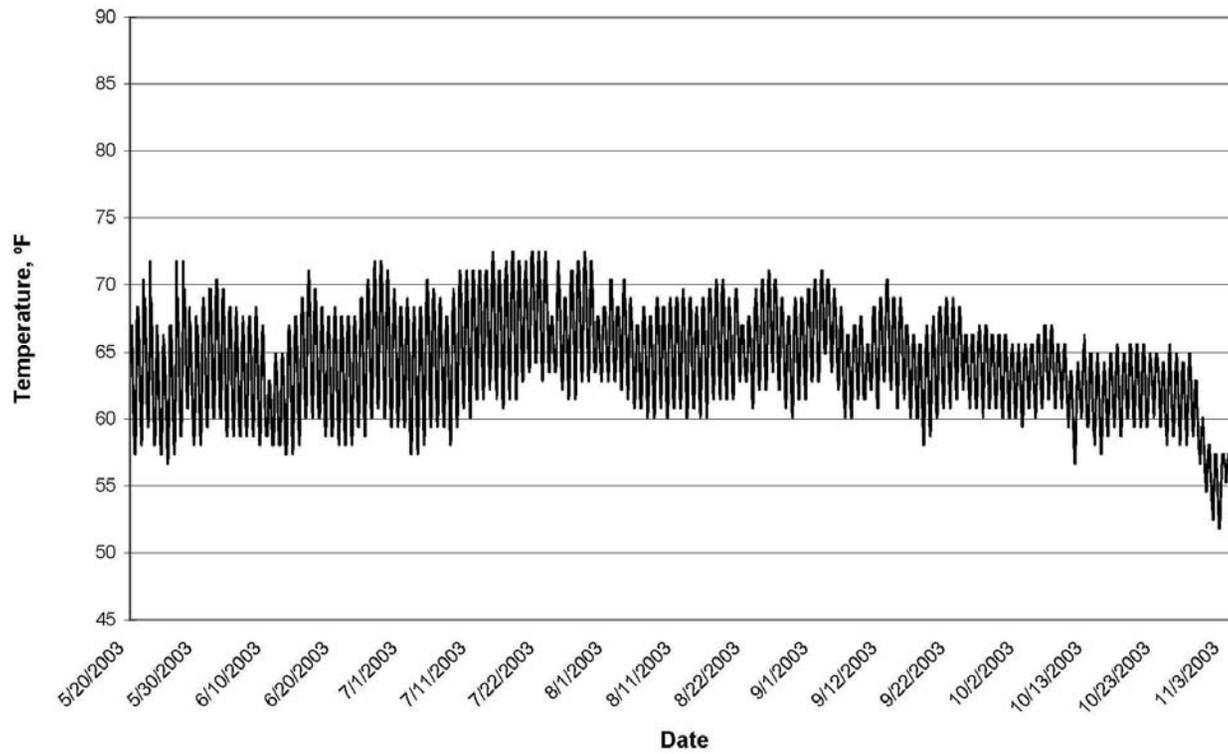
Suisun Creek 8 - 2003
Daily Range in Water Temperature

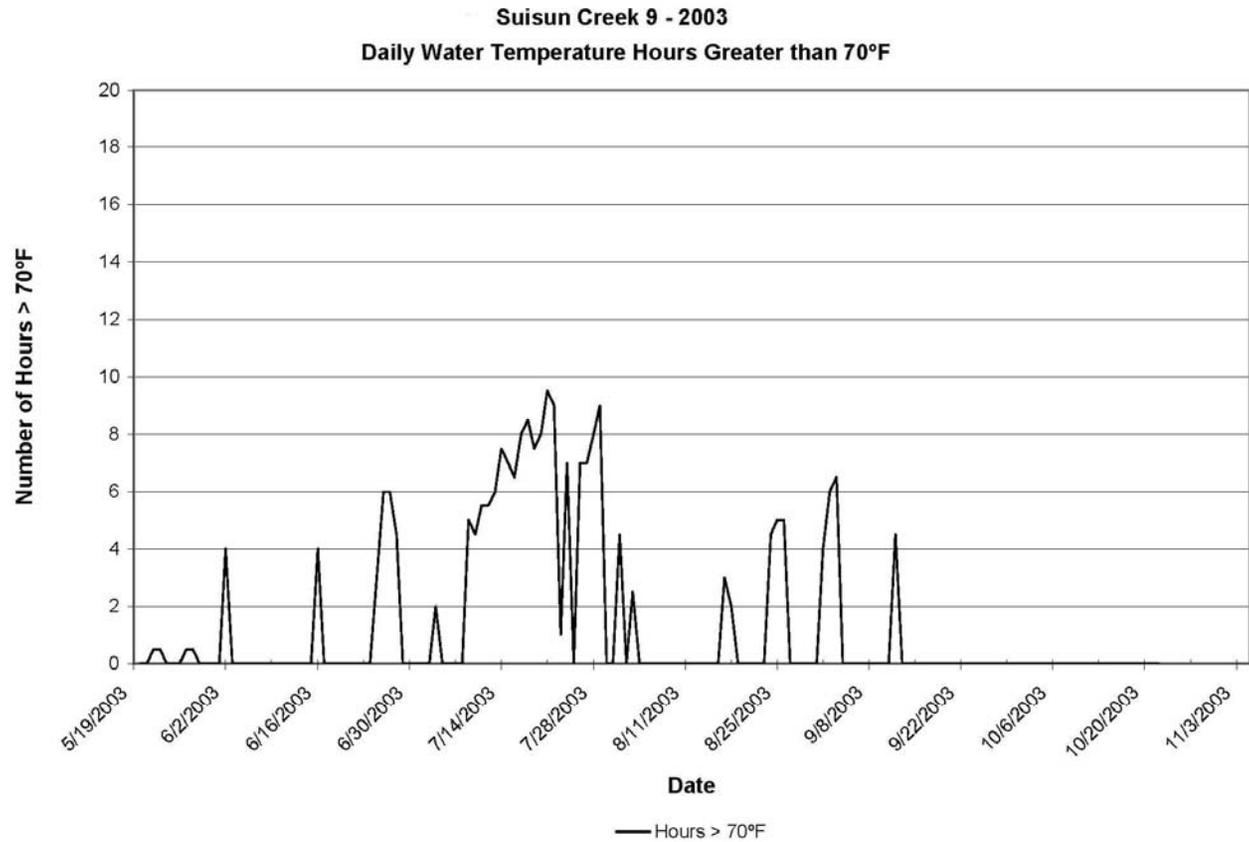


**Suisun Creek 8 - 2003
Daily Water Temperature Summary**

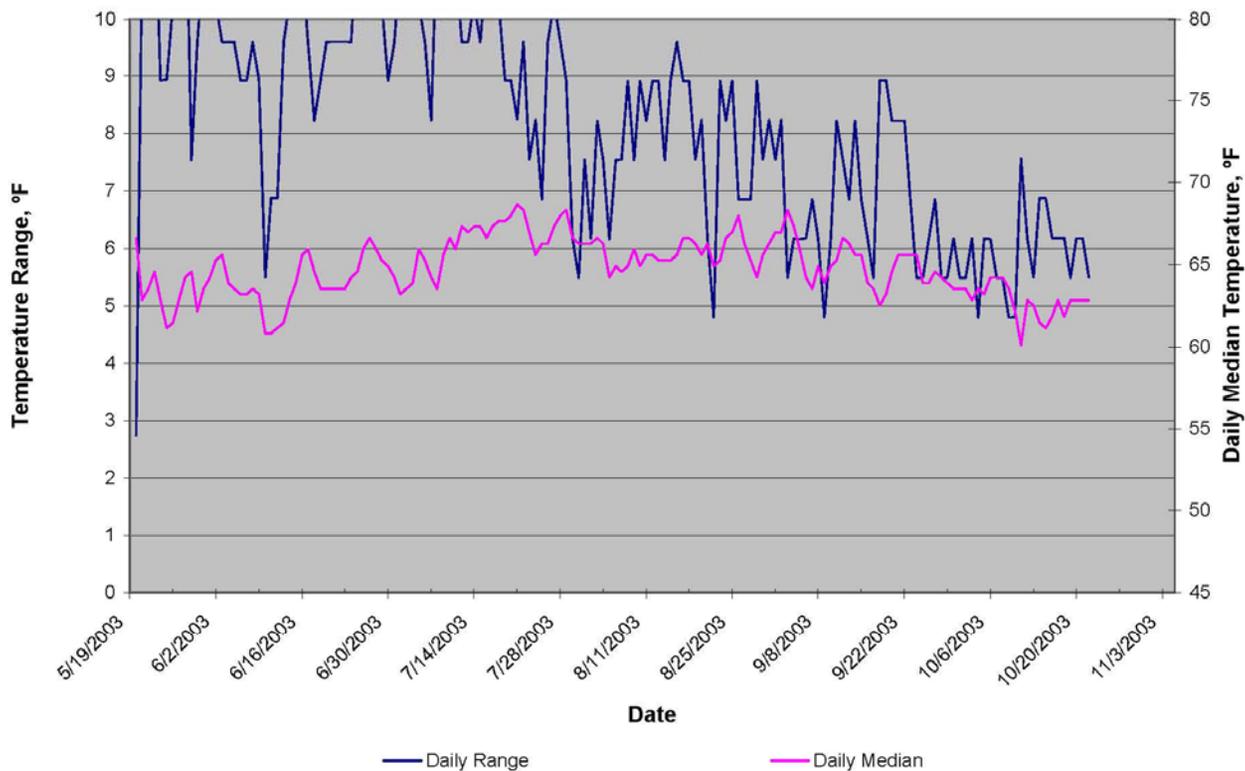


Suisun Creek 9: May - November 2003

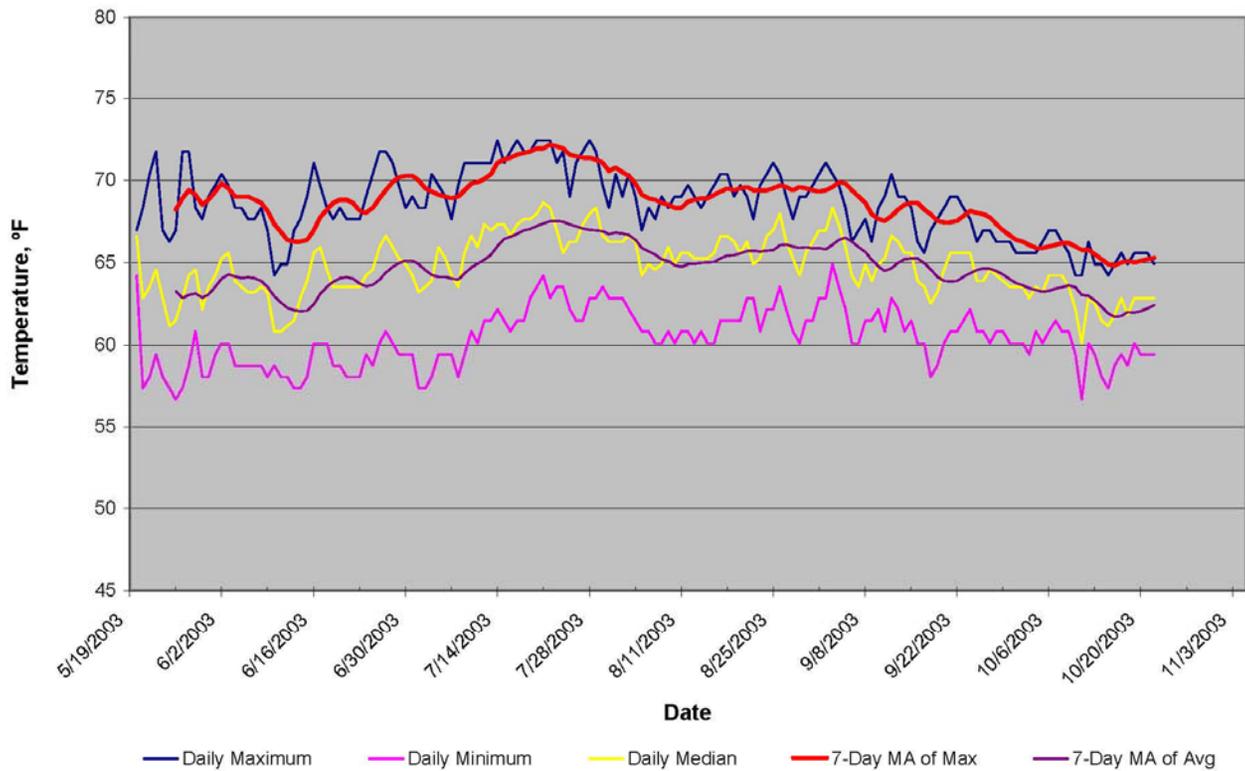




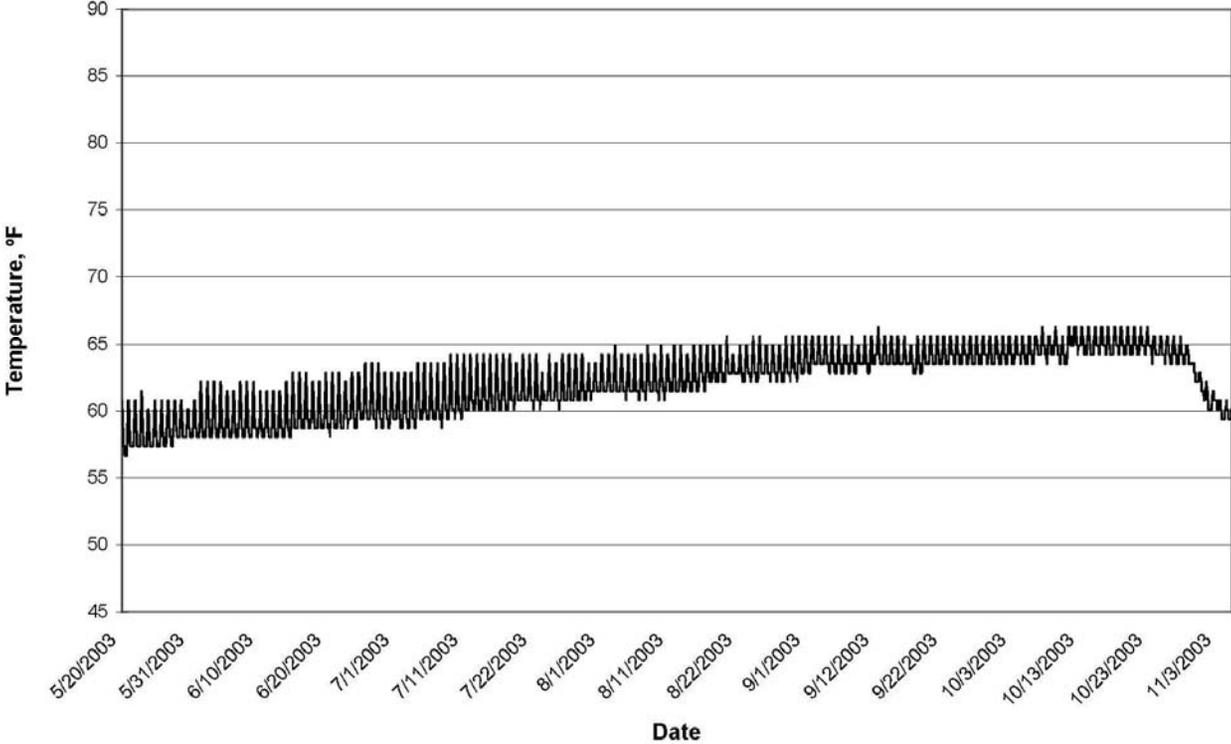
Suisun Creek 9 - 2003
Daily Range in Water Temperature



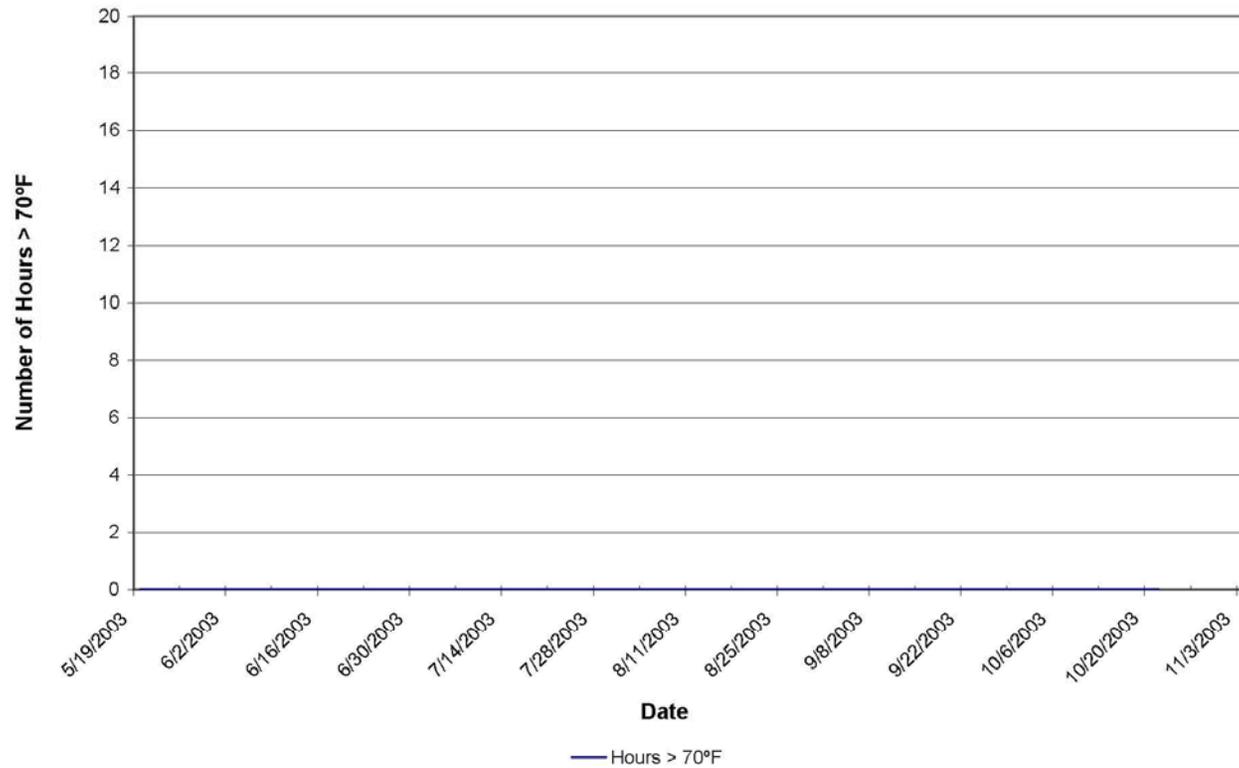
**Suisun Creek 9 - 2003
Daily Water Temperature Summary**



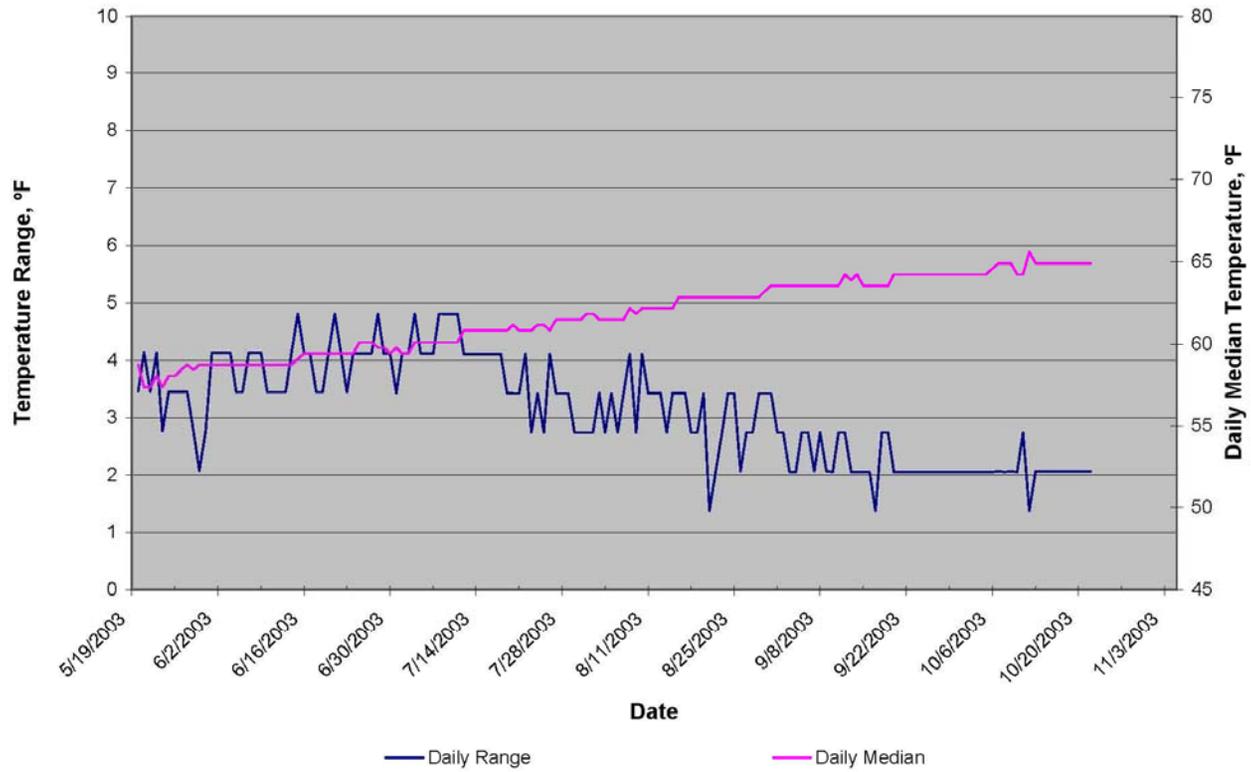
Suisun Creek 10: May - November 2003

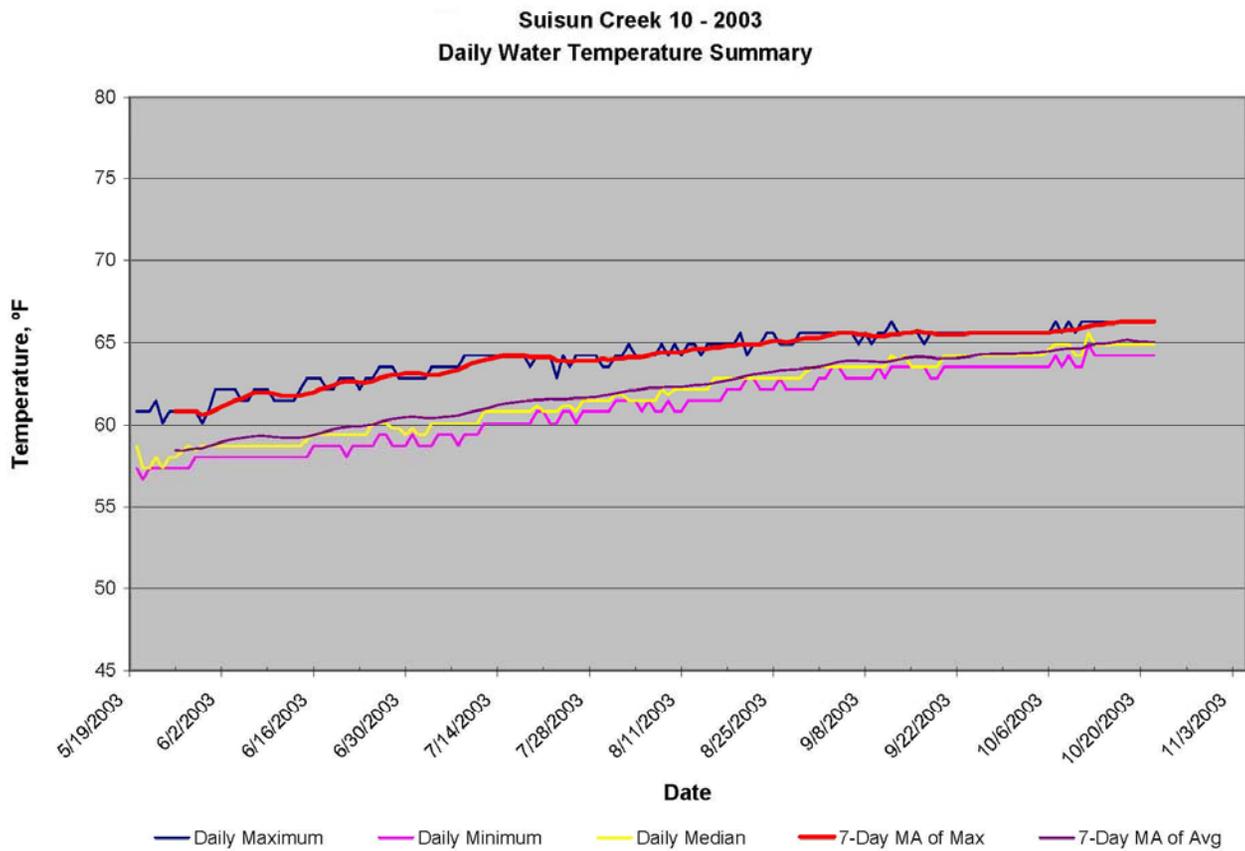


Suisun Creek 10 - 2003
Daily Water Temperature Hours Greater than 70°F

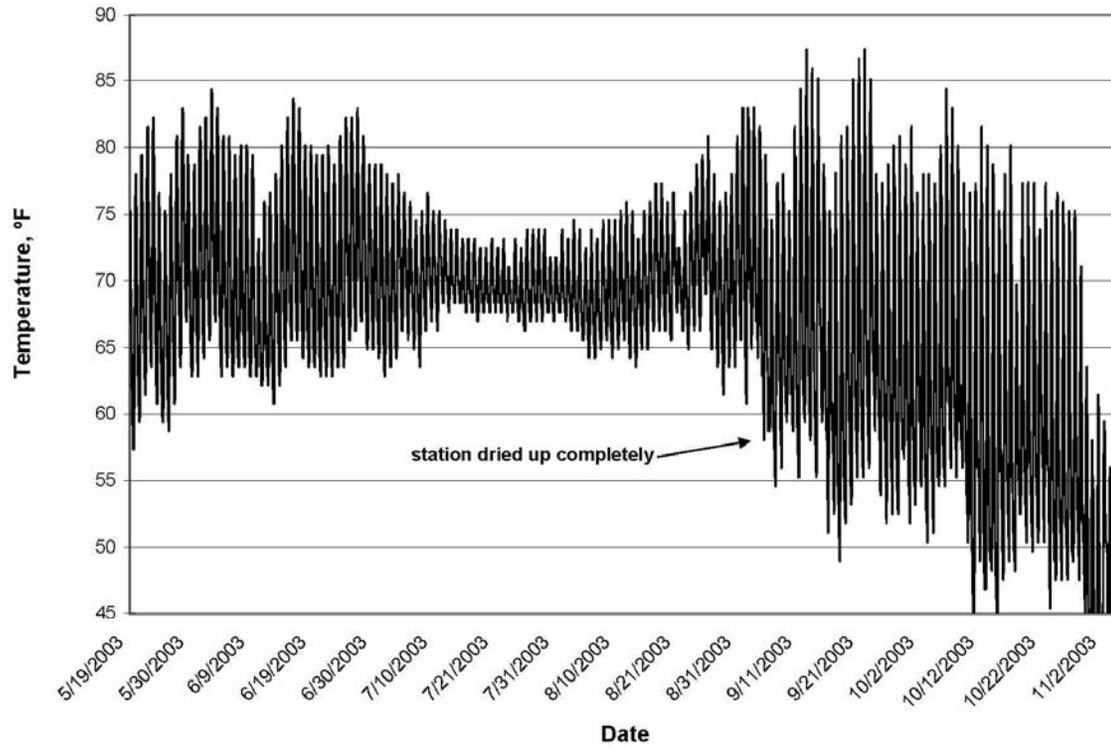


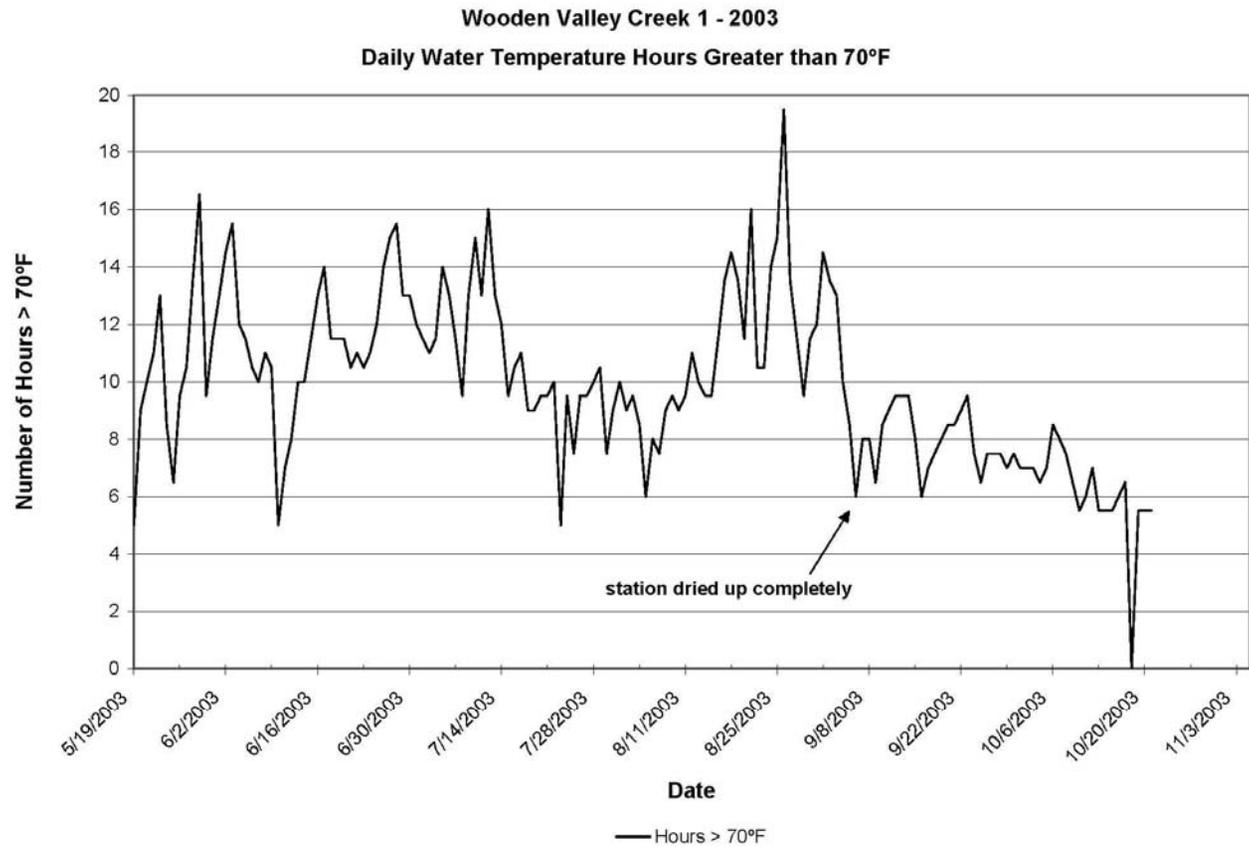
Suisun Creek 10 - 2003
Daily Range in Water Temperature



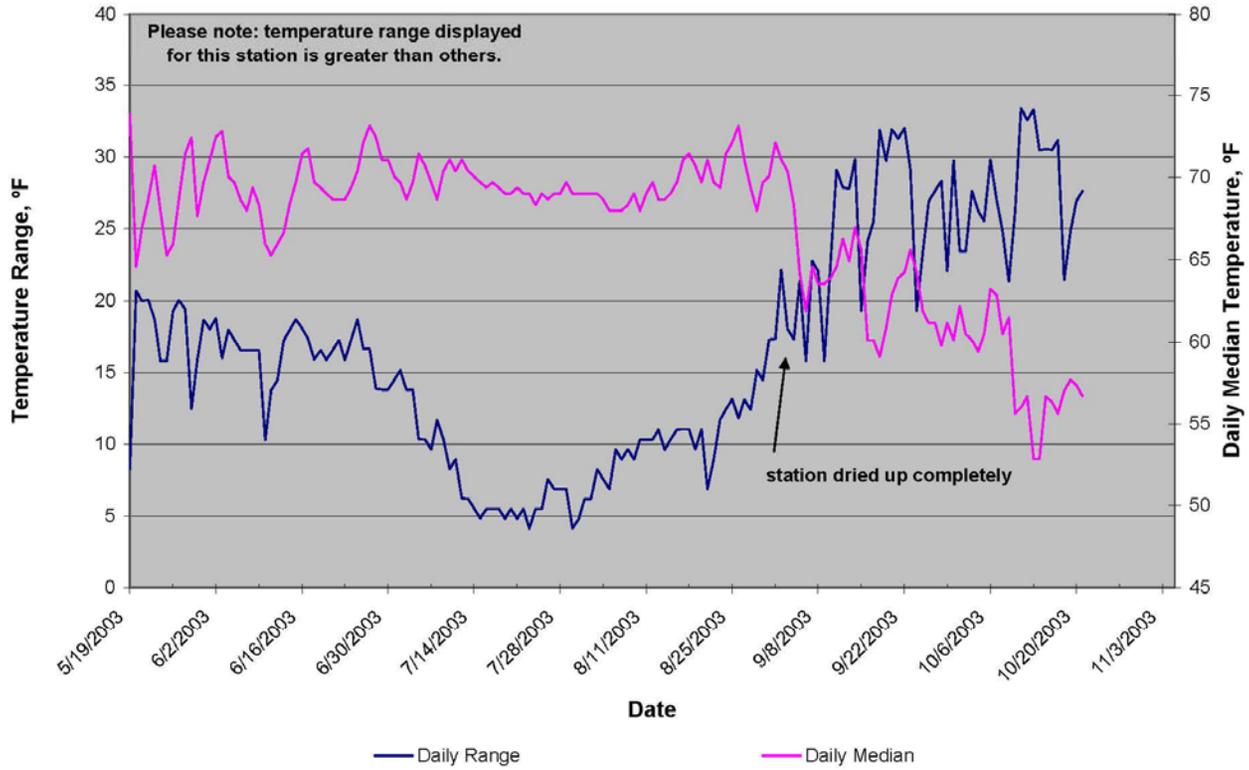


Wooden Valley Creek 1: May - November 2003

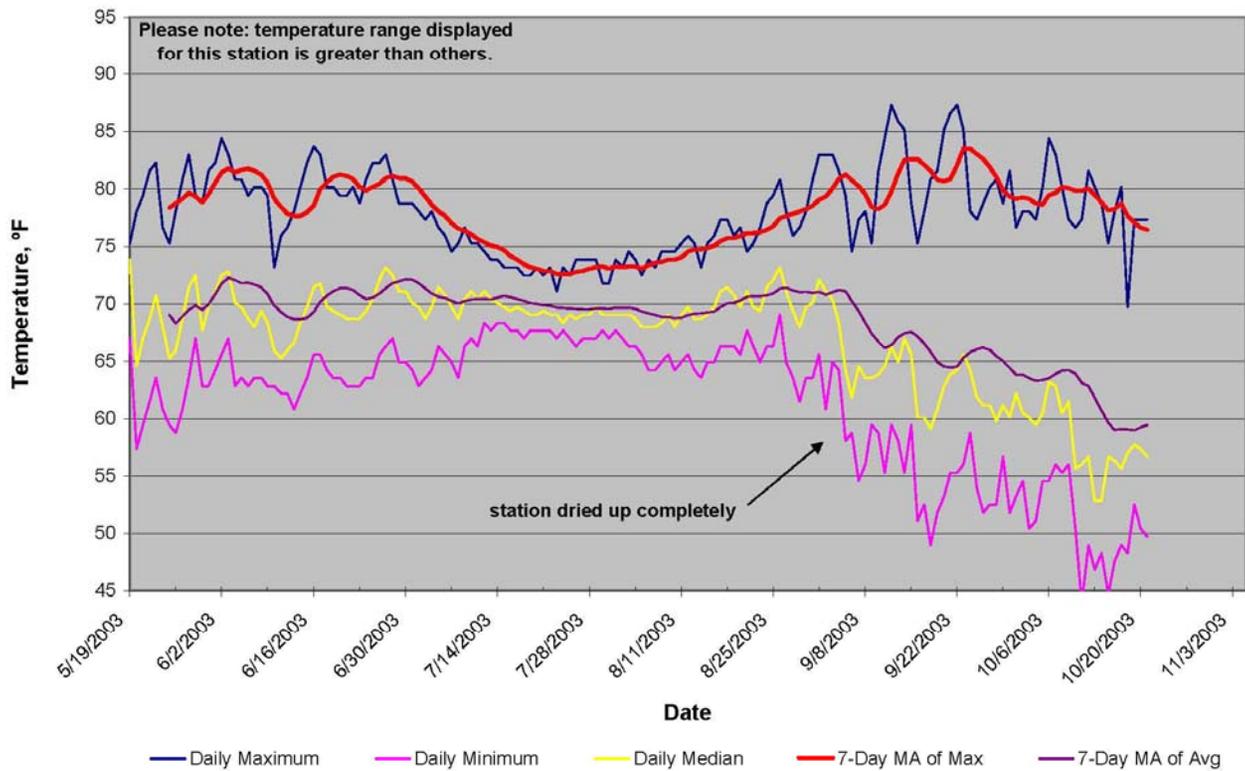




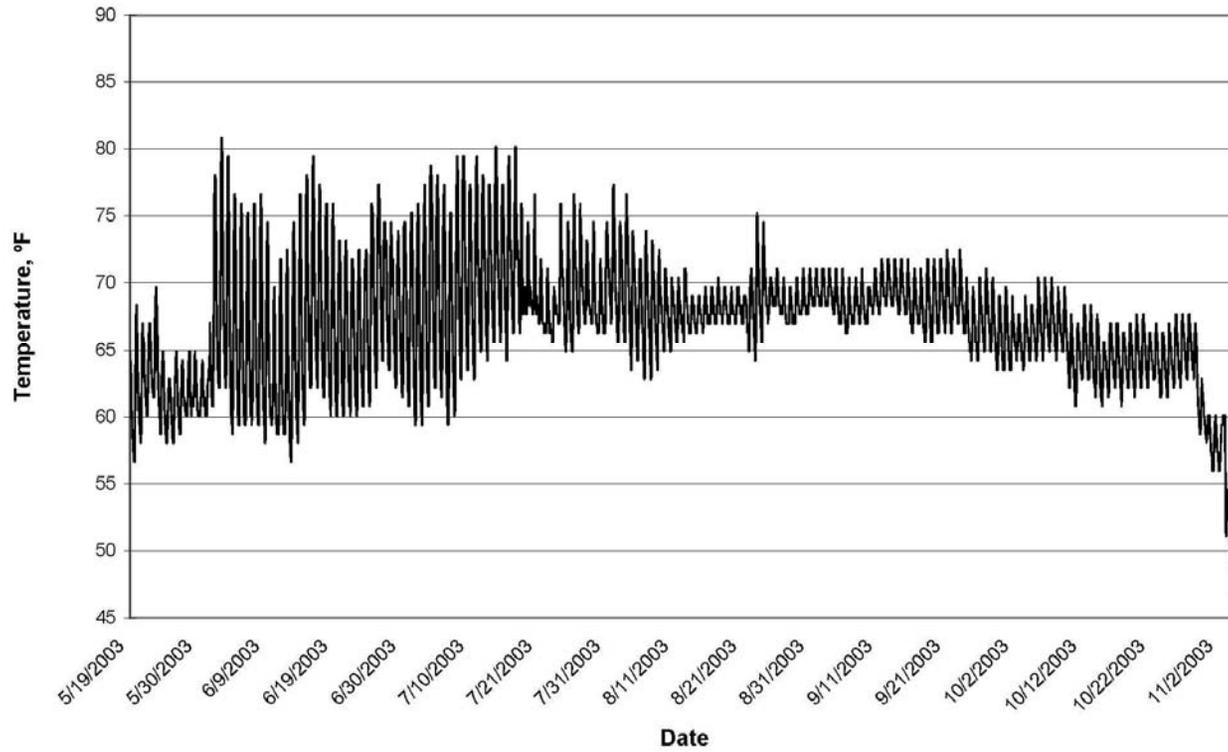
Wooden Valley Creek 1 - 2003
Daily Range in Water Temperature



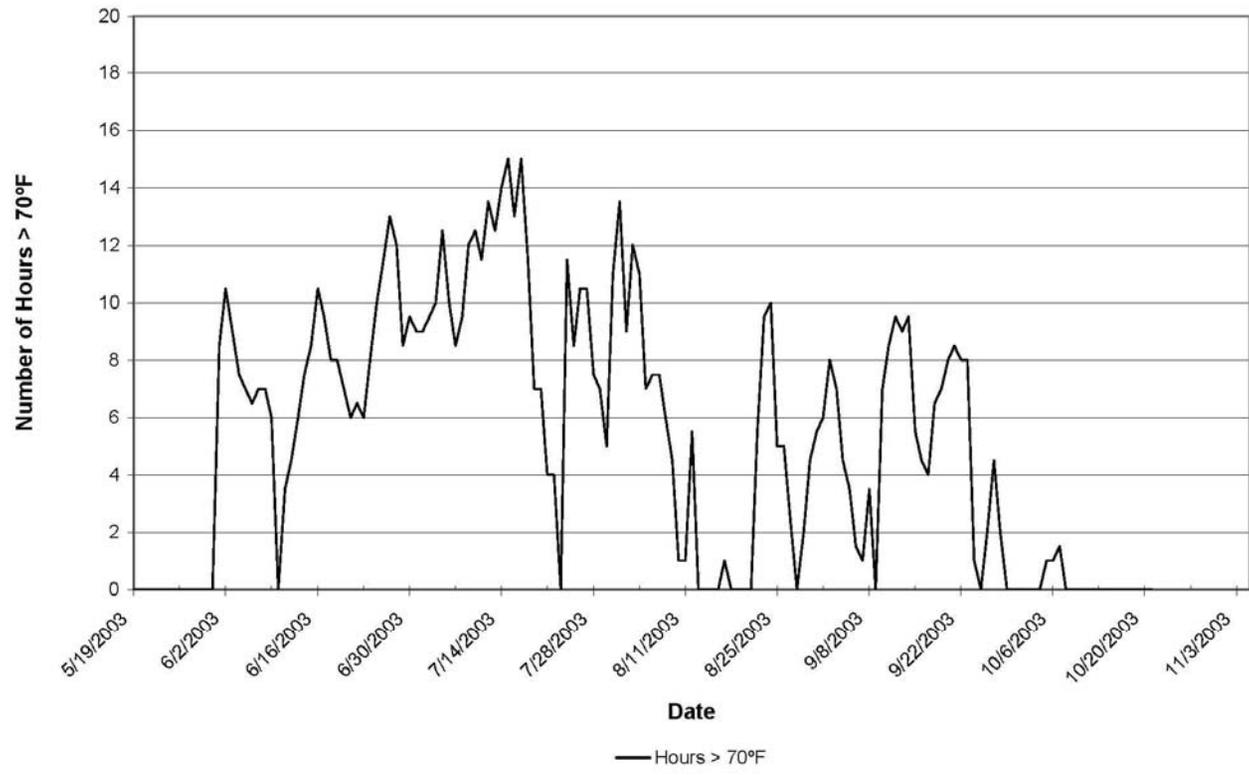
**Wooden Valley Creek 1 - 2003
Daily Water Temperature Summary**



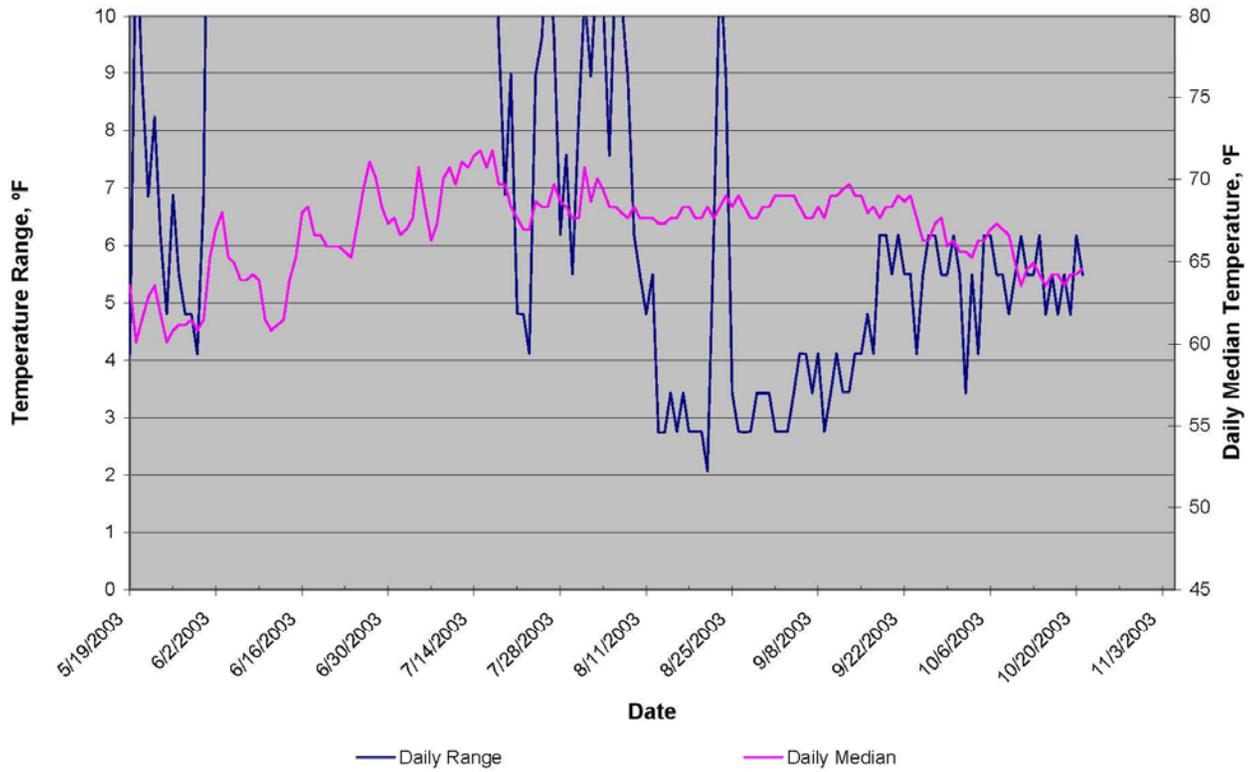
Wooden Valley Creek 2A: May - November 2003



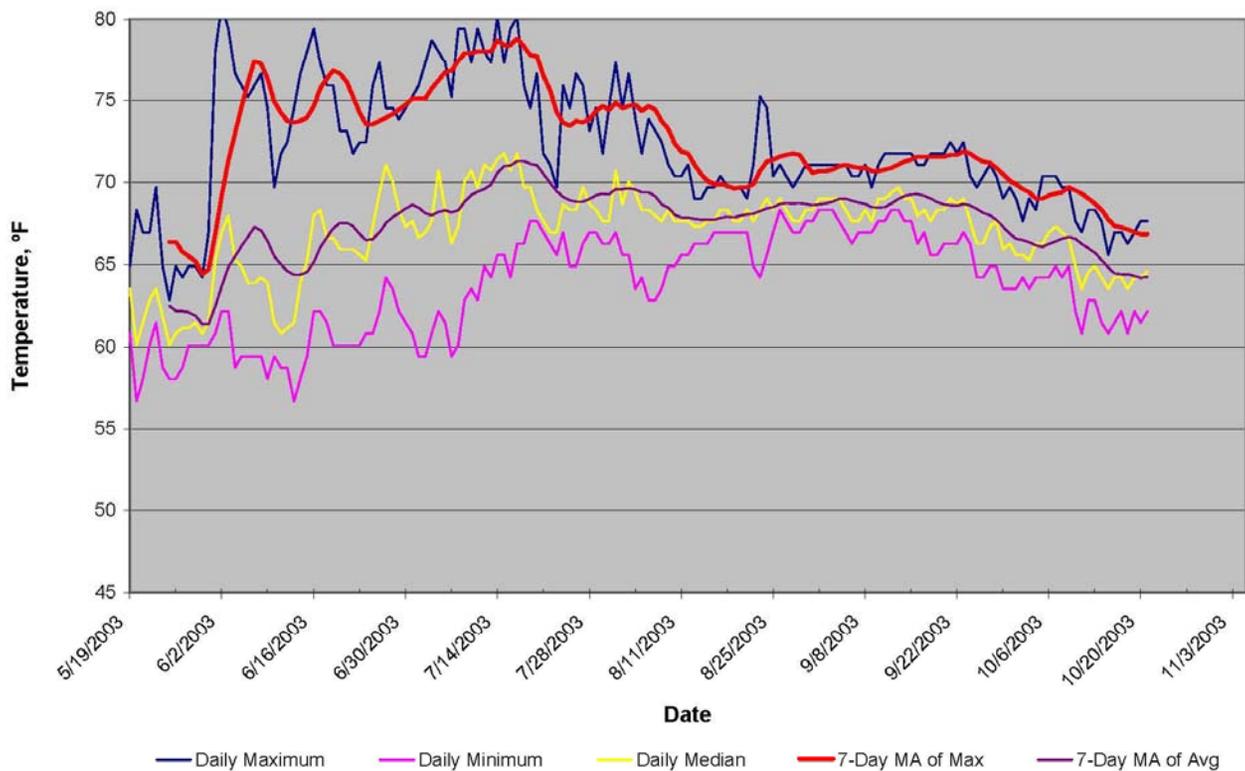
Wooden Valley Creek 2A - 2003
 Daily Water Temperature Hours Greater than 70°F



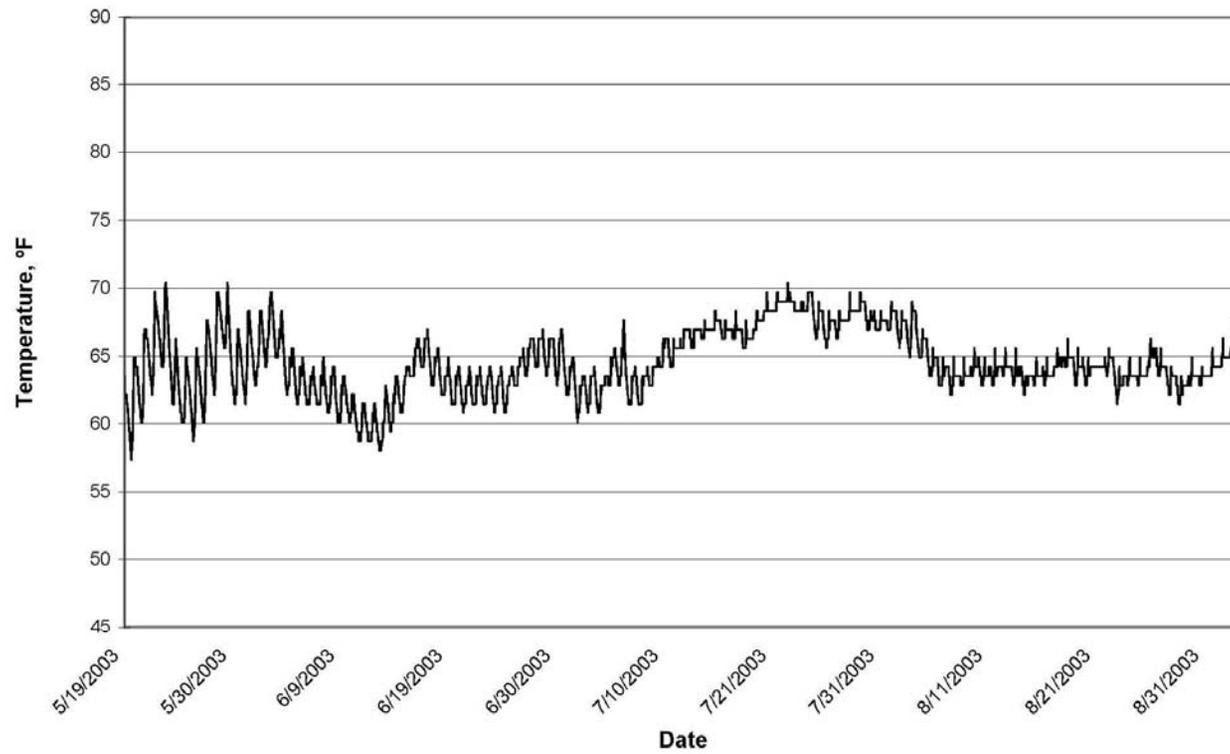
**Wooden Valley Creek 2A - 2003
Daily Range in Water Temperature**



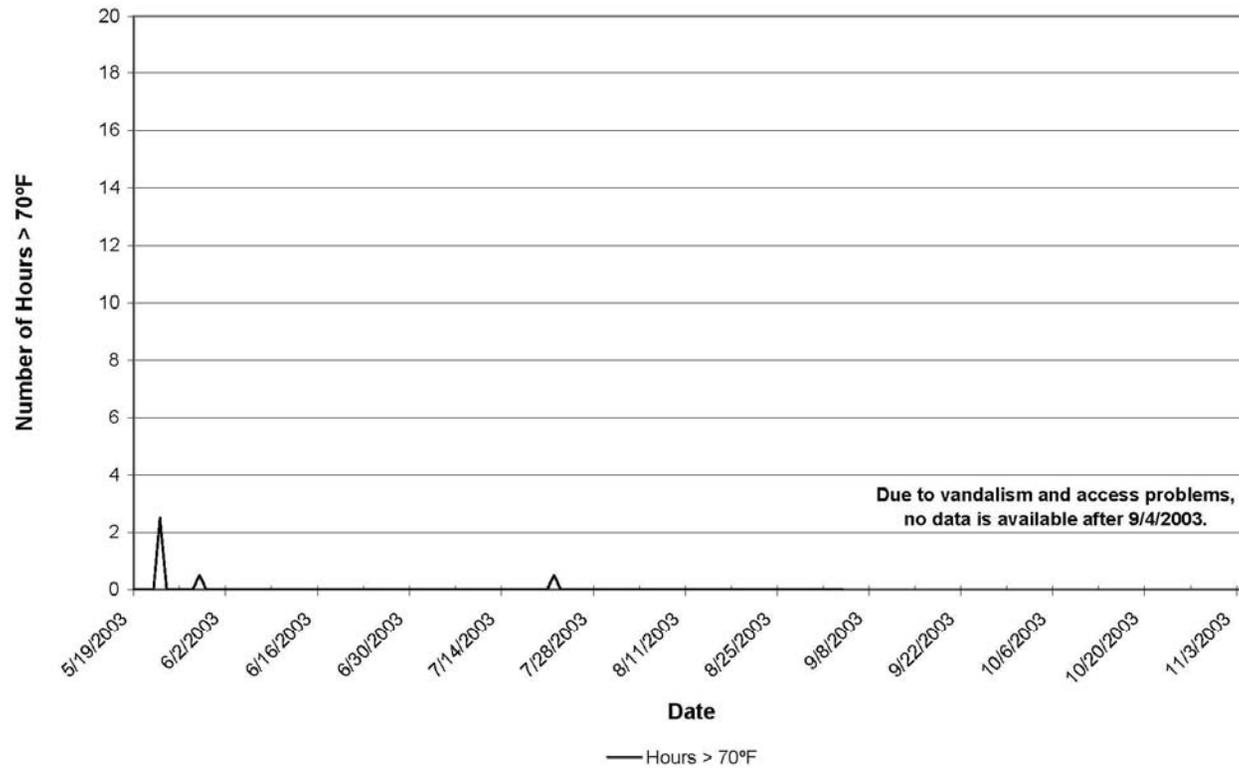
**Wooden Valley Creek 2A - 2003
Daily Water Temperature Summary**



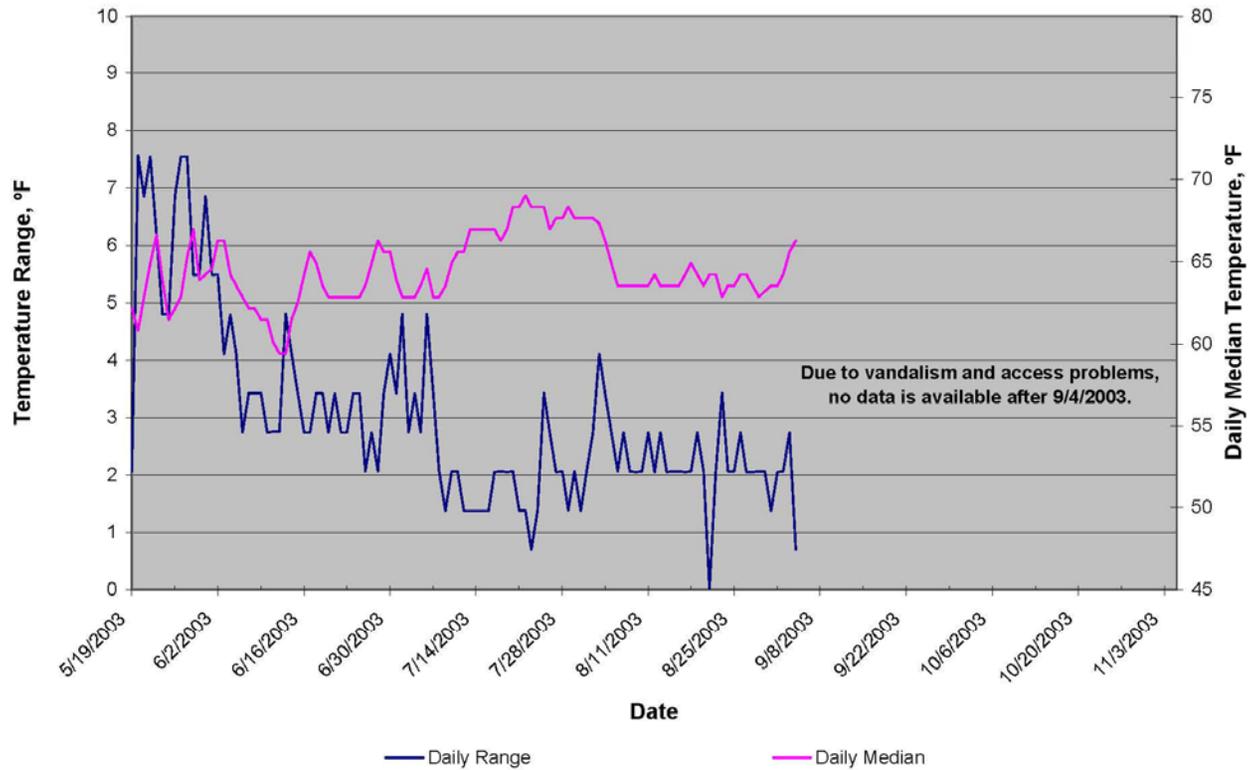
Wooden Valley Creek 2: May - September 2003



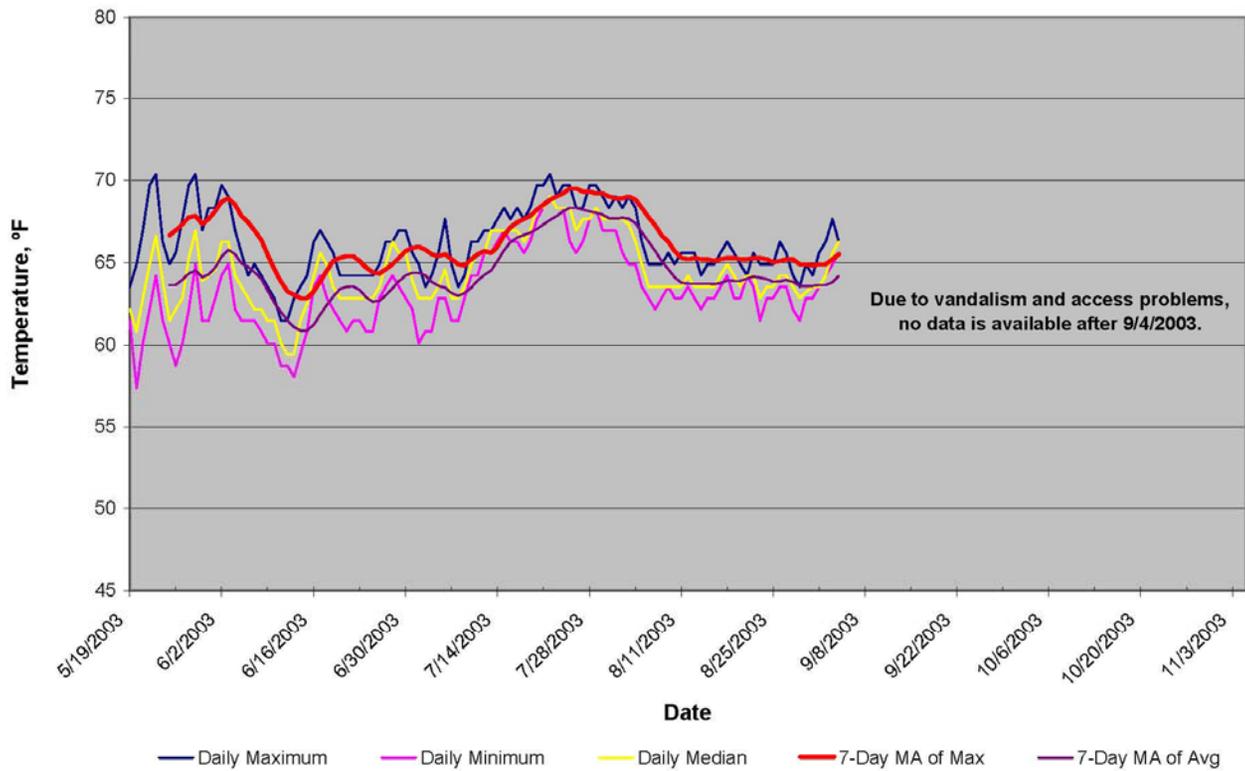
Wooden Valley Creek 2 - 2003
Daily Water Temperature Hours Greater than 70°F



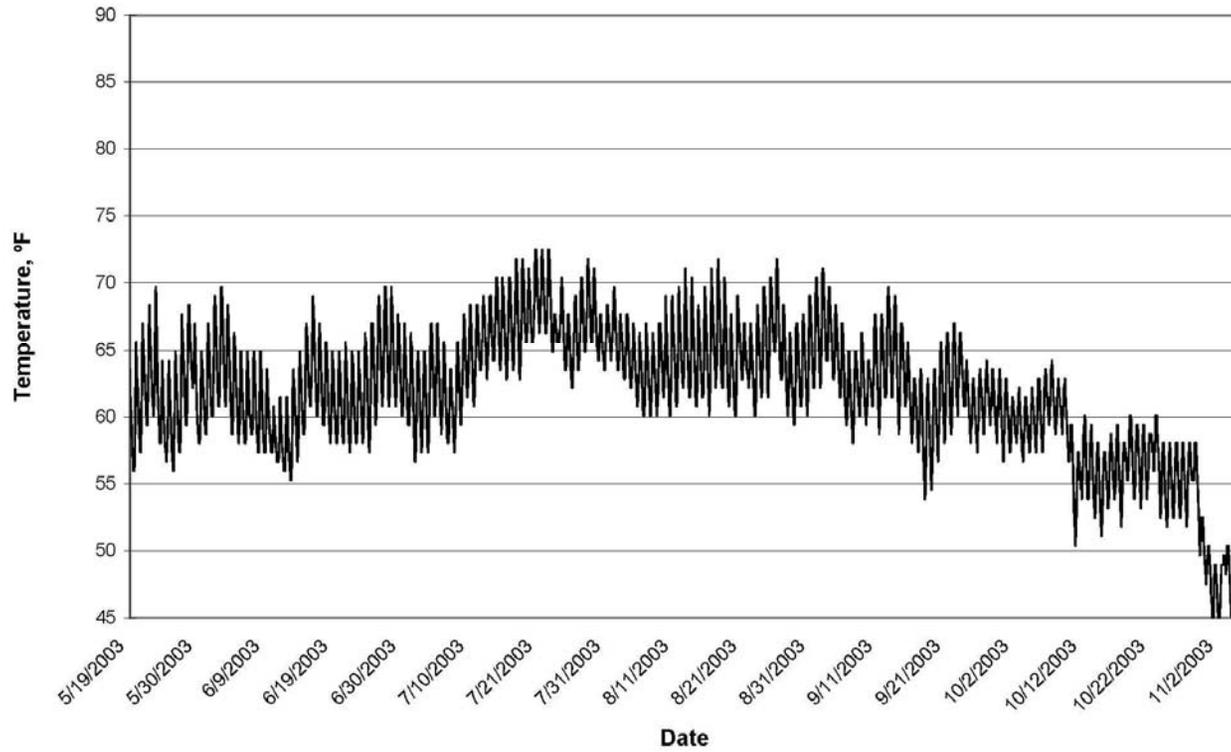
Wooden Valley Creek 2 - 2003
Daily Range in Water Temperature



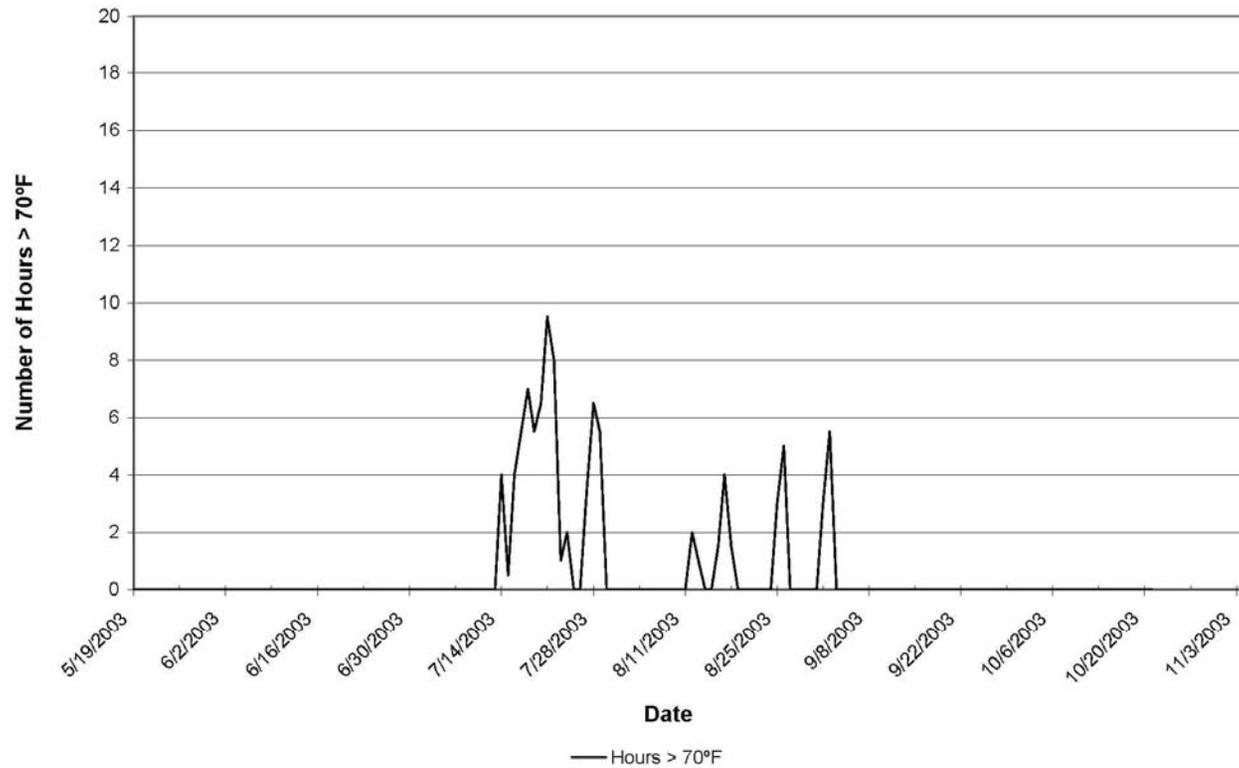
**Wooden Valley Creek 2 - 2003
Daily Water Temperature Summary**



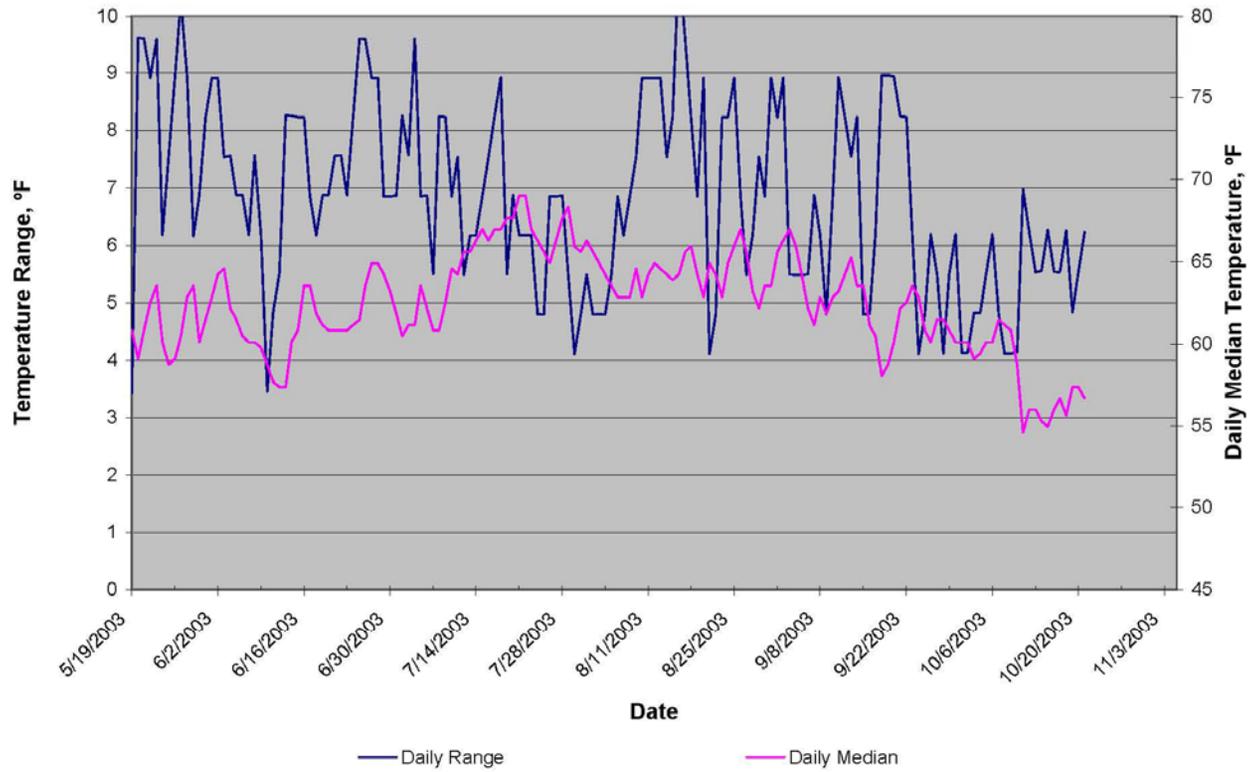
Wooden Valley Creek 3: May - November 2003



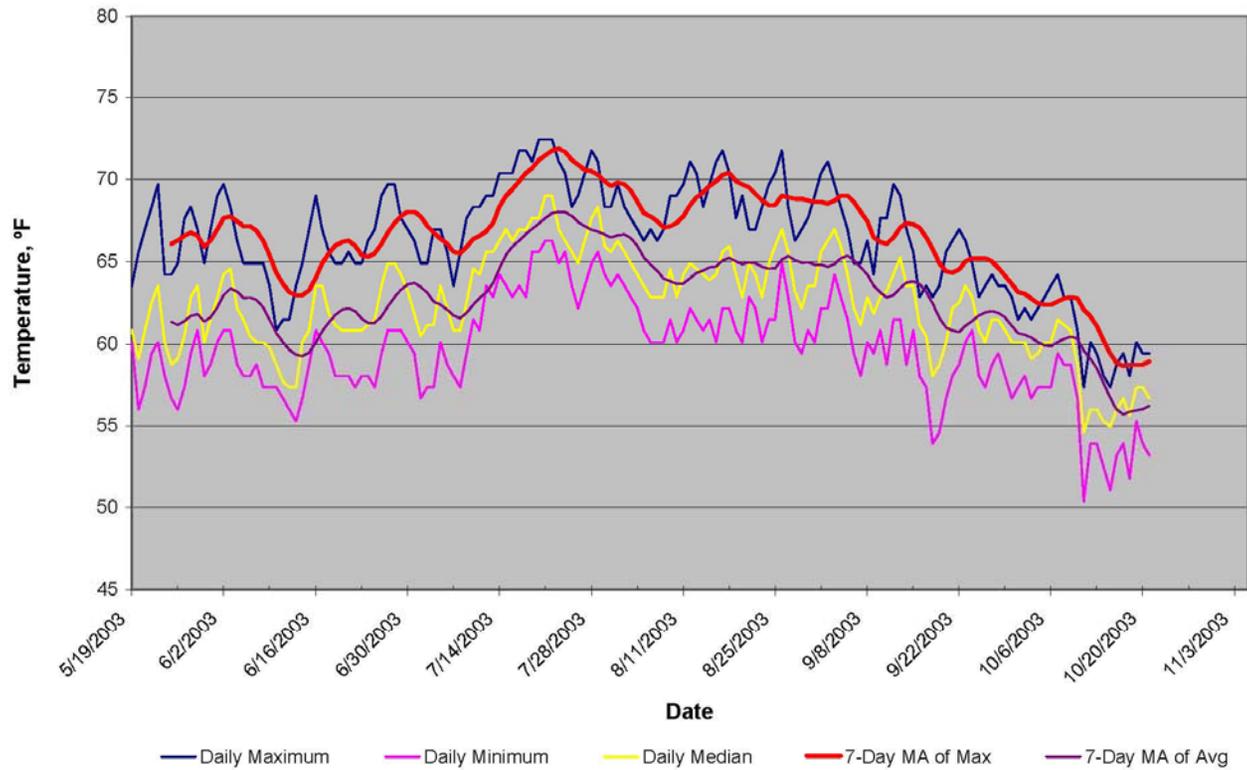
Wooden Valley Creek 3 - 2003
Daily Water Temperature Hours Greater than 70°F



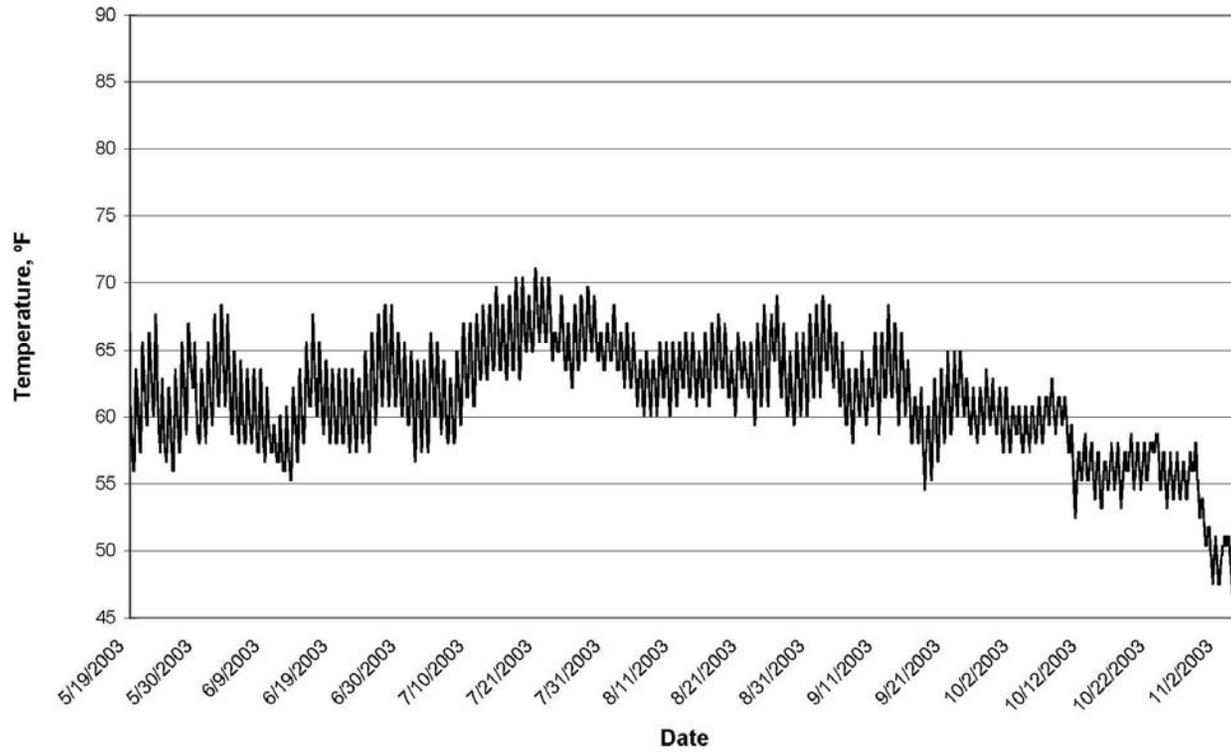
**Wooden Valley Creek 3 - 2003
Daily Range in Water Temperature**



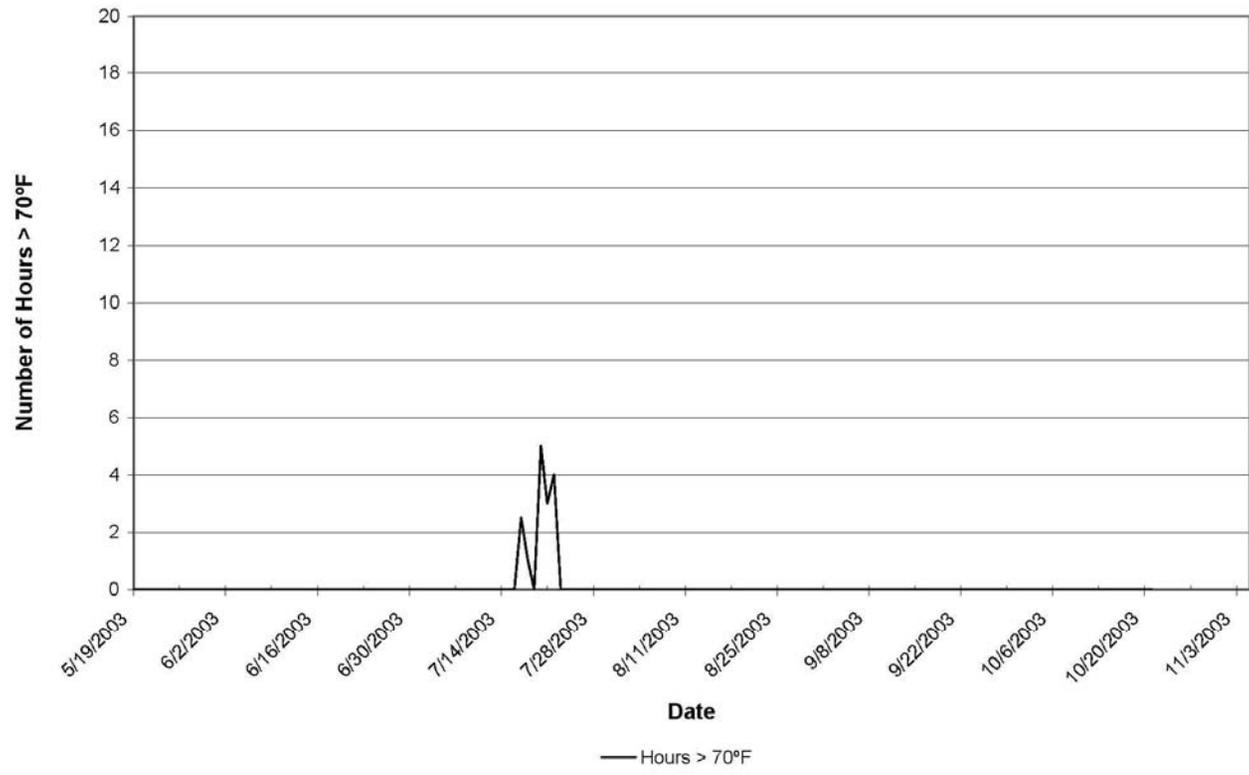
Wooden Valley Creek 3 - 2003
Daily Water Temperature Summary



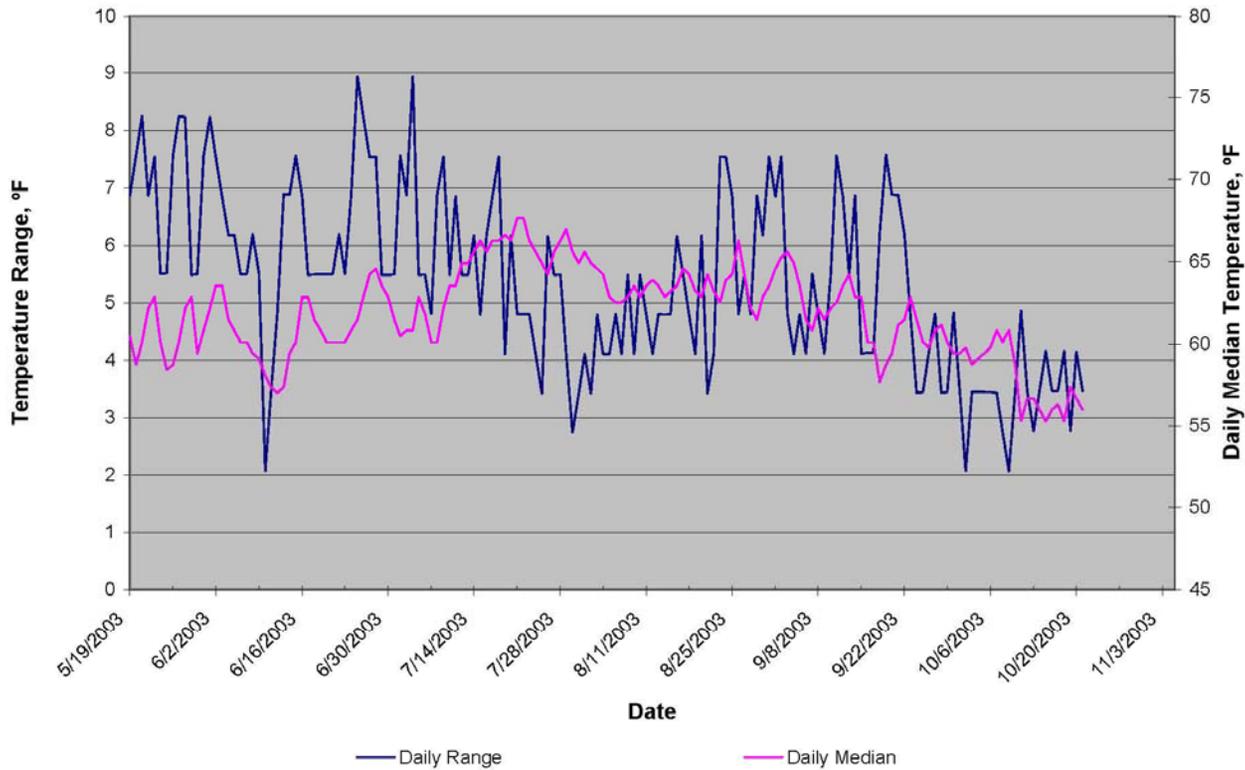
Wooden Valley Creek 4: May - November 2003

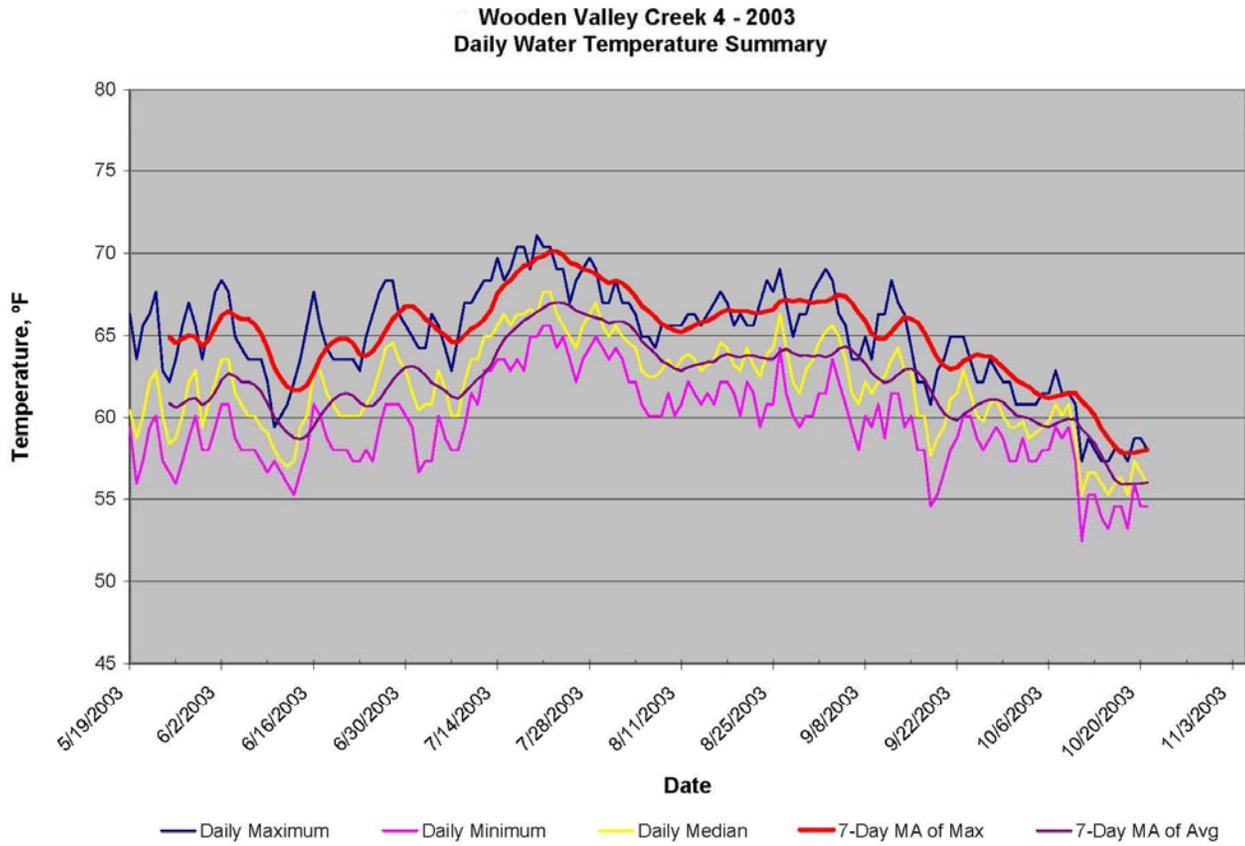


Wooden Valley Creek 4 - 2003
Daily Water Temperature Hours Greater than 70°F

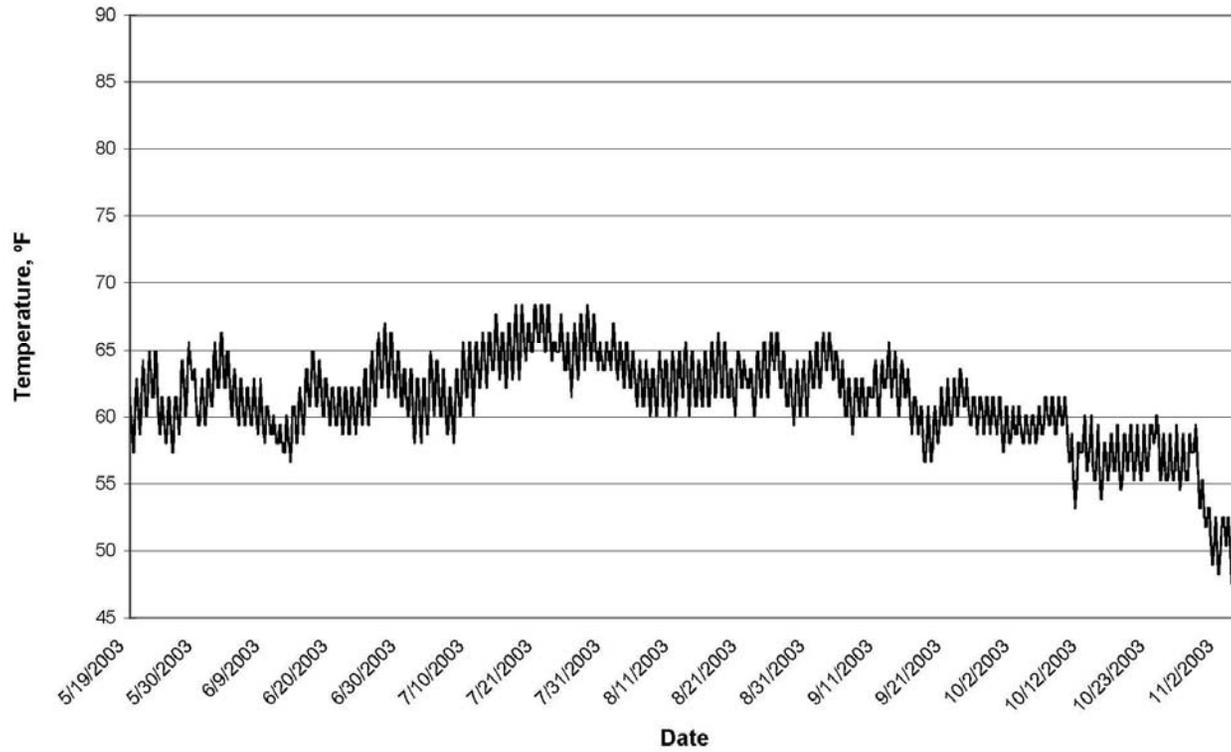


Wooden Valley Creek 4 - 2003
Daily Range in Water Temperature

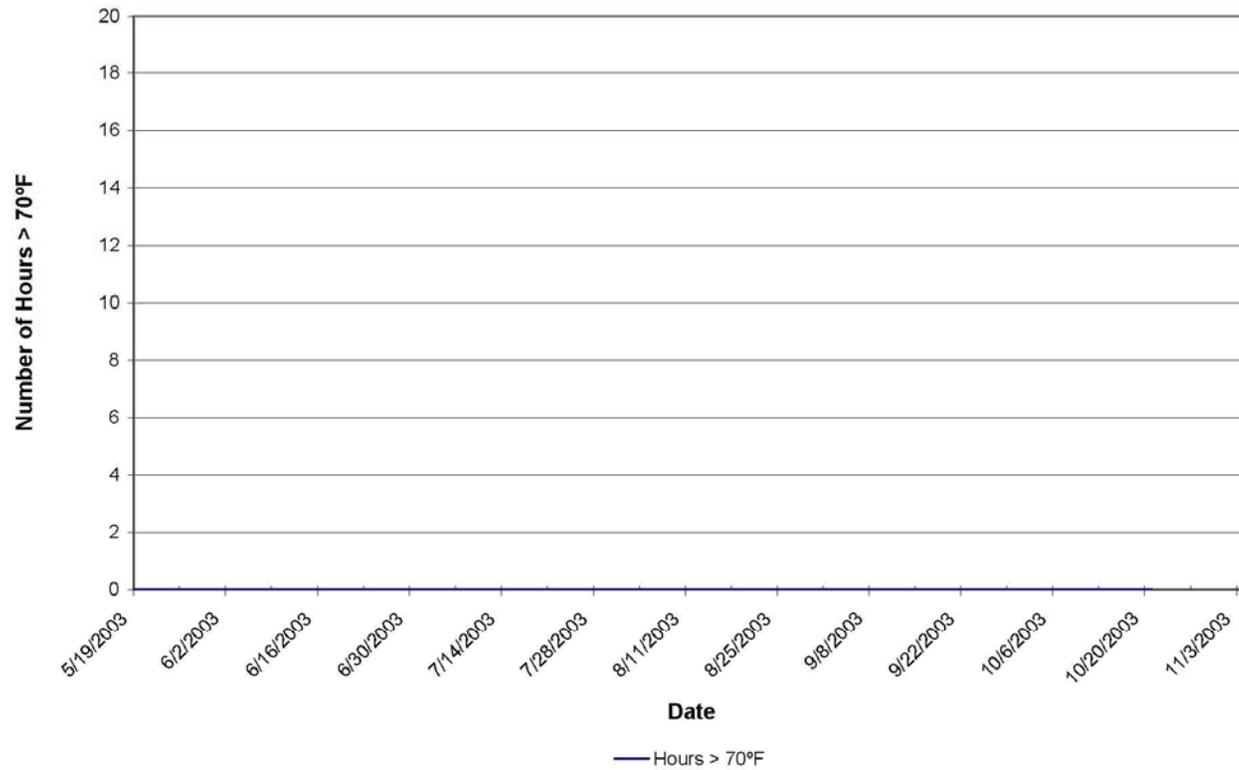




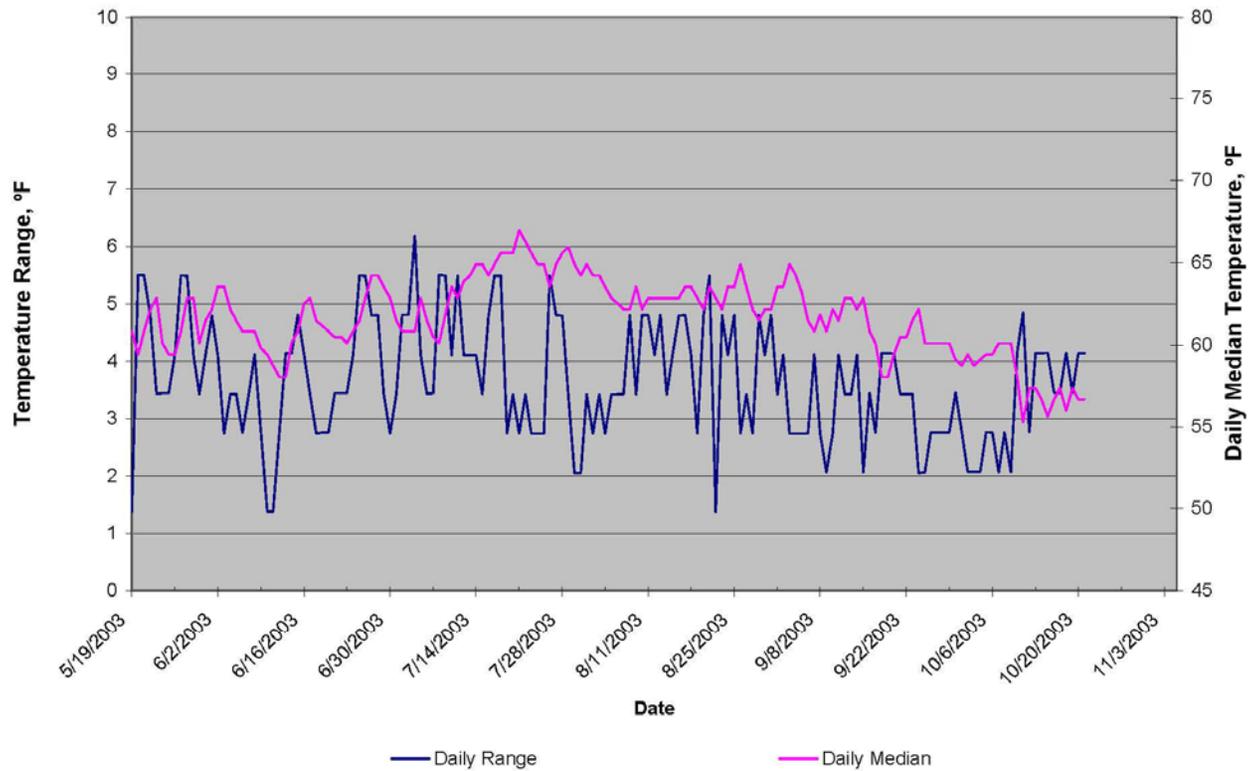
Wooden Valley Creek 5: May - November 2003



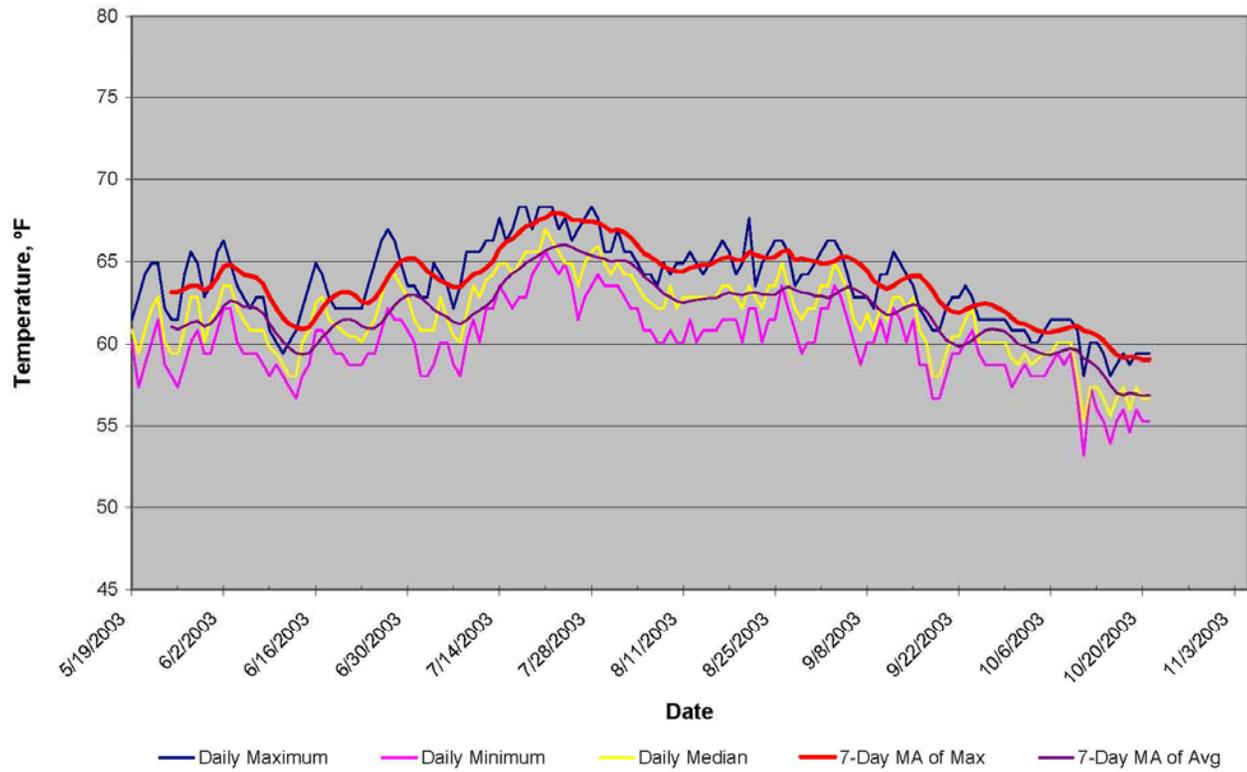
Wooden Valley Creek 5 - 2003
Daily Water Temperature Hours Greater than 70°F



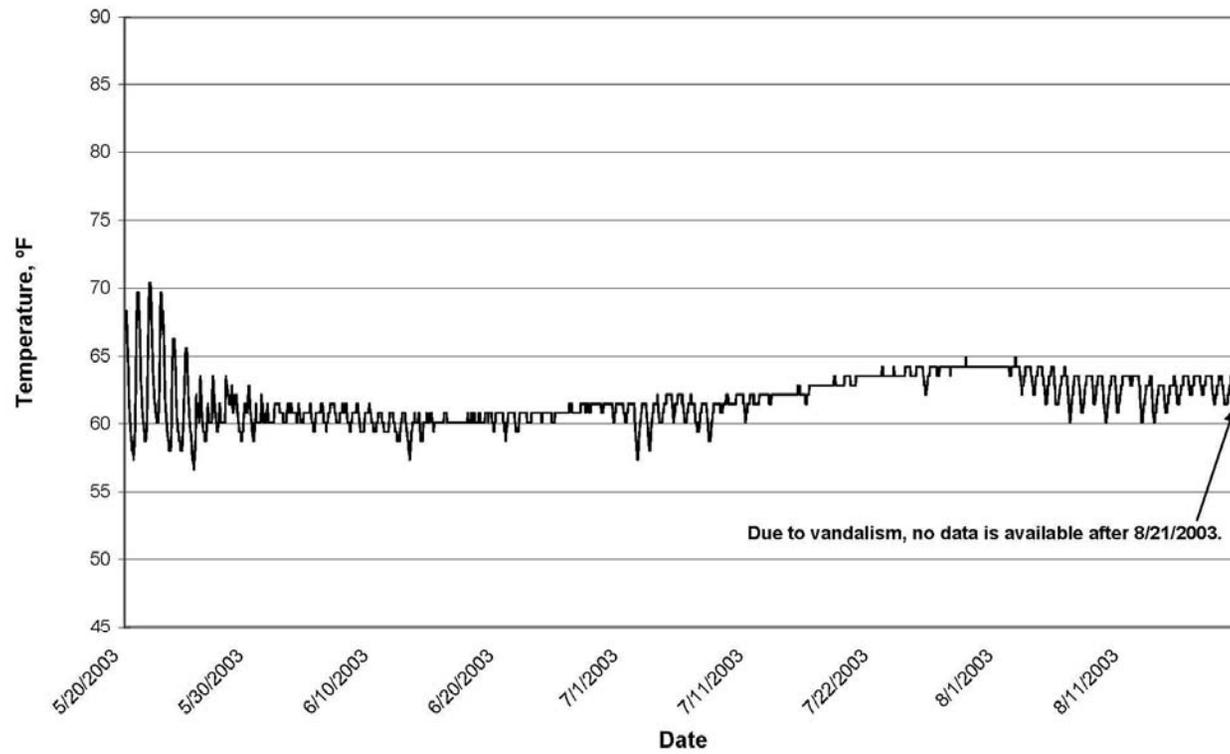
Wooden Valley Creek 5 - 2003
 Daily Range in Water Temperature



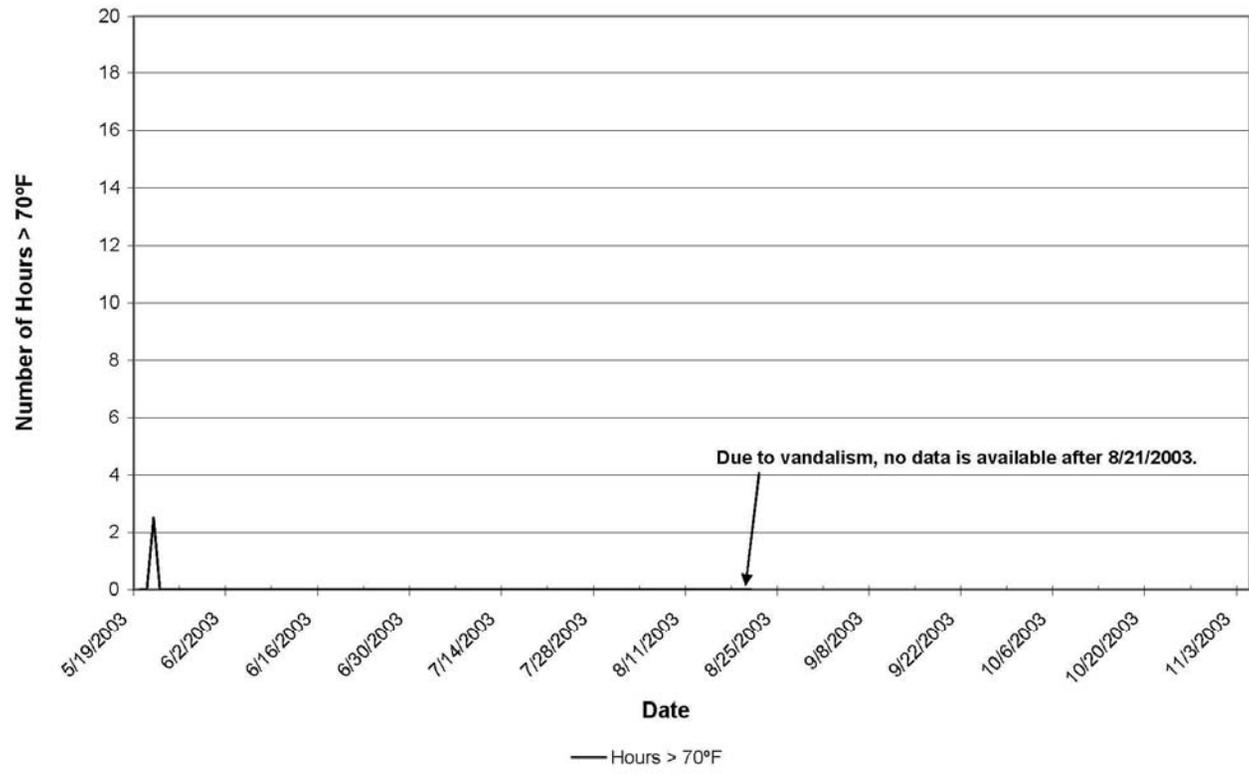
**Wooden Valley Creek 5 - 2003
Daily Water Temperature Summary**



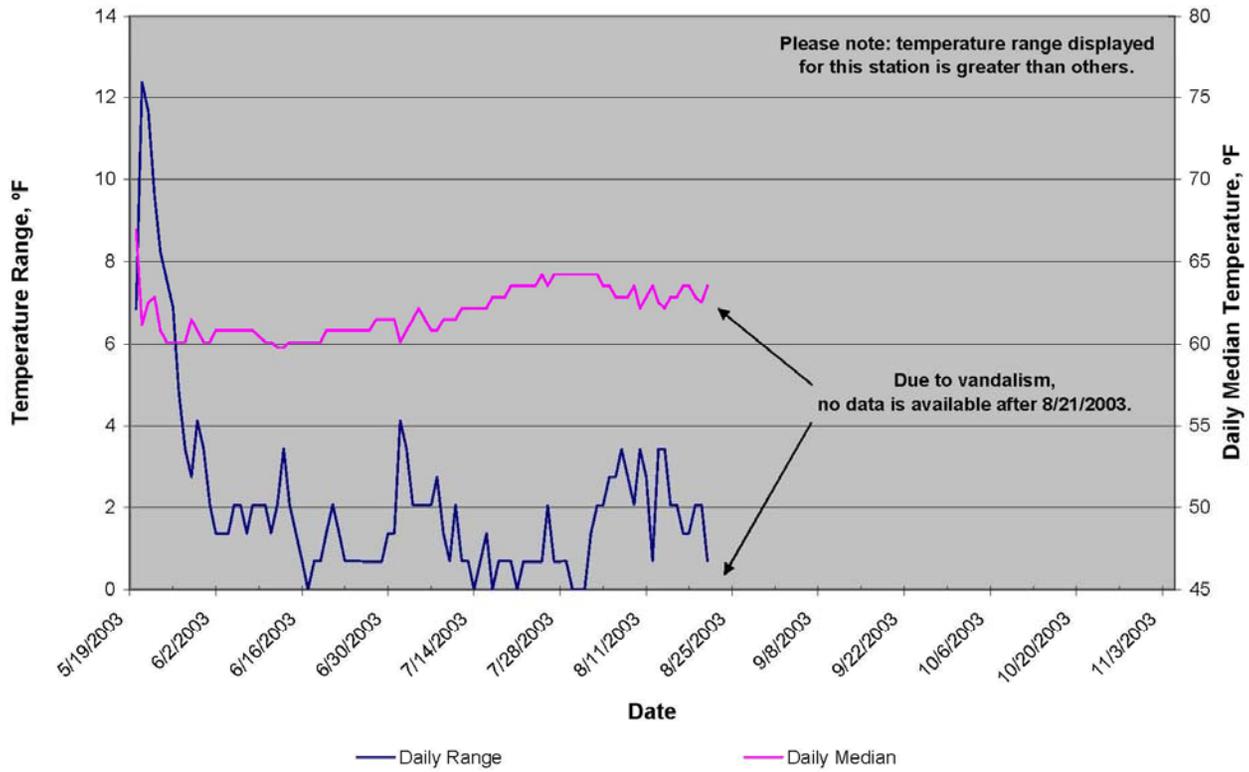
Wooden Valley Creek 6: May - August 2003



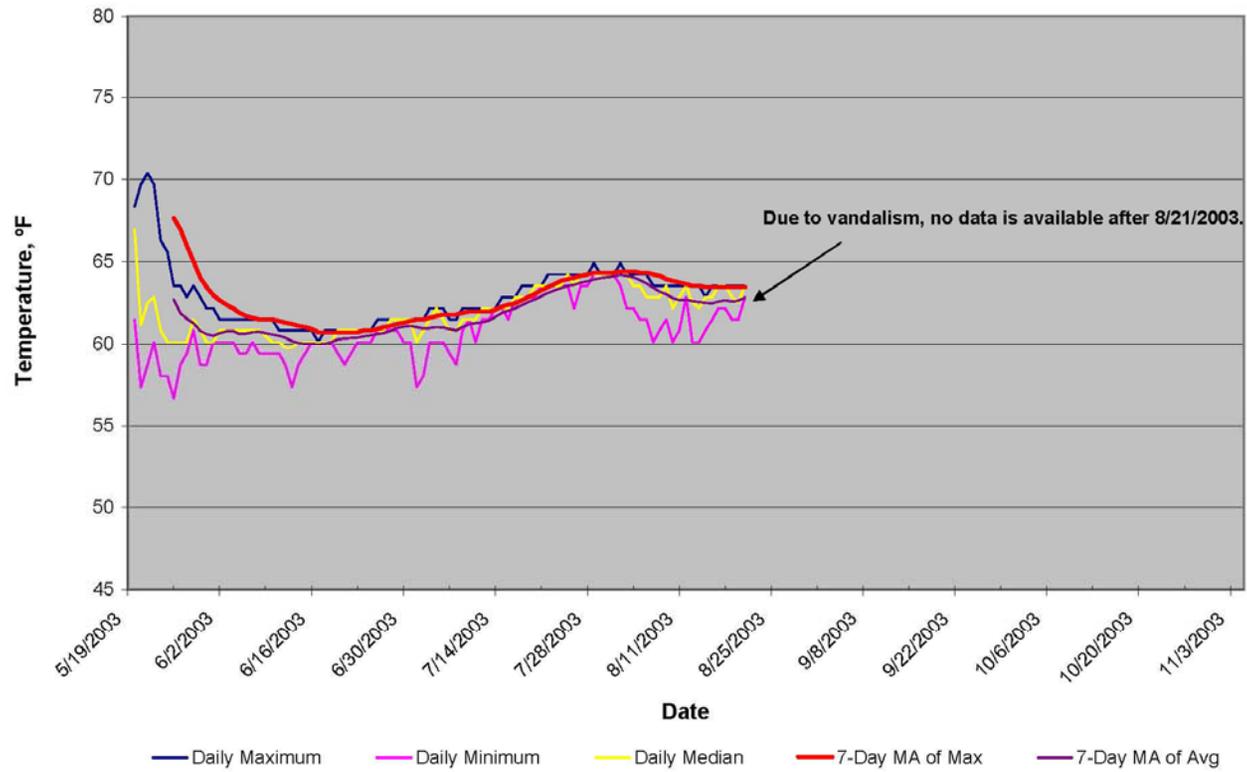
Wooden Valley Creek 6 - 2003
Daily Water Temperature Hours Greater than 70°F



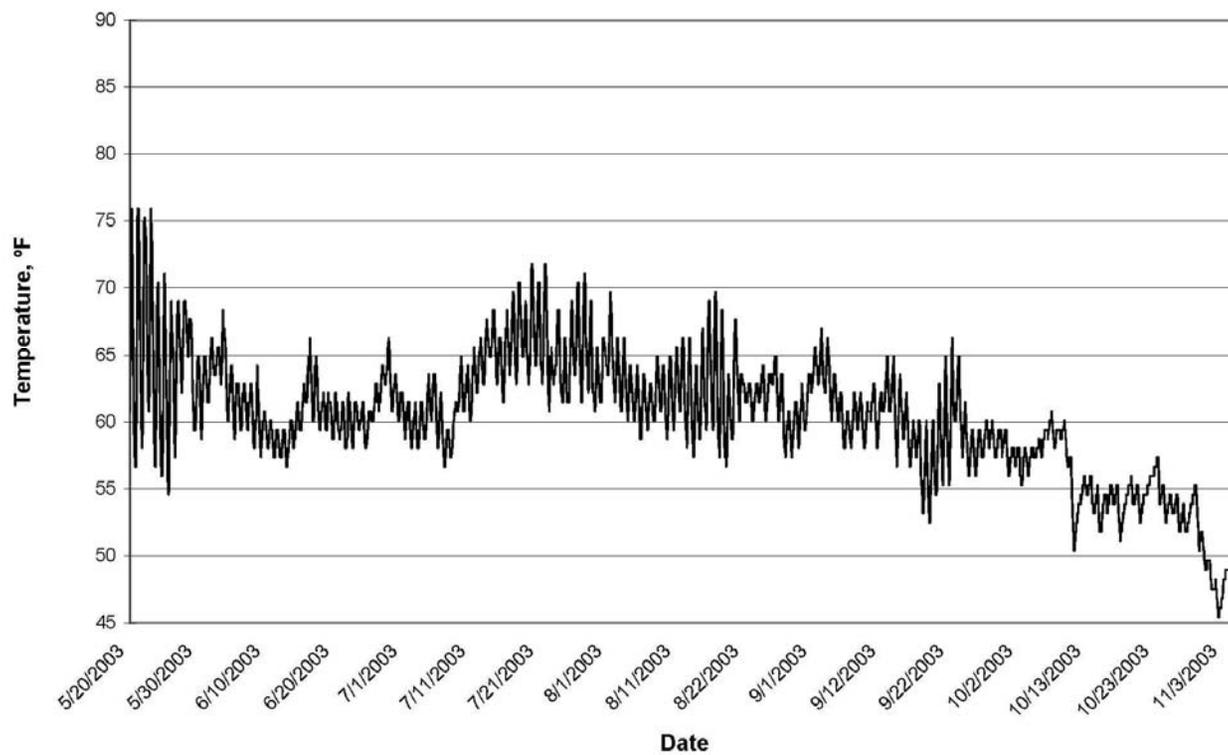
**Wooden Valley Creek 6 - 2003
Daily Range in Water Temperature**



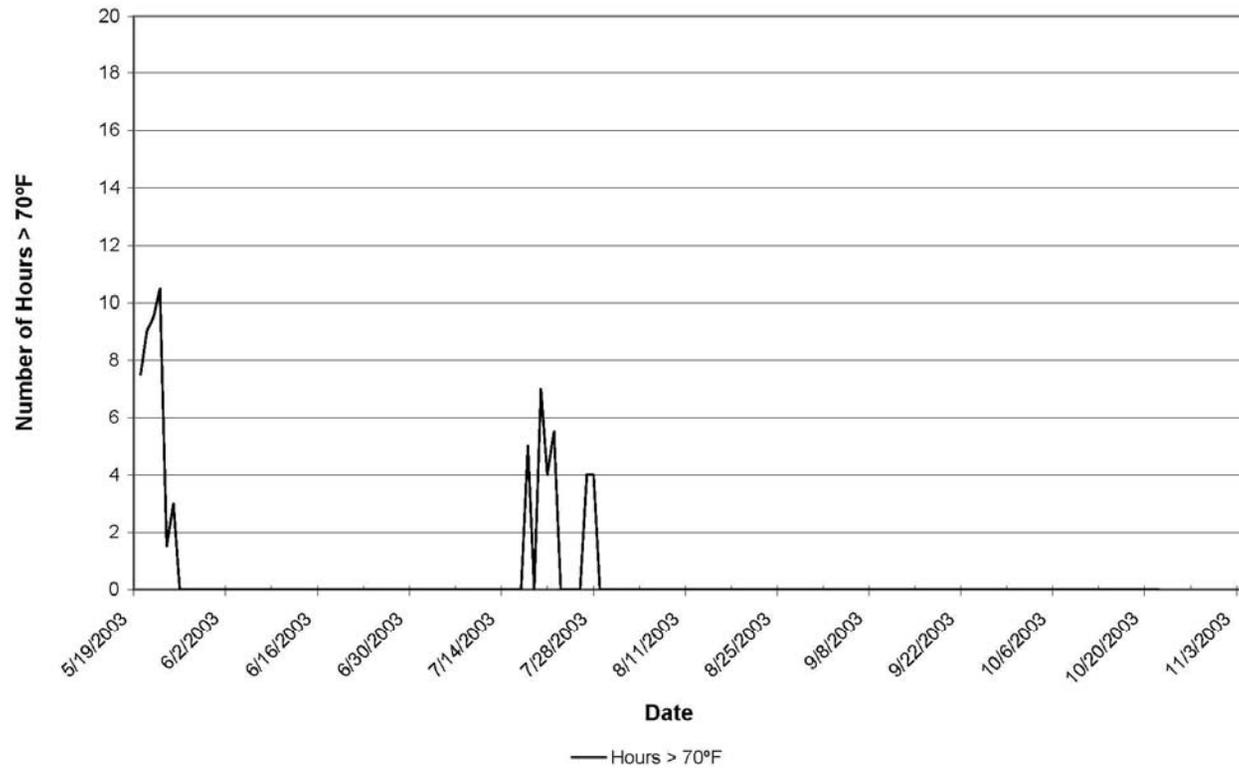
Wooden Valley Creek 6 - 2003
Daily Water Temperature Summary



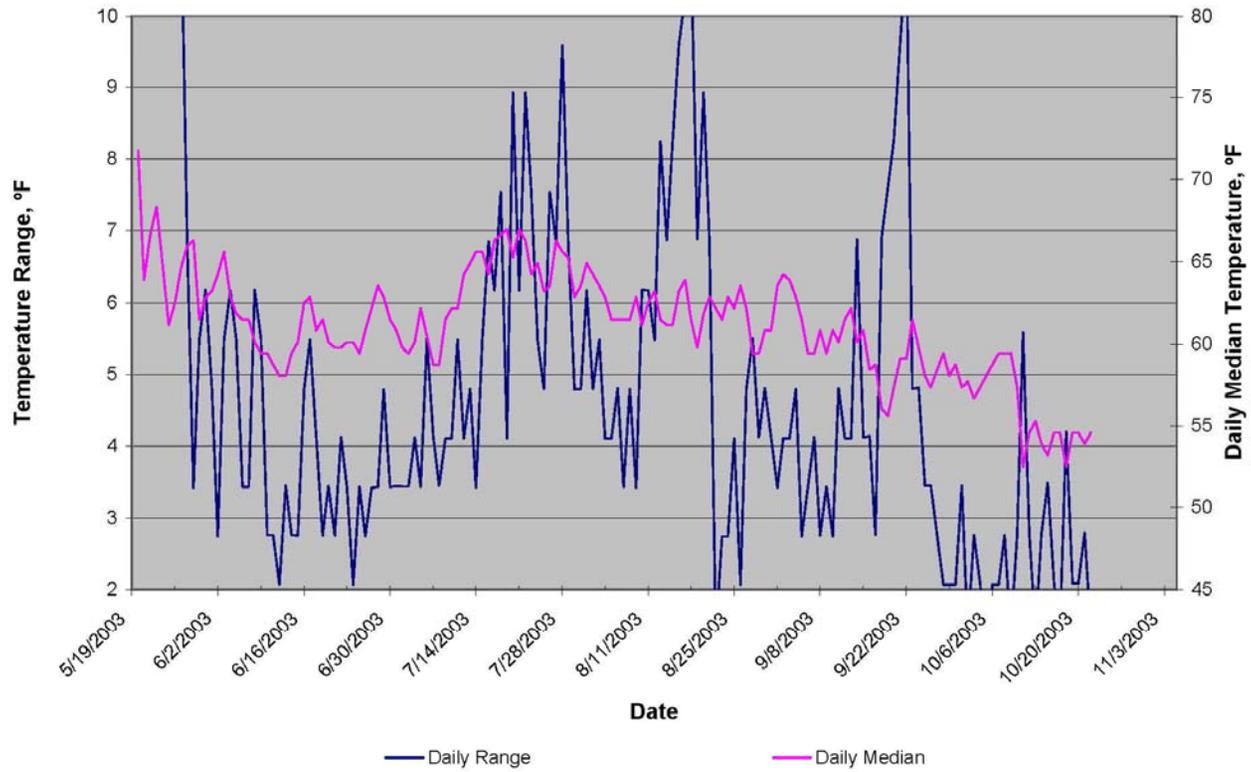
White Creek 1: May - November 2003



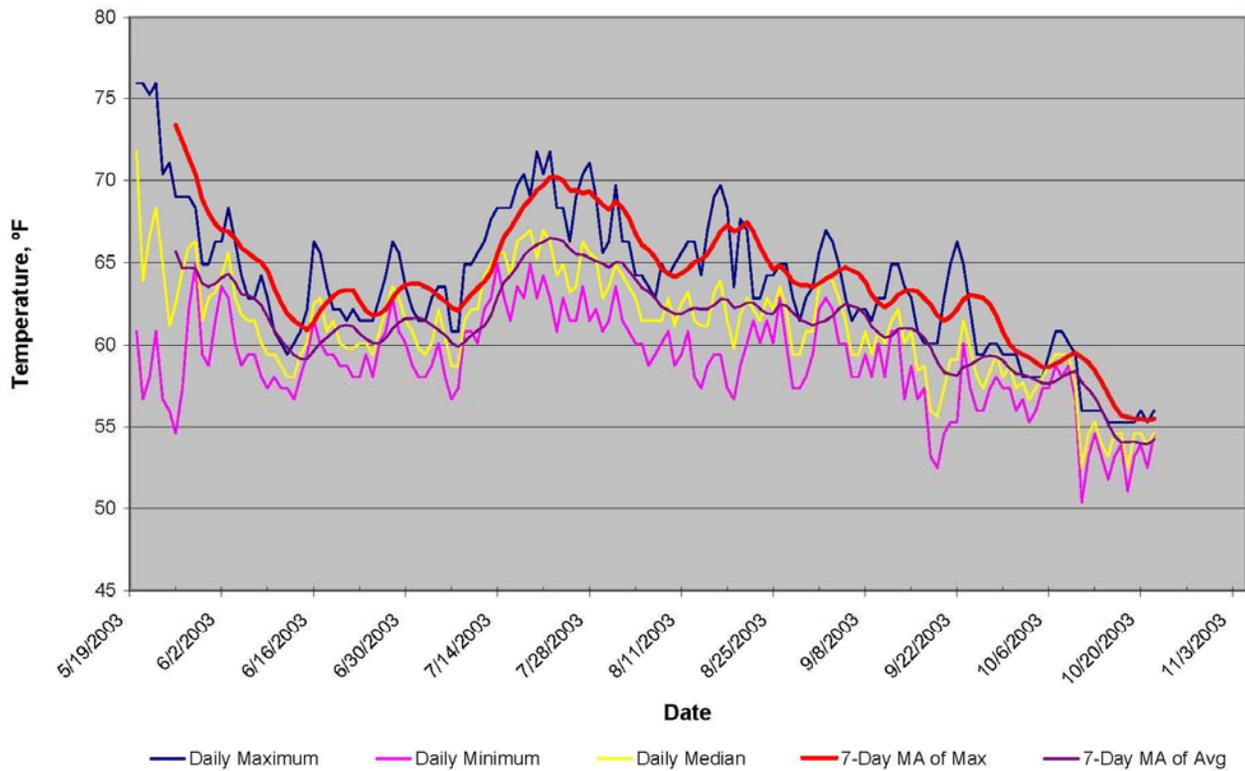
White Creek 1 - 2003
Daily Water Temperature Hours Greater than 70°F



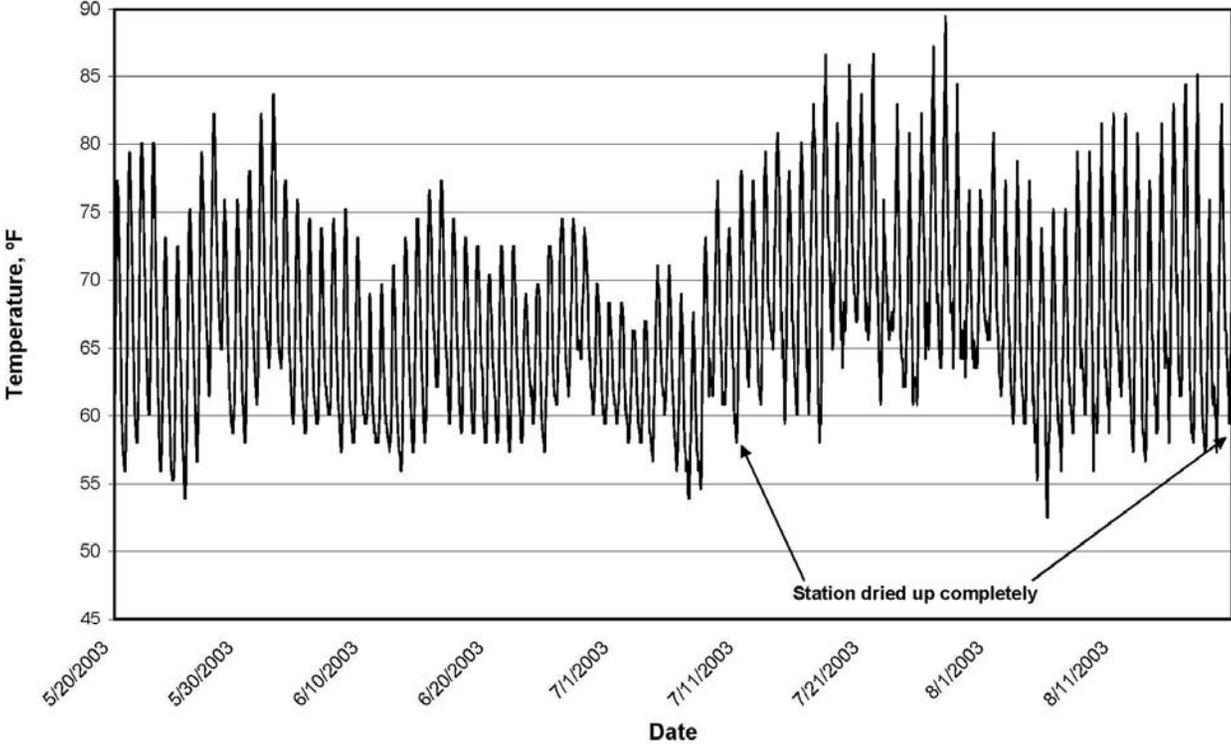
White Creek 1 - 2003
Daily Range in Water Temperature

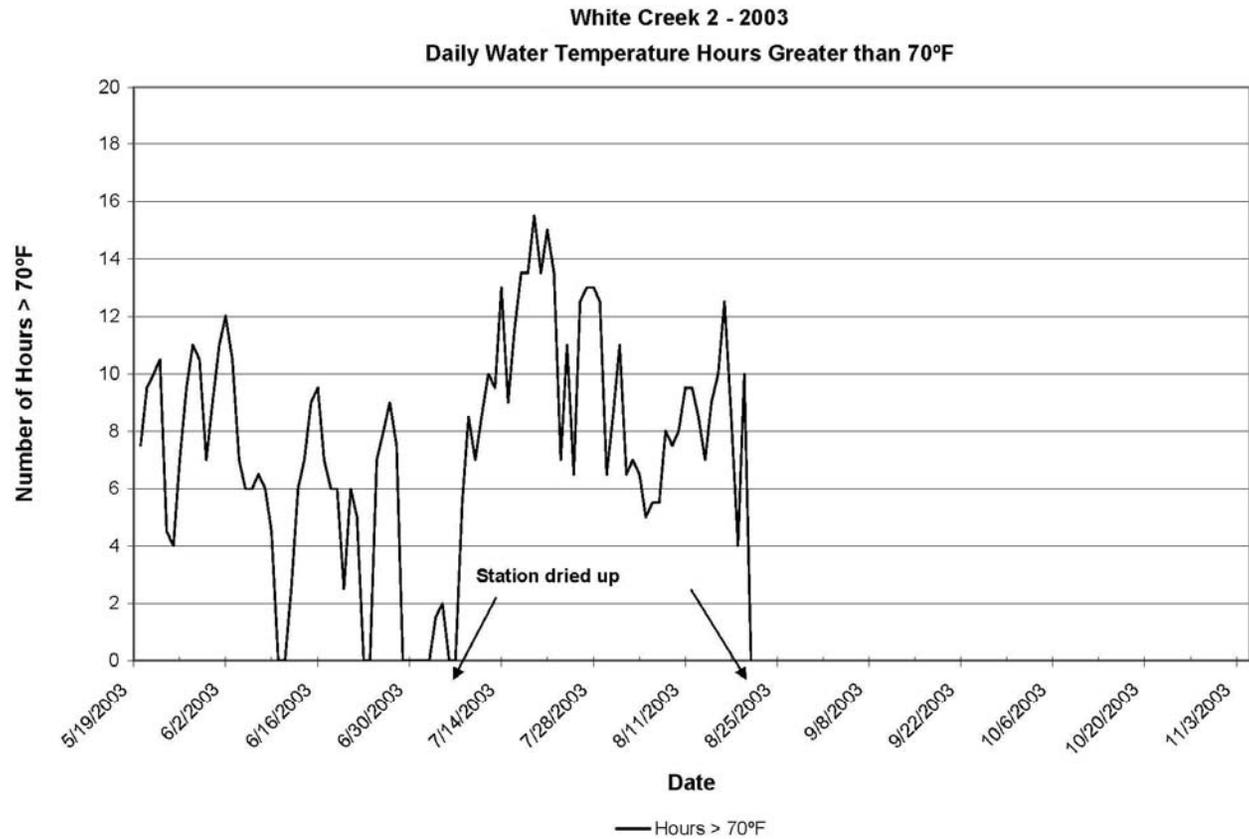


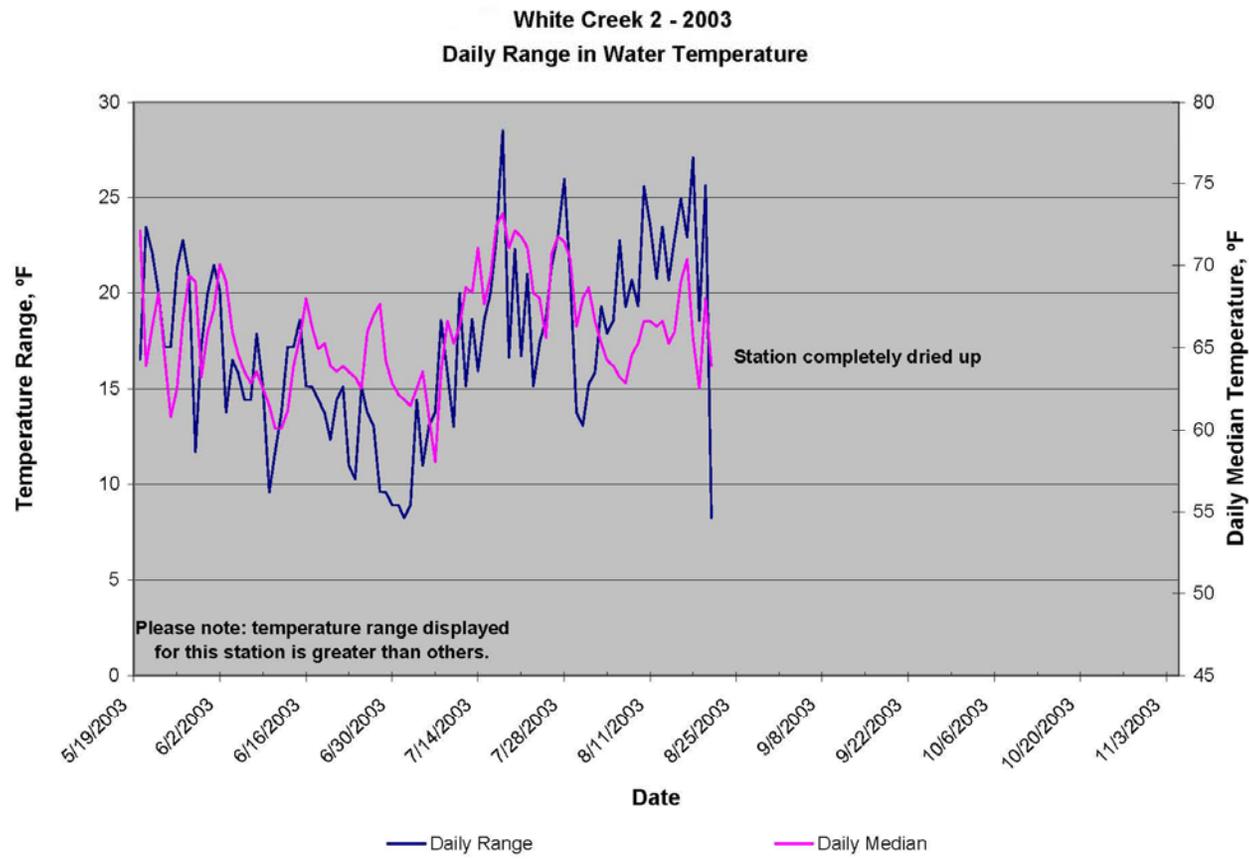
White Creek 1 - 2003
Daily Water Temperature Summary



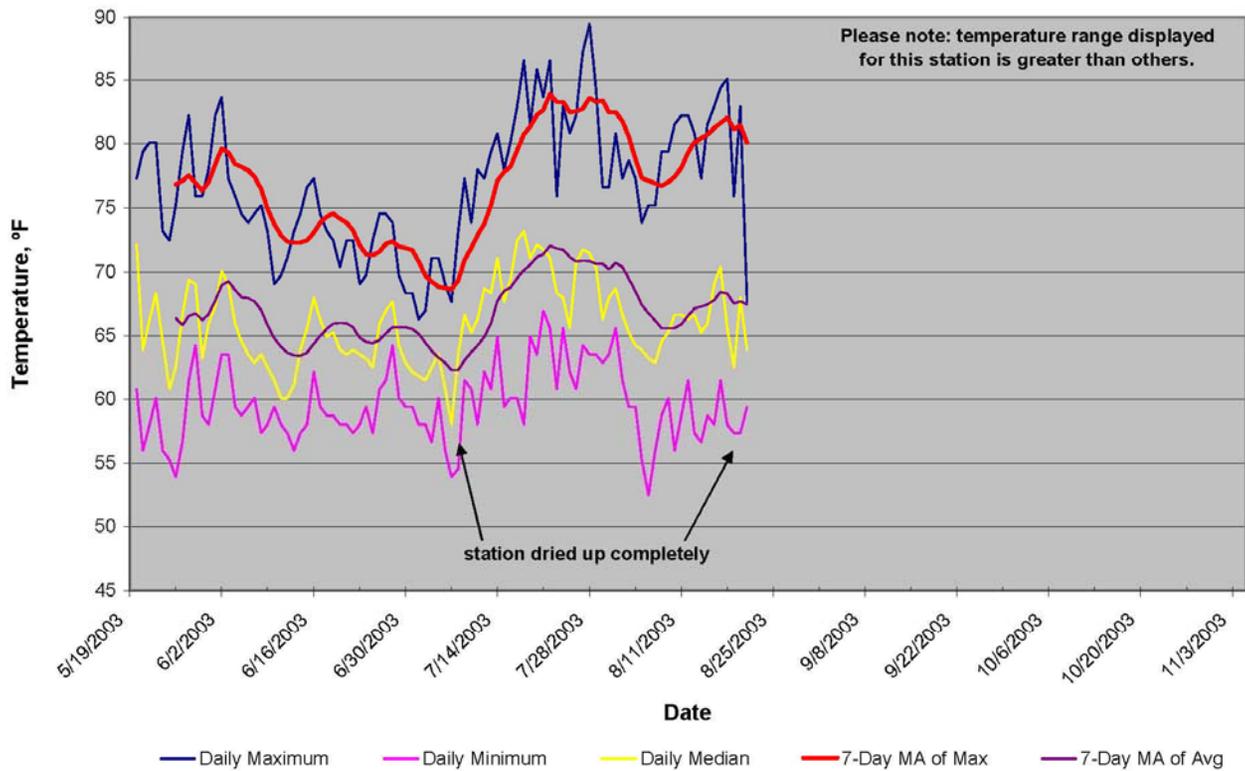
White Creek 2: May - August 2003



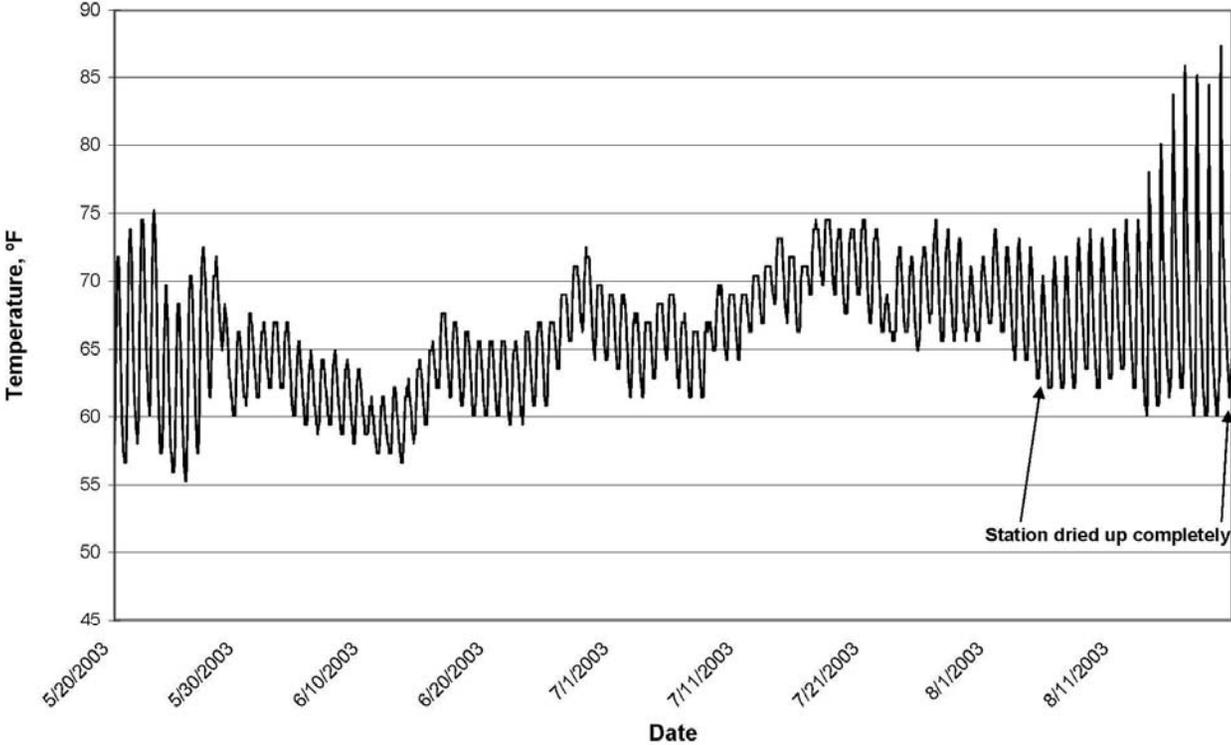


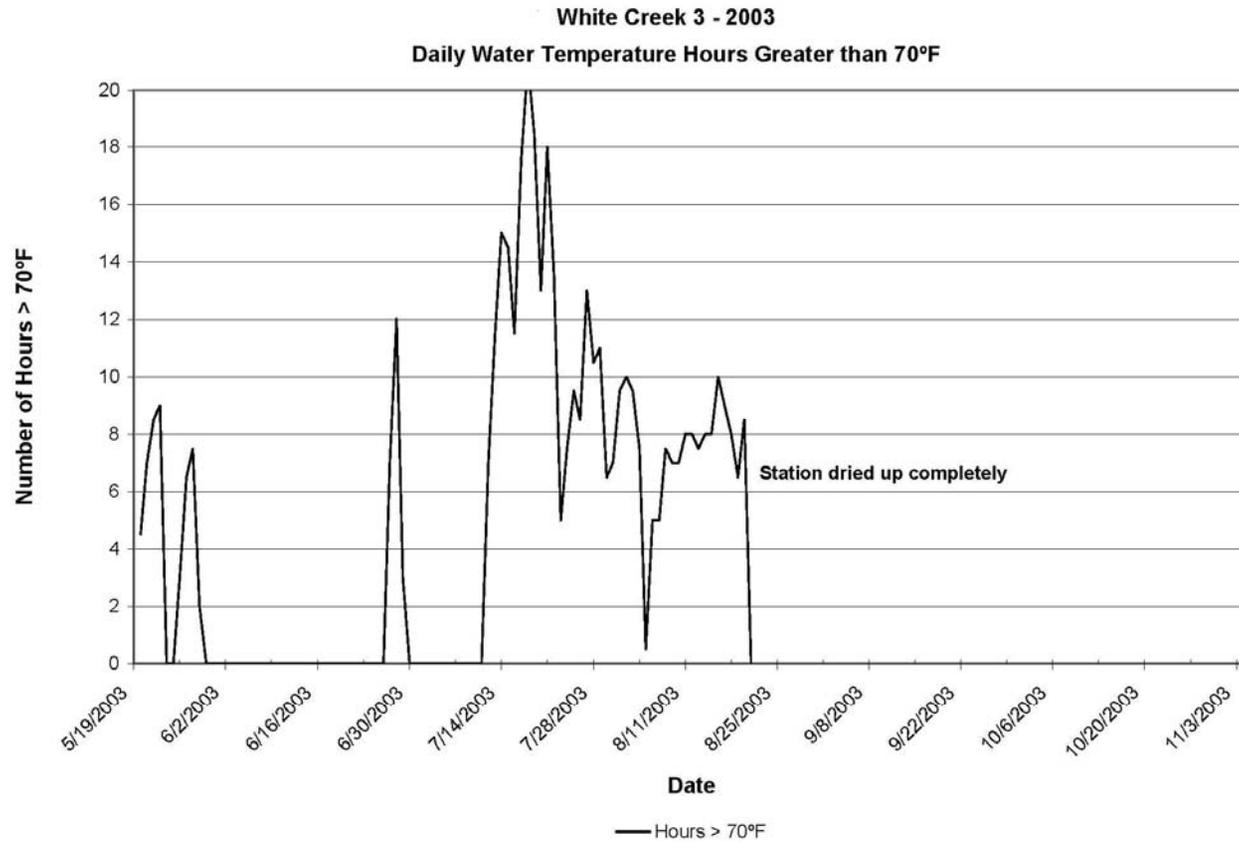


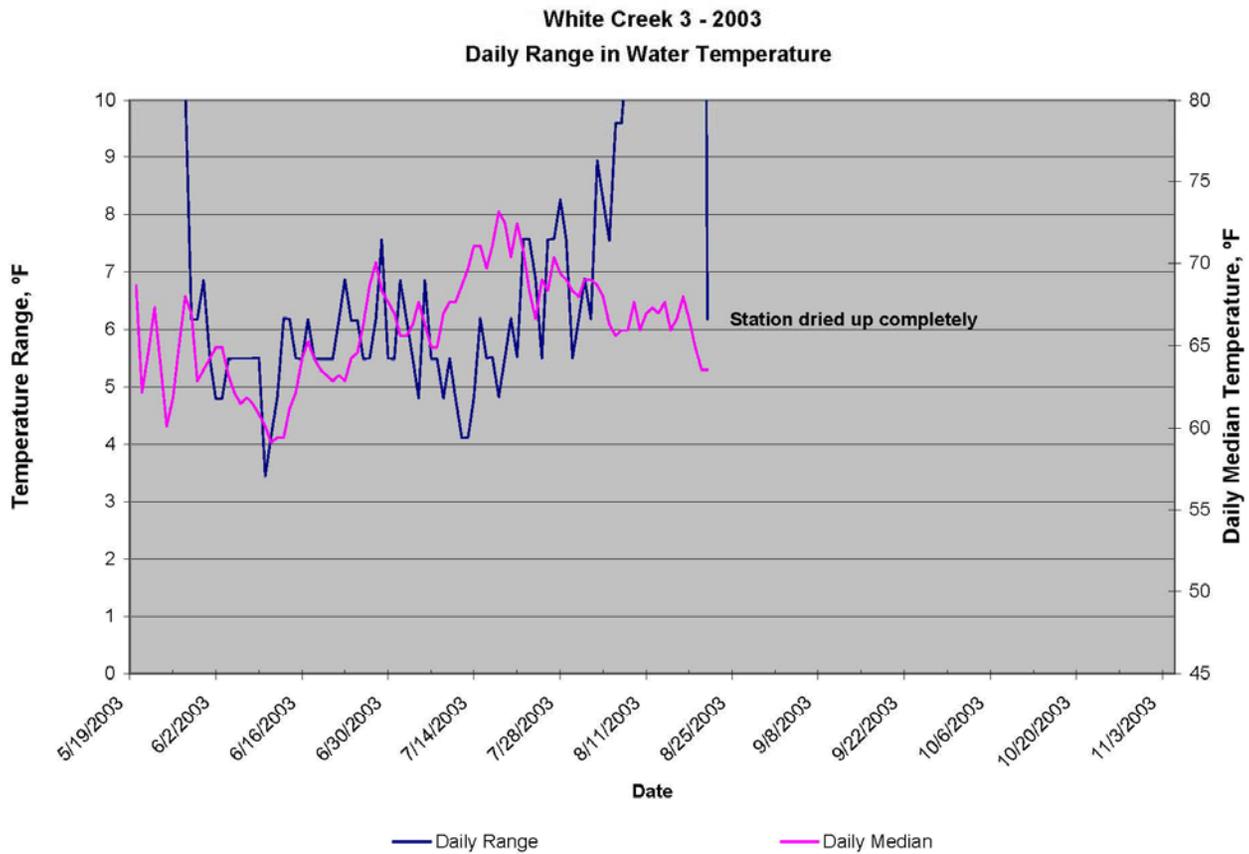
White Creek 2 - 2003
Daily Water Temperature Summary



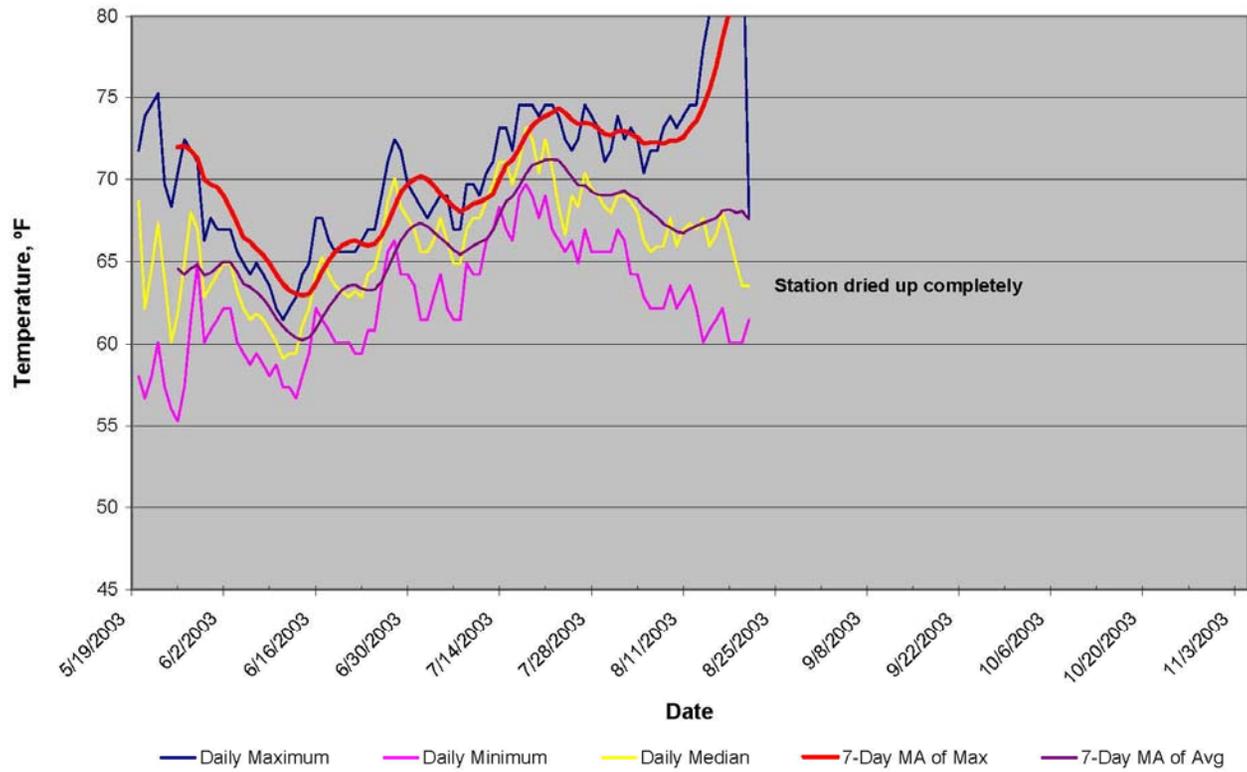
White Creek 3: May - August 2003



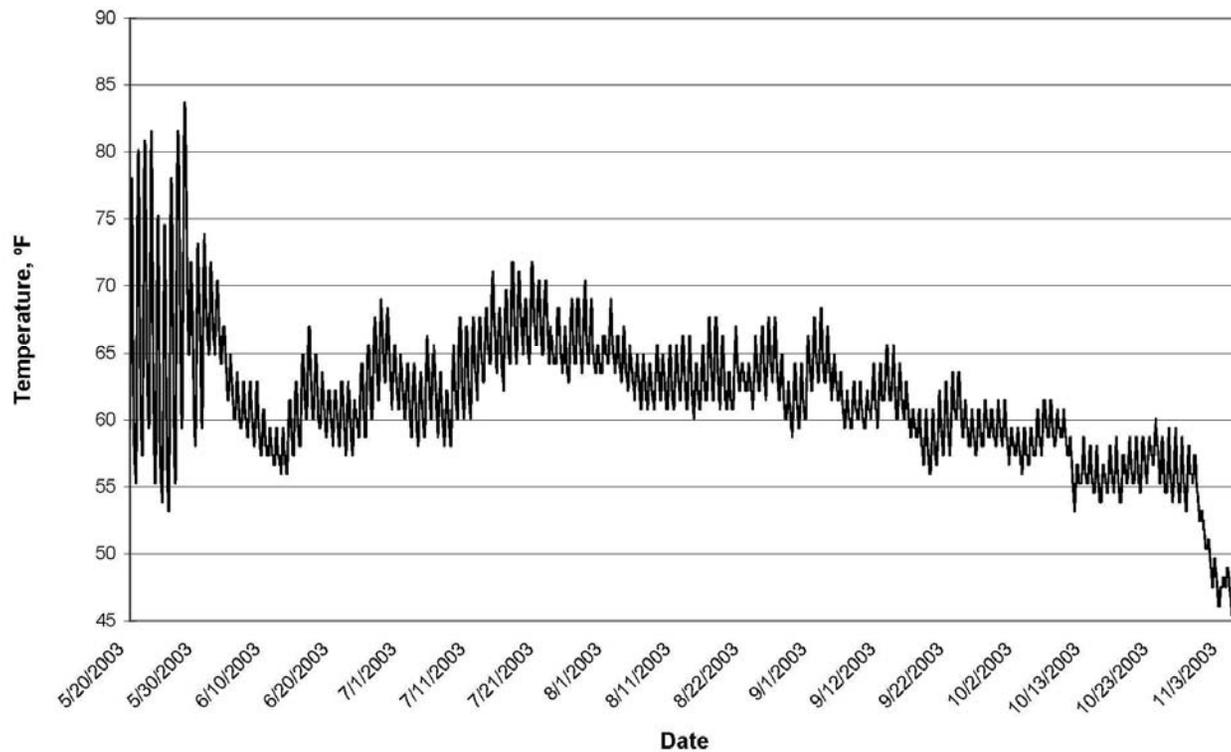




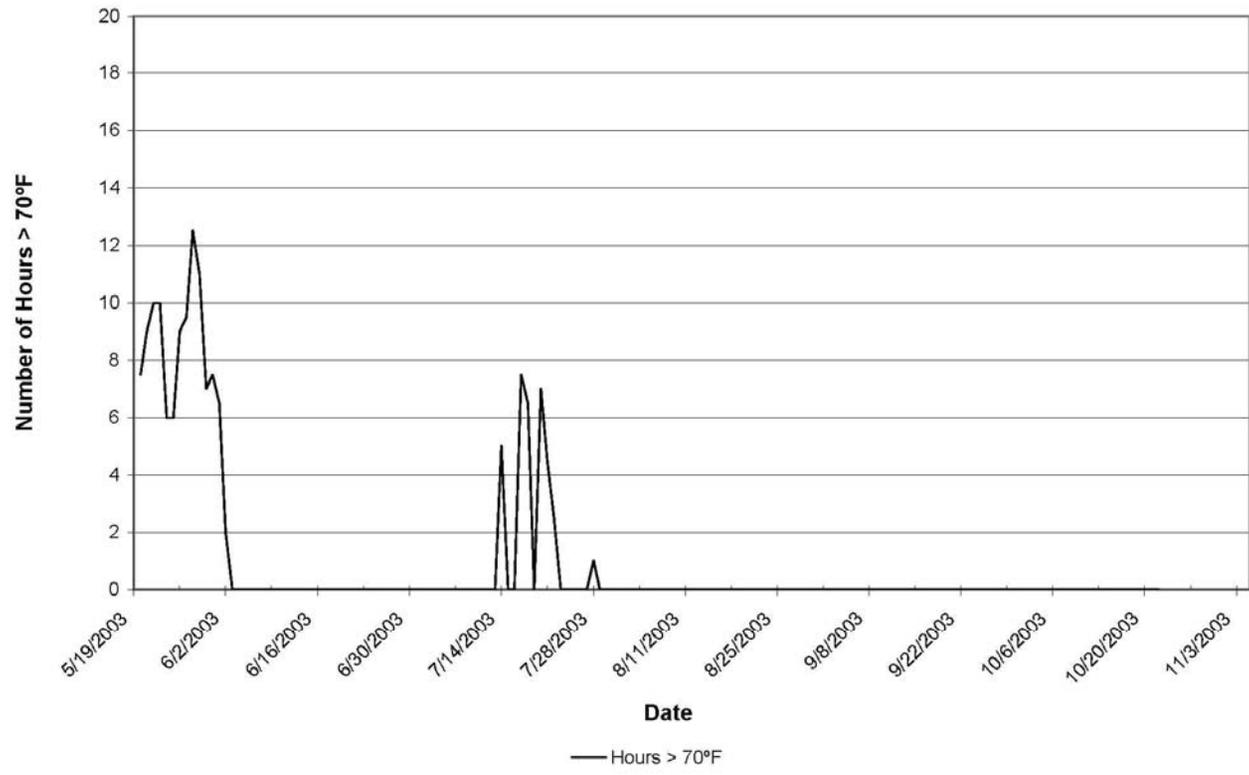
White Creek 3 - 2003
Daily Water Temperature Summary



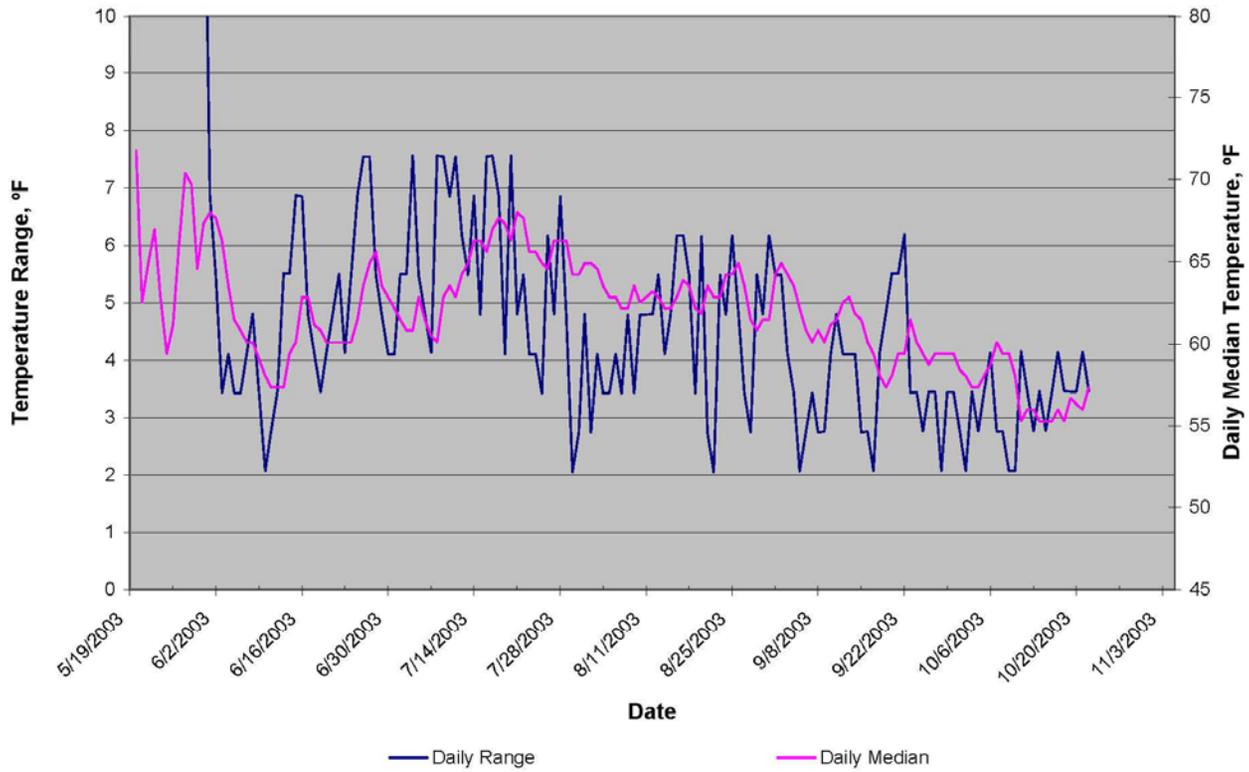
White Creek 4: May - November 2003



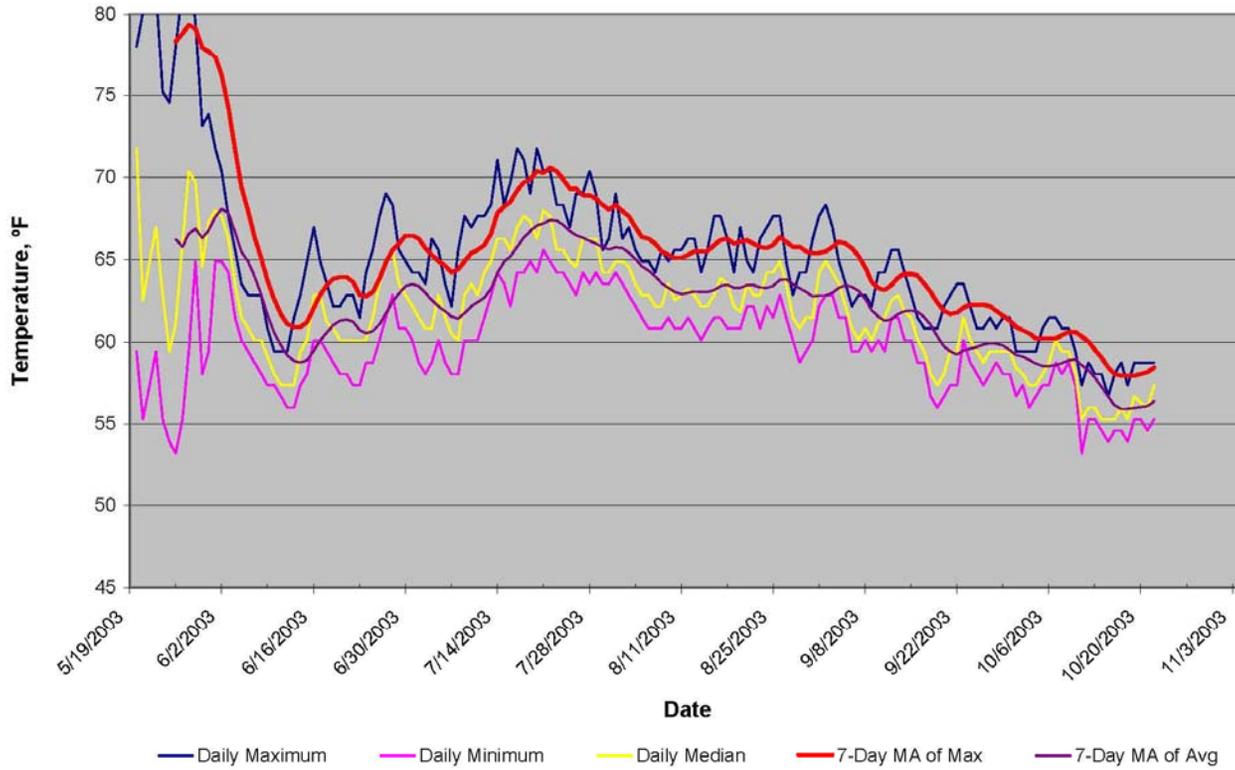
White Creek 4 - 2003
Daily Water Temperature Hours Greater than 70°F



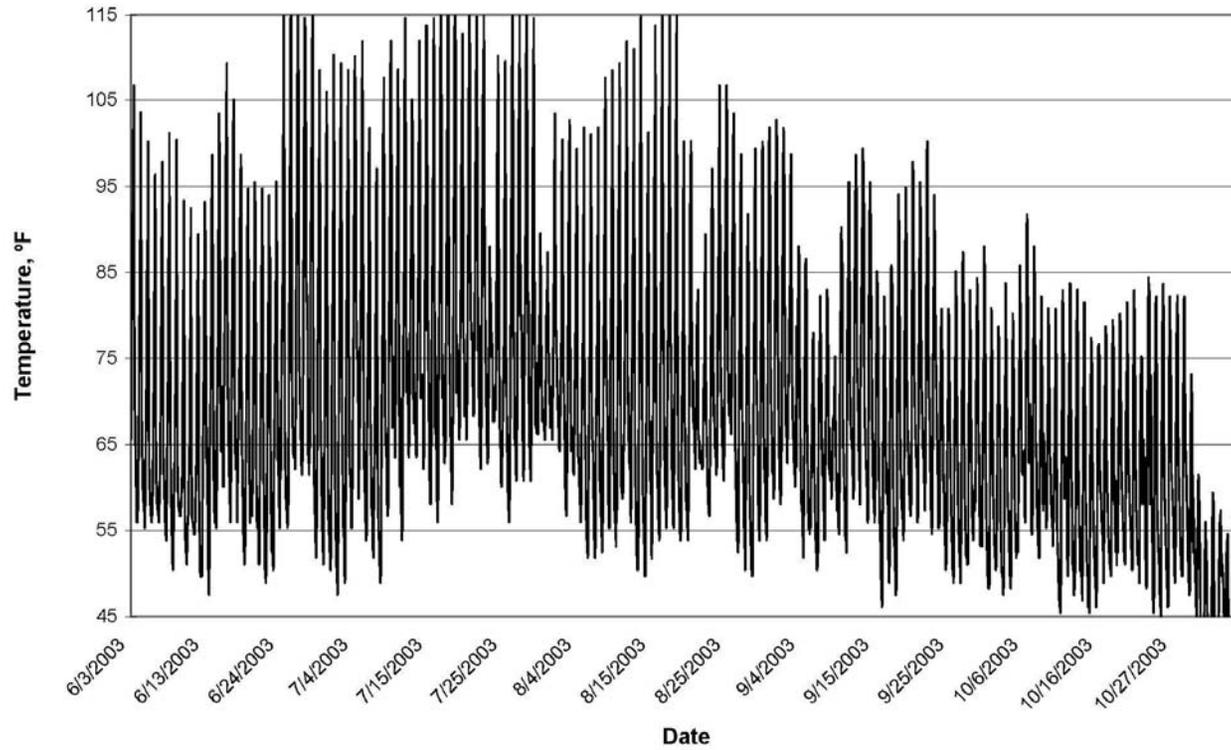
White Creek 4 - 2003
Daily Range in Water Temperature

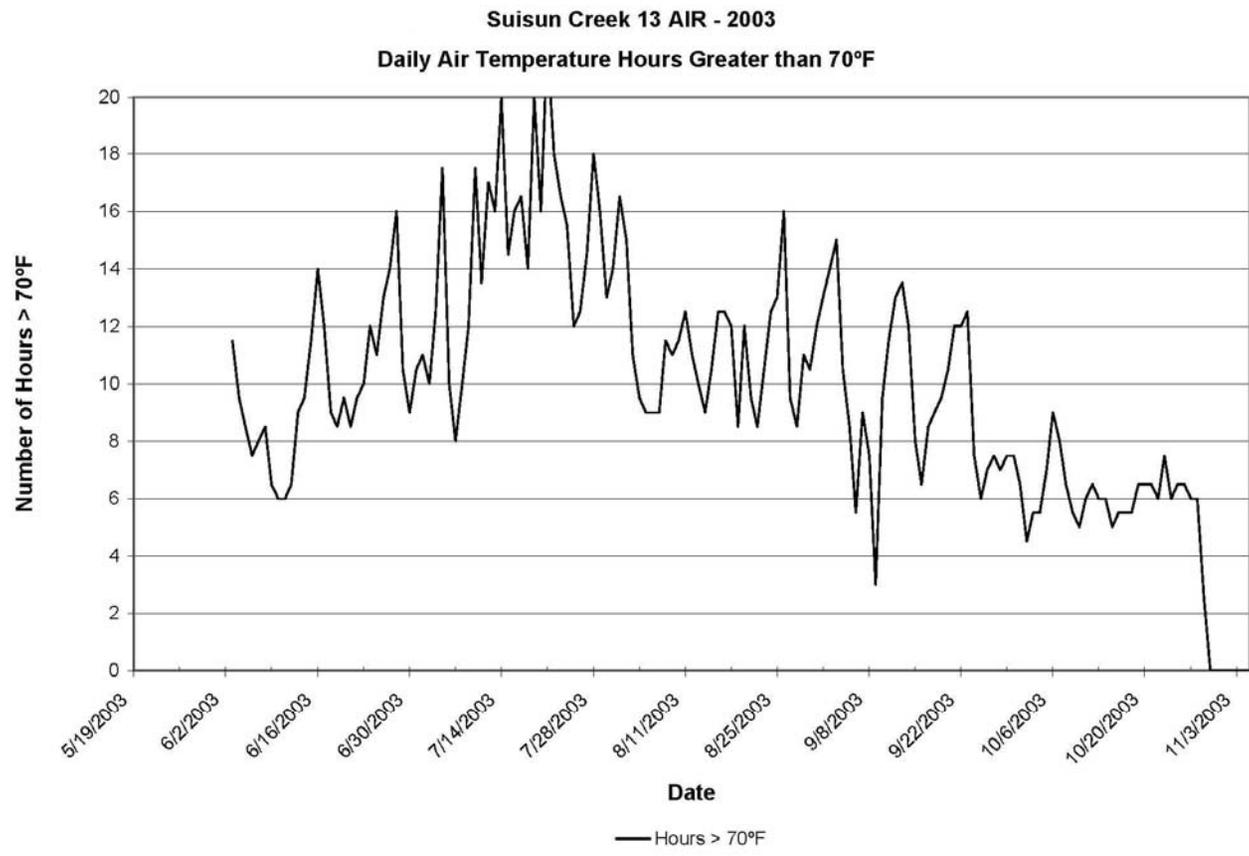


White Creek 4 - 2003
Daily Water Temperature Summary

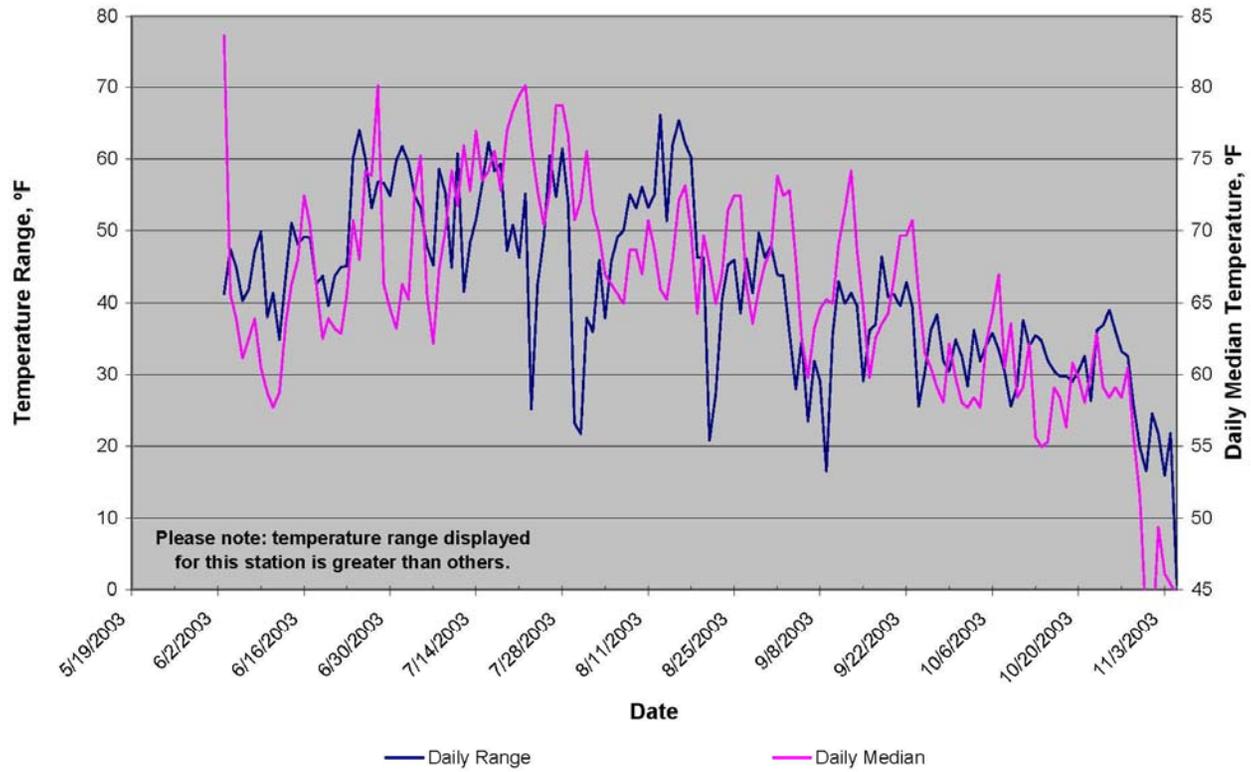


Suisun Creek 13 AIR: June - November 2003

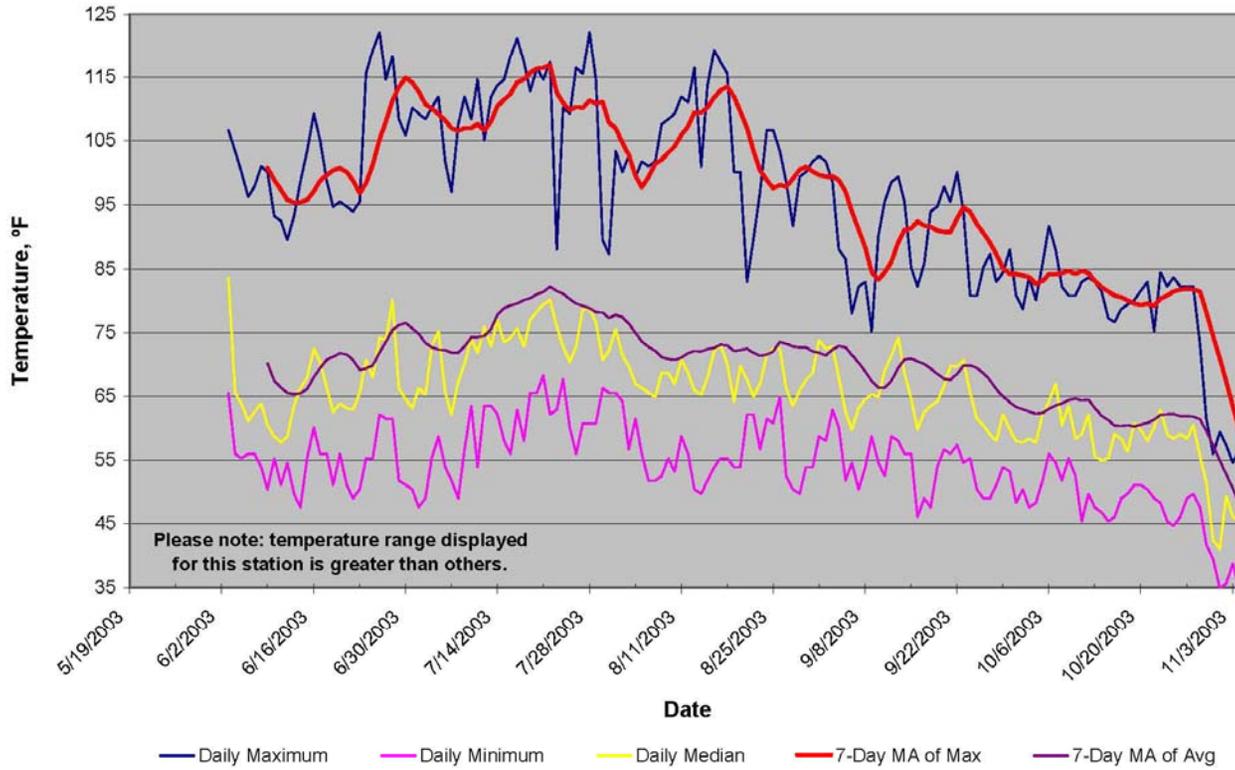




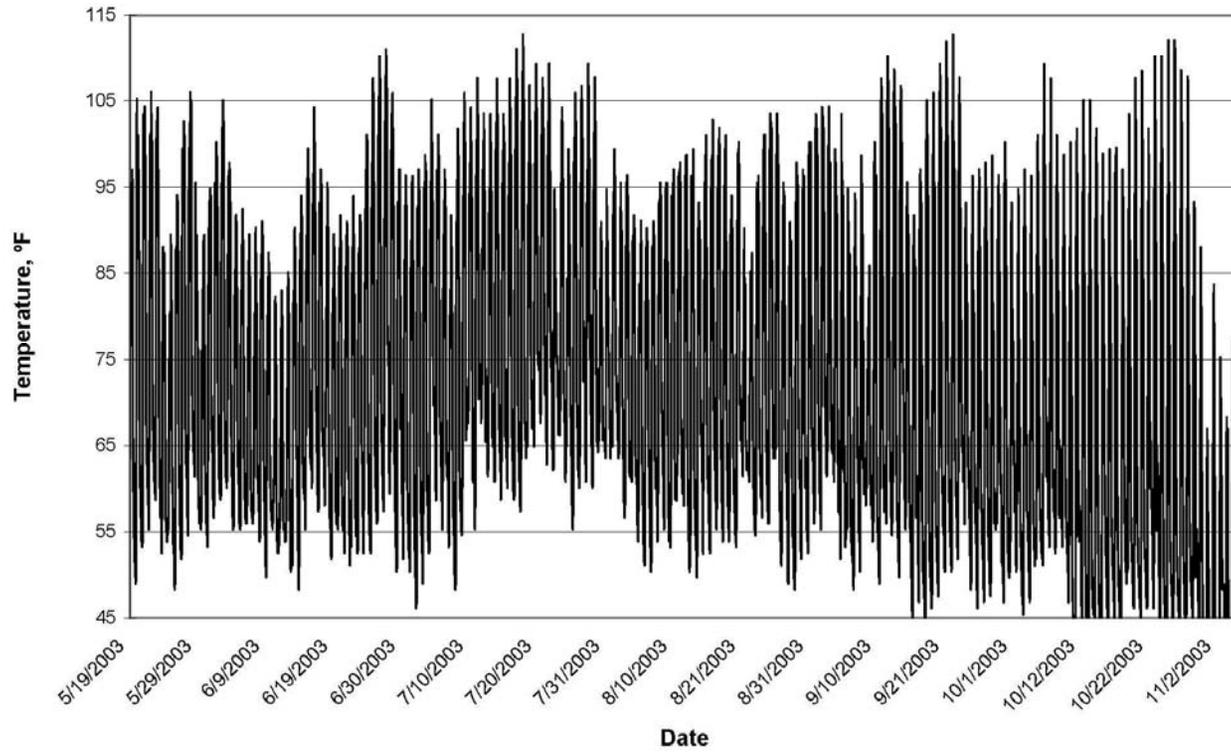
**Suisun Creek 13 AIR - 2003
Daily Range in Air Temperature**

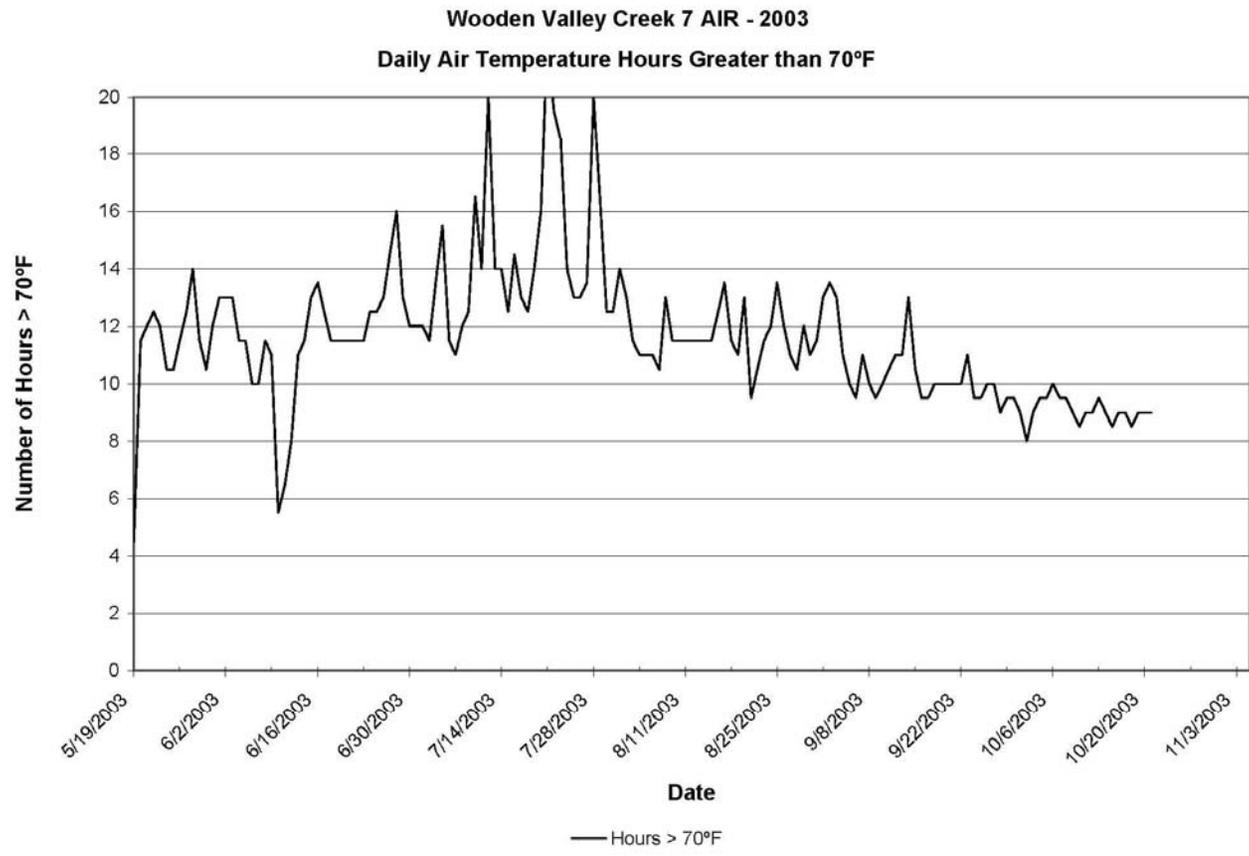


Suisun Creek 13 AIR - 2003
Daily Air Temperature Summary

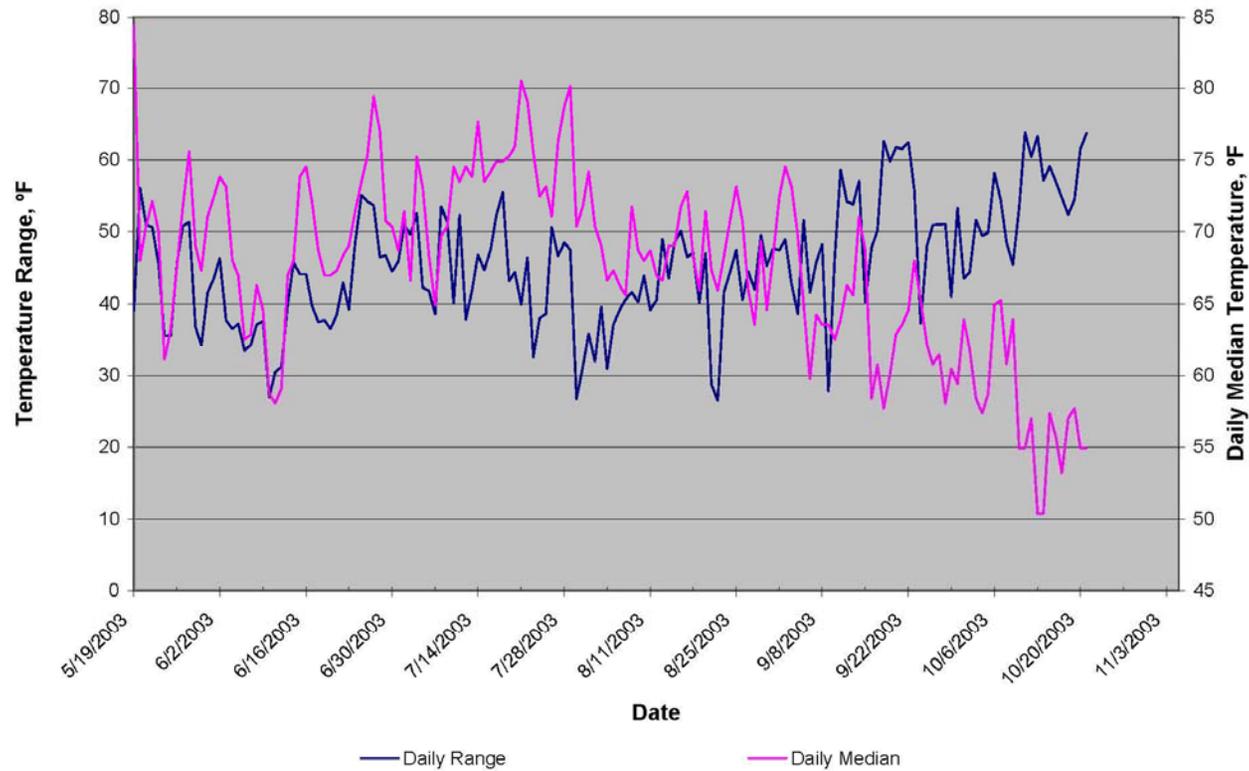


Wooden Valley Creek 7 AIR: May - November 2003

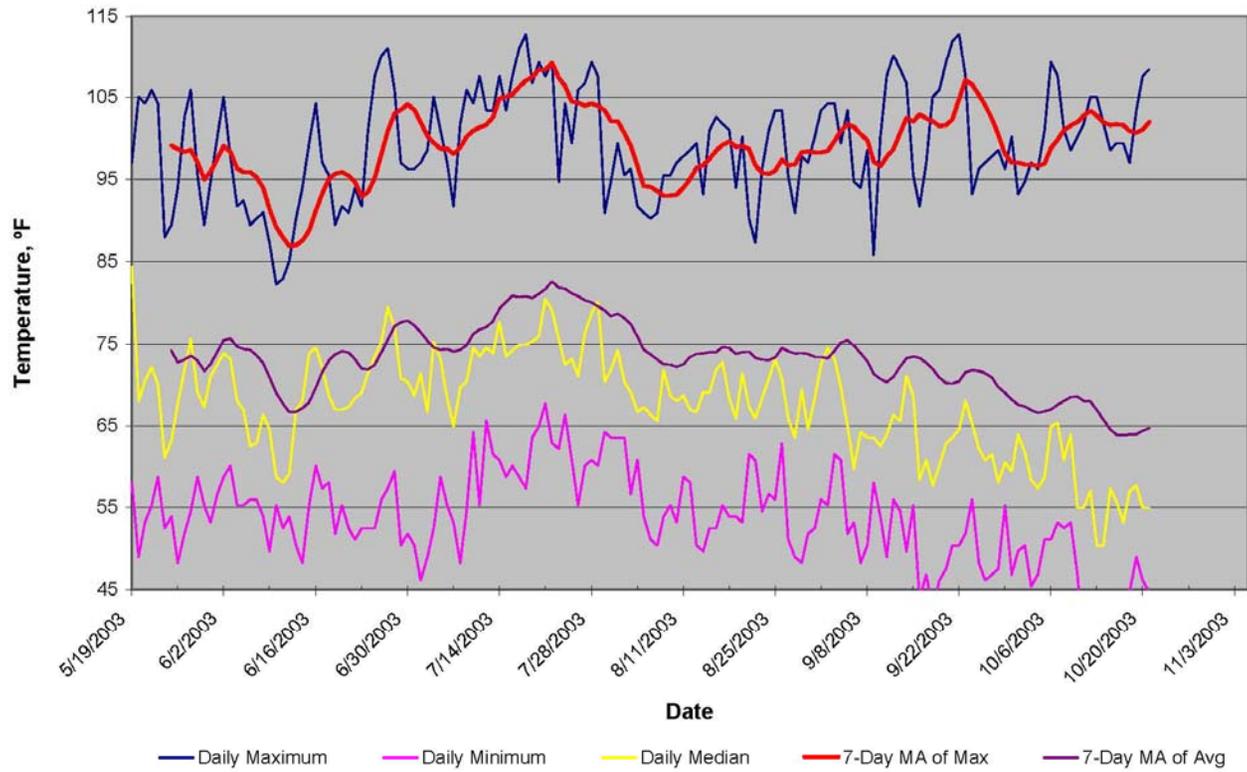




Wooden Valley Creek 7 AIR - 2003
 Daily Range in Air Temperature

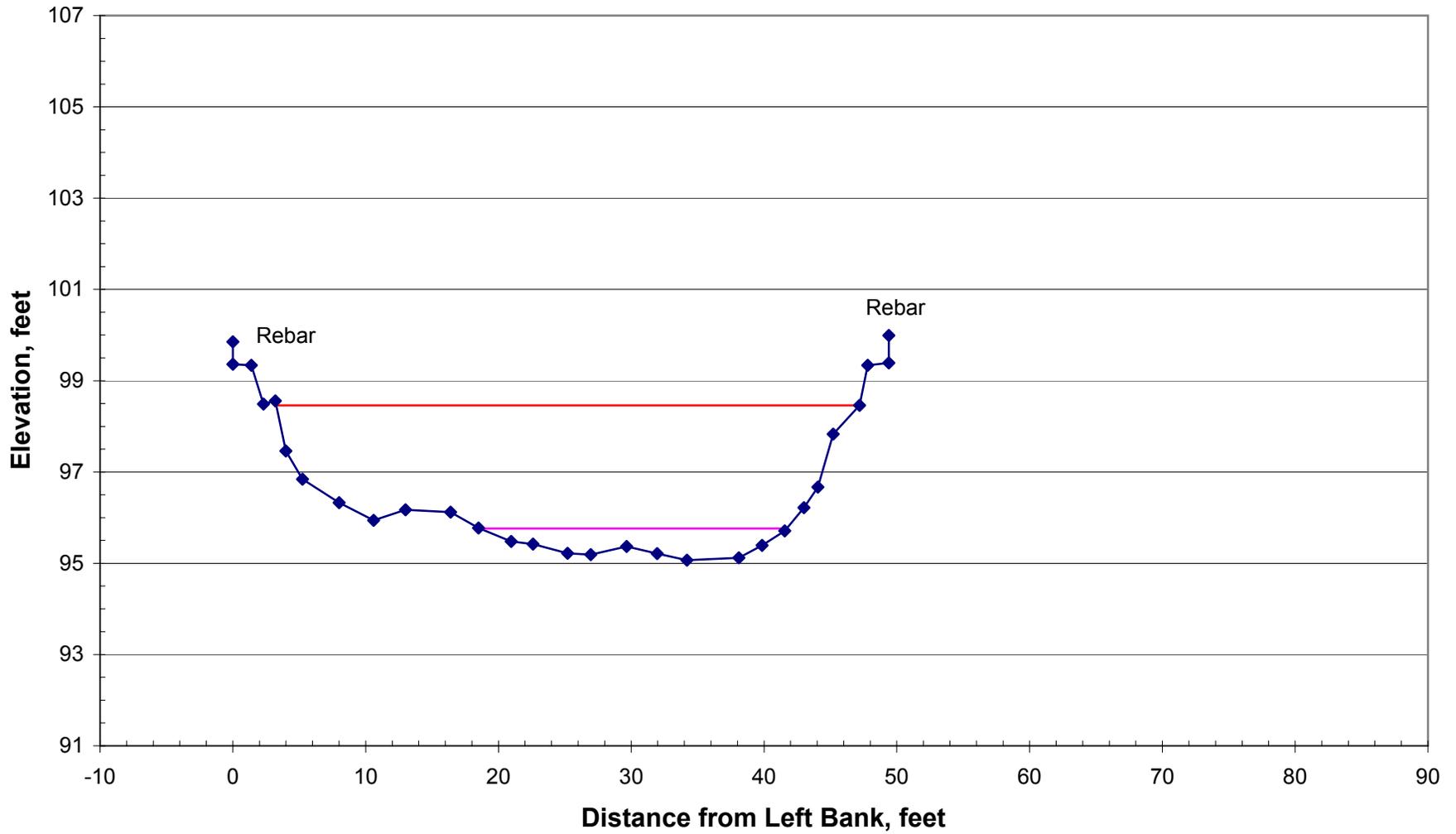


Wooden Valley Creek 7 AIR - 2003
Daily Air Temperature Summary

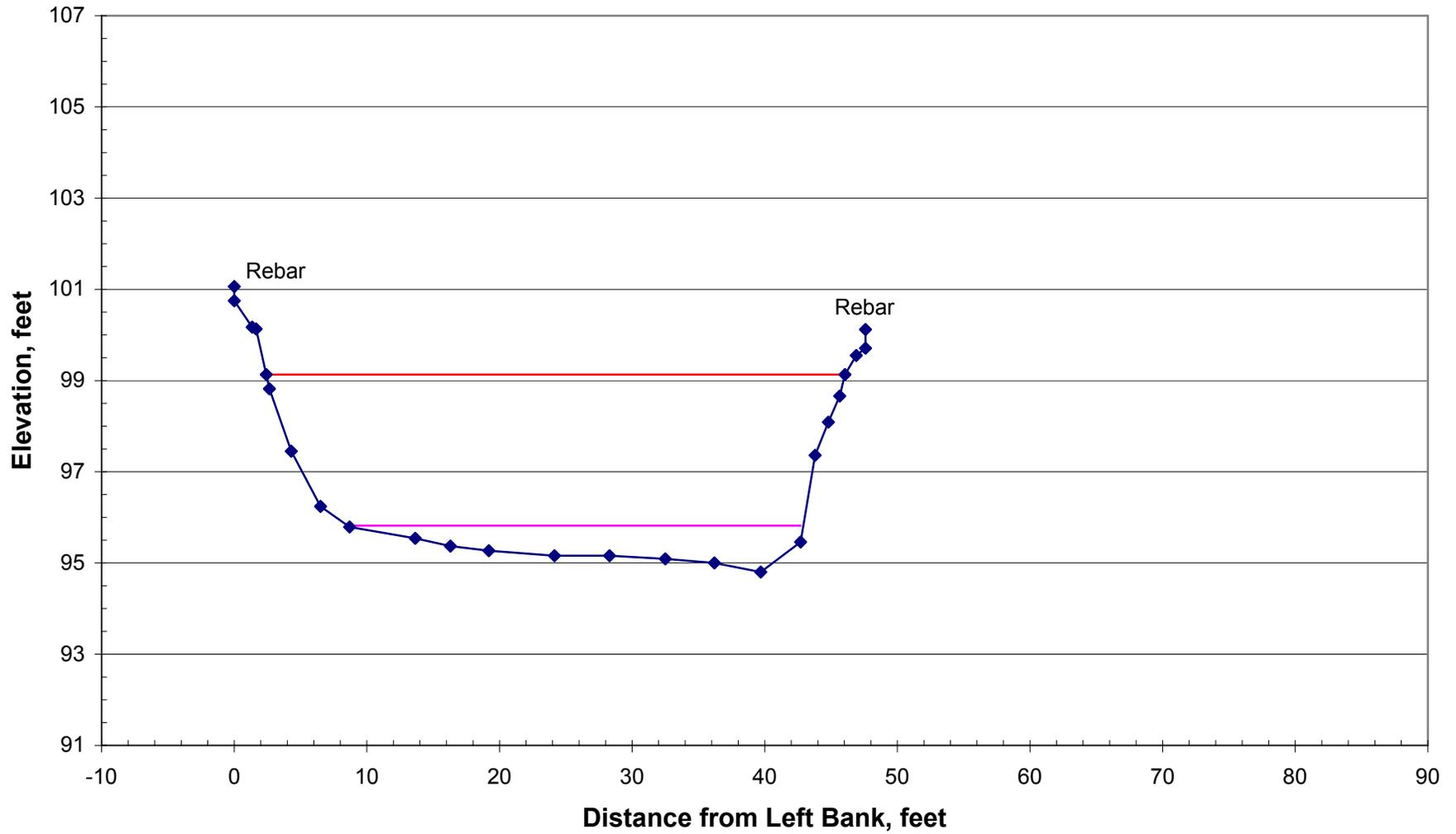


APPENDIX 2
SURVEYS OF CHANNEL CROSS SECTIONS IN STUDY REACHES

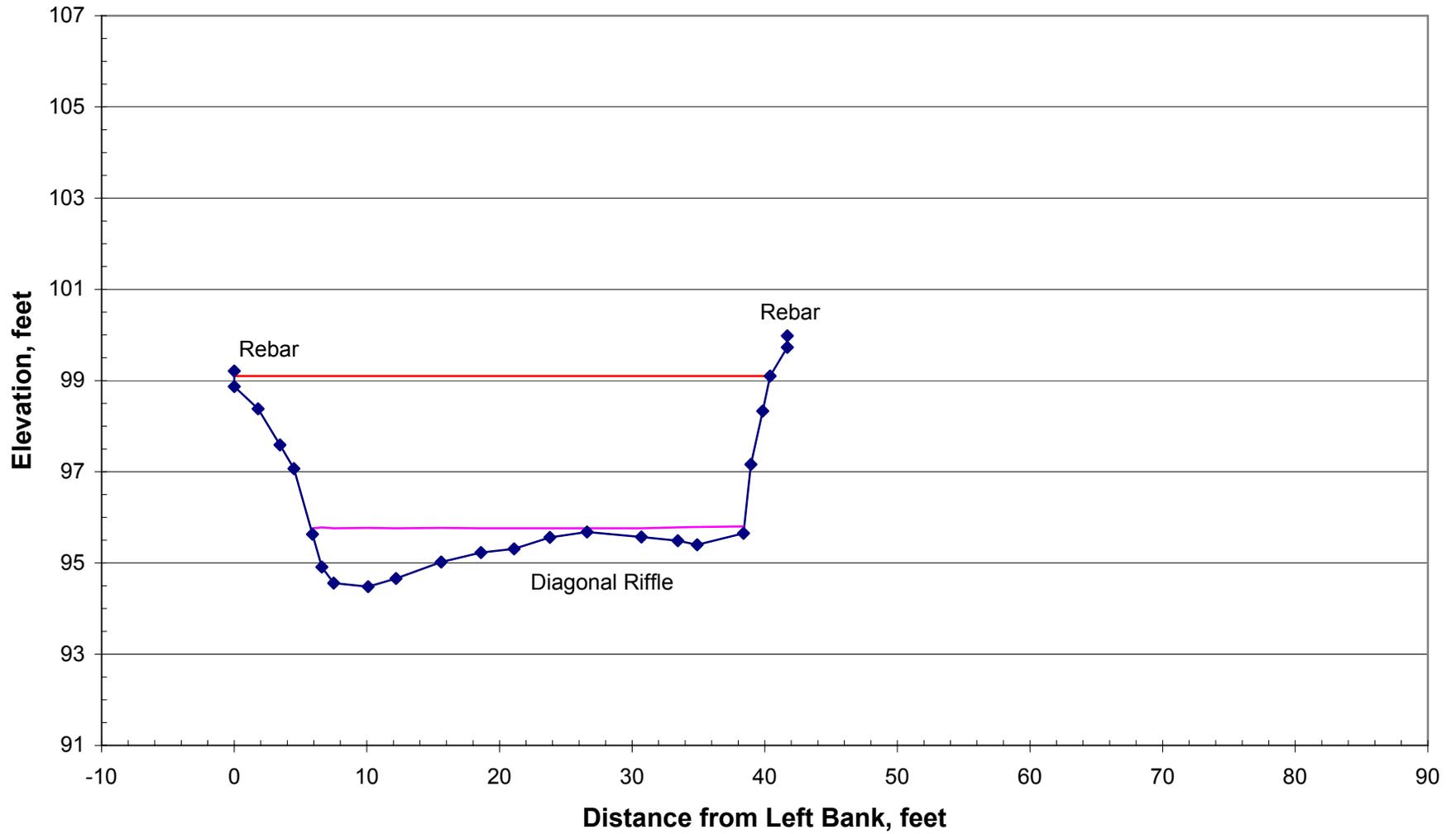
Suisun Creek - Study Reach #1
Cross Section 1: October 2001



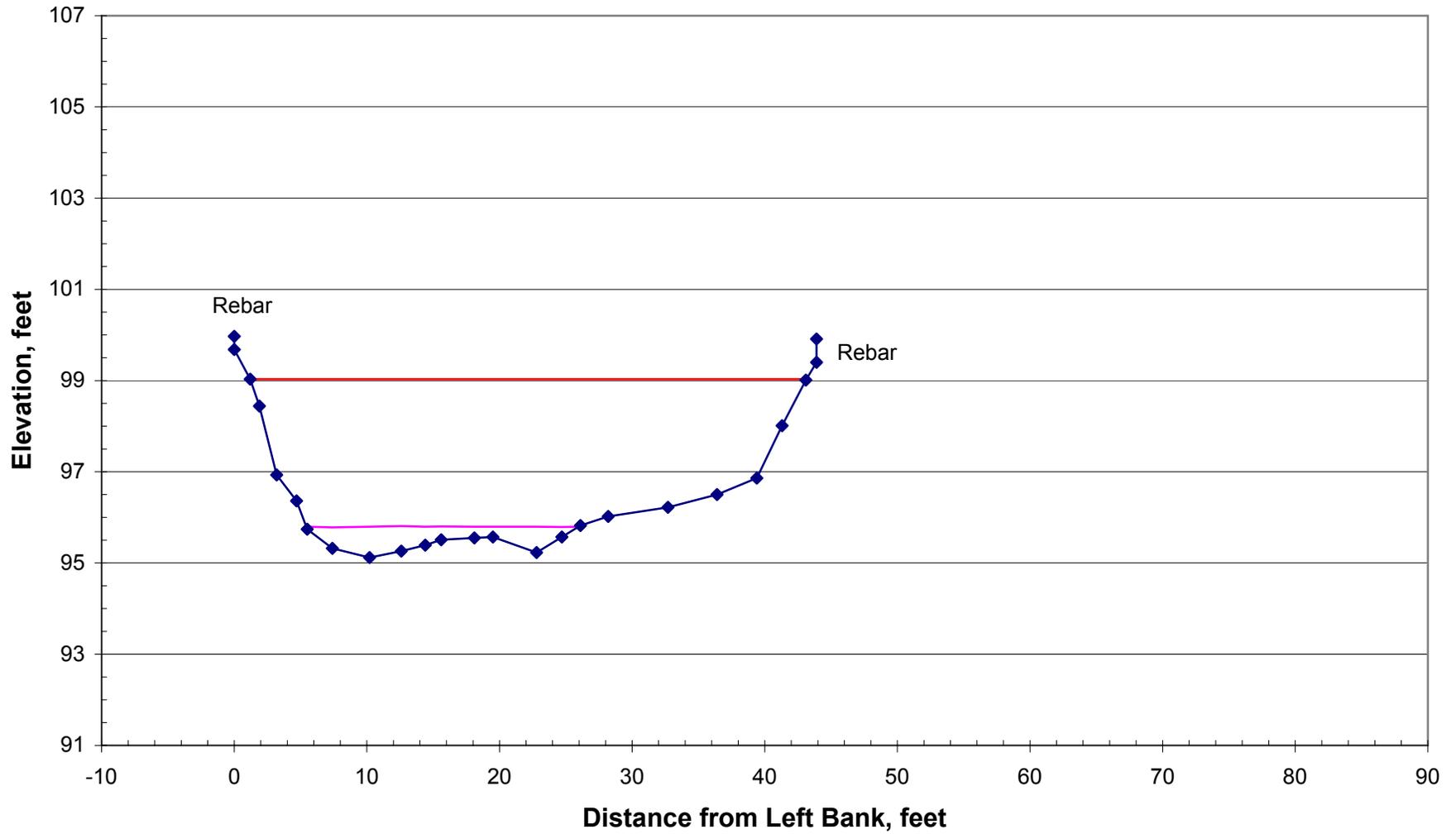
Suisun Creek - Study Reach #1
Cross Section 2: October 2001



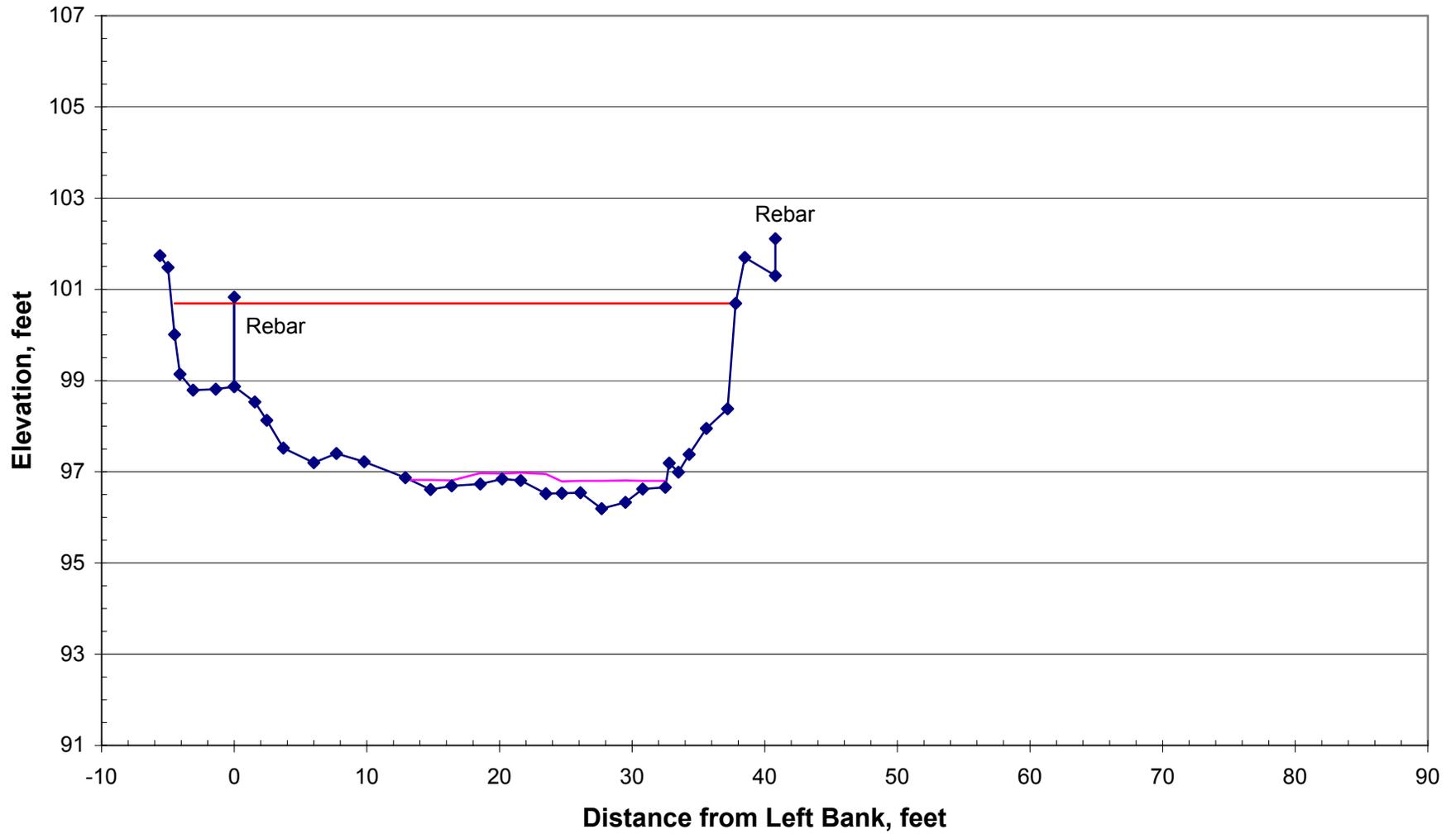
Suisun Creek - Study Reach #1
Cross Section 3: October 2001



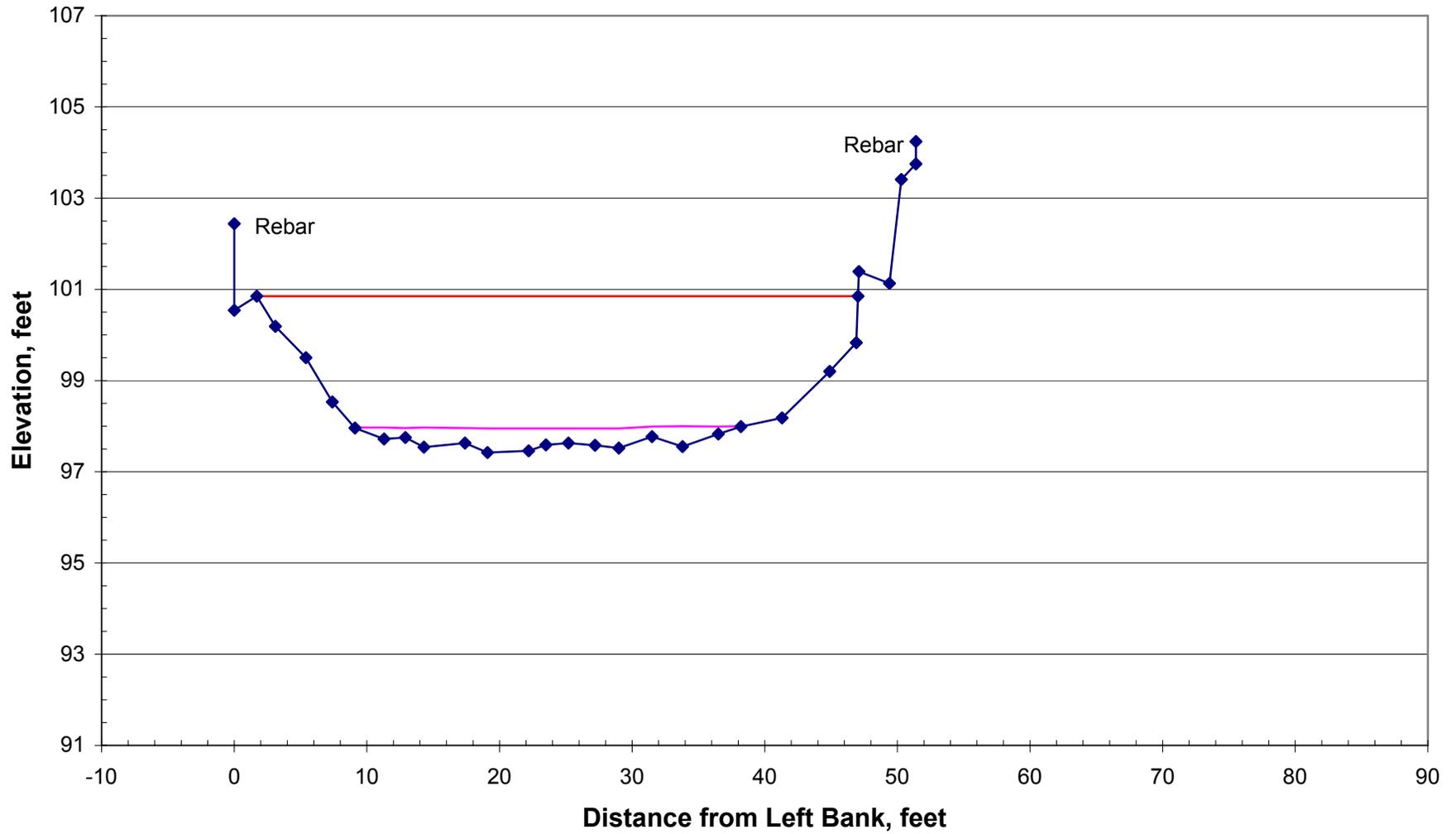
Suisun Creek - Study Reach #1
Cross Section 4: October 2001



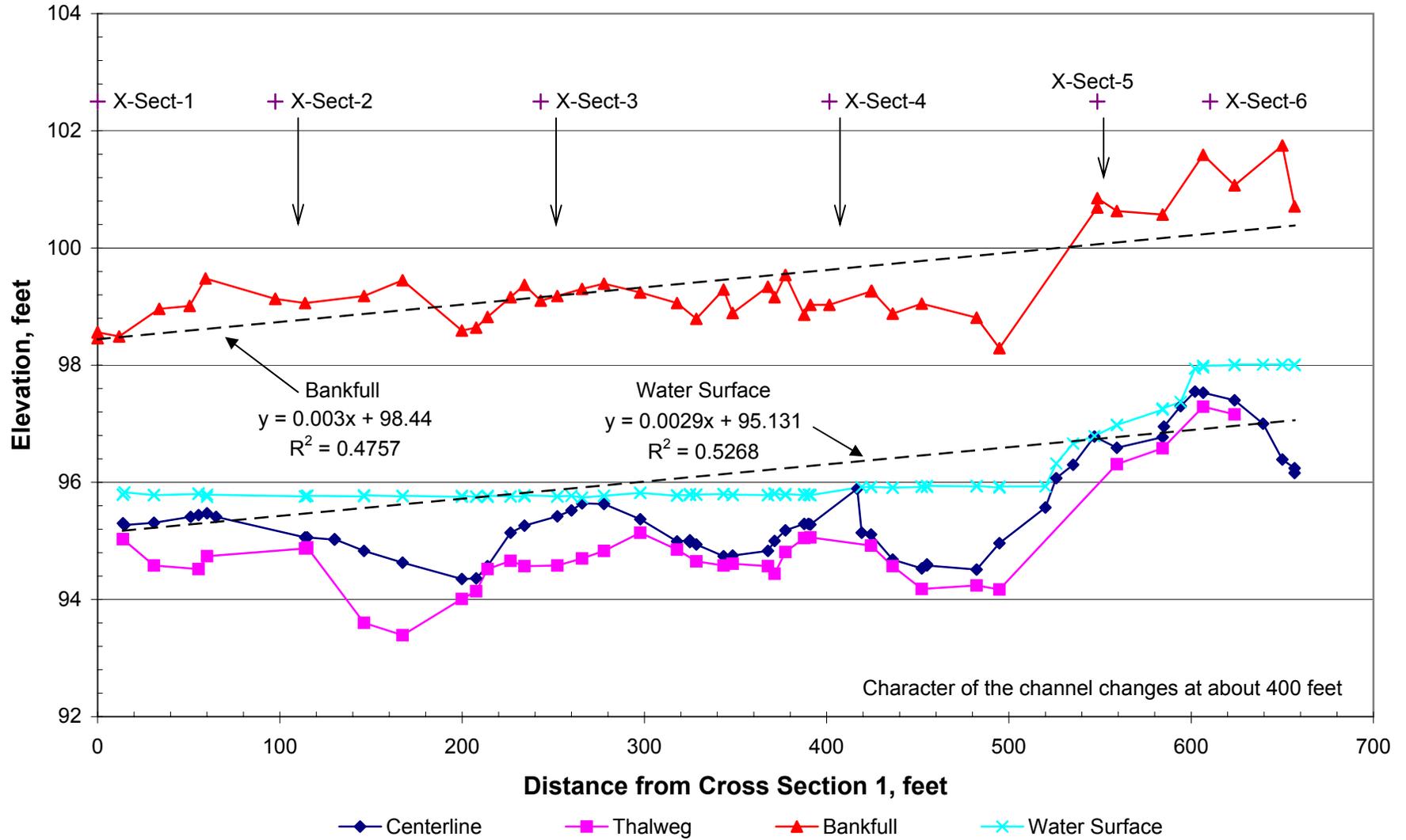
Suisun Creek - Study Reach #1
Cross Section 5: October 2001



Suisun Creek - Study Reach #1
Cross Section 6: October 2001

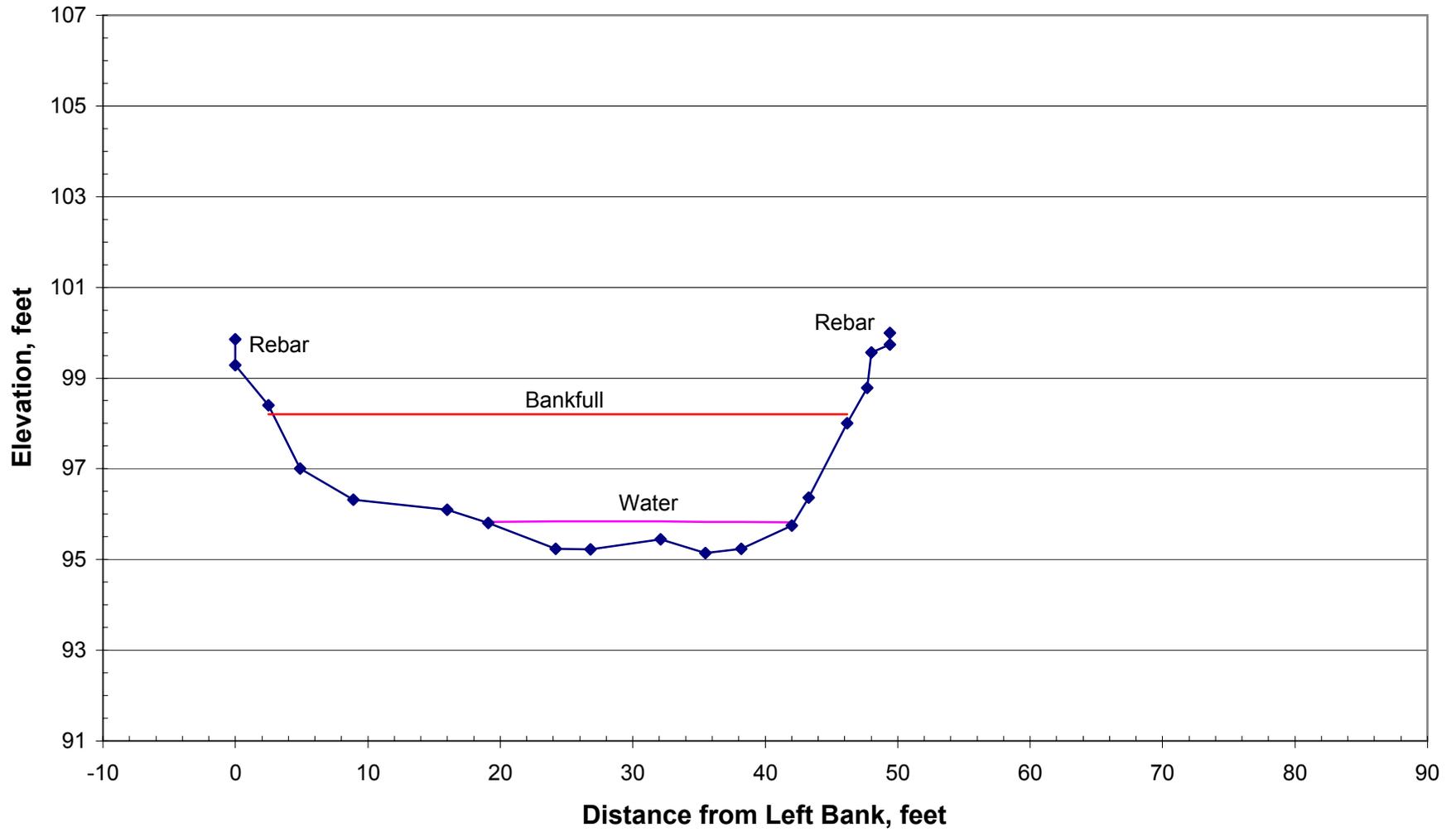


Suisun Creek - Study Reach #1 Longitudinal Profile: October 2001

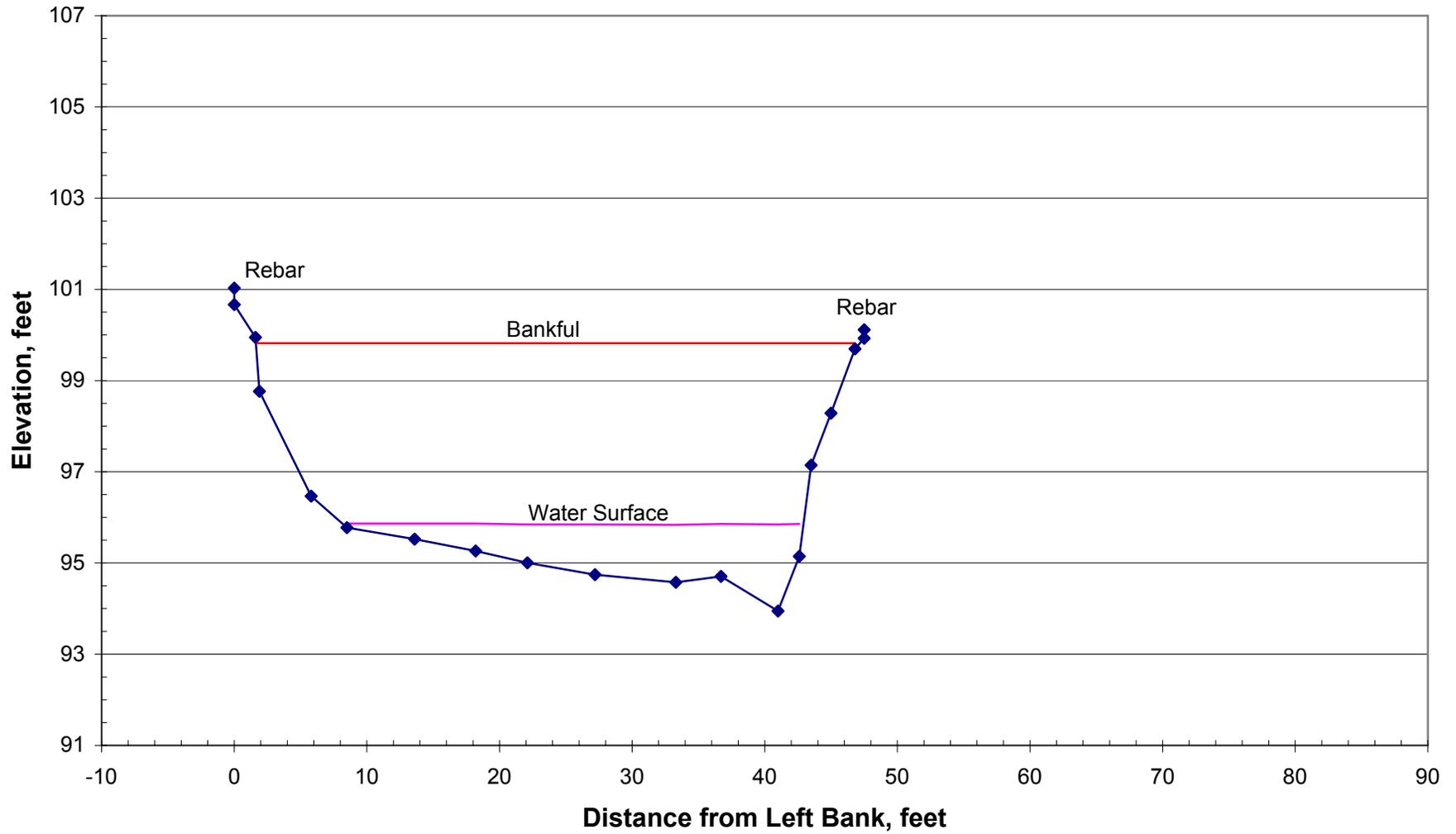


Suisun Creek - Study Reach #1

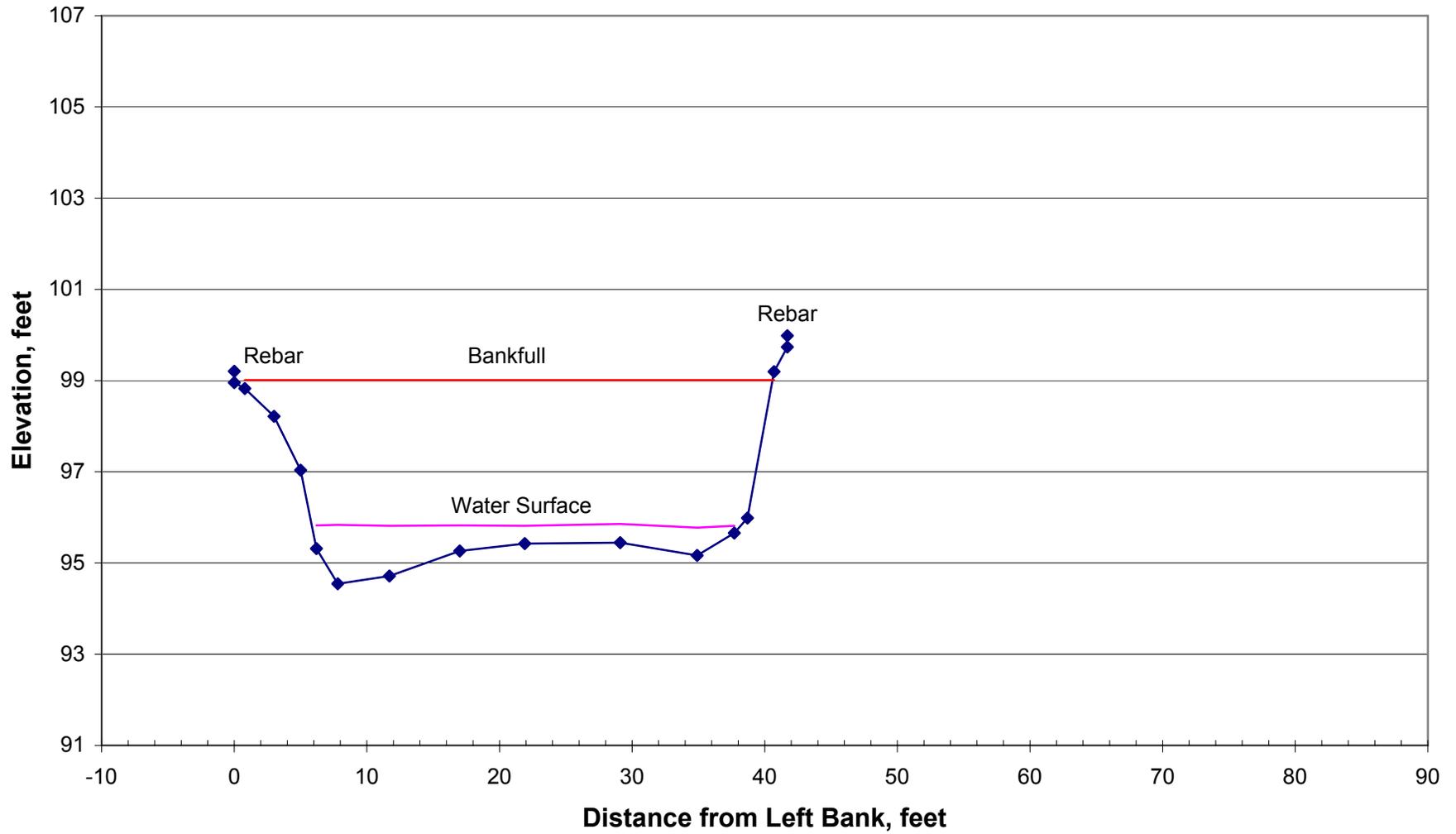
Cross Section 1: August 2002



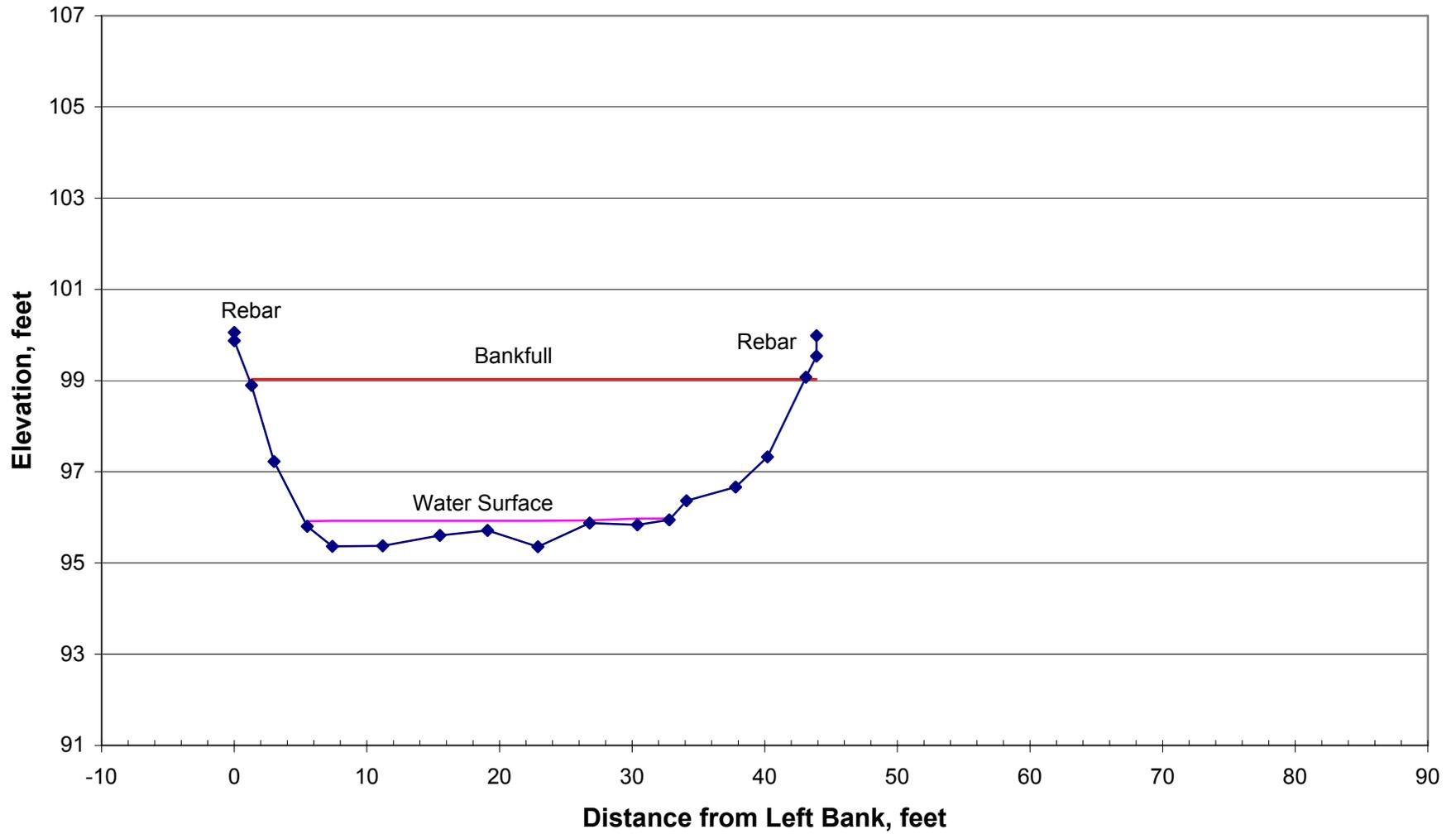
Suisun Creek - Study Reach #1
Cross Section 2: August 2002



Suisun Creek - Study Reach #1
Cross Section 3: August 2002

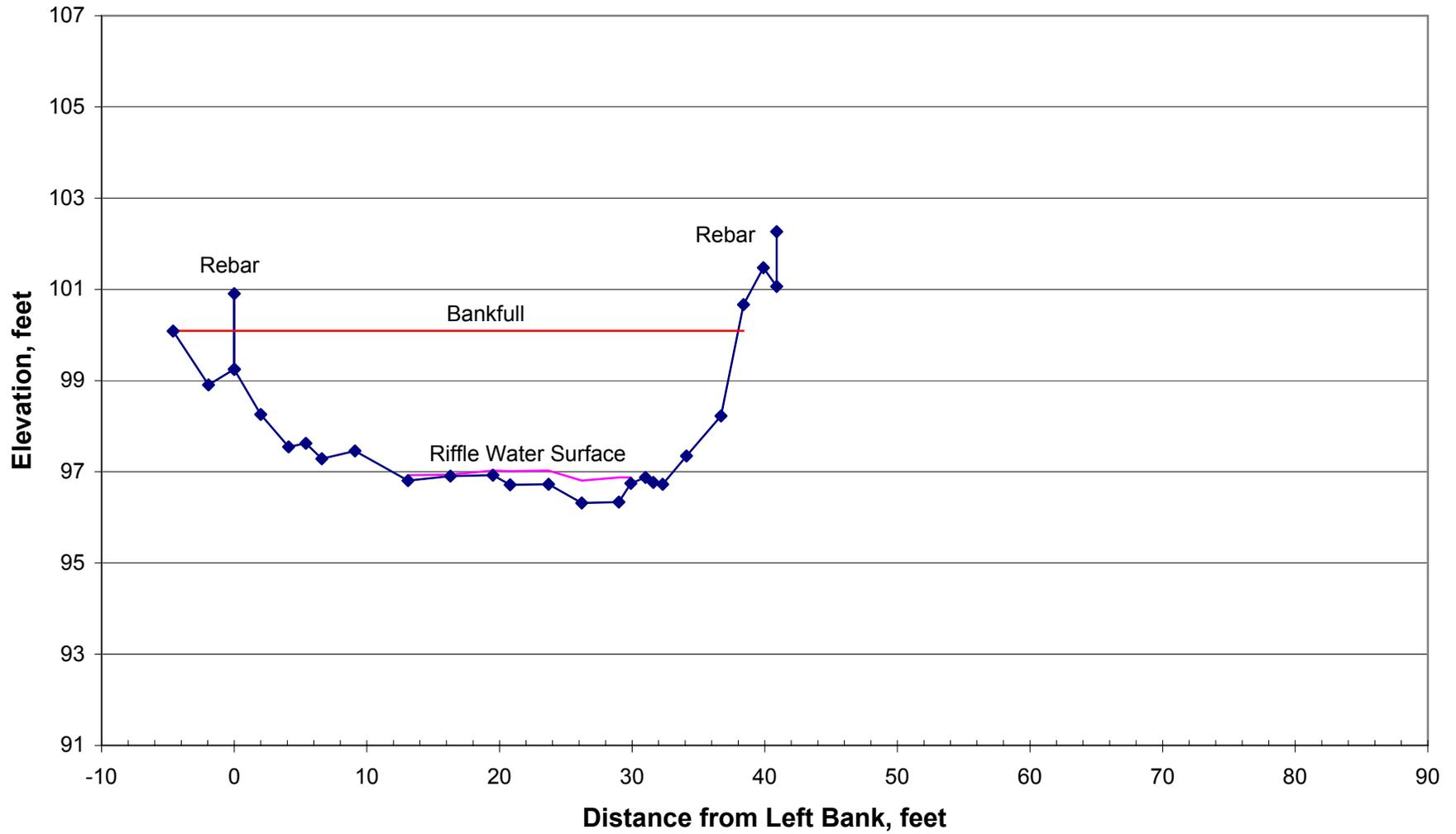


Suisun Creek - Study Reach #1
Cross Section 4: August 2002

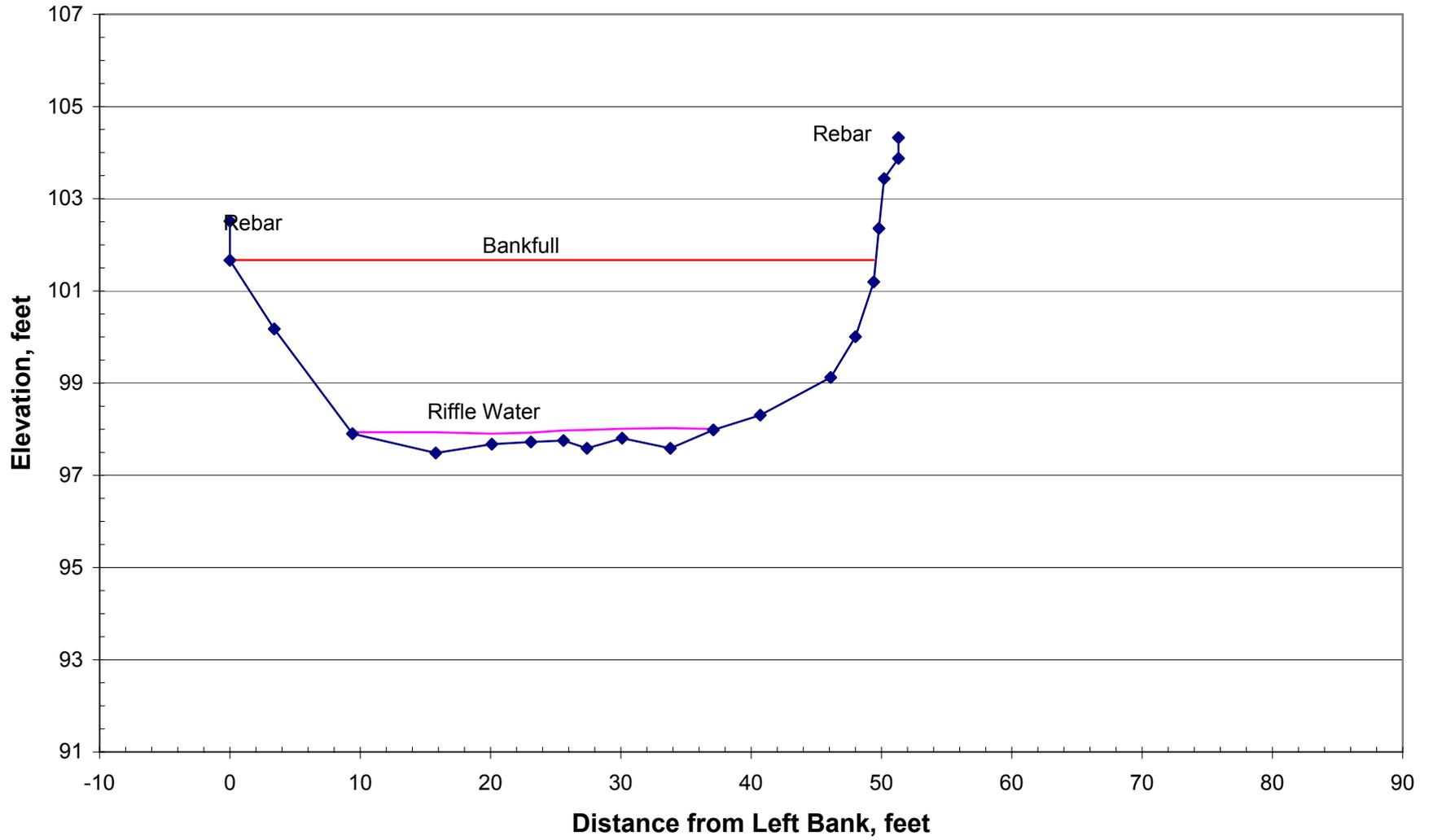


Suisun Creek - Study Reach #1

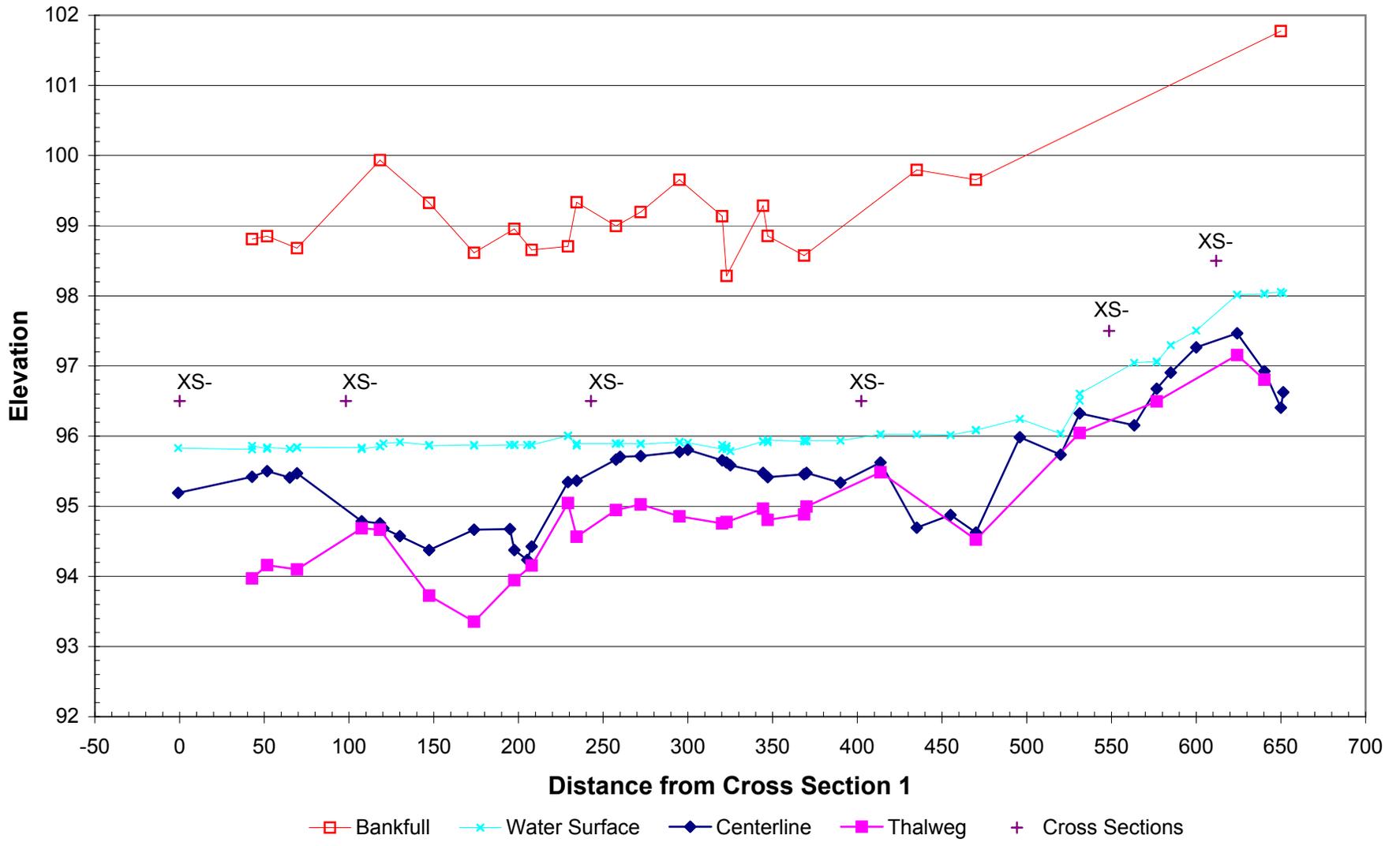
Cross Section 5: August 2002



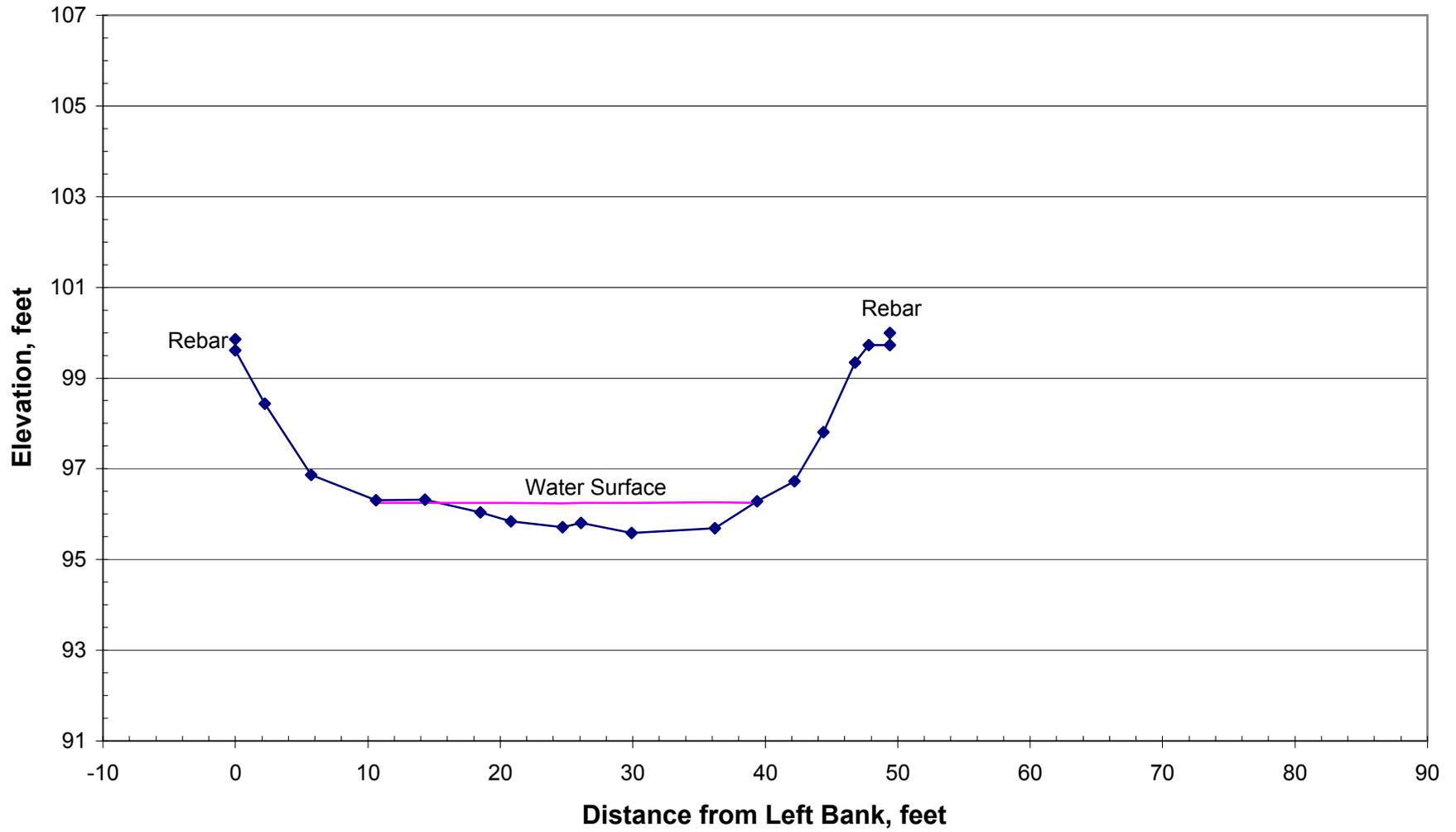
Suisun Creek - Study Reach #1
Cross Section 6: August 2002



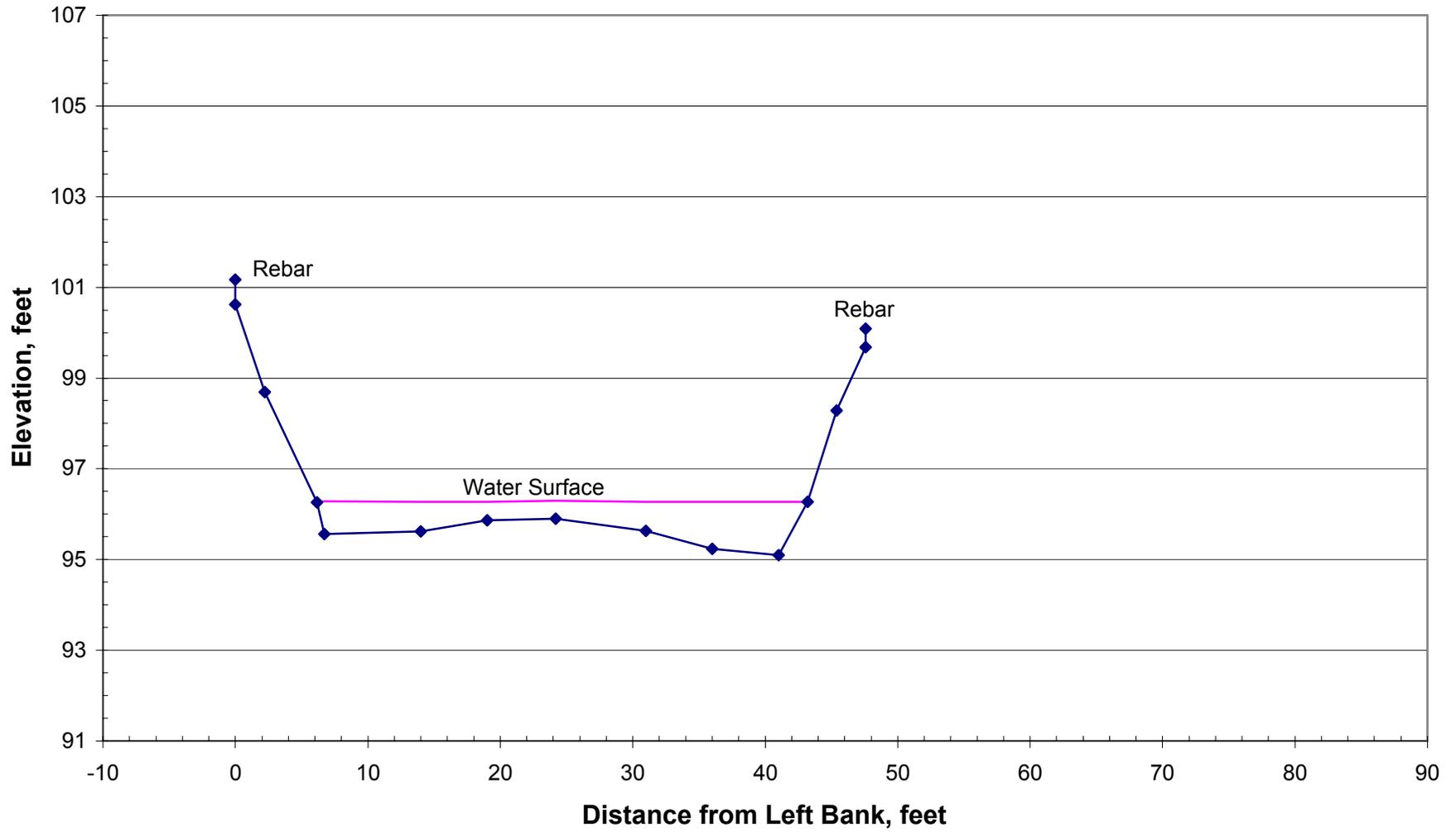
Suisun Creek - Study Reach #1 Longitudinal Profile: August 2002



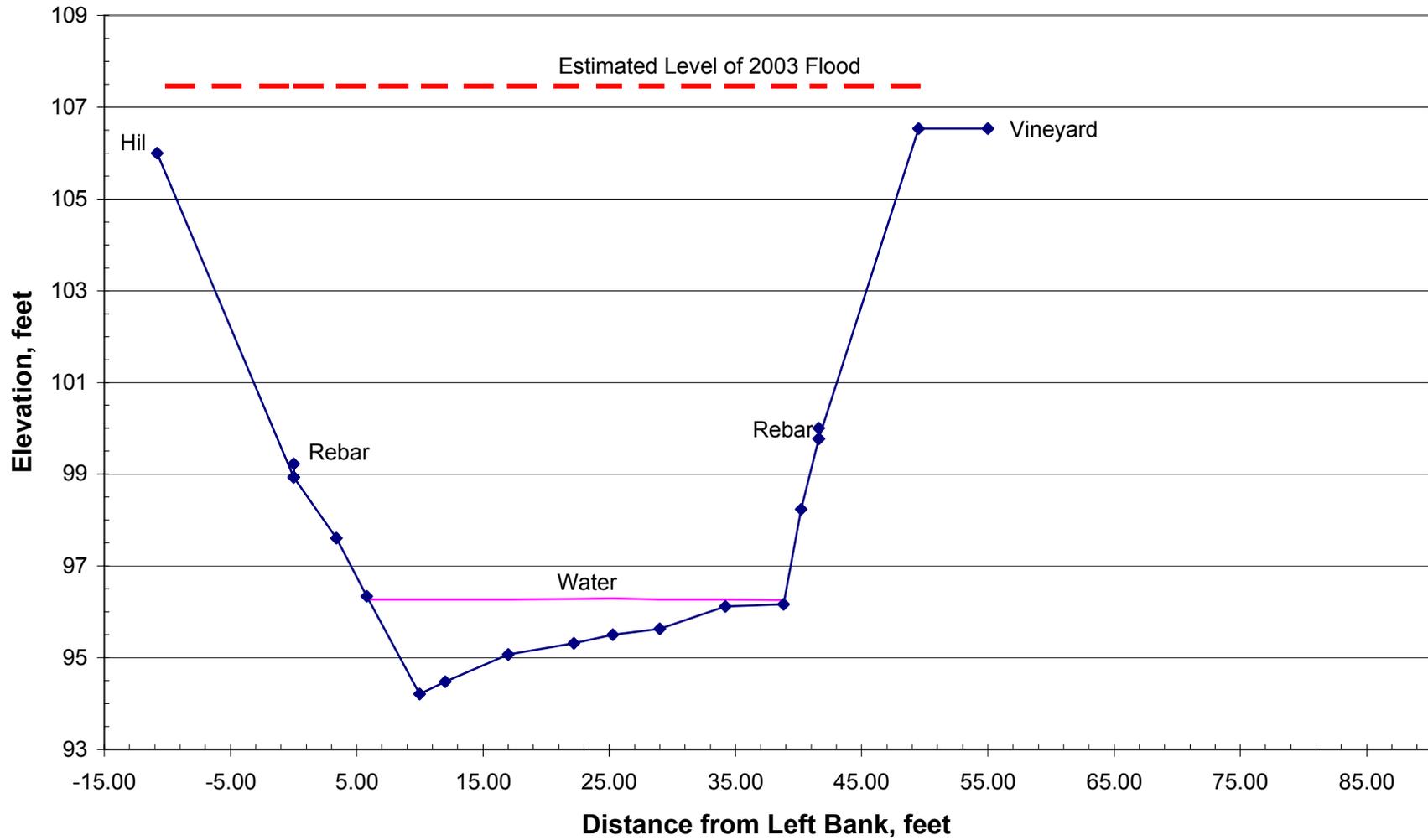
Suisun Creek - Study Reach #1
Cross Section 1: August 2003



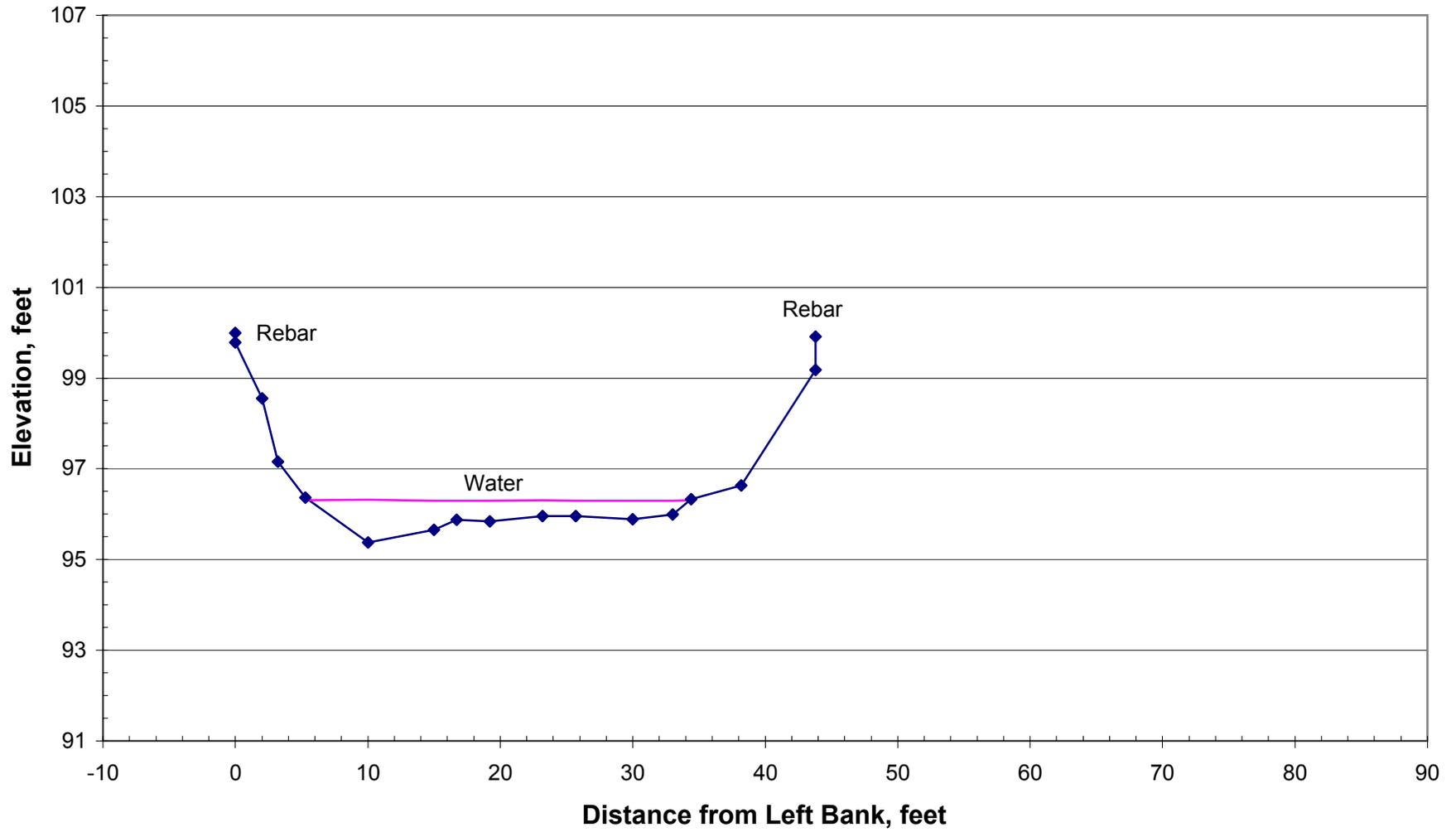
Suisun Creek - Study Reach #1
Cross Section 2: August 2003



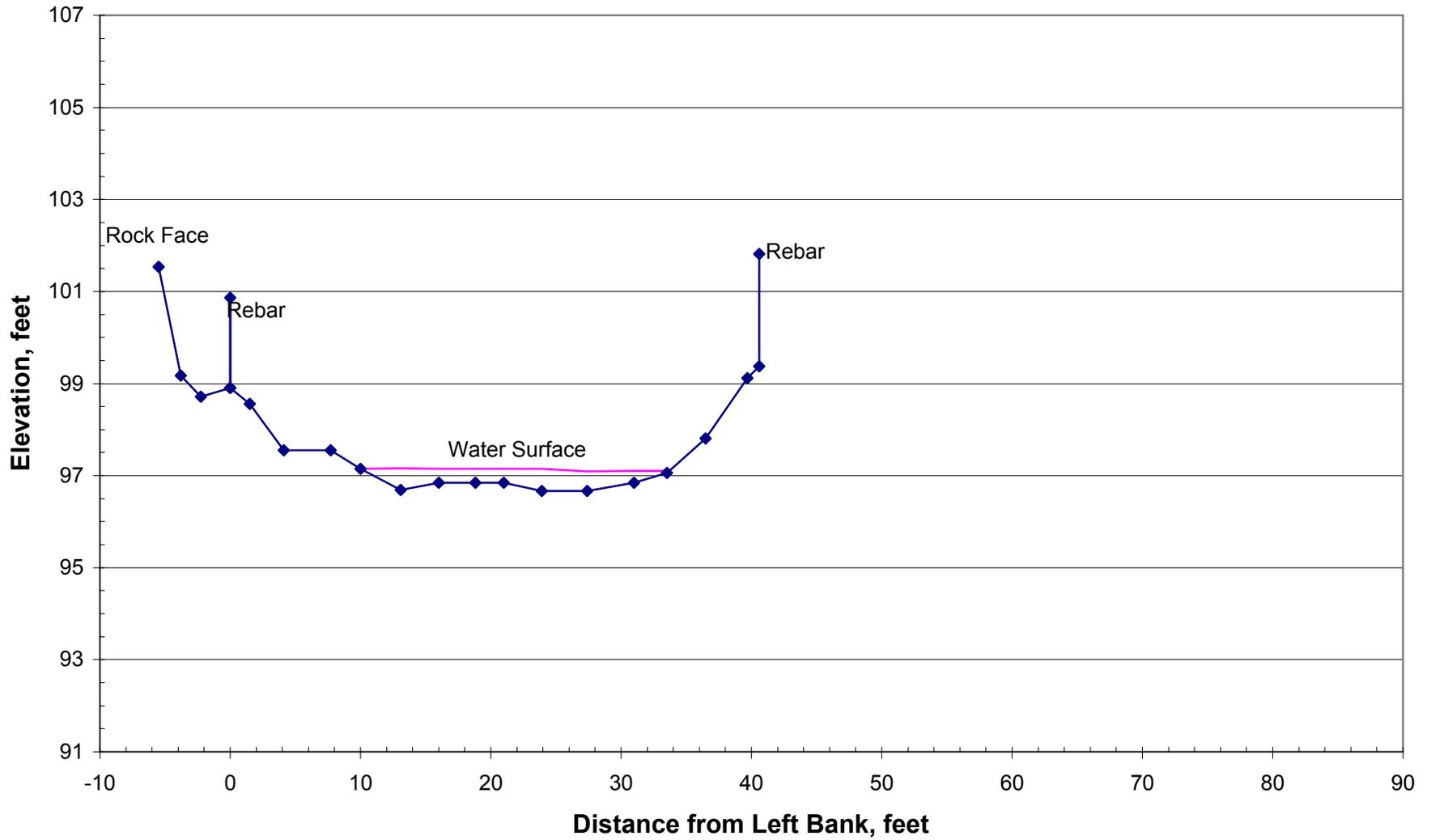
Suisun Creek - Study Reach #1 Cross Section 3: August 2003



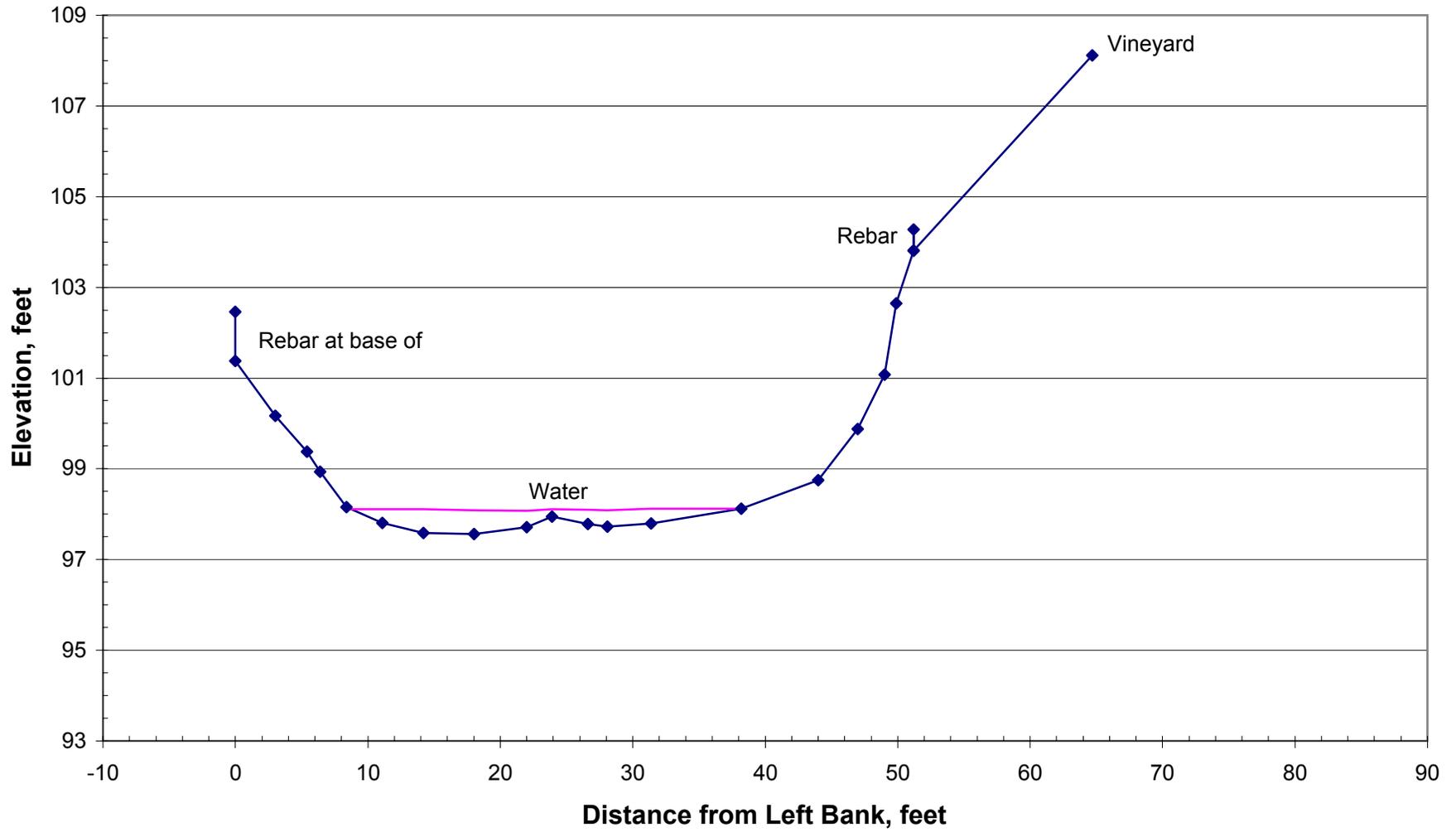
Suisun Creek - Study Reach #1
Cross Section 4: August 2003



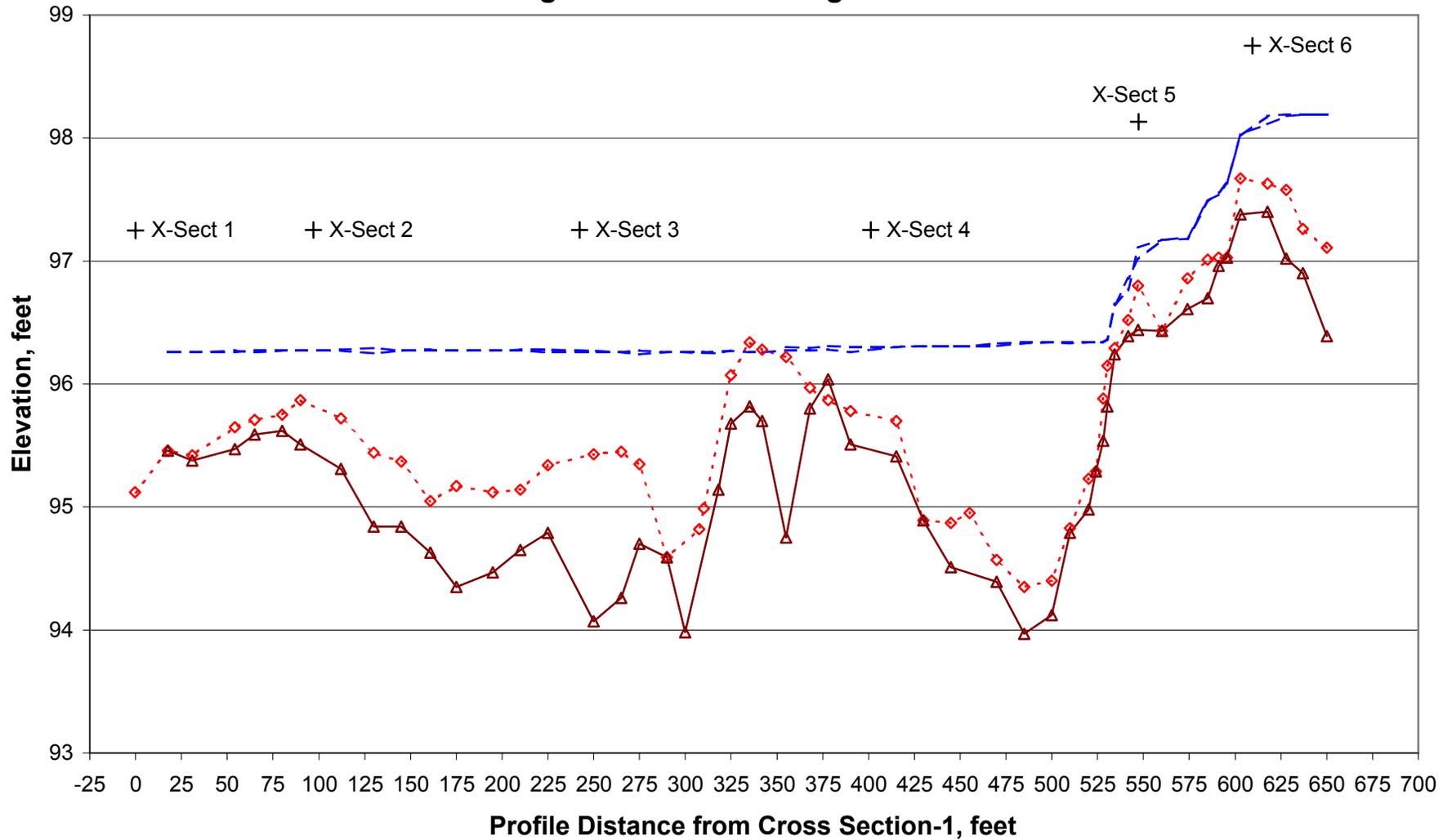
Suisun Creek - Study Reach 31
Cross Section 5: August 2003



Suisun Creek - Study Reach #1 Cross Section 6: August 2003

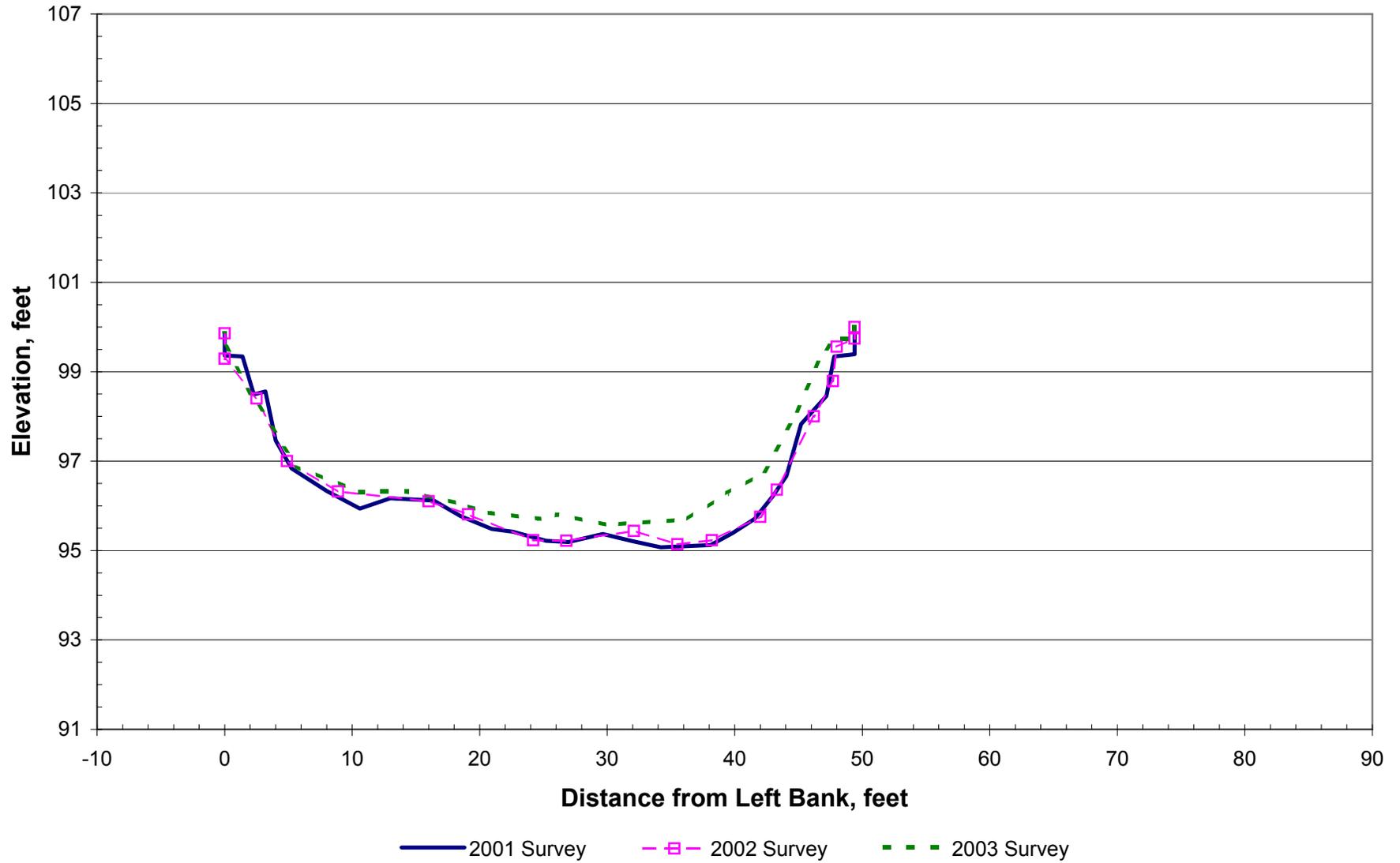


Suisun Creek - Study Reach #1 Longitudinal Profile: August 2003

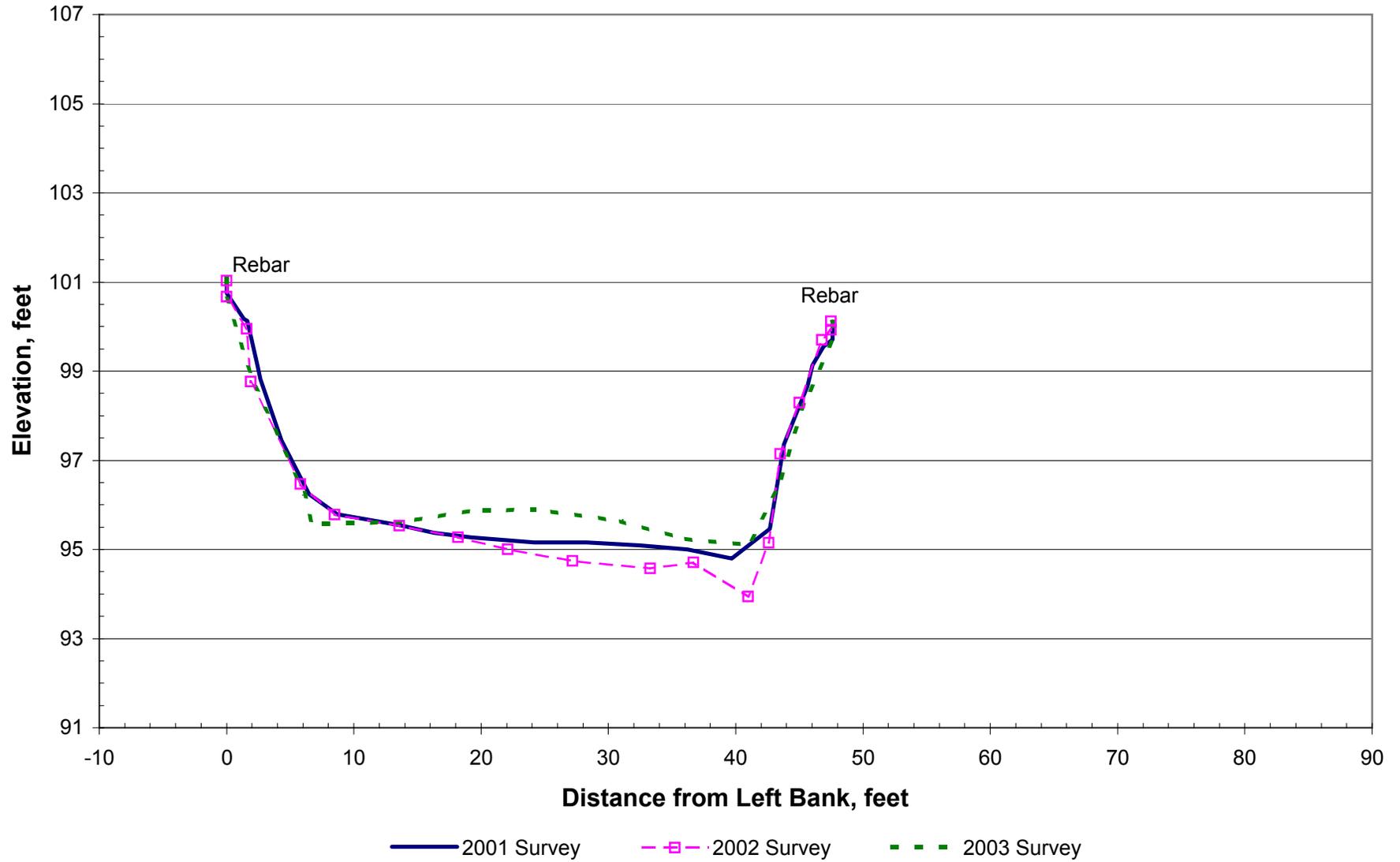


---◇--- Centerline - - - Water Surface -△- Thalweg

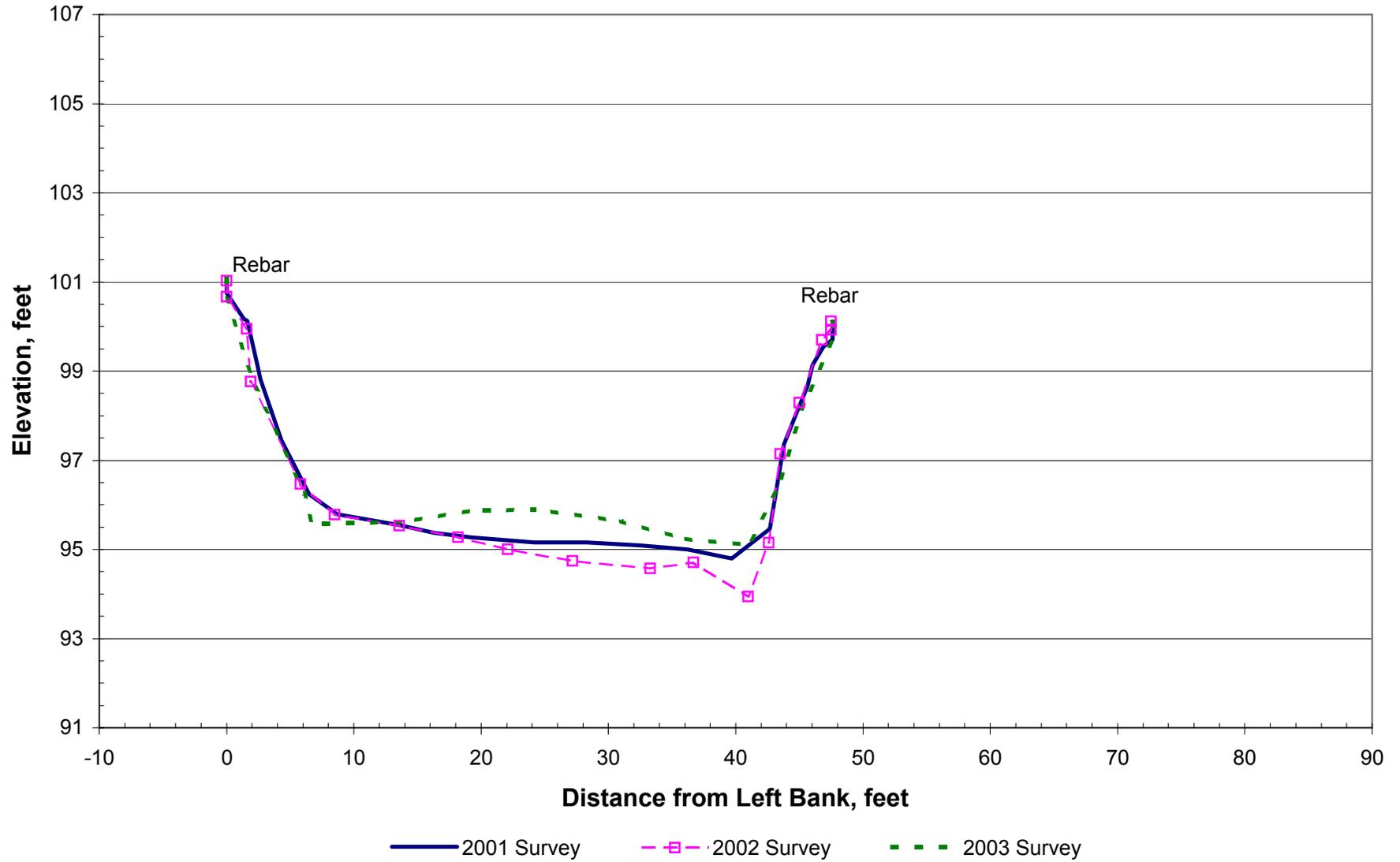
Suisun Creek - Study Reach #1 Cross Section 1: 2001 - 2003



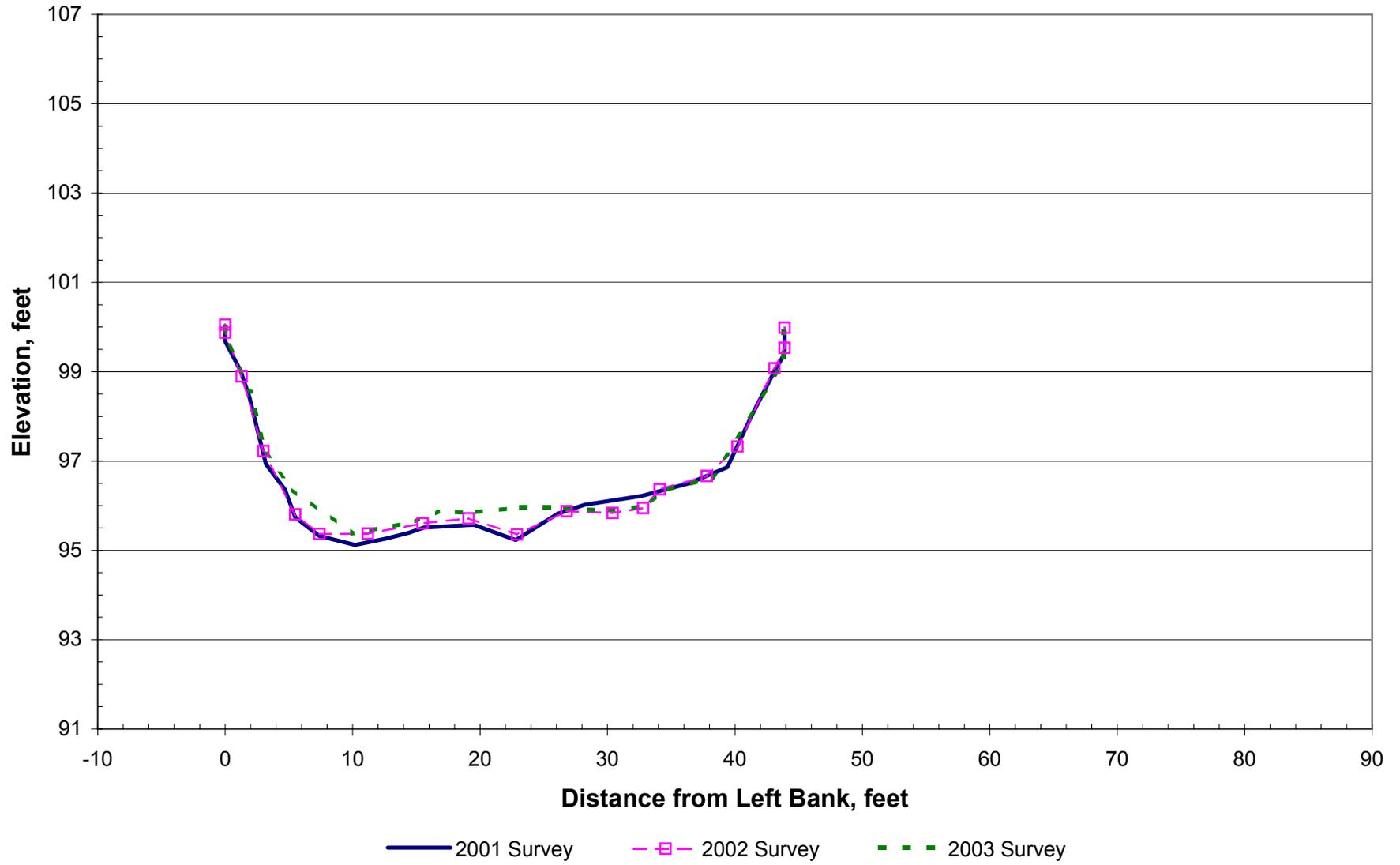
Suisun Creek - Study Reach #1 Cross Section 2: 2001 - 2003



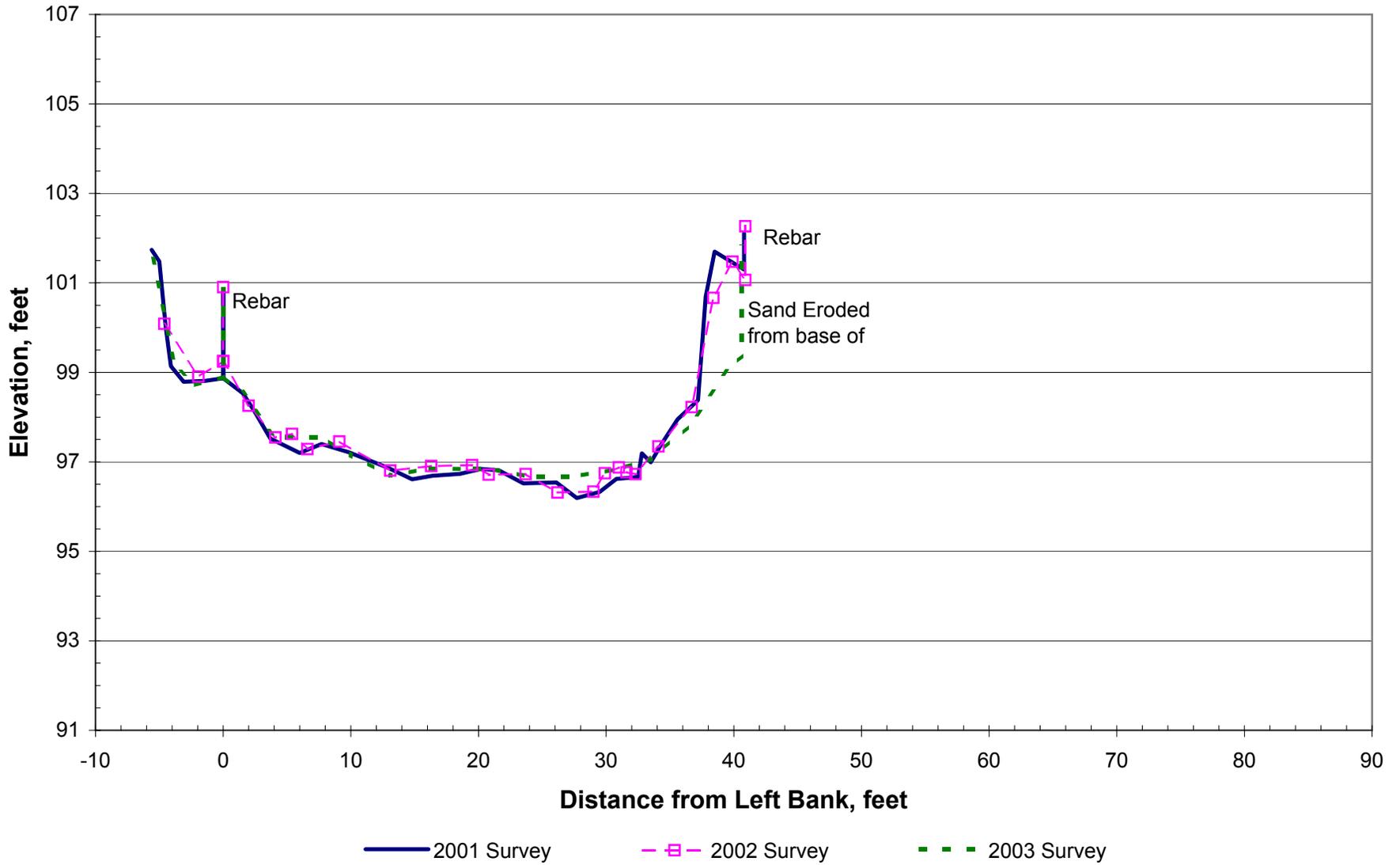
Suisun Creek - Study Reach #1 Cross Section 2: 2001 - 2003



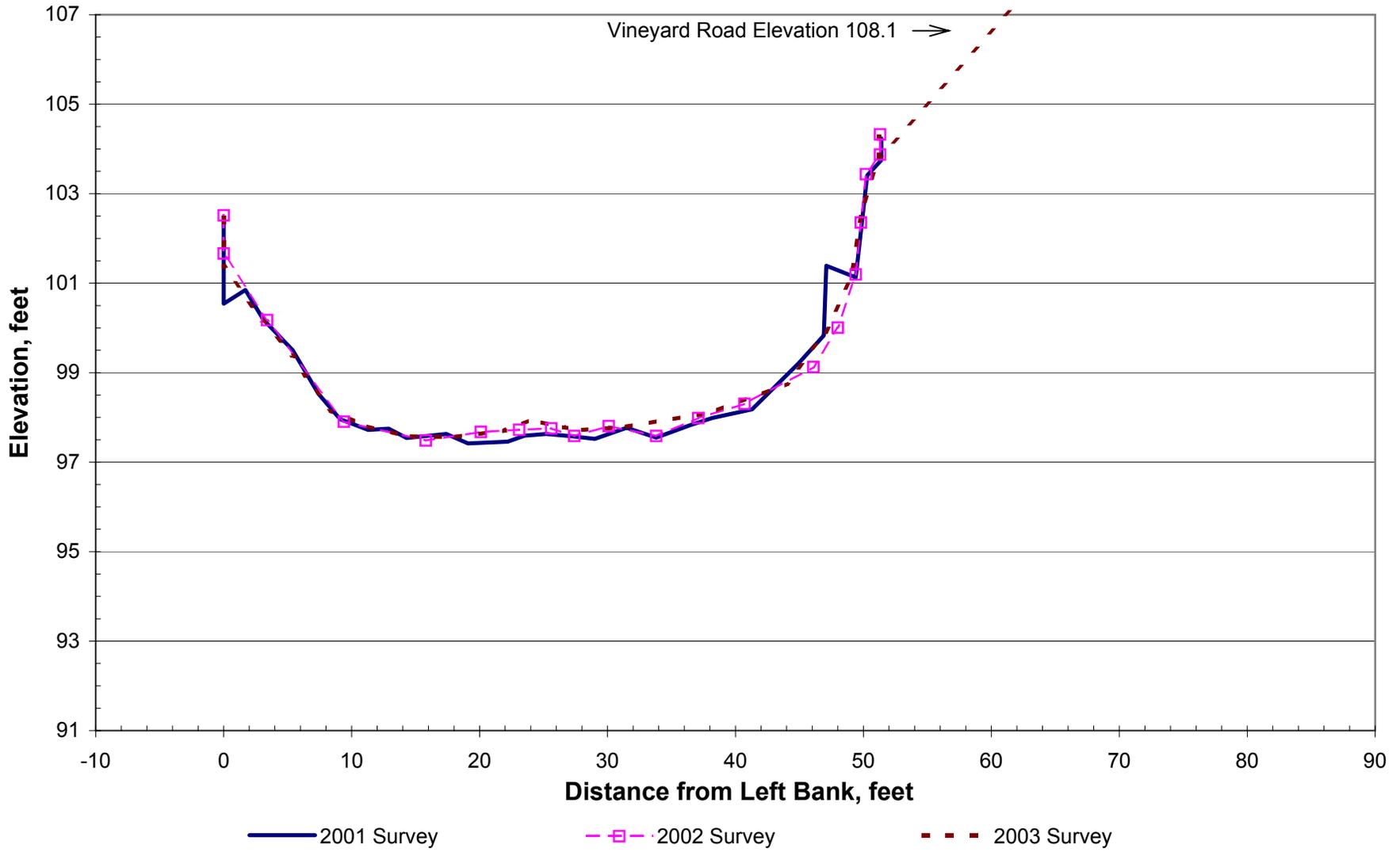
Suisun Creek - Study Reach #1 Cross Section 4: 2001 - 2003



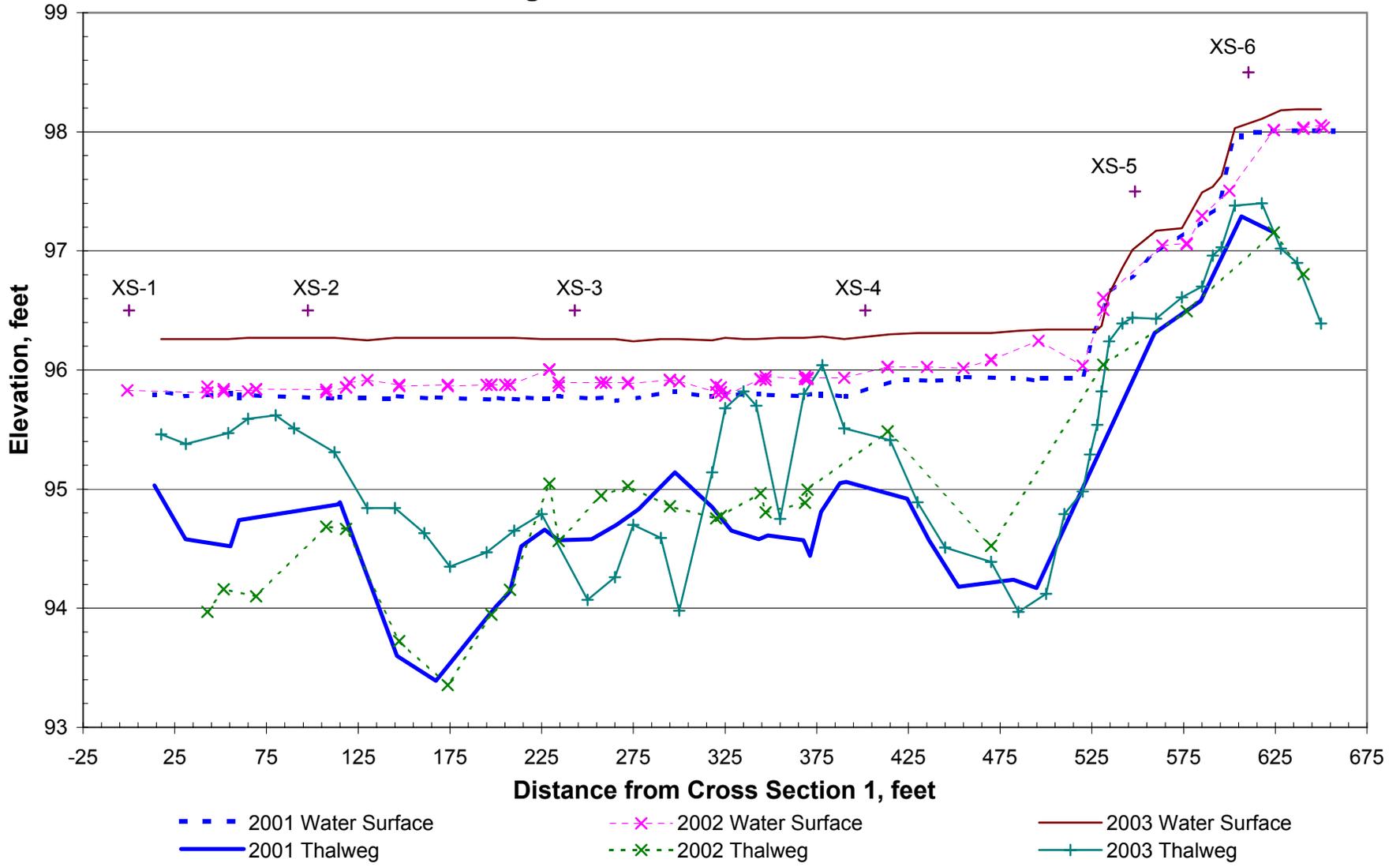
Suisun Creek - Study Reach #1 Cross Section 5: 2001 - 2003



Suisun Creek - Study Reach #1 Cross Section 6: 2001 - 2003

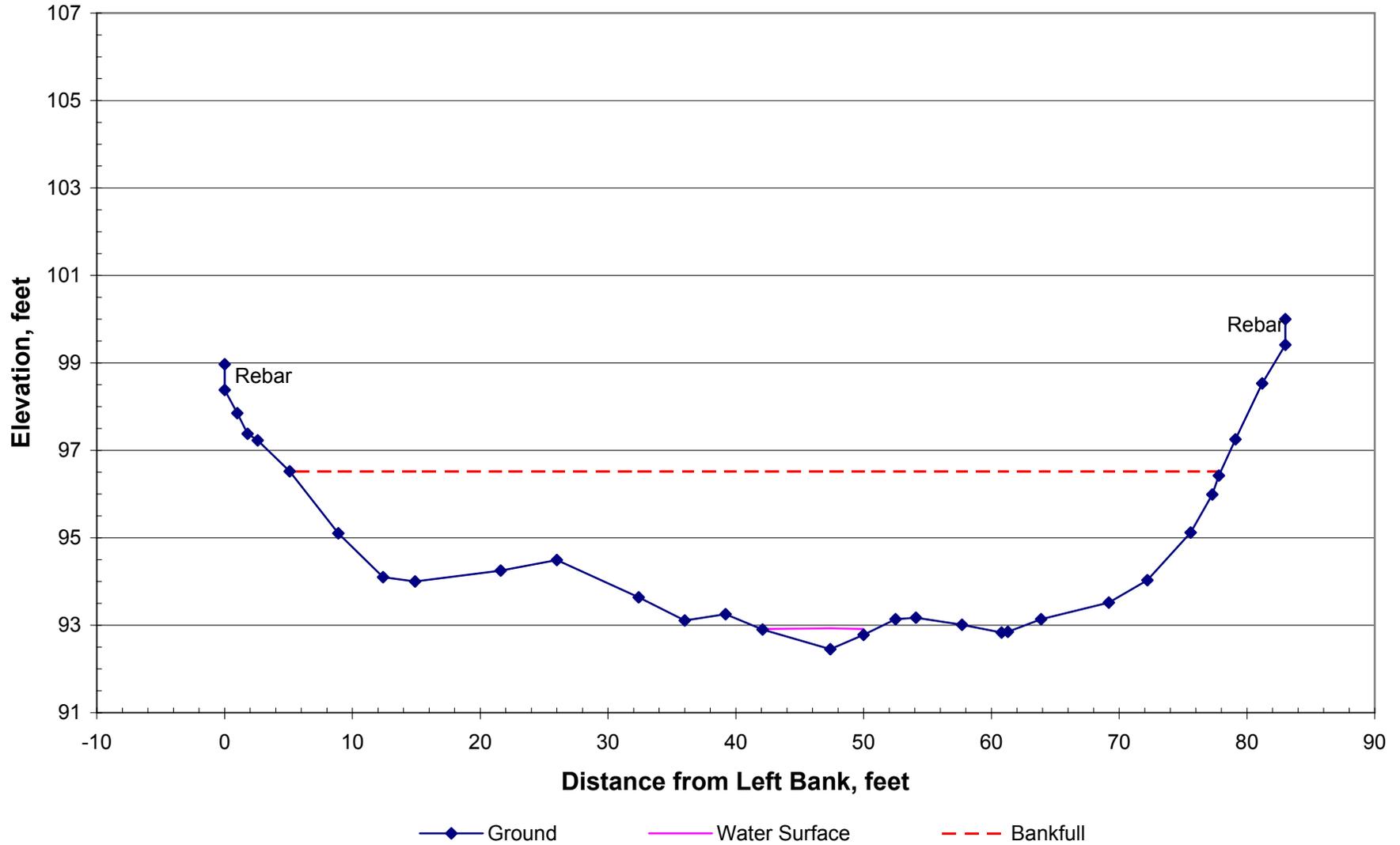


Suisun Creek - Study Reach #1 Longitudinal Profile: 2001 - 2003



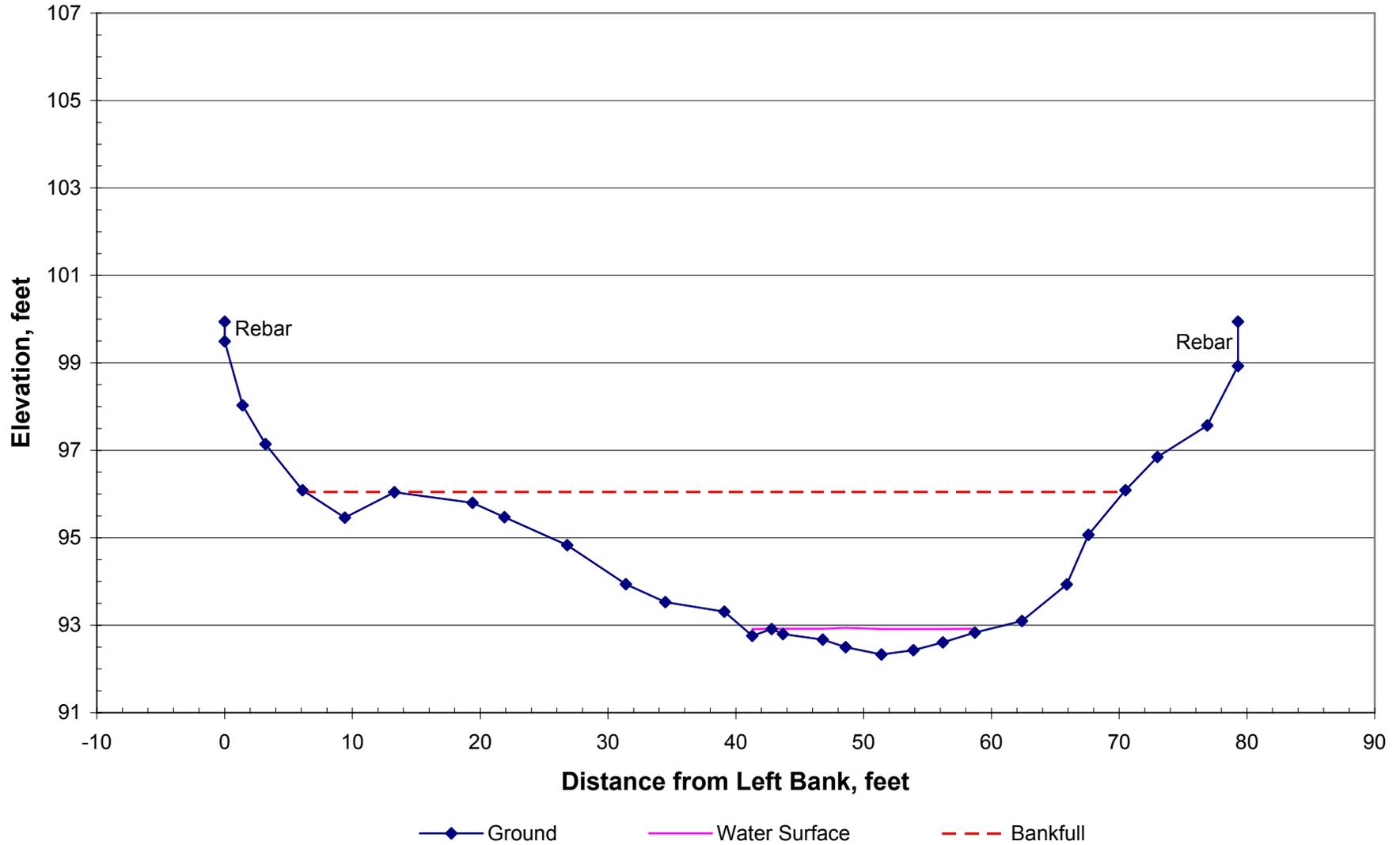
Wooden Valley Creek - Study Reach #1

Cross Section 1: November 2001

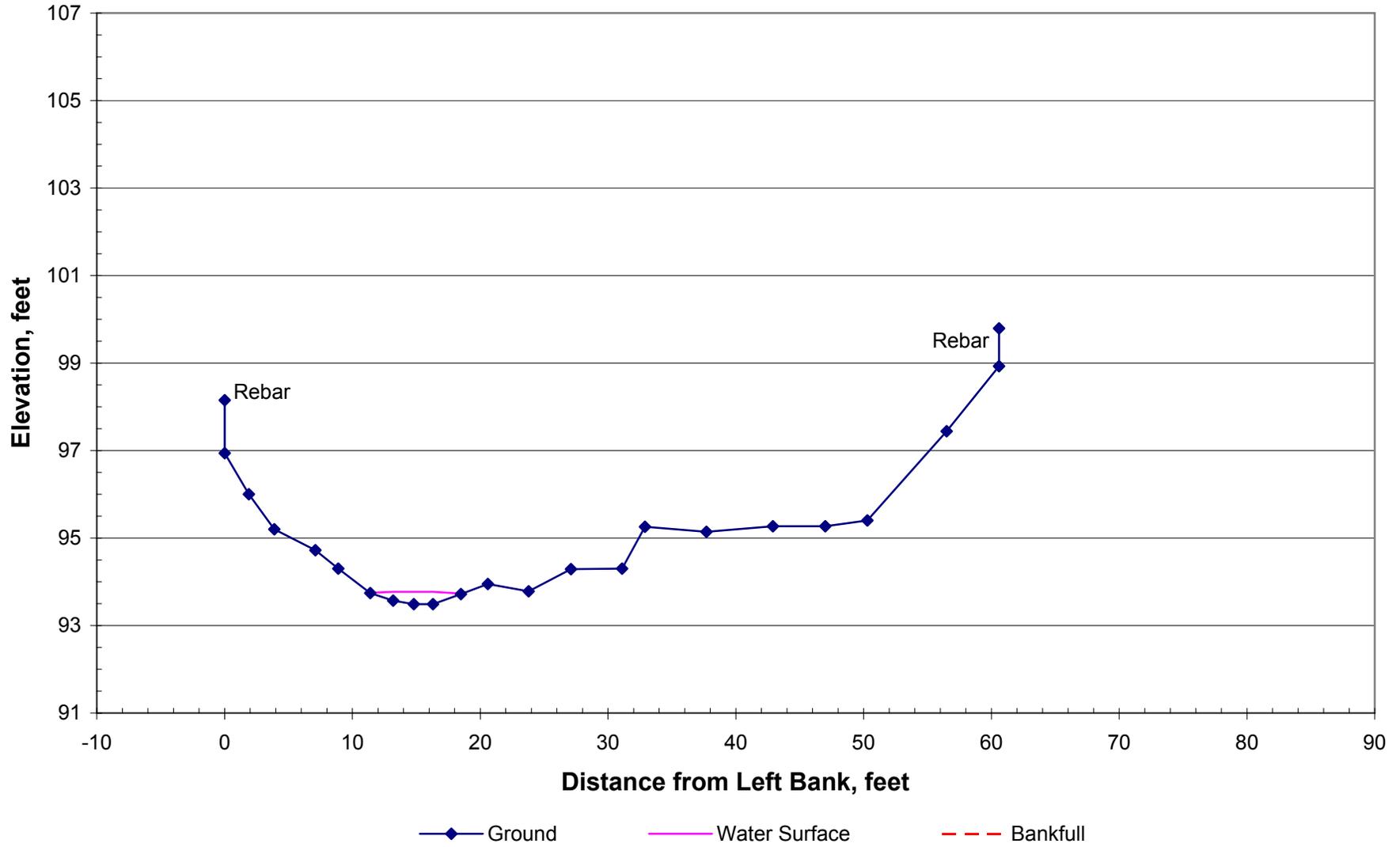


Wooden Valley Creek - Study Reach #1

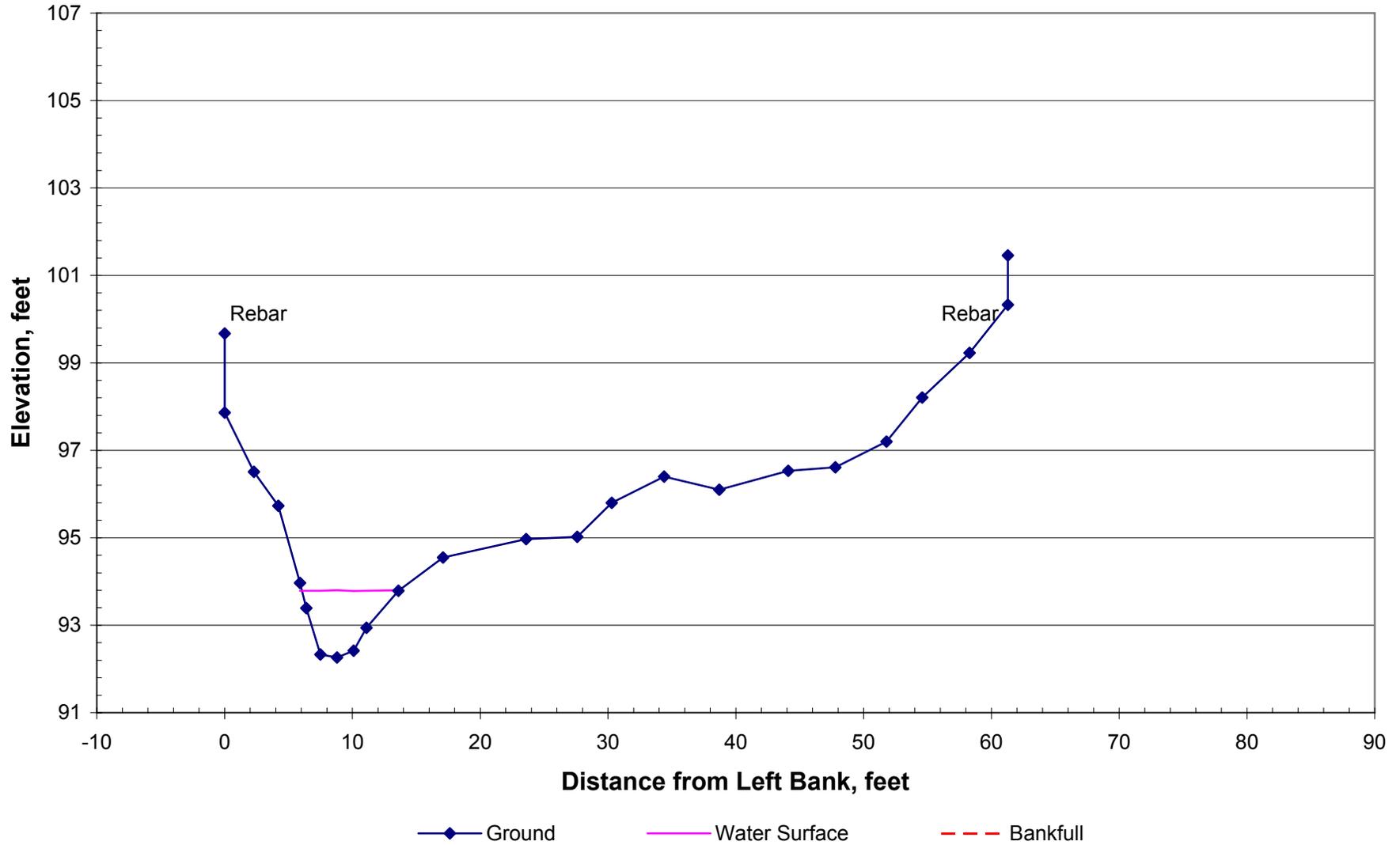
Cross Section 2: November 2001



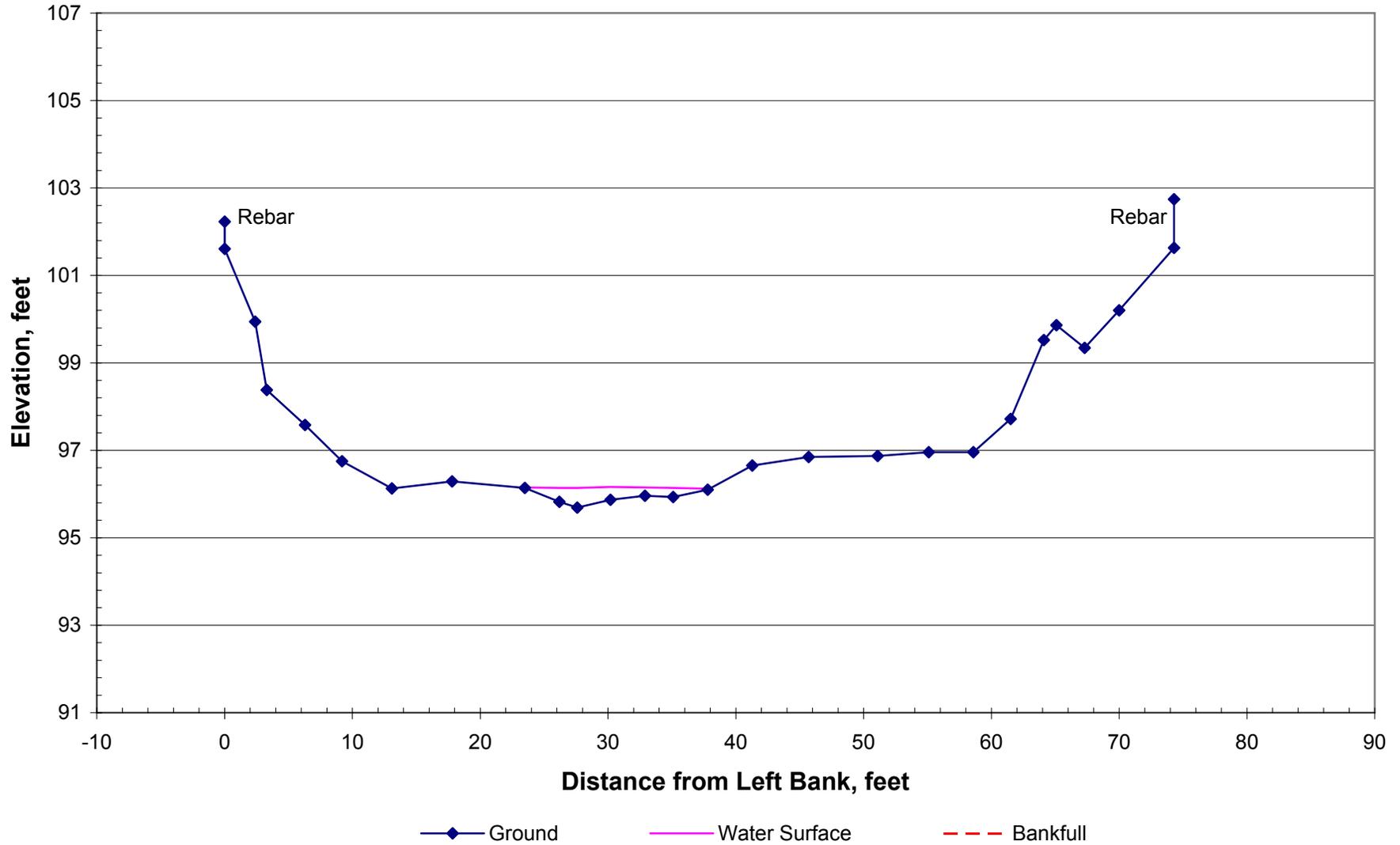
Wooden Valley Creek - Study Reach #1 Cross Section 3: November 2001



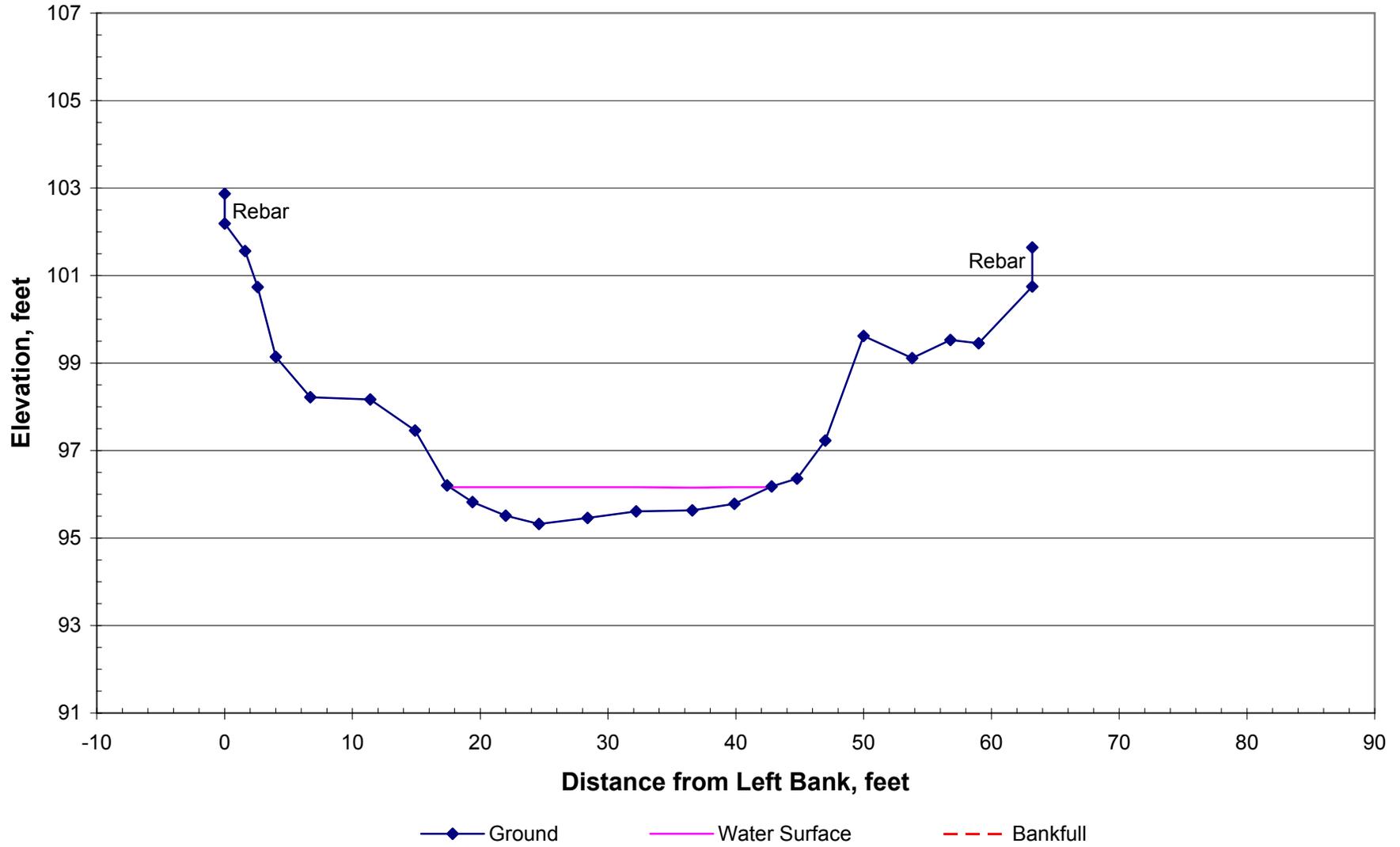
Wooden Valley Creek - Study Reach #1 Cross Section 4: November 2001



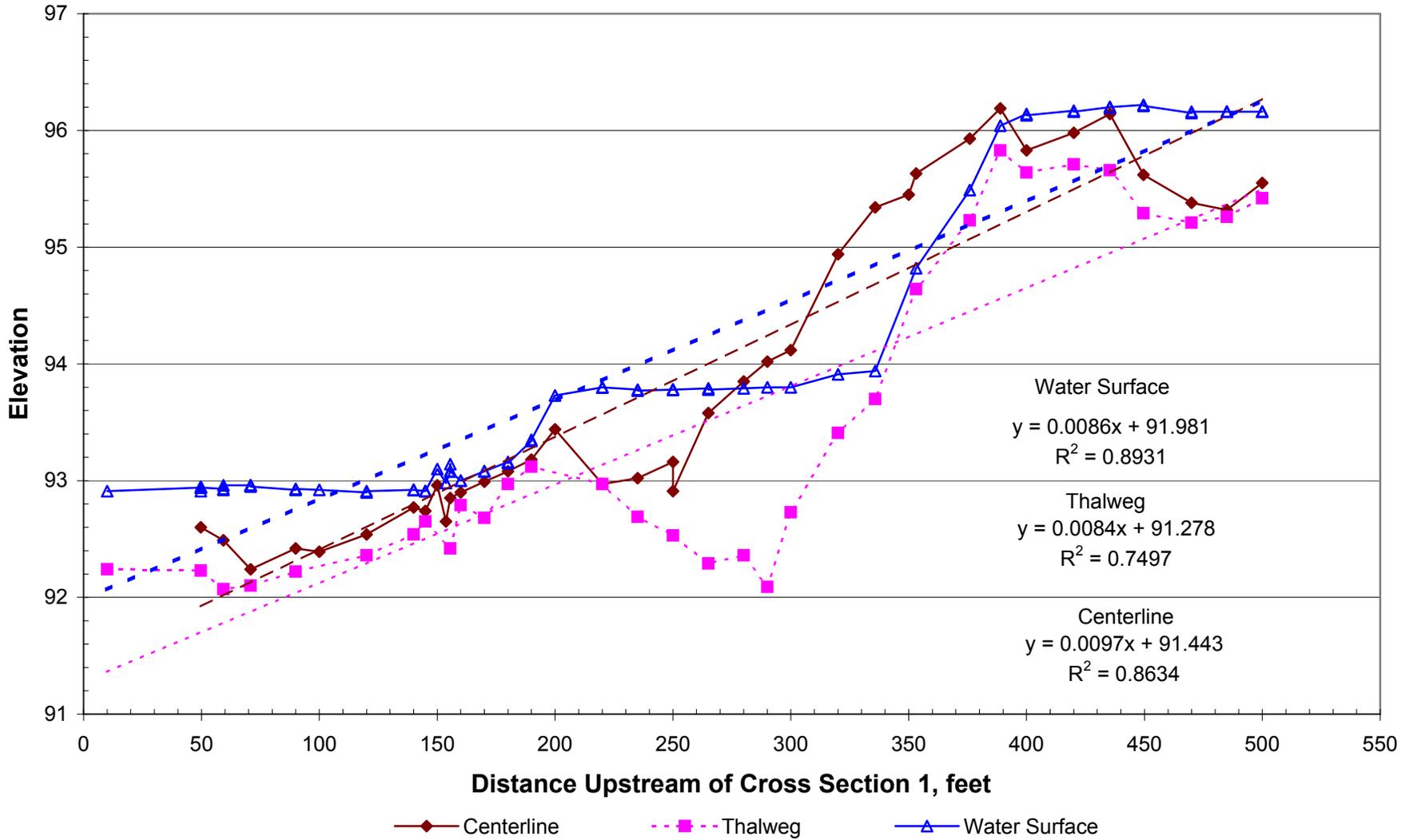
Wooden Valley Creek - Study Reach #1 Cross Section 5: November 2001



Wooden Valley Creek - Study Reach #1 Cross Section 6: November 2001

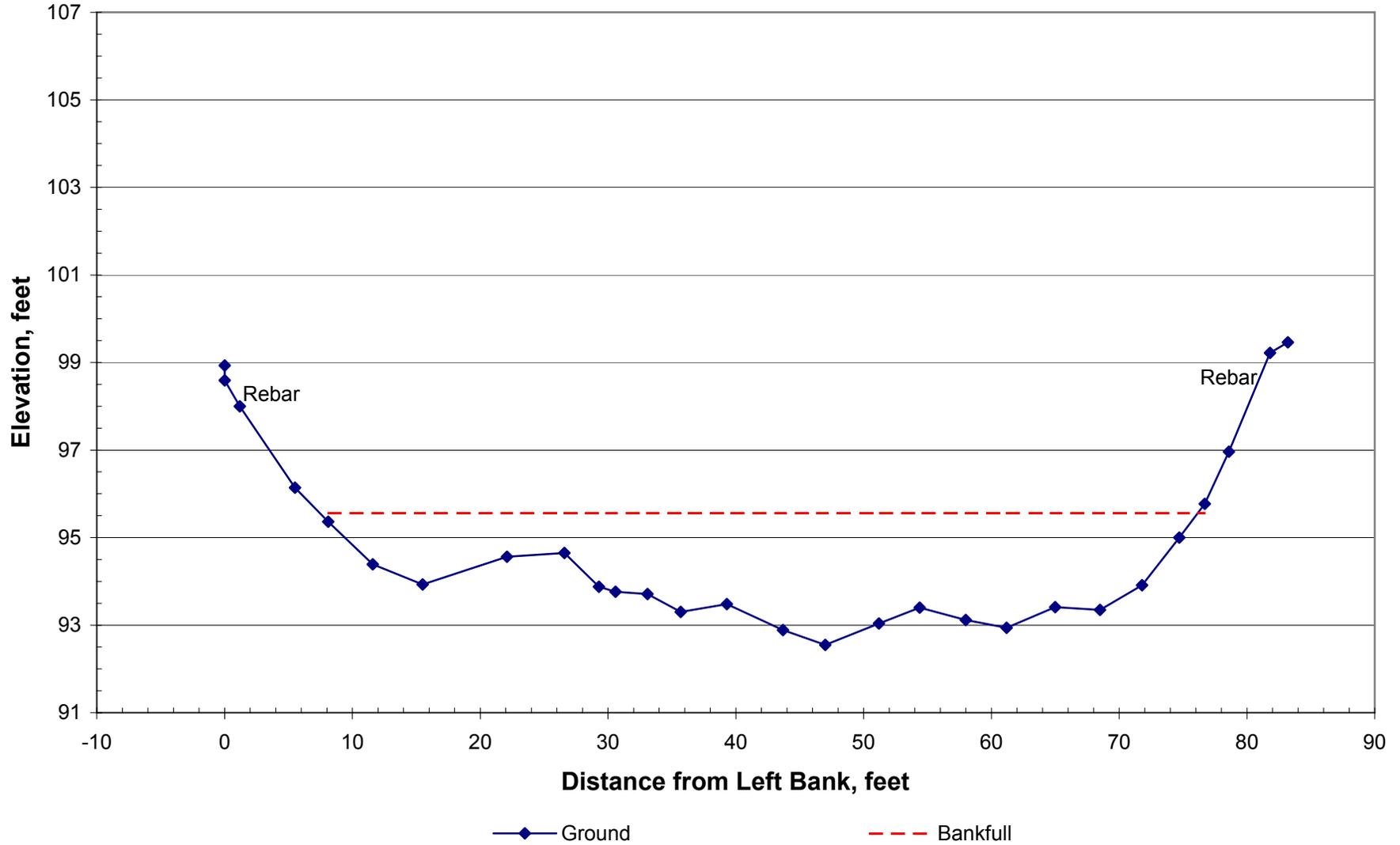


Wooden Valley Creek - Study Reach #1 Longitudinal Profile: November 2001

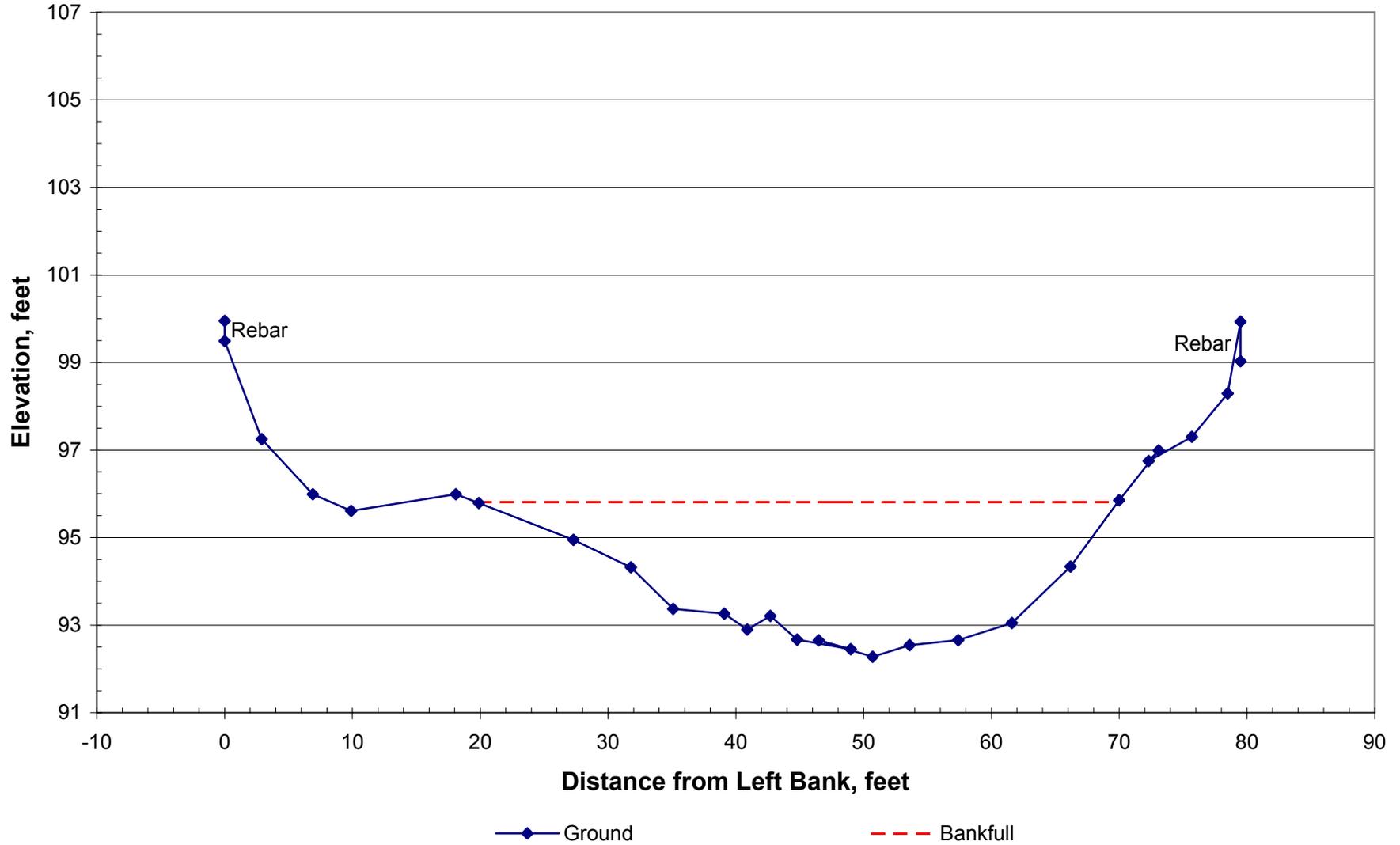


Wooden Valley Creek - Study Reach #1

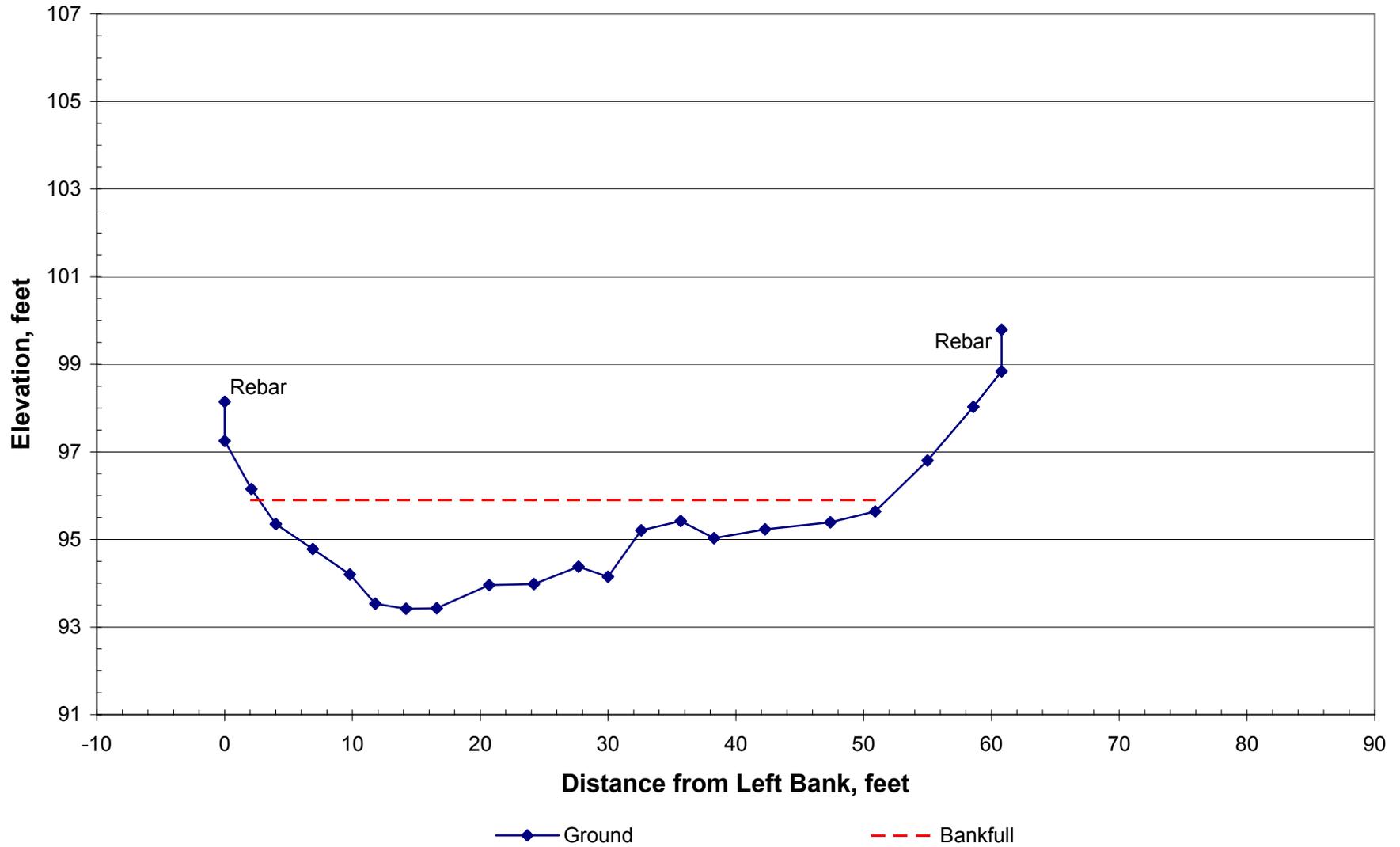
Cross Section 1: November 2002



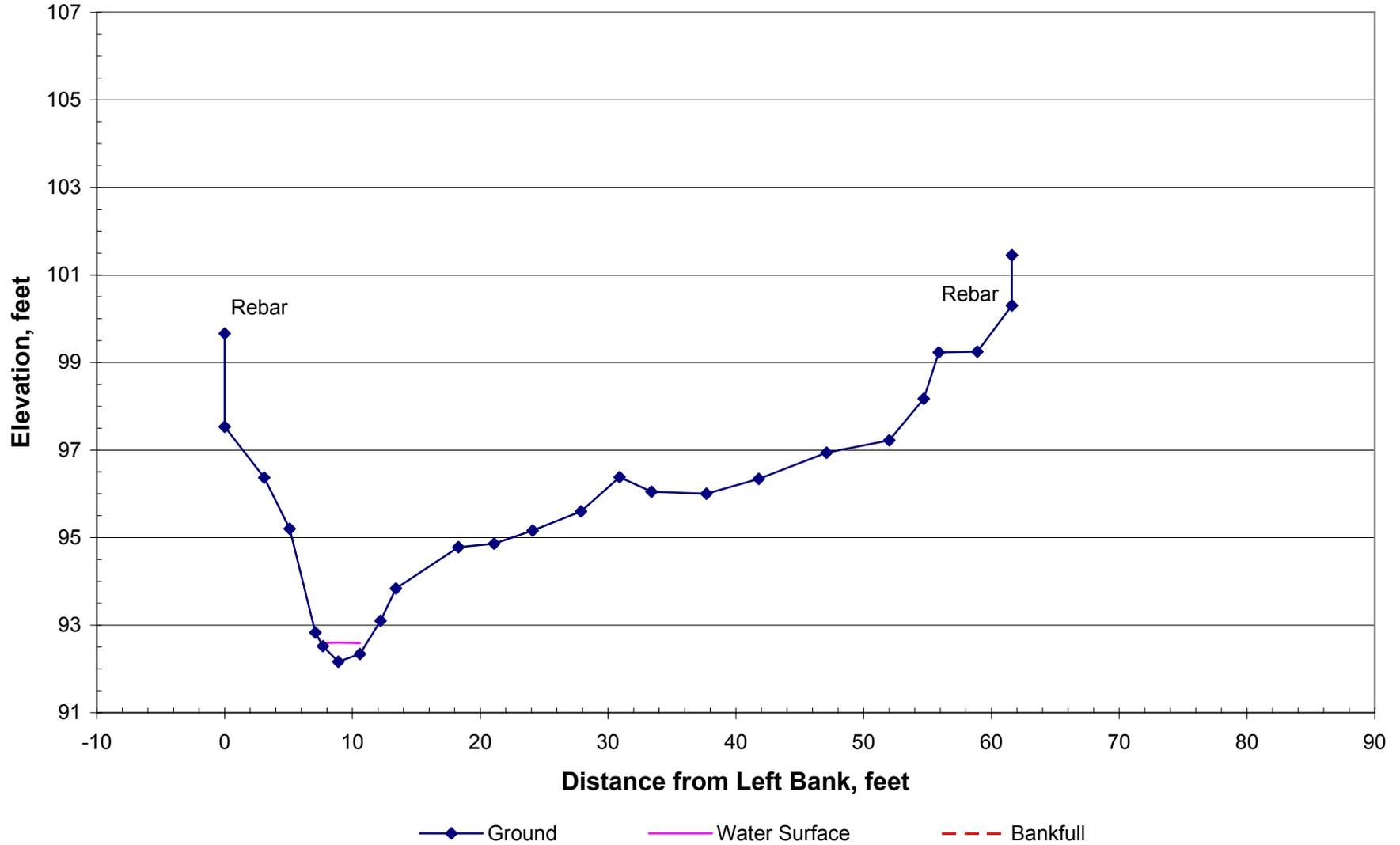
Wooden Valley Creek - Study Reach #1
Cross Section 2: November 2002



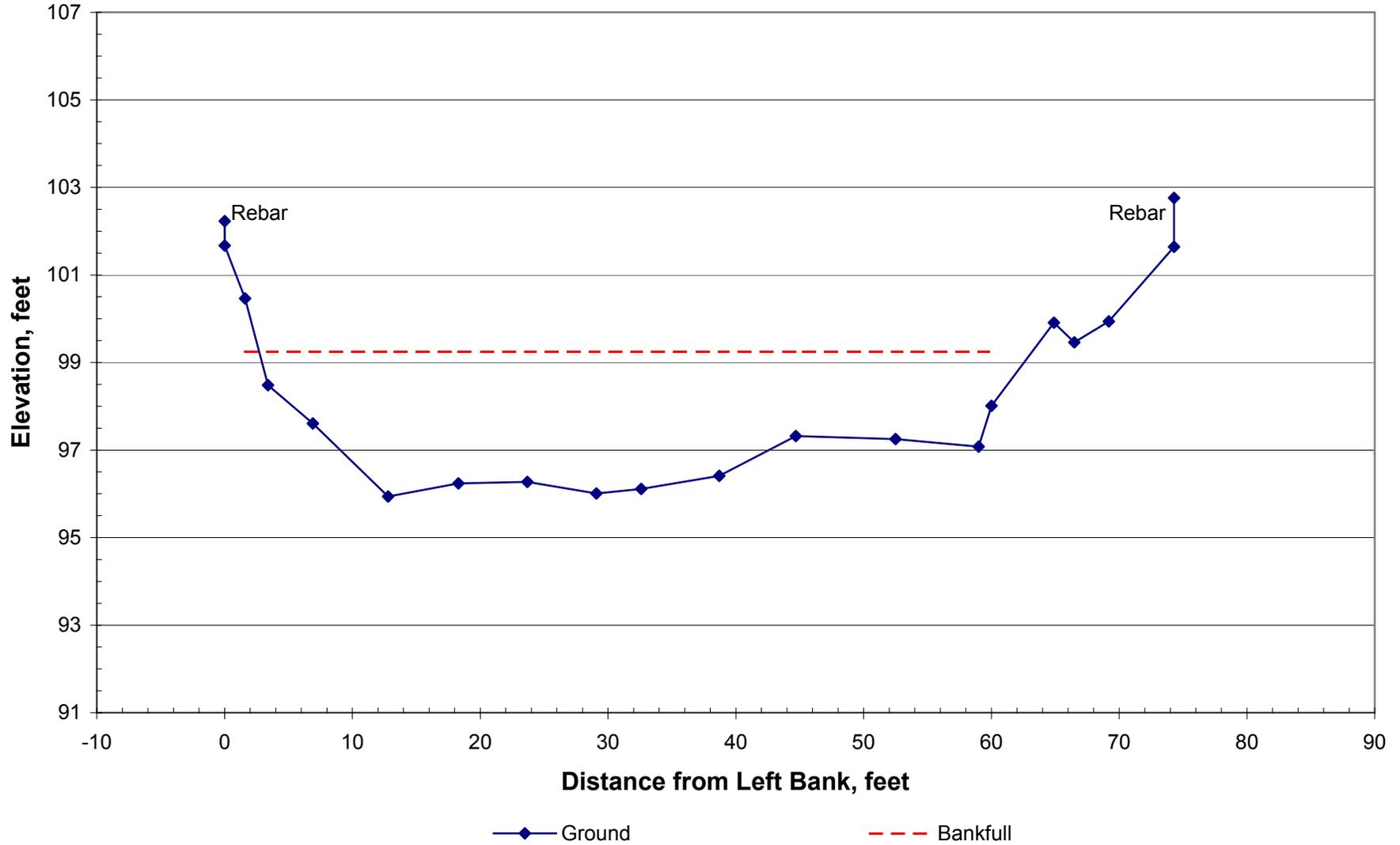
Wooden Valley Creek - Study Reach #1
Cross Section 3: November 2002



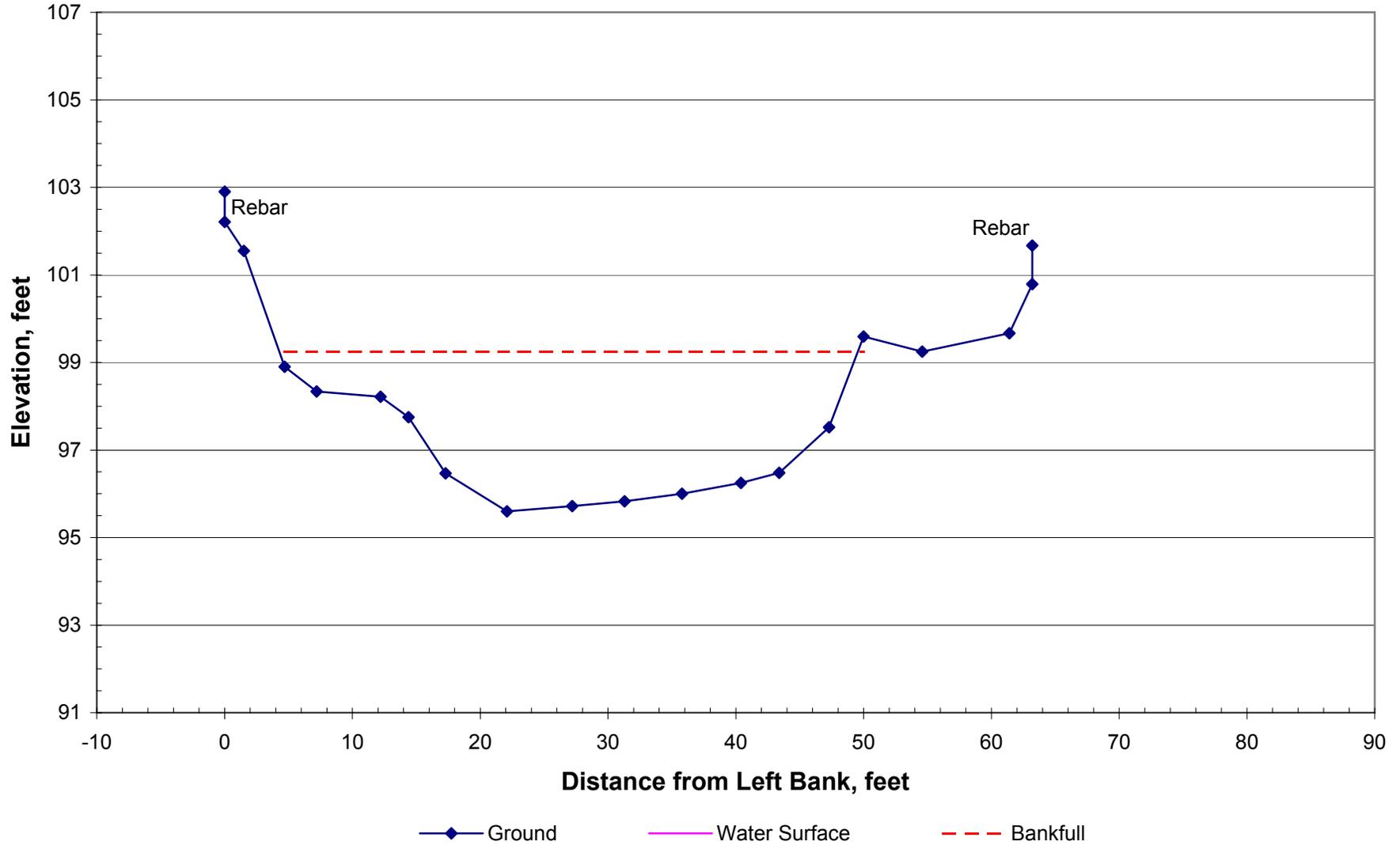
Wooden Valley Creek - Study Reach #1
Cross Section 4: November 2002



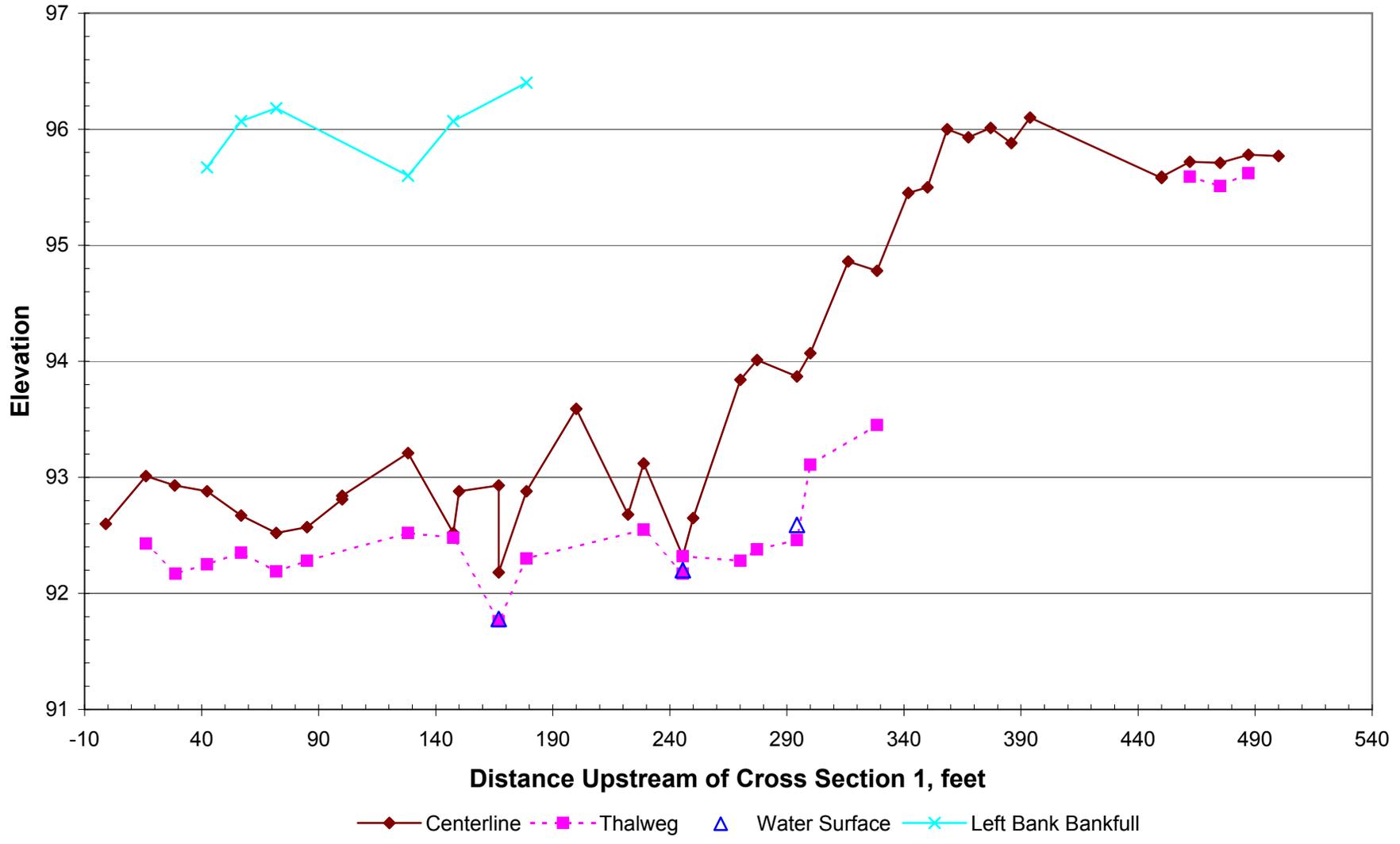
Wooden Valley Creek - Study Reach #1 Cross Section 5: November 2002



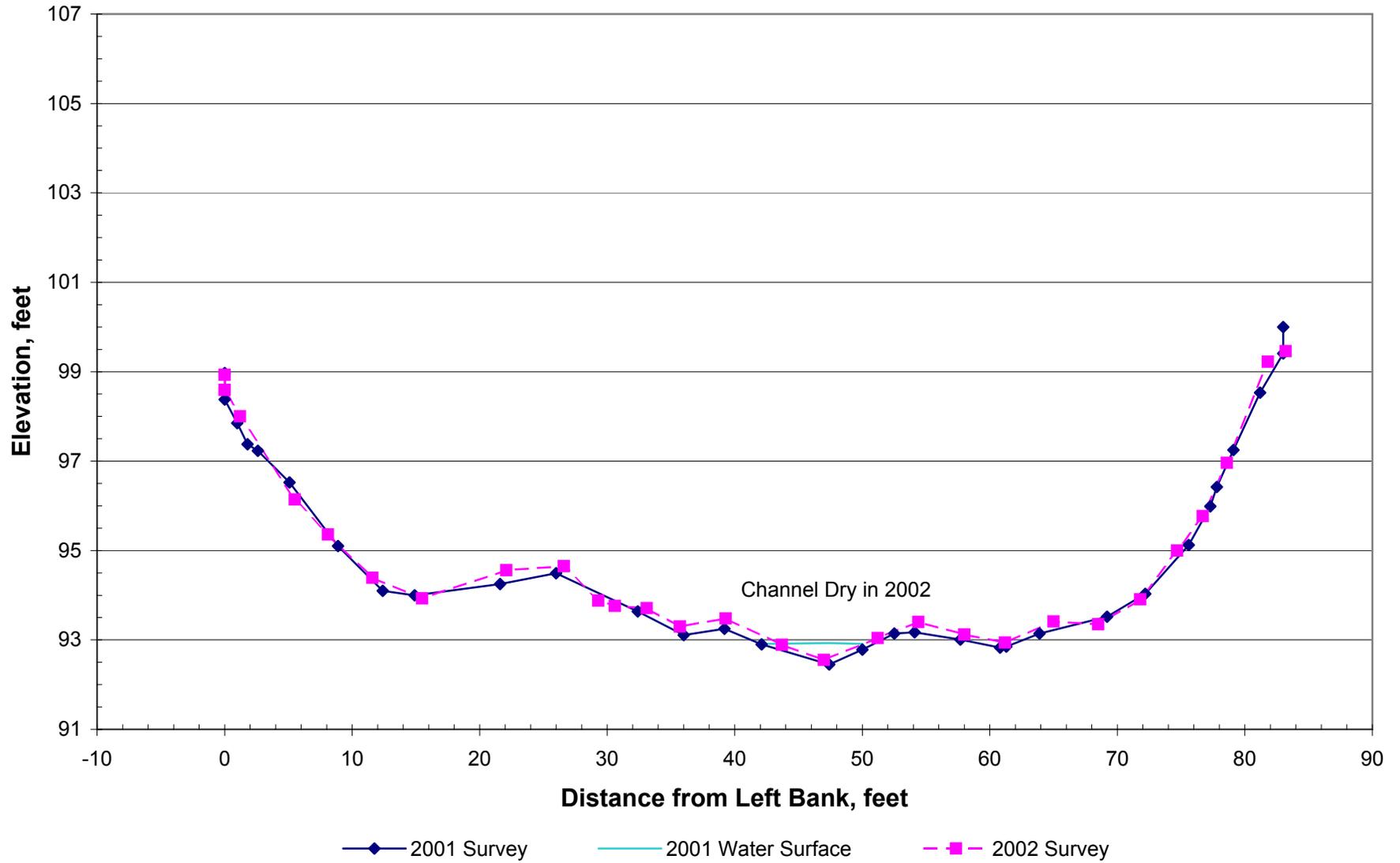
Wooden Valley Creek - Study Reach #1
Cross Section 6: November 2002



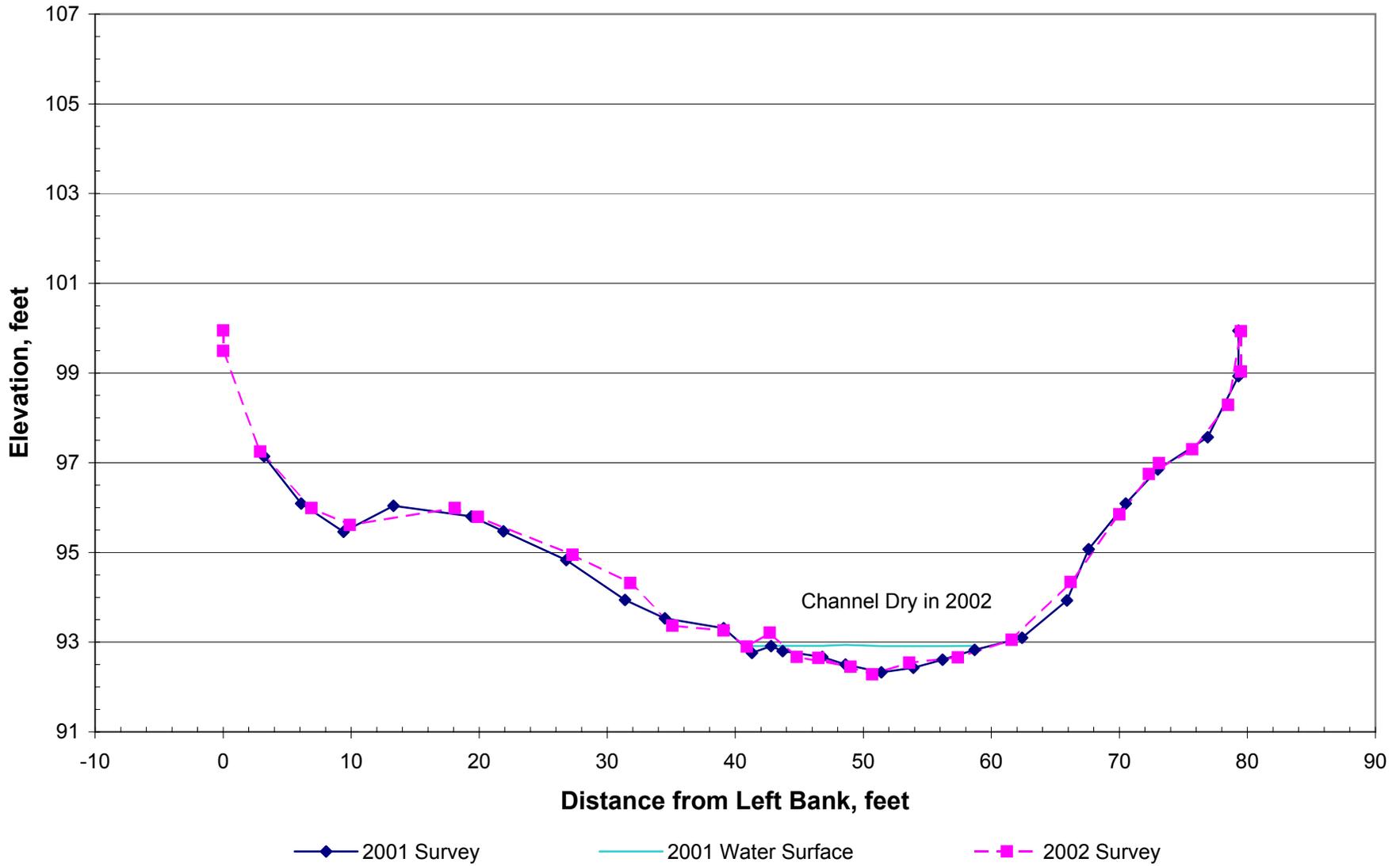
Wooden Valley Creek - Study Reach #1 Longitudinal Profile: August 2002



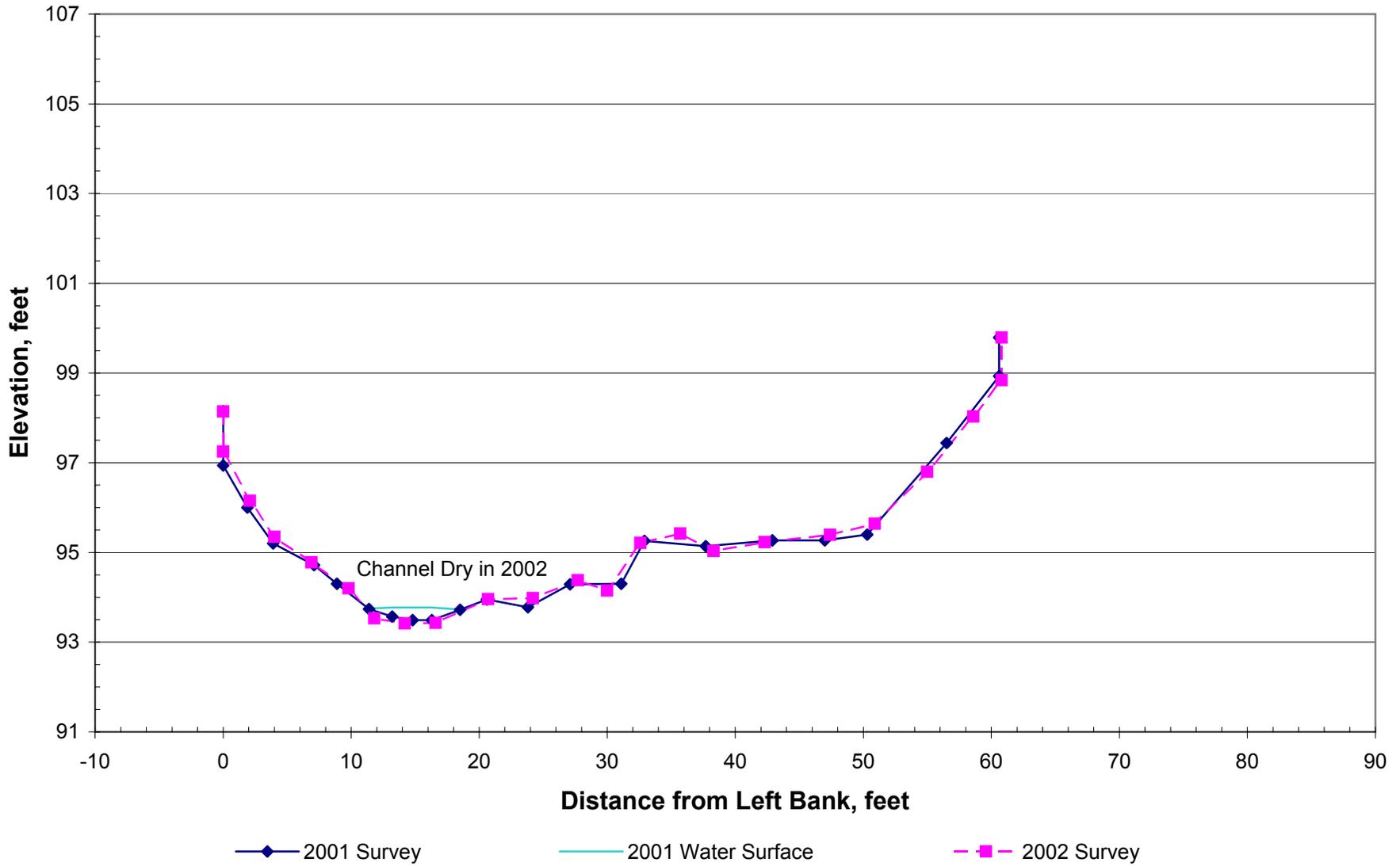
Wooden Valley Creek - Study Reach #1 Cross Section 1: 2001 - 2002



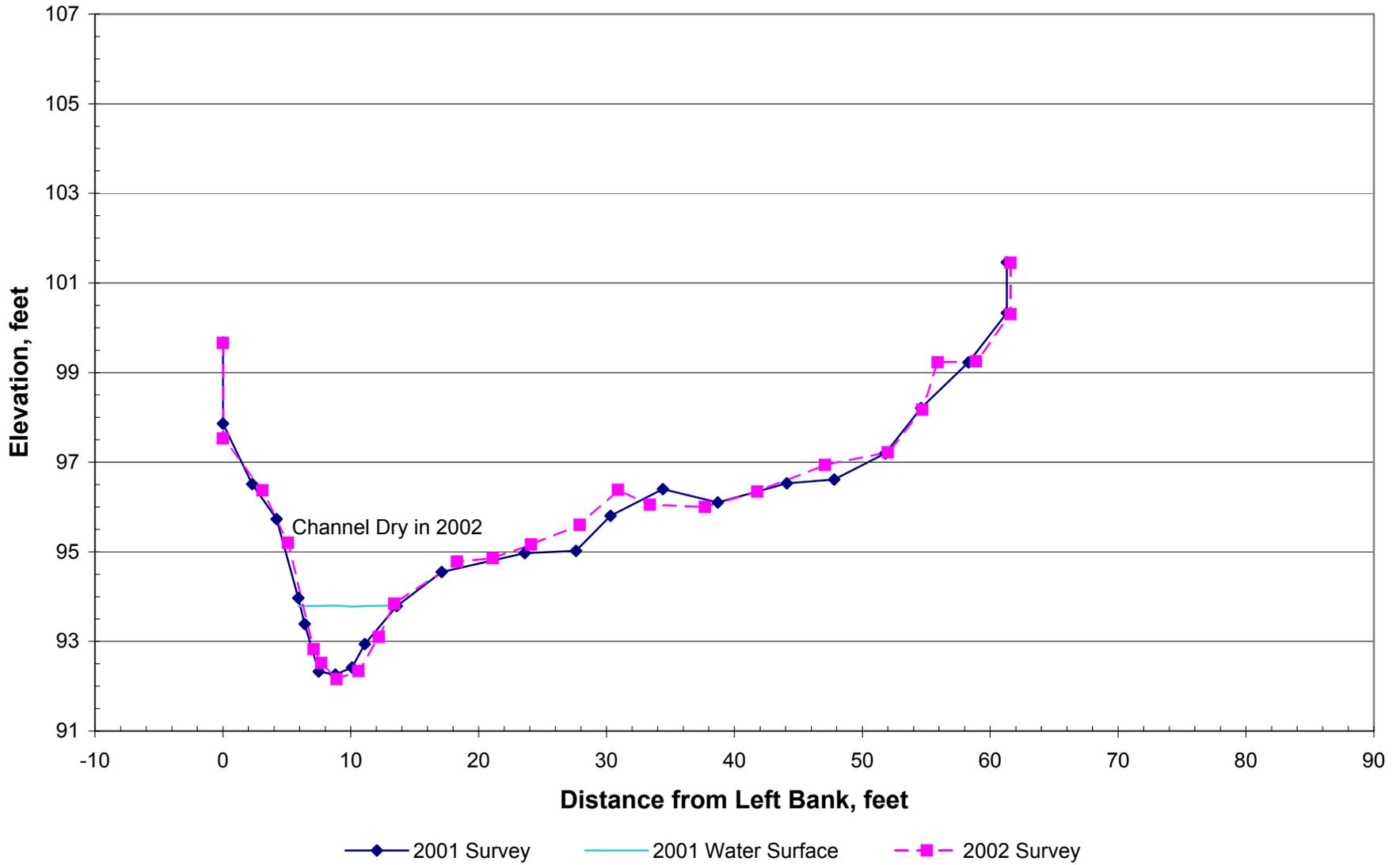
Wooden Valley Creek - Study Reach #1 Cross Section 2: 2001 - 2002



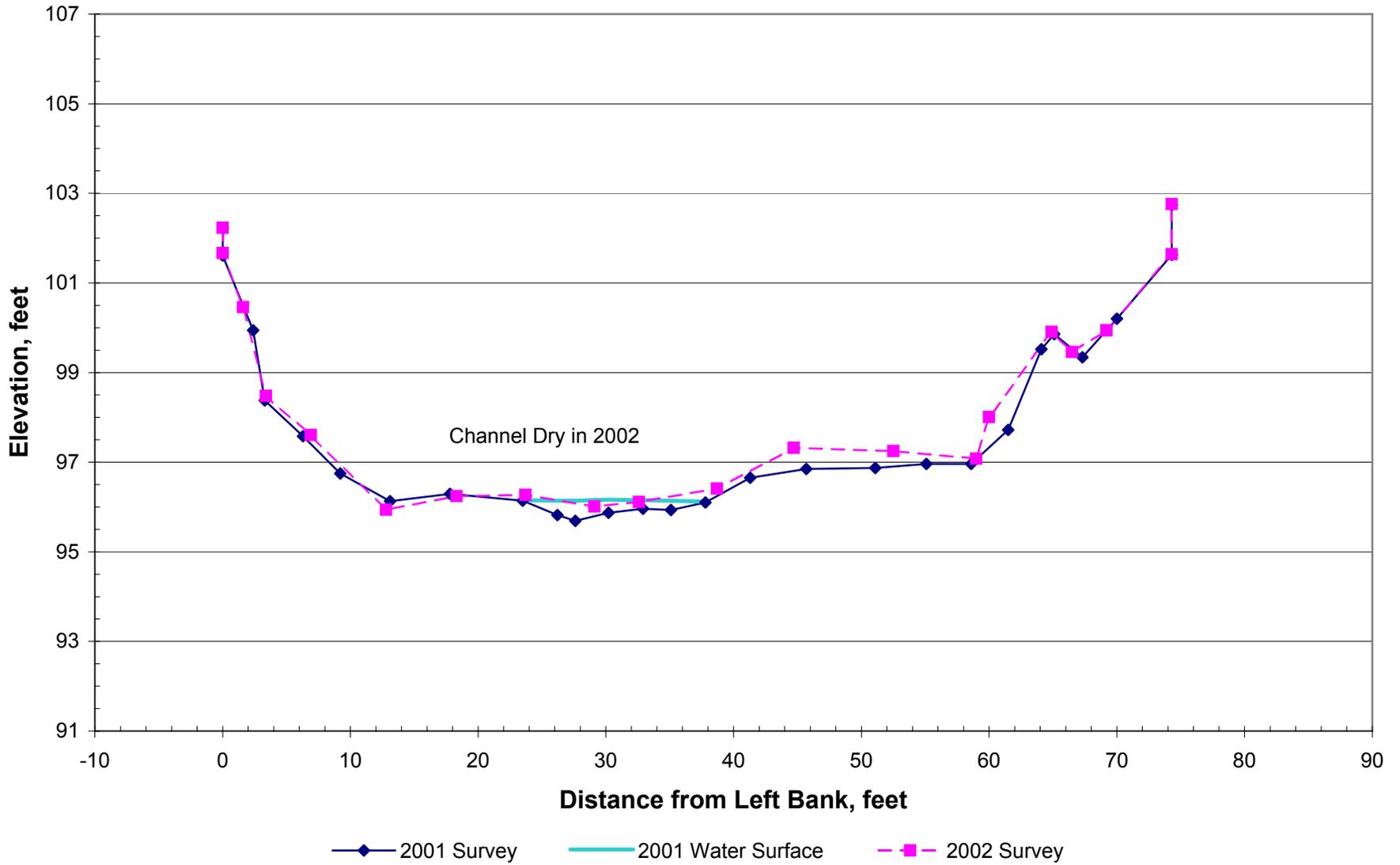
Wooden Valley Creek - Study Reach #1 Cross Section 3: 2001 - 2002



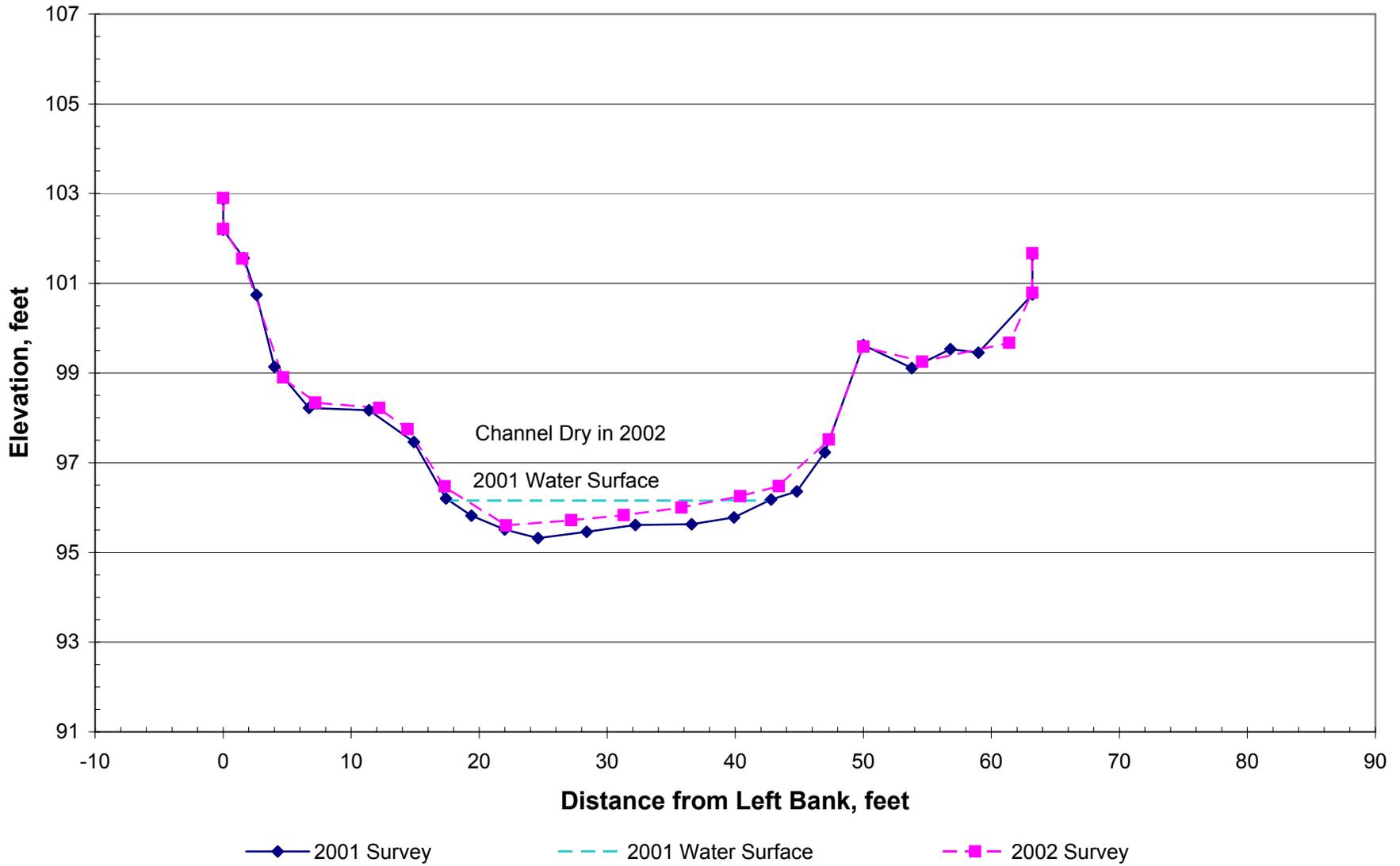
Wooden Valley Creek - Study Reach #1 Cross Section 4: 2001 - 2002



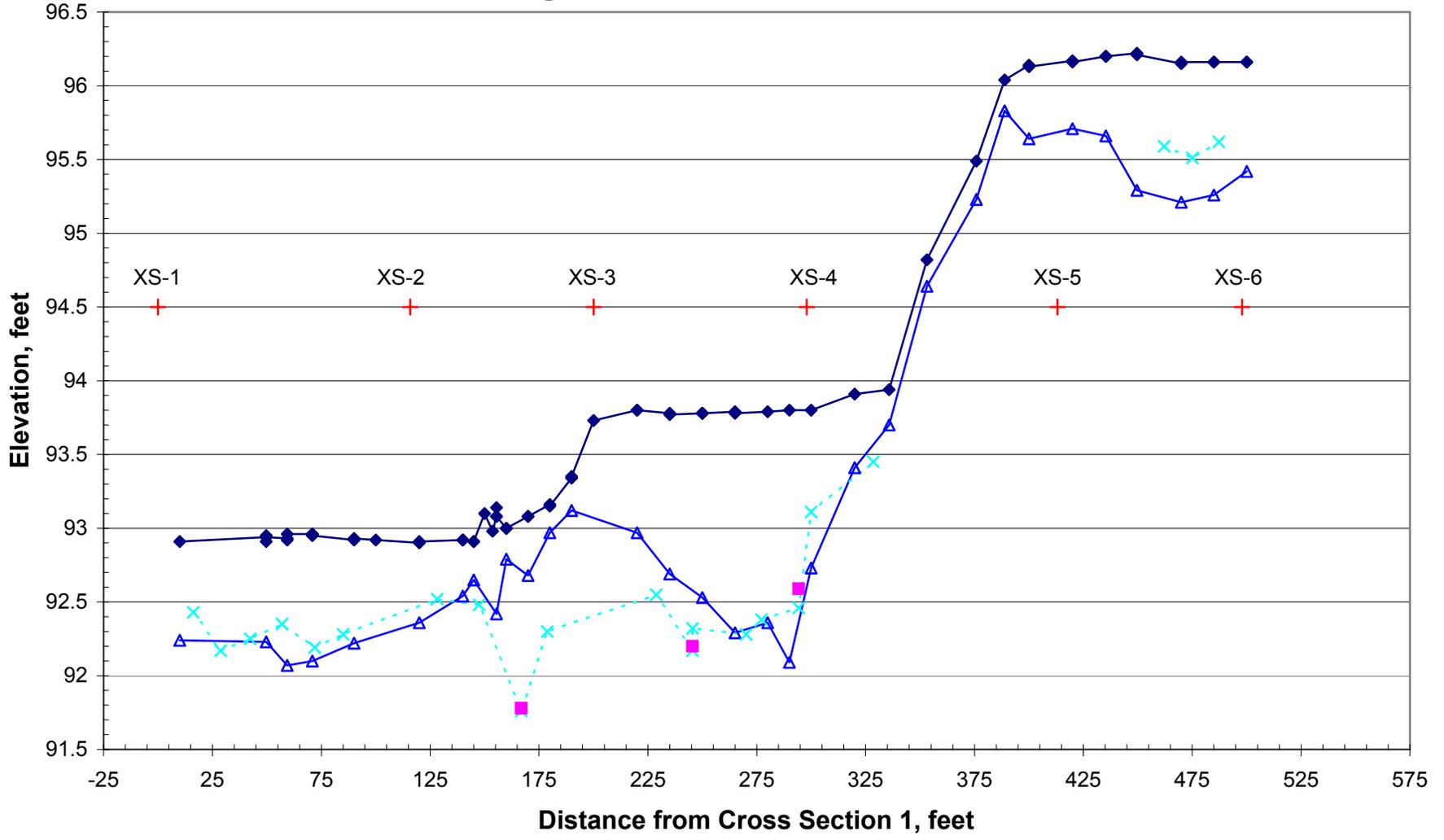
Wooden Valley Creek - Study Reach #1 Cross Section 5: 2002 - 2002



Wooden Valley Creek - Study Reach #1 Cross Section 6: 2002 - 2002



Wooden Valley Creek - Study Reach #1 Longitudinal Profile: 2001 - 2002



- ◆ 2001 Water Surface
- ▲ 2001 Thalweg
- x--- 2002 Thalweg
- 2002 Water Surface

APPENDIX 3

PHOTOGRAPHS OF MONITORING STATIONS, STUDY REACHES AND AREAS OF THE SUISUN CREEK WATERSHED

PHOTOGRAPHS OF MONITORING STATIONS — SUISUN CREEK WATERSHED



Station Suisun Creek 1 (SC1)



Station Suisun Creek 2 (SC2)



Station Suisun Creek 3 (SC3)



Station Suisun Creek 4 (SC4) — Note cement drop structure under bridge



Station Suisun Creek 5 (SC5)



***Arundo donax* clump at SC5**



Station Suisun Creek 6 (SC6) — Also the location of Suisun Creek Study Reach 1



Aquatic plant on channel bed at SC6 may be invasive waterweed *Egeria densa*



Station Suisun 7 (SC7)



SC 7 — Note algae floating on water surface



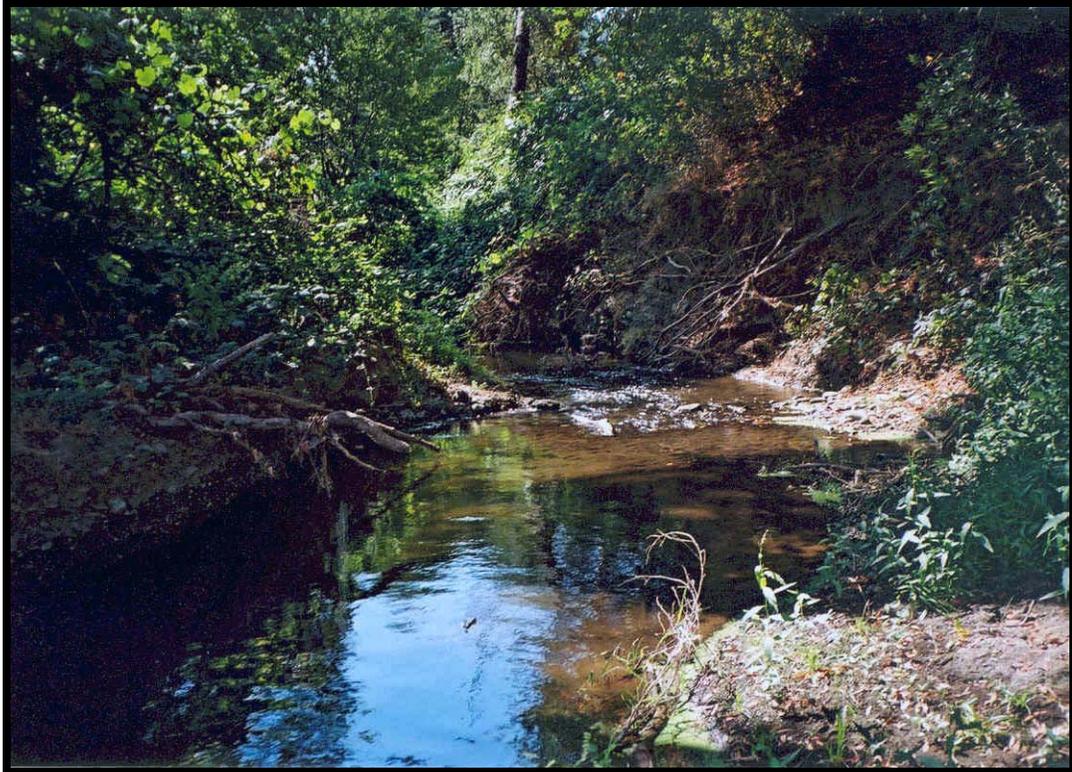
Station Suisun 8 (SC8)



SC8 showing Wooden Valley Crossroad Bridge



Station Suisun Creek 9 (SC9)



SC9



Small weir downstream of SC10



Station Suisun Creek 10 (SC10)



Station Wooden Valley Creek 1 (WV1)



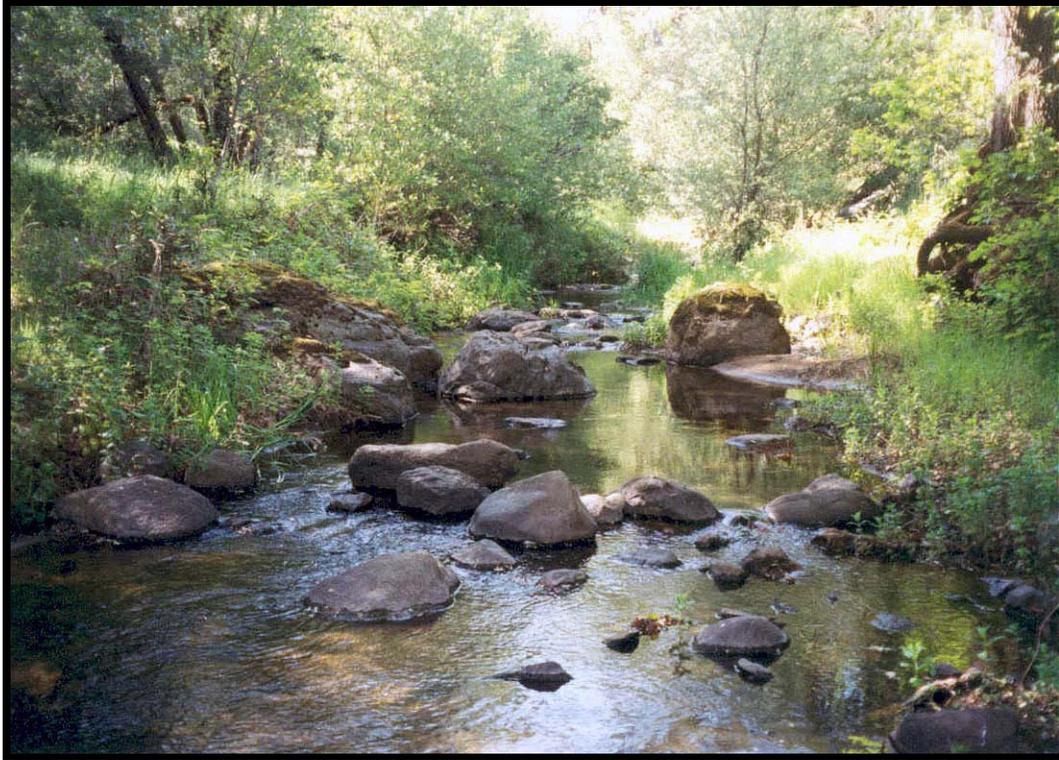
Station Wooden Valley Creek 2 (WV2)



Drop structure at Station Wooden Valley Creek 2a (WV2a)



Drop structure at Station Wooden Valley Creek 2a (WV2a) in late summer



Station Wooden Valley Creek 3 (WV3)



**Old concrete structure on Wooden Valley Creek —
may be blocking fish passage downstream of WV3**



Station Wooden Valley Creek 4 (WV4)



Station Wooden Valley Creek 5 (WV5)



Station Wooden Valley Creek 6 (WV6) prior to maintenance project



Station Wooden Valley 6 (WV6) after maintenance project



Station White Creek 1 (WC1)



Station White Creek 2 (WC2)



Station White Creek 3 (WC3)



Station White Creek 3 in August 2002



Dead steelhead or rainbow trout at Station White Creek 3 after pool dried in 2002



Station White Creek 4 (WC4)



White Creek in Spring