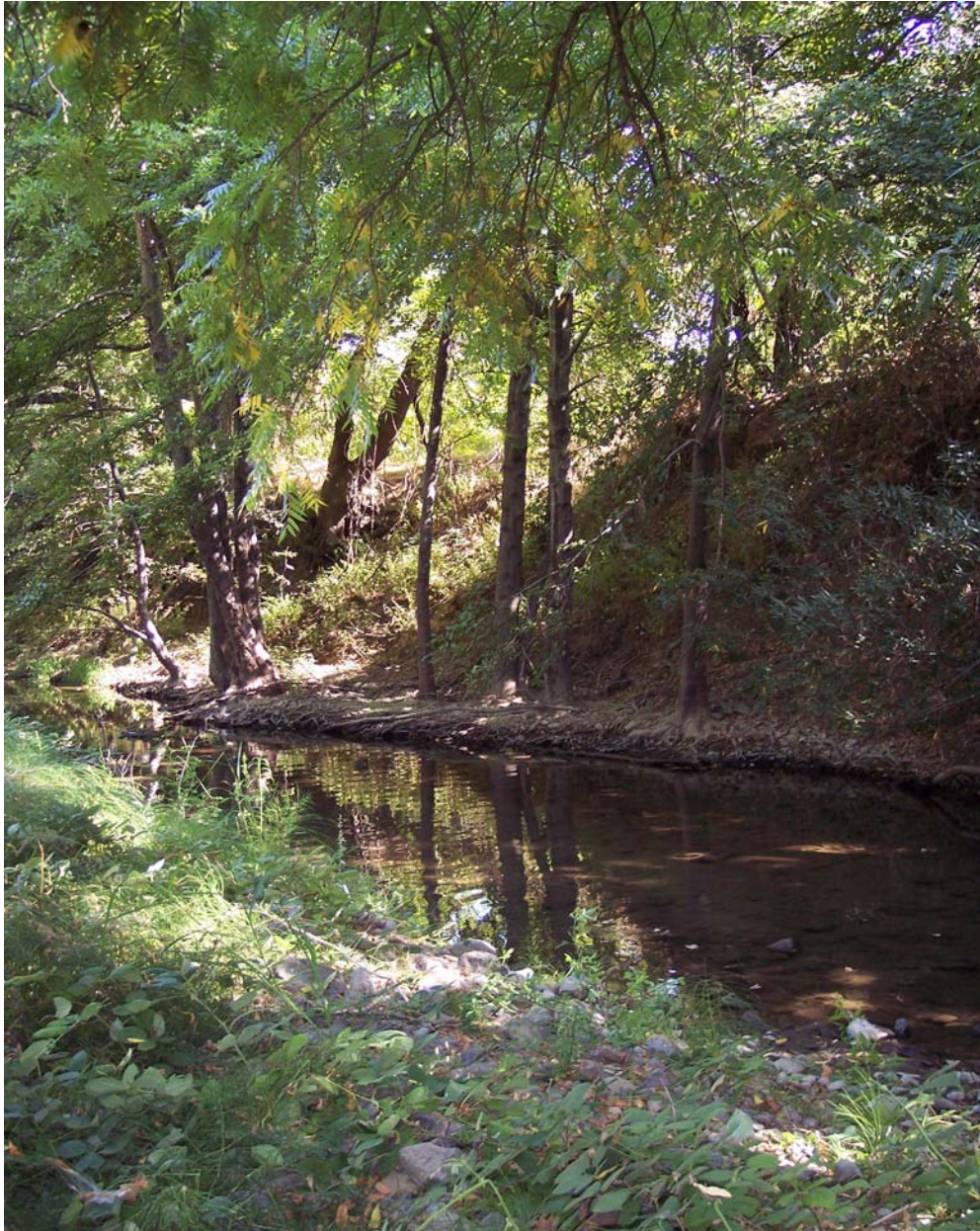


**SUISUN CREEK WATERSHED ENHANCEMENT PROGRAM  
SUMMARY OF MONITORING RESULTS 2002-2010  
APPENDICES**



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**SUISUN CREEK WATERSHED ENHANCEMENT PROGRAM  
SUMMARY OF MONITORING RESULTS  
2002-2010**

**INTRODUCTION**

The Suisun Creek watershed encompasses 53 square miles in Napa and Solano counties. The watershed has no urban areas. Three major creeks—White Creek, Wooden Valley Creek, and Suisun Creek—drain a watershed of steep, mountainous terrain and several large valleys into the Suisun Marsh and Suisun Bay (Figure 1). Steelhead trout (*Oncorhynchus mykiss*), a federally listed threatened species, have been found in the three main creeks of the watershed. The City of Vallejo owns and operates Lake Curry located on the northern end of Suisun Creek.

Land use in the watershed is almost entirely rural: cattle grazing and irrigated agriculture consisting of winegrapes, fruit and nut orchards and row crops. A small amount of urban development occurs along Suisun Creek from Rockville Road to Interstate 80. Major roads in the drainage include Suisun Valley Road, Wooden Valley Road, Gordon Valley Road, Highway 121 and Interstate 80.

The main creeks in the drainage are primarily open undeveloped channels lined with native vegetation. Table 1 describes the features of each creek.

**Table 1: Features of Primary Creeks in the Suisun Creek Watershed**

<b>Creek</b>	<b>Length</b>	<b>Watershed Area</b>	<b>Additional Features</b>
White Creek	4.0 miles	6.6 square miles	Leona Lakes at headwaters
Wooden Valley Creek	6.8 miles	15.2 square miles (including White Creek watershed)	Drains alluvial Wooden Valley with 3 channels, then becomes 1 channel through rock gorge
Suisun Creek	14 miles (downstream of Lake Curry)	53 square miles	Lake Curry in northern area, creek drains wide alluvial Suisun Valley

**BACKGROUND**

In 2001 the California Sportfishing Protection Alliance (CSPA) working with Laurel Marcus & Associates (LMA) received a grant from the Ca. State Coastal Conservancy to prepare a watershed assessment and enhancement plan for the Suisun Creek watershed. Water temperature, water quality, and geomorphic monitoring were carried out for the watershed plan between 2001 and 2003. Extensive mapping of riparian forest and field studies of aquatic habitats was also completed. From this assessment the Enhancement Plan identified a number of actions and projects including:

Analysis of Summertime Stream Temperature Records for  
Suisun Creek, Wooden Valley Creek and White Creek  
2002 through 2010

Attachment 1  
Suisun Creek Temperature Records

### Suisun Creek 1 June - November 2002

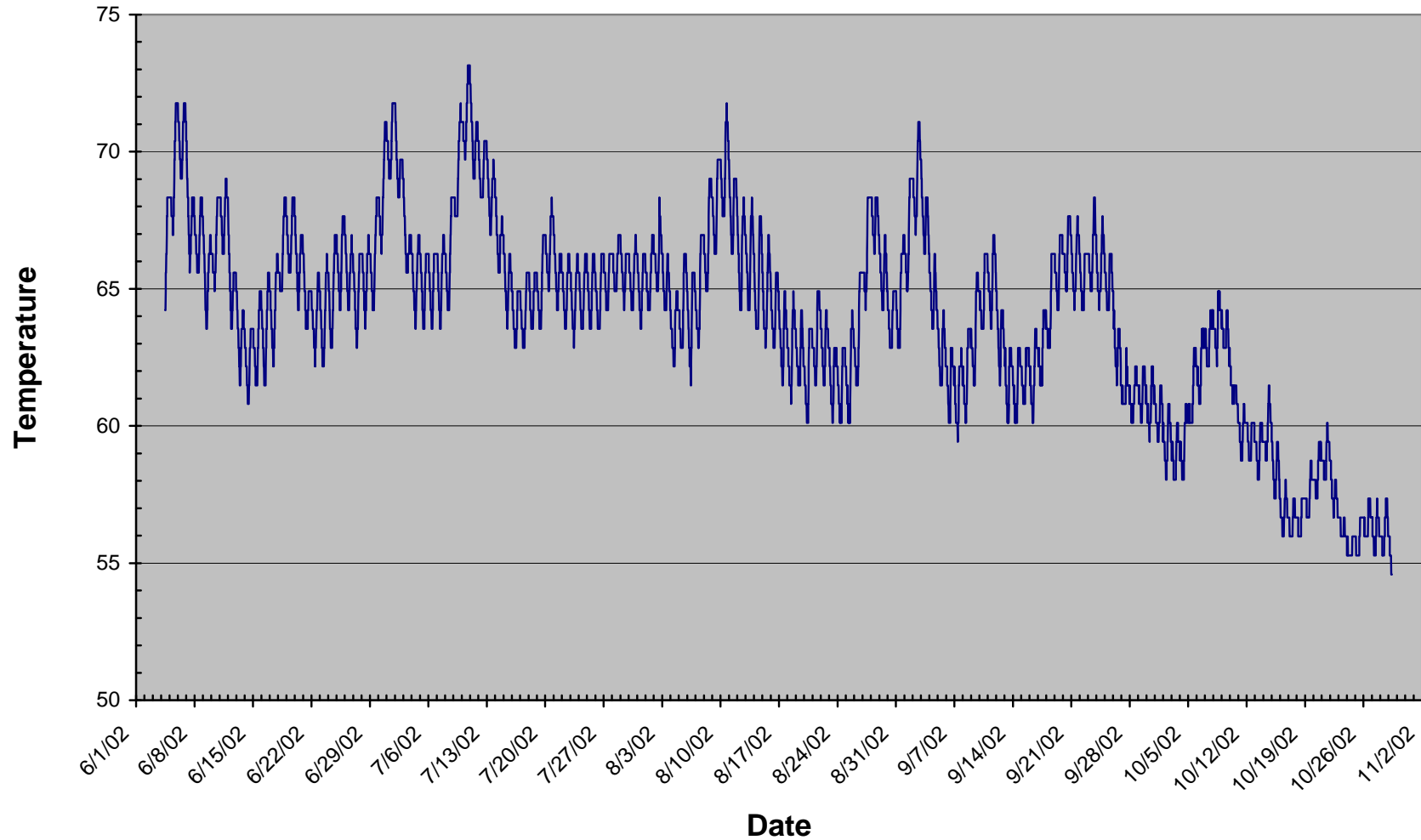


Figure SC-1. Monitoring Station Suisun Creek 1, 2002, water temperature.

### Suisun Creek 2 June - November 2002

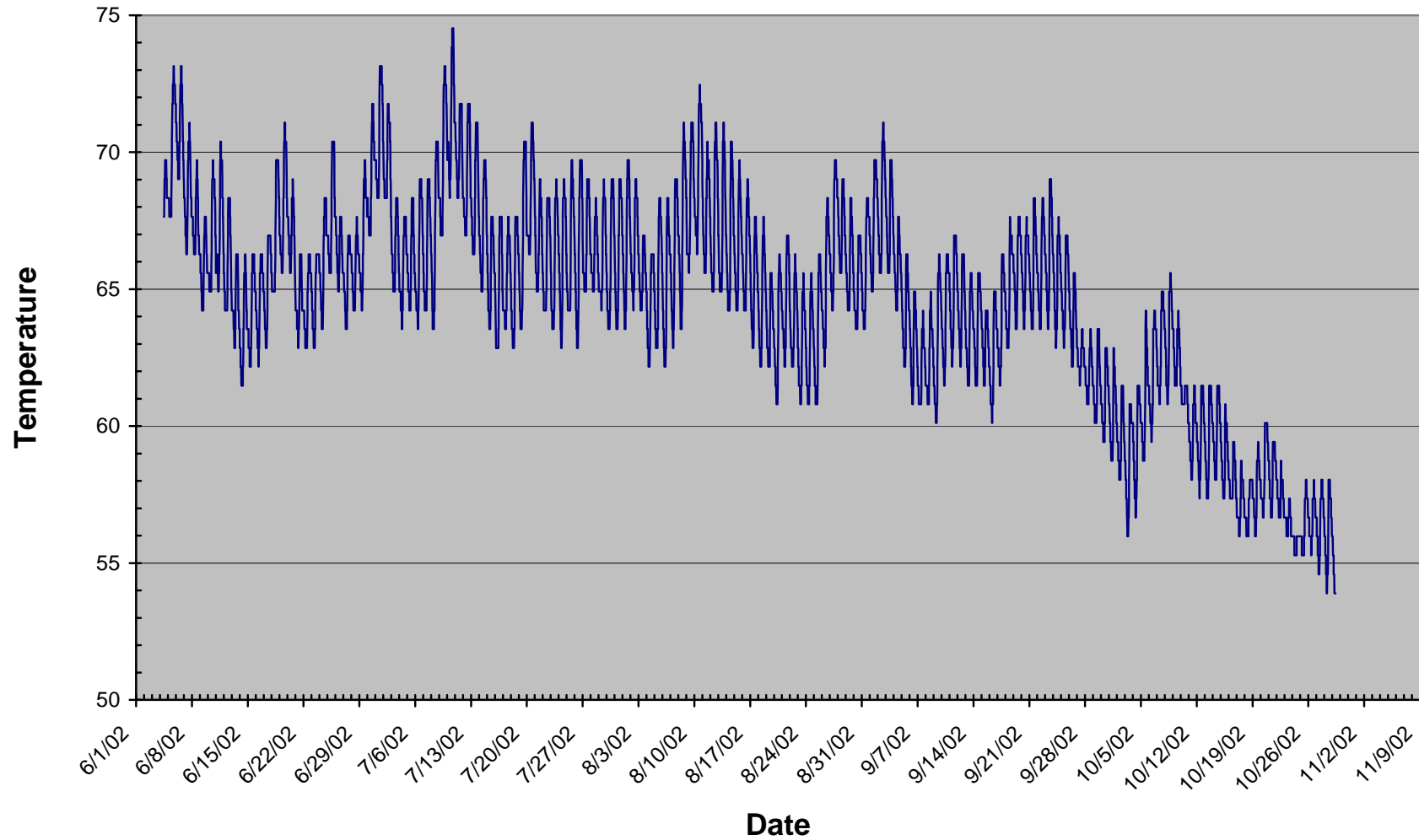


Figure SC-2. Monitoring Station Suisun Creek 2, 2002, water temperature.

### Suisun Creek 3 June - November 2002

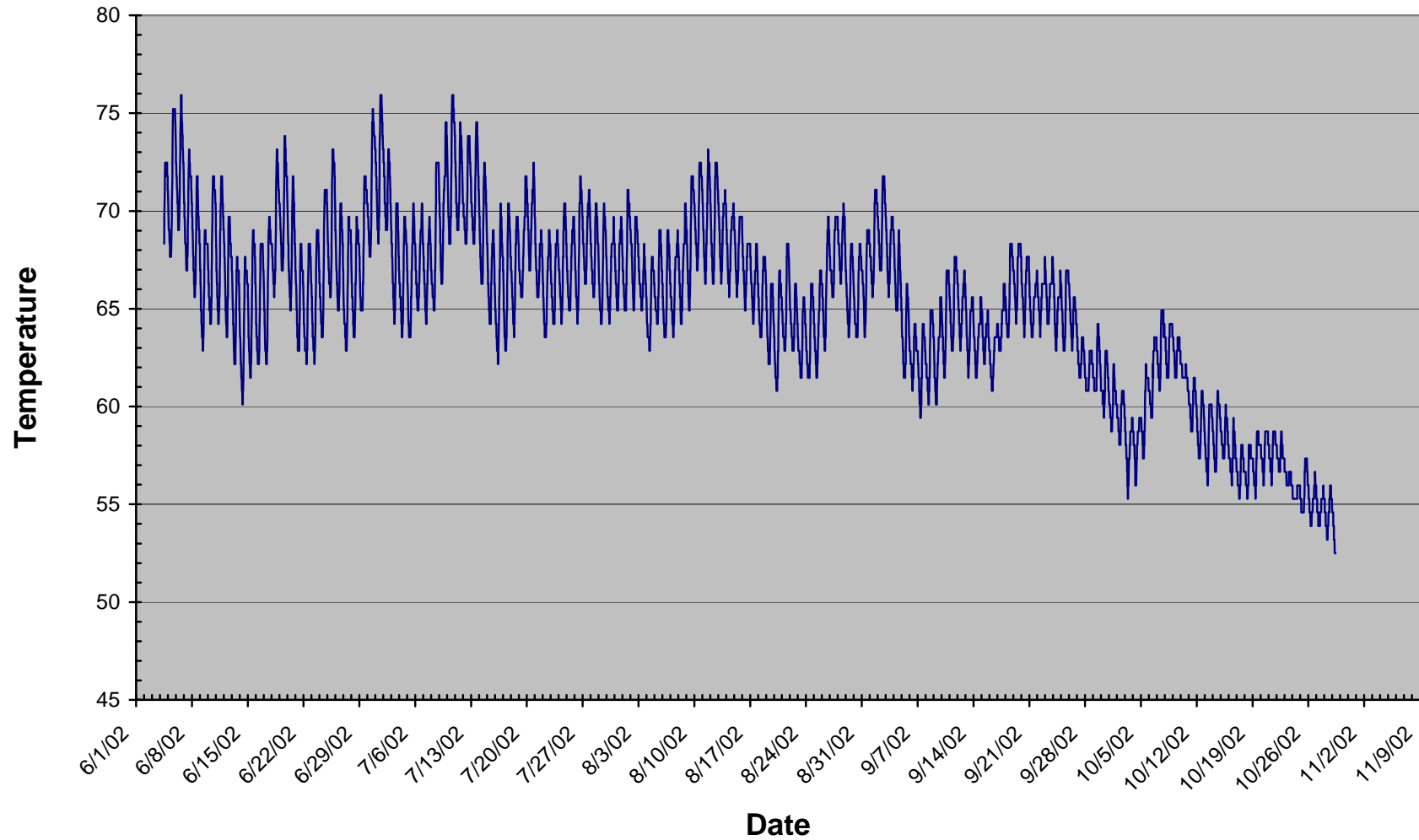


Figure SC-3. Monitoring Station Suisun Creek 3, 2002, water temperature.

### Suisun Creek 4 June - November 2002

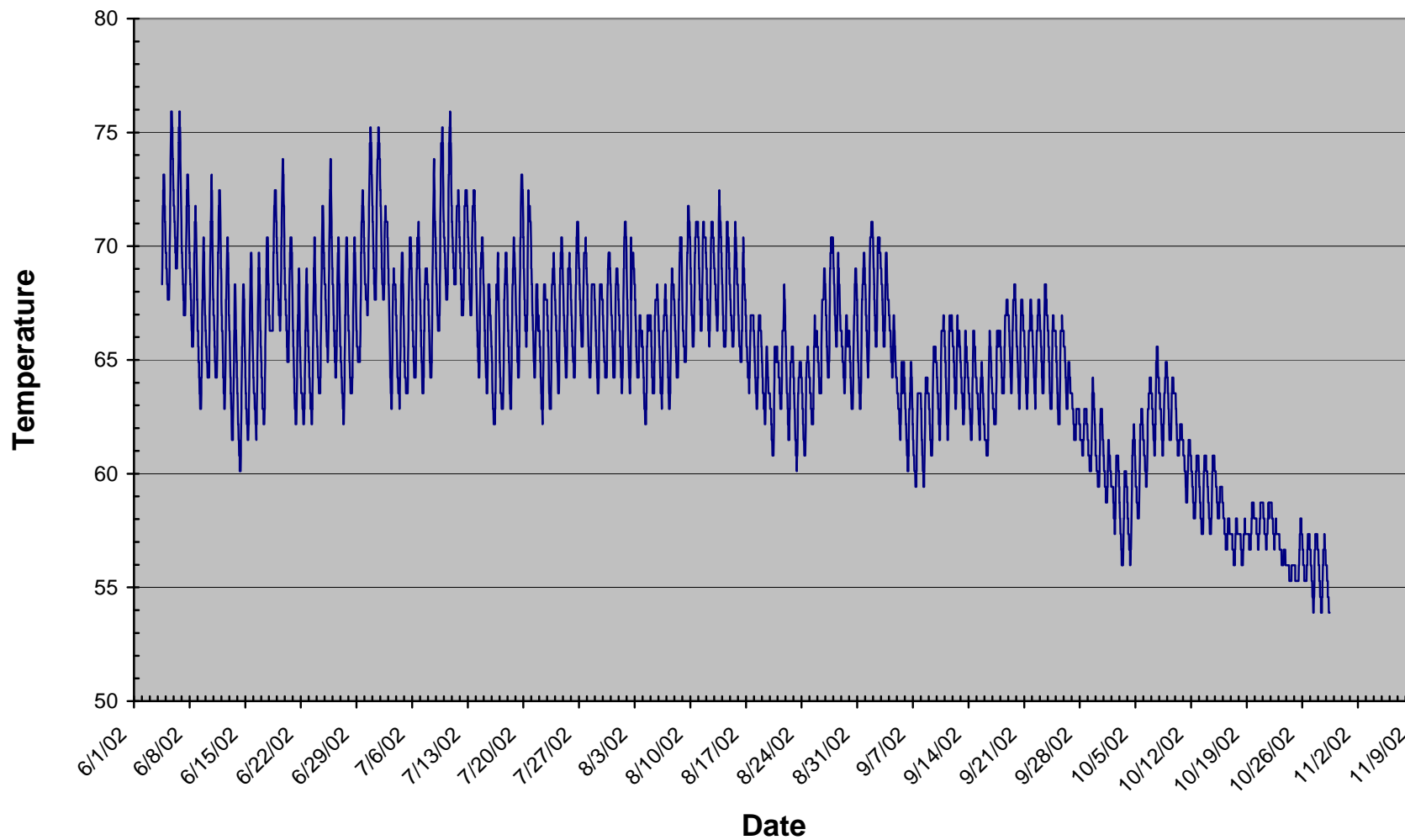


Figure SC-4. Monitoring Station Suisun Creek 4, 2002, water temperature.

### Suisun Creek 5 June - October 2002

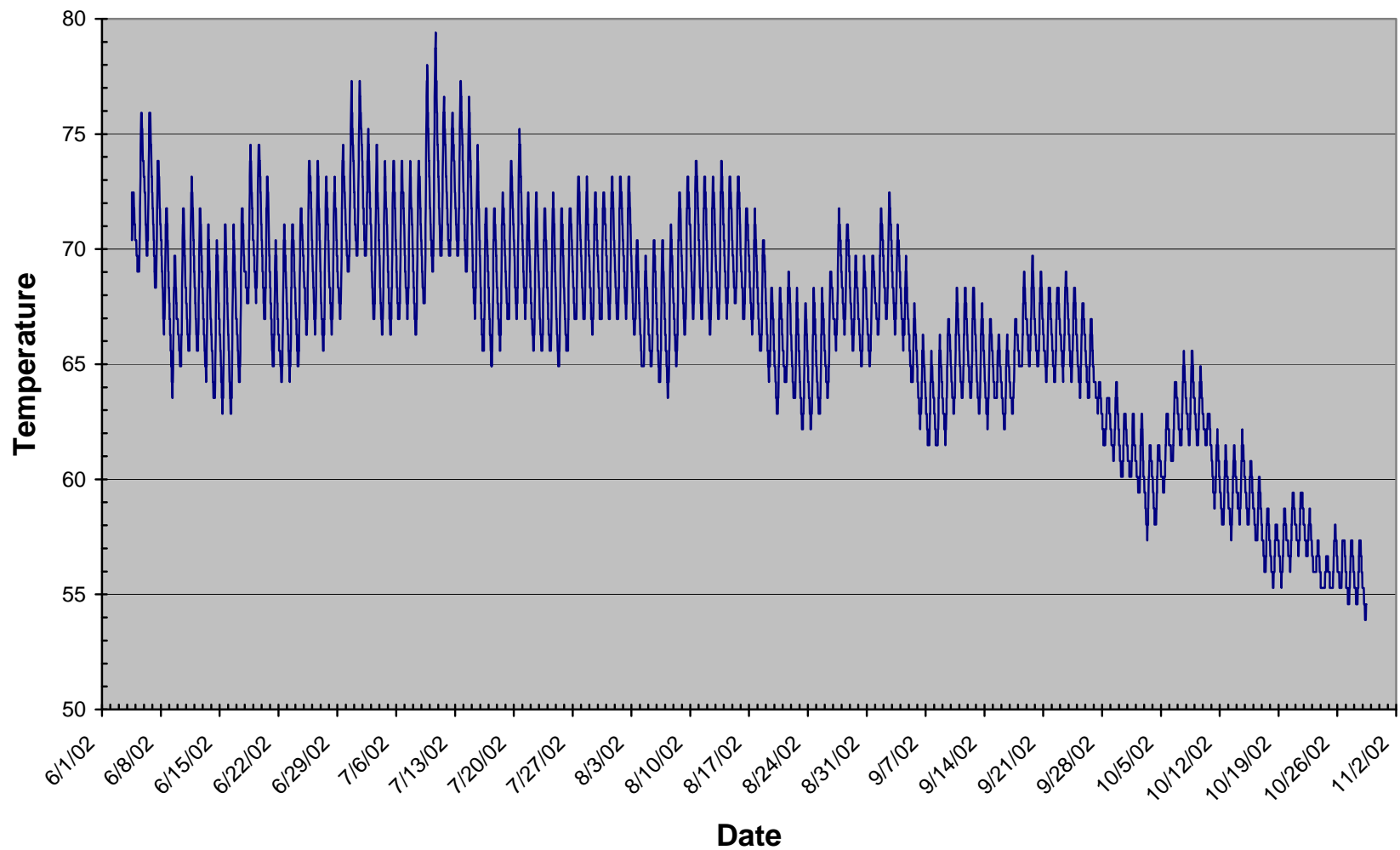


Figure SC-5. Monitoring Station Suisun Creek 5, 2002, water temperature.



### Suisun Creek 6 June - November 2002

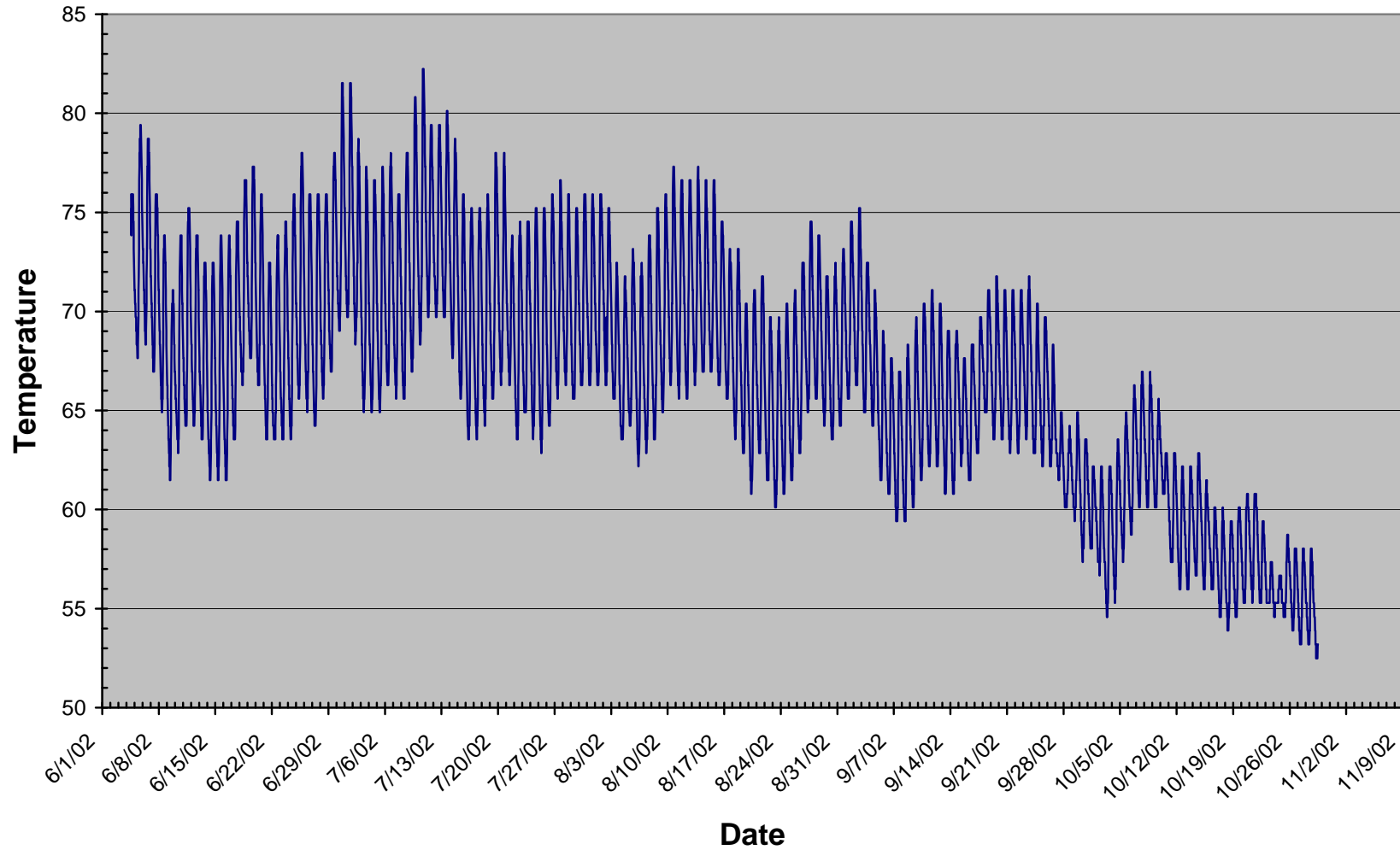


Figure SC-6. Monitoring Station Suisun Creek 6, 2002, water temperature.

### Suisun Creek 7 June - September 2002

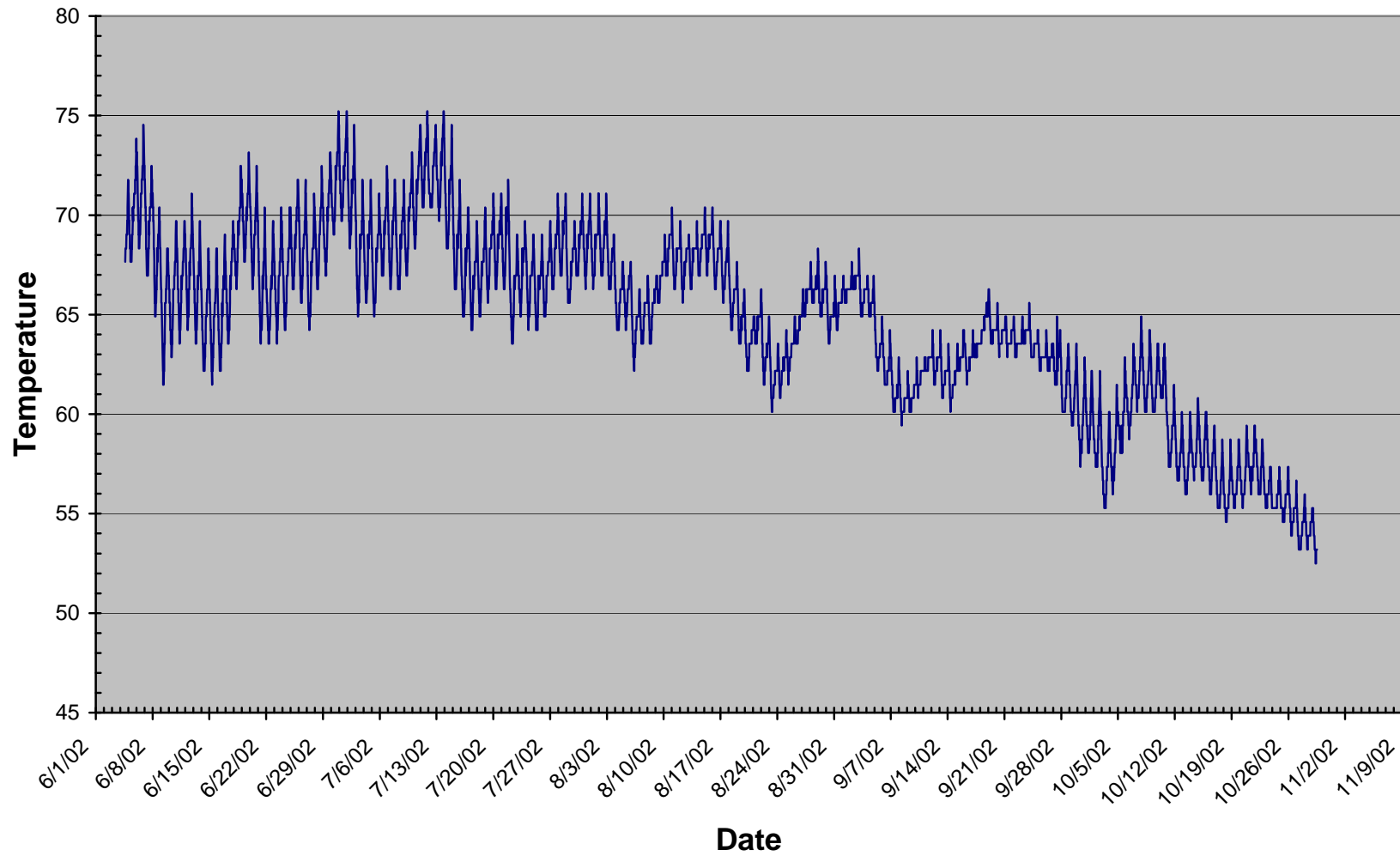


Figure SC-7. Monitoring Station Suisun Creek 7, 2002, water temperature.

### Suisun Creek 8 June - November 2002

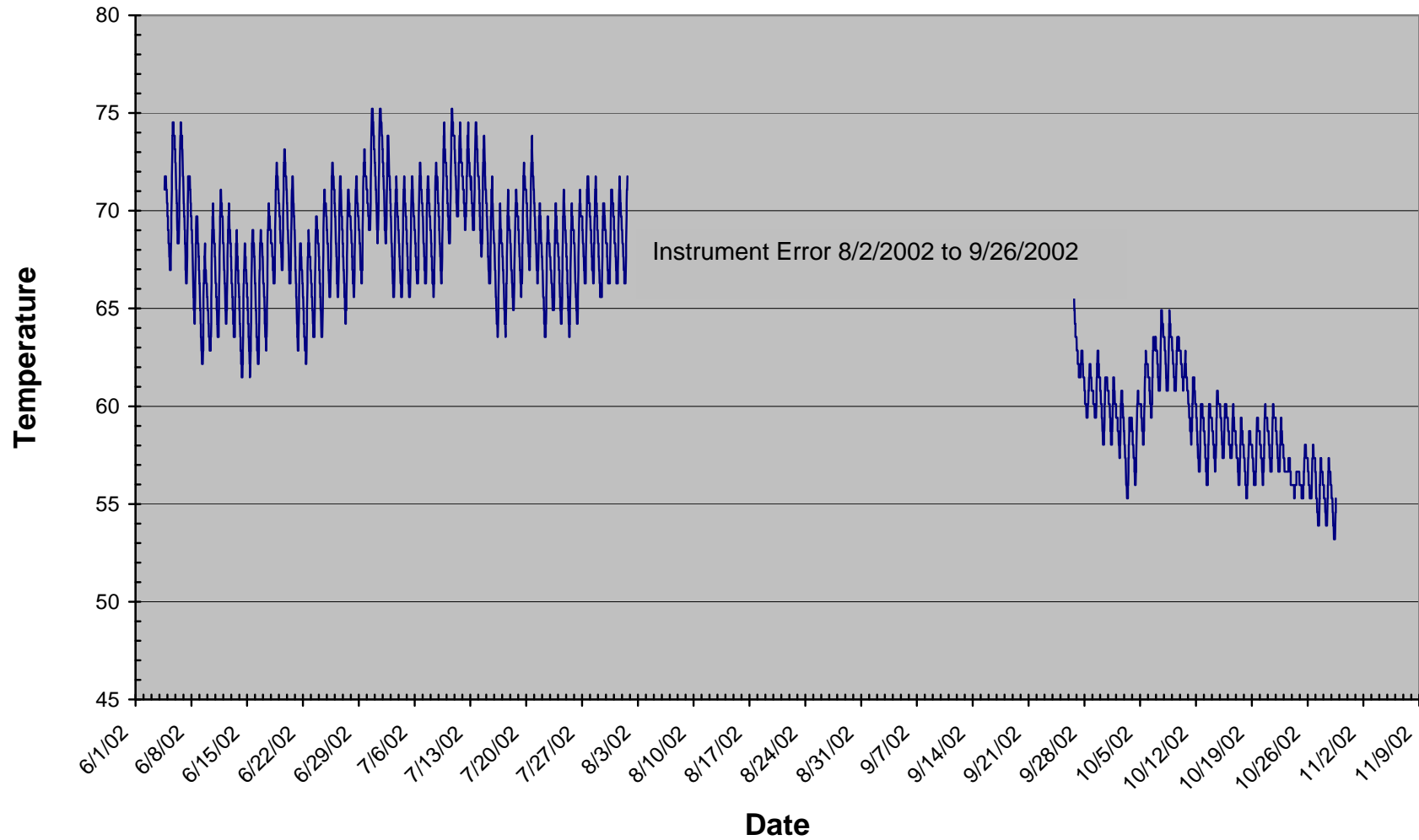


Figure SC-8. Monitoring Station Suisun Creek 8, 2002, water temperature.

### Suisun Creek 9 June - November 2002

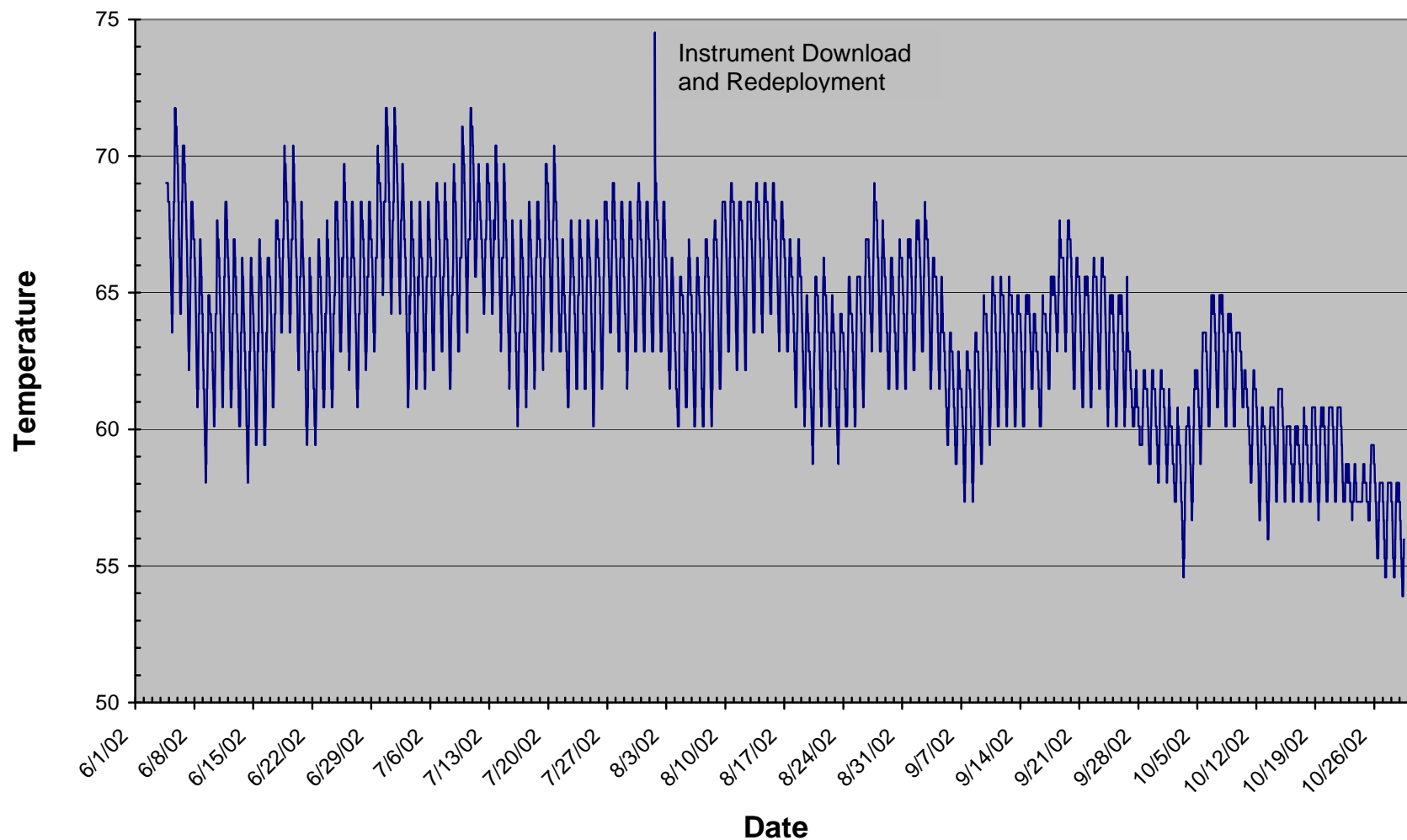


Figure SC-9. Monitoring Station Suisun Creek 9, 2002, water temperature.

Figure SC-10. Suisun Creek 13, 2002, air temperature collected at SC-6 near the Napa County line. **INSTRUMENT MALFUNCTION – NO DATA.**

### Suisun Creek 1 May - November 2003

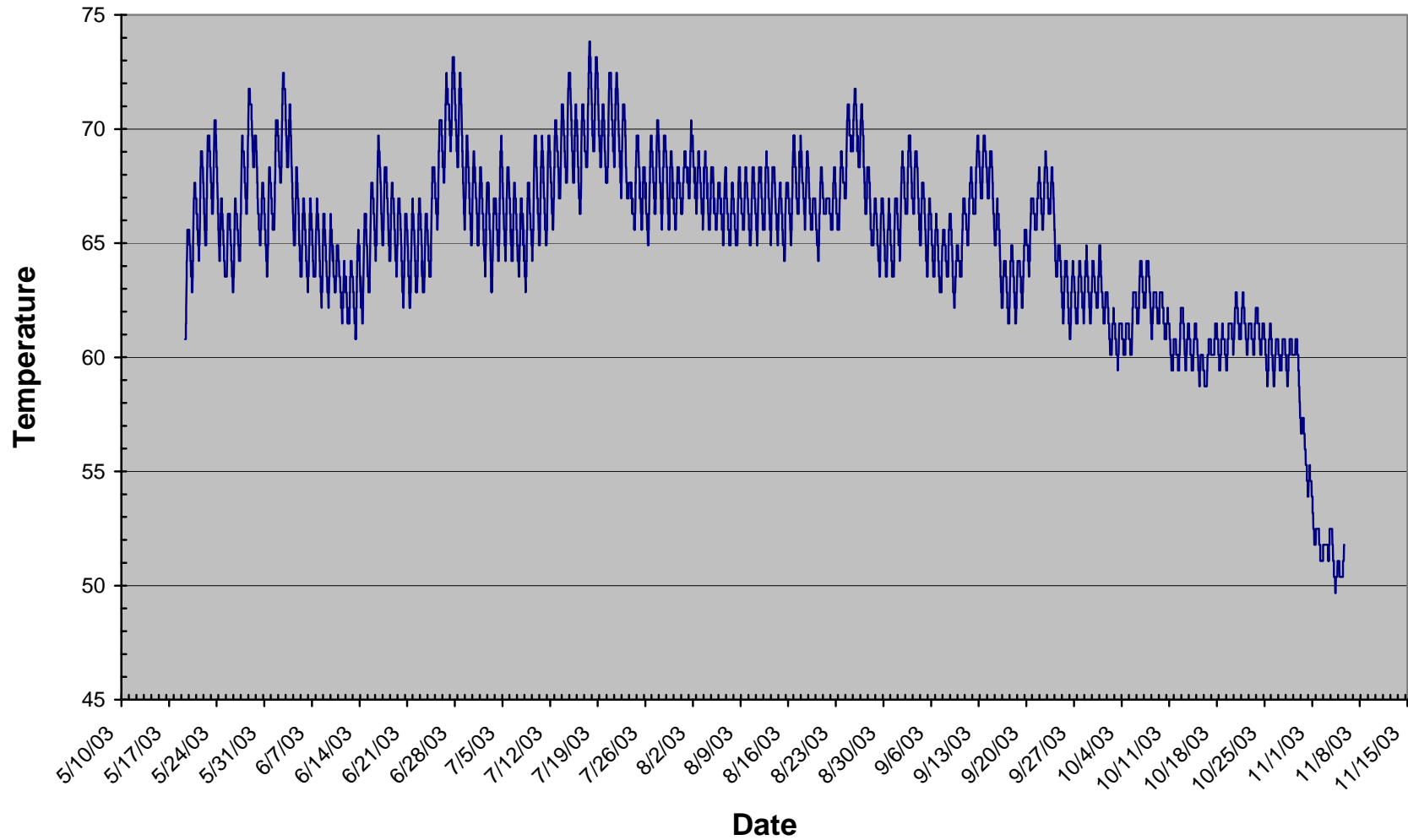


Figure SC-11. Monitoring Station Suisun Creek 1, 2003, water temperature.

### Suisun Creek 2 June - November 2003

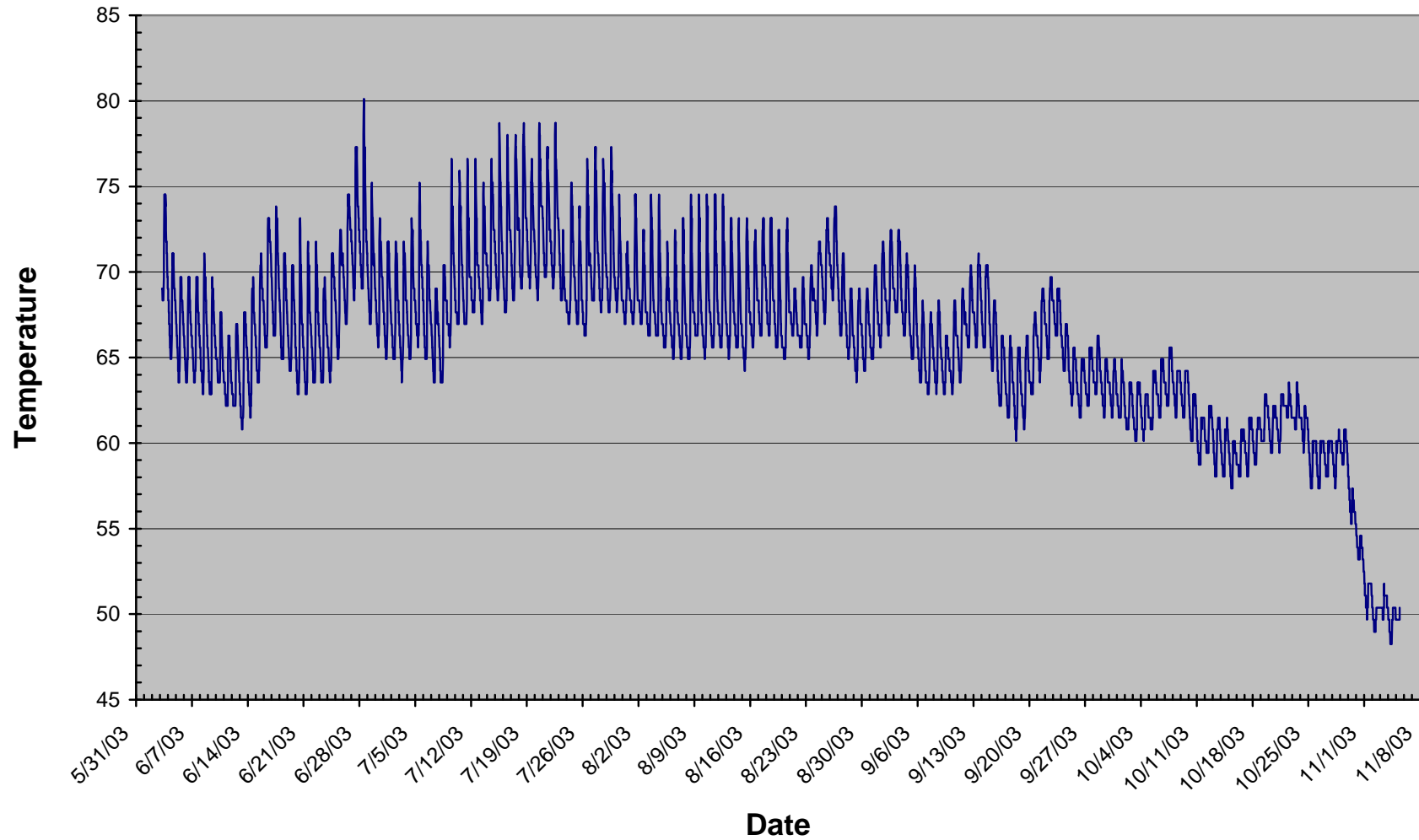


Figure SC-12. Monitoring Station Suisun Creek 2, 2003, water temperature.

### Suisun Creek 3 June - November 2003

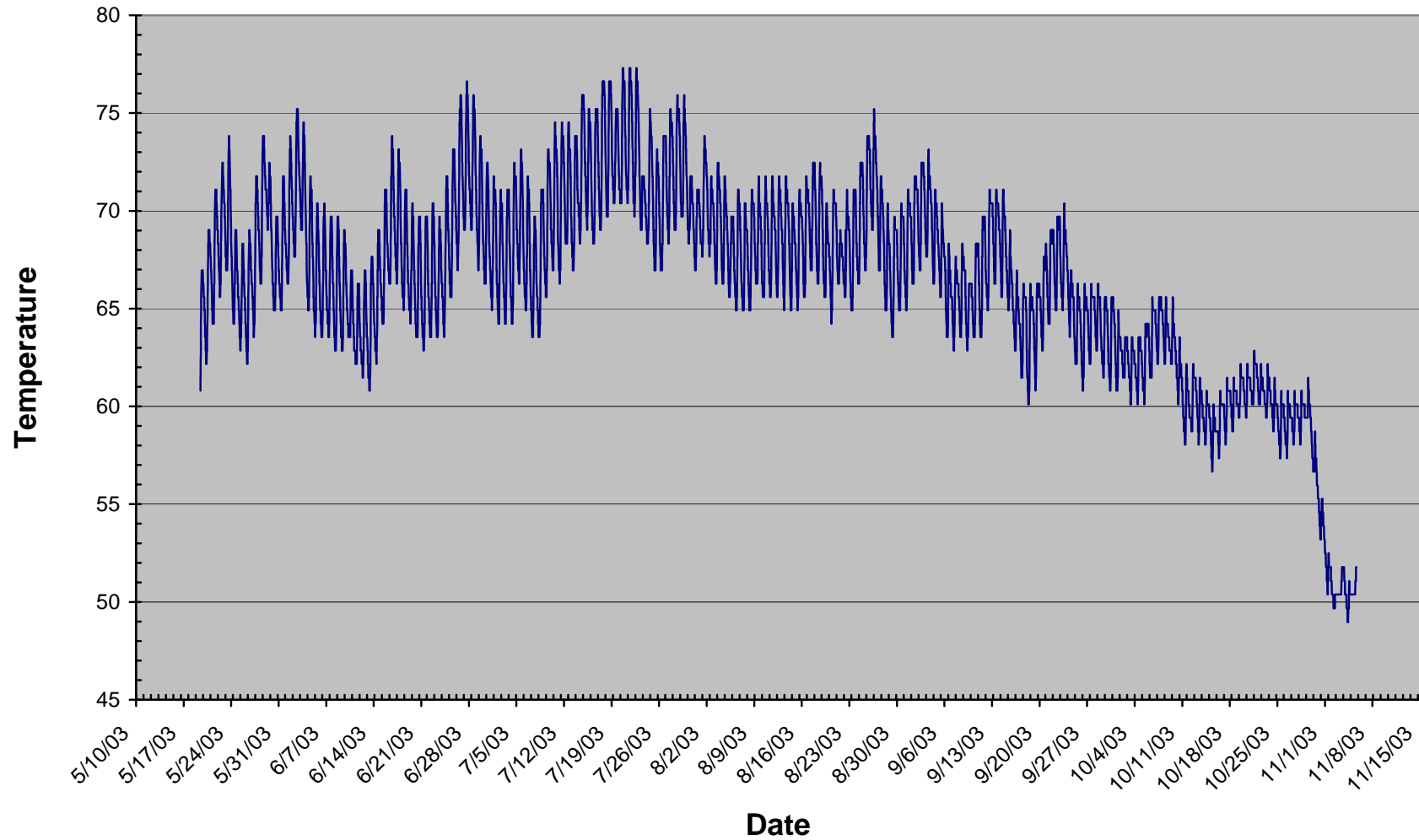


Figure SC-13. Monitoring Station Suisun Creek 3, 2003, water temperature.



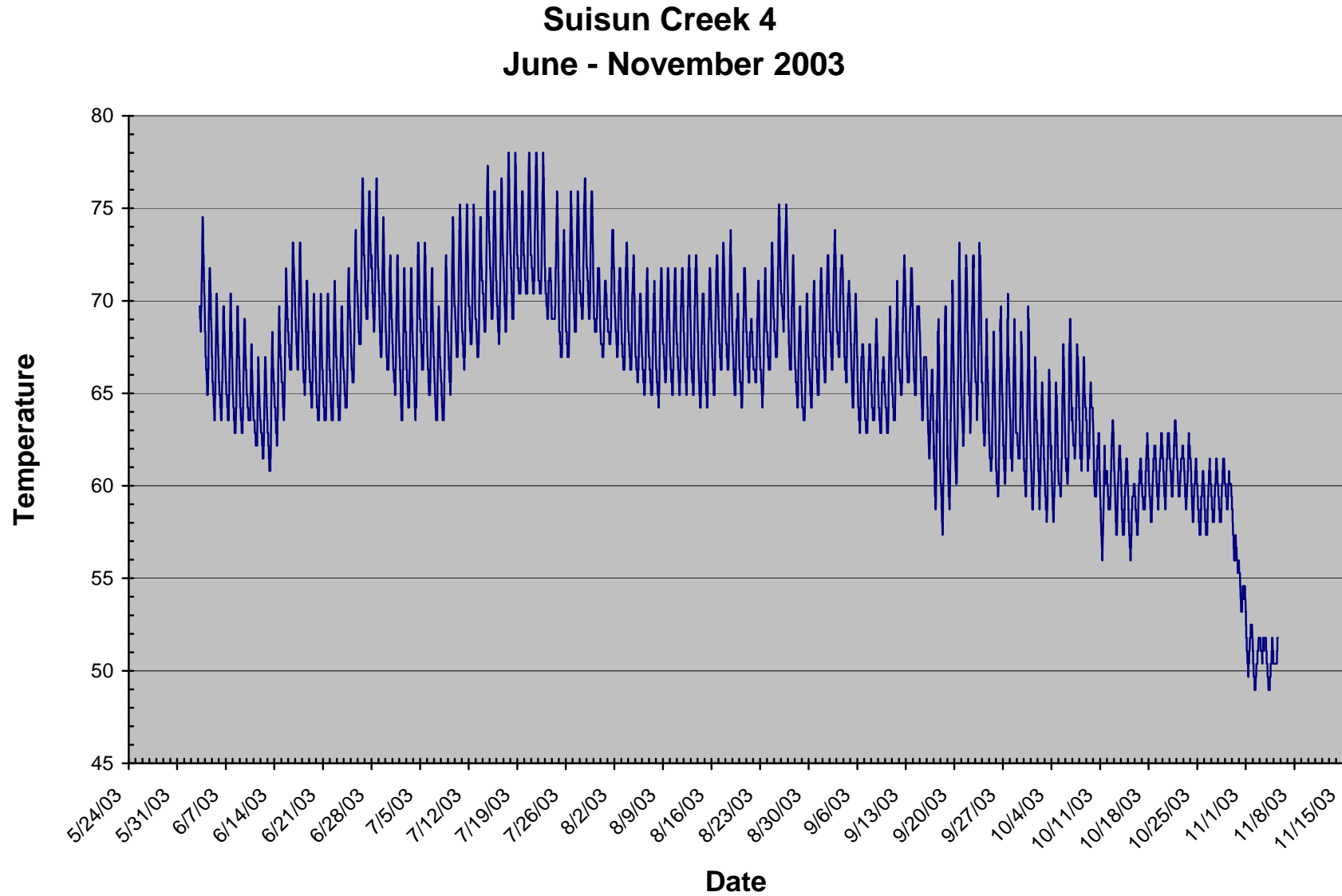


Figure SC-14. Monitoring Station Suisun Creek 4, 2003, water temperature.

### Suisun Creek 5 June - November 2003

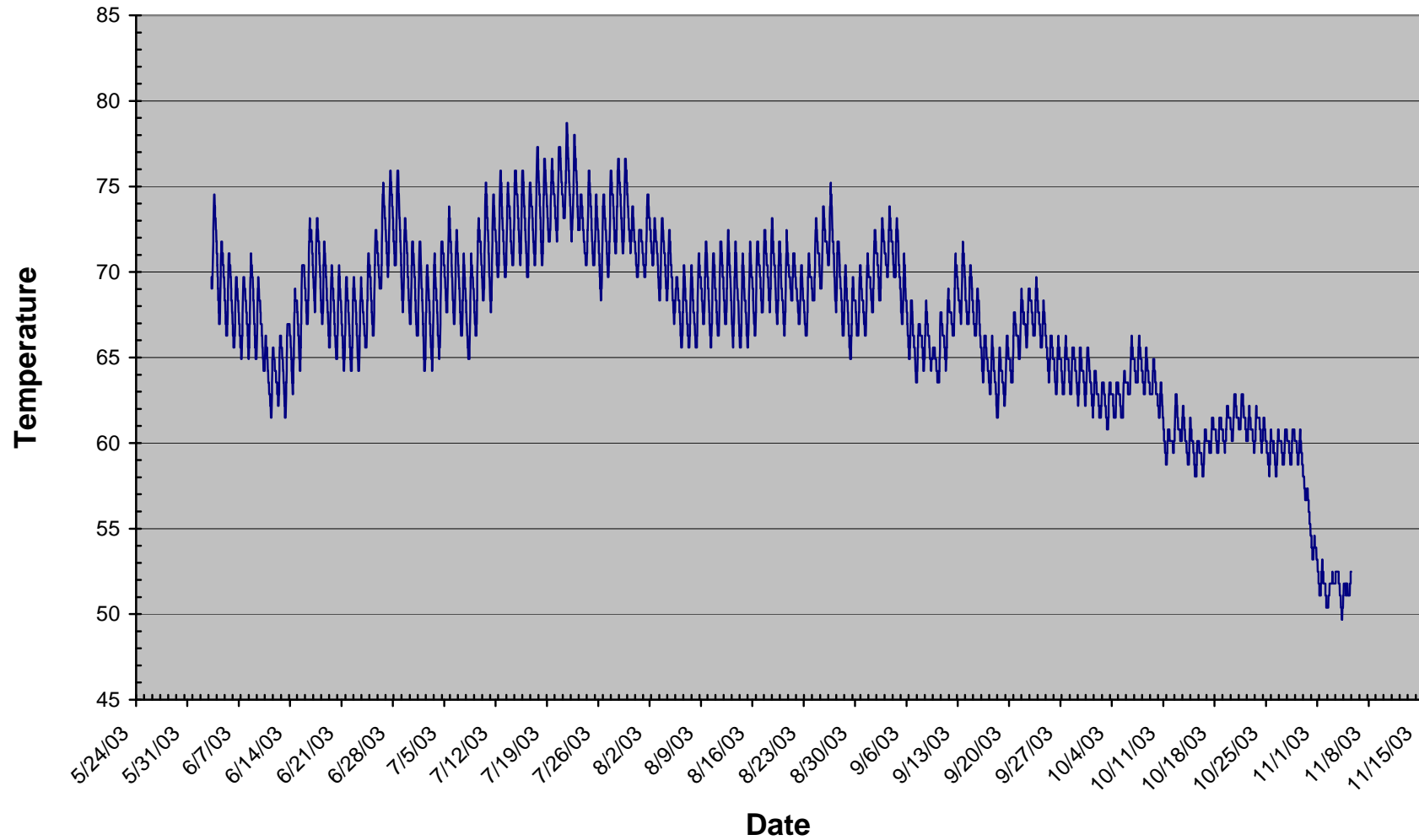


Figure SC-15. Monitoring Station Suisun Creek 5, 2003, water temperature.

### Suisun Creek 6 June - November 2003

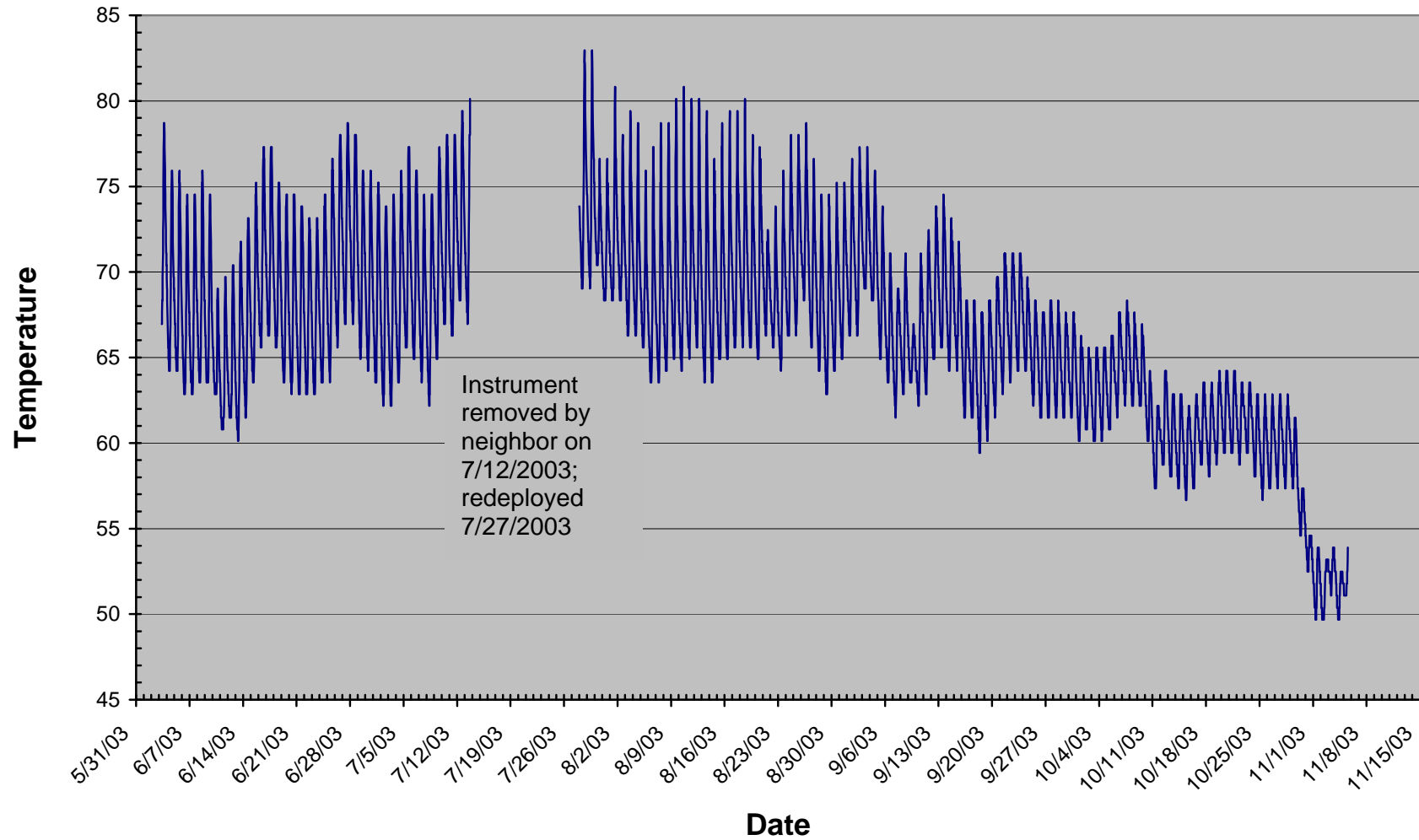


Figure SC-16. Monitoring Station Suisun Creek 6, 2003, water temperature.

### Suisun Creek 7 June - November 2003

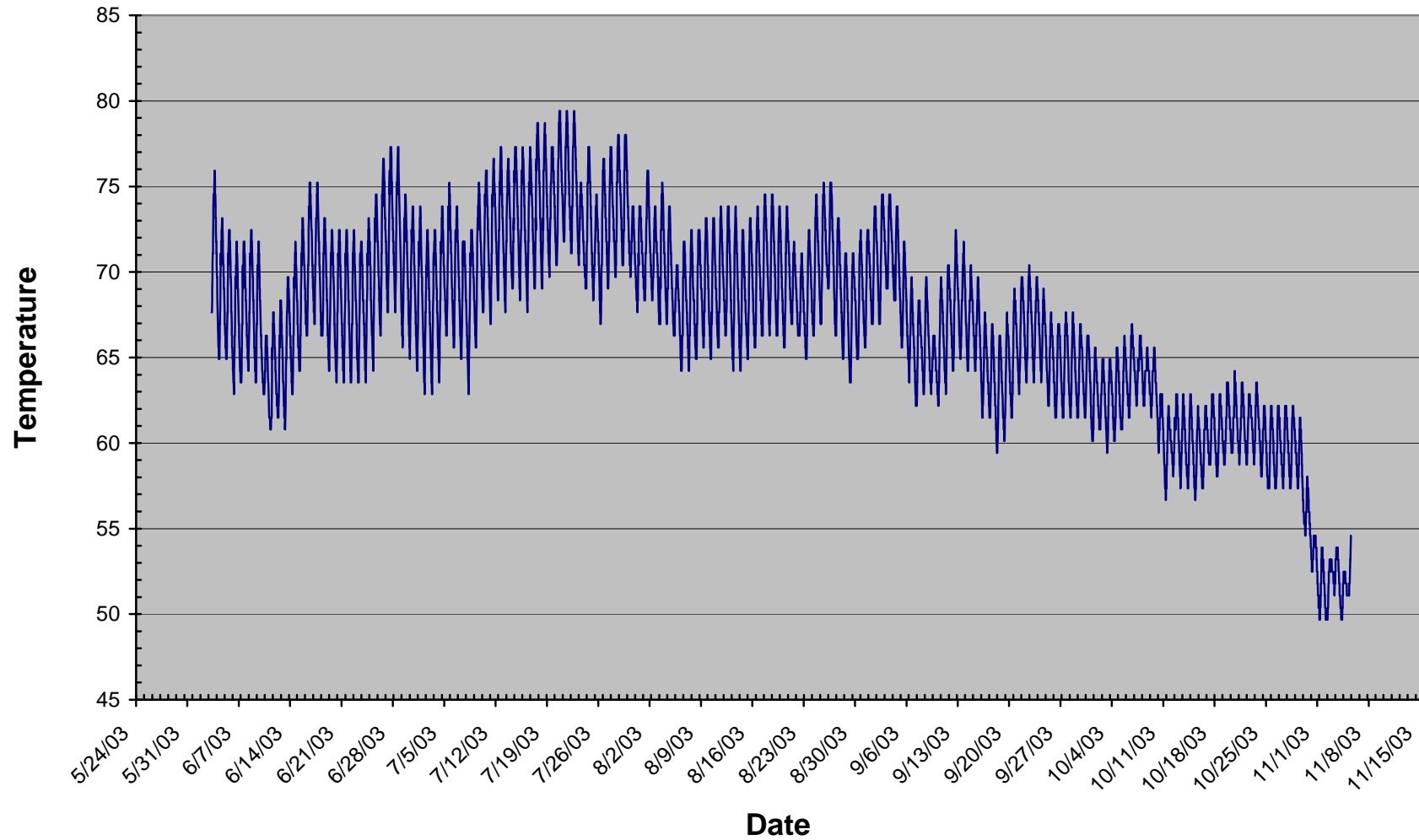


Figure SC-17. Monitoring Station Suisun Creek 7, 2003, water temperature.

### Suisun Creek 8 June - November 2003

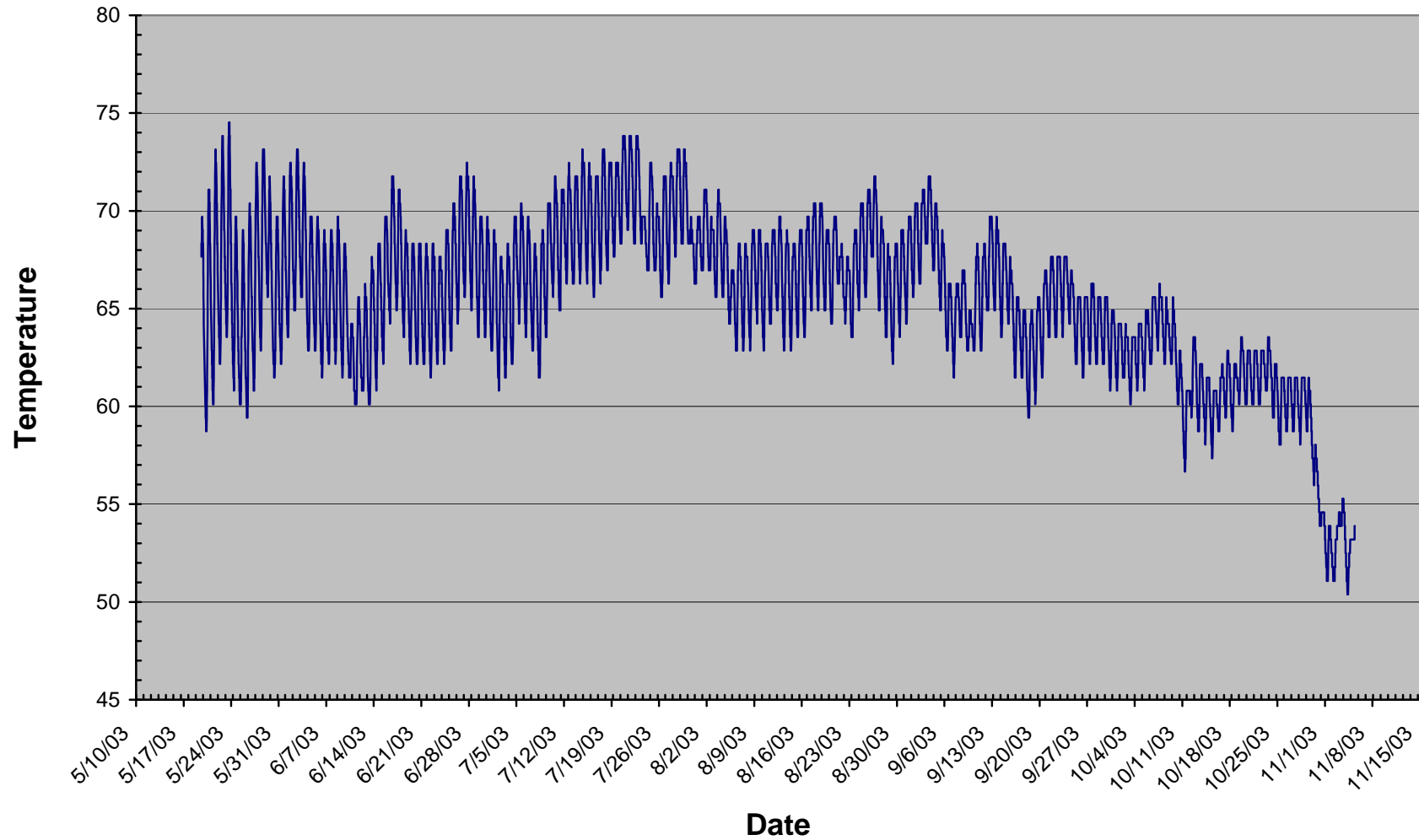


Figure SC-18. Monitoring Station Suisun Creek 8, 2003, water temperature.

### Suisun Creek 9 June - November 2003

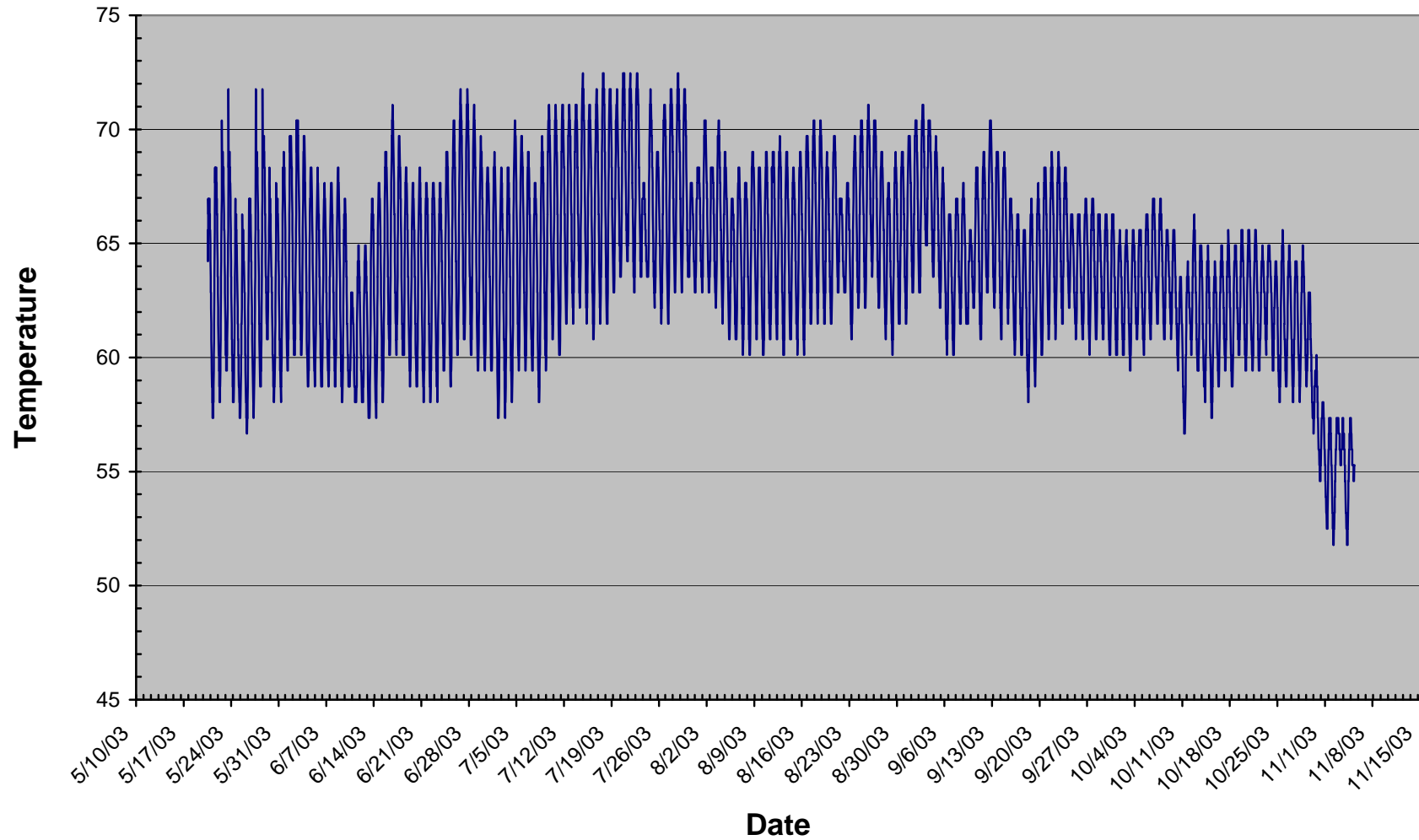


Figure SC-19. Monitoring Station Suisun Creek 9, 2003, water temperature.

### Suisun Creek 10 June - November 2003

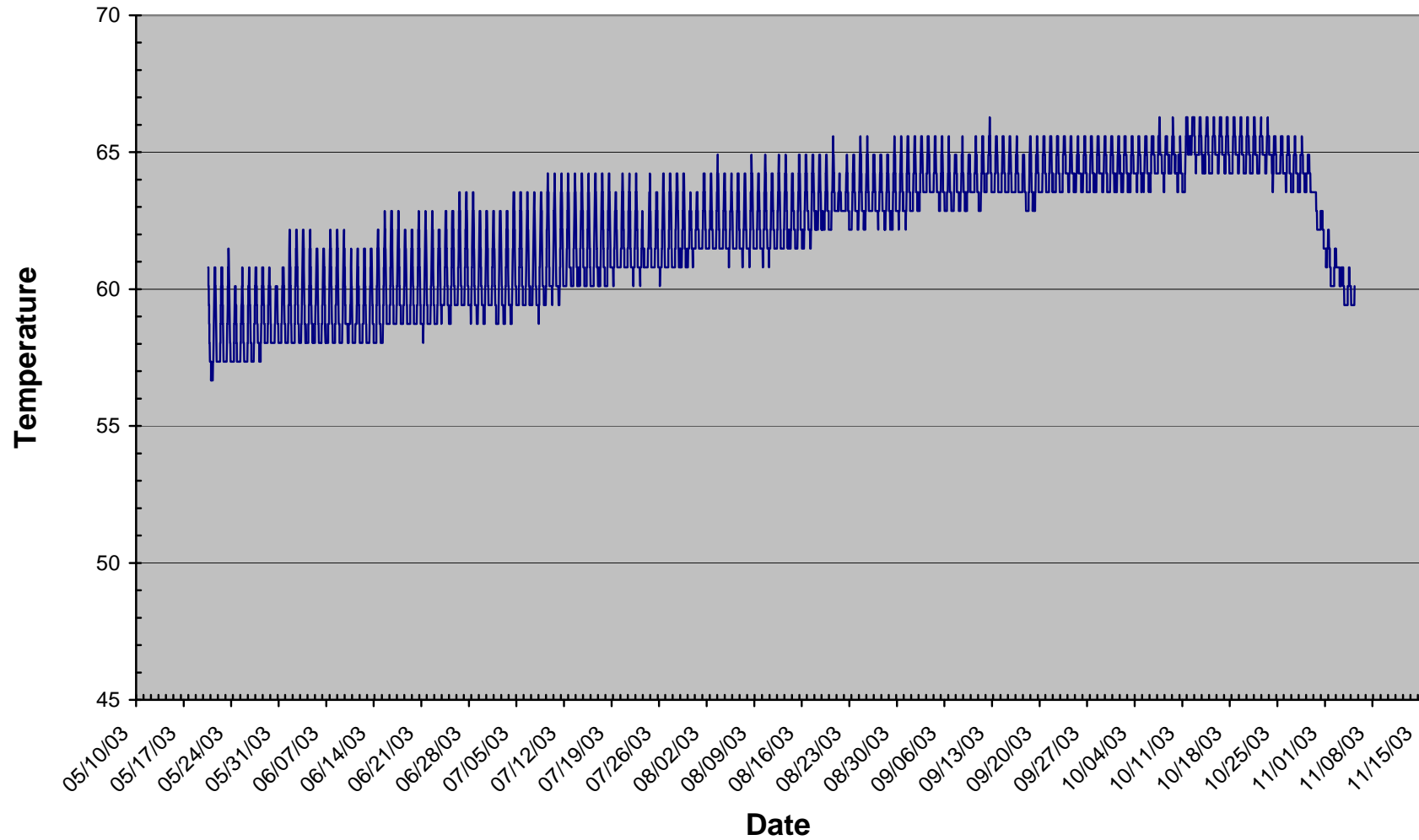


Figure SC-20. Monitoring Station Suisun Creek 10, 2003, water temperature. Station is located 850 feet downstream of the Lake Curry dam.

### Suisun Creek 13 Air Temperature May - November 2003

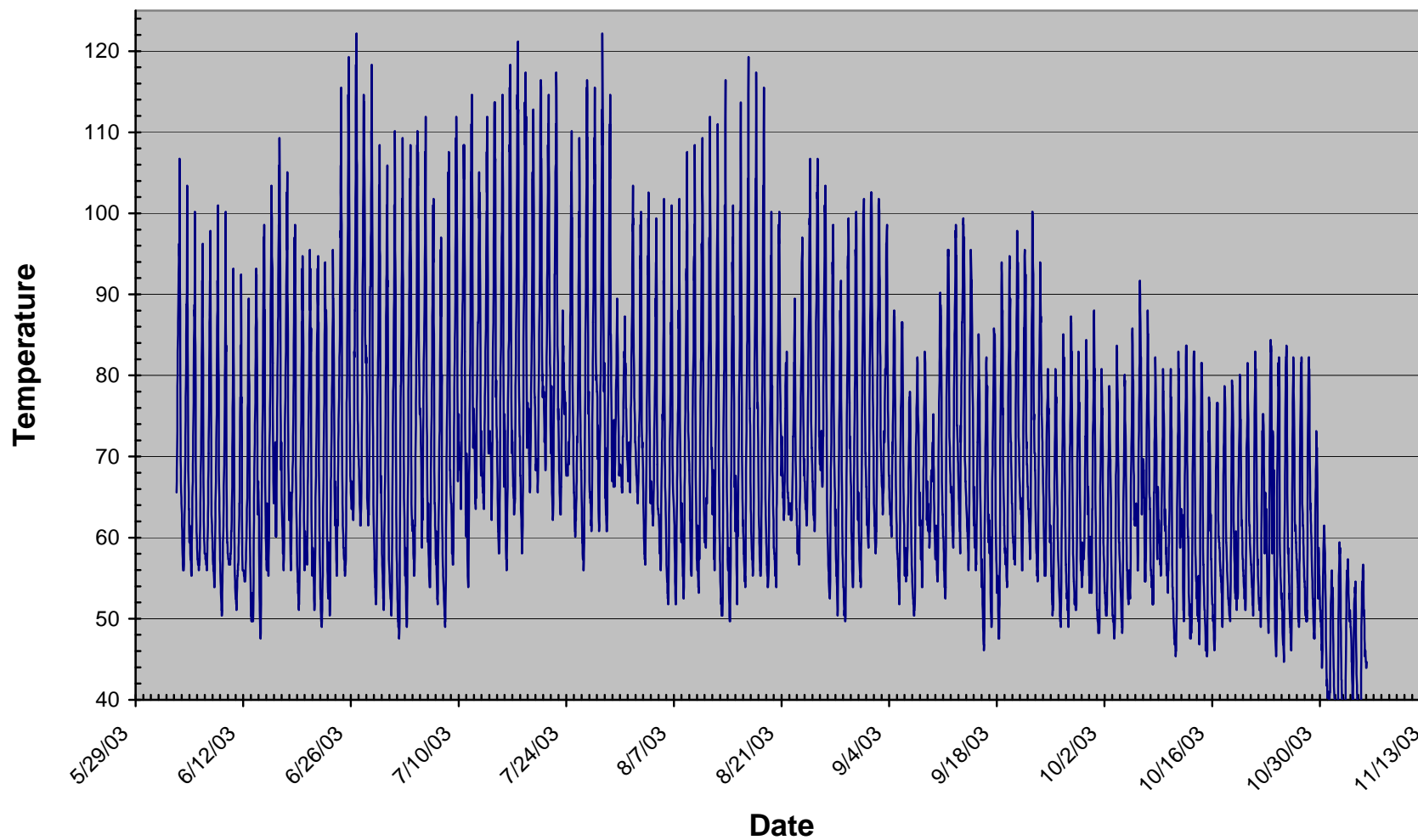


Figure SC-21. Monitoring Station Suisun Creek 13, 2003, air temperature collected at SC-6 near the Napa County line



### Suisun Creek 1 July - October 2005

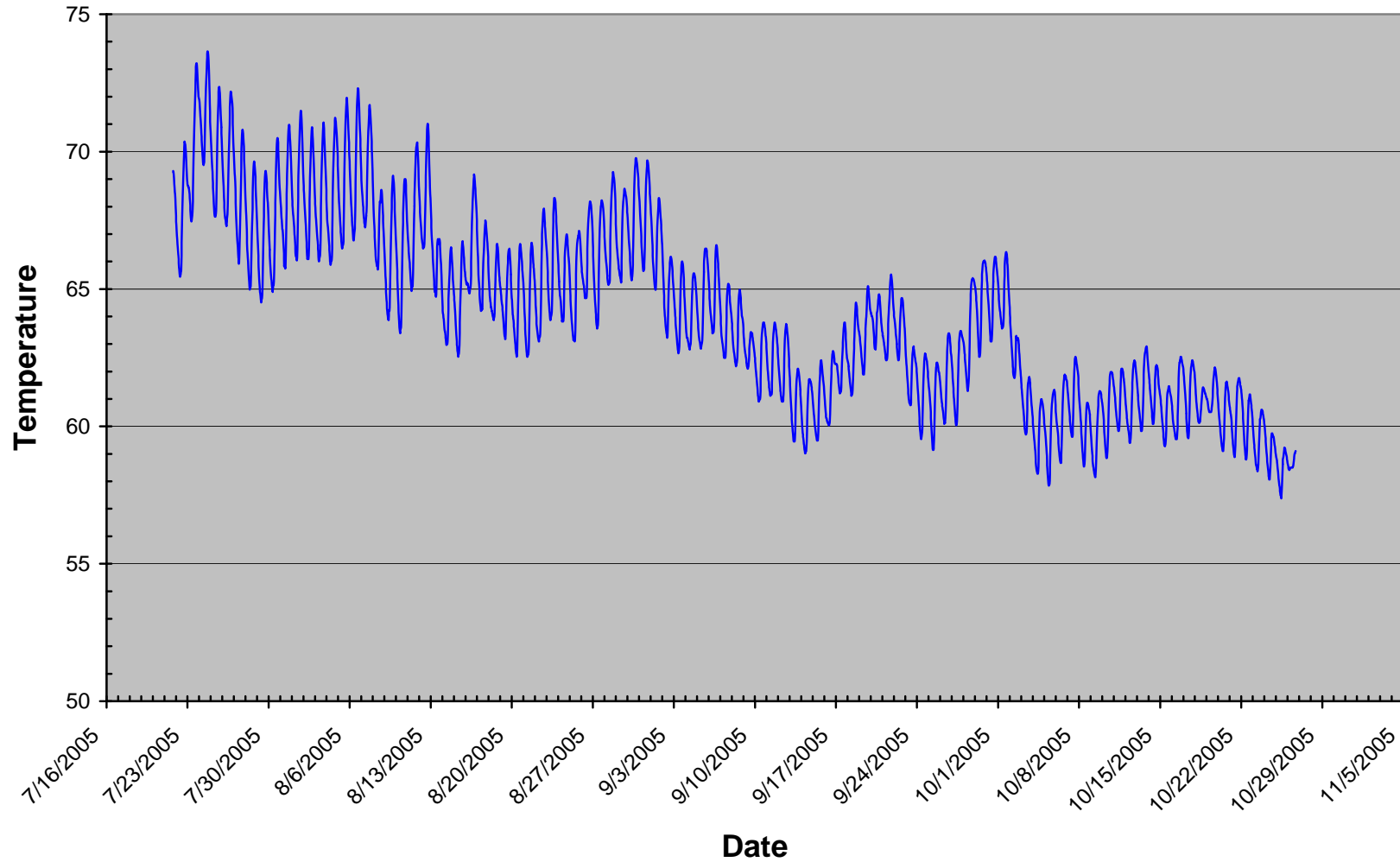


Figure SC-21. Monitoring Station Suisun Creek 1, 2005, water temperature.

### Suisun Creek 2 July - October 2005

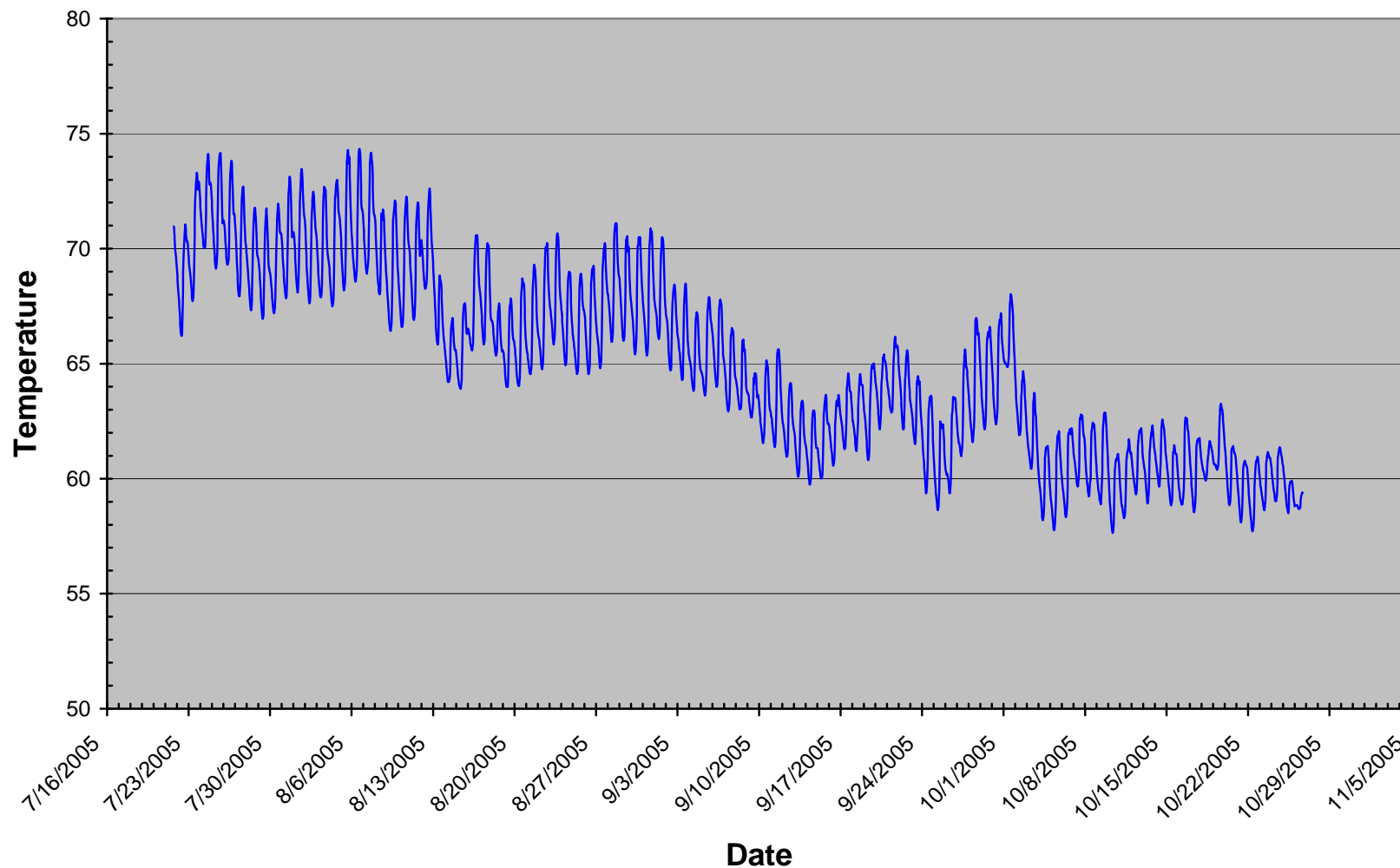


Figure SC-22. Monitoring Station Suisun Creek 2, 2005, water temperature.

### Suisun Creek 3 July - October 2005

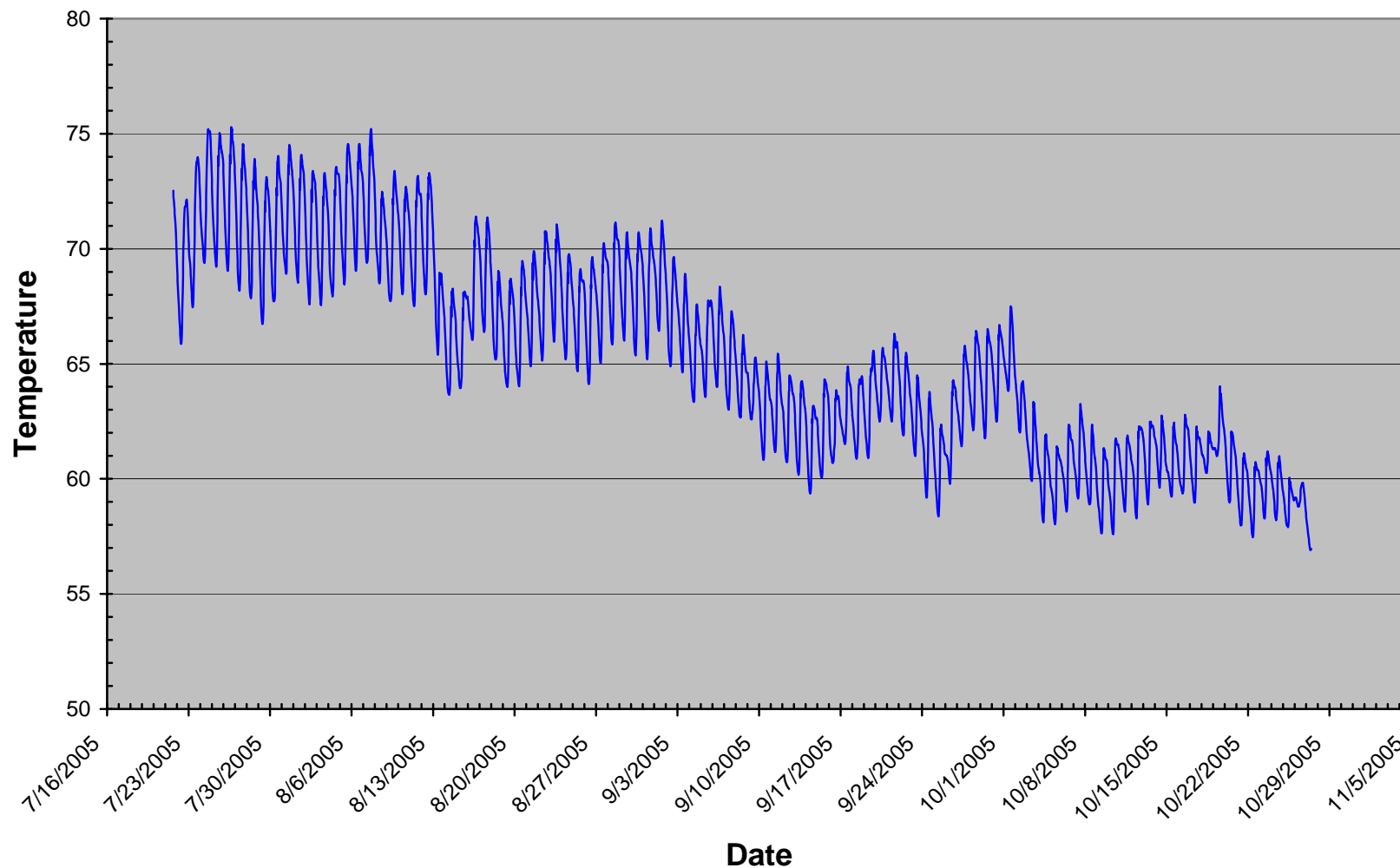


Figure SC-23. Monitoring Station Suisun Creek 3, 2005, water temperature.

### Suisun Creek 5.5 July - October 2005

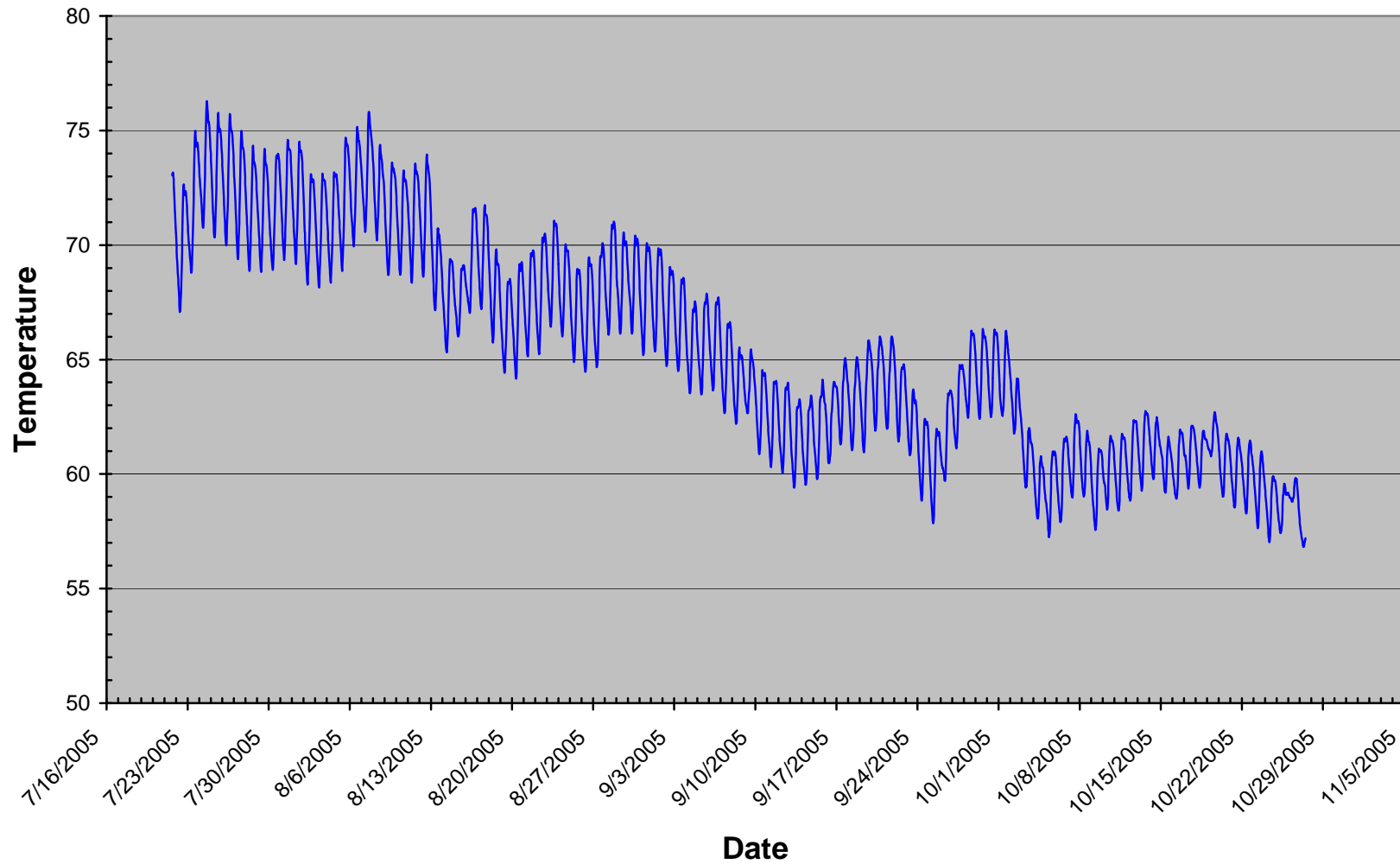


Figure SC-24. Monitoring Station Suisun Creek 5.5, 2005, water temperature.

### Suisun Creek 5.6 July - October 2005

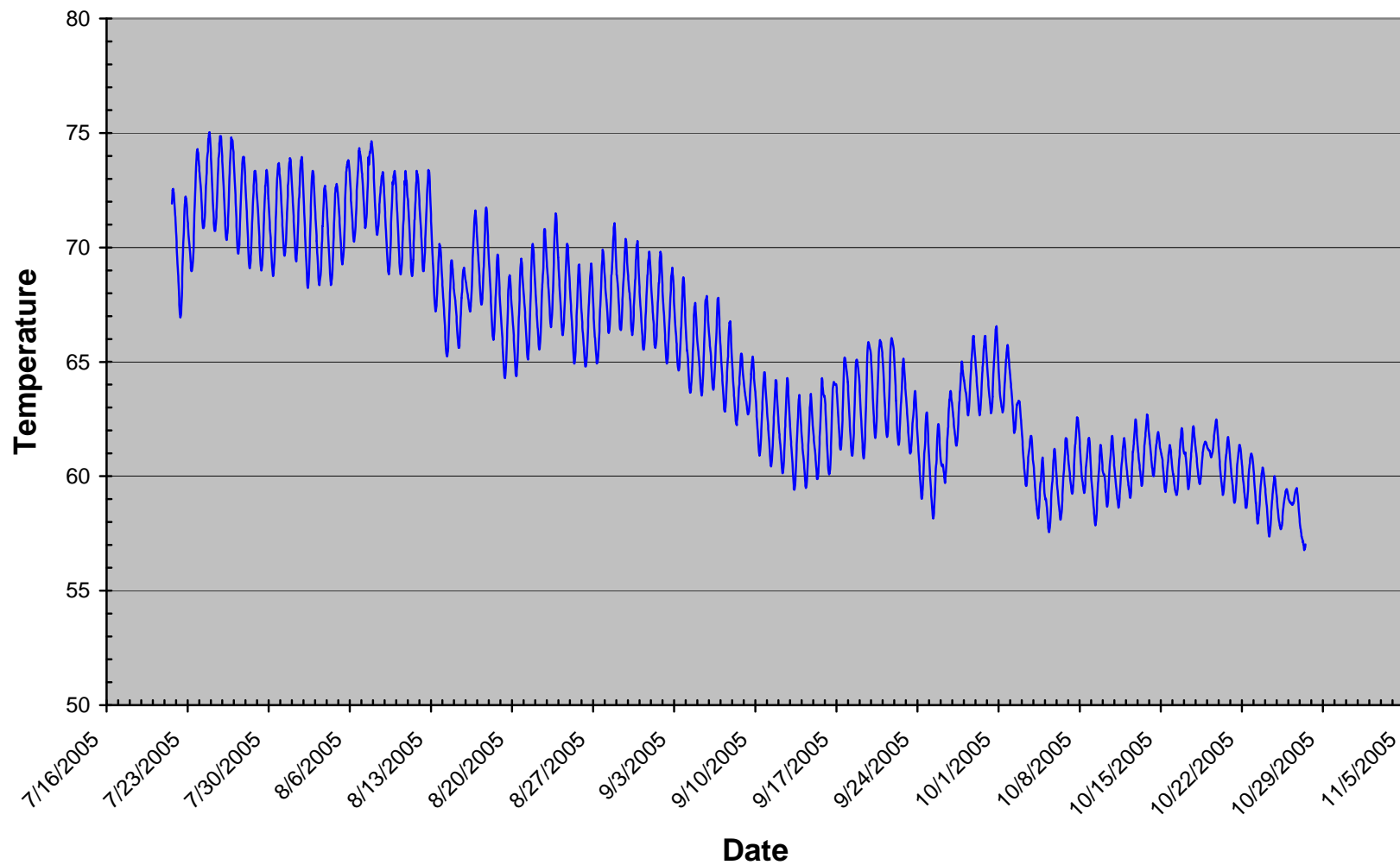


Figure SC-25. Monitoring Station Suisun Creek 5.6, 2005, water temperature.

### Suisun Creek 6 July - October 2005

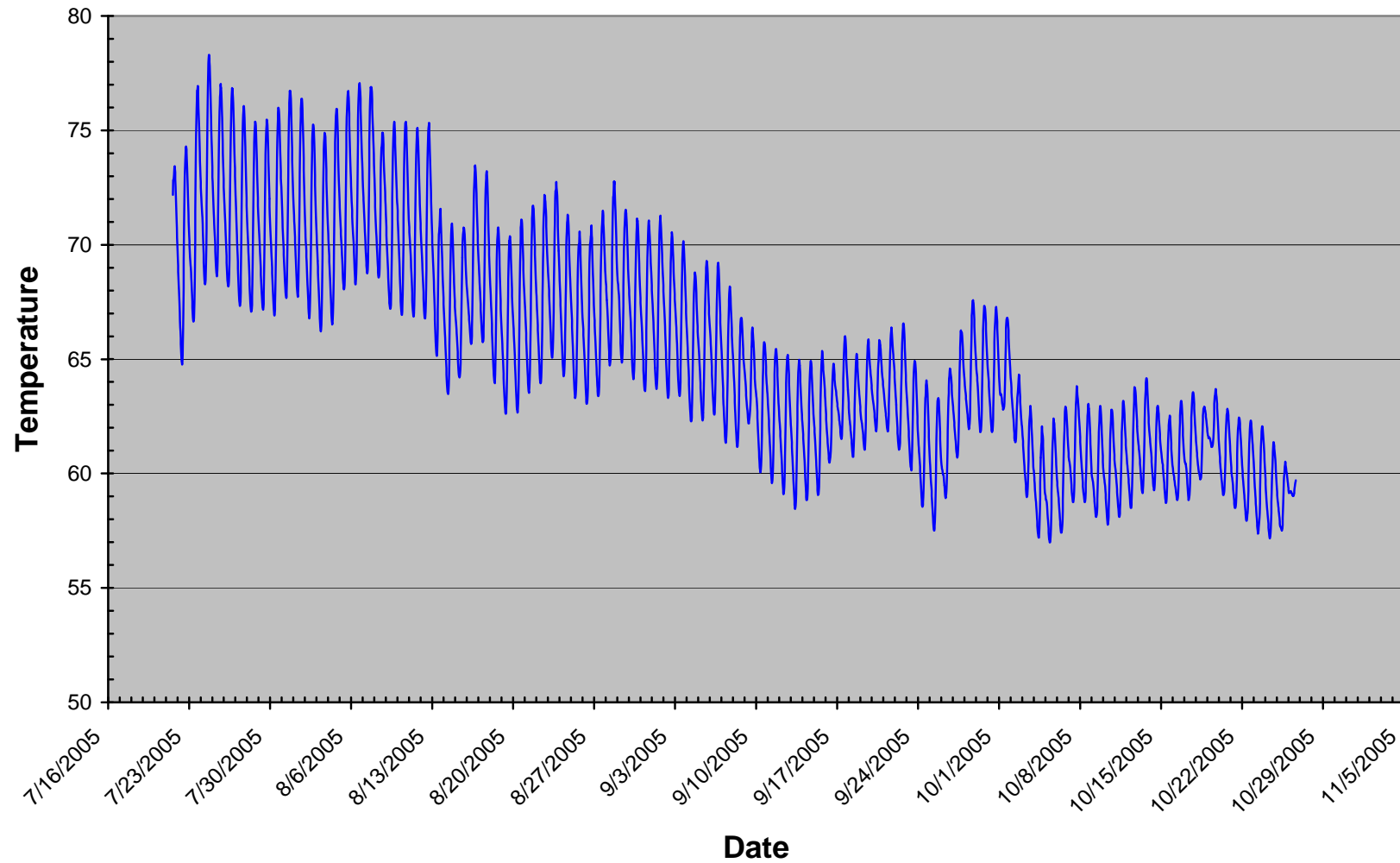


Figure SC-26. Monitoring Station Suisun Creek 6, 2005, water temperature.

### Suisun Creek 7 July - October 2005

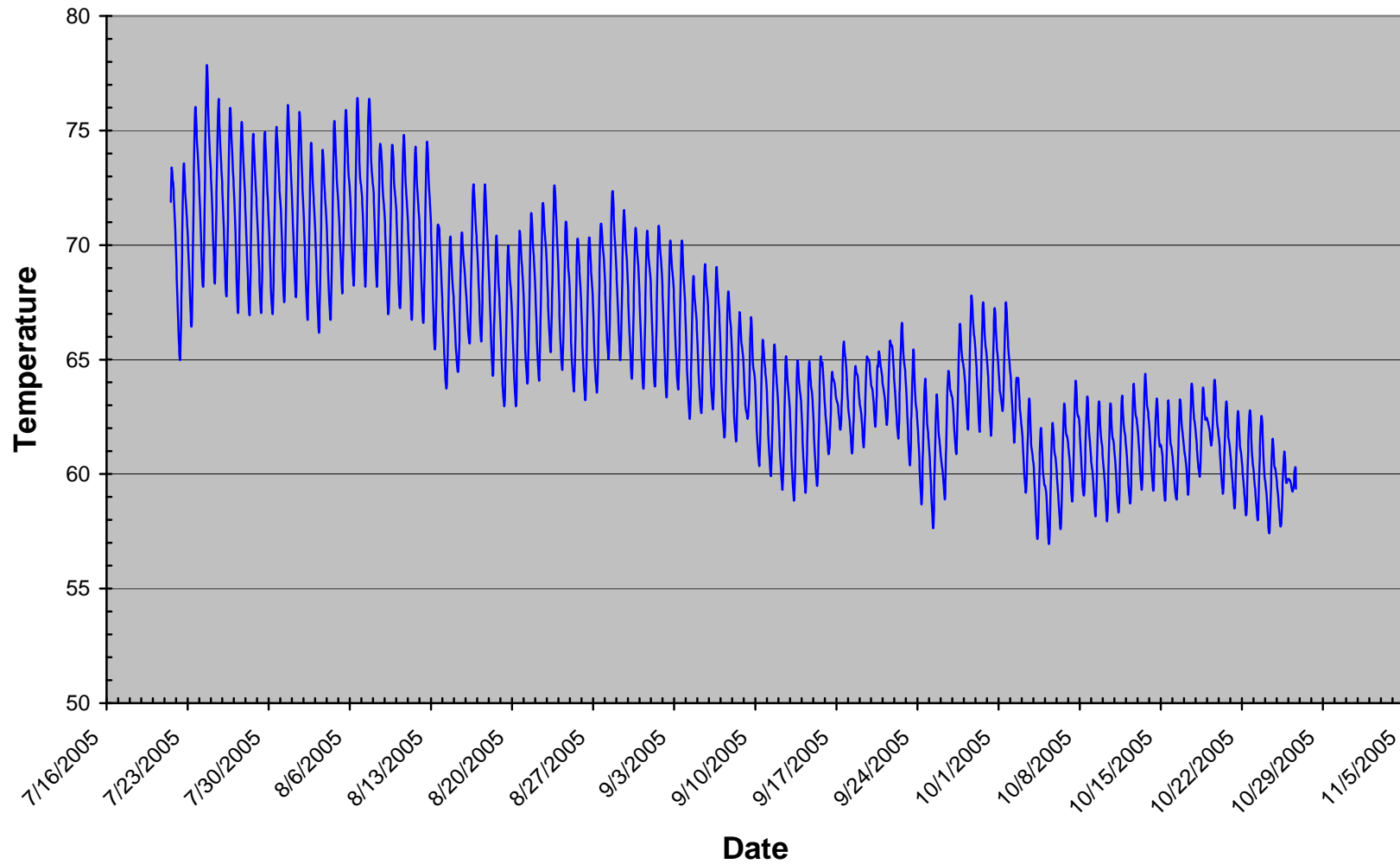


Figure SC-27. Monitoring Station Suisun Creek 7, 2005, water temperature.

### Suisun Creek 7.5 July - October 2005

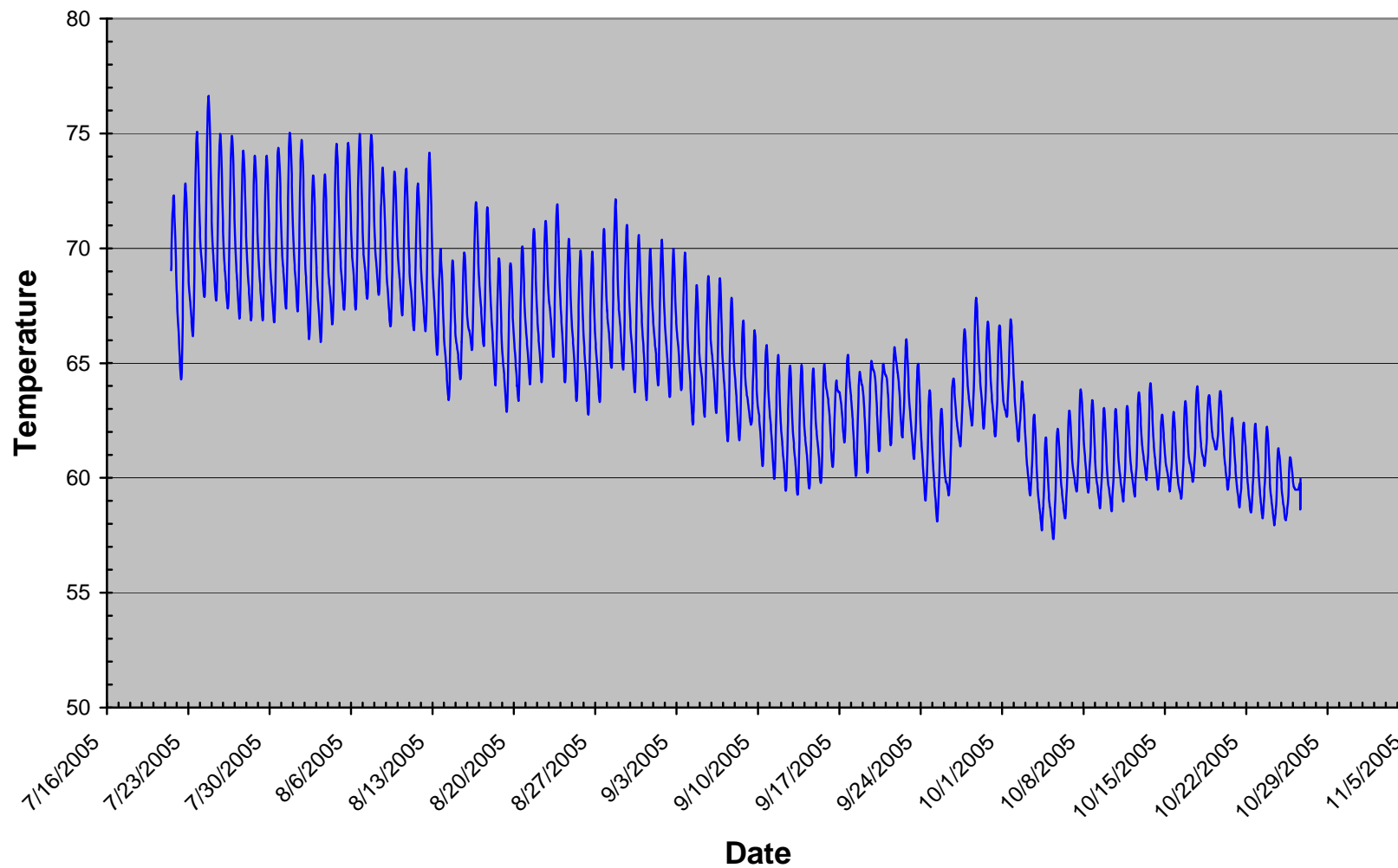


Figure SC-28. Monitoring Station Suisun Creek 7.5, 2005, water temperature.



### Suisun Creek 8 July - October 2005

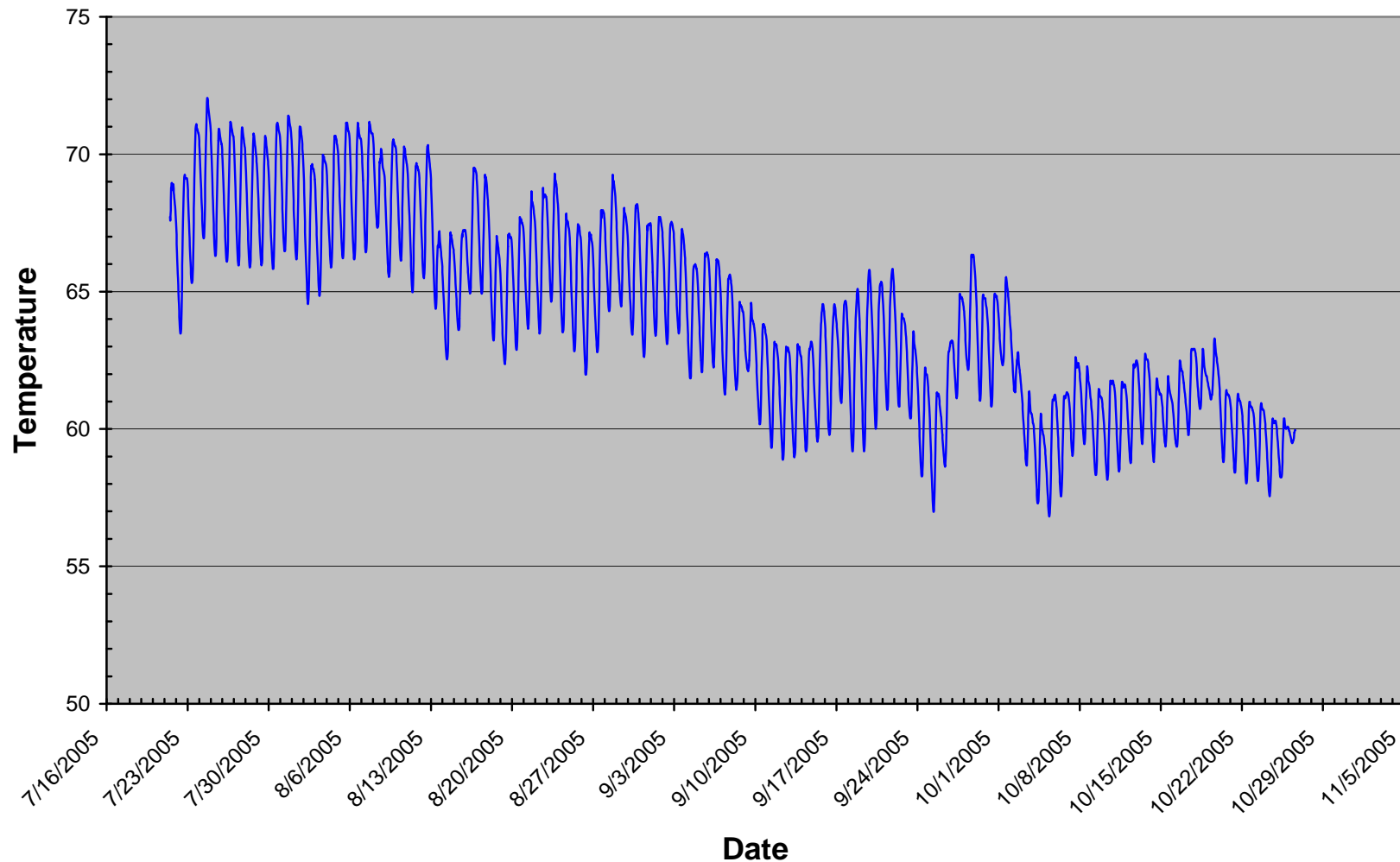


Figure SC-29. Monitoring Station Suisun Creek 8, 2005, water temperature.

### Suisun Creek 9 July - October 2005

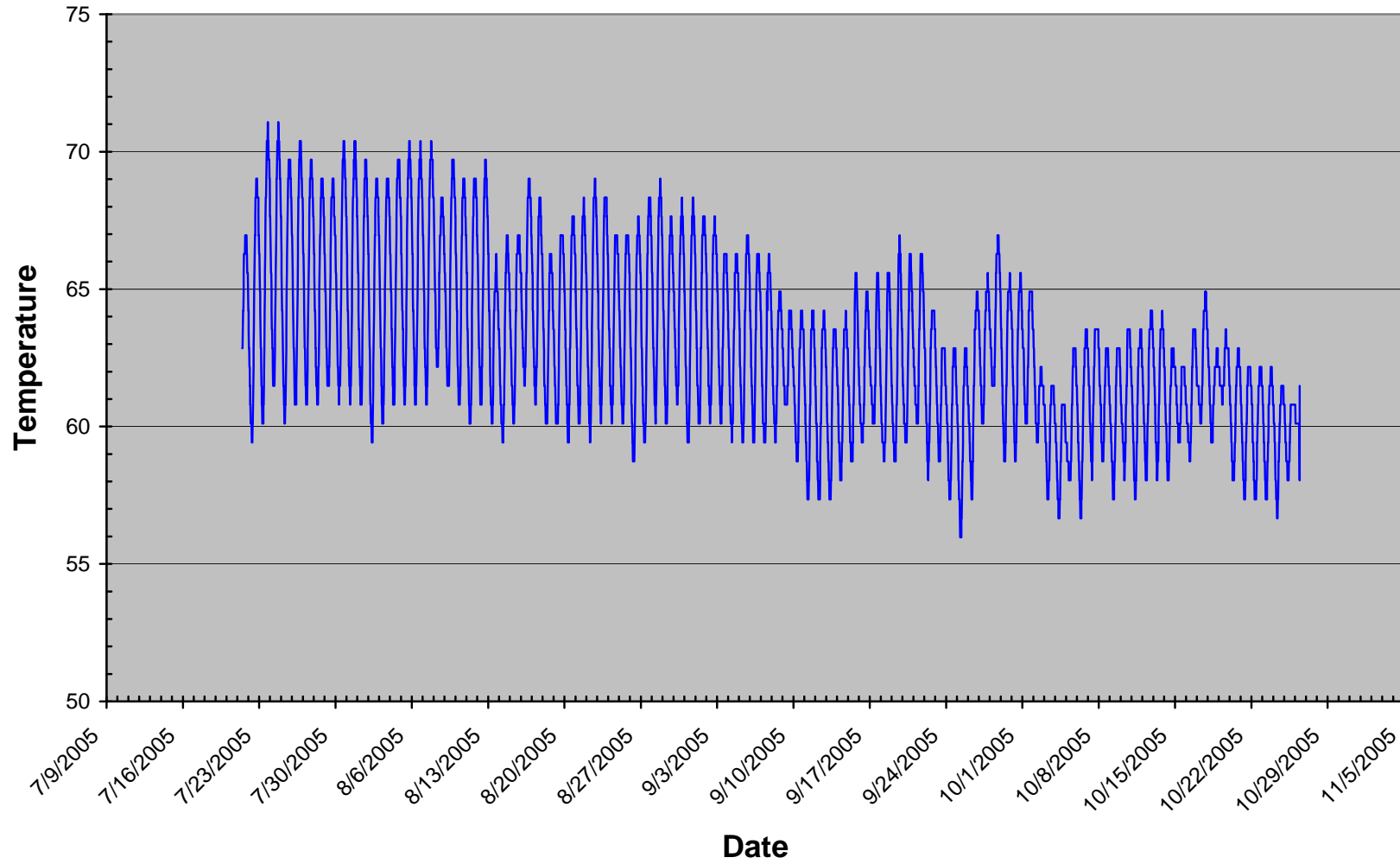


Figure SC-30. Monitoring Station Suisun Creek 9, 2005, water temperature.

### Suisun Creek 10 July - October 2005

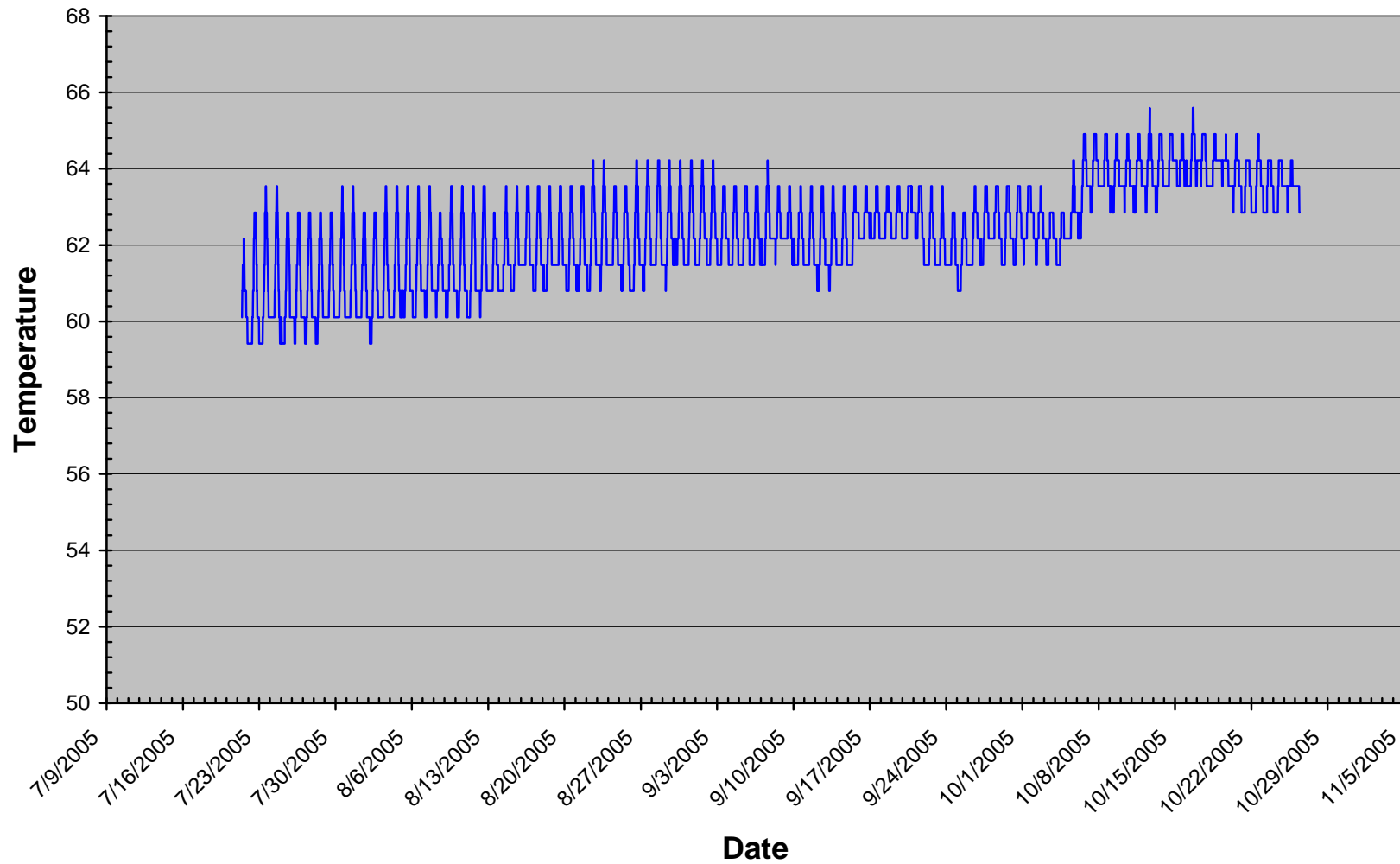


Figure SC-31. Monitoring Station Suisun Creek 10, 2005, water temperature.

### Suisun Creek 13 Air Temperature 2005

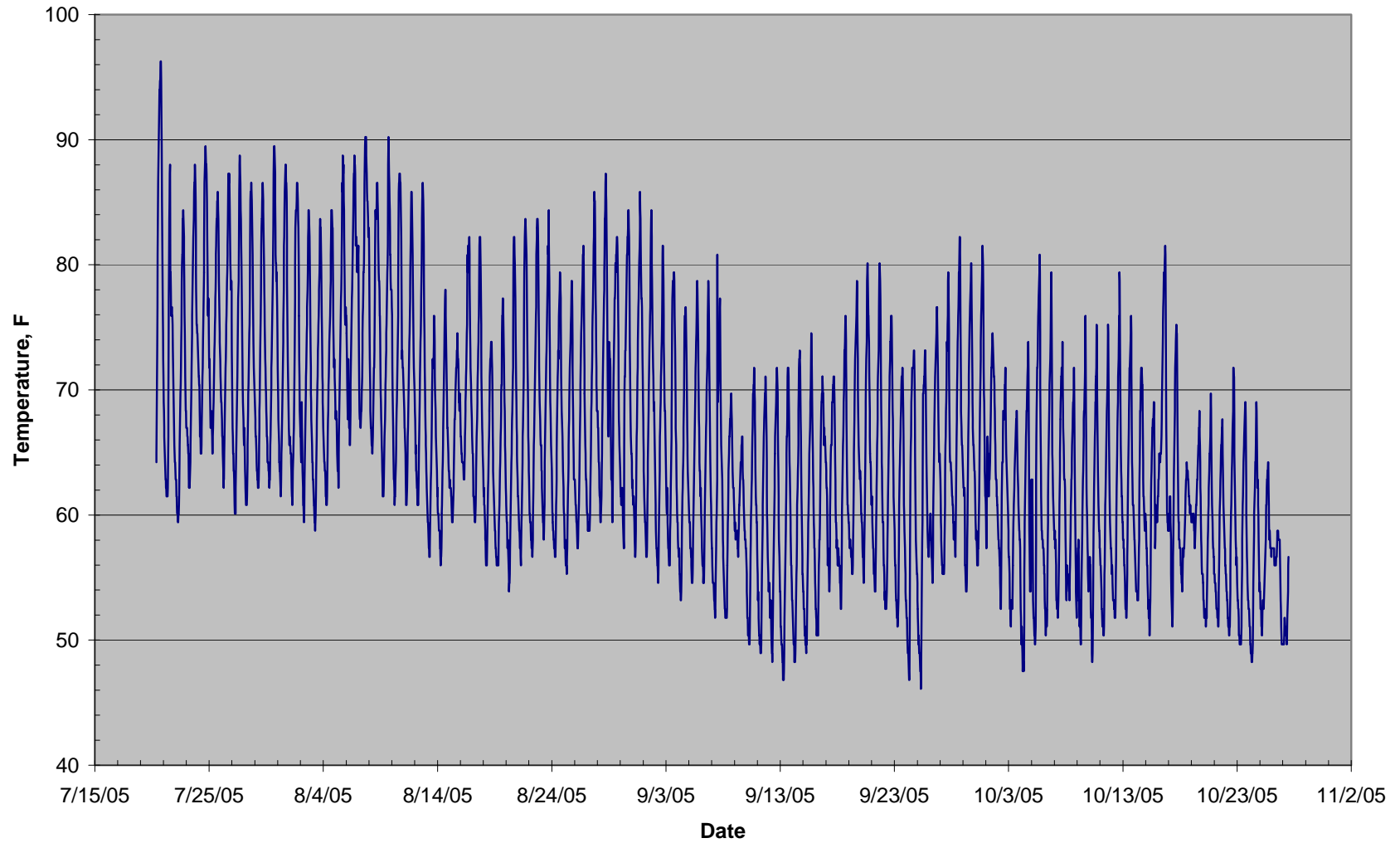


Figure SC-32. Monitoring Station Suisun Creek 13, 2005, air temperature recorded at the location of SC-6.

### Suisun Creek 1 June - October 2006

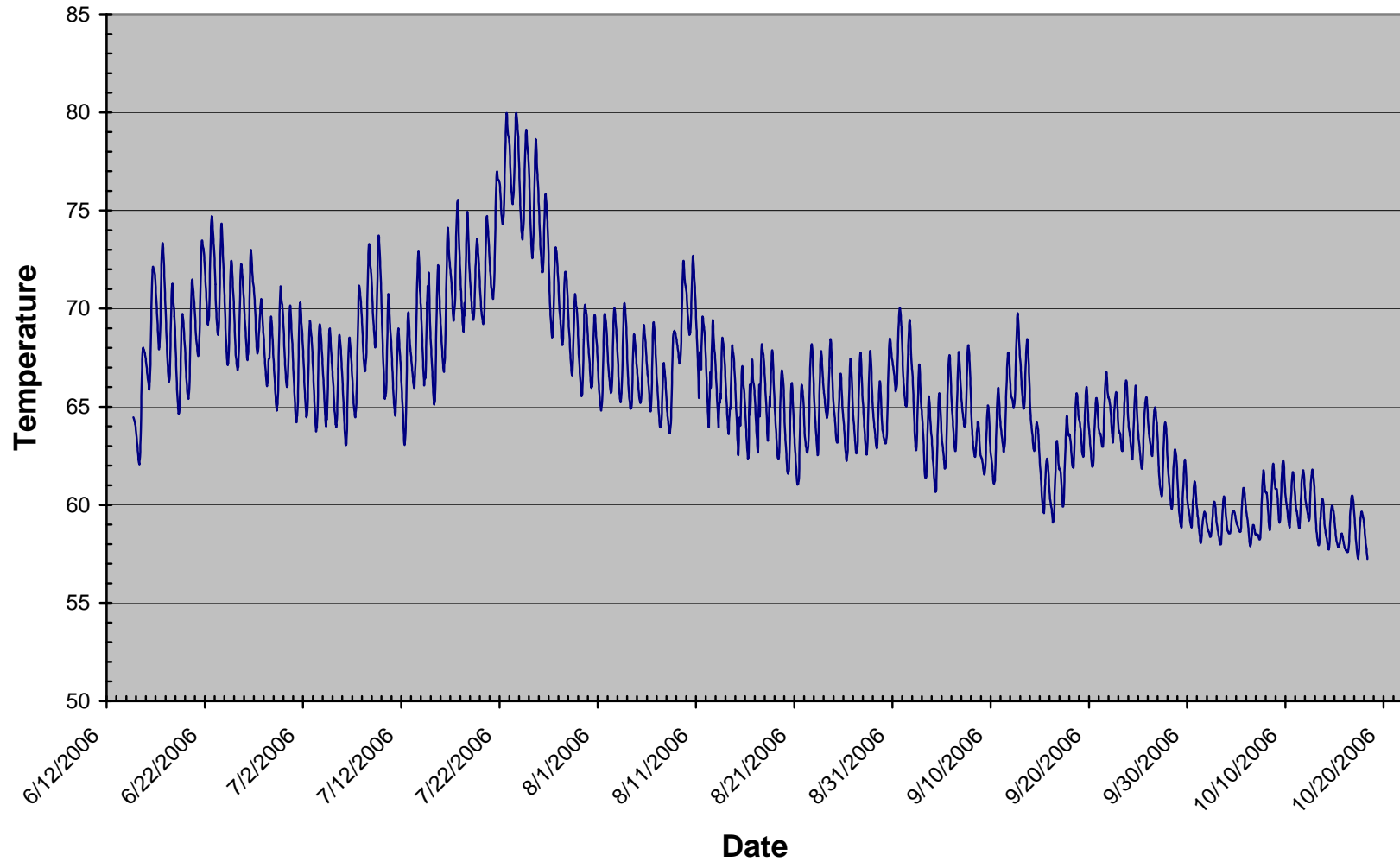


Figure SC-33. Monitoring Station Suisun Creek 1, 2006, water temperature.

### Suisun Creek 2 June - October 2006

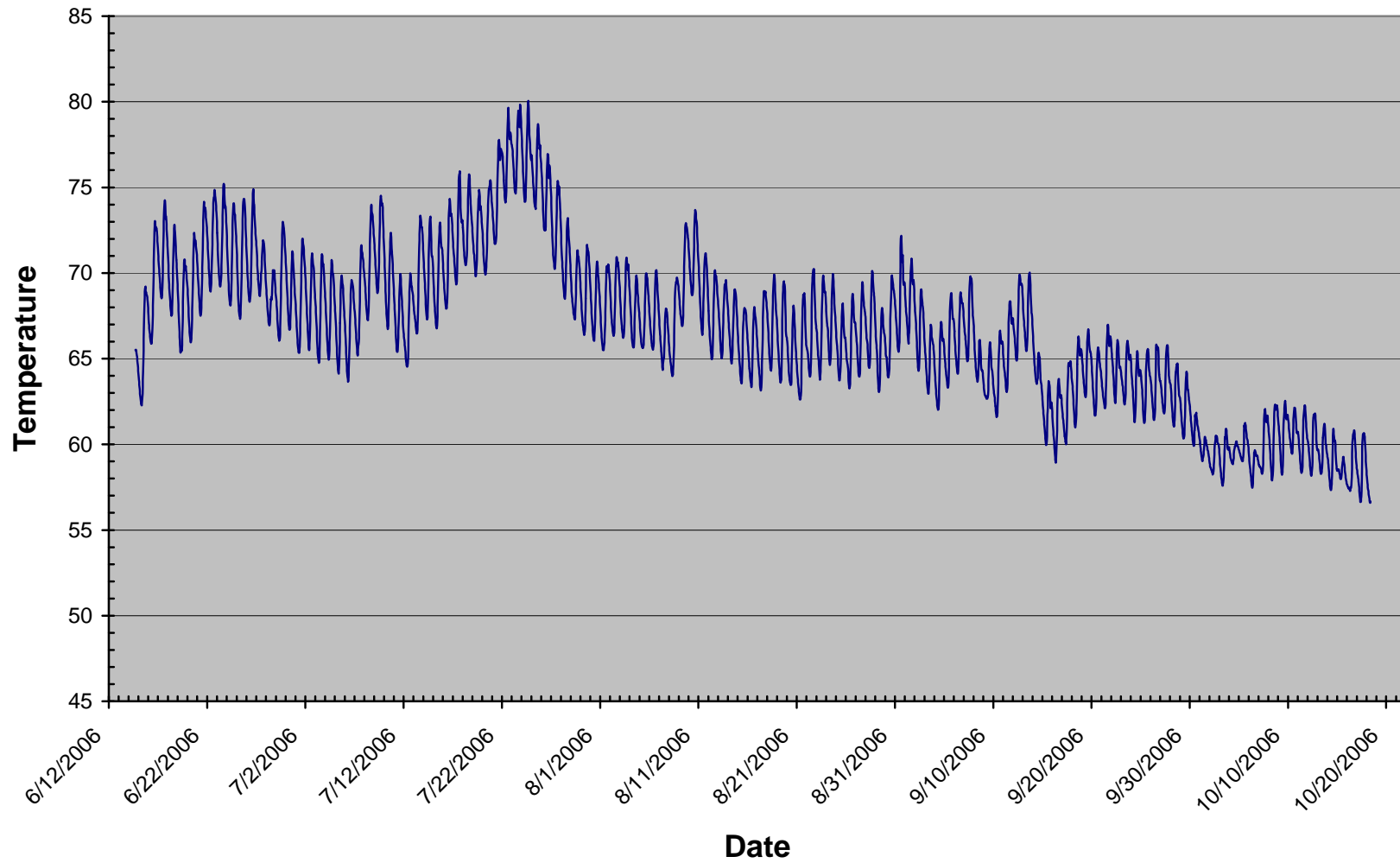


Figure SC-34. Monitoring Station Suisun Creek 2, 2006, water temperature.

### Suisun Creek 3 June - October 2006

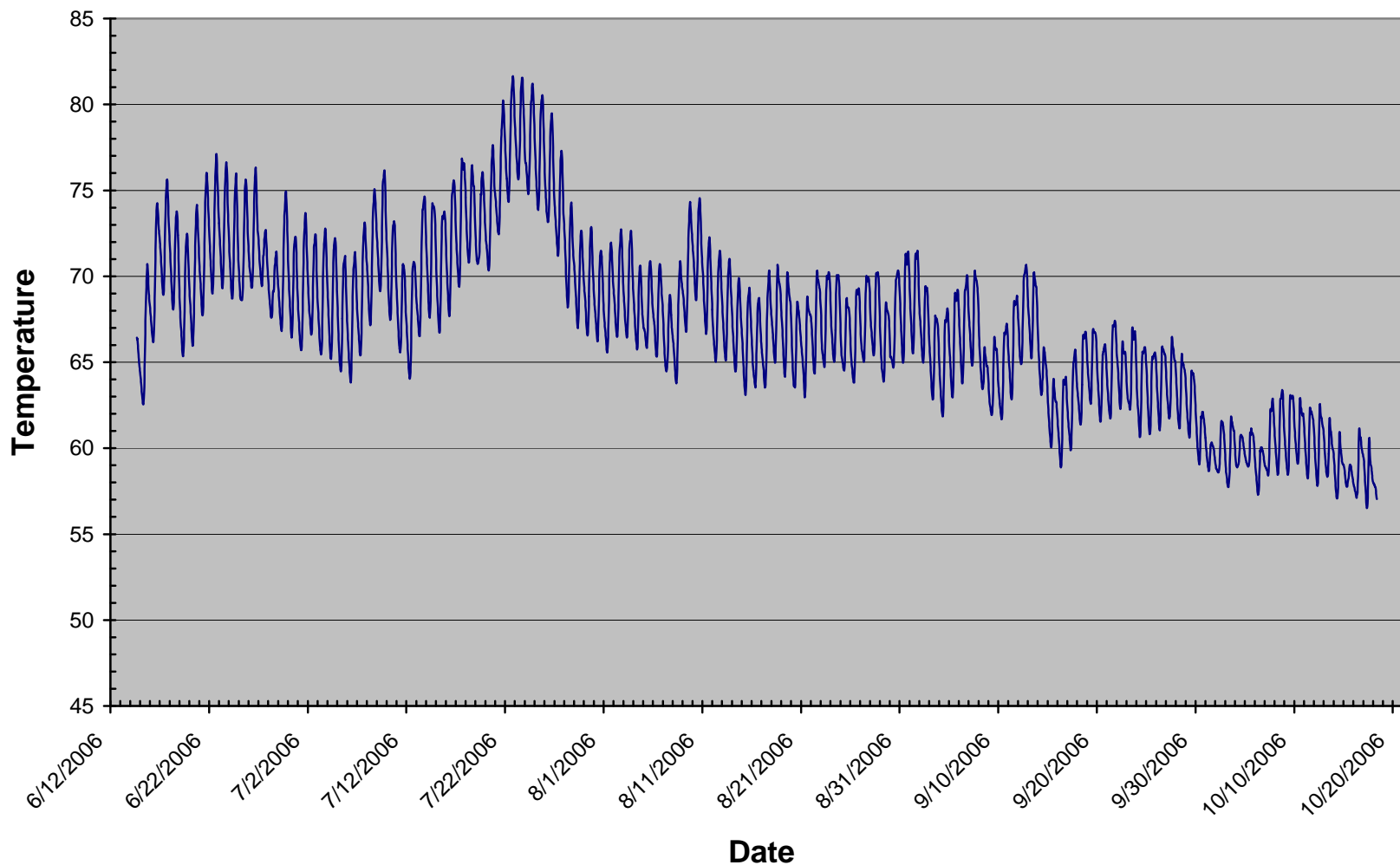


Figure SC-35. Monitoring Station Suisun Creek 3, 2006, water temperature.

### Suisun Creek 4 June - October 2006

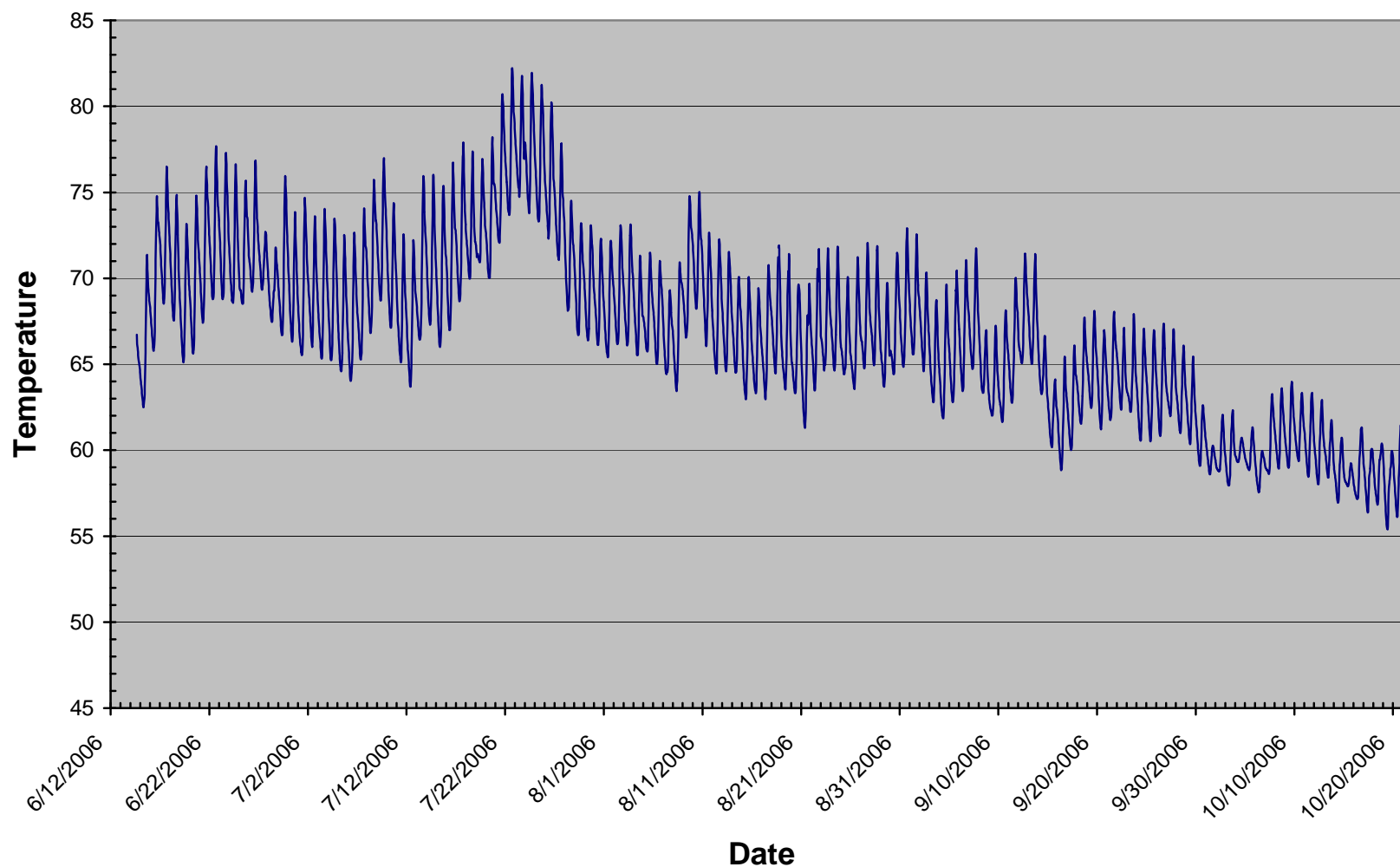


Figure SC-36. Monitoring Station Suisun Creek 4, 2006, water temperature.



### Suisun Creek 4.5 June - October 2006

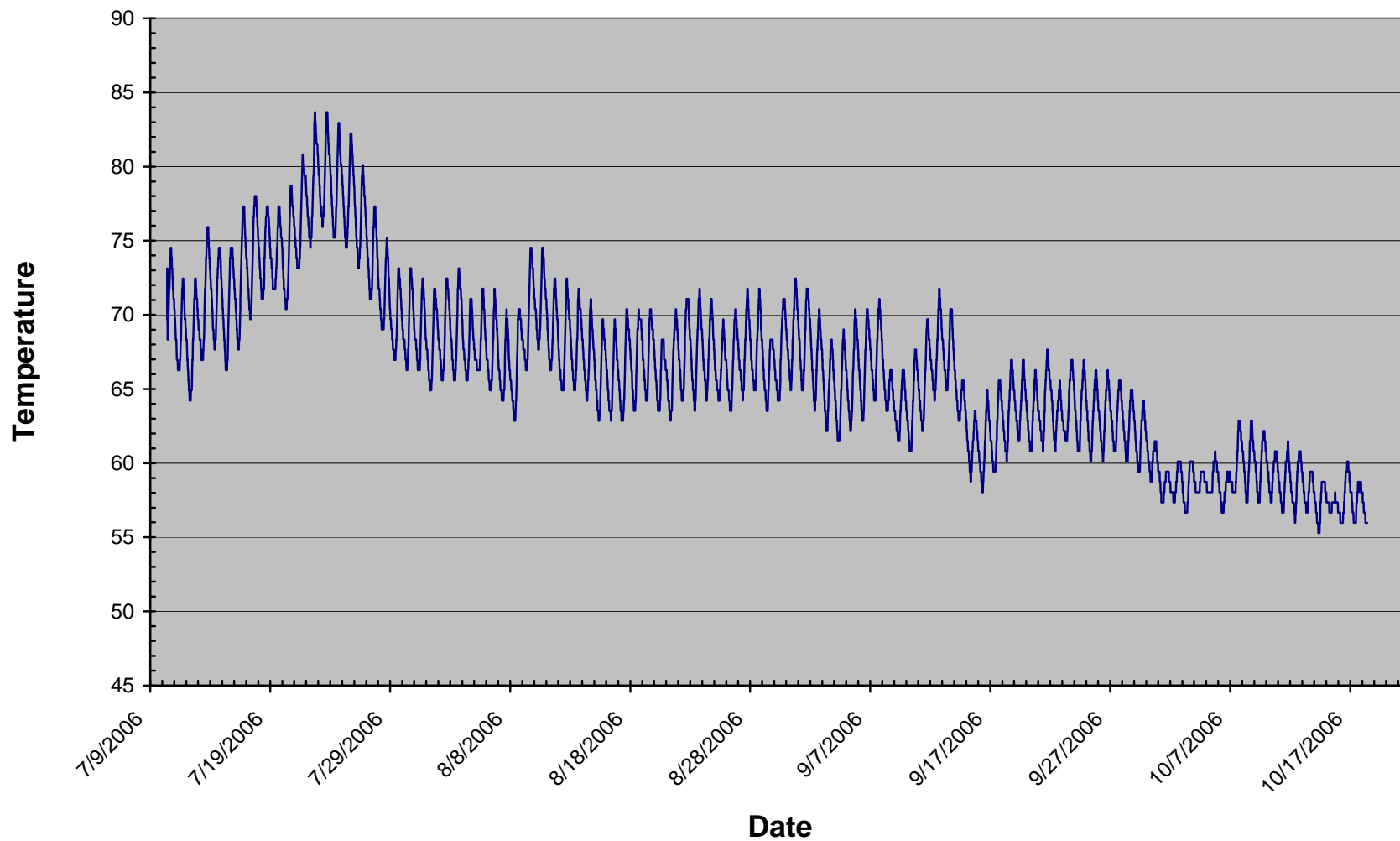


Figure SC-37. Monitoring Station Suisun Creek 4.5, 2006, water temperature.

### Suisun Creek 4.6 July - October 2006

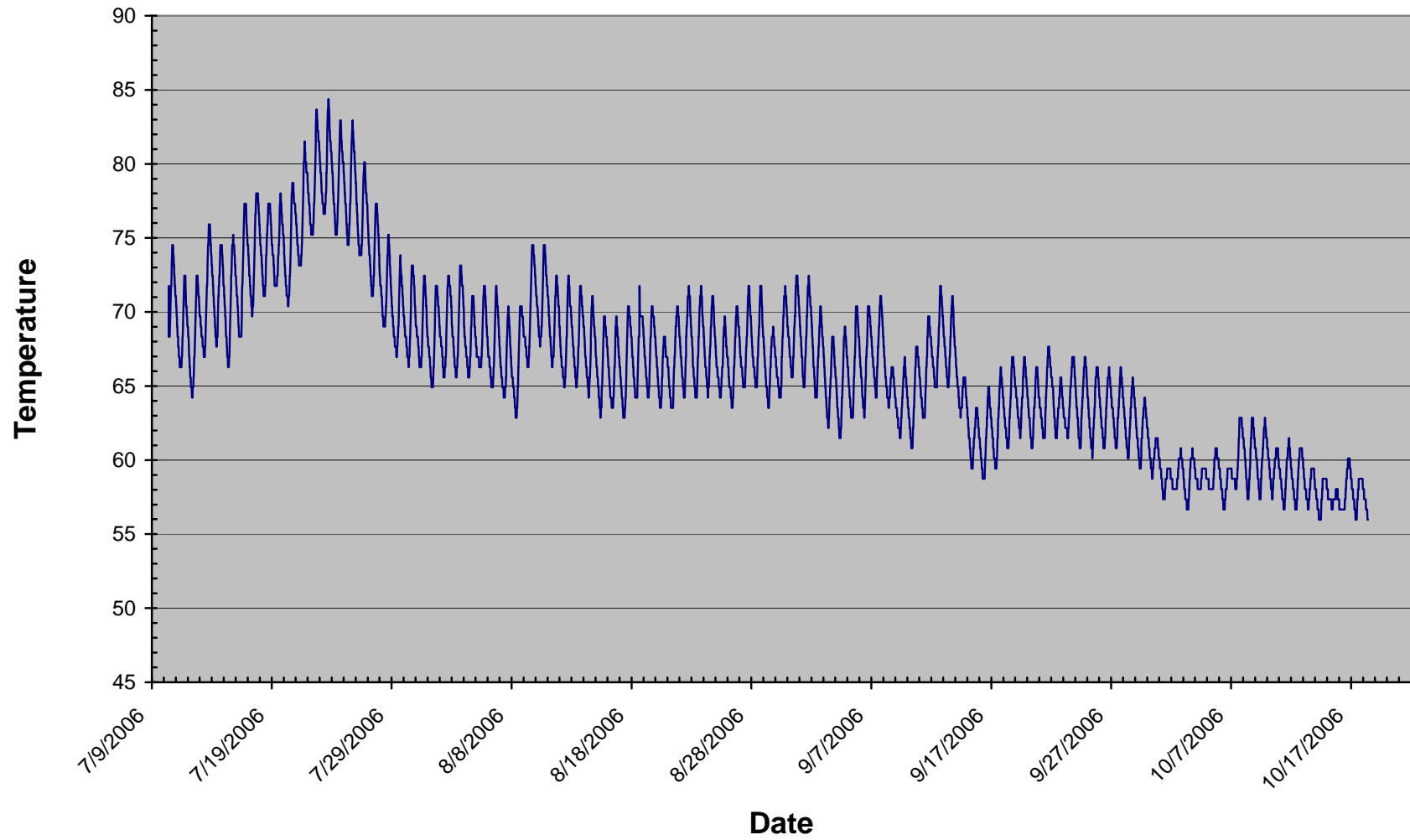


Figure SC-38. Monitoring Station Suisun Creek 4.6, 2006, water temperature.

### Suisun Creek 5.5 June - October 2006

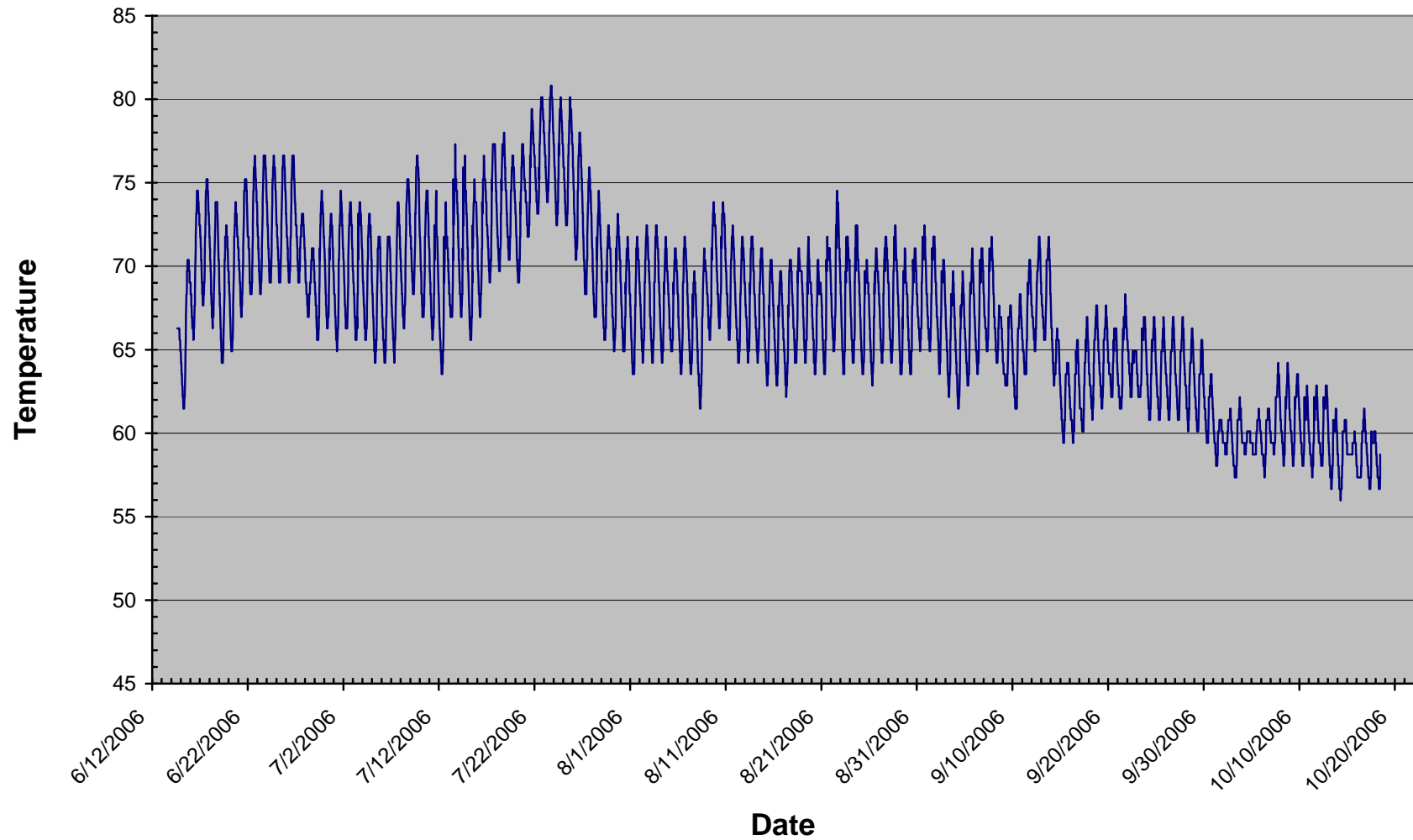


Figure SC-39. Monitoring Station Suisun Creek 5.5, 2006, water temperature.

### Suisun Creek 5.6 June - October 2006

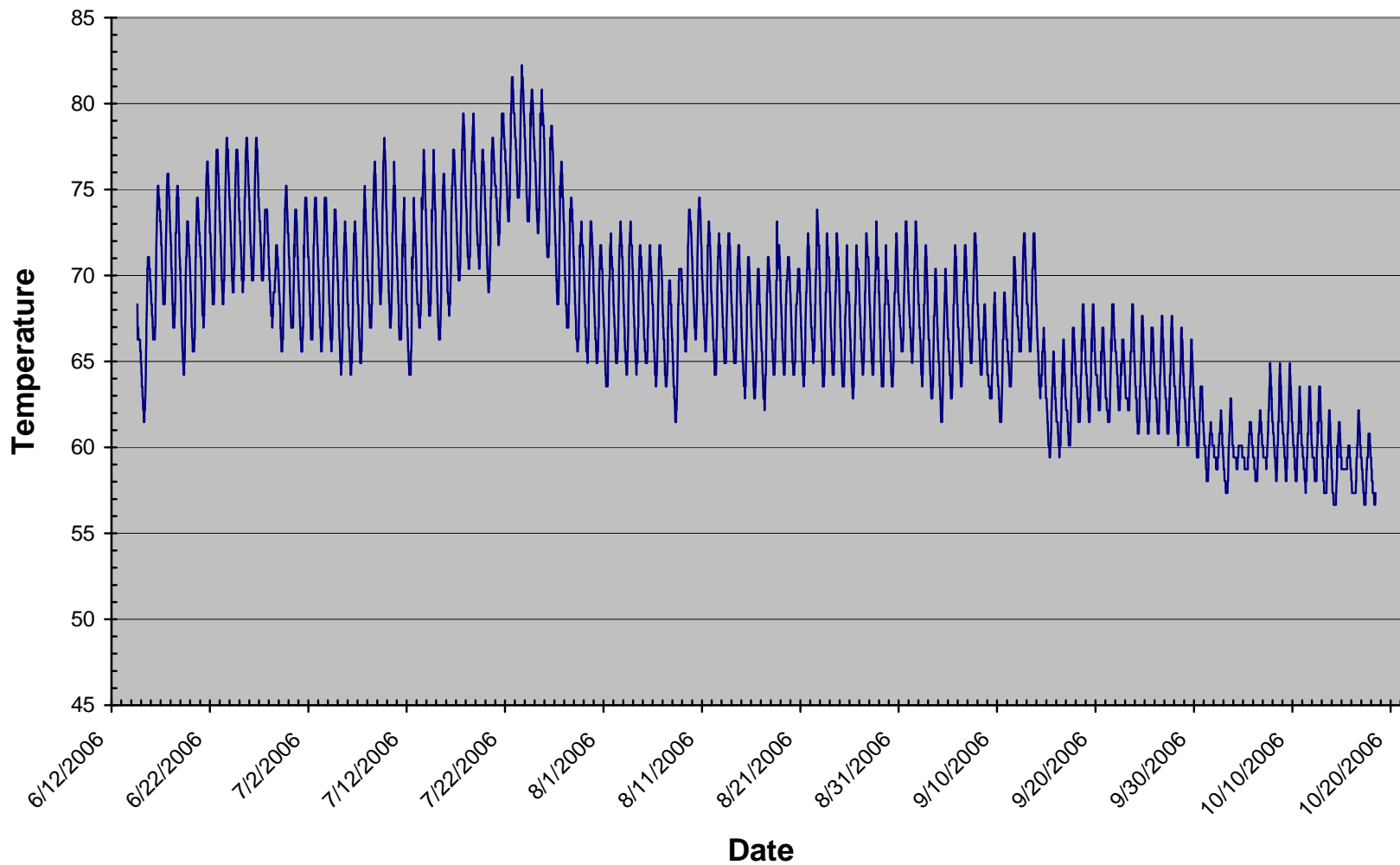


Figure SC-40. Monitoring Station Suisun Creek 5.6, 2006, water temperature.

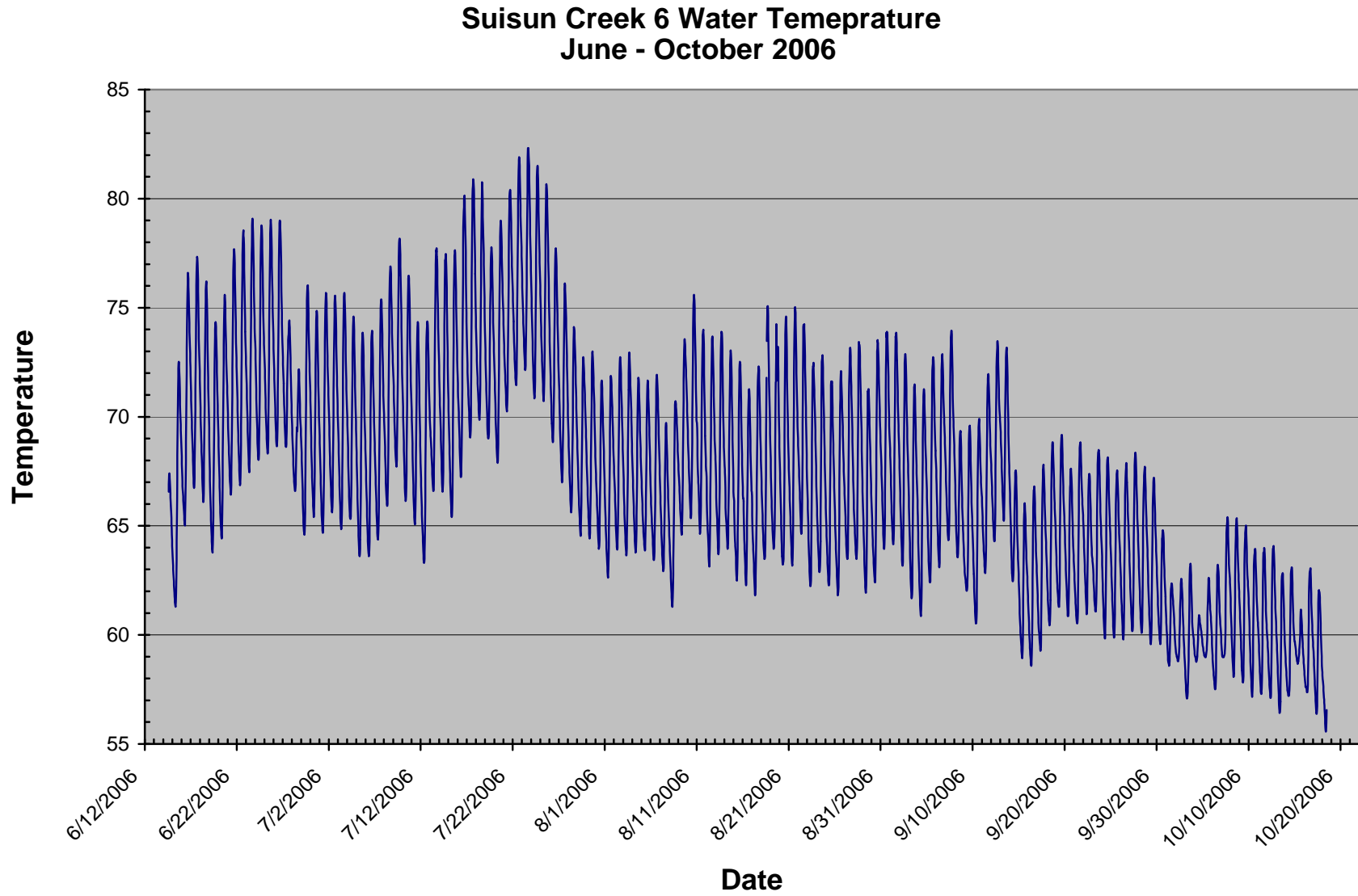


Figure SC-41. Monitoring Station Suisun Creek 6, 2006, water temperature.

### Suisun Creek 7 June - October 2006

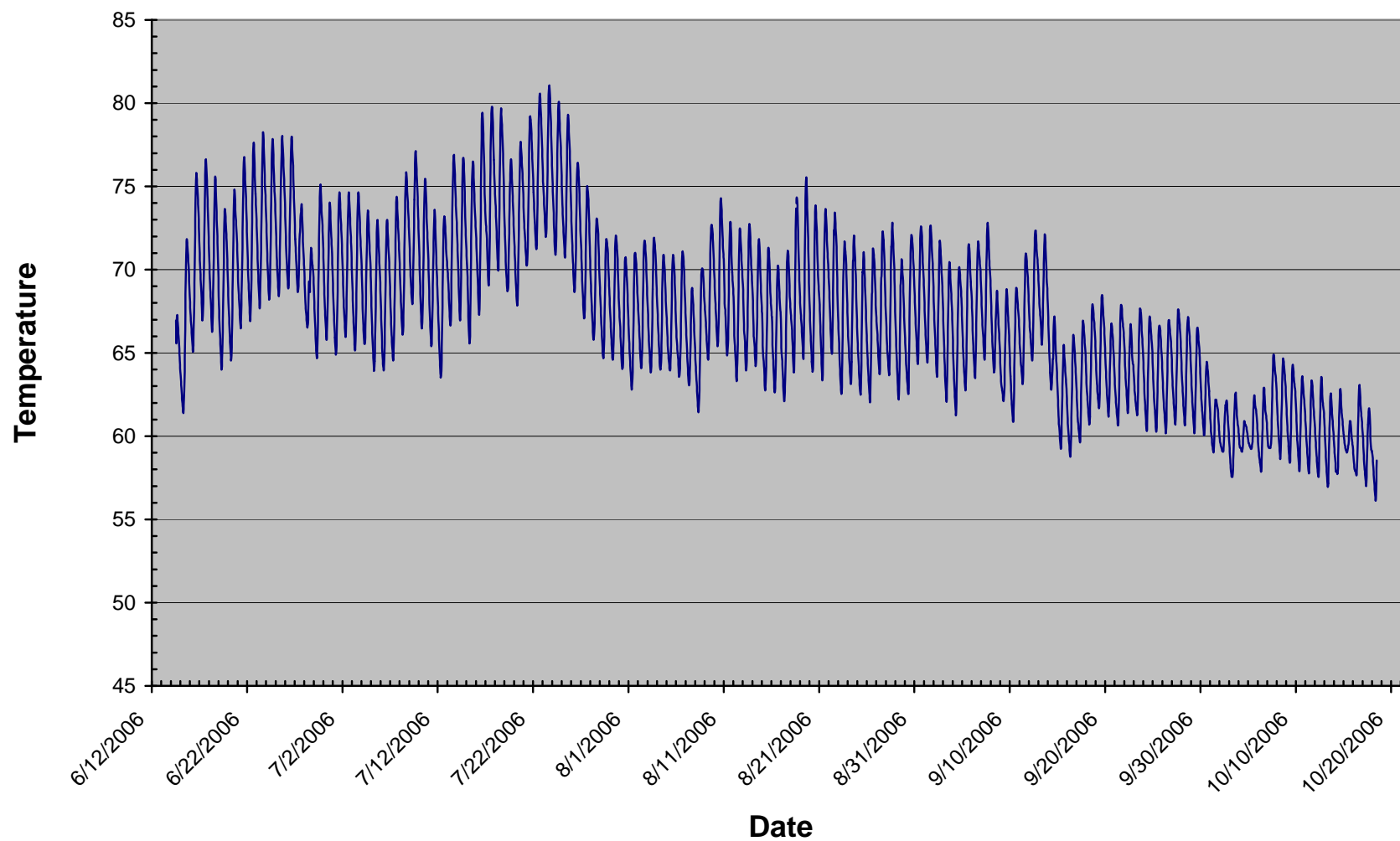


Figure SC-42. Monitoring Station Suisun Creek 7, 2006, water temperature.

### Suisun Creek 7.5 June - October 2006

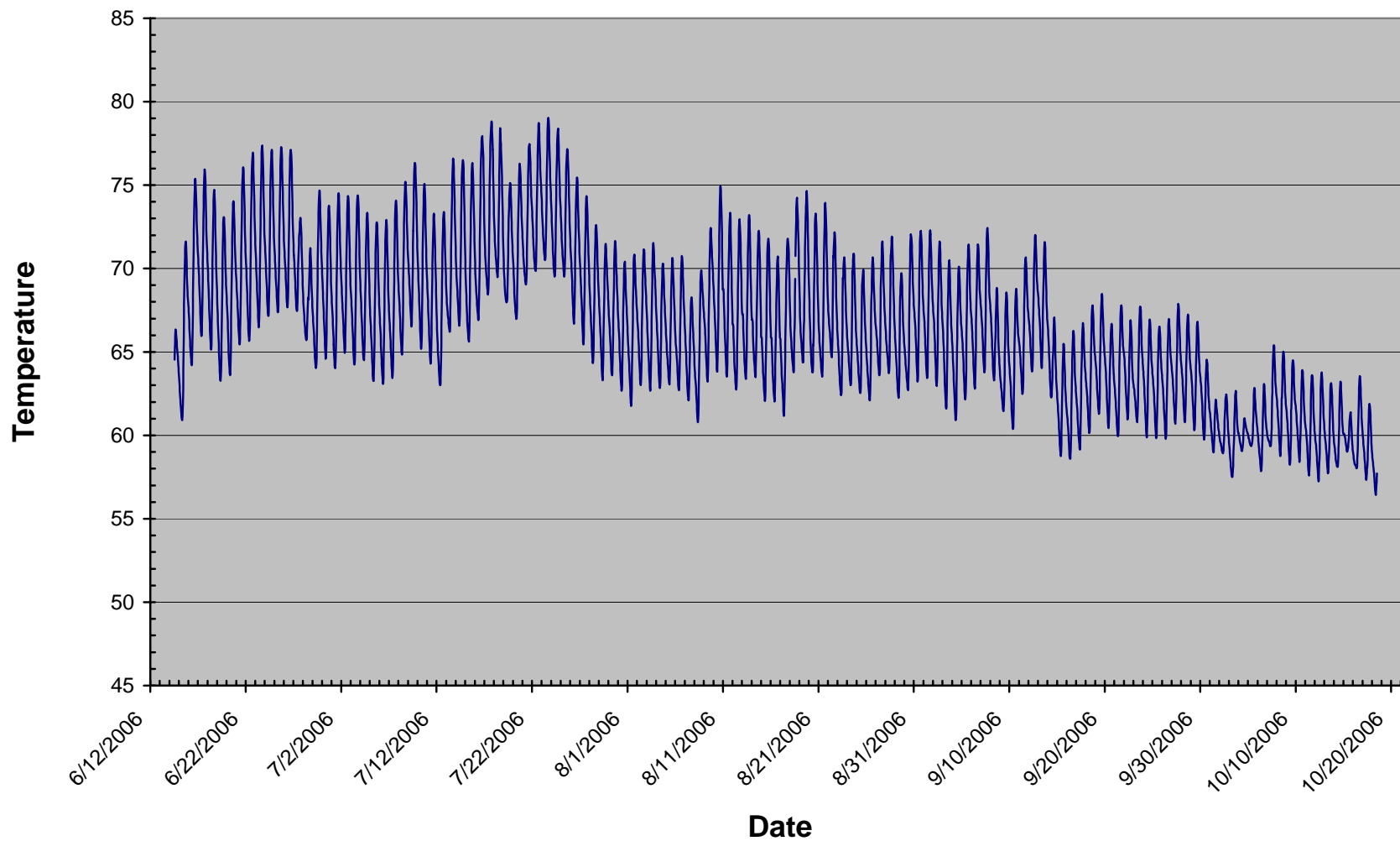


Figure SC-43. Monitoring Station Suisun Creek 7.5, 2006, water temperature.

### Suisun Creek 8 June - October 2006

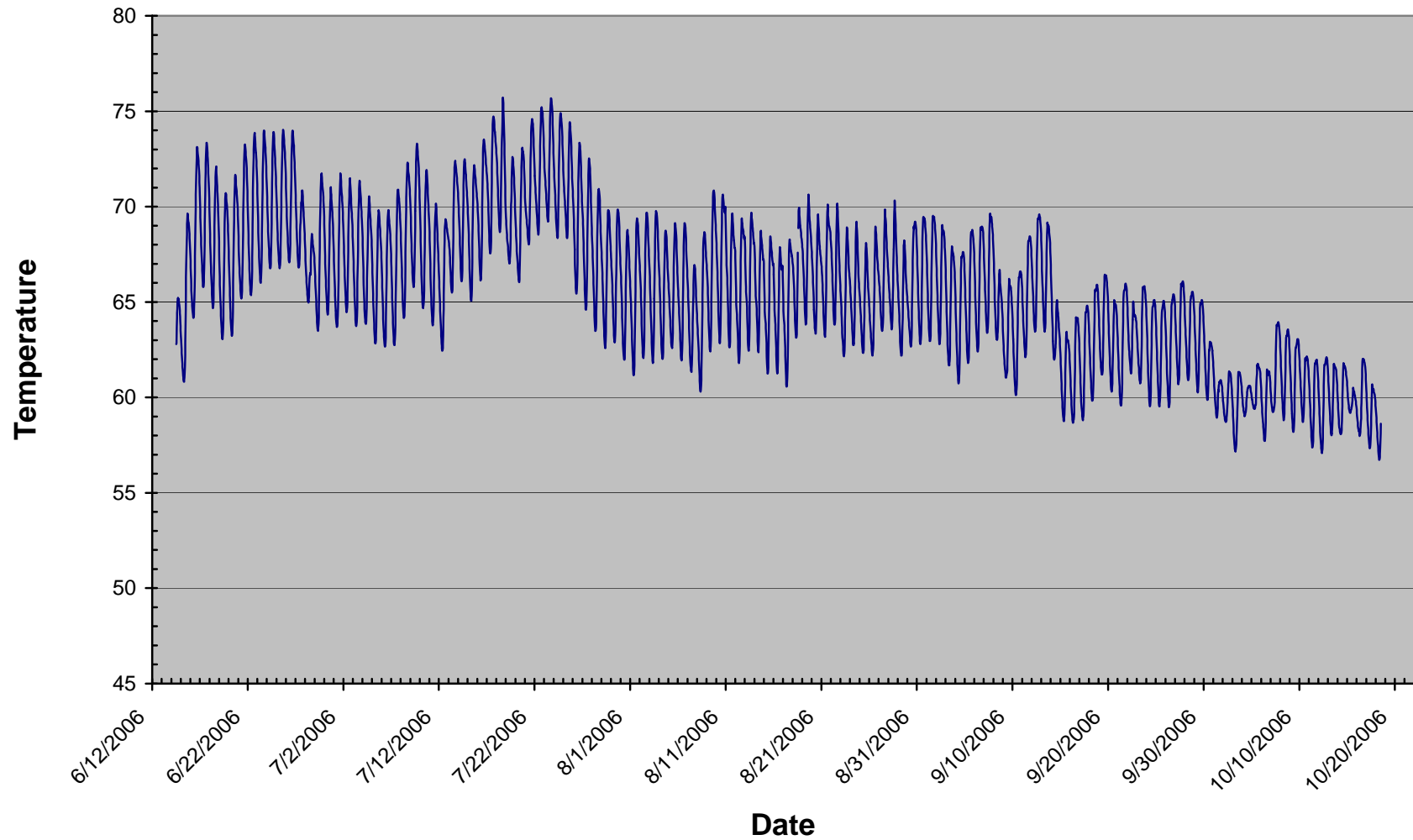


Figure SC-44. Monitoring Station Suisun Creek 8, 2006, water temperature.



### Suisun Creek 8.6 June - October 2006

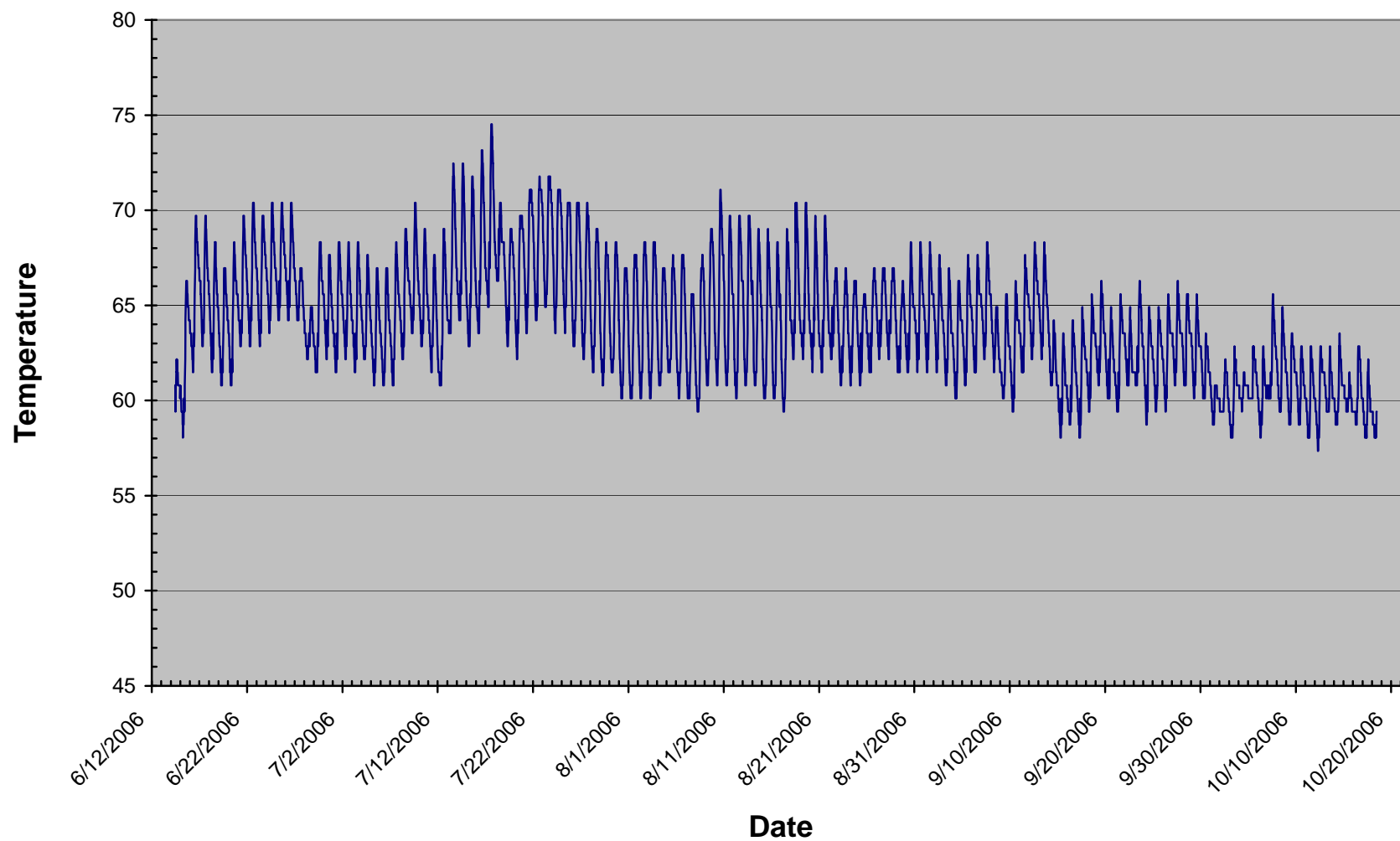


Figure SC-45. Monitoring Station Suisun Creek 8.6, 2006, water temperature.

### Suisun Creek 9 June - October 2006

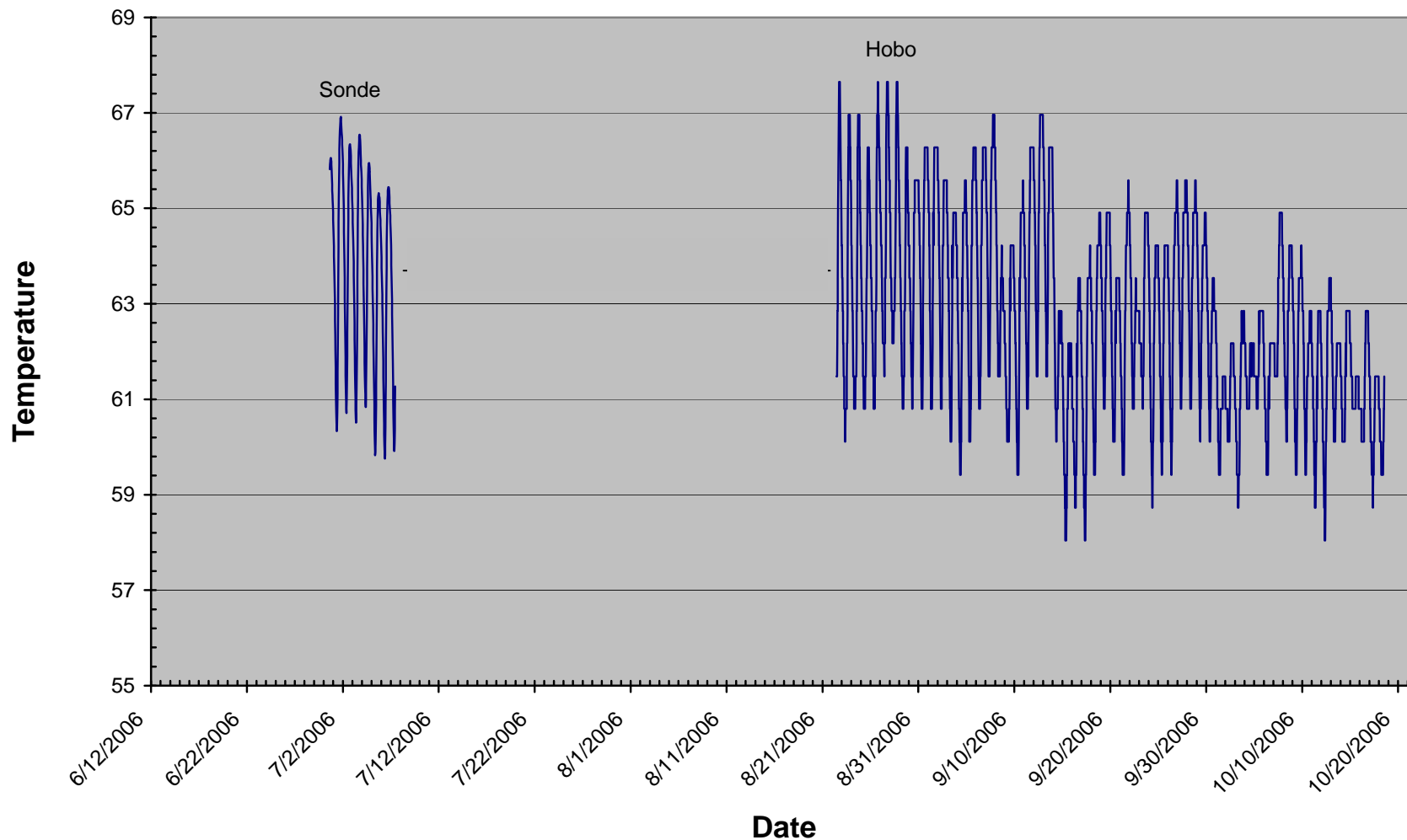


Figure SC-46. Monitoring Station Suisun Creek 9, 2006, water temperature. No data was recorded from mid-July to late August.

### Suisun Creek 9.5 June - October 2006

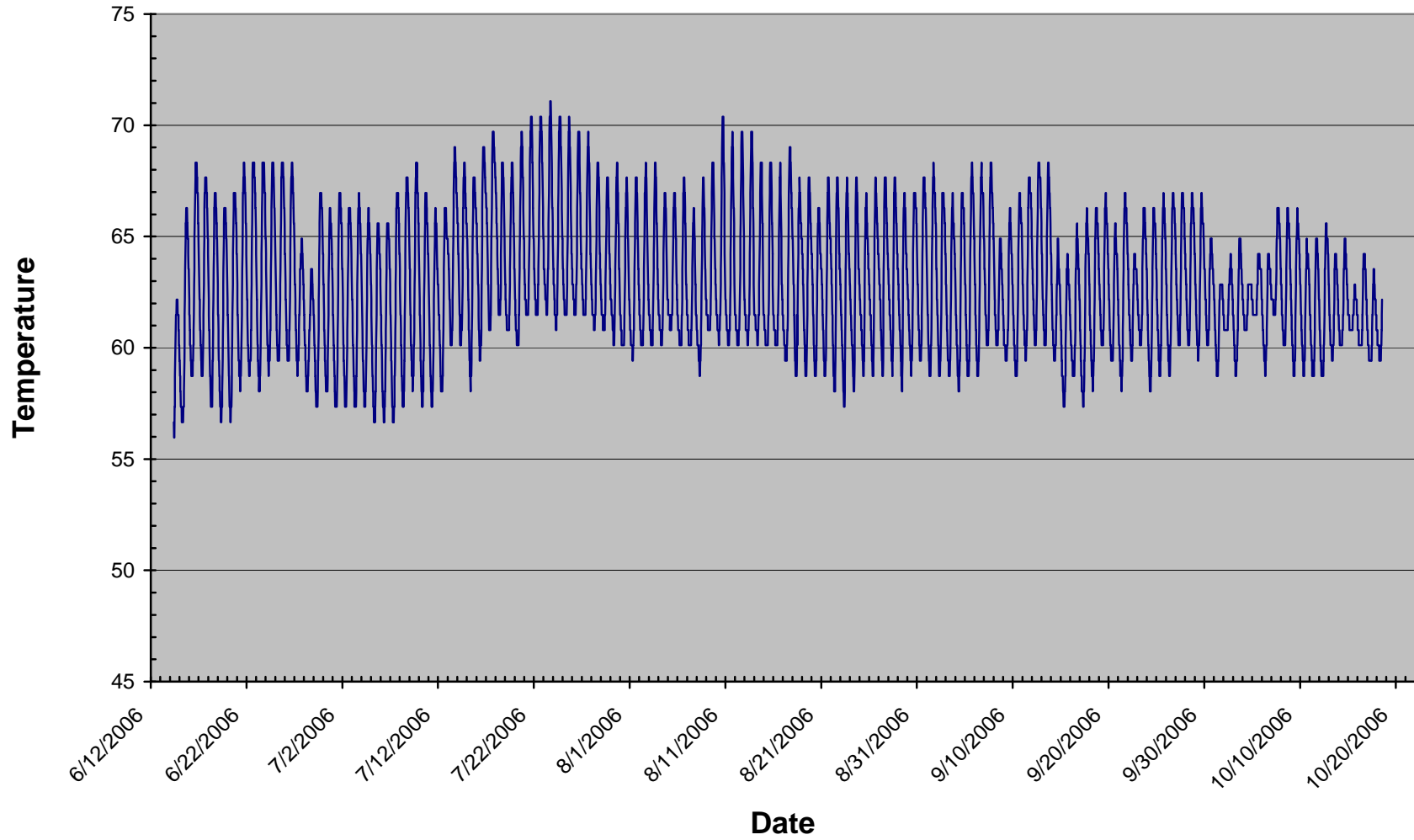


Figure SC-47. Monitoring Station Suisun Creek 9.5, 2006, water temperature.

### Suisun Creek 10 June - October 2006

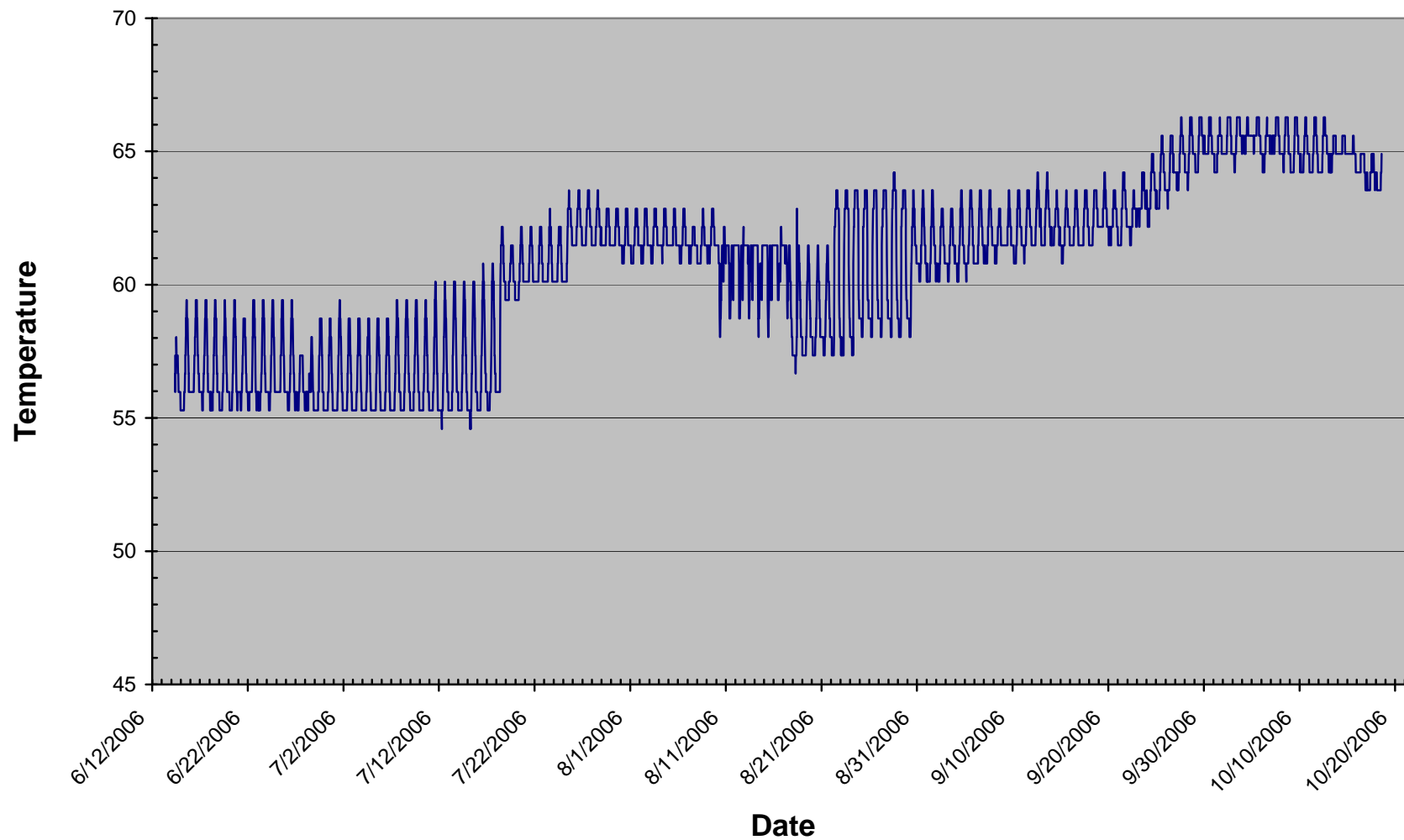


Figure SC-48. Monitoring Station Suisun Creek 10, 2006, water temperature.

### Suisun Creek 13 AIR Temperature June - August 2006

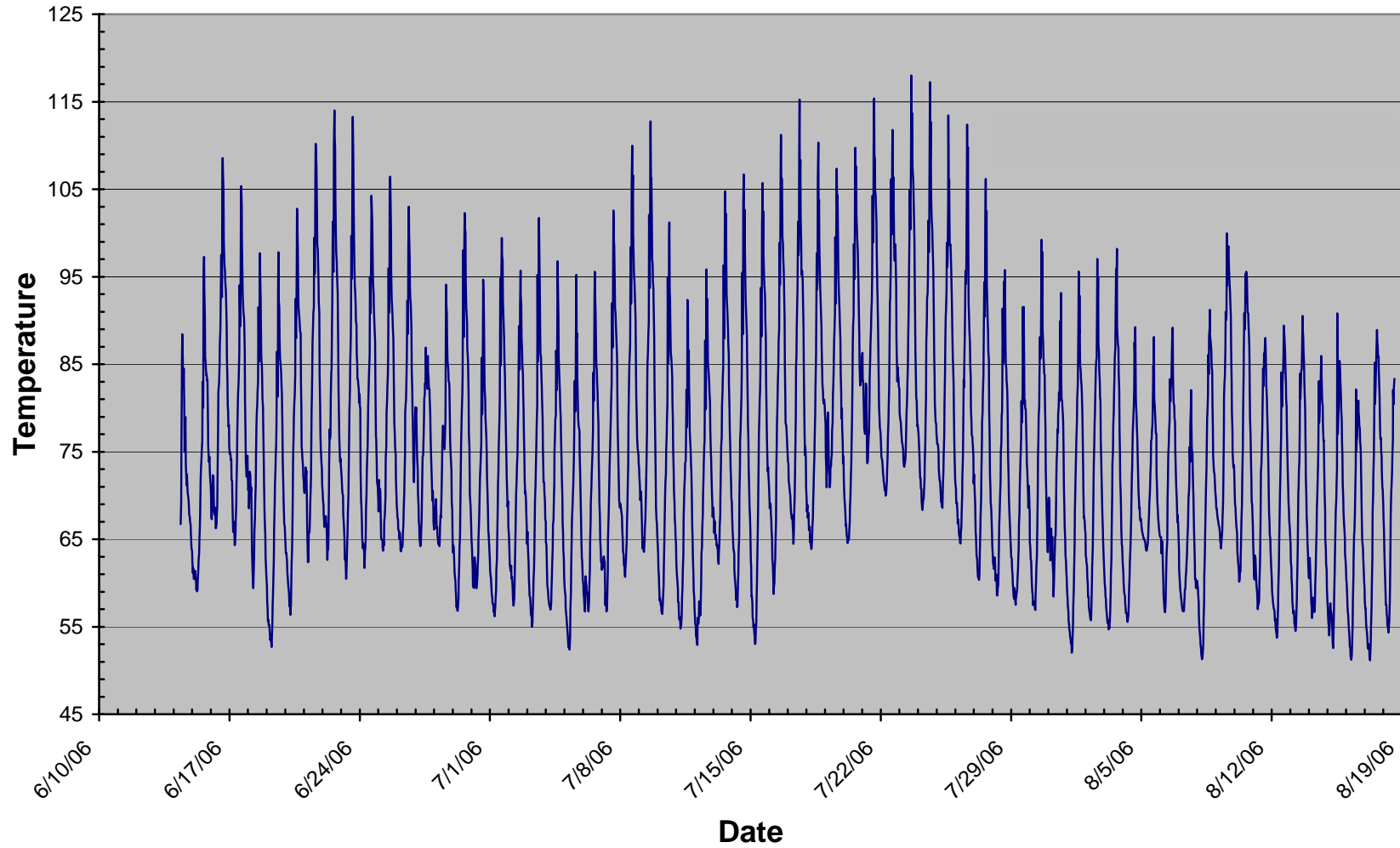


Figure SC-49. Monitoring Station Suisun Creek 13, 2006, air temperature recorded at the location of SC-6.

### Suisun Creek 3 May - October 2007

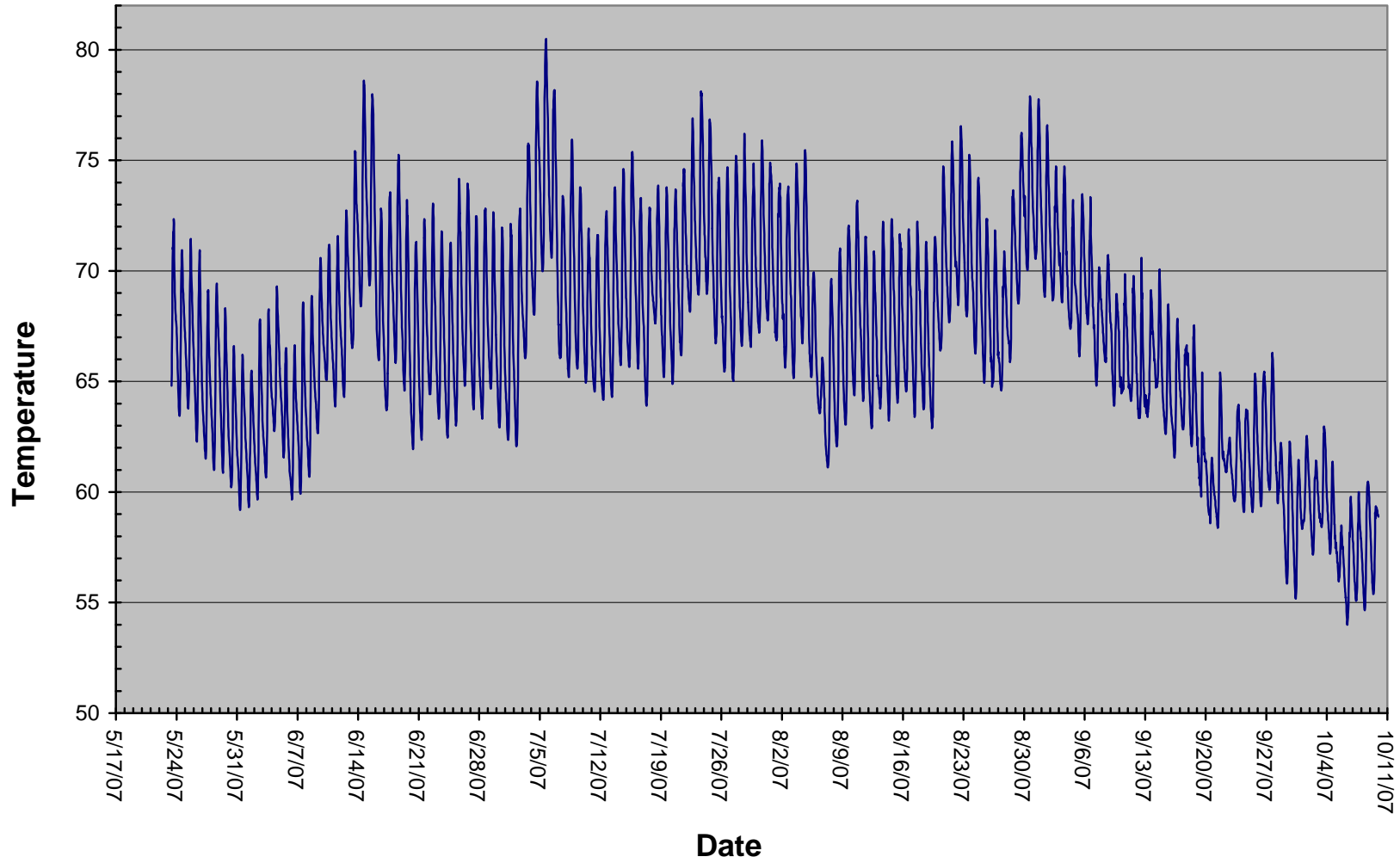


Figure SC-50. Monitoring Station Suisun Creek 3, 2007, water temperature.

### Suisun Creek 4.6 May - November 2007

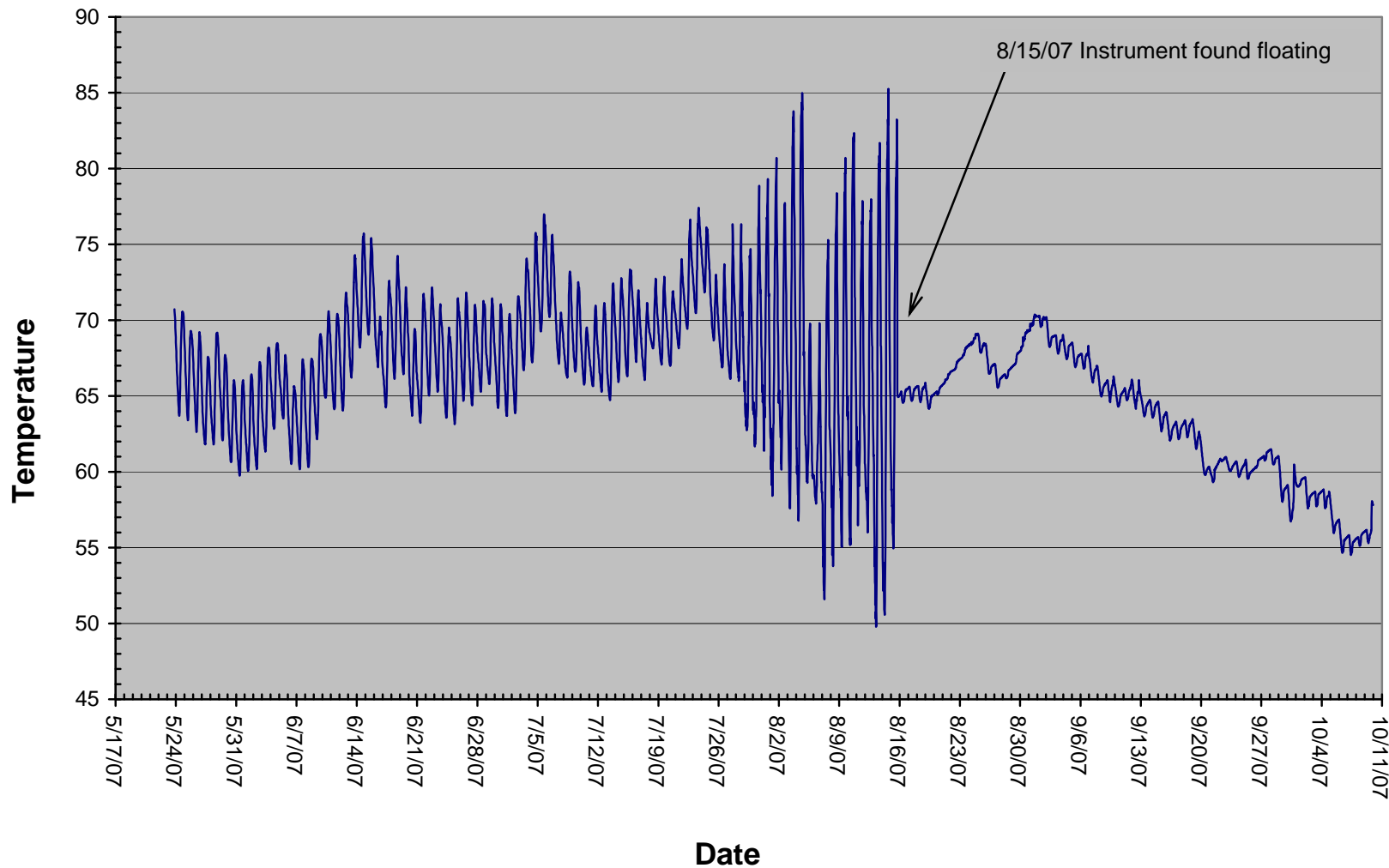


Figure SC-51. Monitoring Station Suisun Creek 4.6, 2007, water temperature.

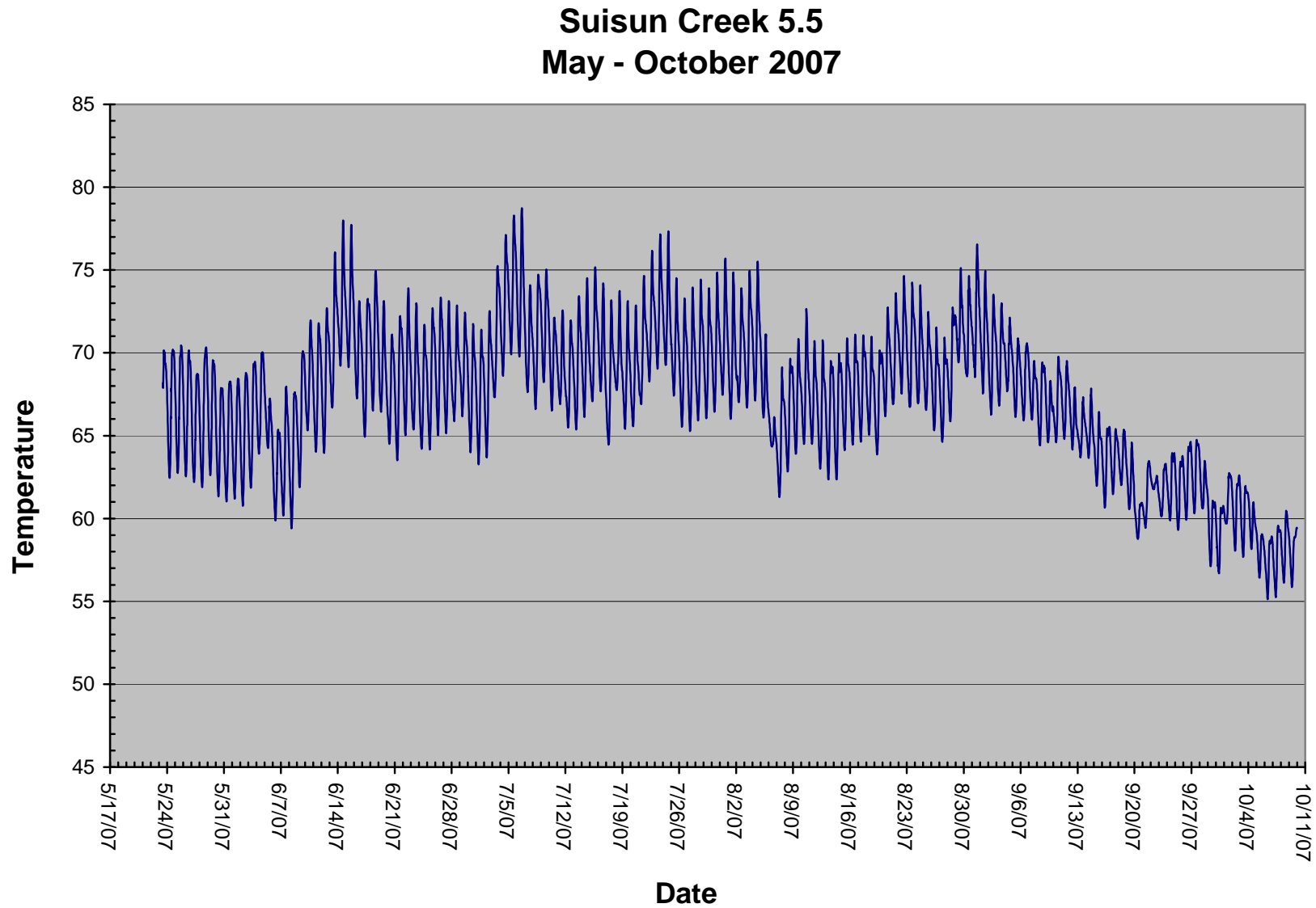


Figure SC-52. Monitoring Station Suisun Creek 5.5, 2007, water temperature.



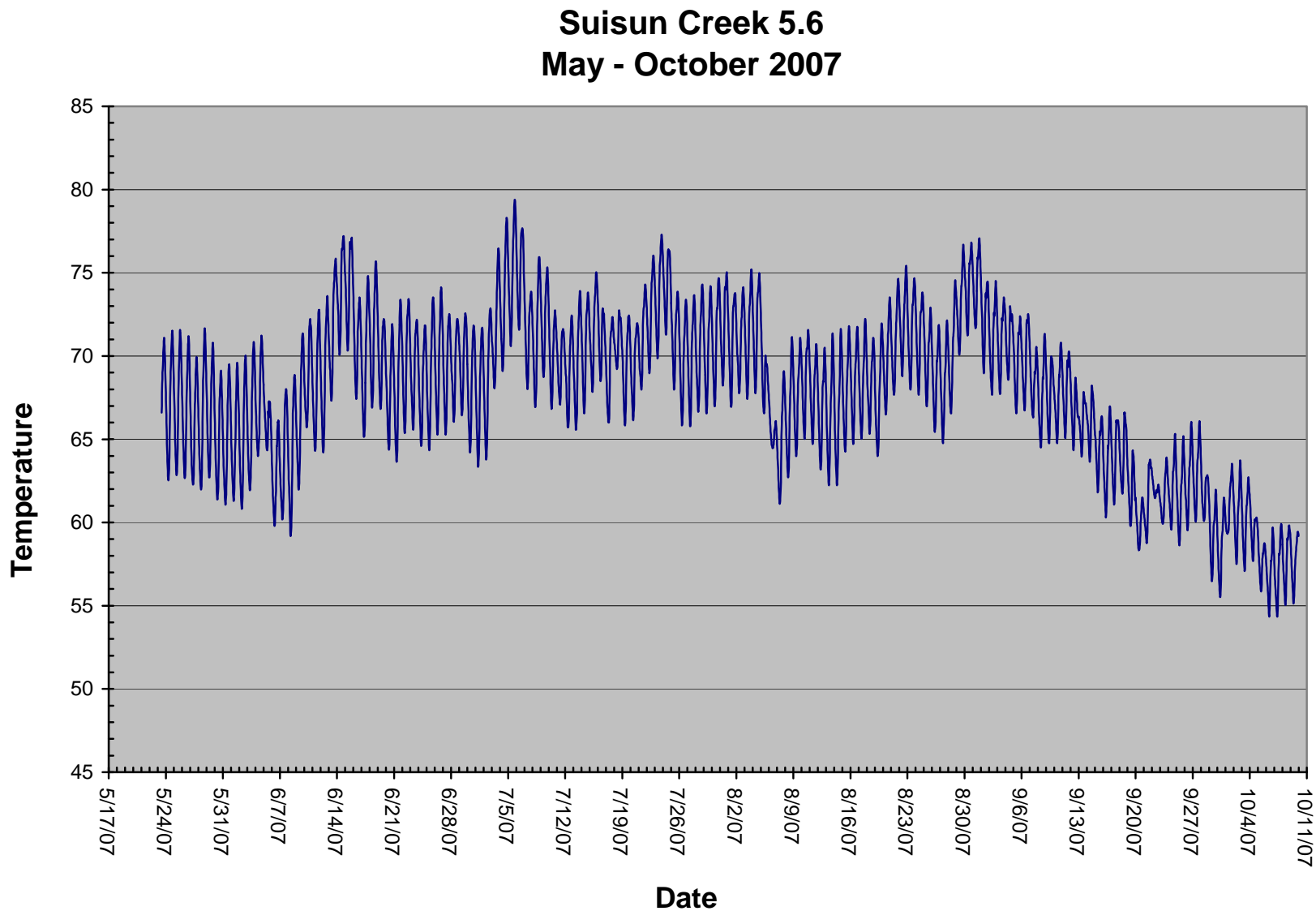


Figure SC-53. Monitoring Station Suisun Creek 5.6, 2007, water temperature.

### Suisun Creek 6 June - October 2007

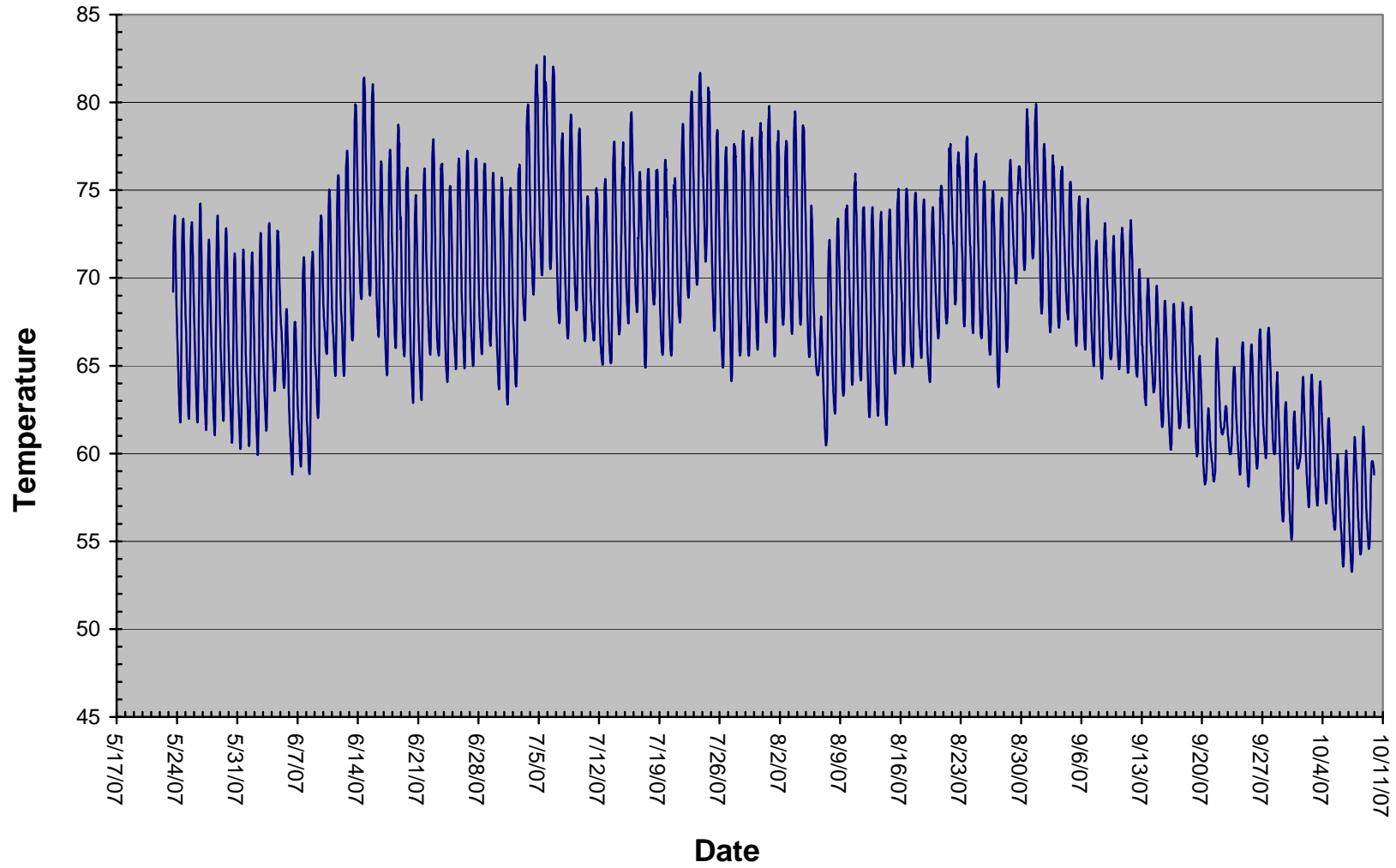


Figure SC-54. Monitoring Station Suisun Creek 6, 2007, water temperature.

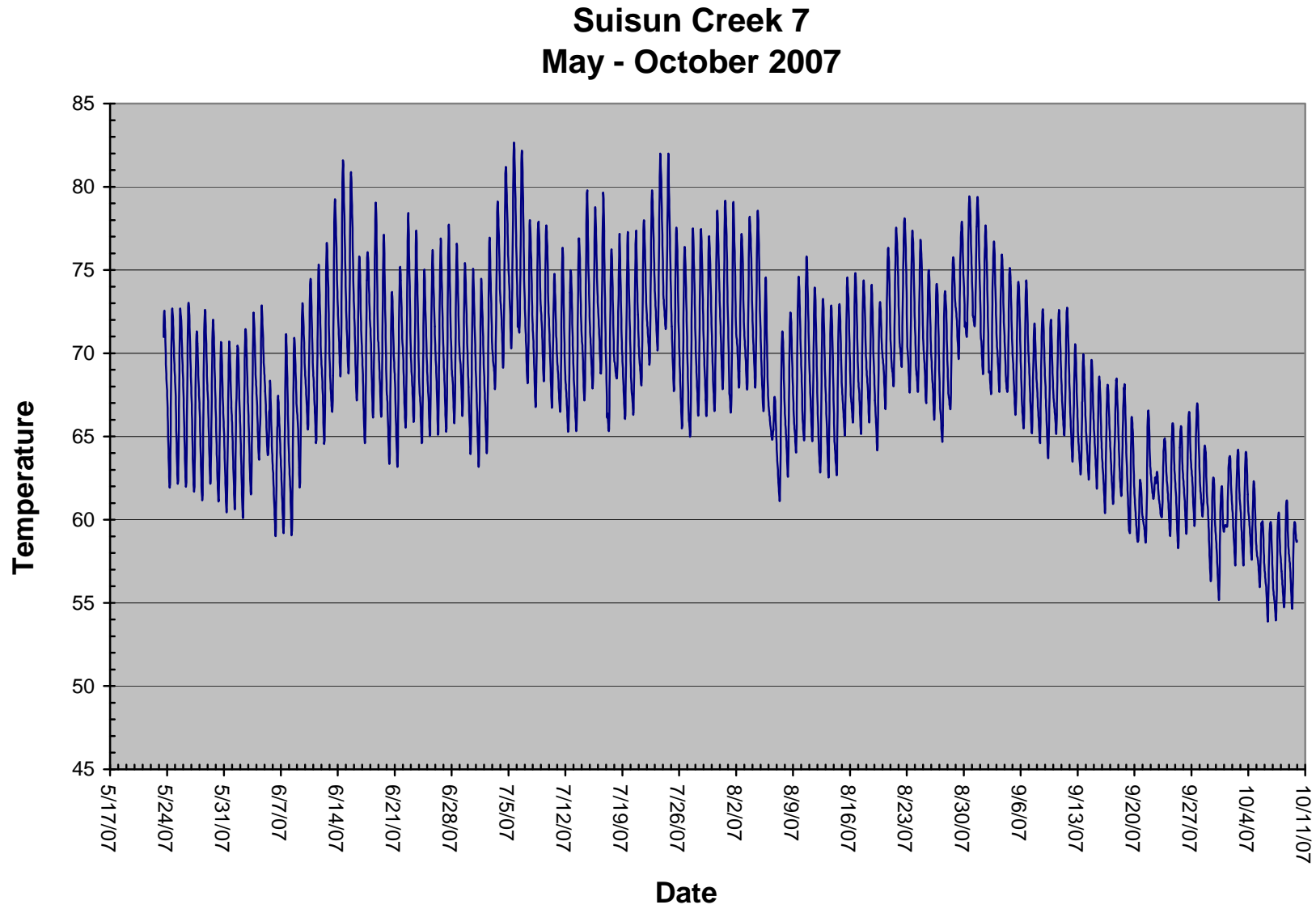


Figure SC-55. Monitoring Station Suisun Creek 7, 2007, water temperature.

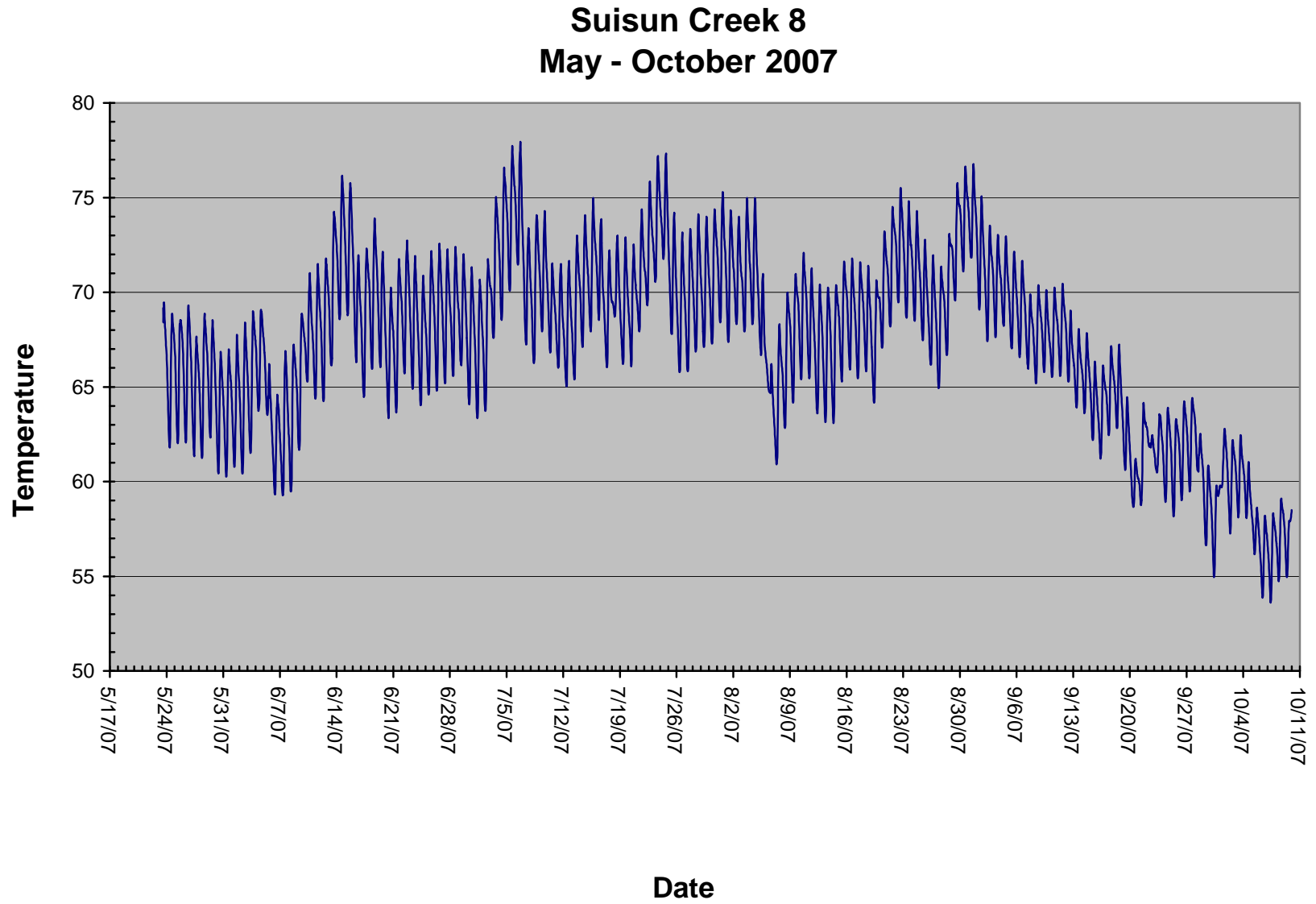


Figure SC-56. Monitoring Station Suisun Creek 8, 2007, water temperature.

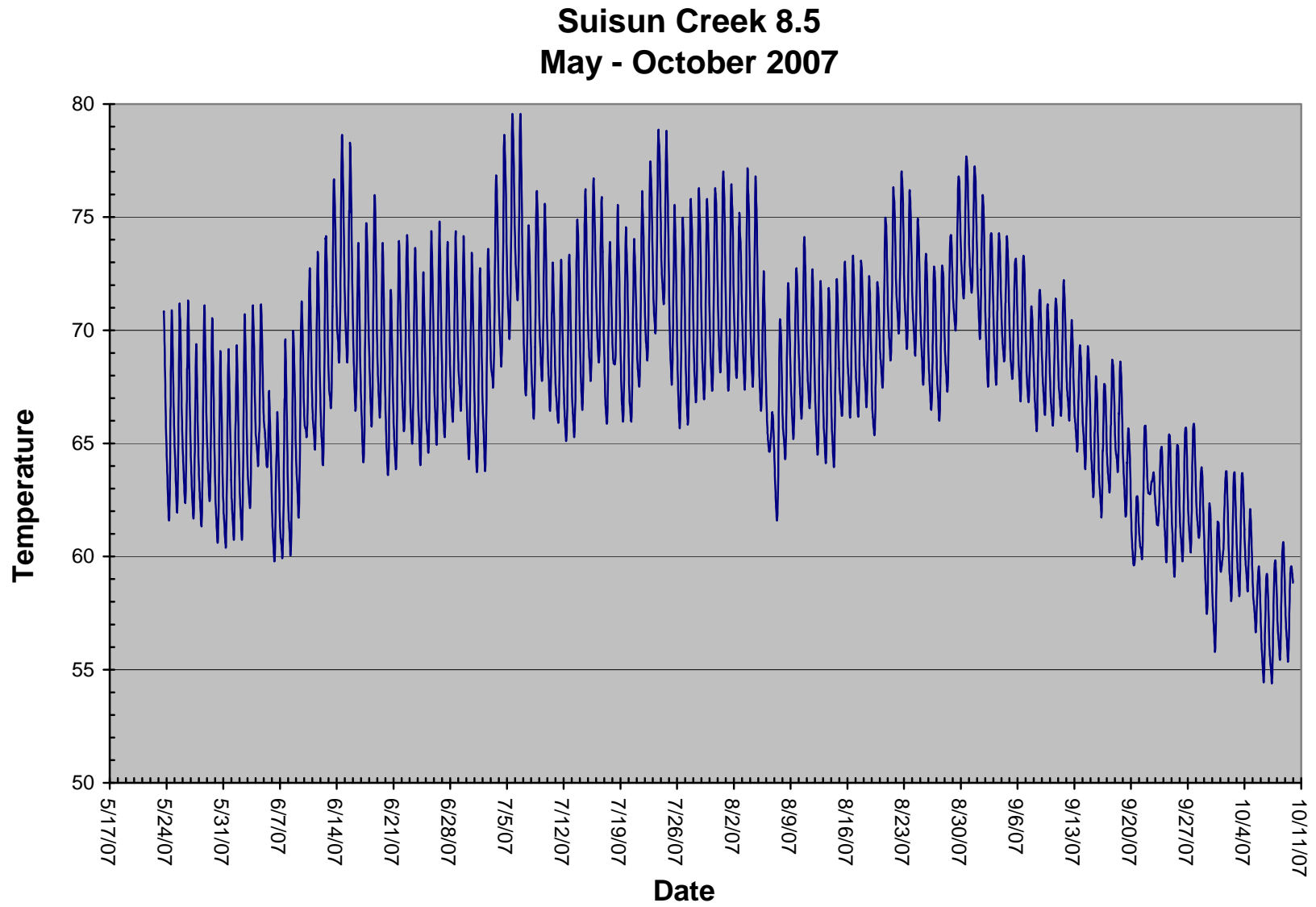


Figure SC-57. Monitoring Station Suisun Creek 8.5, 2007, water temperature.

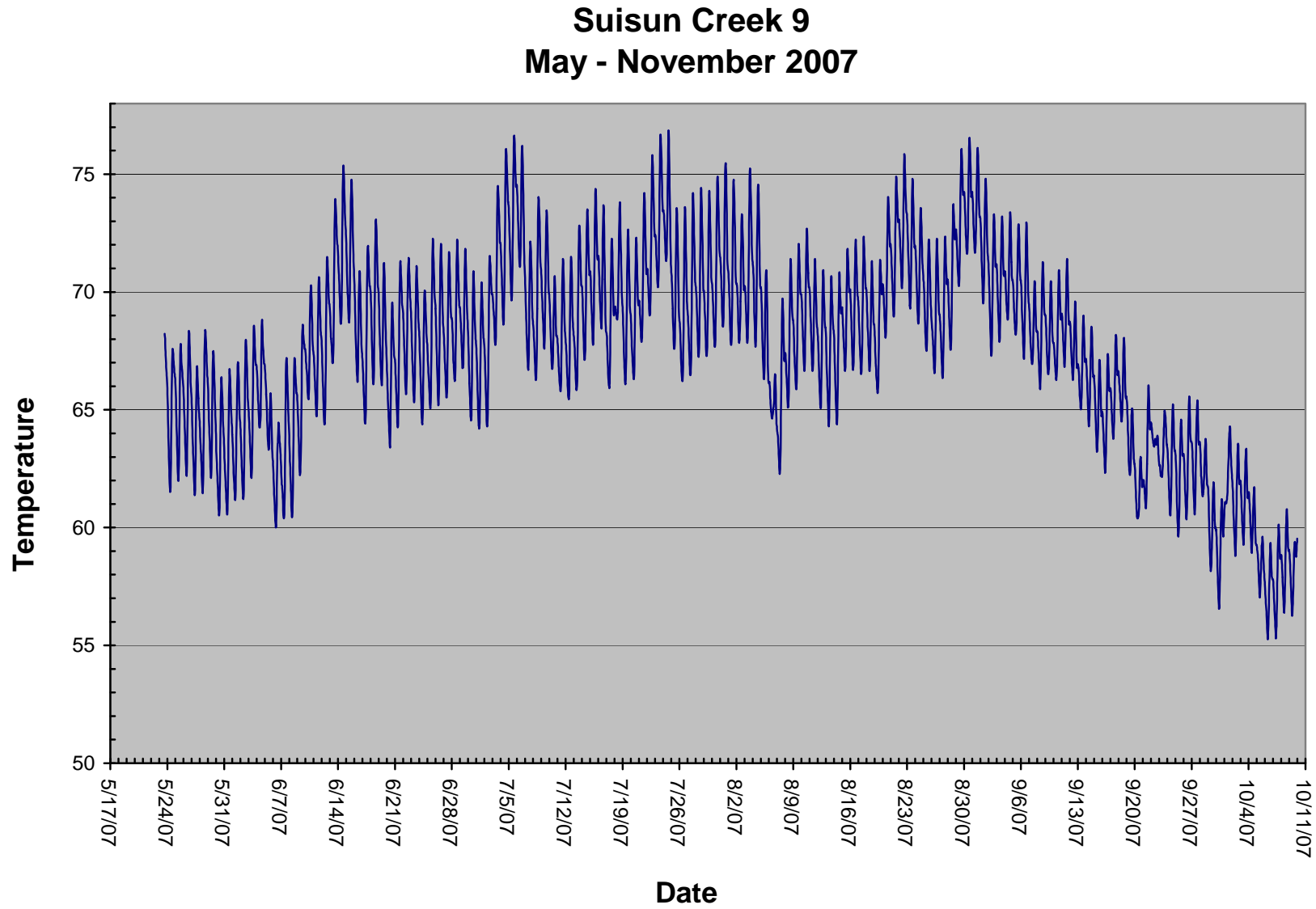


Figure SC-58. Monitoring Station Suisun Creek 9, 2007, water temperature.

### Suisun Creek 9.5 May - October 2007

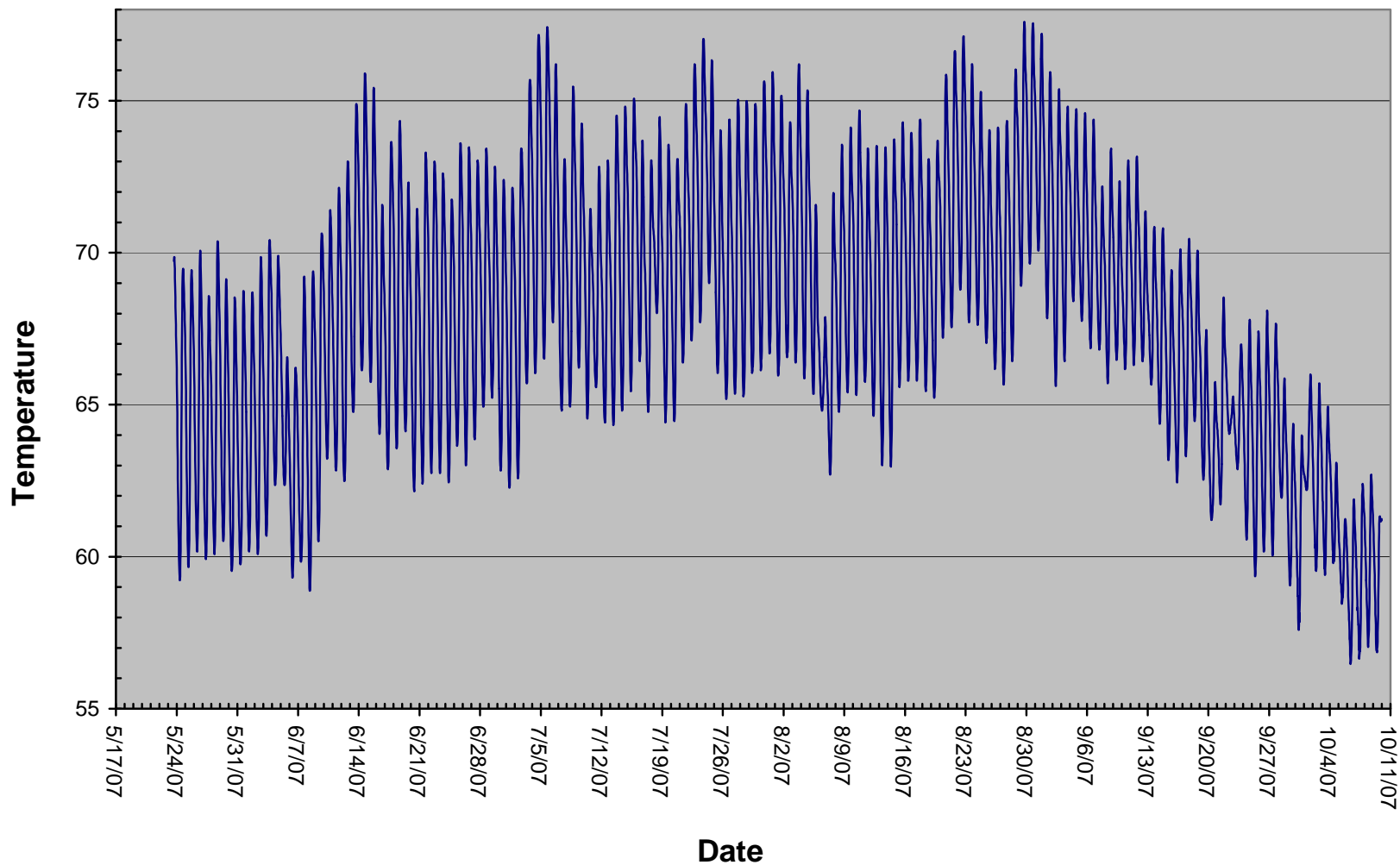


Figure SC-59. Monitoring Station Suisun Creek 9.5, 2007, water temperature.

### Suisun Creek 10 May - October 2007

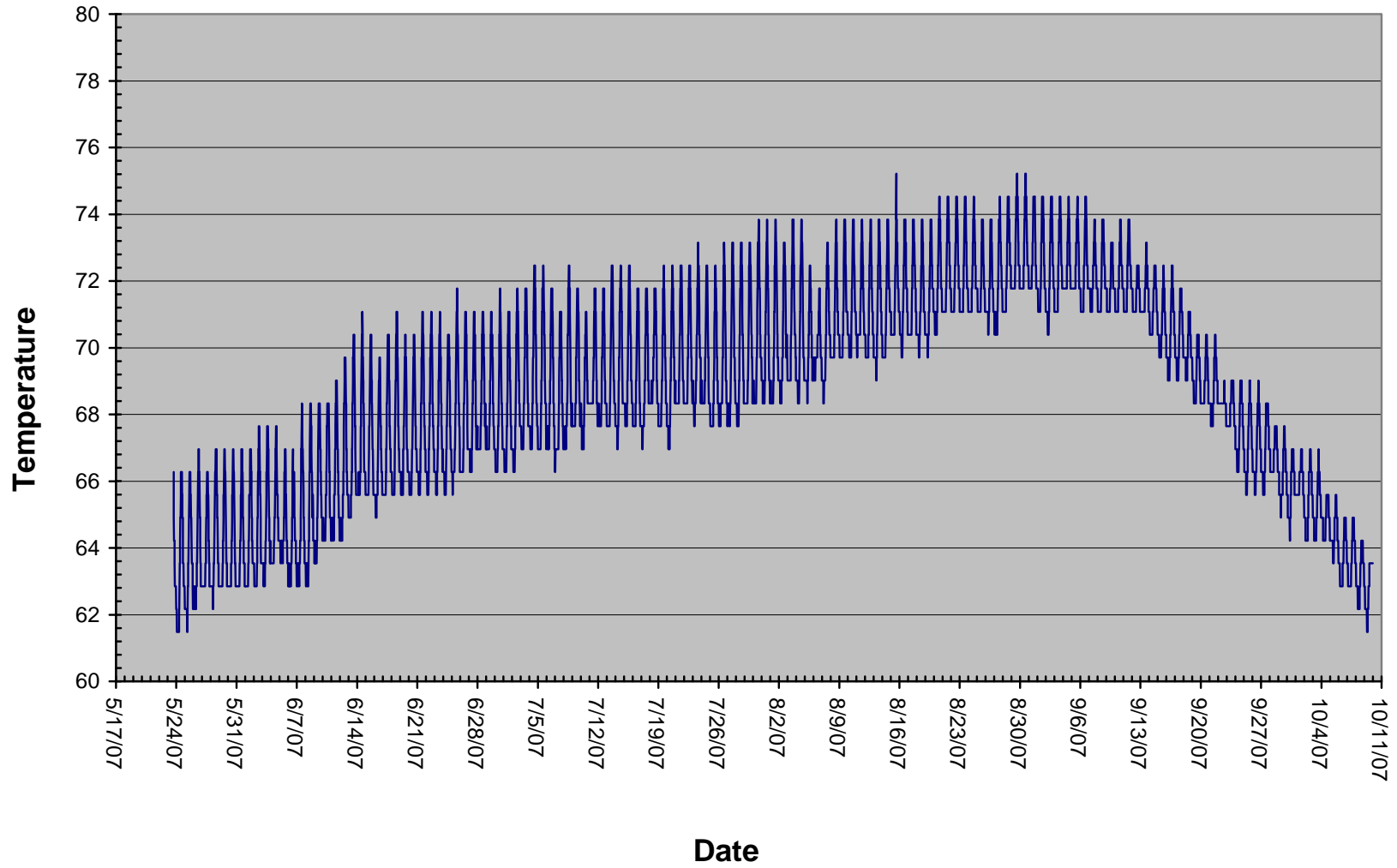


Figure SC-60. Monitoring Station Suisun Creek 10, 2007, water temperature.



### Suisun Creek 13 Air Temperature May - October 2007

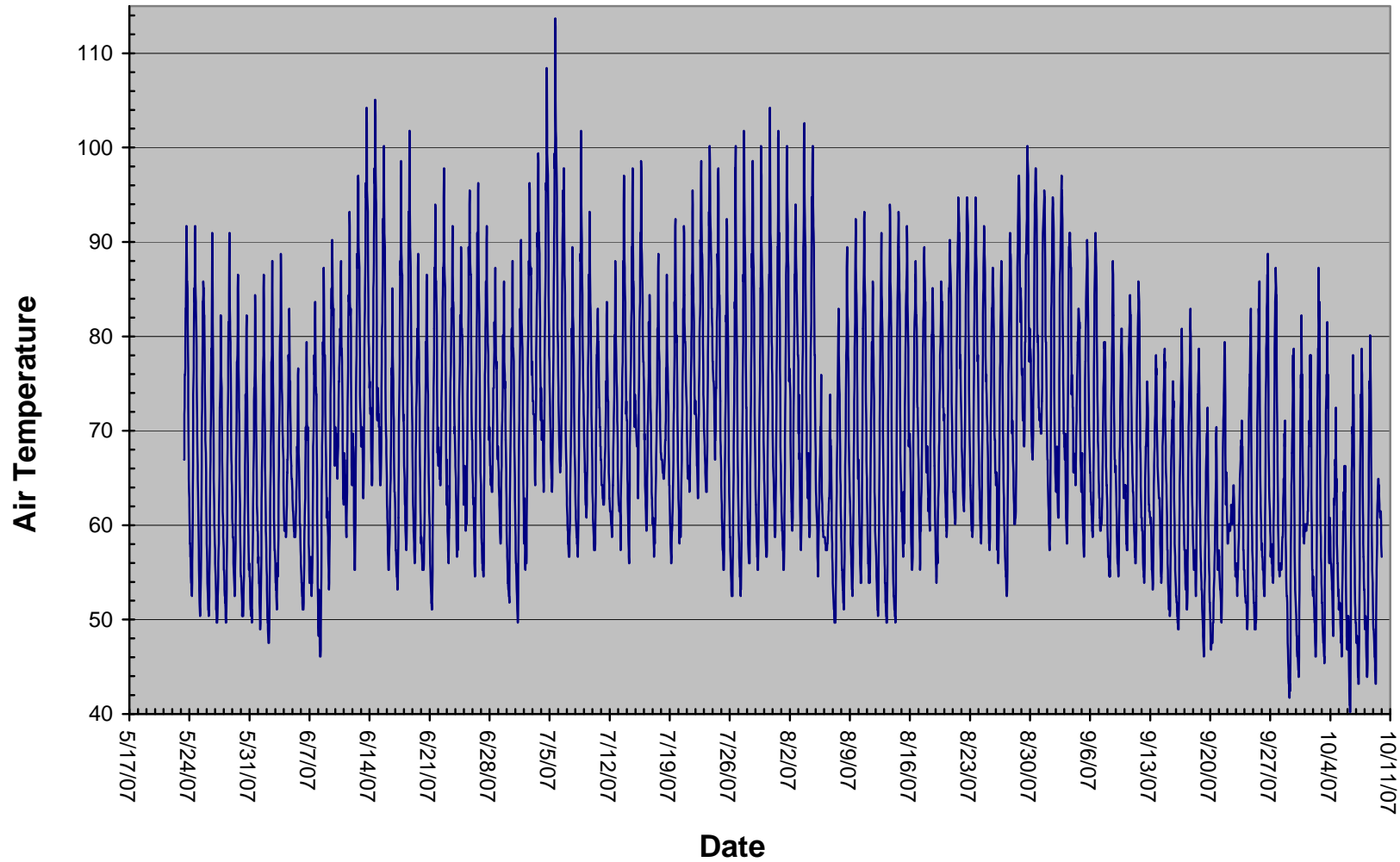


Figure SC-61. Monitoring Station Suisun Creek 13, 2007, air temperature recorded at the location of SC-6.

### Suisun Creek 1 May - October 2009

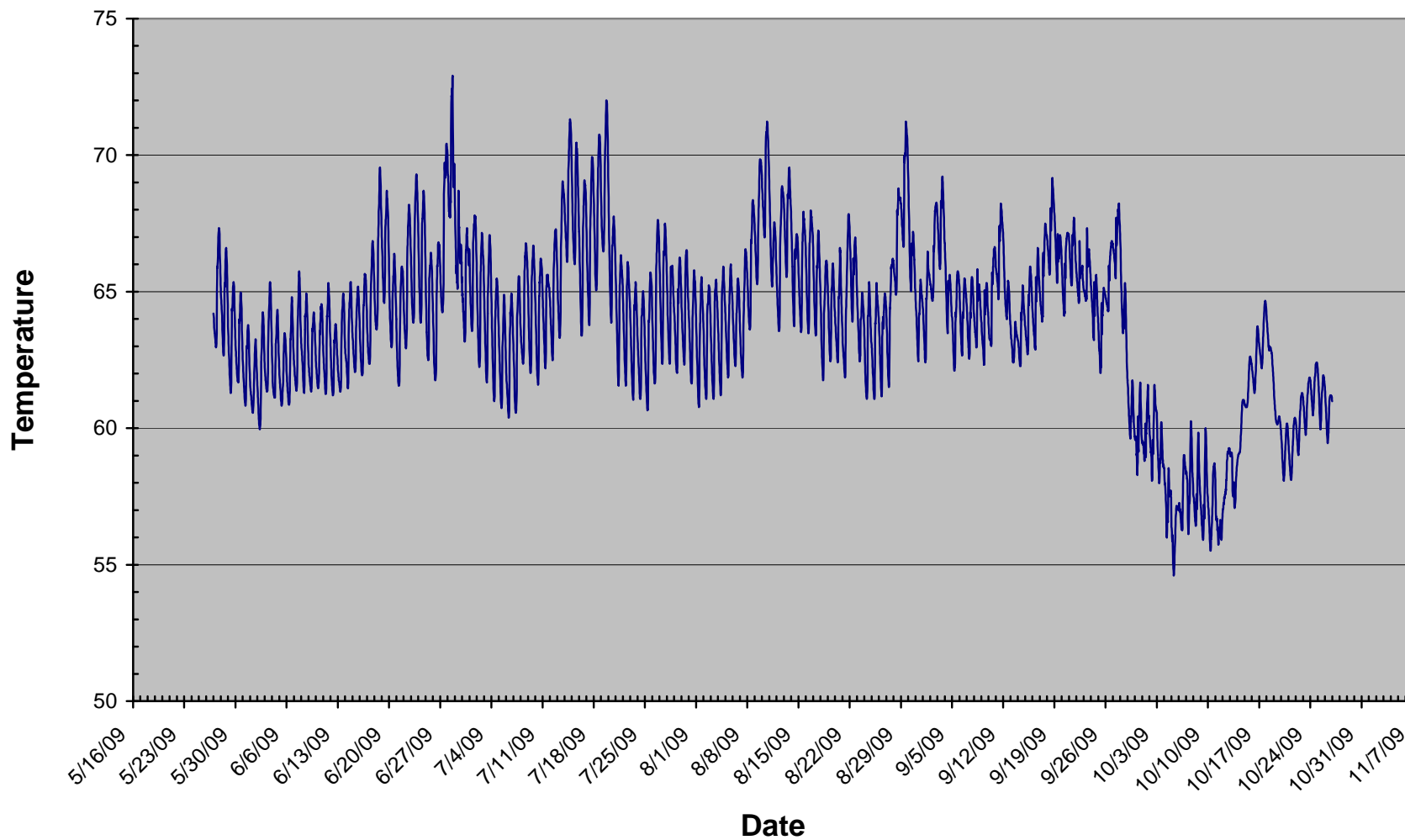


Figure SC-62. Monitoring Station Suisun Creek 1, 2009, water temperature.

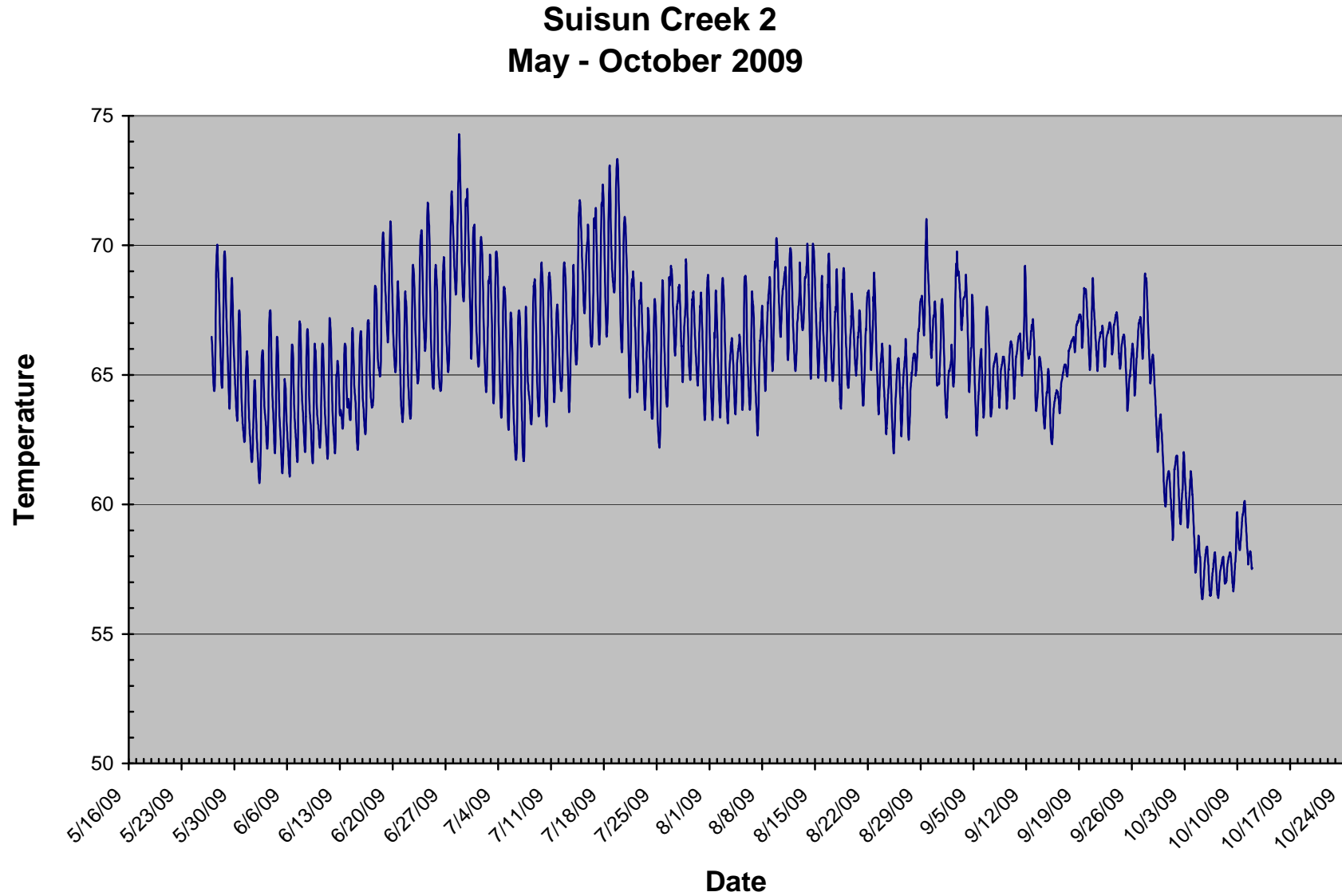


Figure SC-63. Monitoring Station Suisun Creek 2, 2009, water temperature.

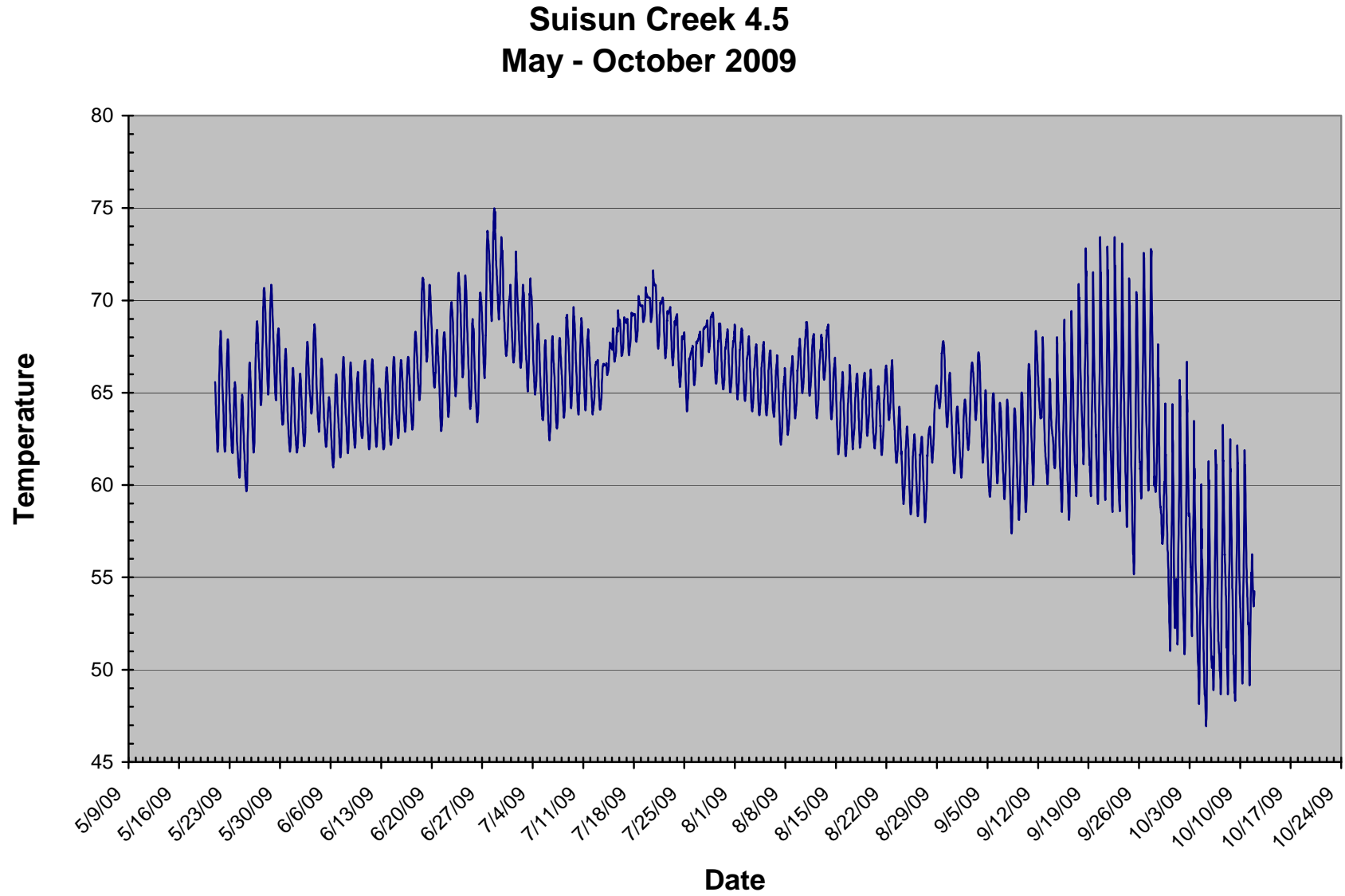


Figure SC-64. Monitoring Station Suisun Creek 4.5, 2009, water temperature.

### Suisun Creek 4.6 May - October 2009

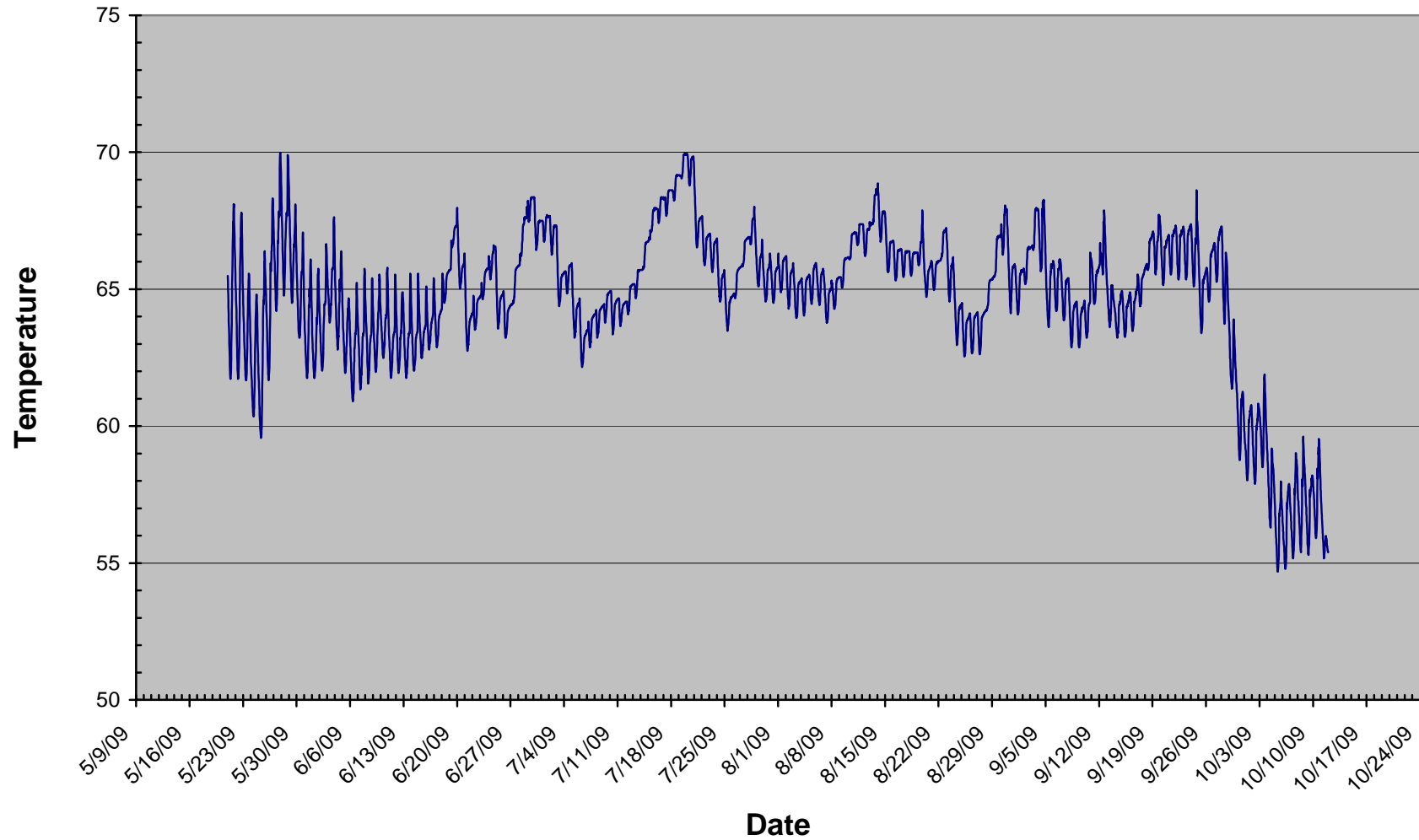


Figure SC-65. Monitoring Station Suisun Creek 4.6, 2009, water temperature.

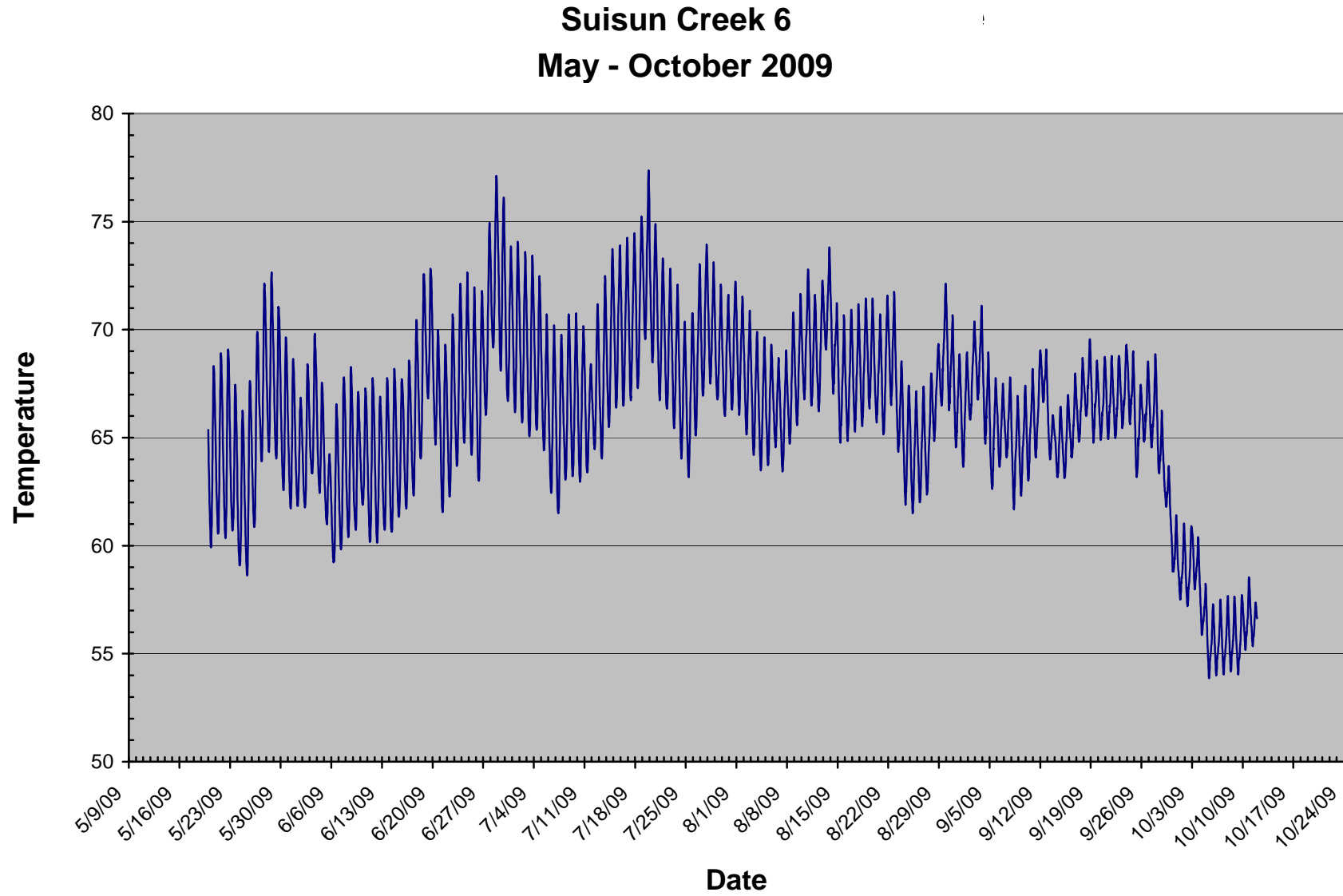


Figure SC-66. Monitoring Station Suisun Creek 6, 2009, water temperature.

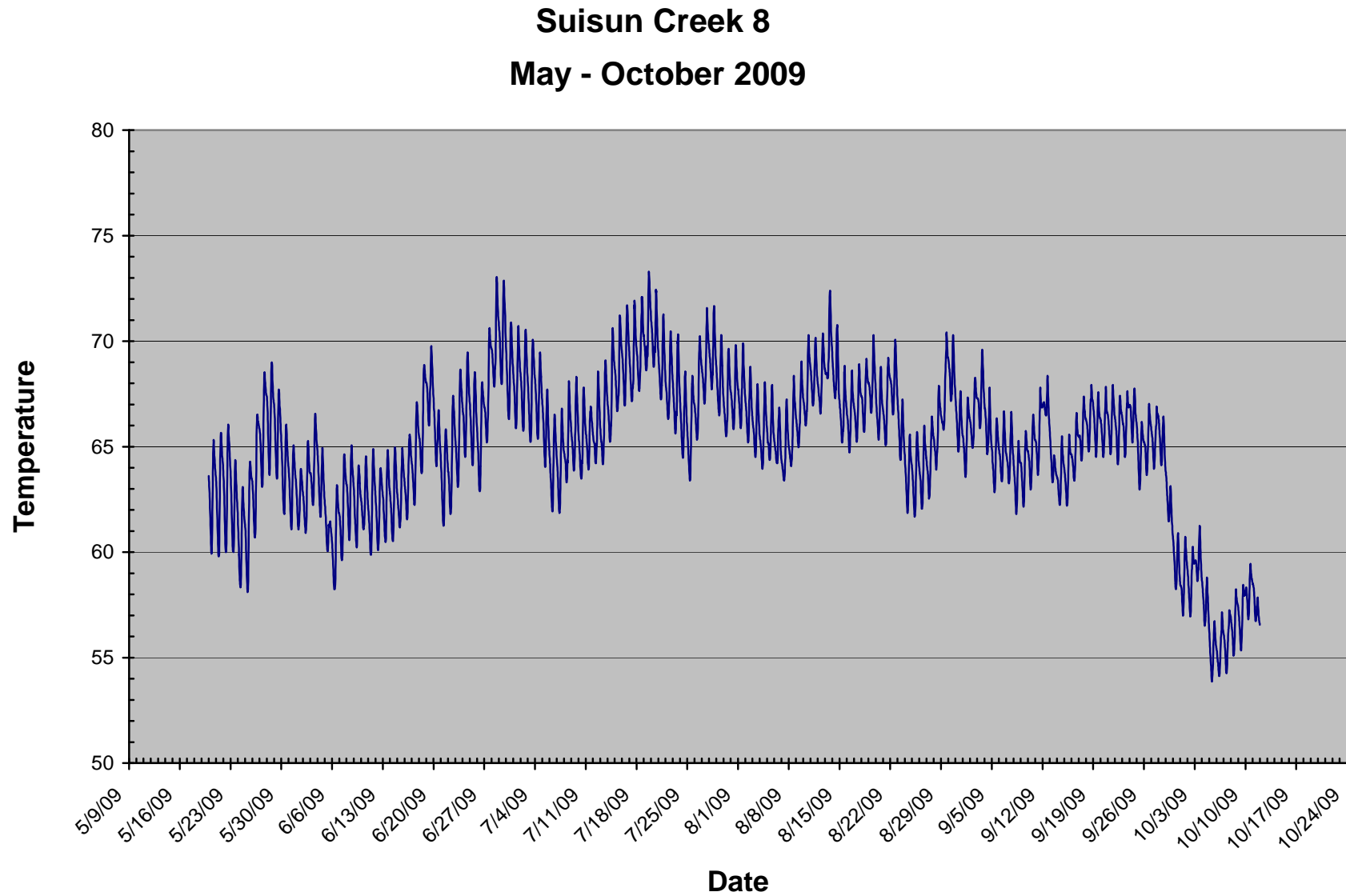


Figure SC-67. Monitoring Station Suisun Creek 8, 2009, water temperature.

### Suisun Creek 8.5 May - October 2009

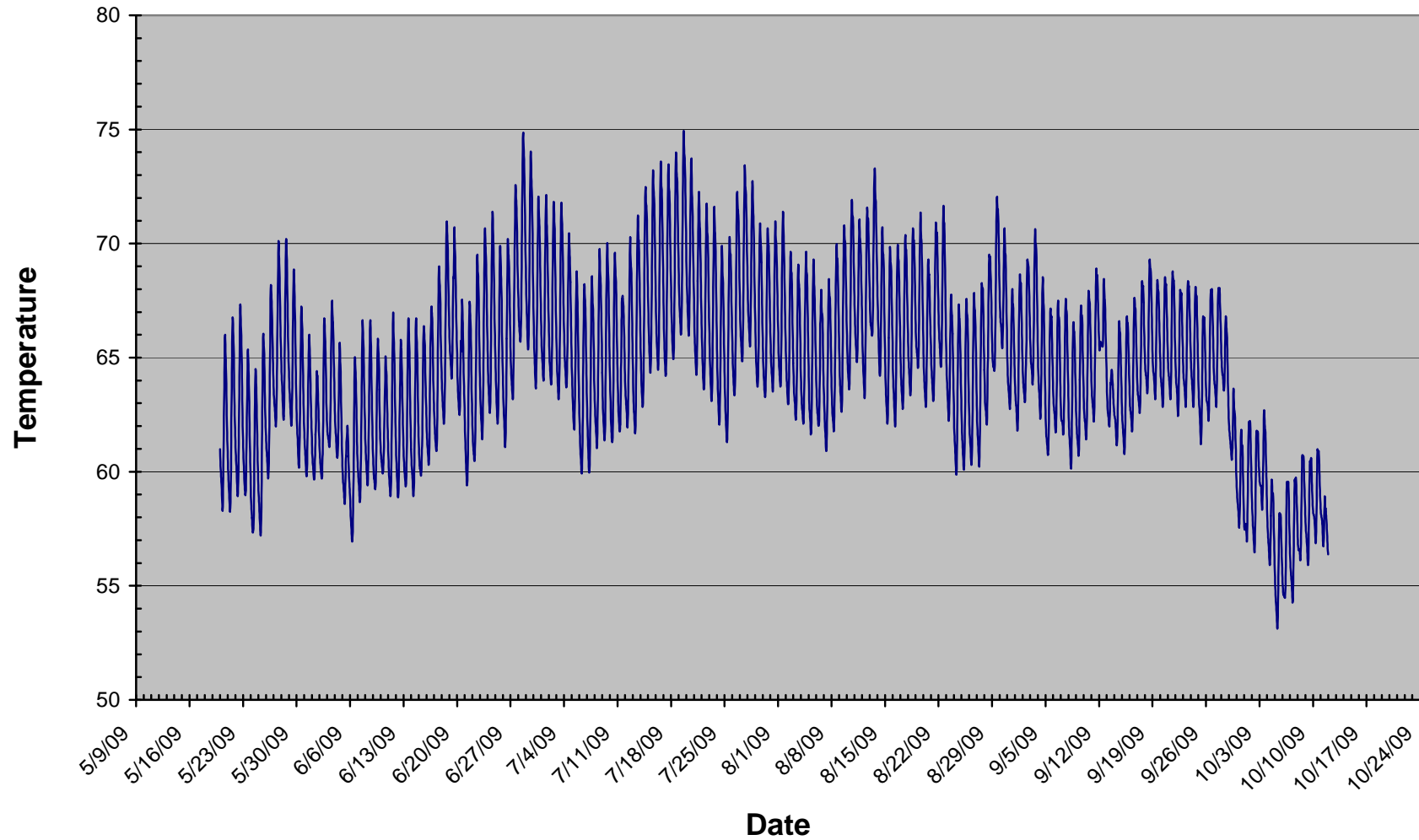


Figure SC-68. Monitoring Station Suisun Creek 8.5, 2009, water temperature.



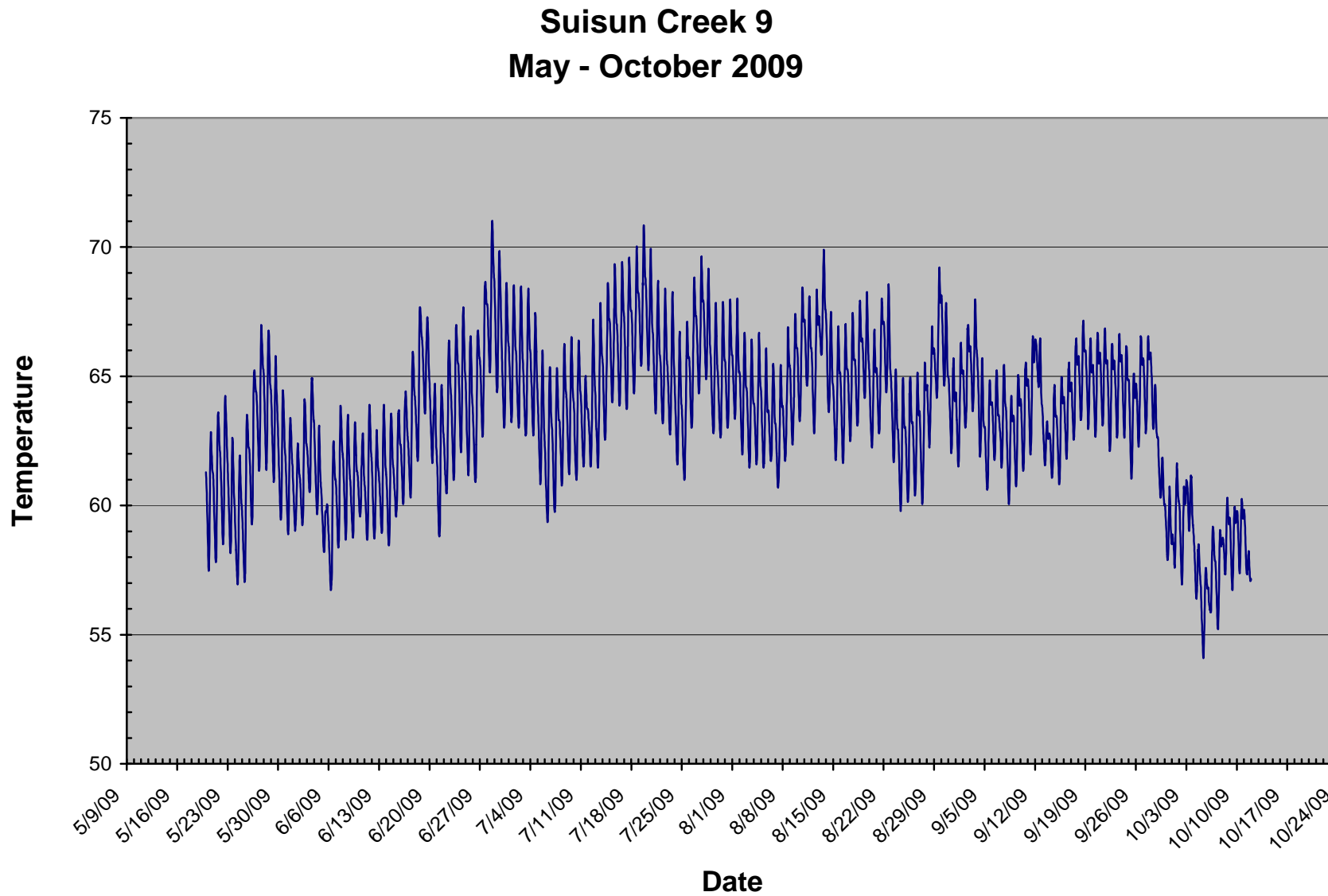


Figure SC-69. Monitoring Station Suisun Creek 9, 2009, water temperature.

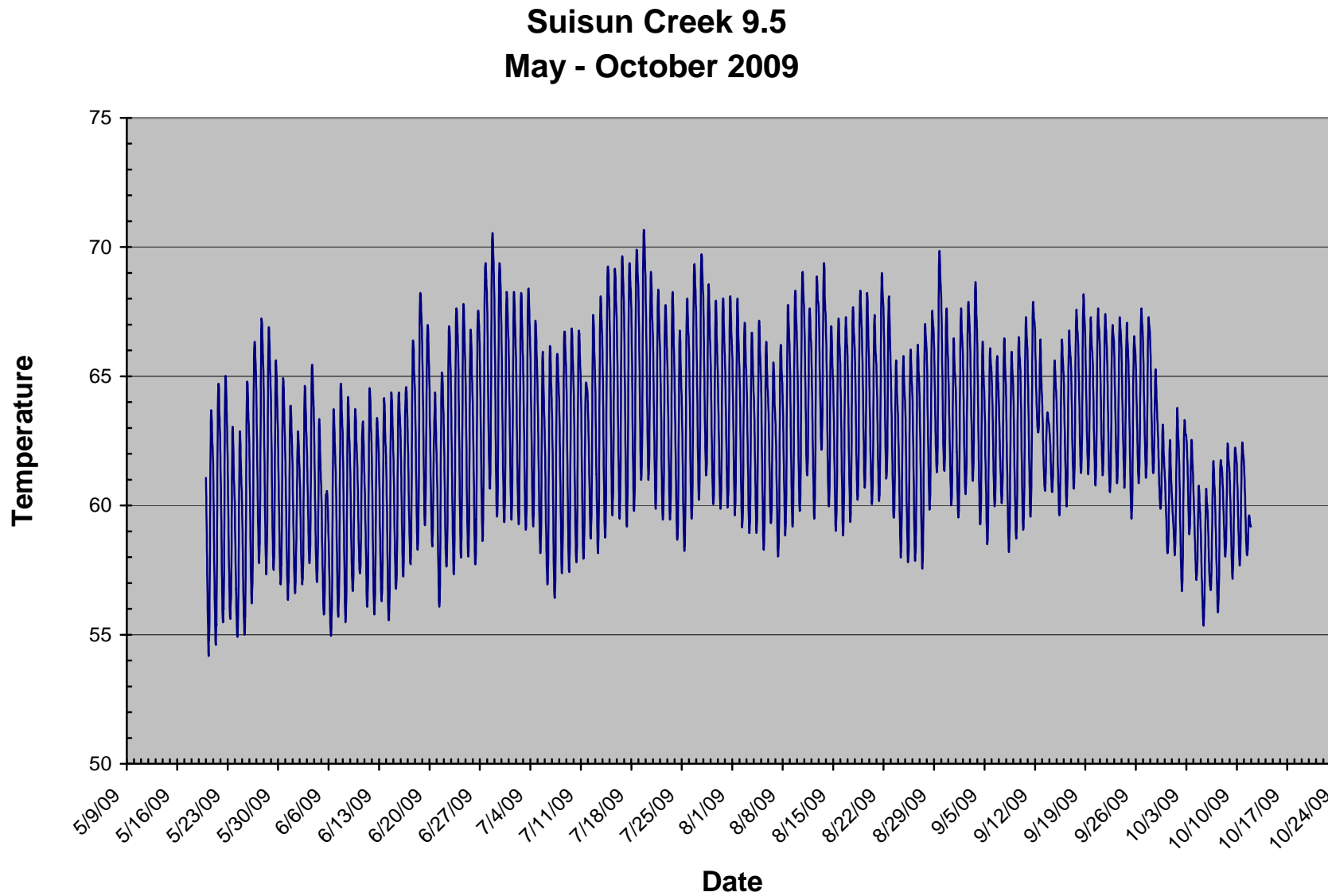


Figure SC-70. Monitoring Station Suisun Creek 9.5, 2009, water temperature.

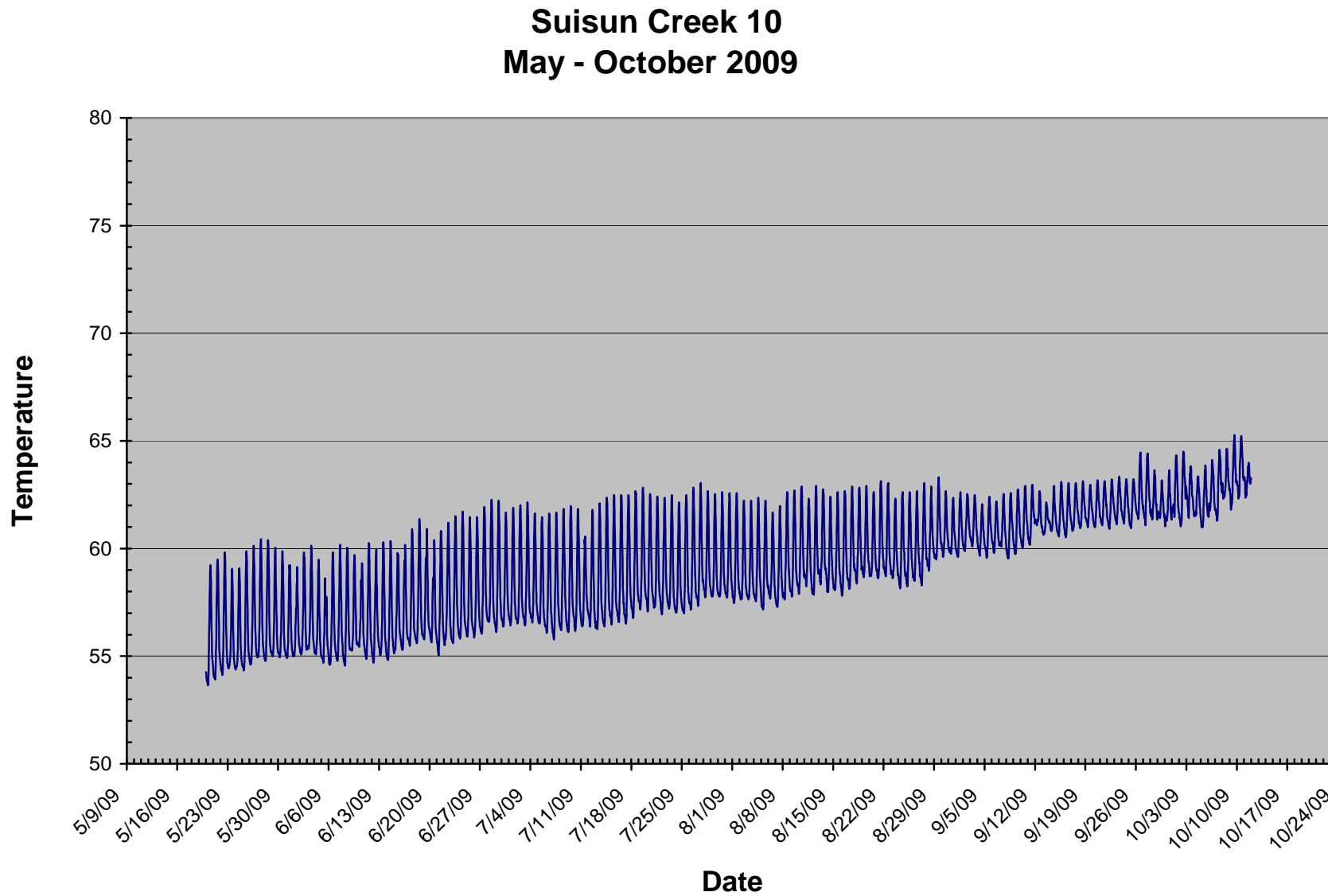


Figure SC-71. Monitoring Station Suisun Creek 10, 2009, water temperature.

### Suisun Creek 13 Air Temperature May - October 2009

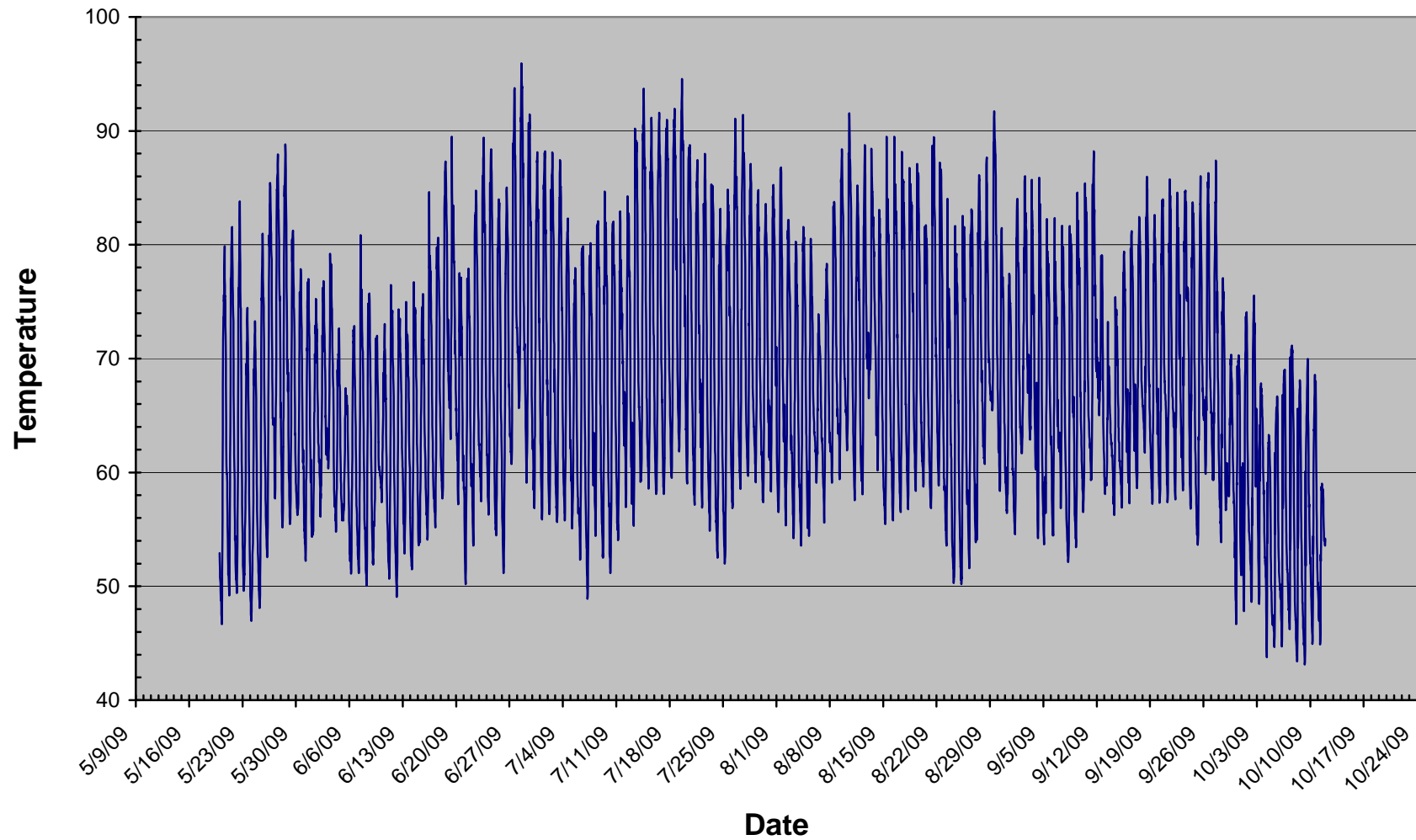


Figure SC-72. Monitoring Station Suisun Creek 13, 2009, air temperature.

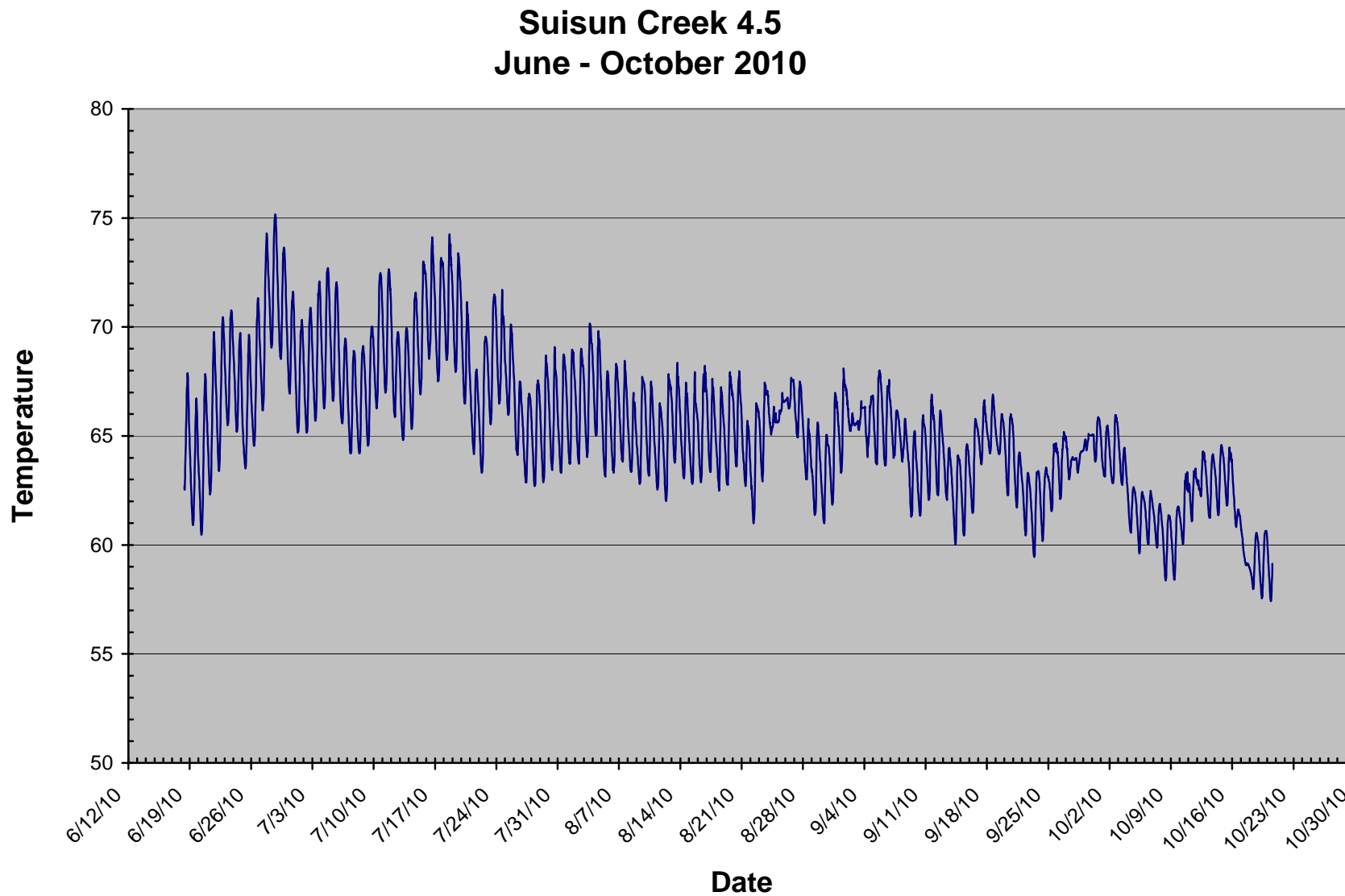


Figure SC-73. Monitoring Station Suisun Creek 4.5, 2010, water temperature.

### Suisun Creek 6 June - October 2010

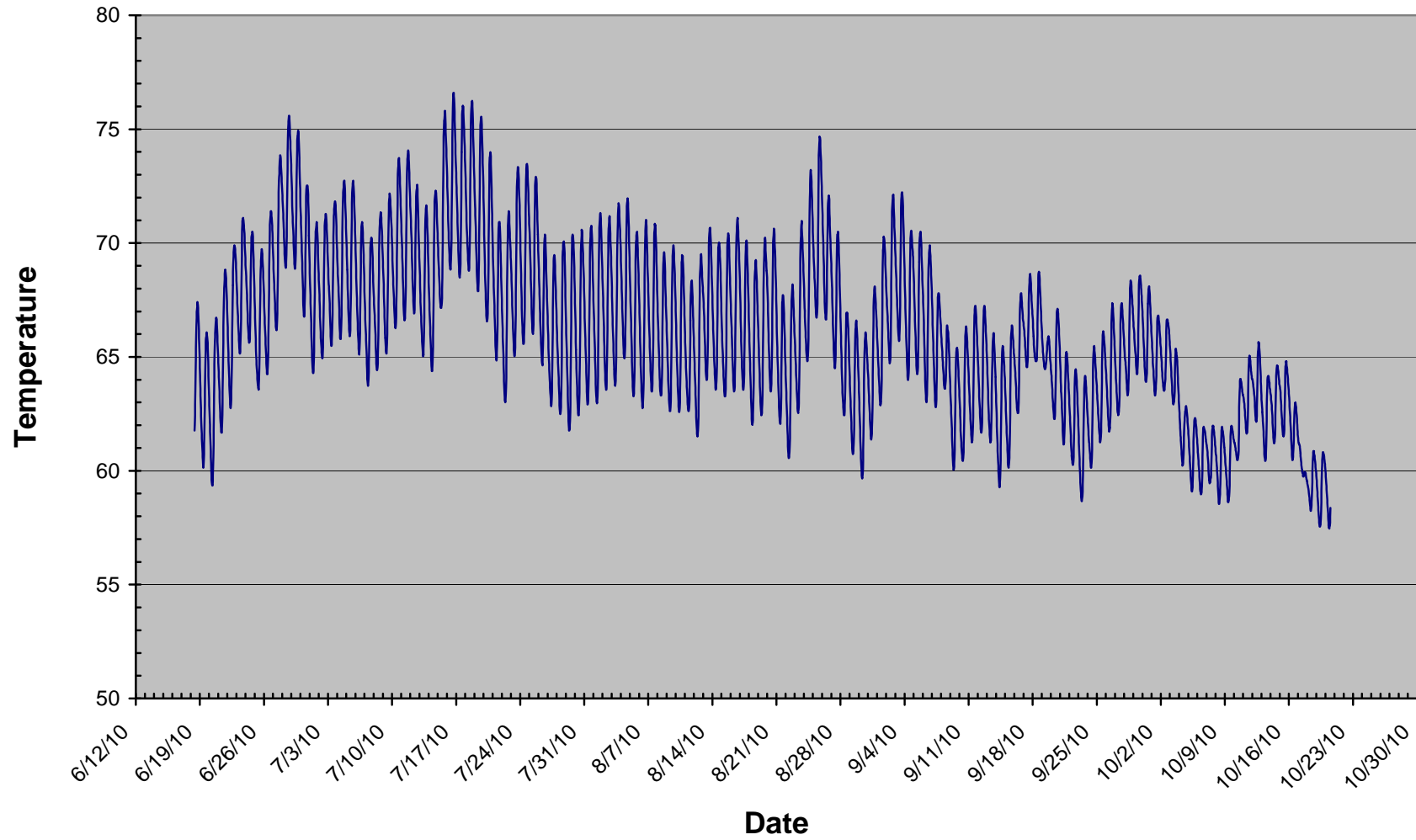


Figure SC-74. Monitoring Station Suisun Creek 6, 2010, water temperature.

### Suisun Creek 7 June - October 2010

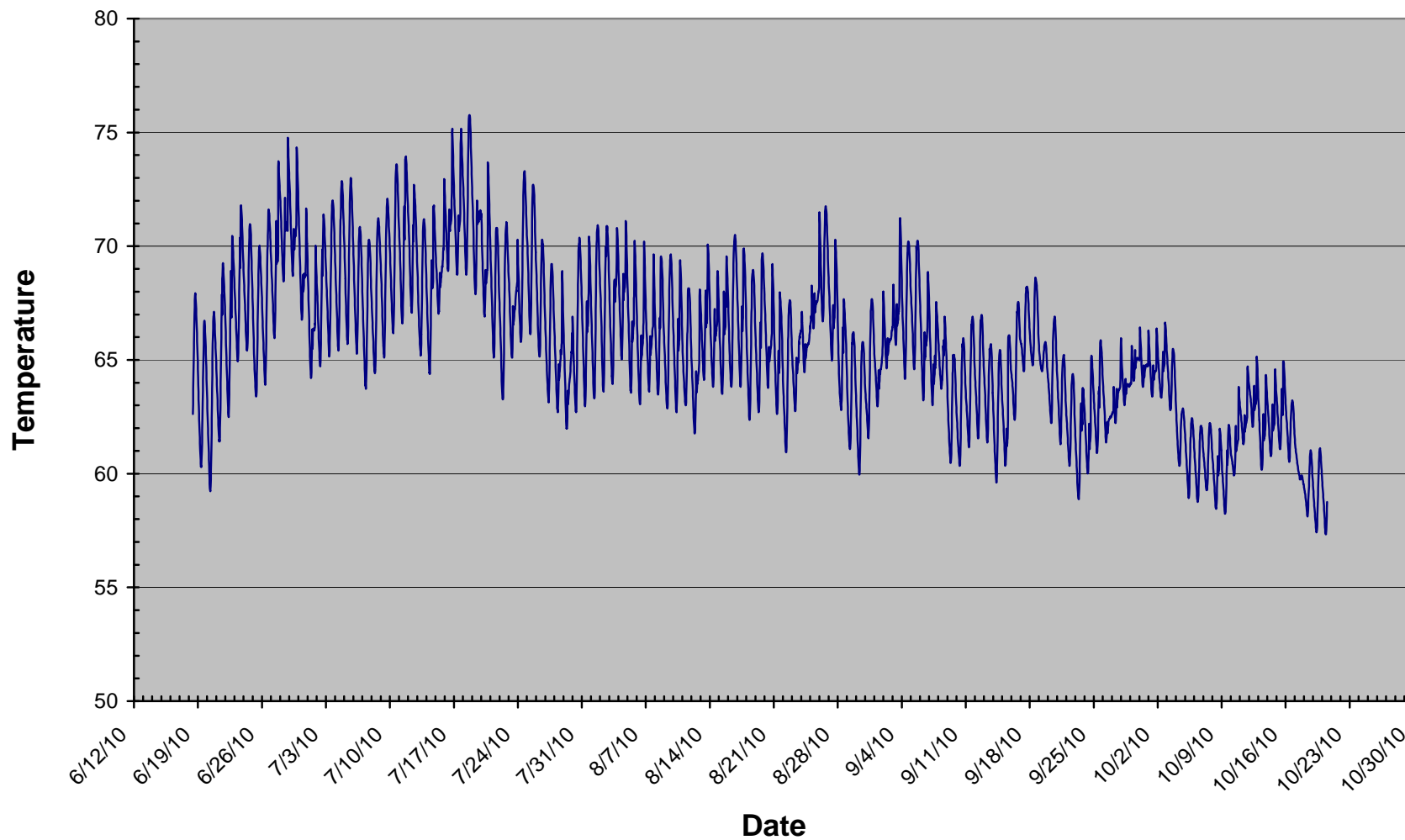


Figure SC-75. Monitoring Station Suisun Creek 7, 2010, water temperature.

### Suisun Creek 9.5 June - October 2010

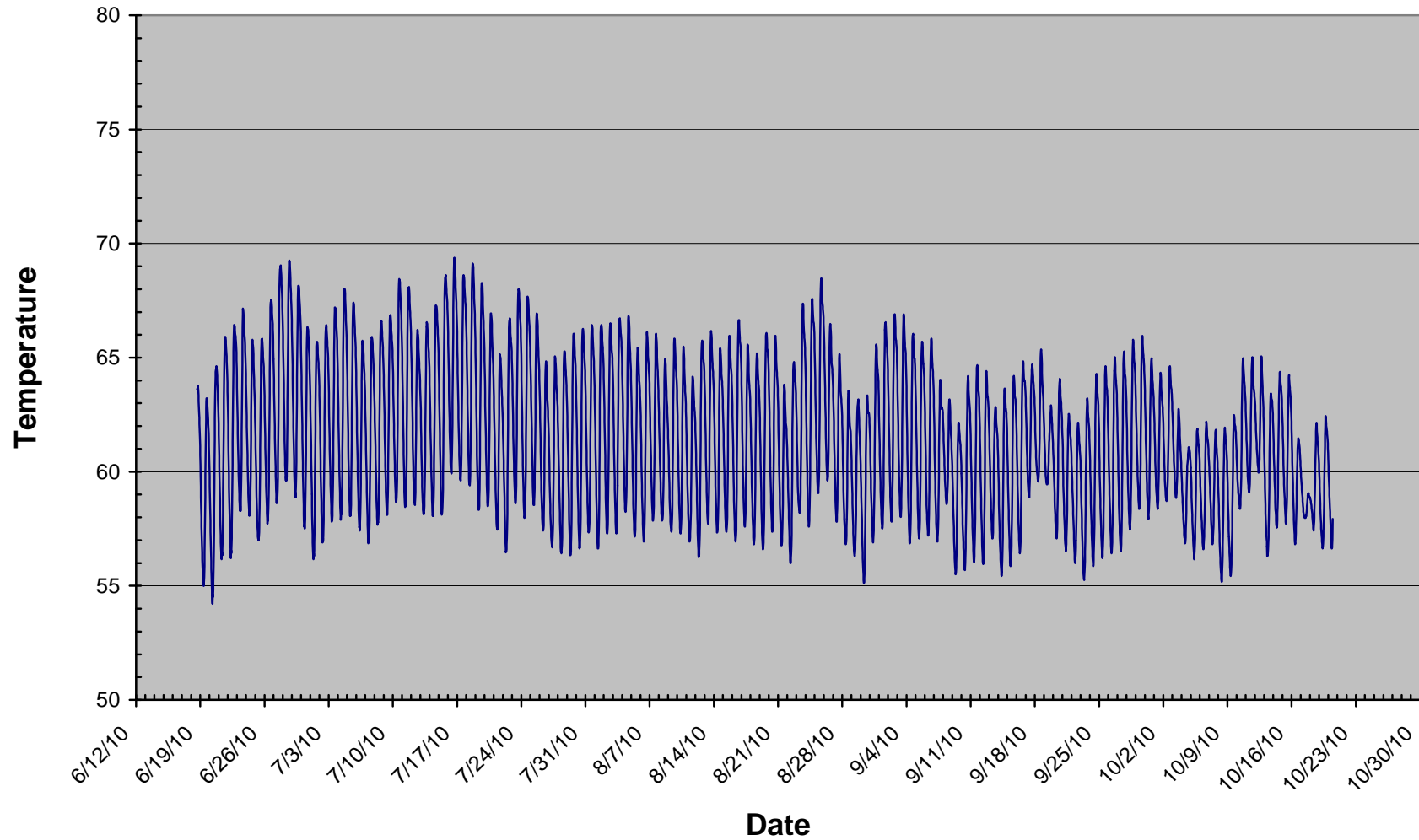


Figure SC-76. Monitoring Station Suisun Creek 9.5, 2010, water temperature.



### Suisun Creek 13 Air Temperature June - October 2010

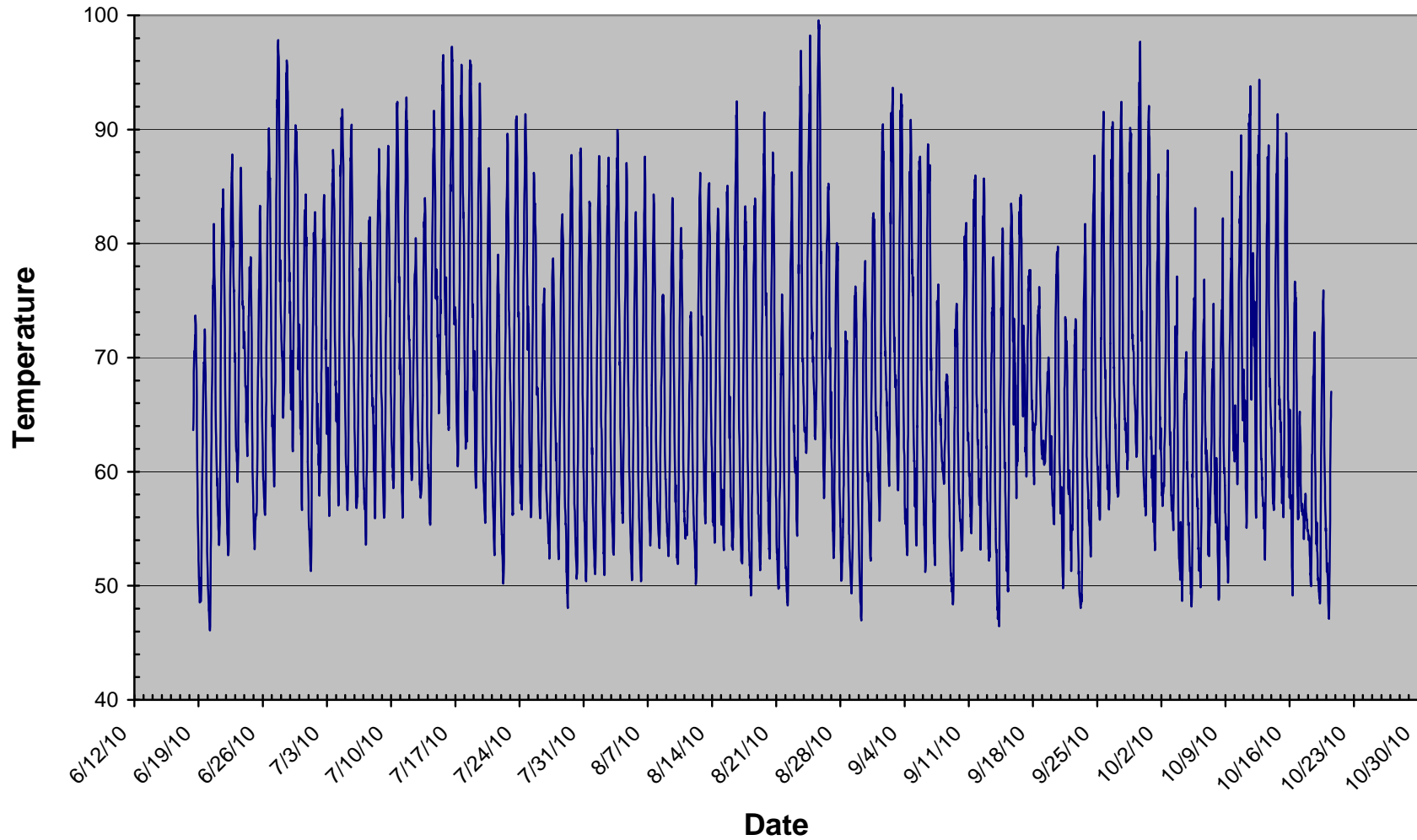


Figure SC-77. Monitoring Station Suisun Creek 13, 2010, air temperature.

Analysis of Summertime Stream Temperature Records for  
Suisun Creek, Wooden Valley Creek and White Creek  
2002 through 2010

Attachment 2  
Wooden Valley Creek Temperature Records

### Wooden Valley Creek 1 June - July 2002

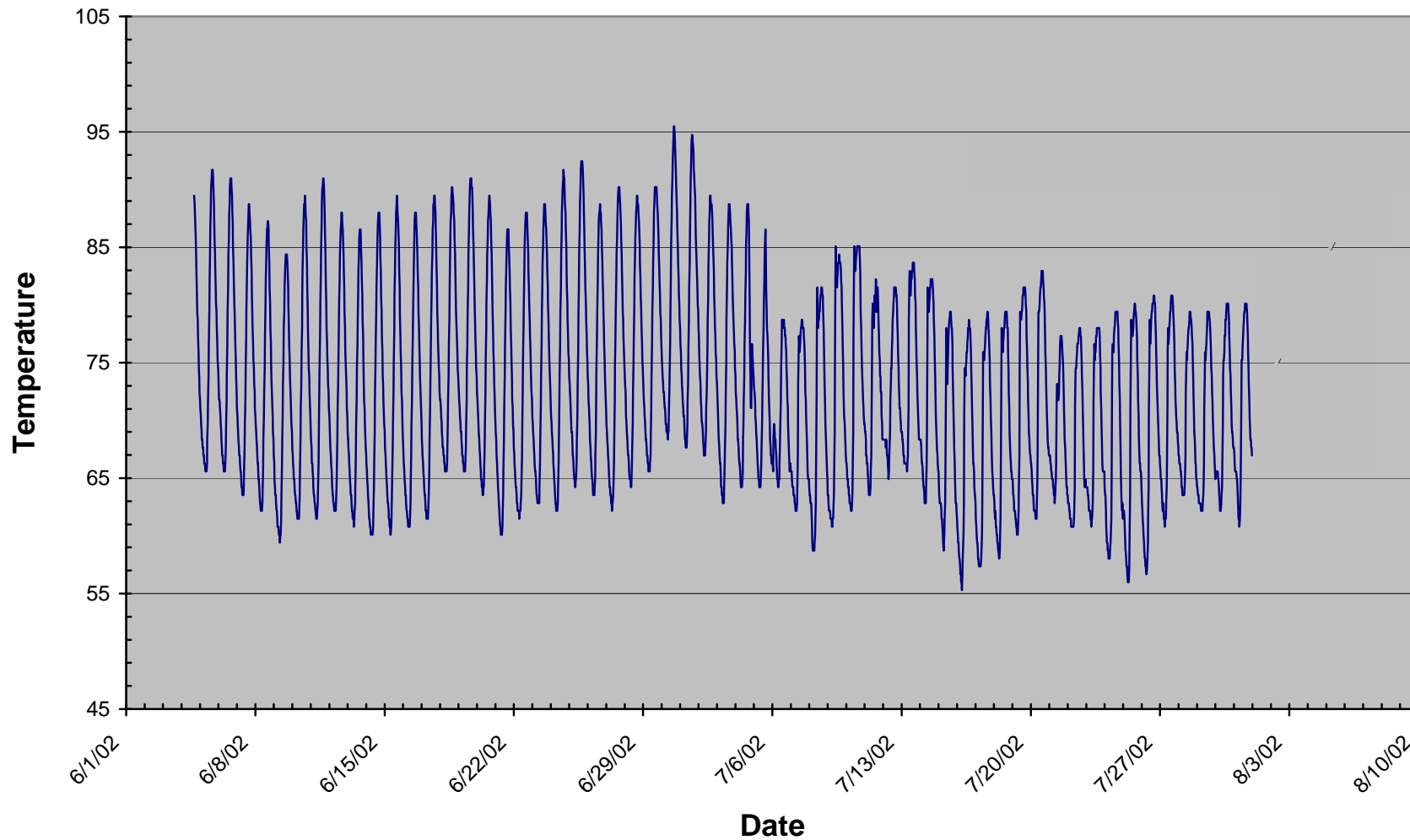


Figure WV-1. Wooden Valley 1, 2002. The channel was dry on August 1, 2002 when the instrument was removed.

### Wooden Valley Creek 2 June - November 2002

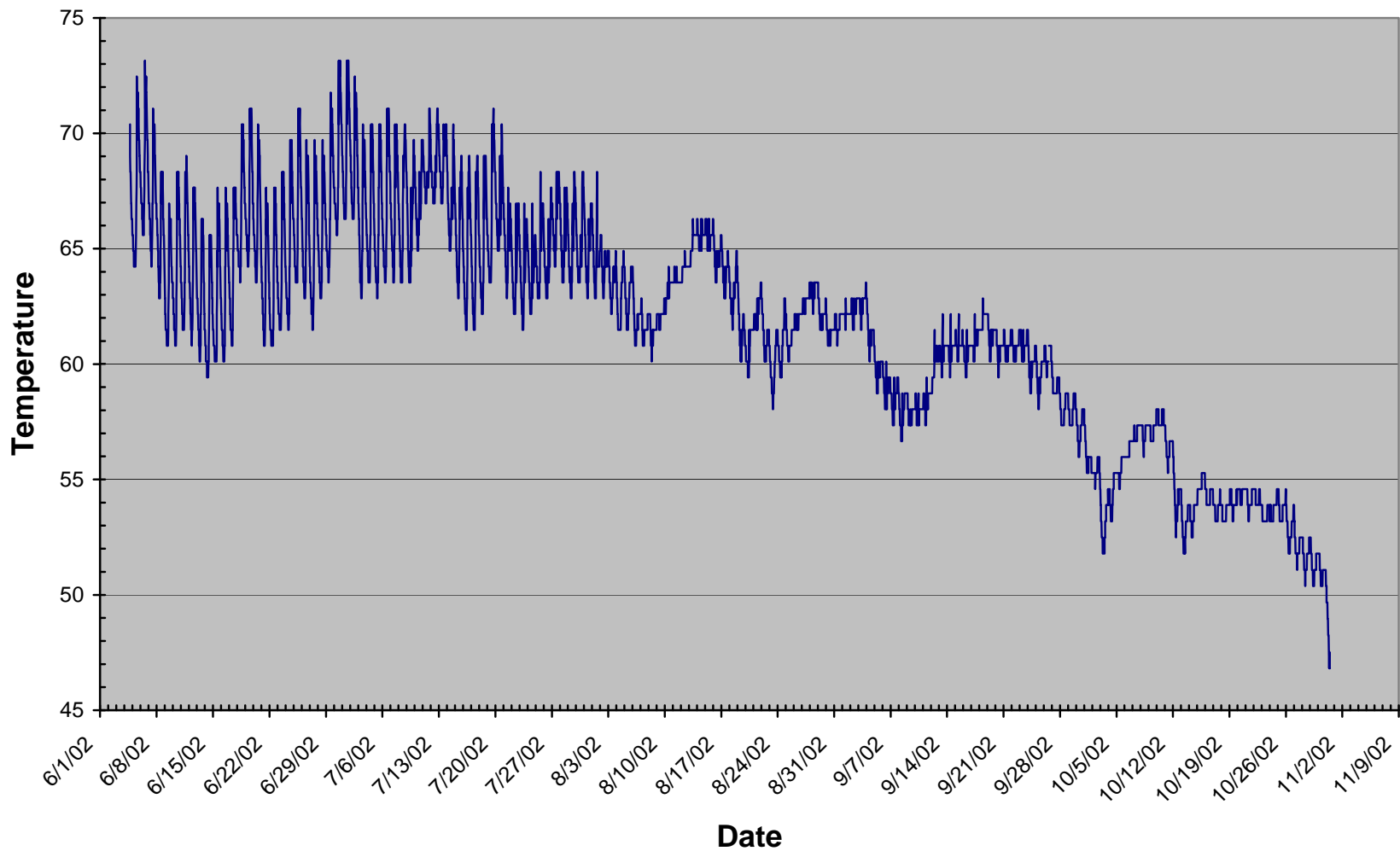


Figure WV-2. Wooden Valley 2, 2002.

### Wooden Valley Creek 3 June - November 2002

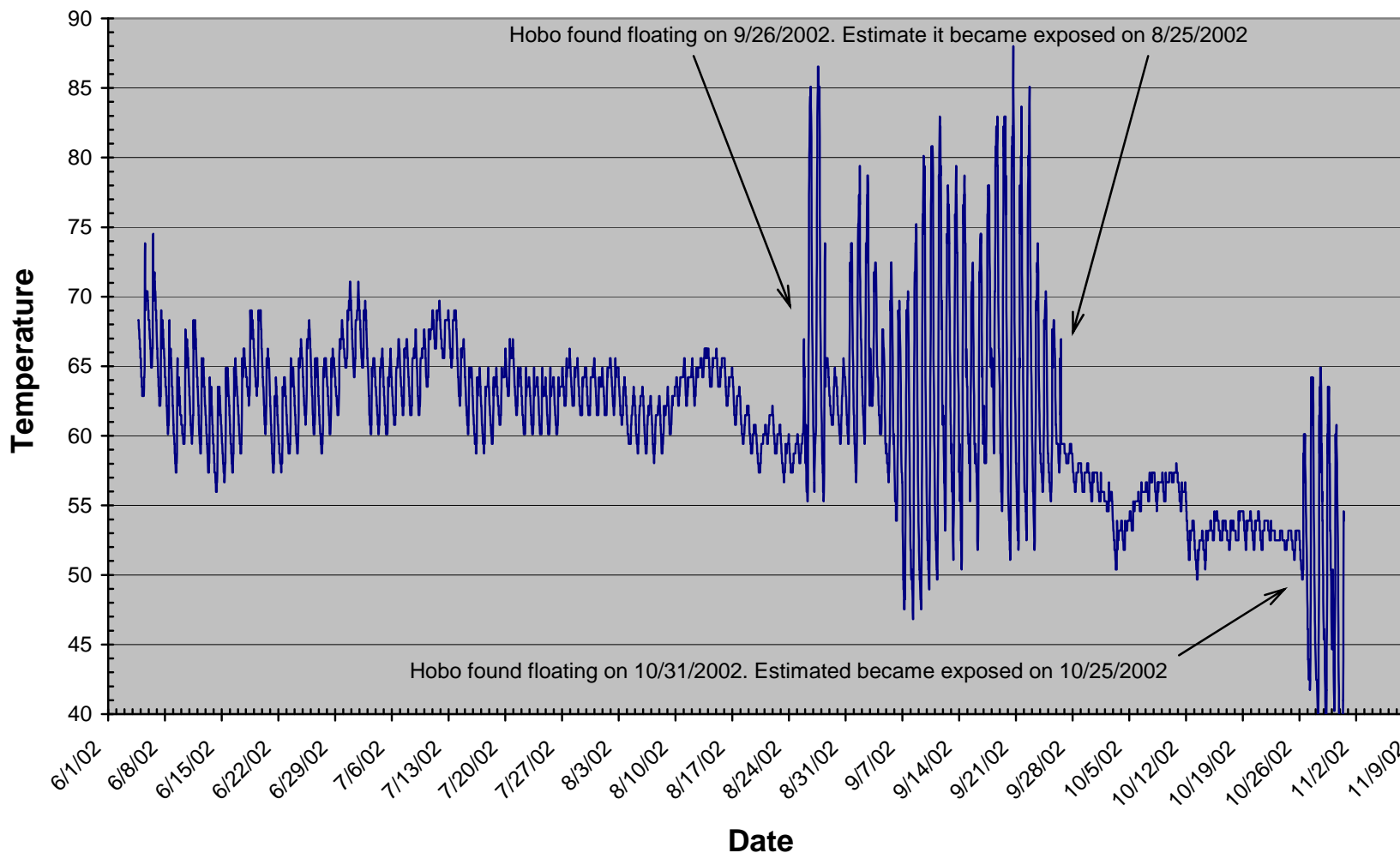


Figure WV-3. Wooden Valley 3, 2002. The Hobo Temp was found floating on 9/26/2002 and it is estimated that it began to float on 8/25/2002. The was again found floating on 10/31/2002, it is estimated that it started floating on 10/25/2002.

### Wooden Valley Creek 4 June - November 2002

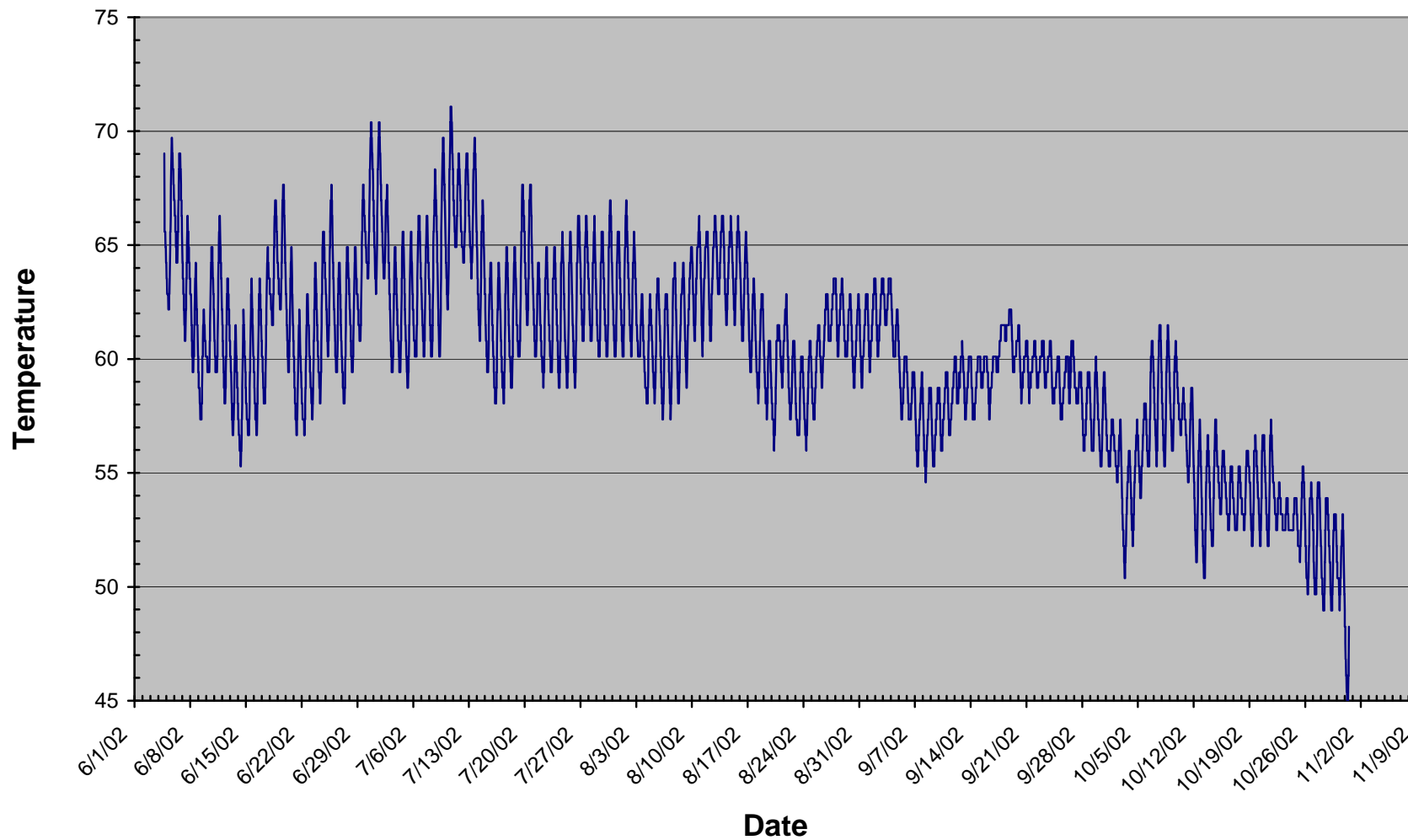


Figure WV-4. Wooden Valley 4, 2002.

### Wooden Valley Creek 5 June - November 2002

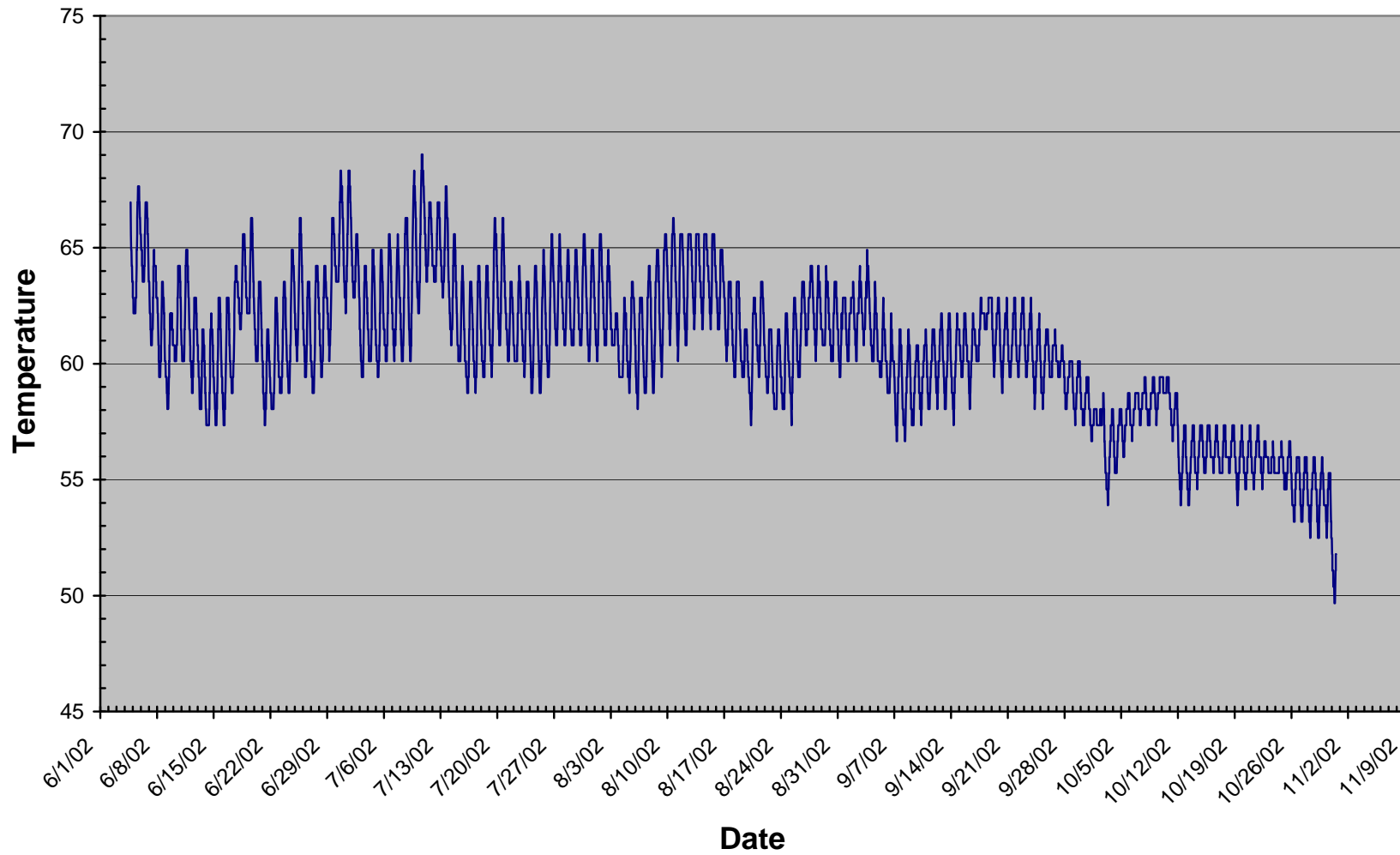


Figure WV-5. Wooden Valley 5, 2002.

### Wooden Valley Creek 7 AIR June - November 2002

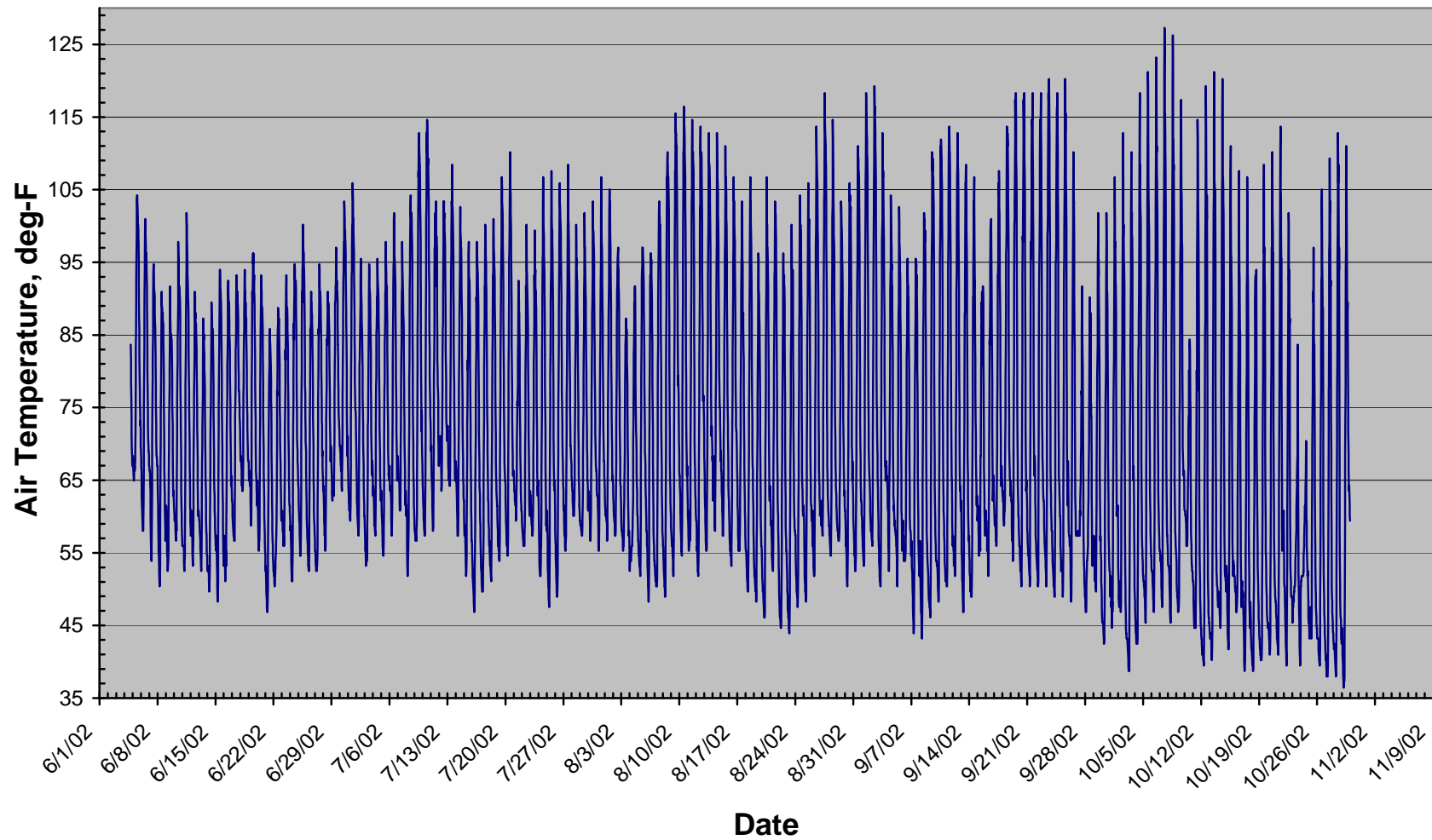


Figure WV-6. Wooden Valley 7 air temperature, 2002.



### Wooden Valley Creek 1 June - November 2003

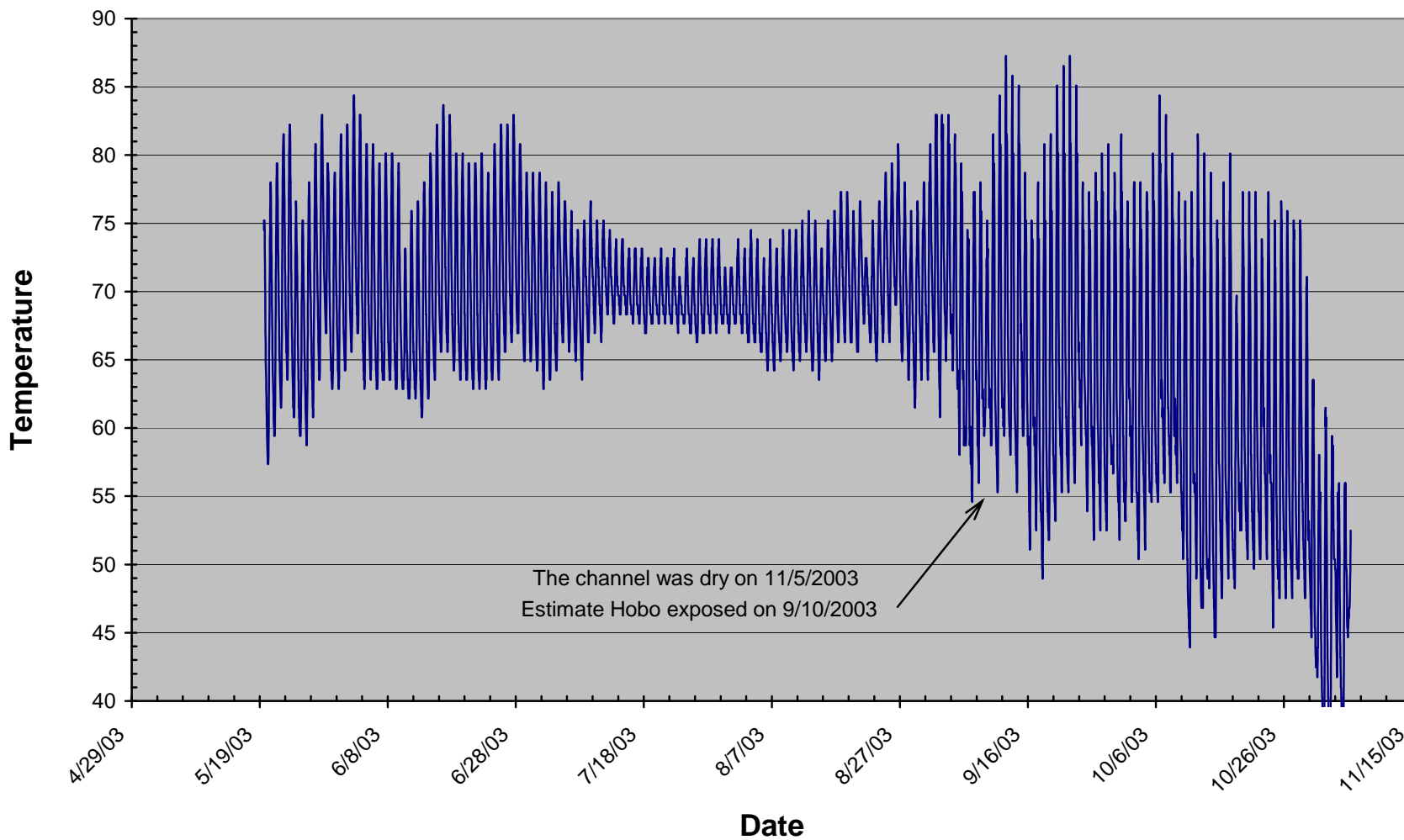


Figure WV-7. Wooden Valley 1, 2003.

### Wooden Valley Creek 2a June - November 2003

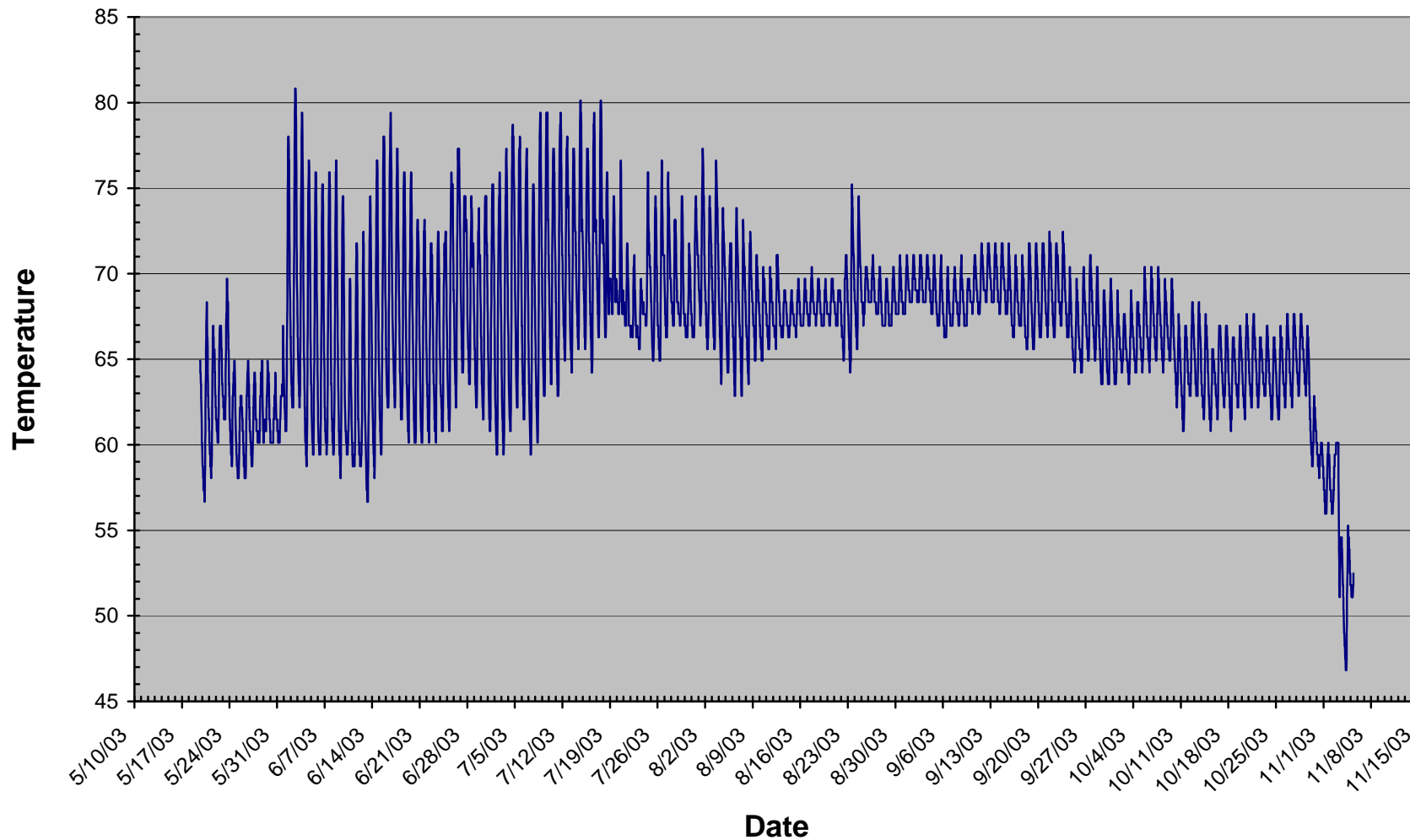


Figure WV-8. Wooden Valley 2a, 2003.

### Wooden Valley Creek 2 May - September 2003

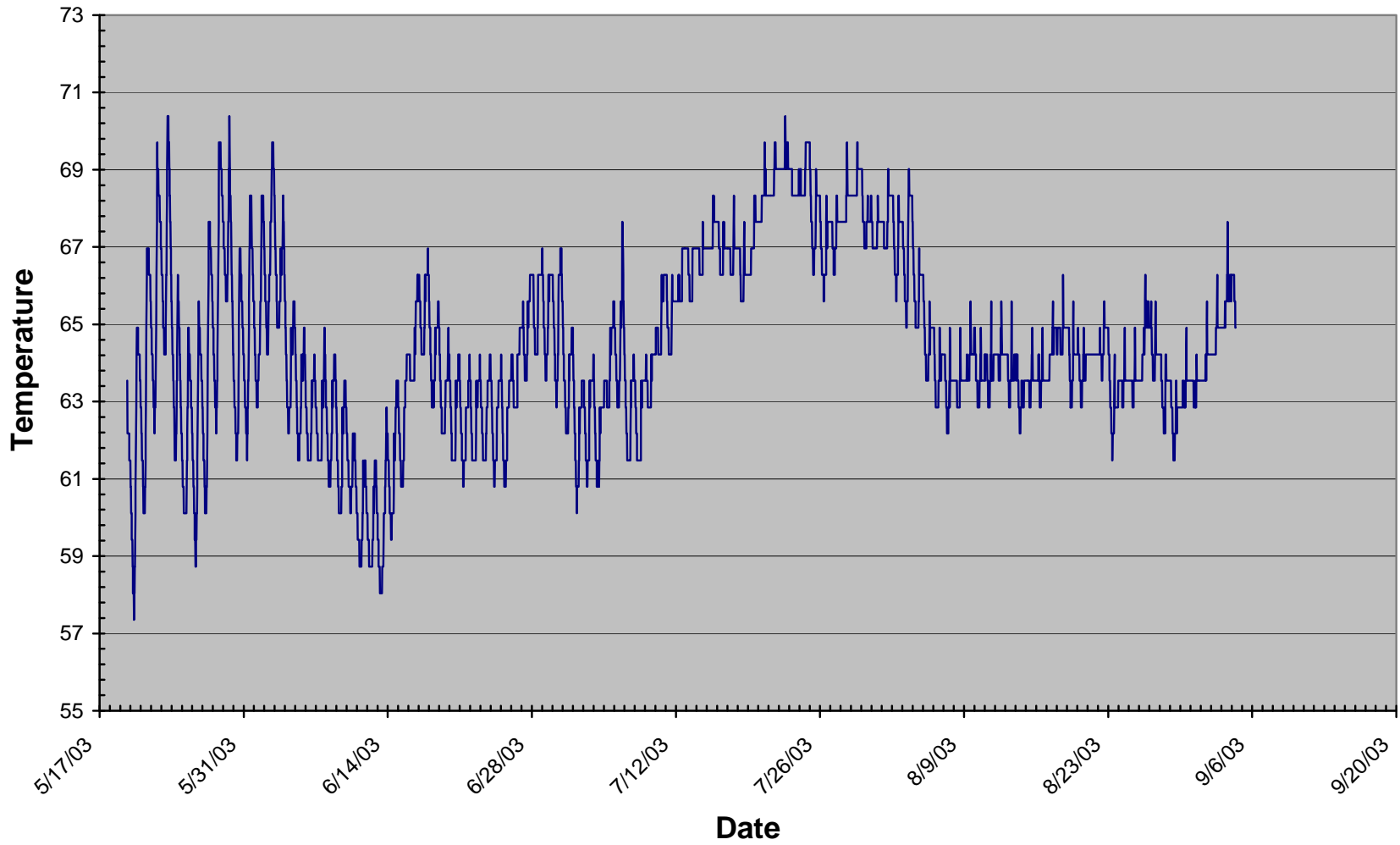


Figure WV-9. Wooden Valley 2, 2003.

### Wooden Valley Creek 3 June - November 2003

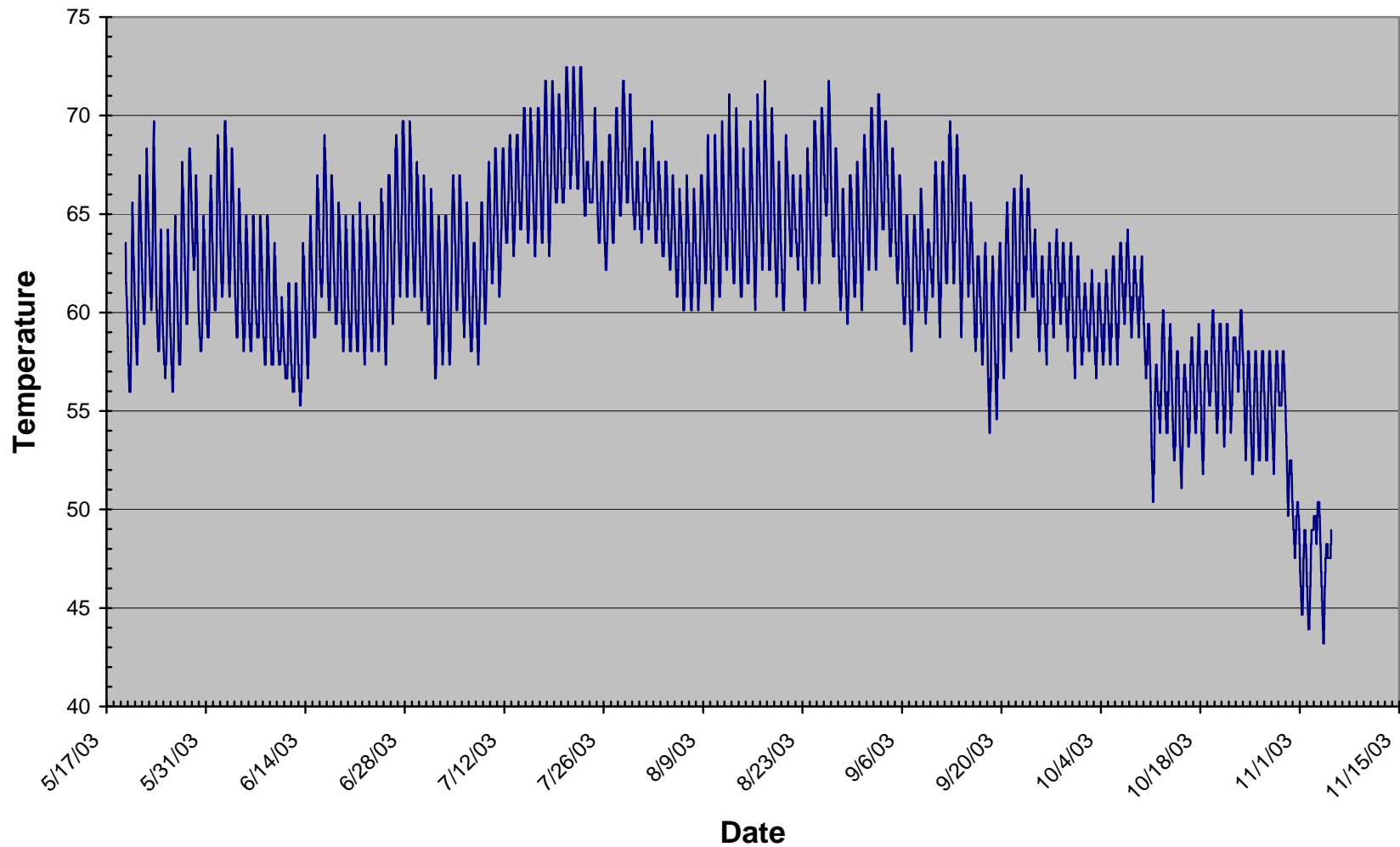


Figure WV-10. Wooden Valley 3, 2003.

### Wooden Valley Creek 4 June - November 2003

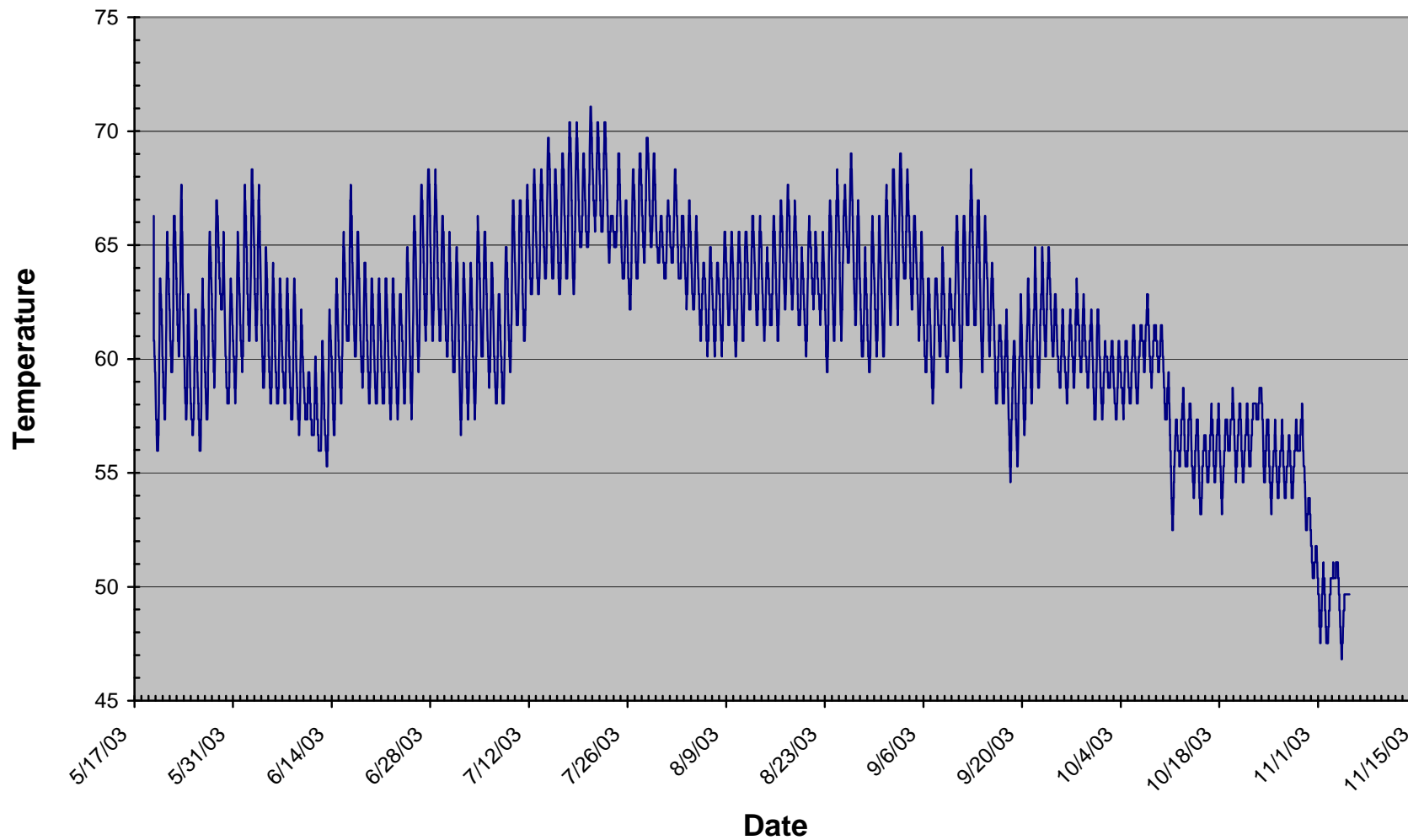


Figure WV-11. Wooden Valley 4, 2003.

### Wooden Valley Creek 5 June - November 2003

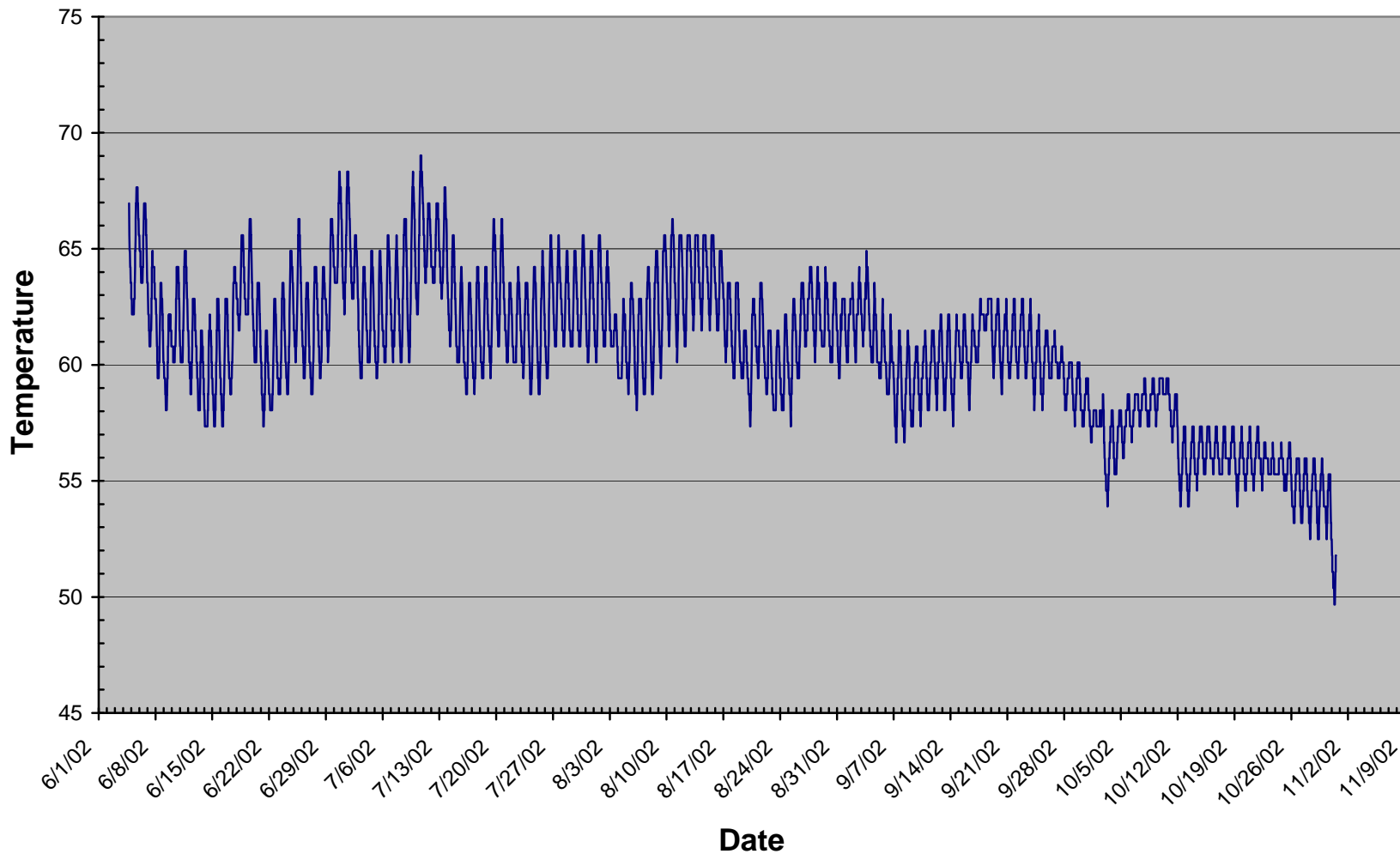


Figure WV-12. Wooden Valley 5, 2003.

### Wooden Valley Creek 6 June - November 2003

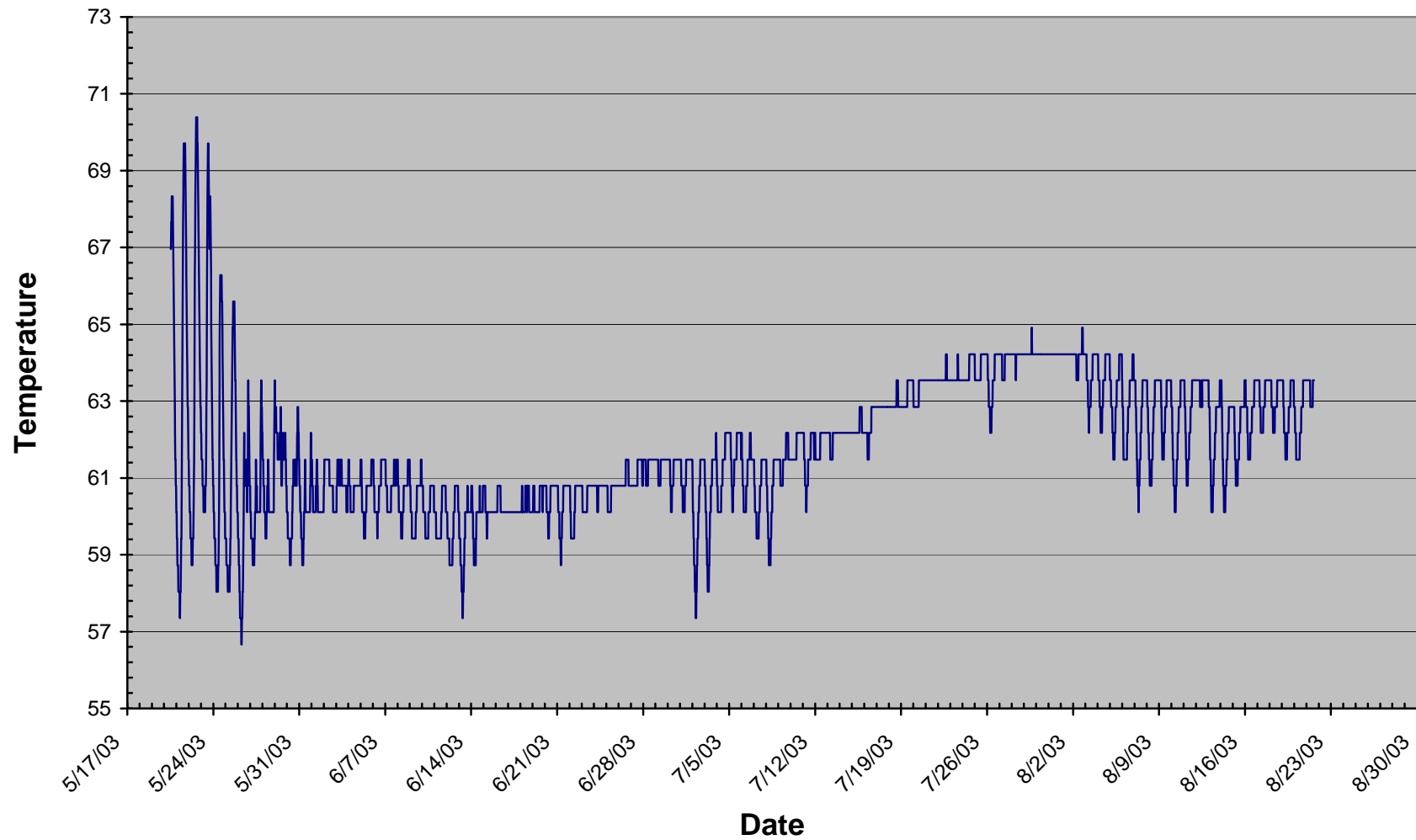


Figure WV-13. Wooden Valley 6, 2003.

### Wooden Valley Creek 7 AIR June - November 2003

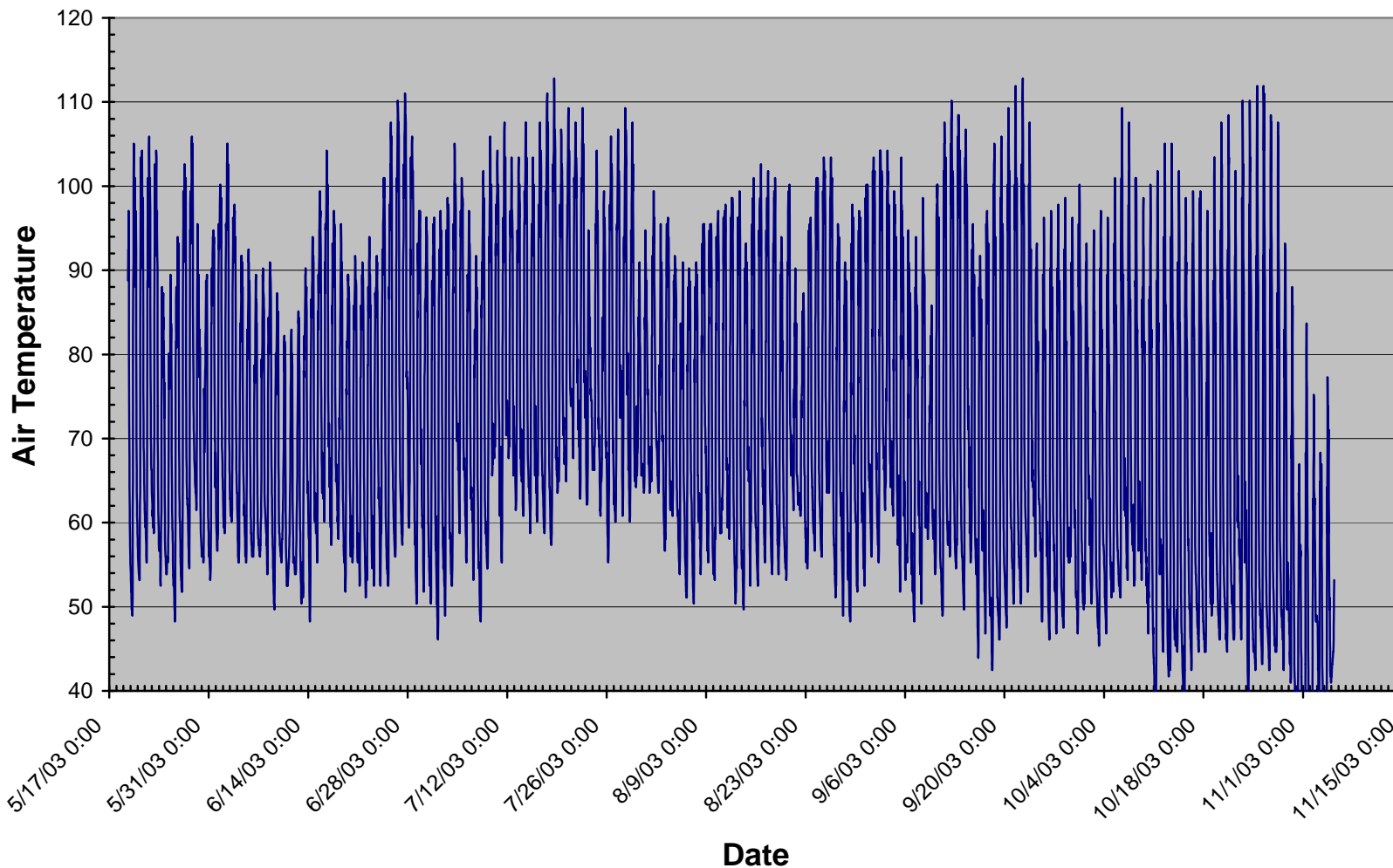


Figure WV-14. Wooden Valley 7 Air Temperature, 2003.



### Wooden Valley 1 July to September 2005

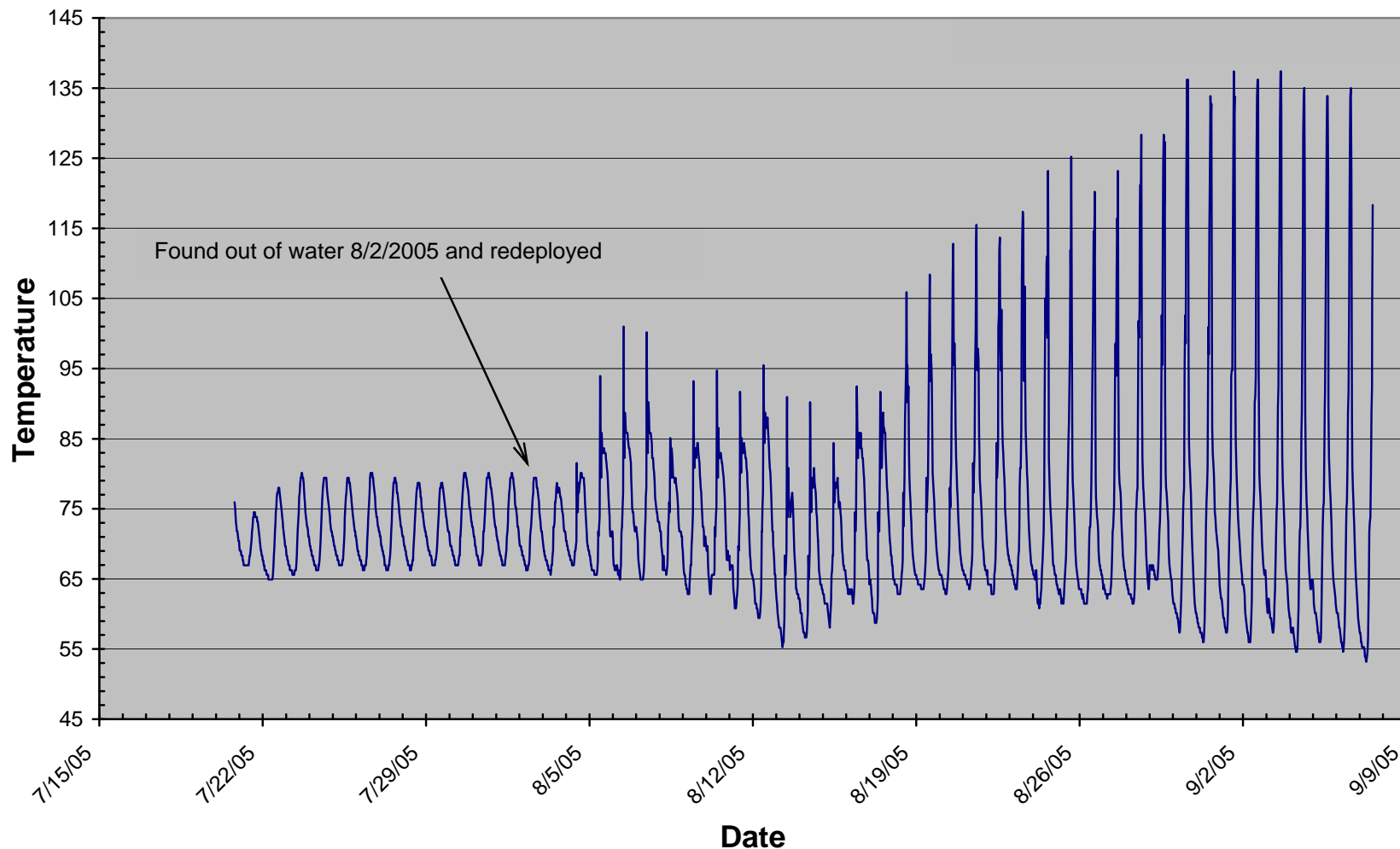


Figure WV-15. Wooden Valley 1, 2005. Channel was dry on 9/7/2005 when instrument was removed.

### Wooden Valley 2B September - October 2005

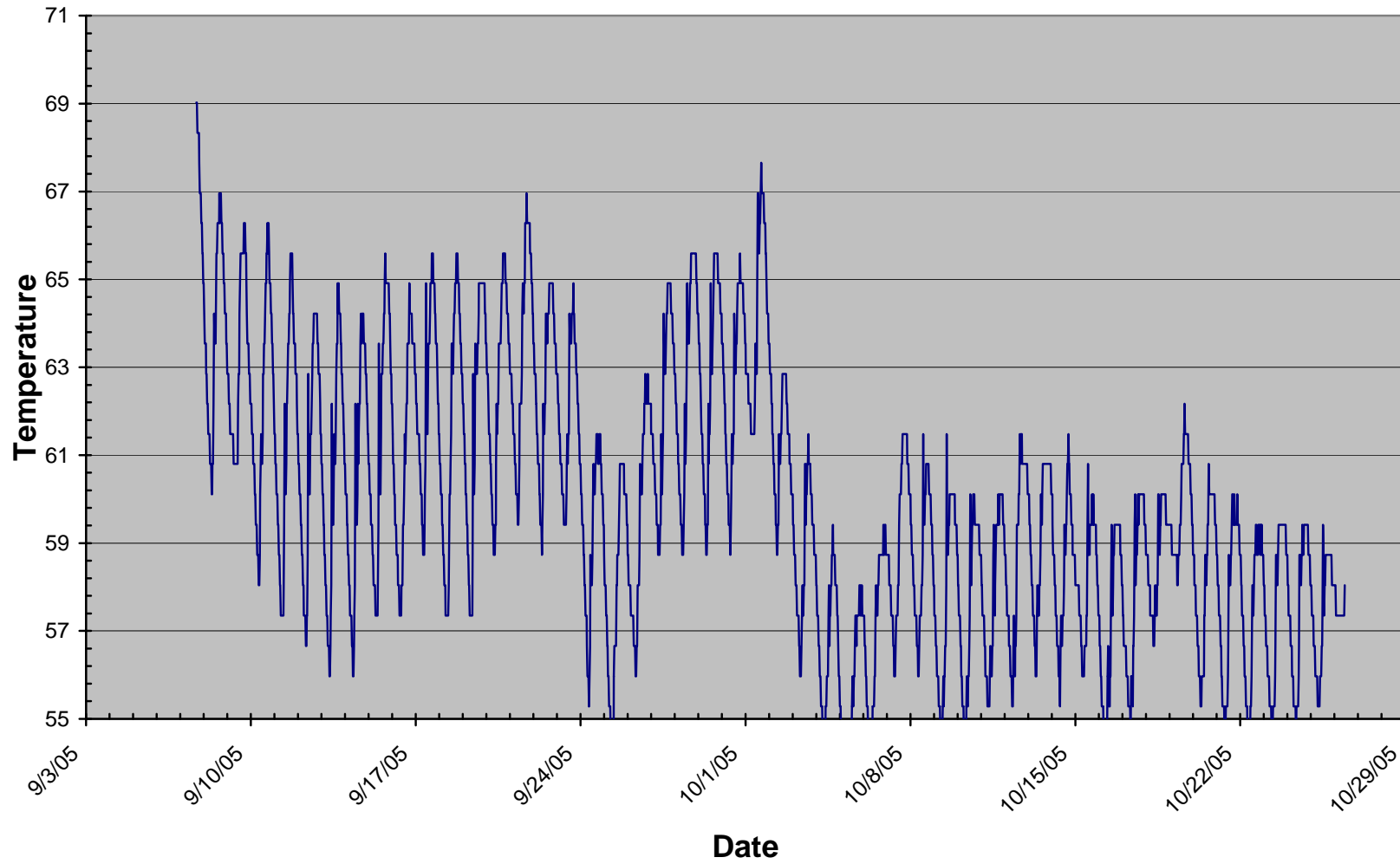


Figure WV-16. Wooden Valley 2b, 2005

### Wooden Valley 3 July to October 2005

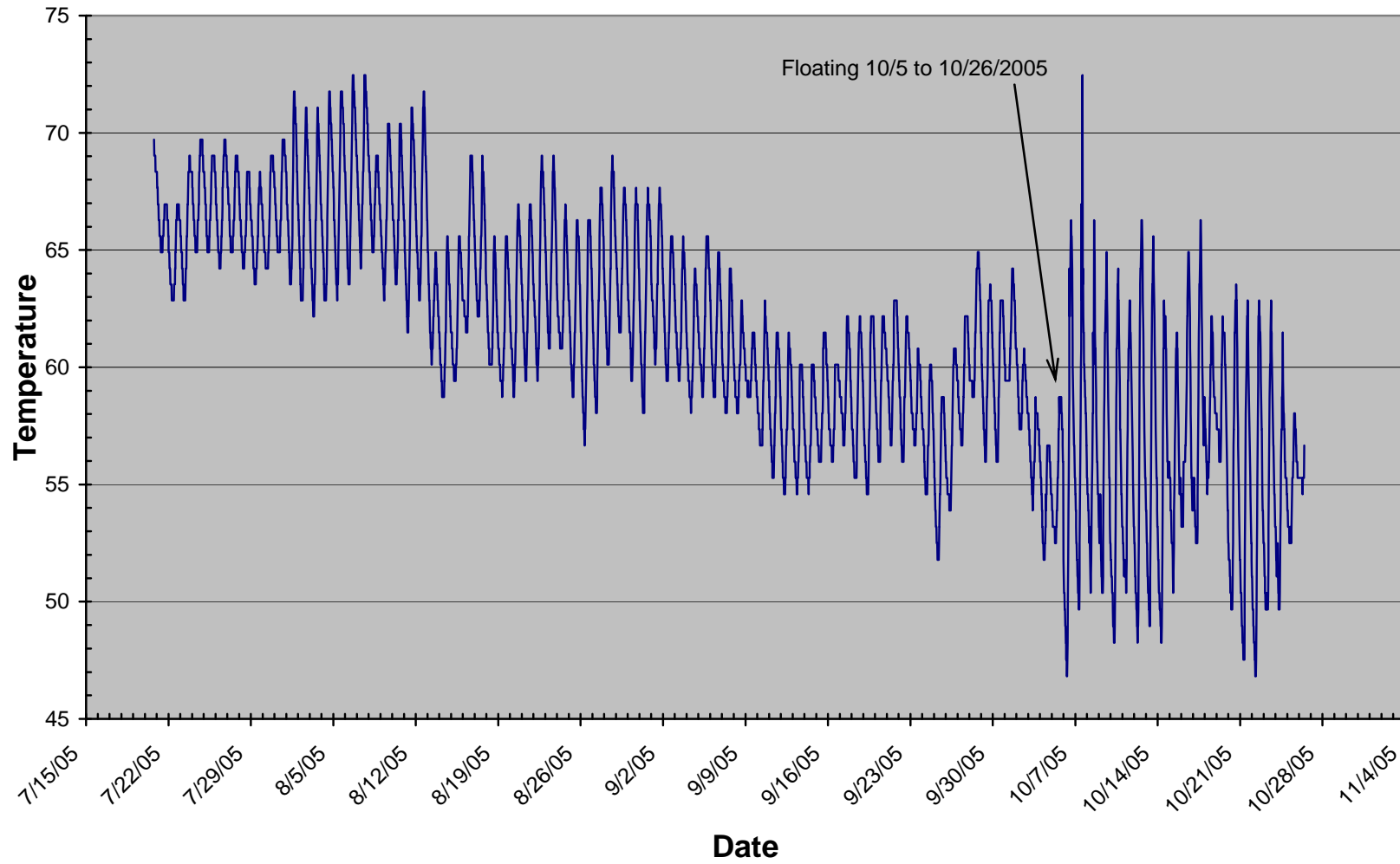


Figure WV-17. Wooden Valley 3, 2005

### Wooden Valley 4B July to October, 2005

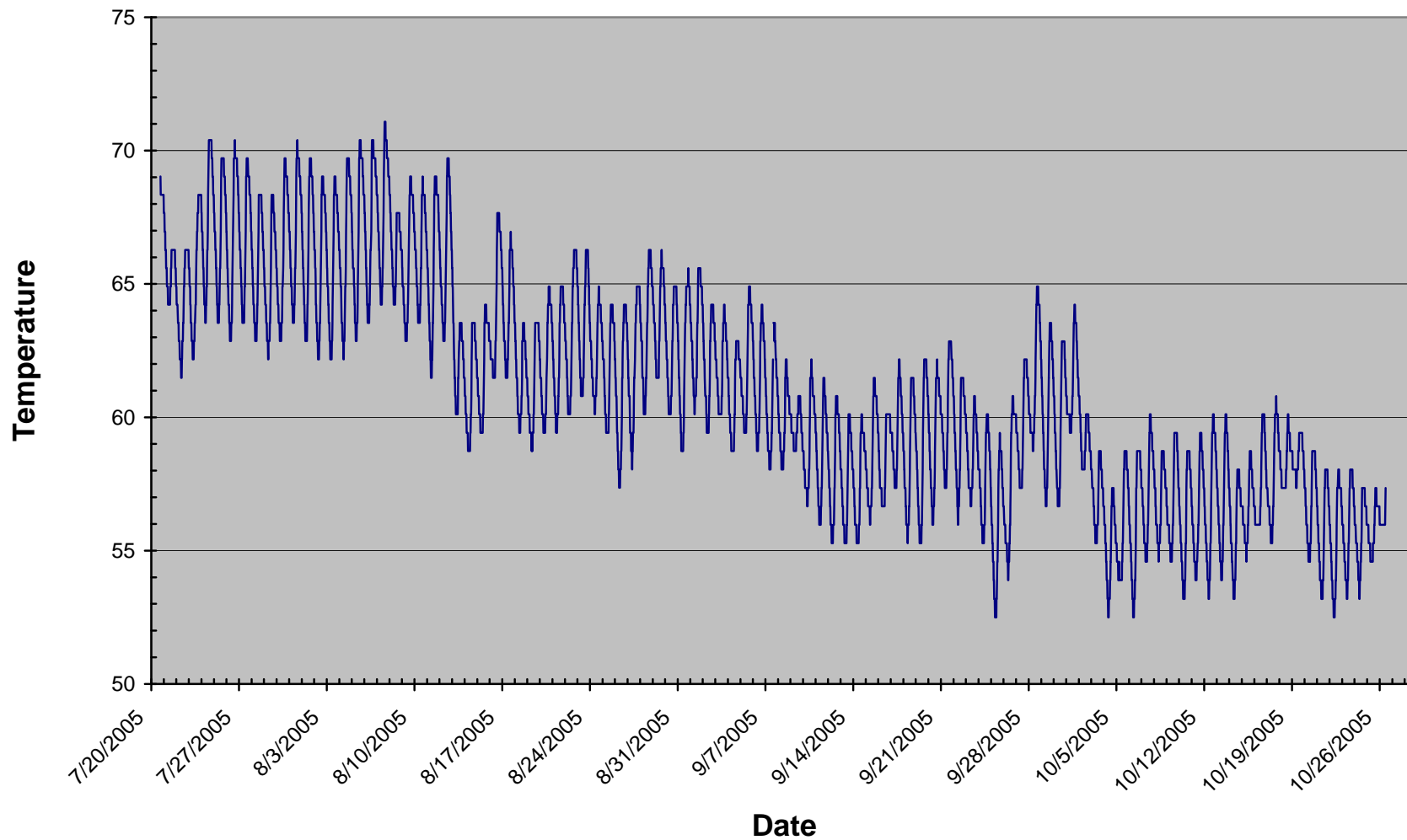


Figure WV-18. Wooden Valley 4b, 2005

### Wooden Valley 4A July - November 2005

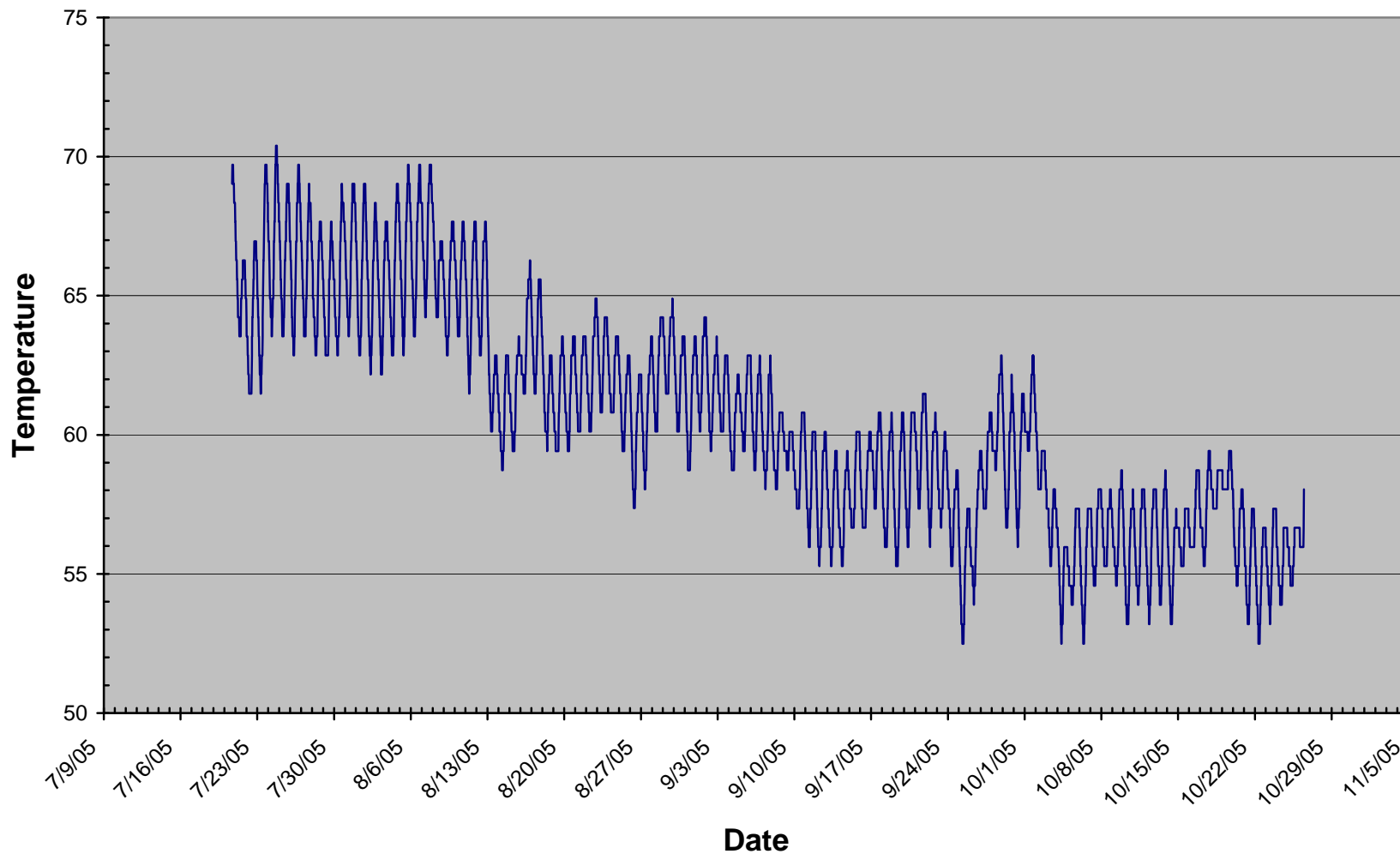


Figure WV-19. Wooden Valley 4a, 2005

### Wooden Valley 5 June - November 2005

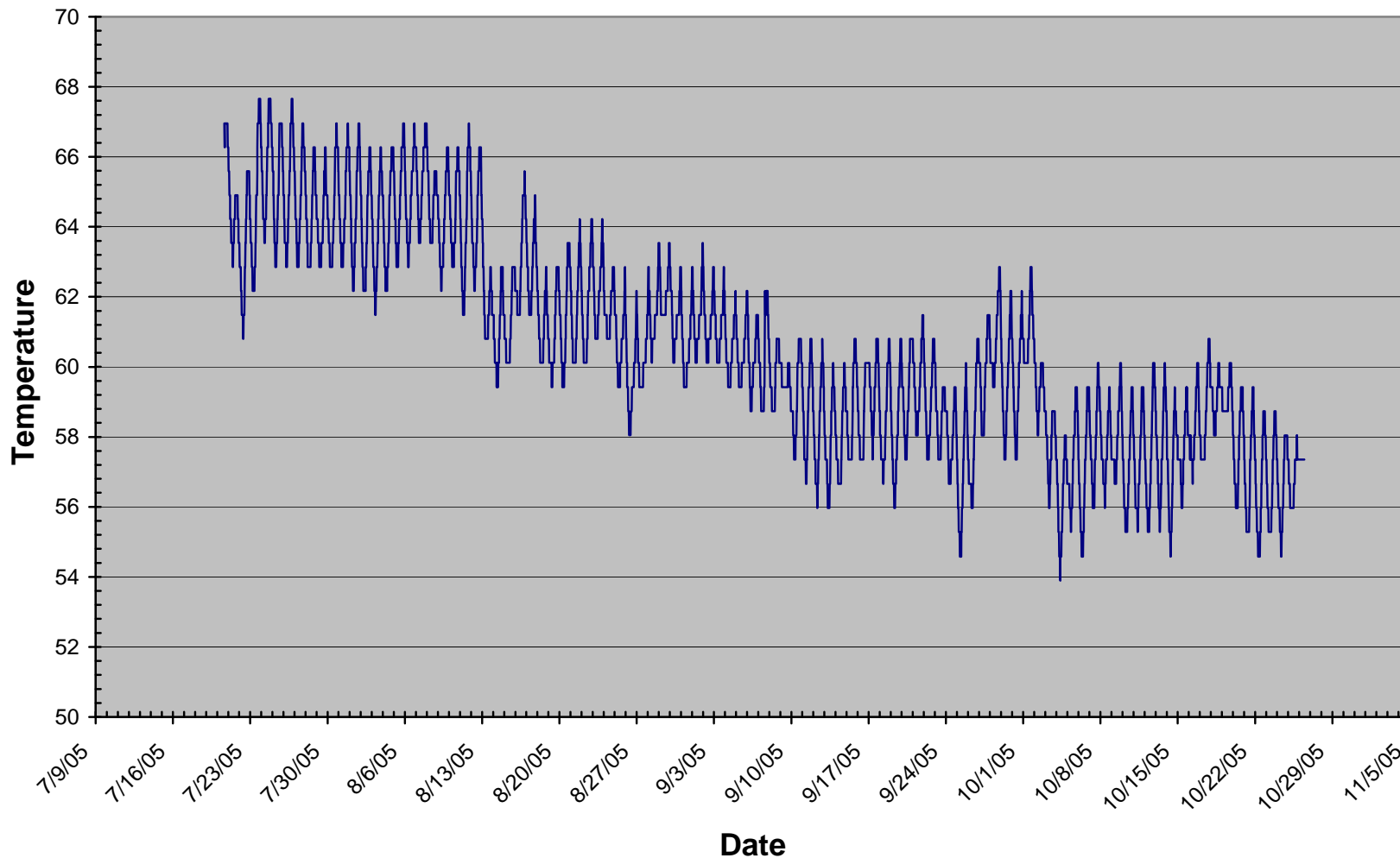


Figure WV-20. Wooden Valley 5, 2005

### Wooden Valley 6 July to October 2005

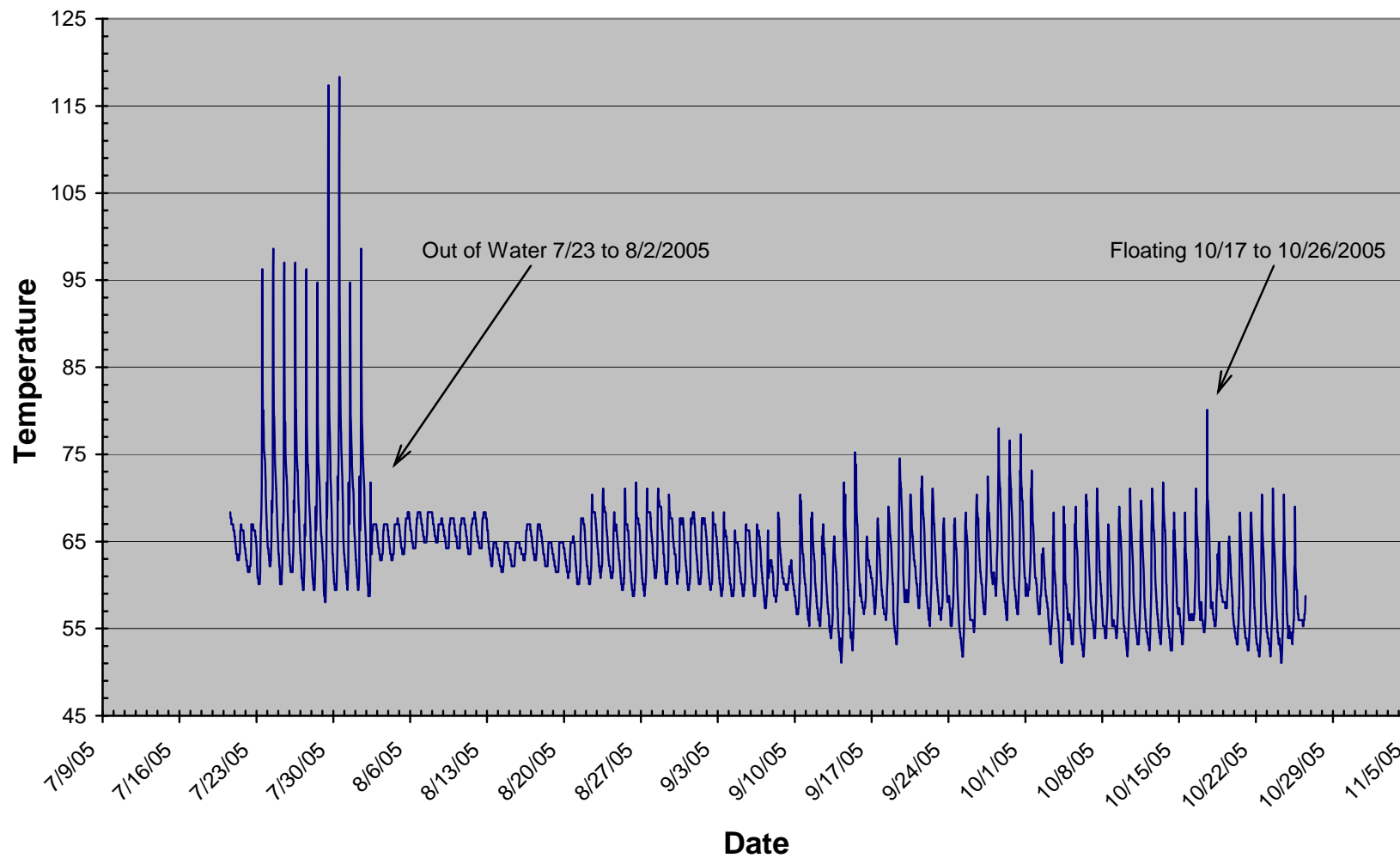


Figure WV-21. Wooden Valley 6, 2005

### Wooden Valley 7 Air Temperature July - October 2005

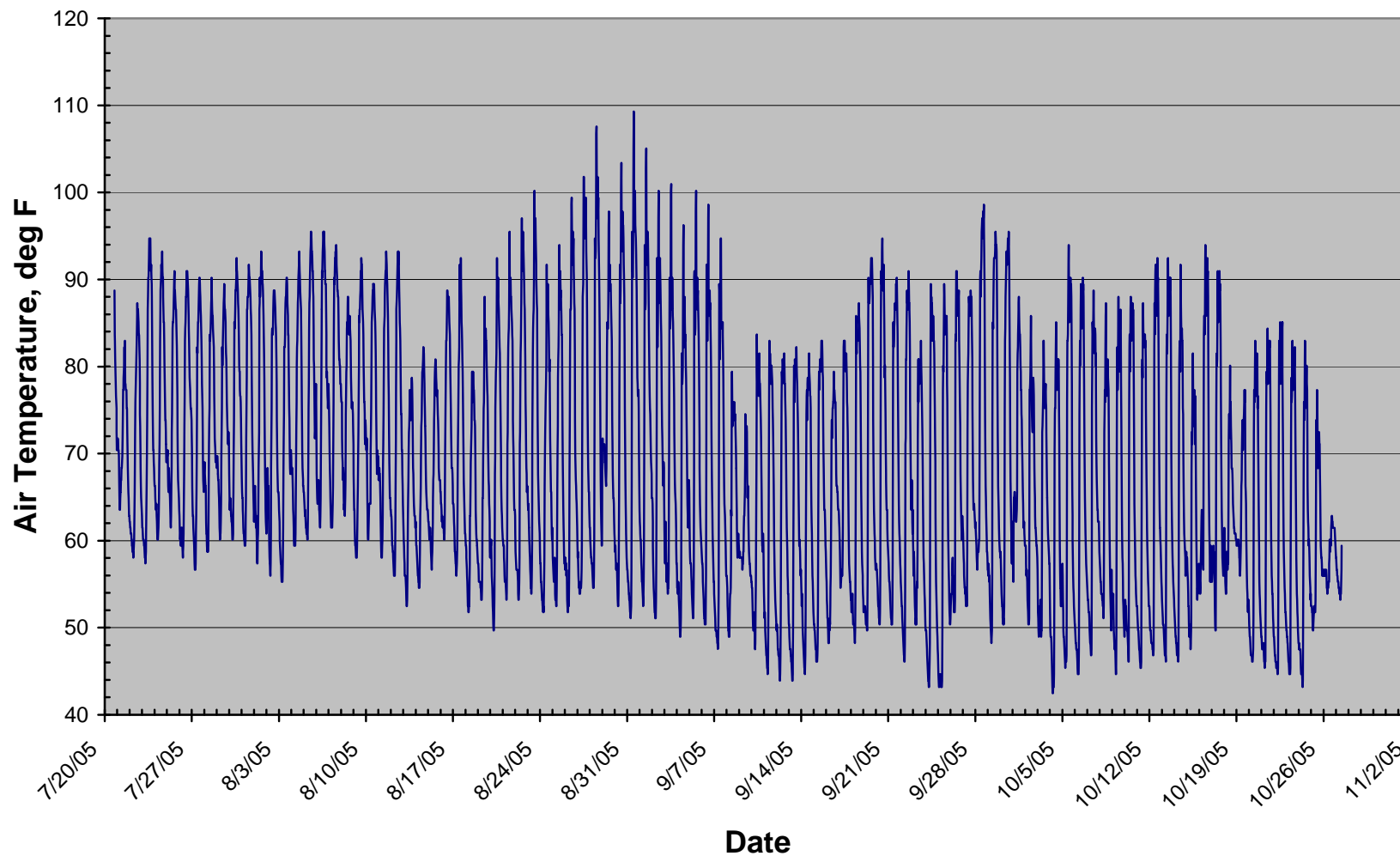


Figure WV-22. Wooden Valley 7, 2005



### Wooden Valley 1 June - October 2006

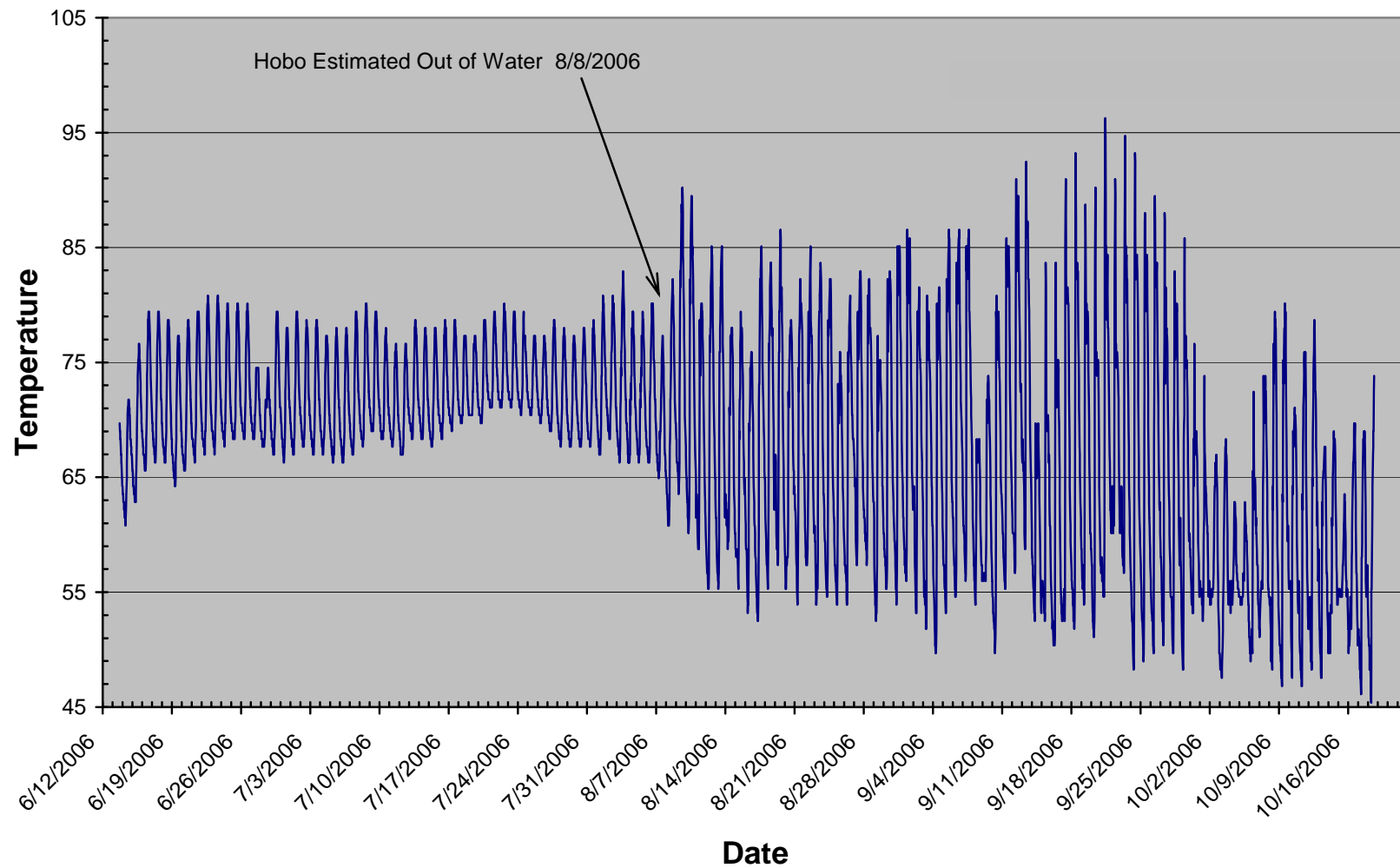


Figure WV-23. Wooden Valley 1, 2006

### Wooden Valley 2A June - October 2006

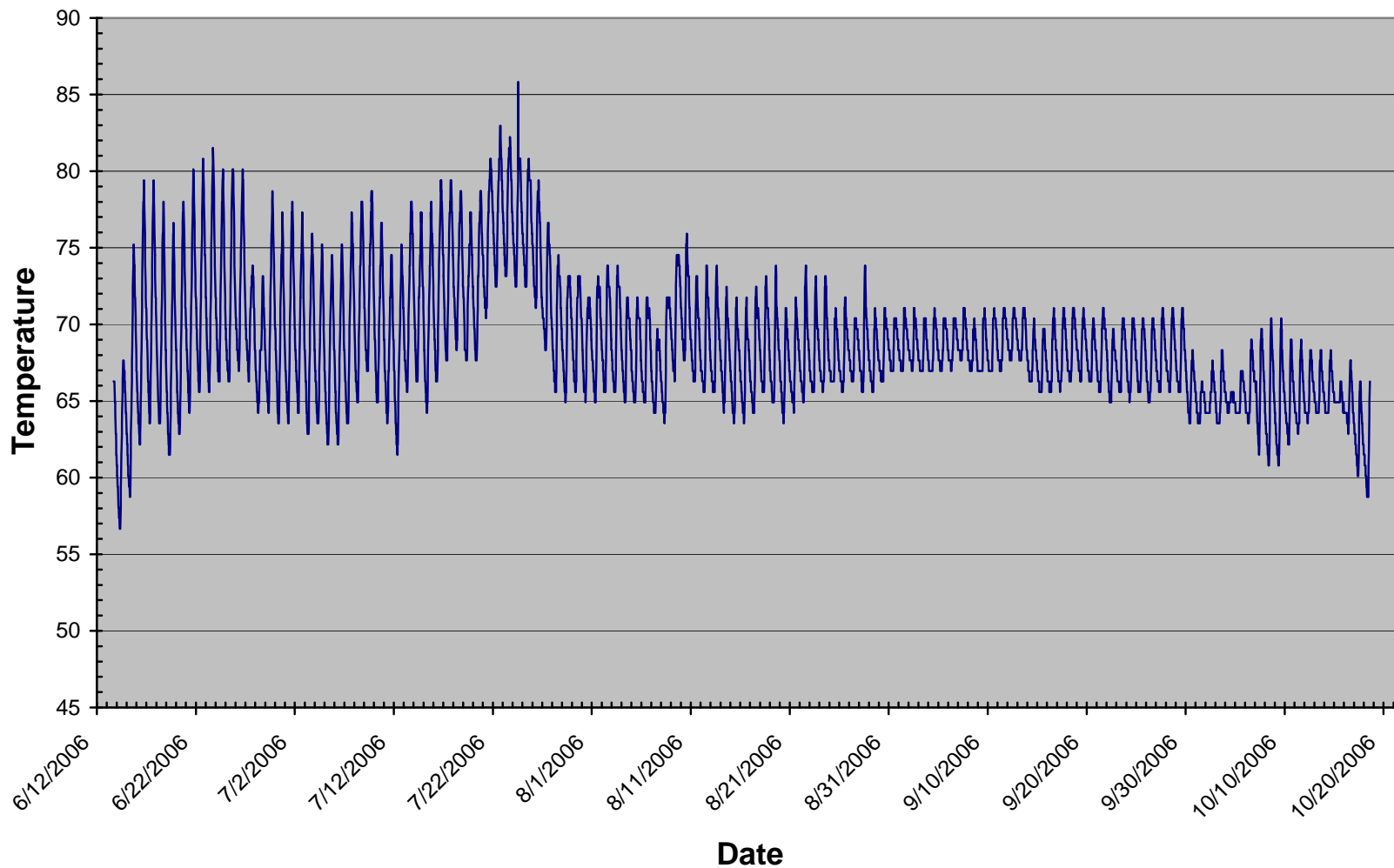


Figure WV-24. Wooden Valley 2a, 2006

### Wooden Valley 2B June - October 2006

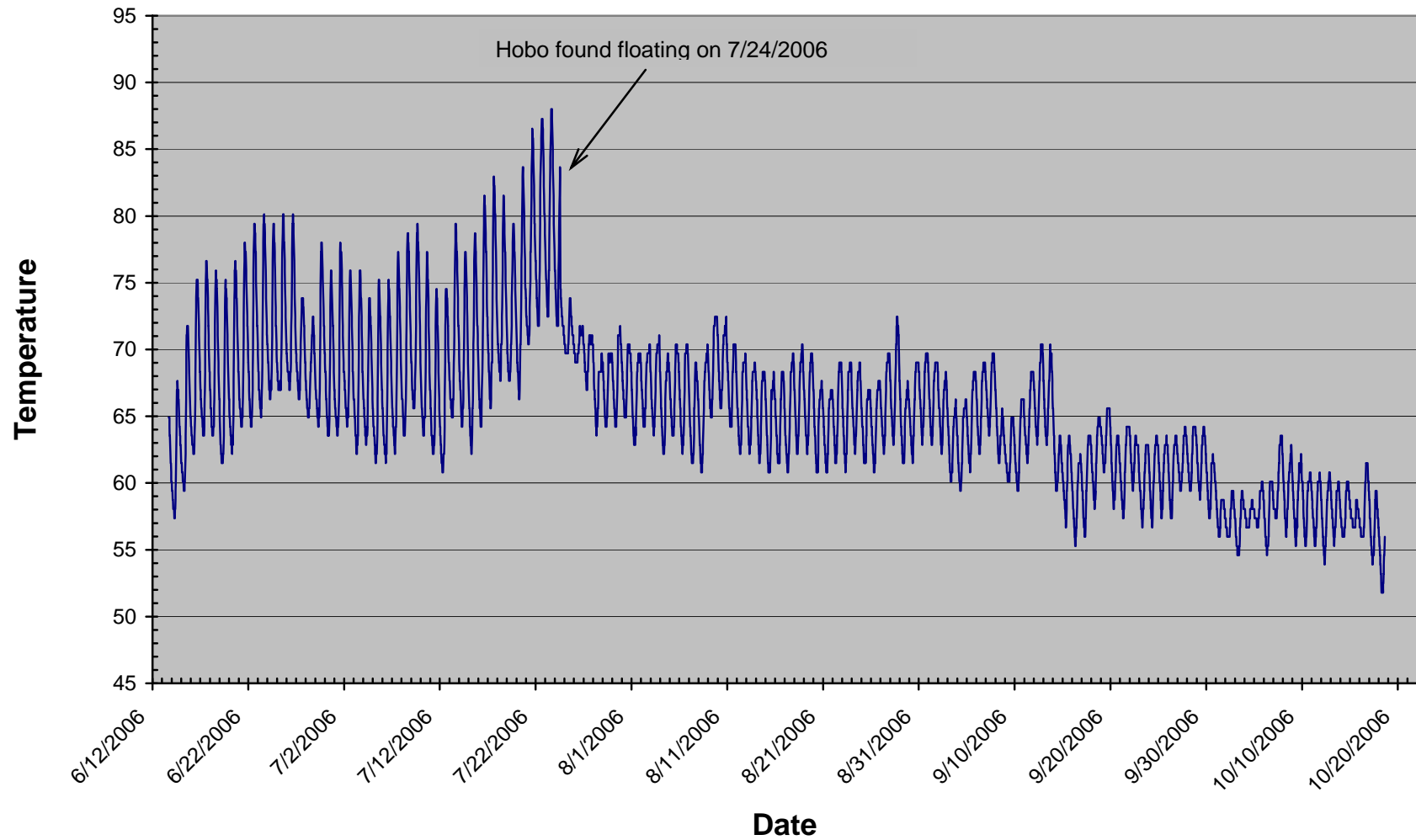


Figure WV-25. Wooden Valley 2b, 2006

### Wooden Valley 3 June - October 2006

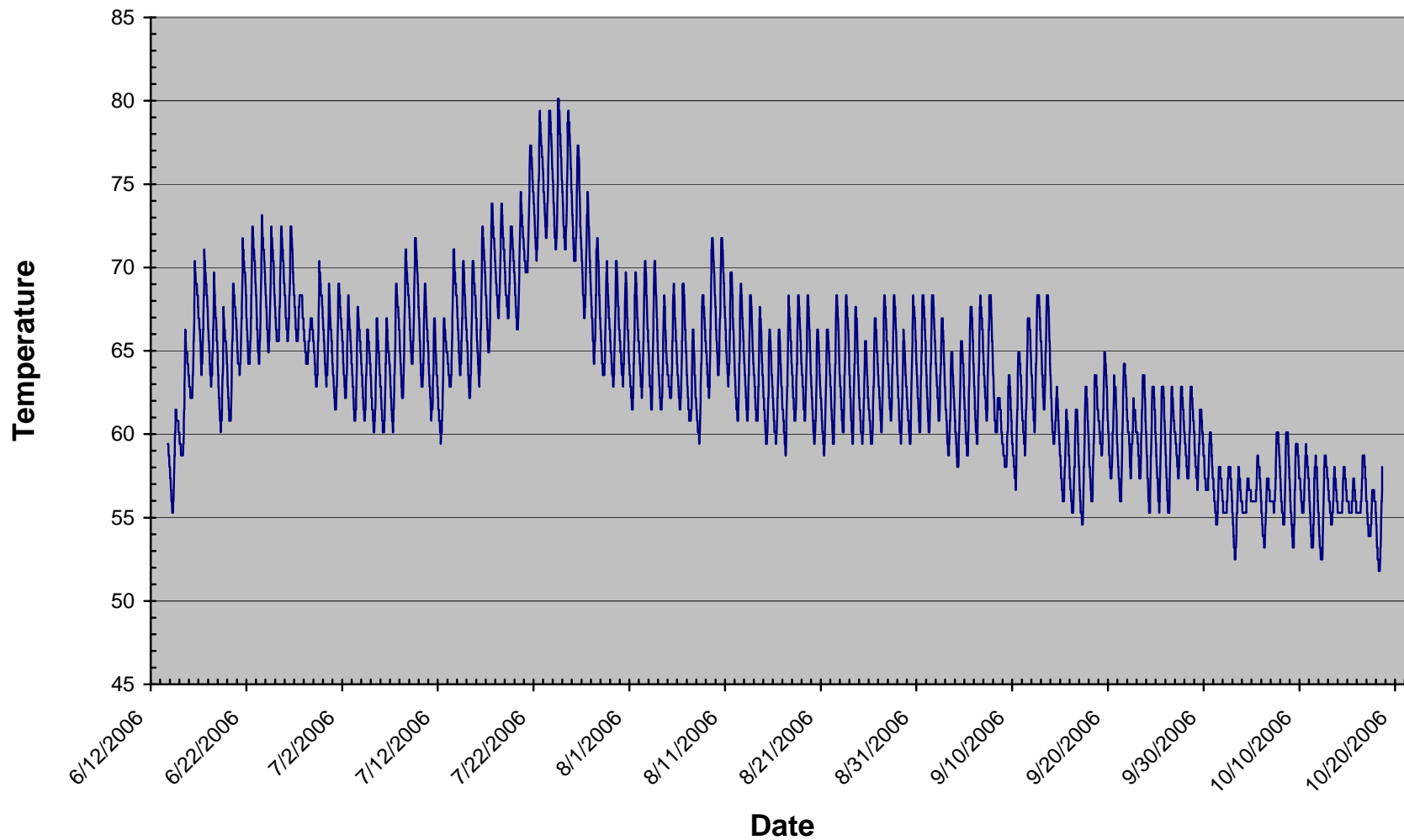


Figure WV-26. Wooden Valley 3, 2006

### Wooden Valley 4B June - October 2006

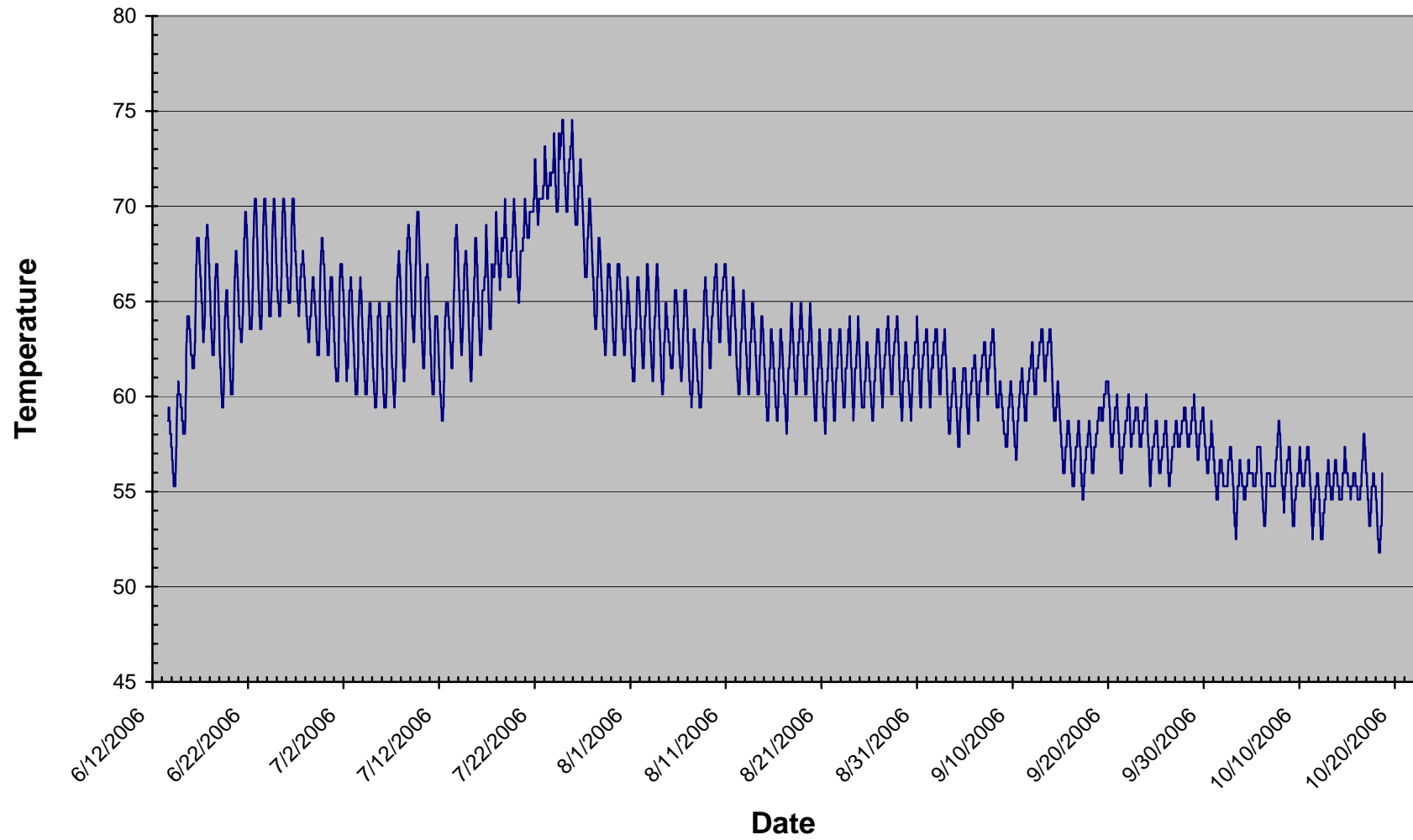


Figure WV-27. Wooden Valley 4b, 2006

### Wooden Valley 4A June - October 2006

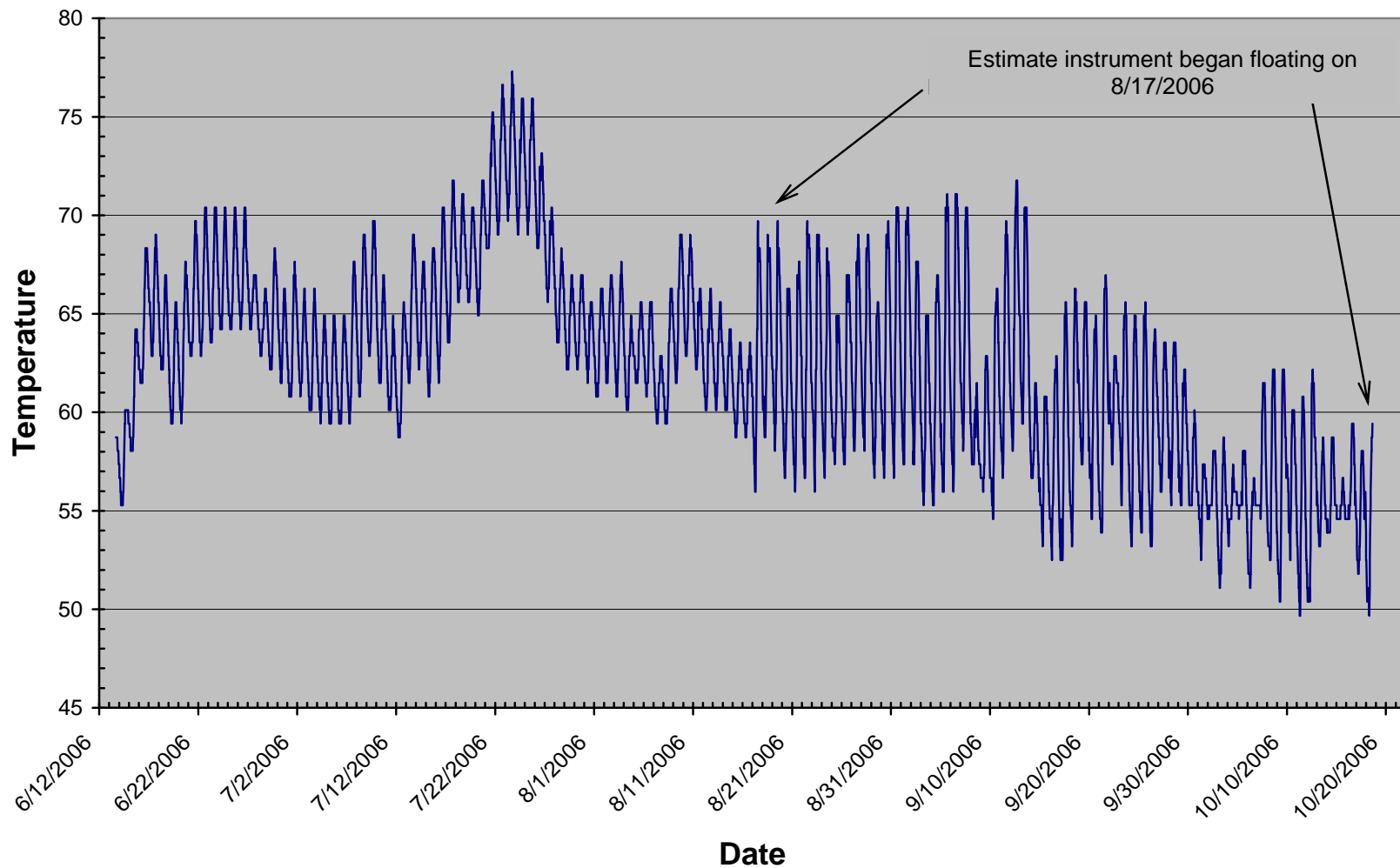


Figure WV-28. Wooden Valley 4a, 2006

### Wooden Valley 5 June - October 2006

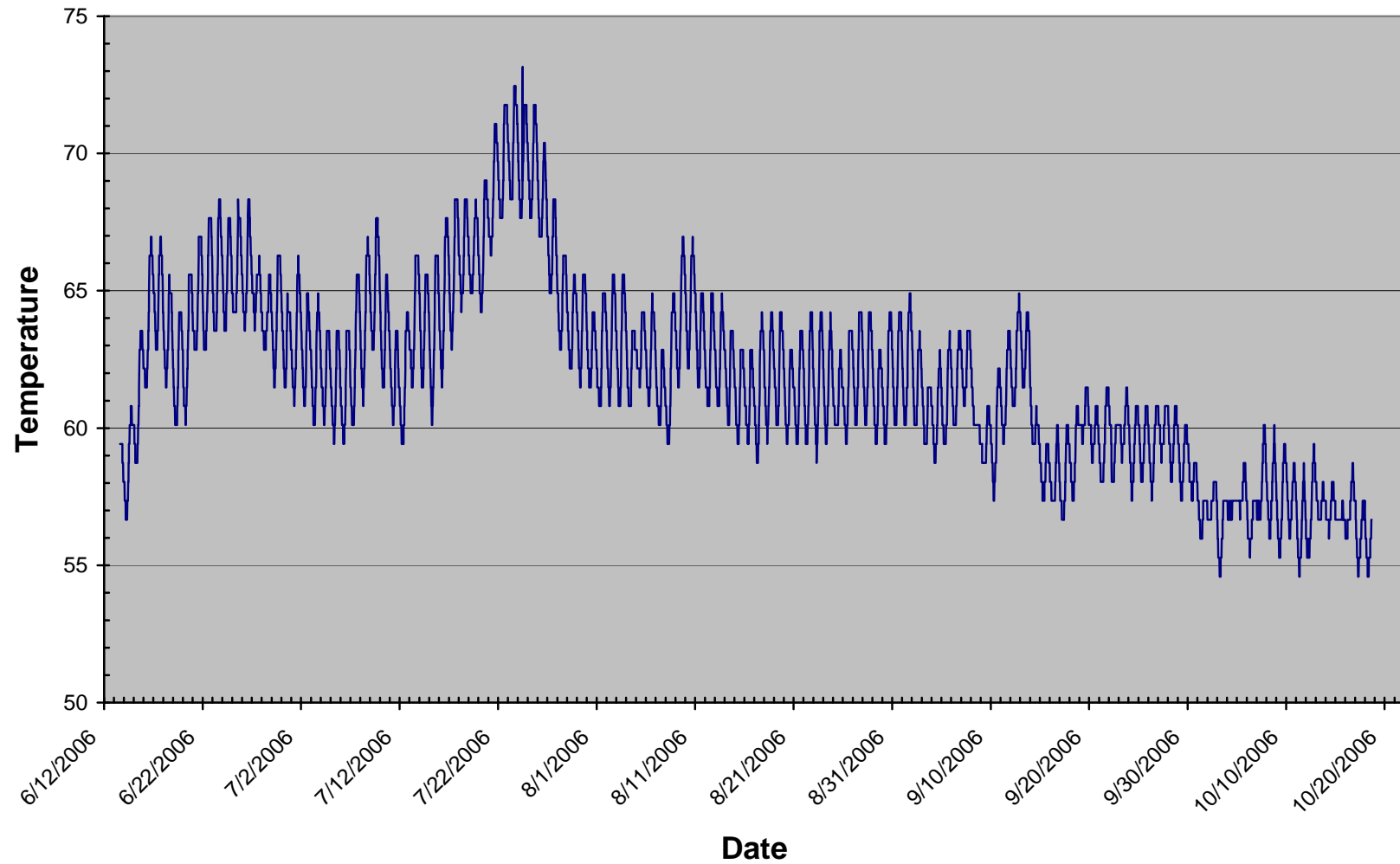


Figure WV-29. Wooden Valley 5, 2006

### Wooden Valley 6 June - July 2006

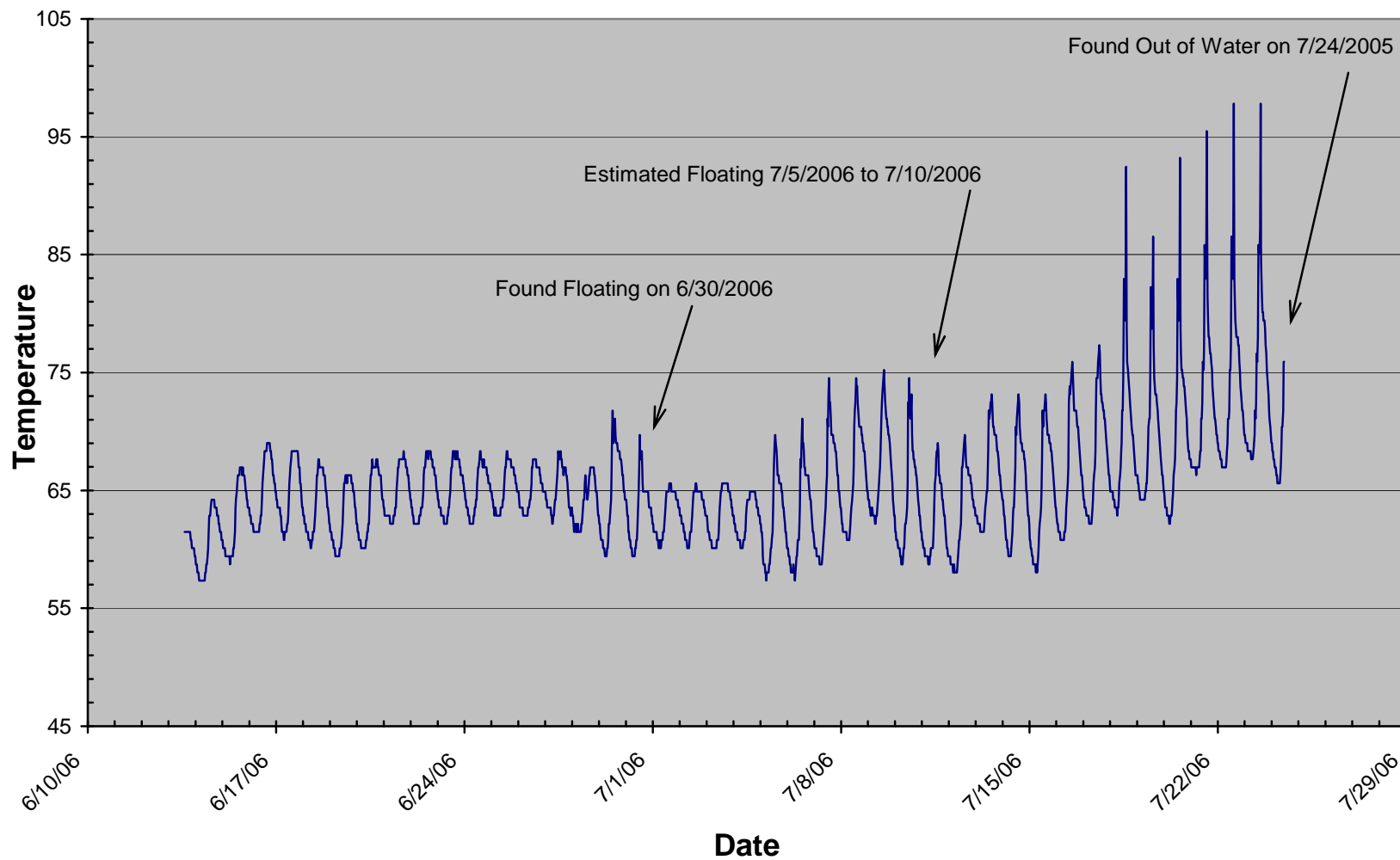


Figure WV-30. Wooden Valley 6, 2006



### Wooden Valley 7 Air June - October 2006

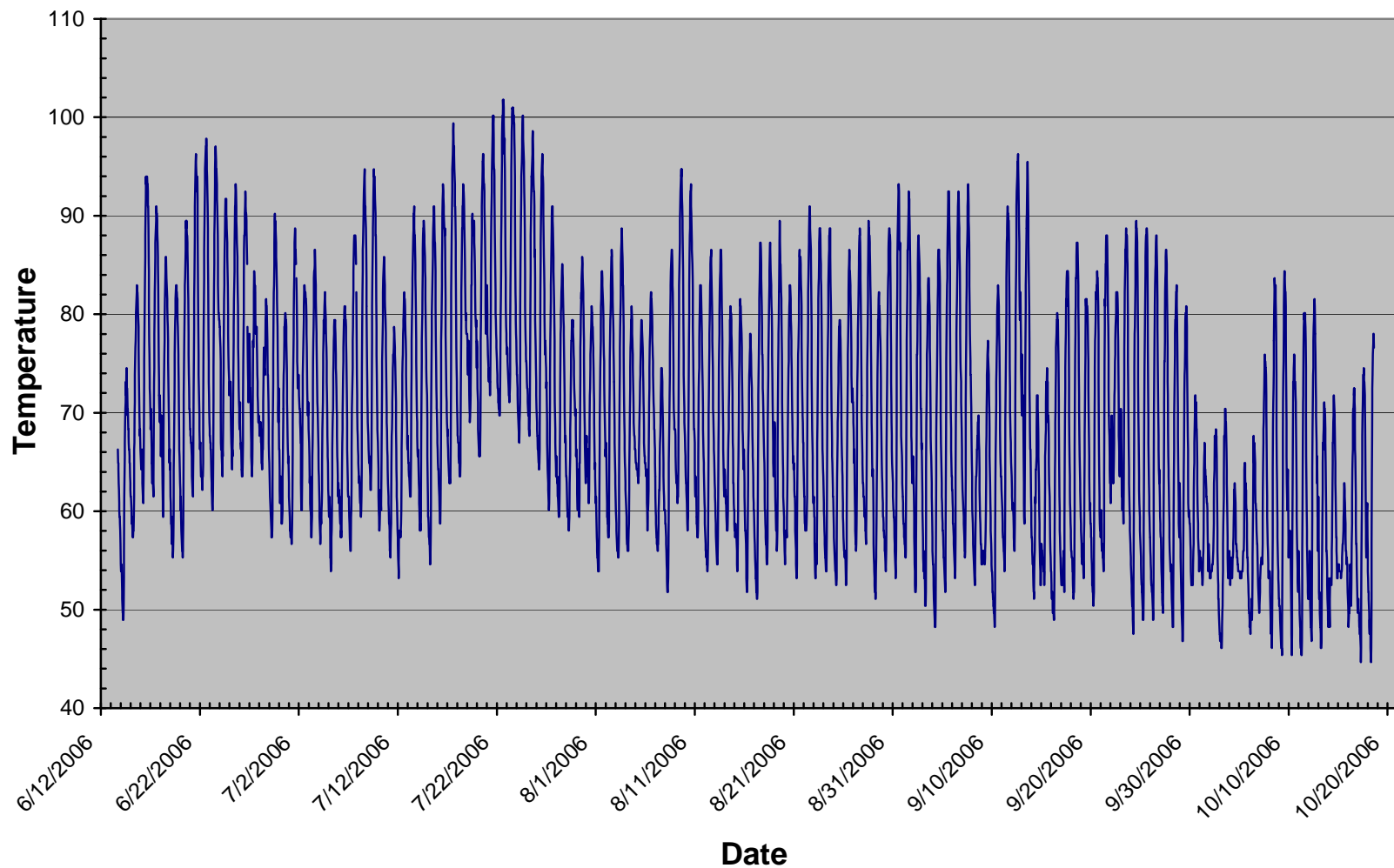


Figure WV-31. Wooden Valley 7, 2006, air temperature.

### Wooden Valley 1 June - August 2007

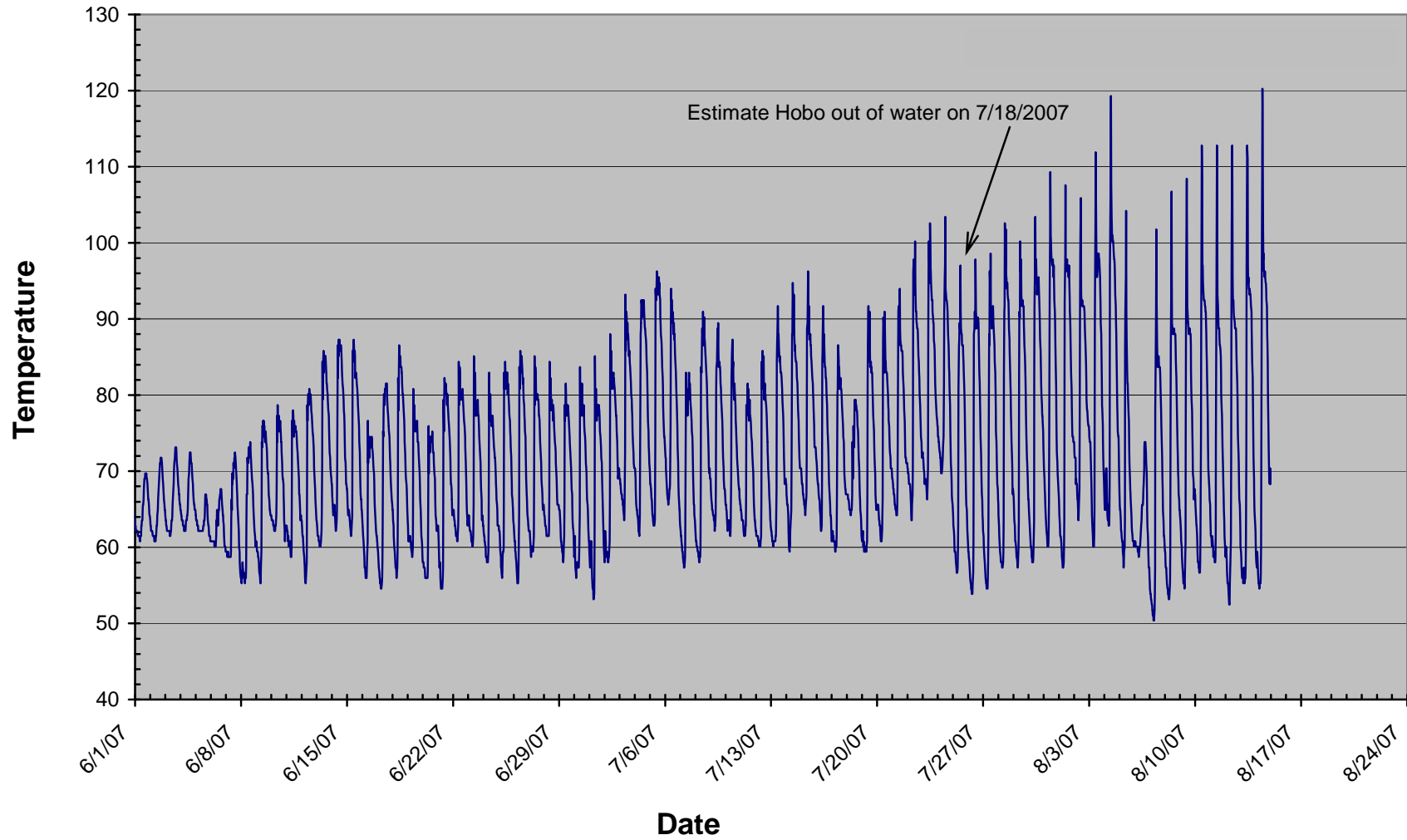


Figure WV-32. Wooden Valley 1, 2007

### Wooden Valley 2A June to October 2007

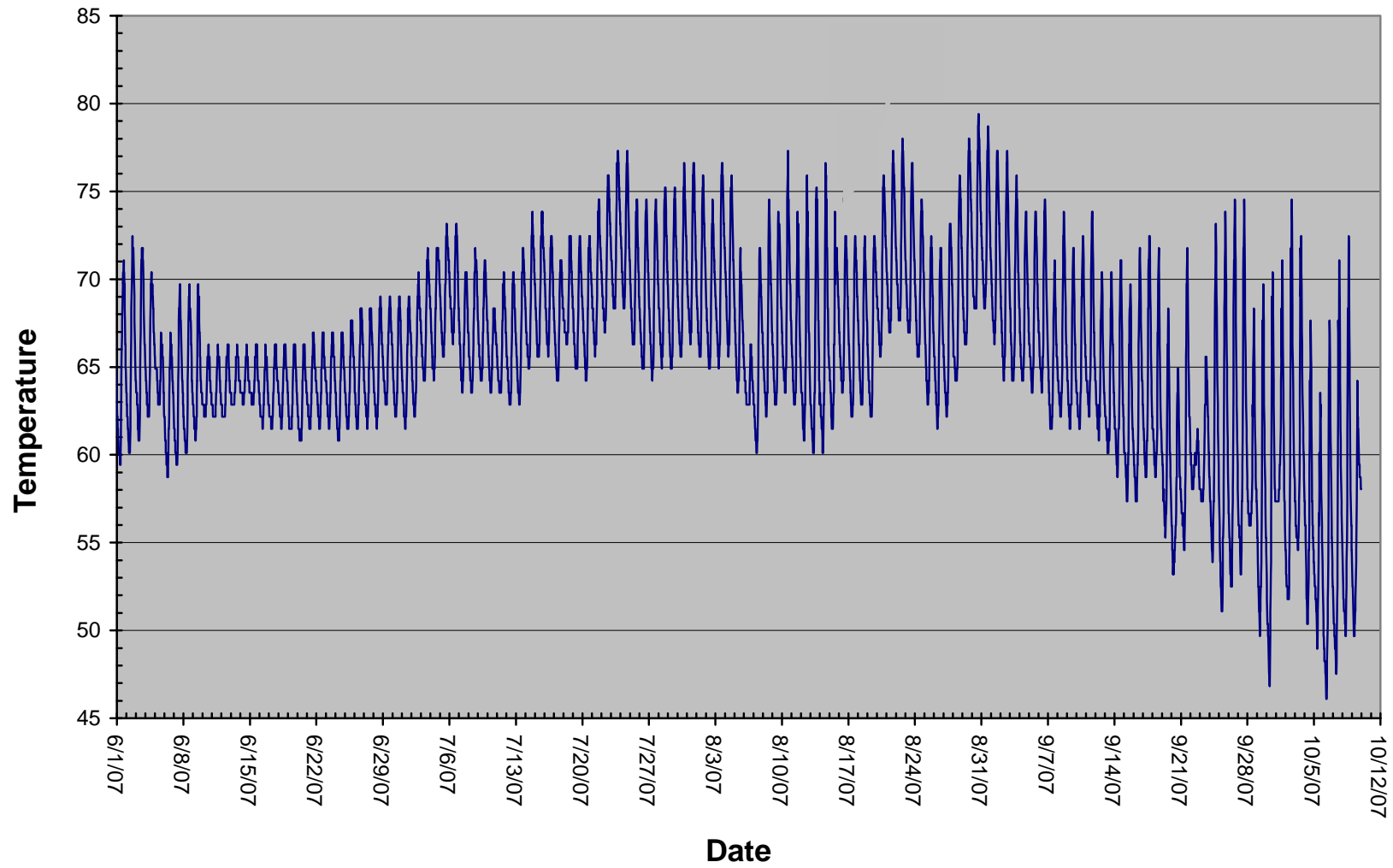


Figure WV-33. Wooden Valley 2a, 2007

### Wooden Valley 2B May to October 2007

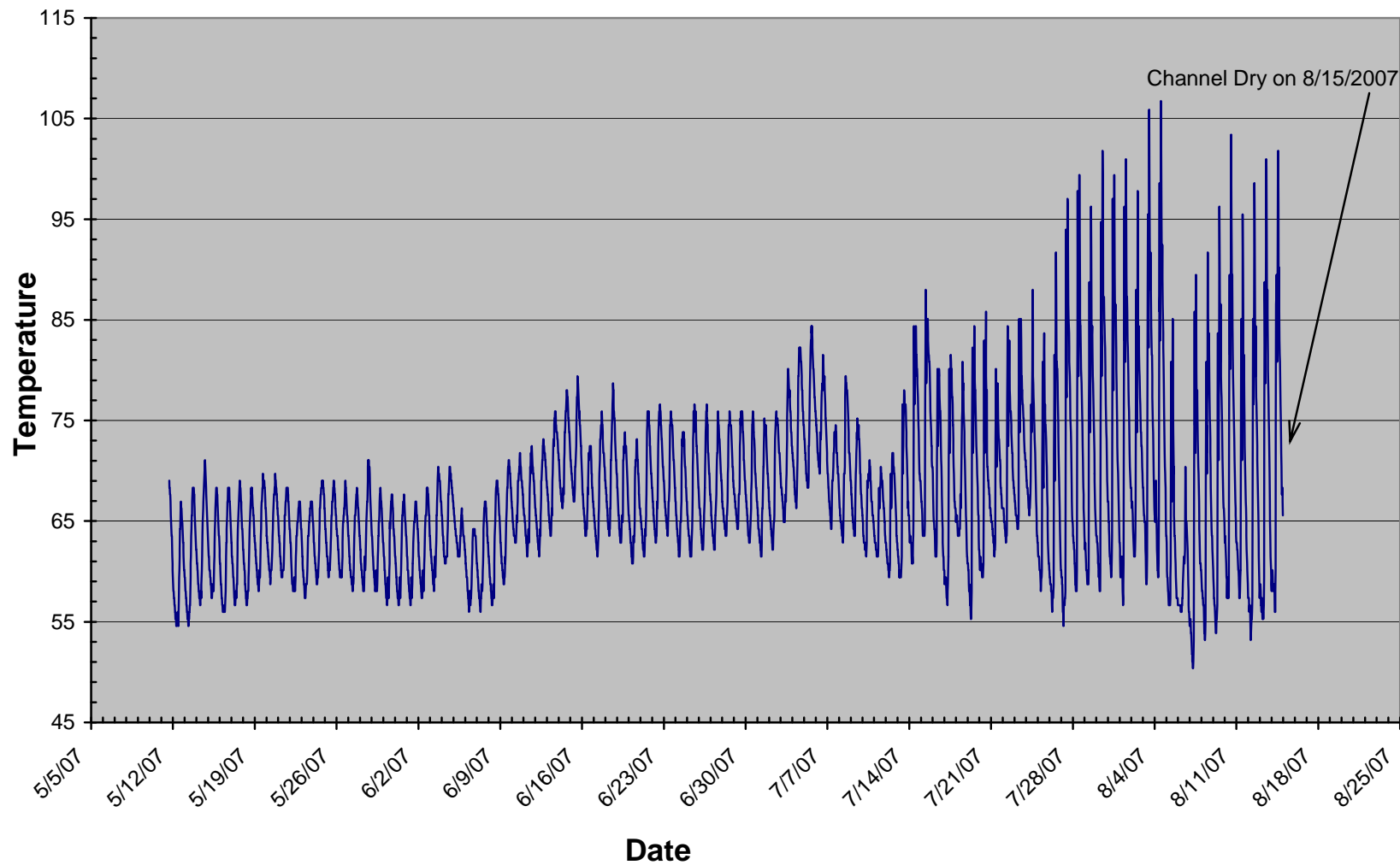


Figure WV-34. Wooden Valley 2b, 2007

### Wooden Valley Creek 3 May to October 2007

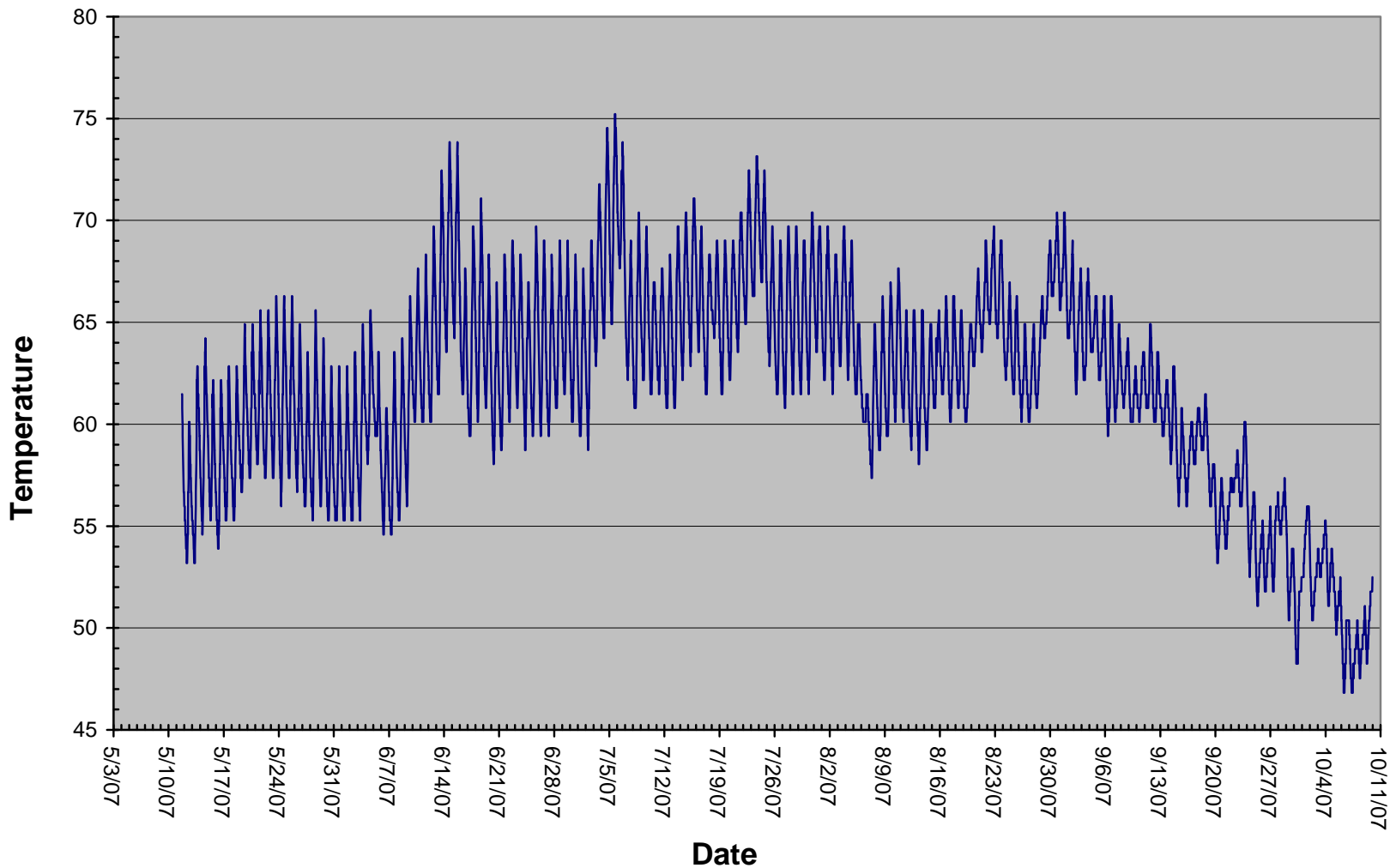


Figure WV-35. Wooden Valley 3, 2007

**Figure WV-36. Wooden Valley 4b, 2007 – NO DATA – Instrument Error**

### Wooden Valley Creek 4A June - November 2007

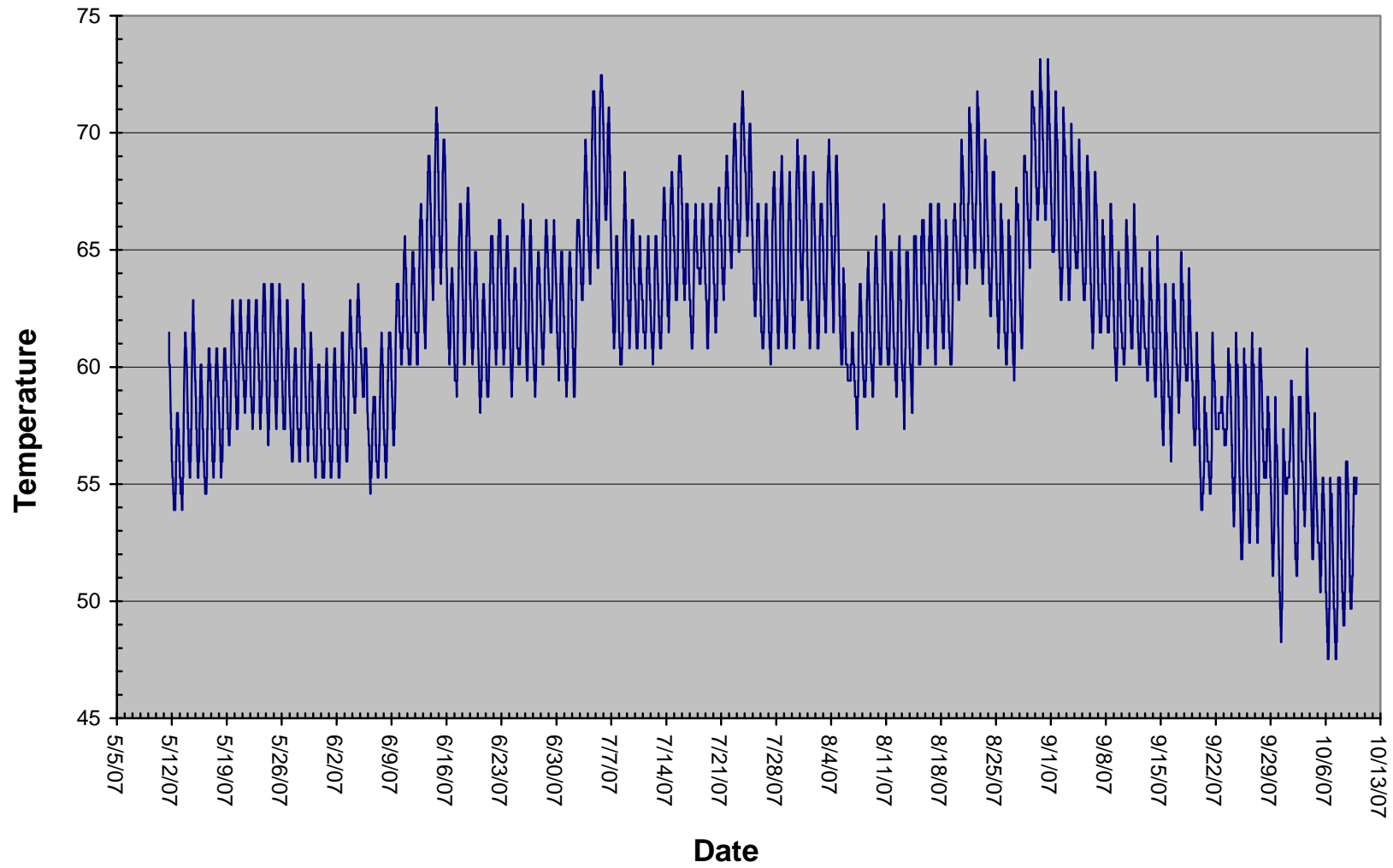


Figure WV-37. Wooden Valley 4a, 2007

### Wooden Valley Creek 5 May - October 2007

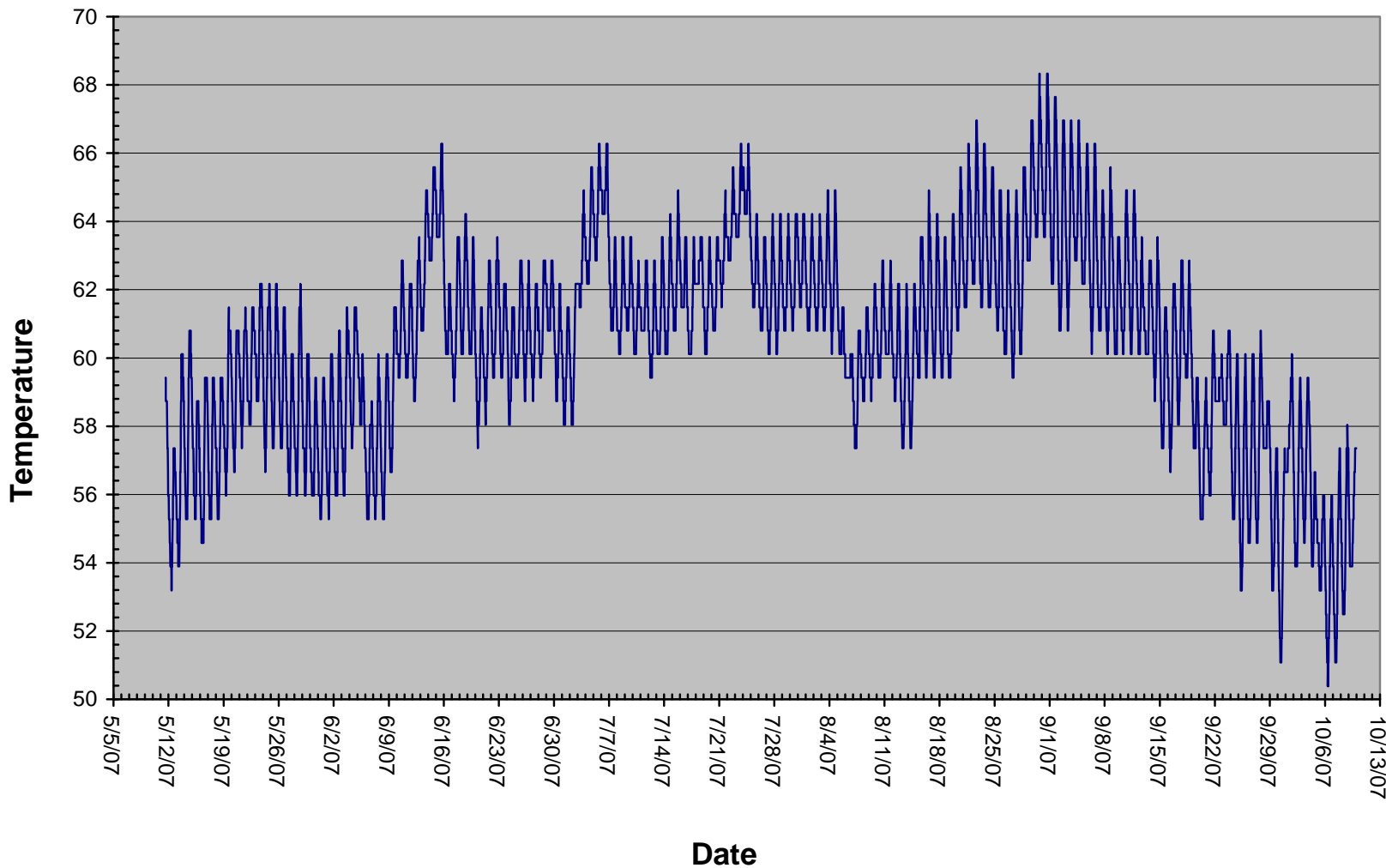


Figure WV-38. Wooden Valley 5, 2007



### Wooden Valley 7 Air Temperature June - November 2007

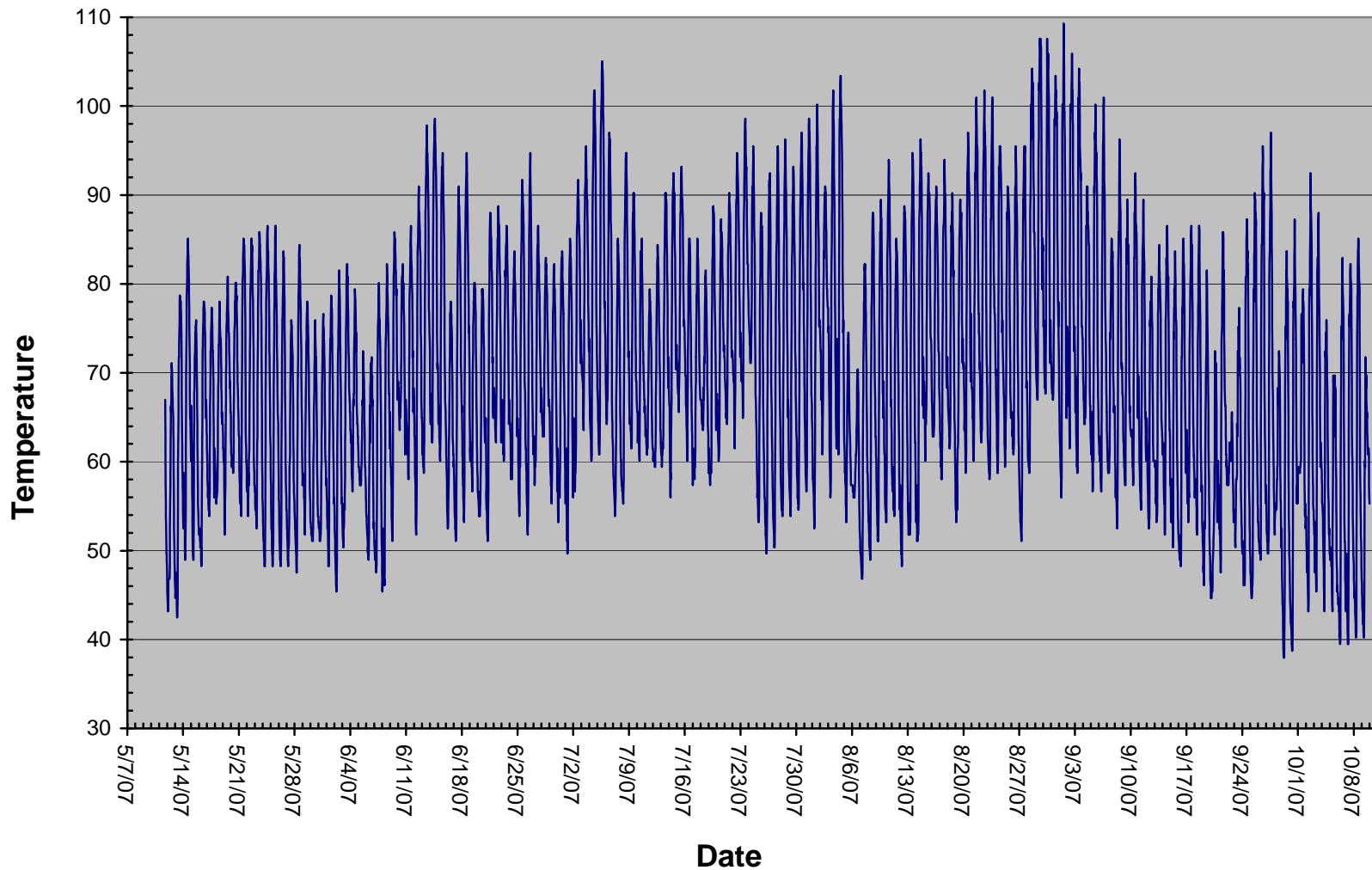


Figure WV-40. Wooden Valley 7, 2007, air temperature.

### Wooden Valley Creek 1 May - October 2009

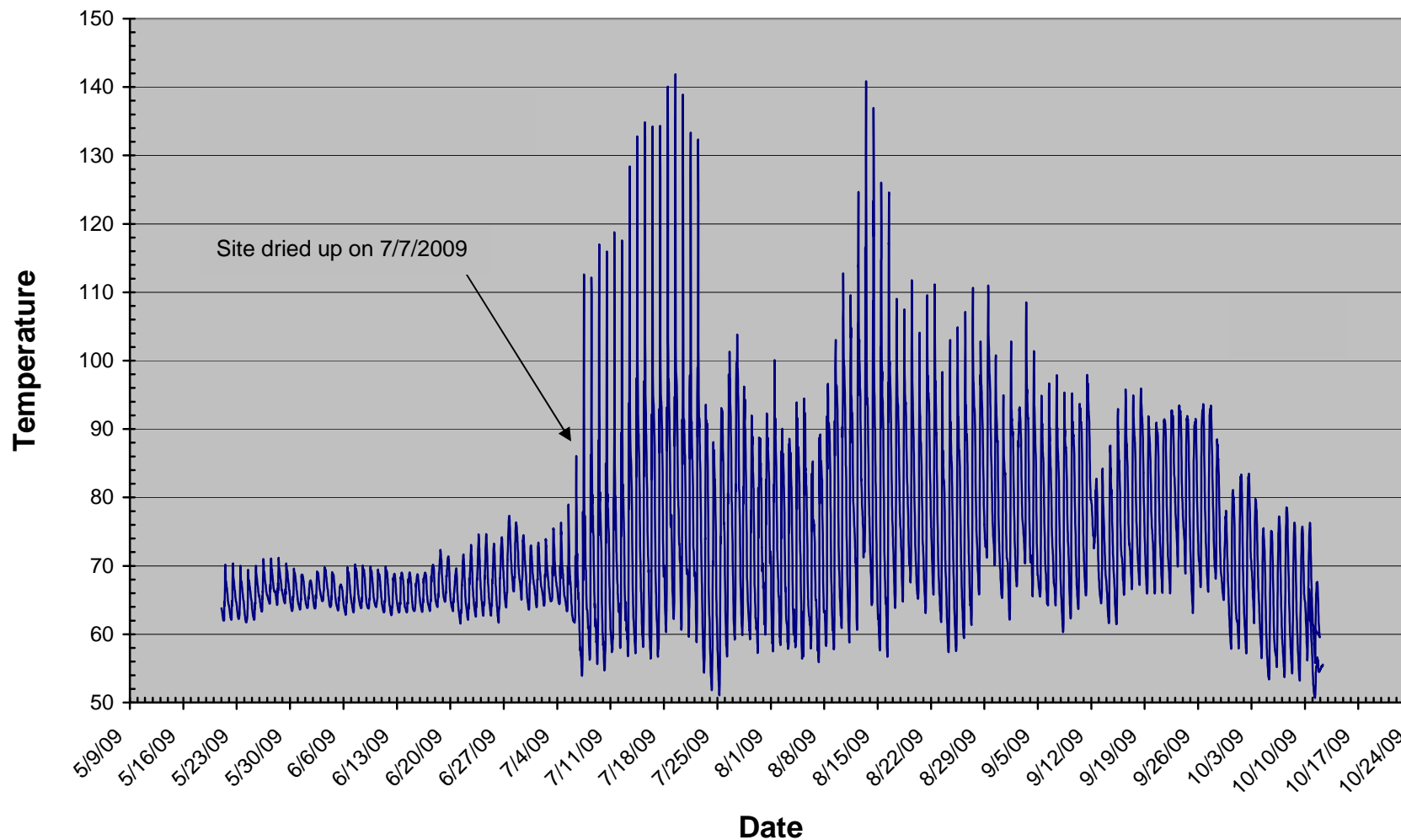


Figure WV-41. Wooden Valley 1, 2009

### Wooden Valley Creek 2B May - October 2009

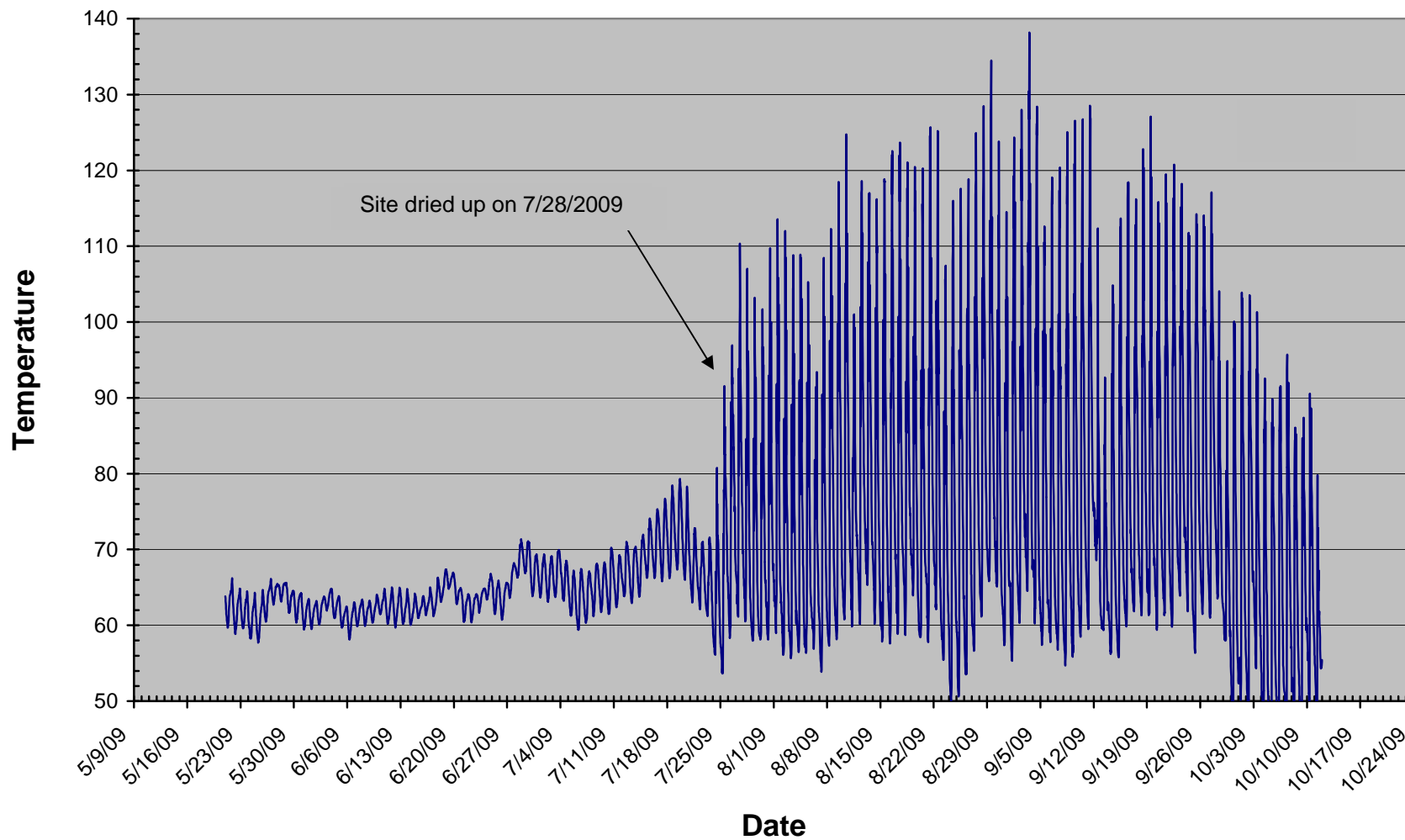


Figure WV-42. Wooden Valley 2B, 2009

### Wooden Valley Creek 2.5 May - October 2009

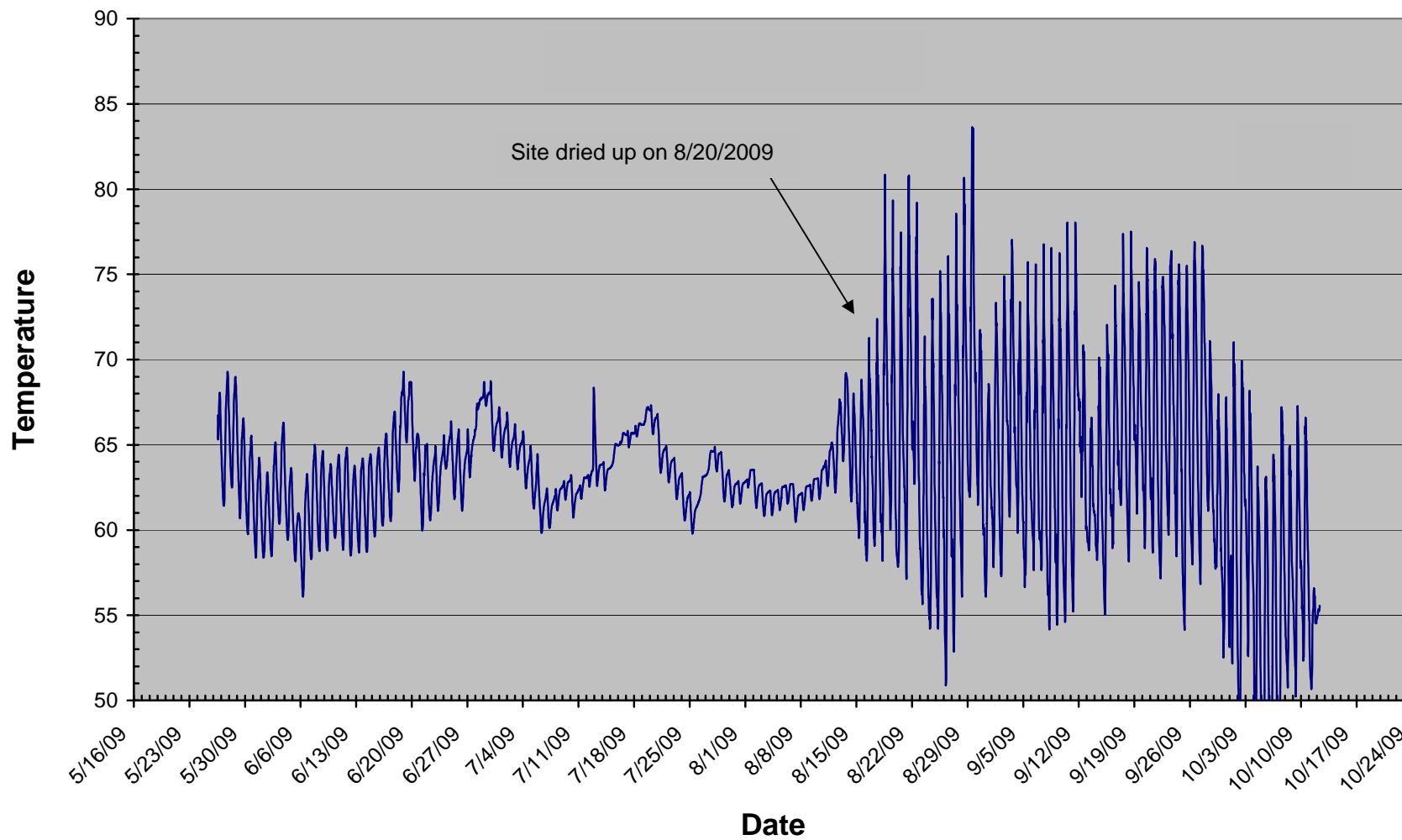


Figure WV-43. Wooden Valley 2.5, 2009

### Wooden Valley Creek 4B May - October 2009

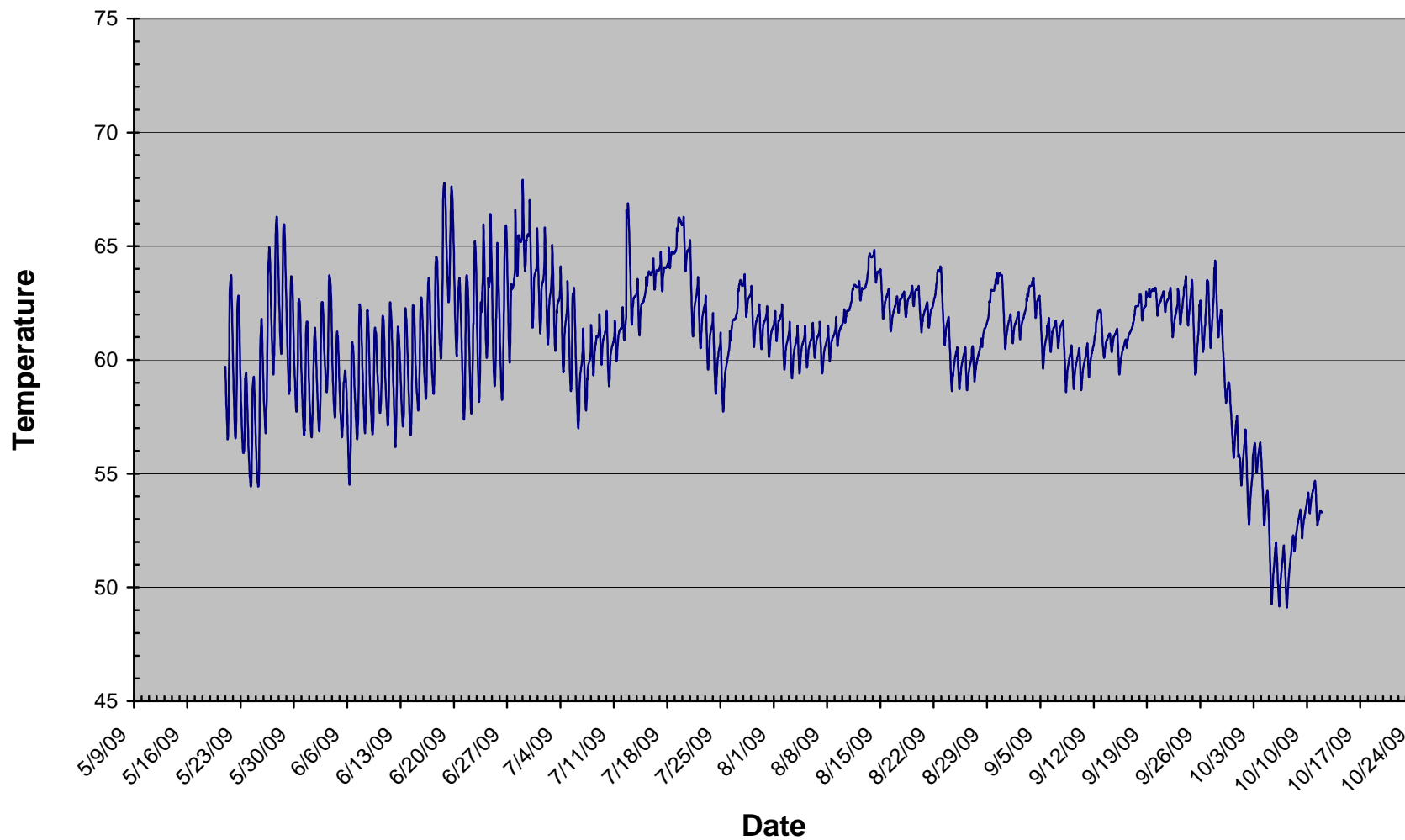


Figure WV-44. Wooden Valley 4B, 2009

### Wooden Valley Creek 5 May - October 2009

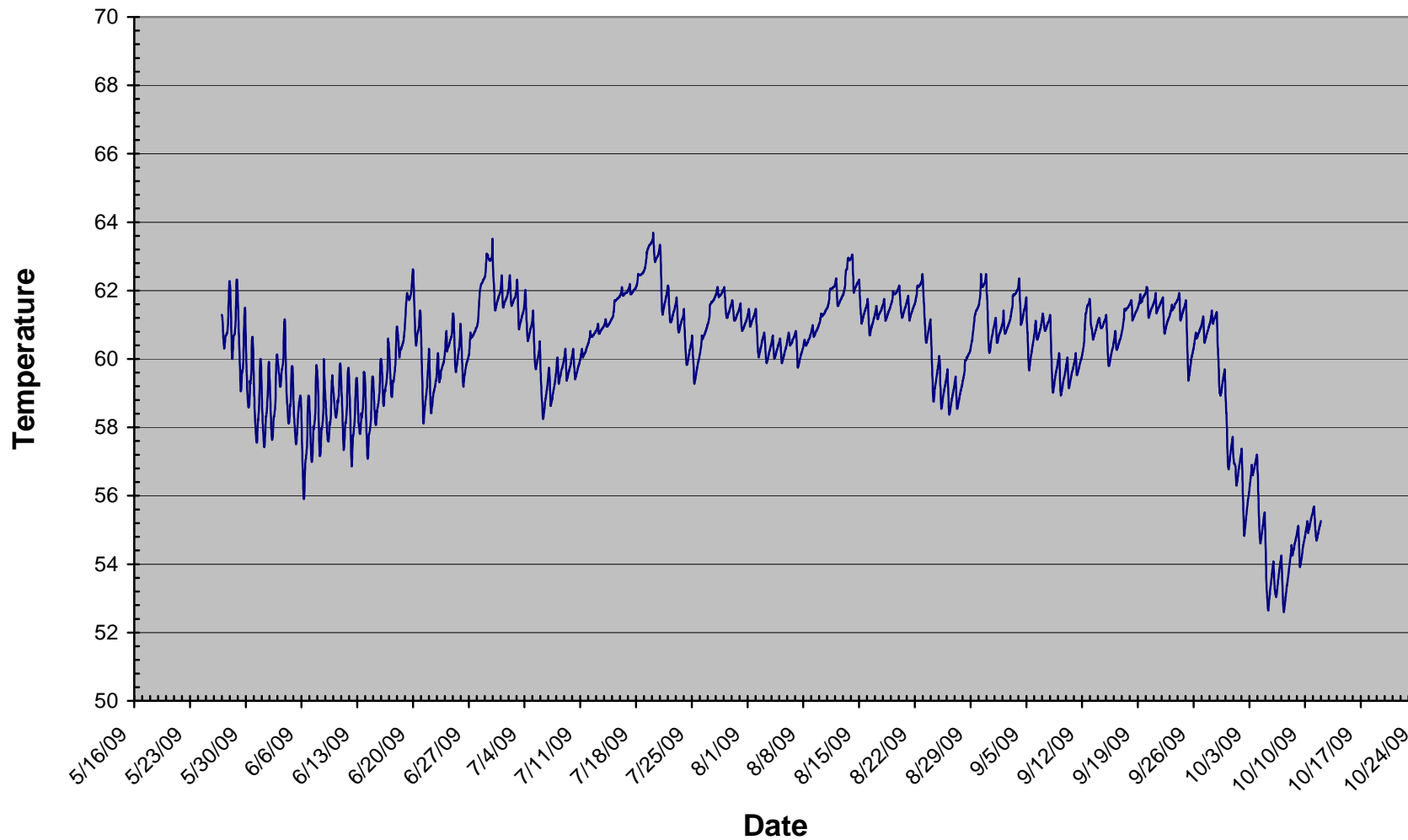


Figure WV-45. Wooden Valley 5, 2009

### Wooden Valley Creek 6 May - October 2009

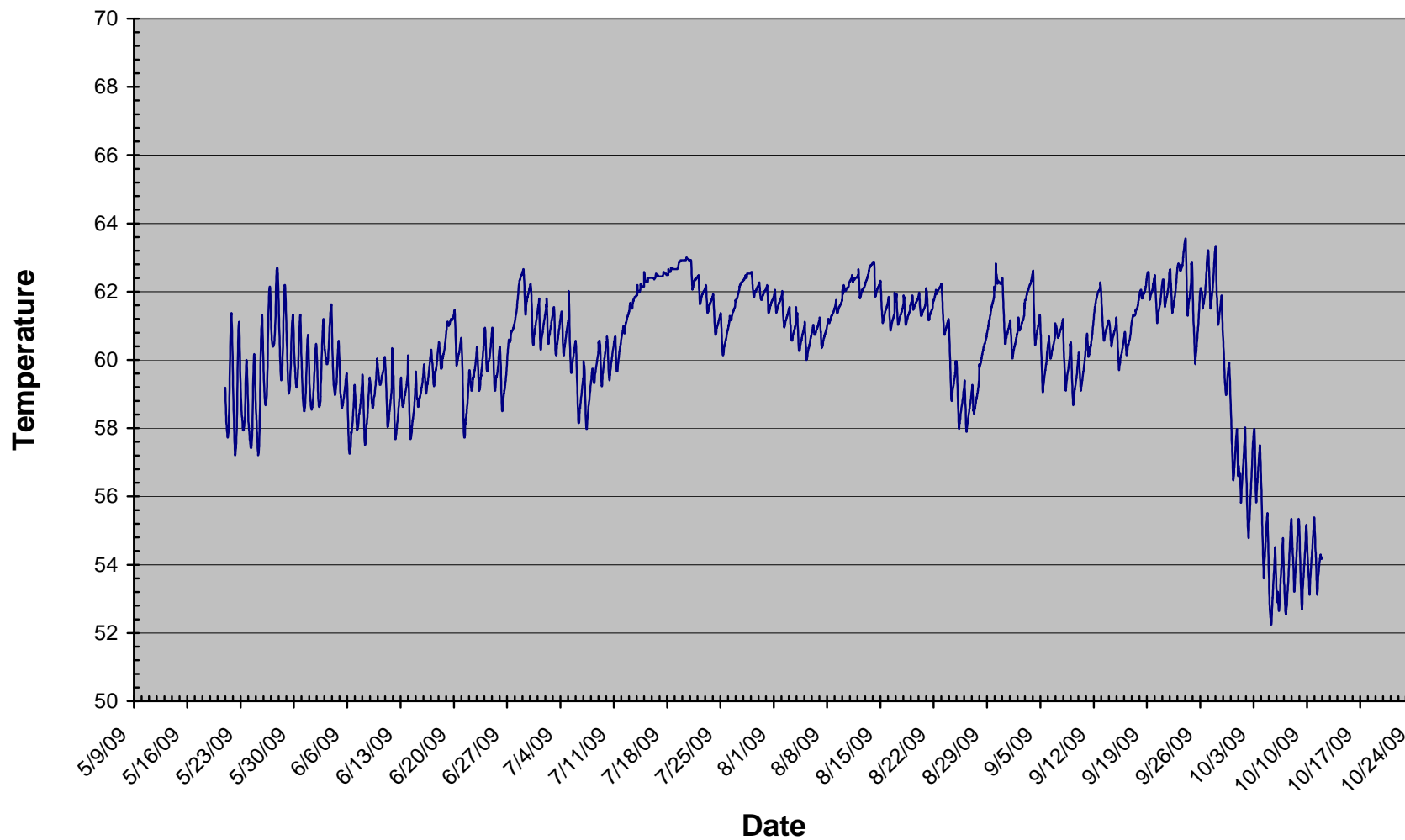


Figure WV-46. Wooden Valley 6, 2009

### Wooden Valley Creek 7 Air Temperature May - October 2009

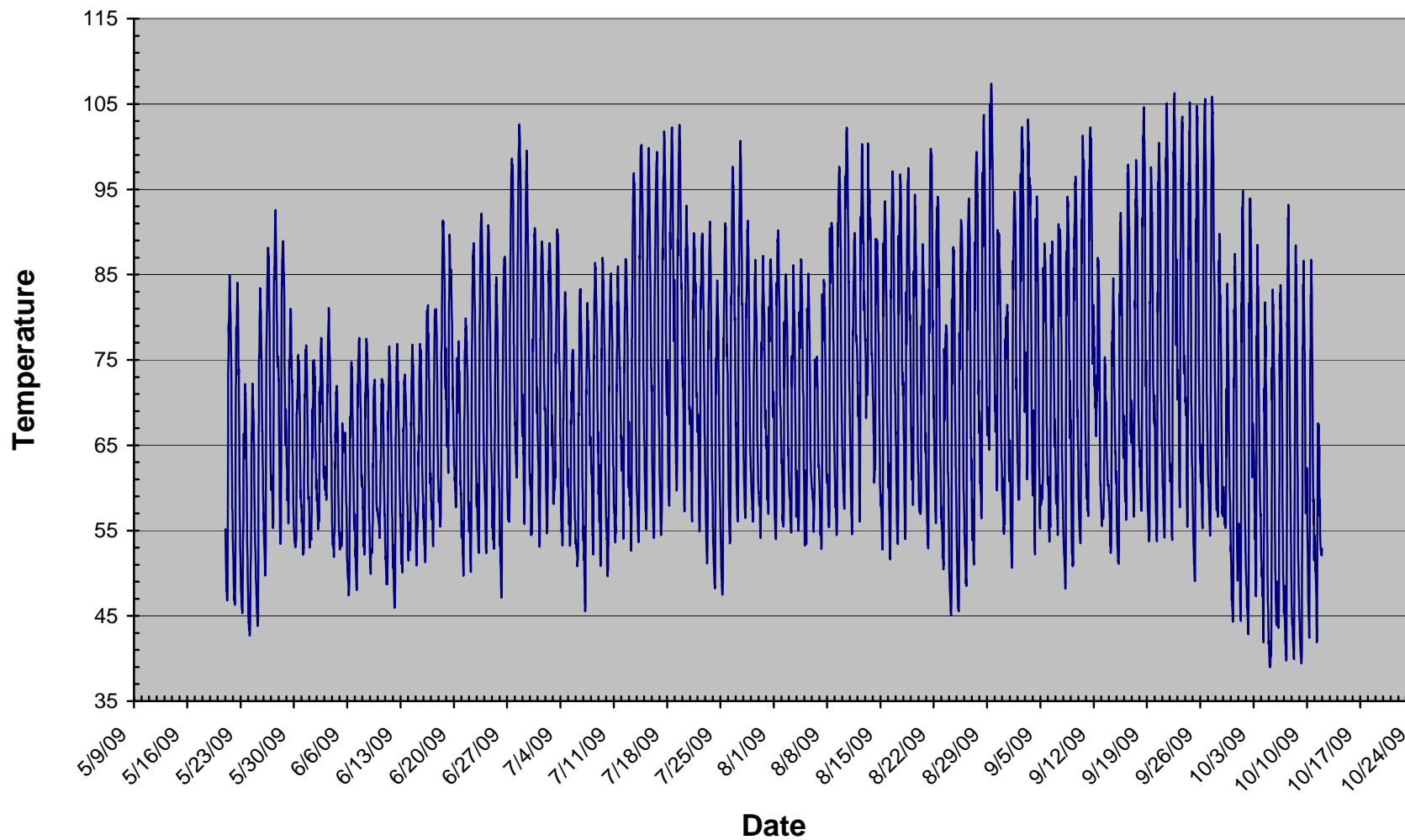


Figure WV-47. Wooden Valley 7 Air Temperature, 2009



### Wooden Valley Creek 1 June - October 2010

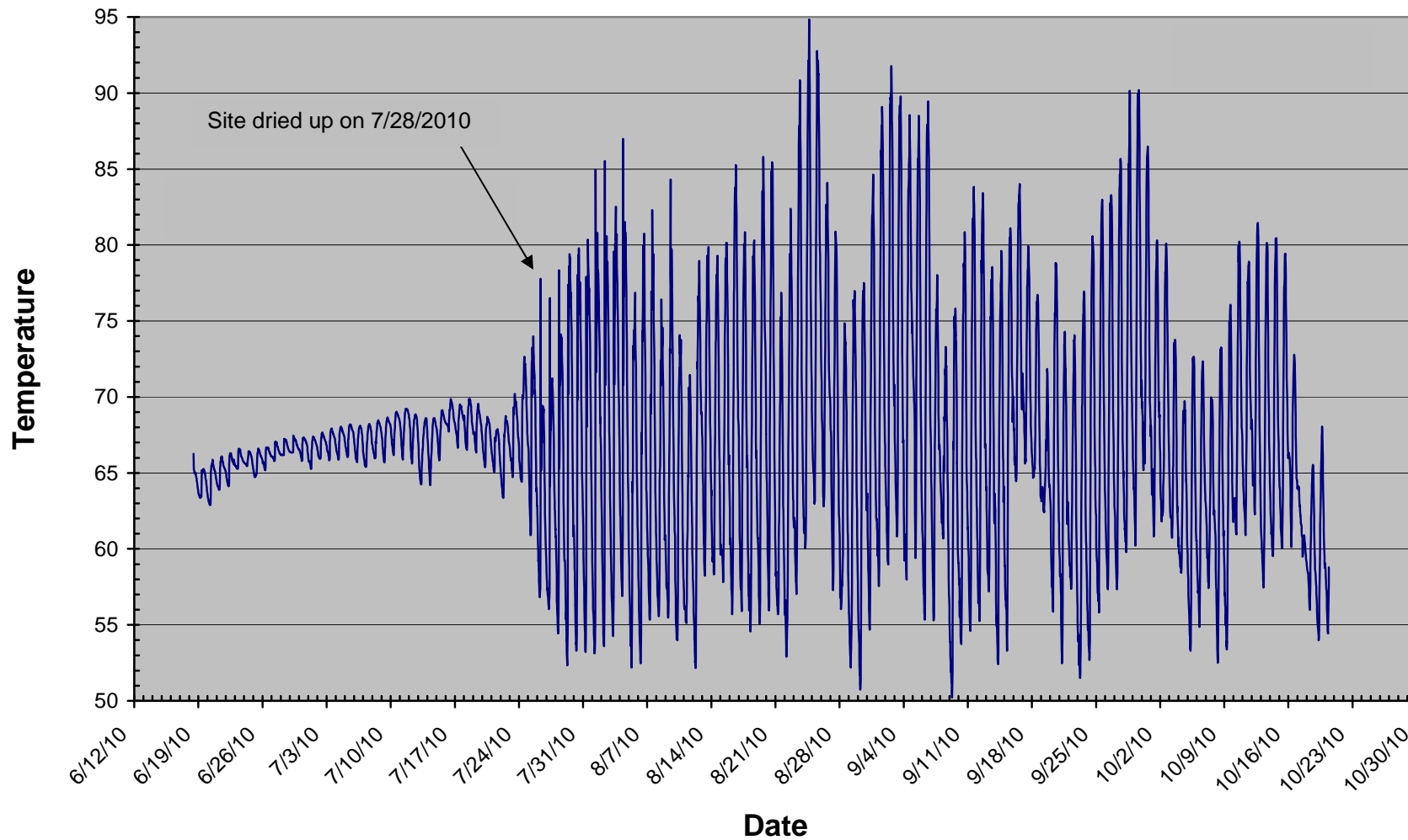


Figure WV-48. Wooden Valley 1, 2010

### Wooden Valley Creek 2A June - October 2010

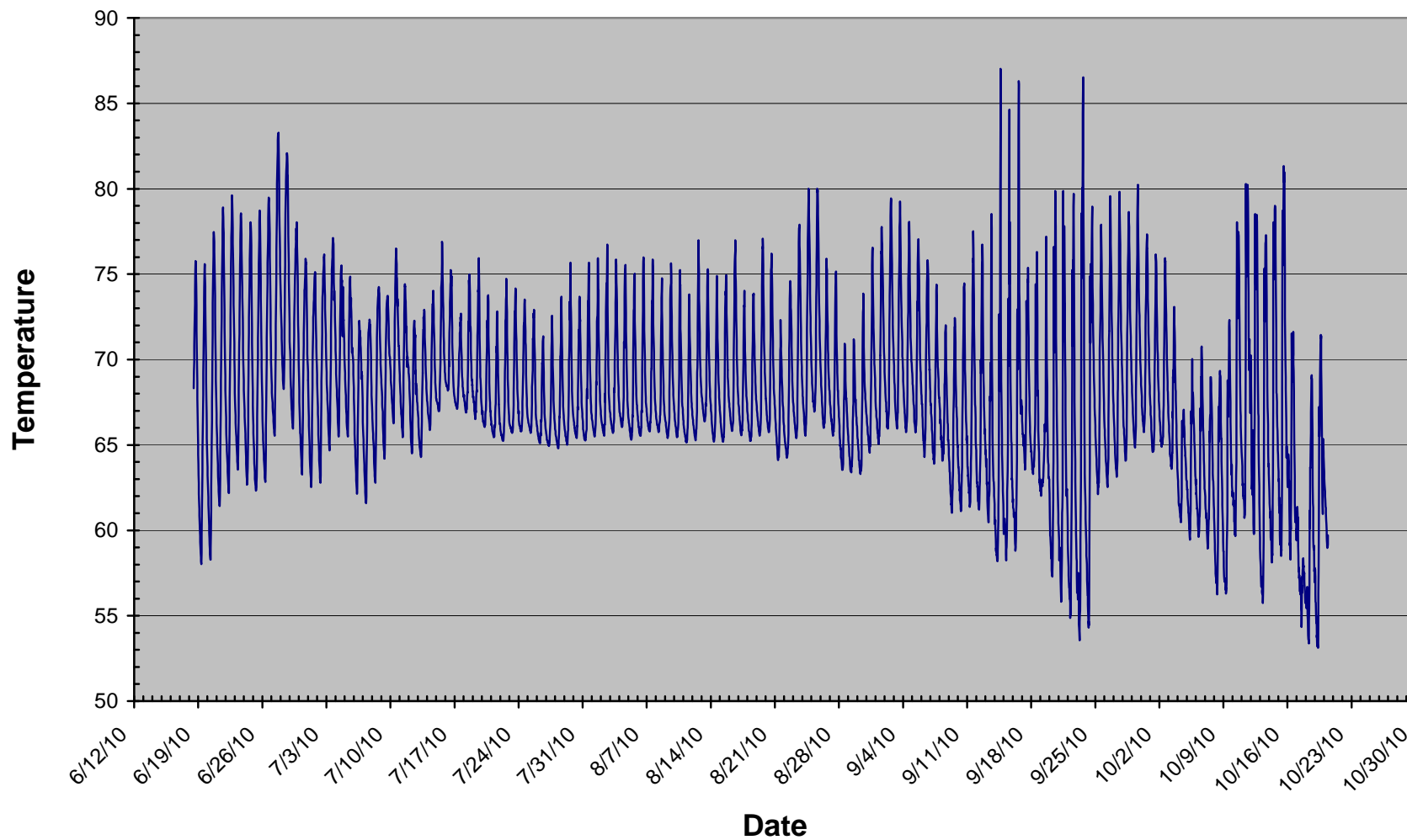


Figure WV-49. Wooden Valley 2A, 2010

### Wooden Valley Creek 2B June - October 2010

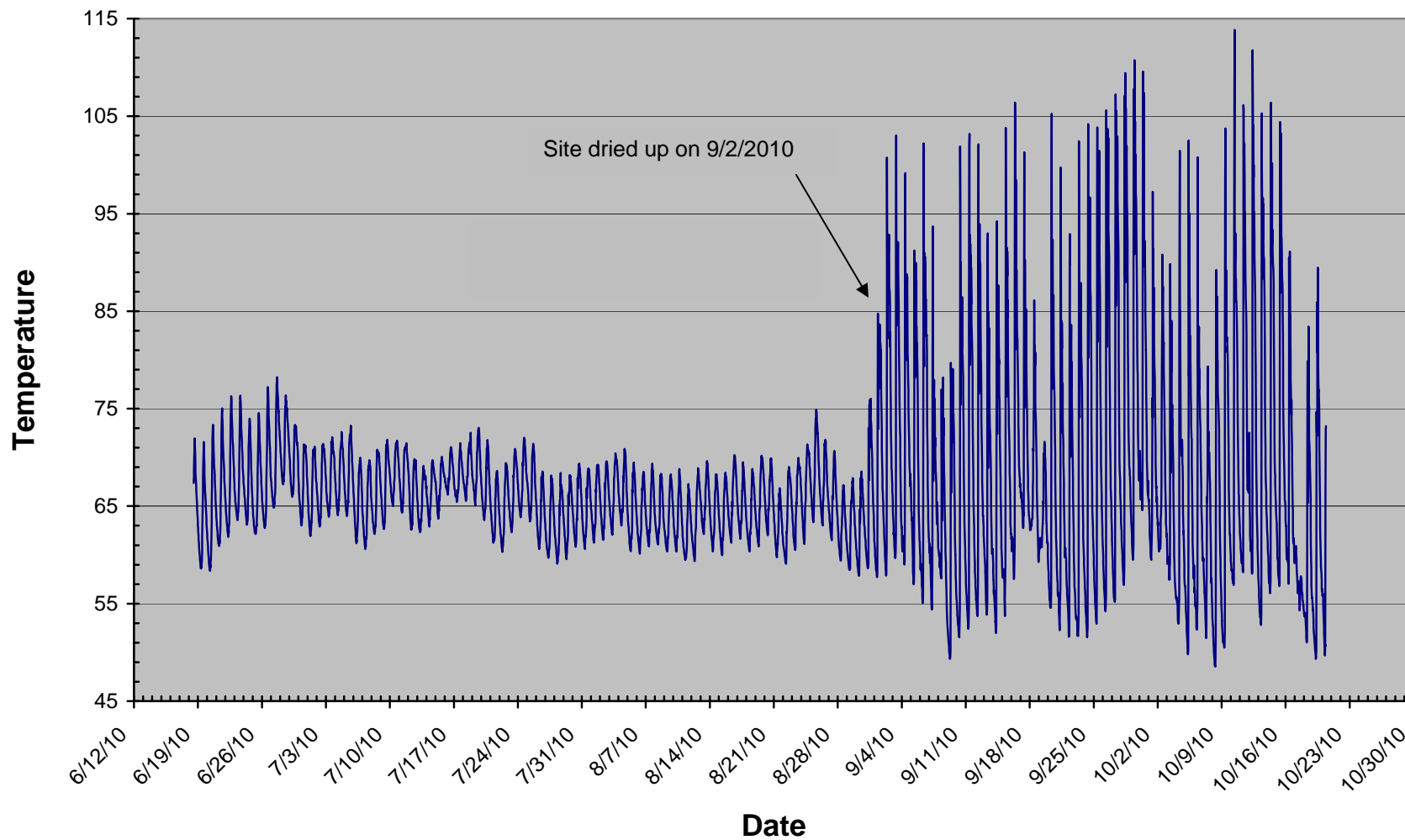


Figure WV-50. Wooden Valley 2B, 2010

**Figure WV-51. Wooden Valley 4B, 2010 – NO DATA – Instrument Error**

### Wooden Valley Creek 5 June - October 2010

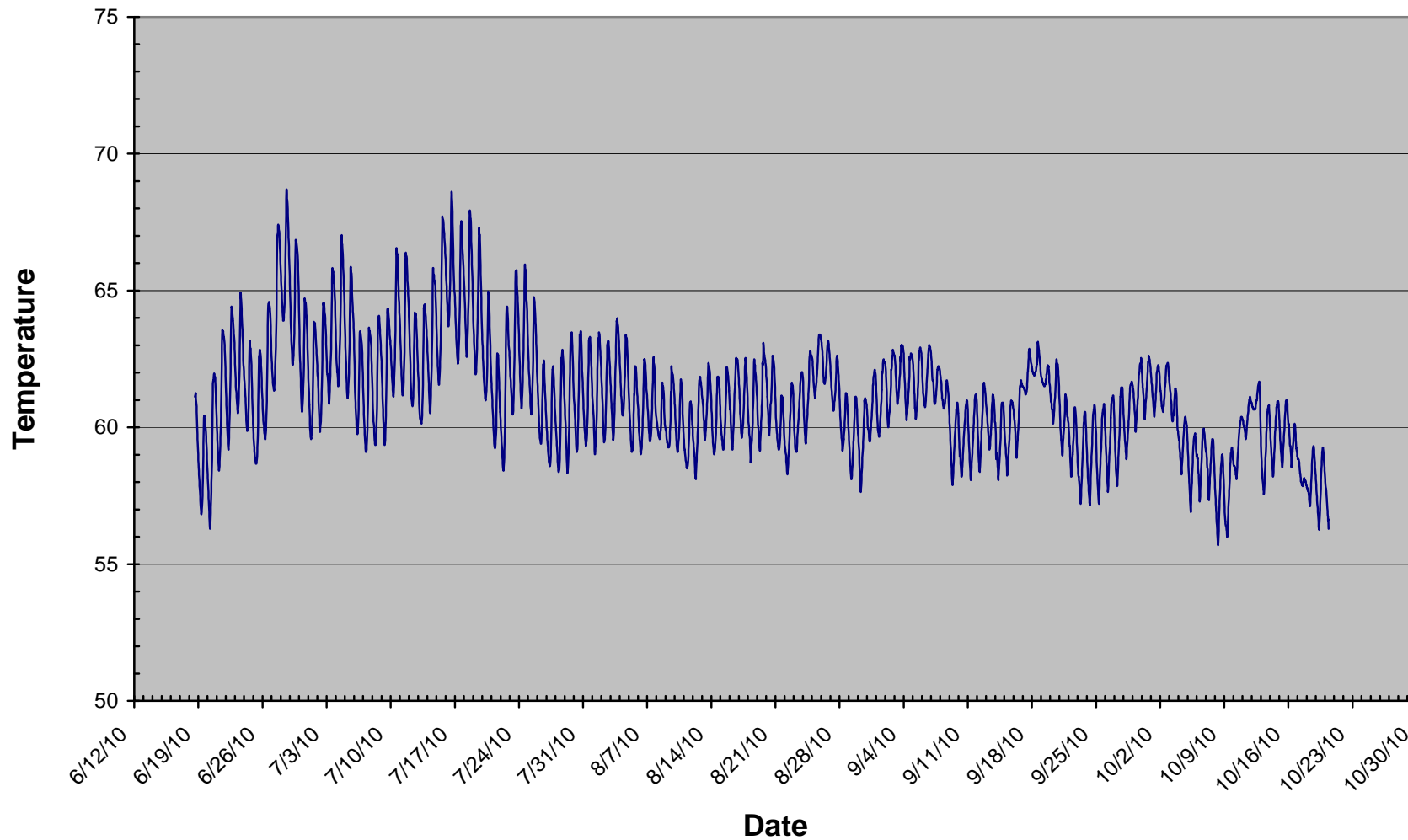


Figure WV-52. Wooden Valley 5, 2010

### Wooden Valley Creek 7 Air Temperature June - October 2010

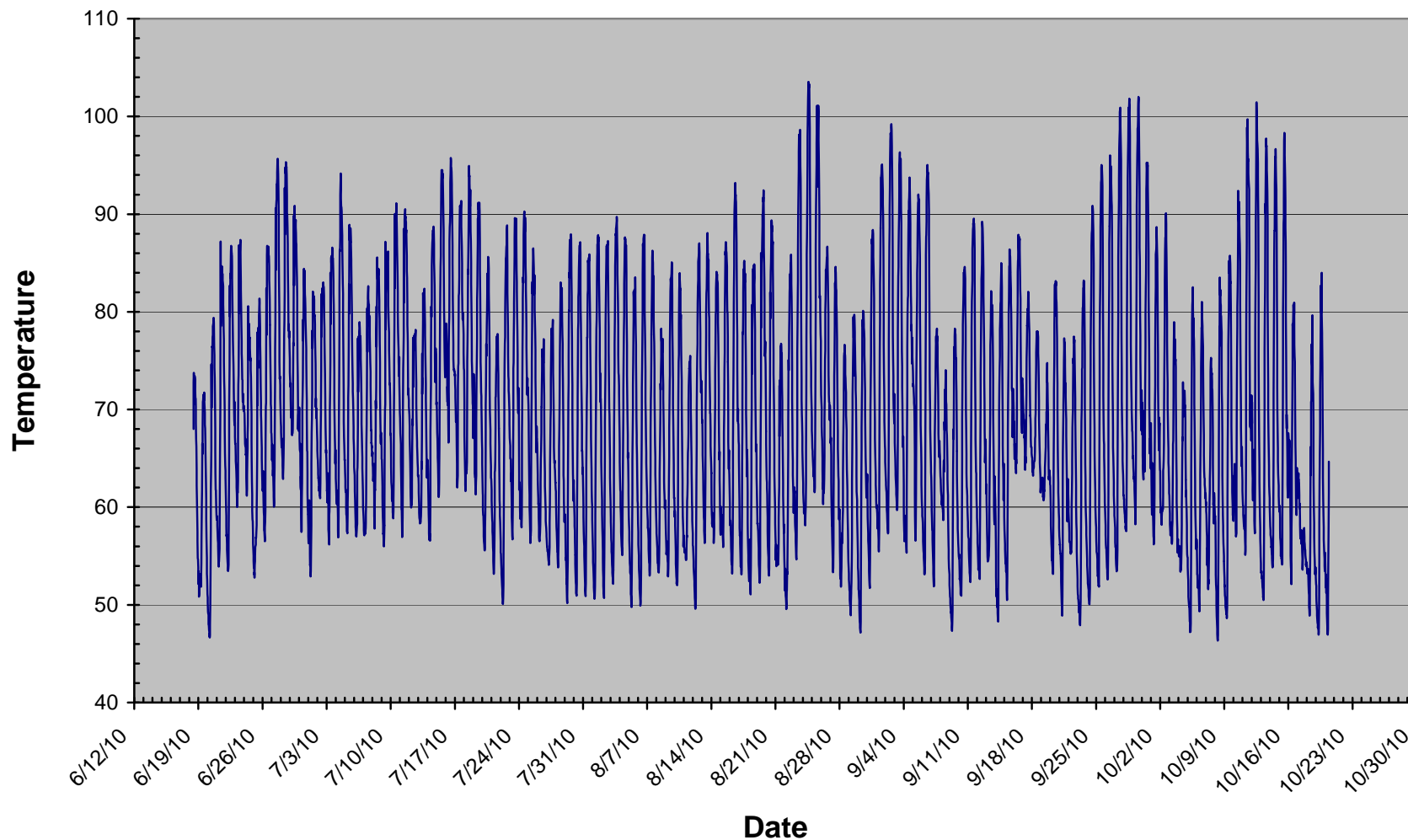


Figure WV-53. Wooden Valley 7 Air Temperature, 2010

Analysis of Summertime Stream Temperature Records for  
Suisun Creek, Wooden Valley Creek and White Creek  
2002 through 2010

Attachment 3  
White Creek Temperature Records

### White Creek 1 June - November 2002

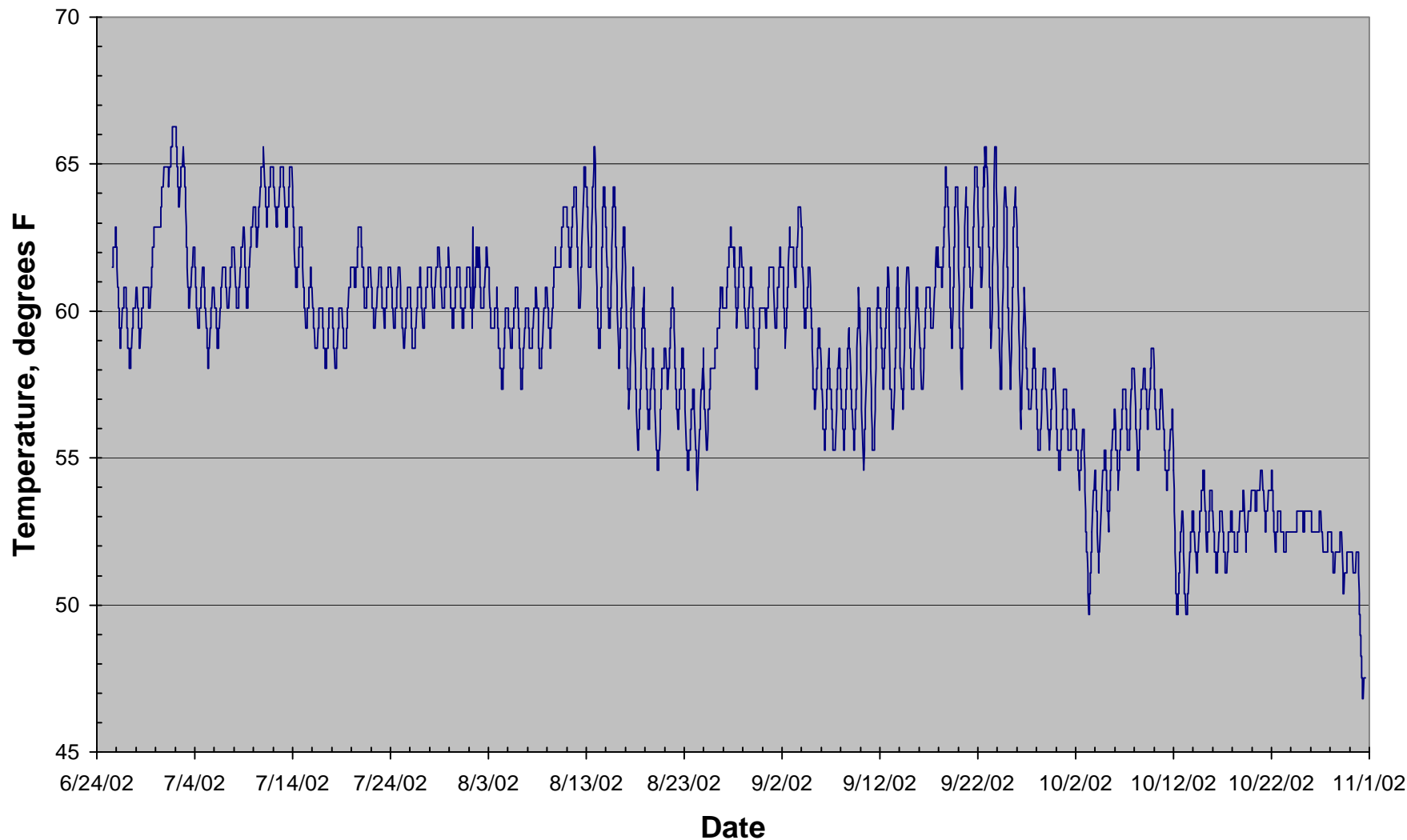


Figure WC-1. White Creek 1, 2002.



### White Creek 2 June - August 2002

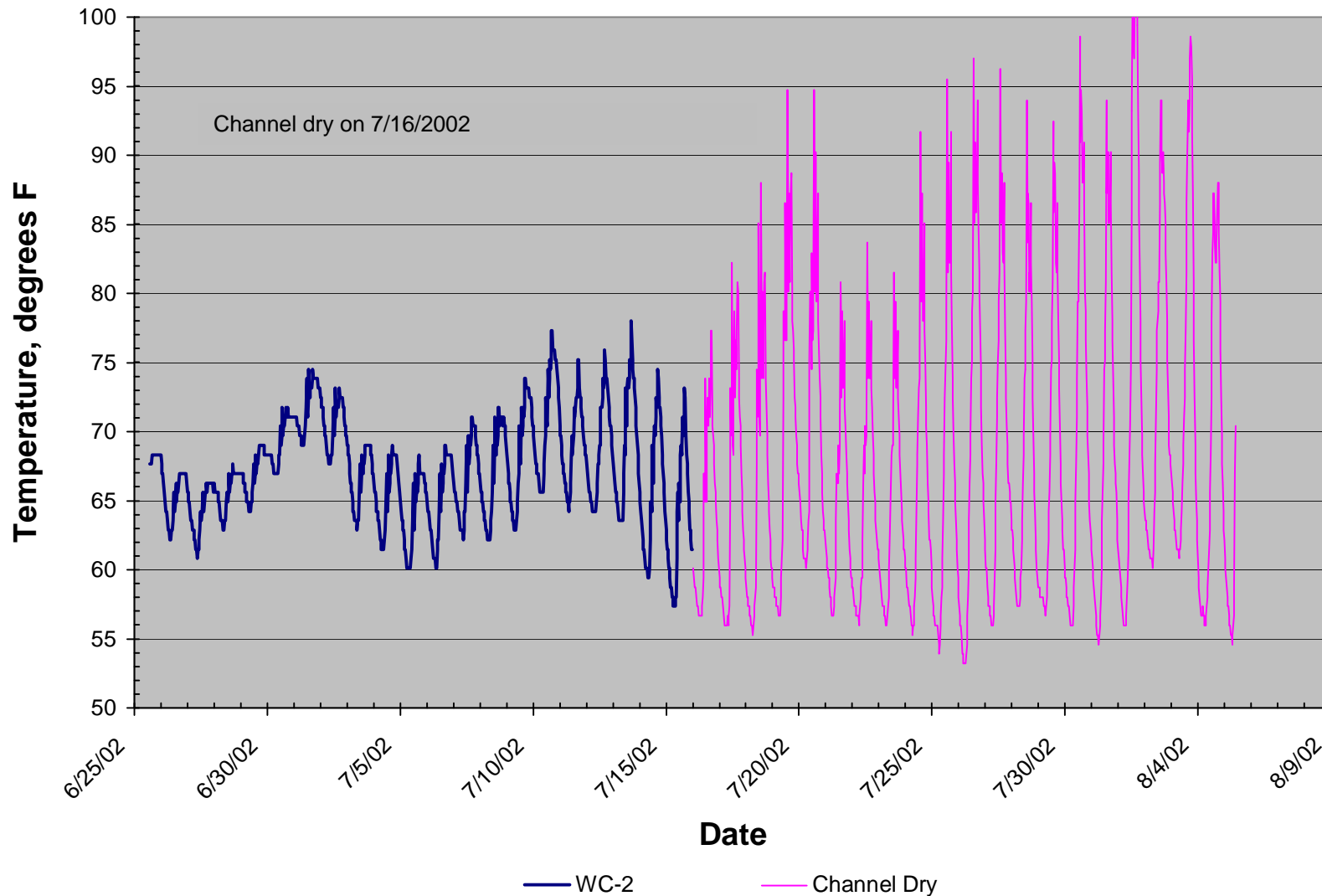


Figure WC-2. White Creek 2, 2002. Estimate that channel dried up on 7/16/2002.

### White Creek 3 June - August 2002

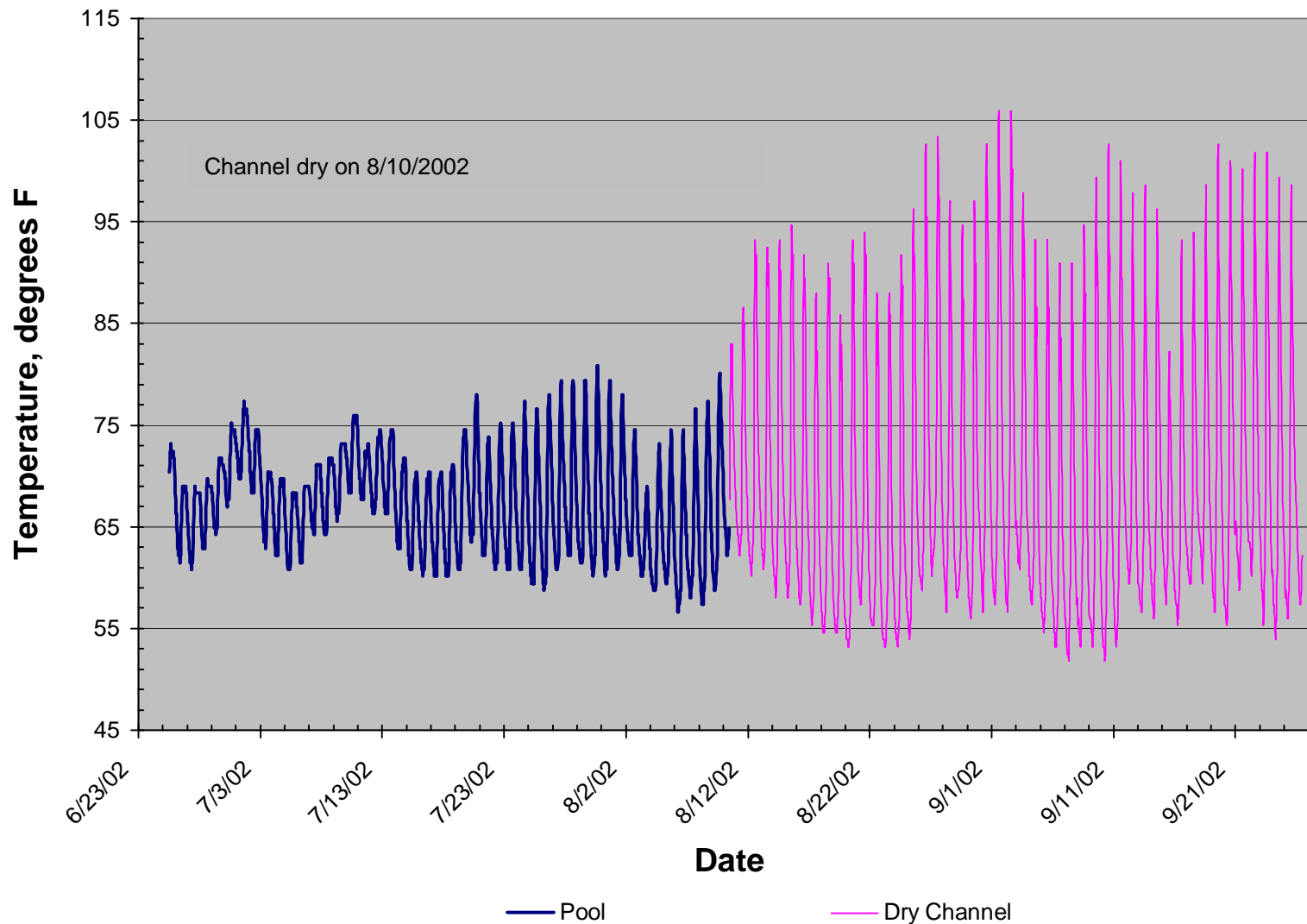


Figure WC-3. White Creek 3, 2002. Estimate that the channel went dry on 8/10/2002.

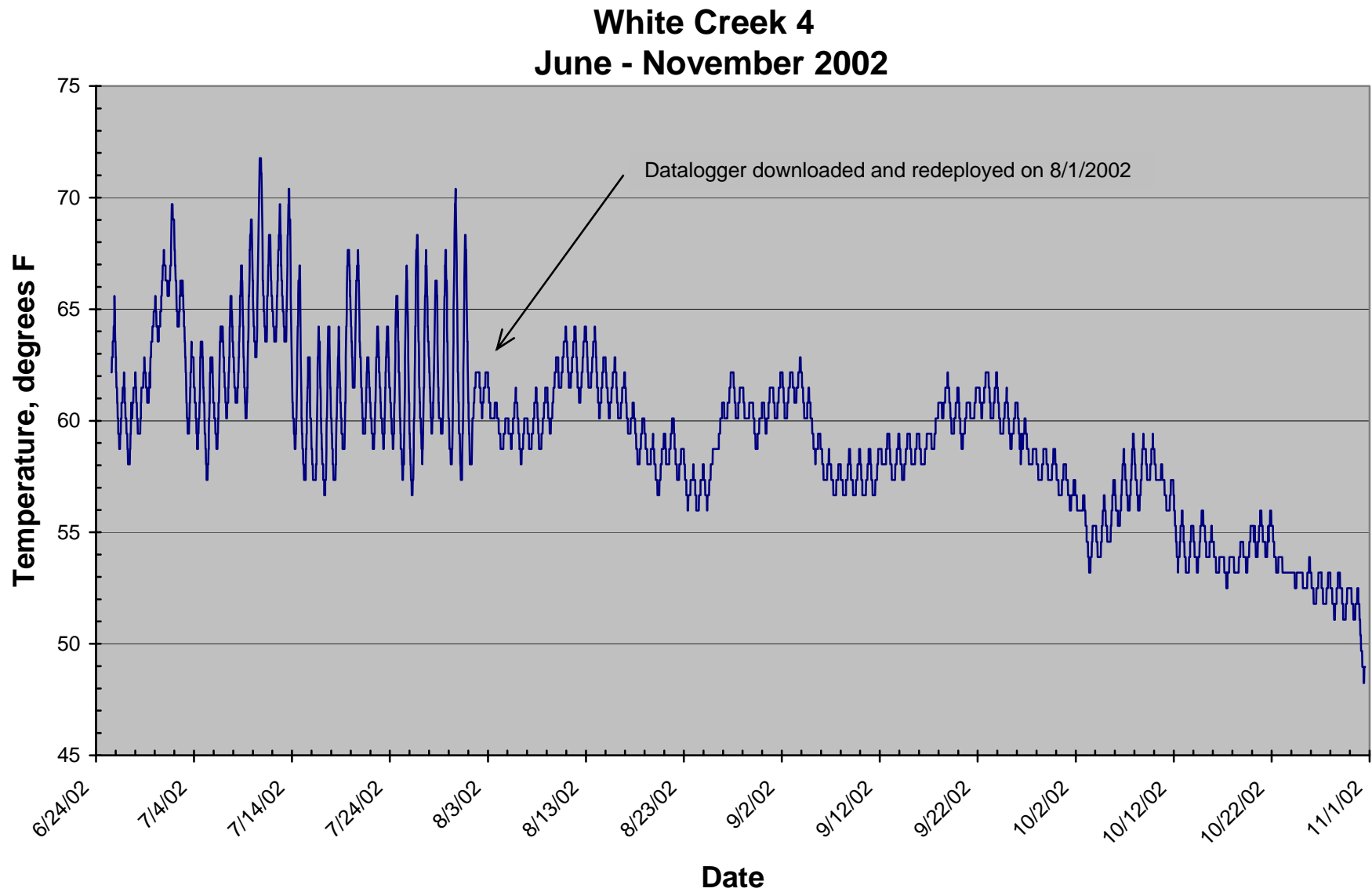


Figure WC-4. White Creek 4, 2002.

### White Creek 1 May - November 2003

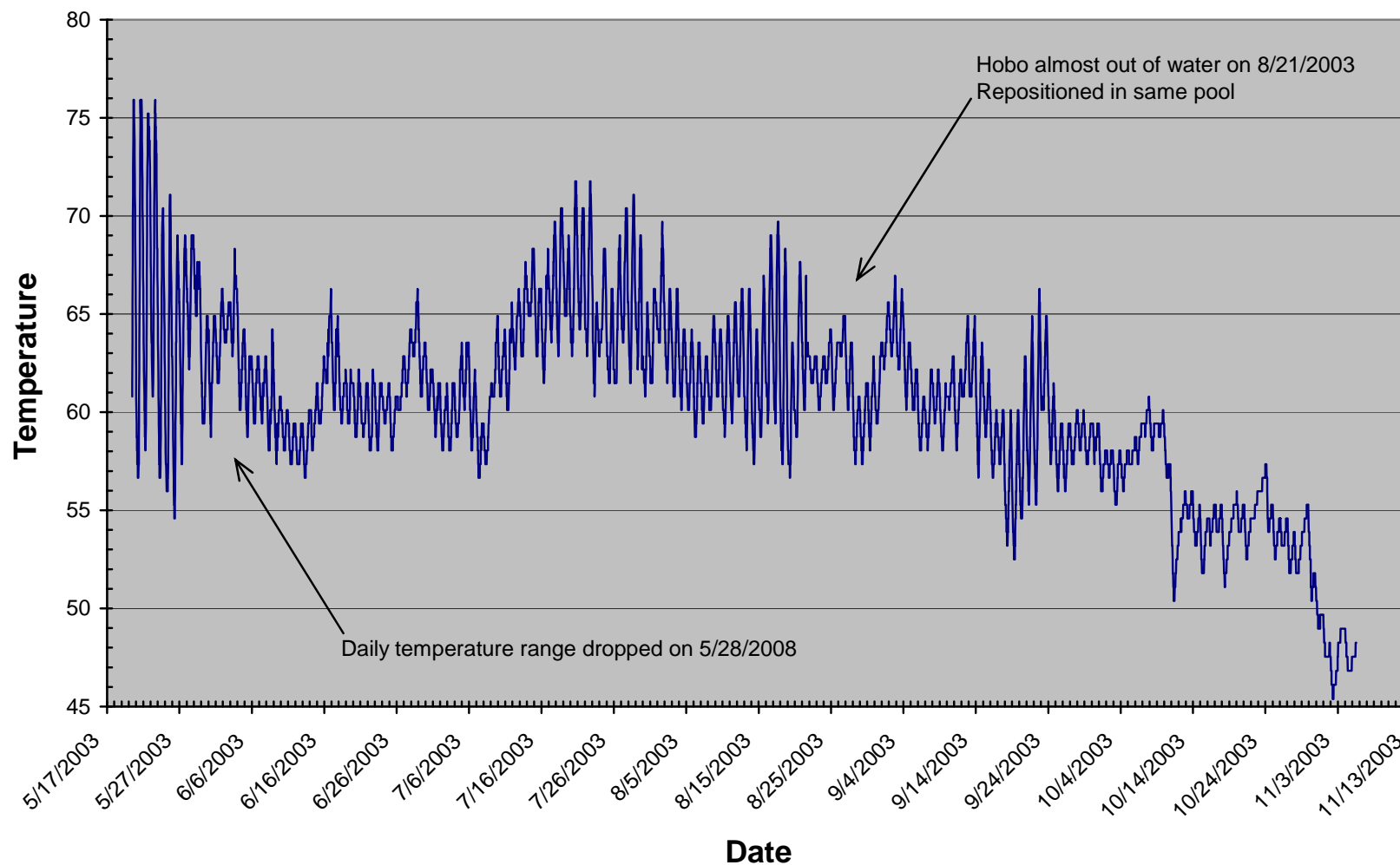


Figure WC-5. White Creek 1, 2003. Data logger was found partially exposed on 8/21/2003. Unit was repositioned in the same pool. The daily range in water temperature declined on 5/29/2003. The change in daily range may indicate that the surface water inflow into the pool at WC-1 diminished to the point where the groundwater inflow became the dominant factor determining the temperature.

### White Creek 2 May - August 2003

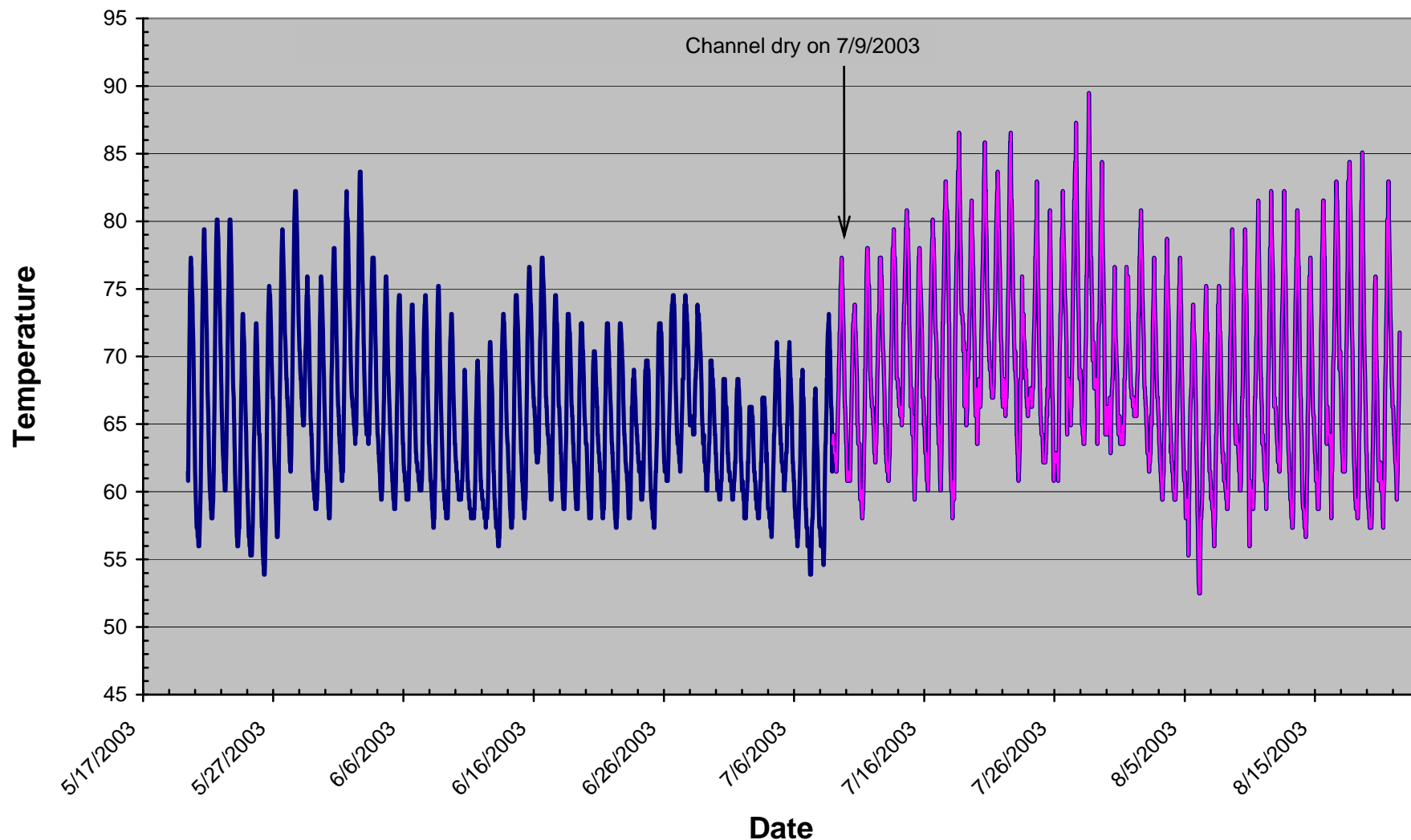


Figure WC-6. White Creek 2, 2003.

### White Creek 3 May-August 2003

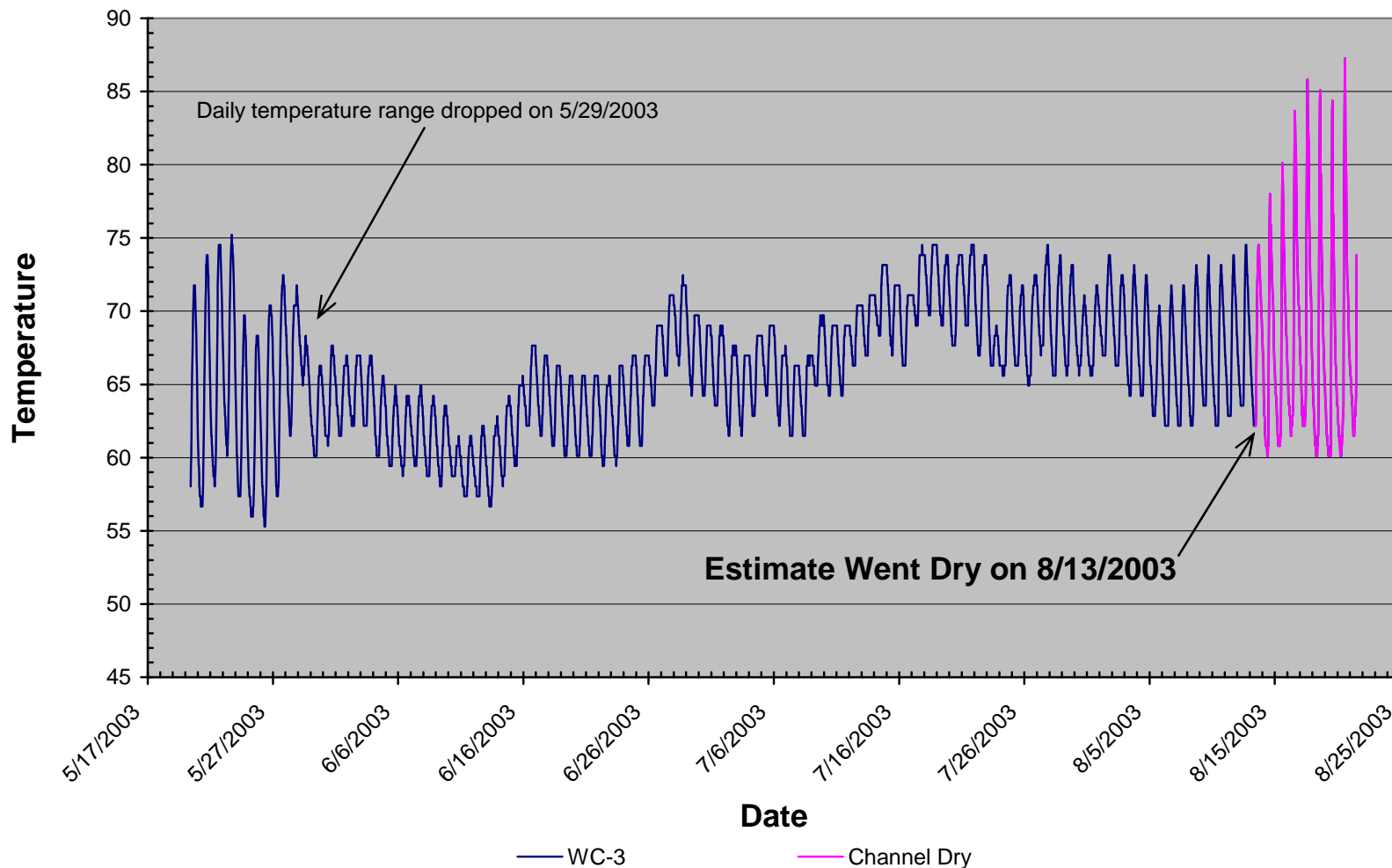


Figure WC-7. White Creek 3, 2003. The daily range in water temperature declined on 5/29/2003. The change in daily range may indicate that the surface water inflow into the pool at WC-3 diminished to the point where the groundwater inflow became the dominant factor determining the temperature.

### White Creek 4 May - November 2003

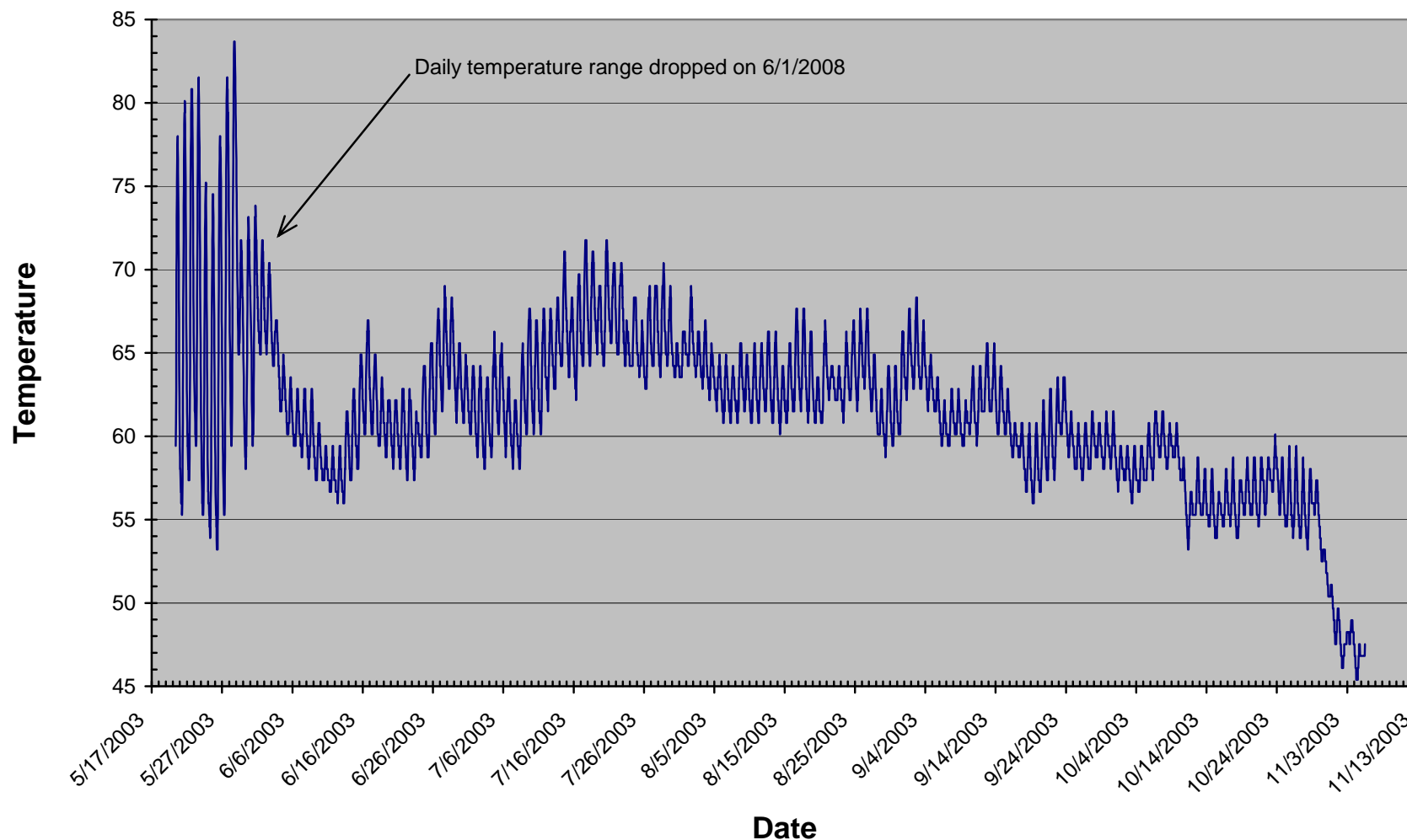


Figure WC-8. White Creek 4, 2003. The daily range in water temperature changed on 6/1/2003. The change in daily range may indicate that the surface water inflow into the pool at WC-4 diminished to the point where the groundwater inflow became the dominant factor determining the temperature.

### White Creek 1 July - September 2005

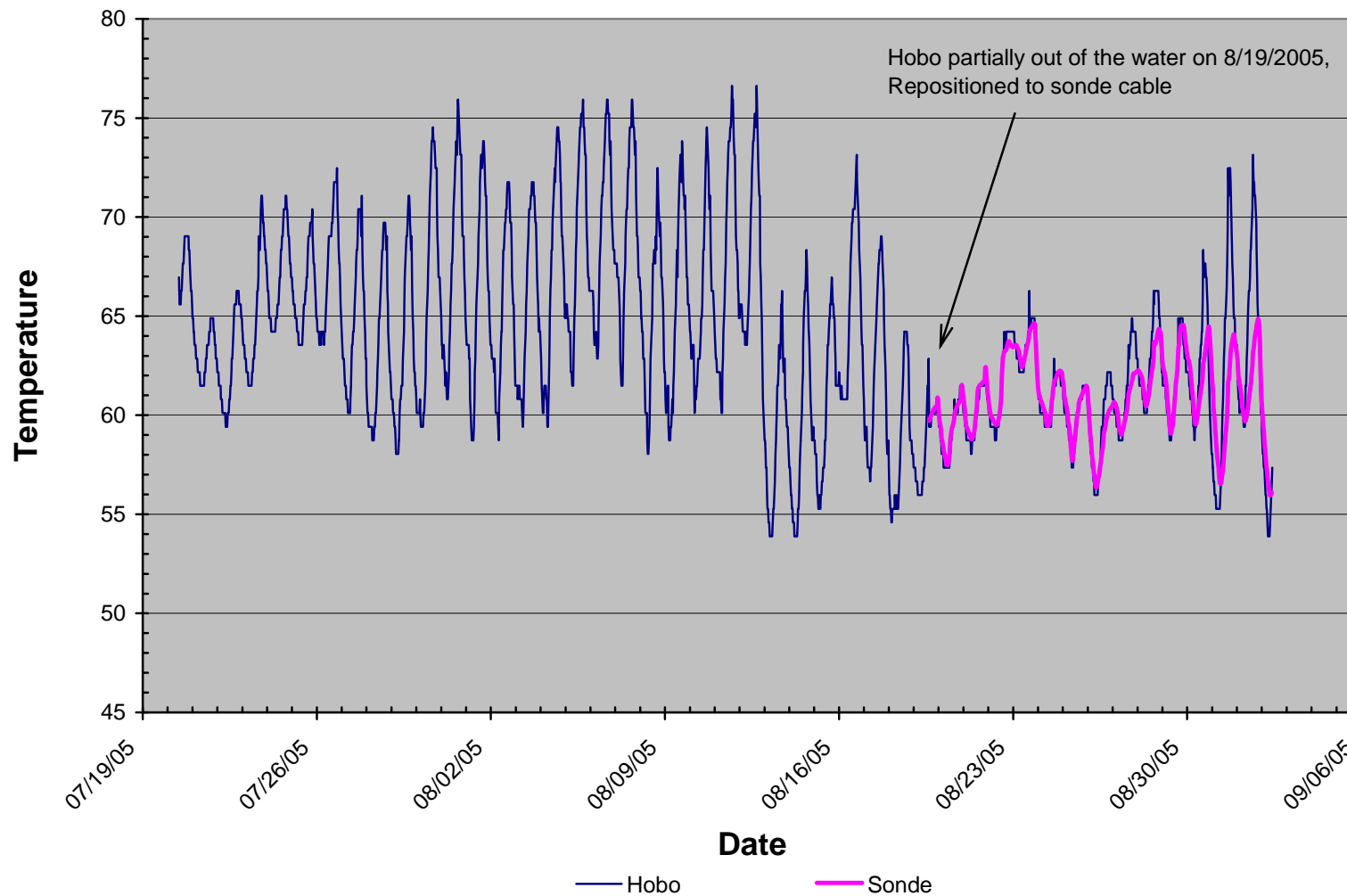


Figure WC-9. White Creek 1, 2005. Hobo Temp was found partially out of the water on 8/19/2005 and was repositioned to the sonde cable.



Neither WC-2 nor WC-3 were deployed in 2005 because the channel was nearly dry on July 20, 2005.

### White Creek 4 June - November 2005

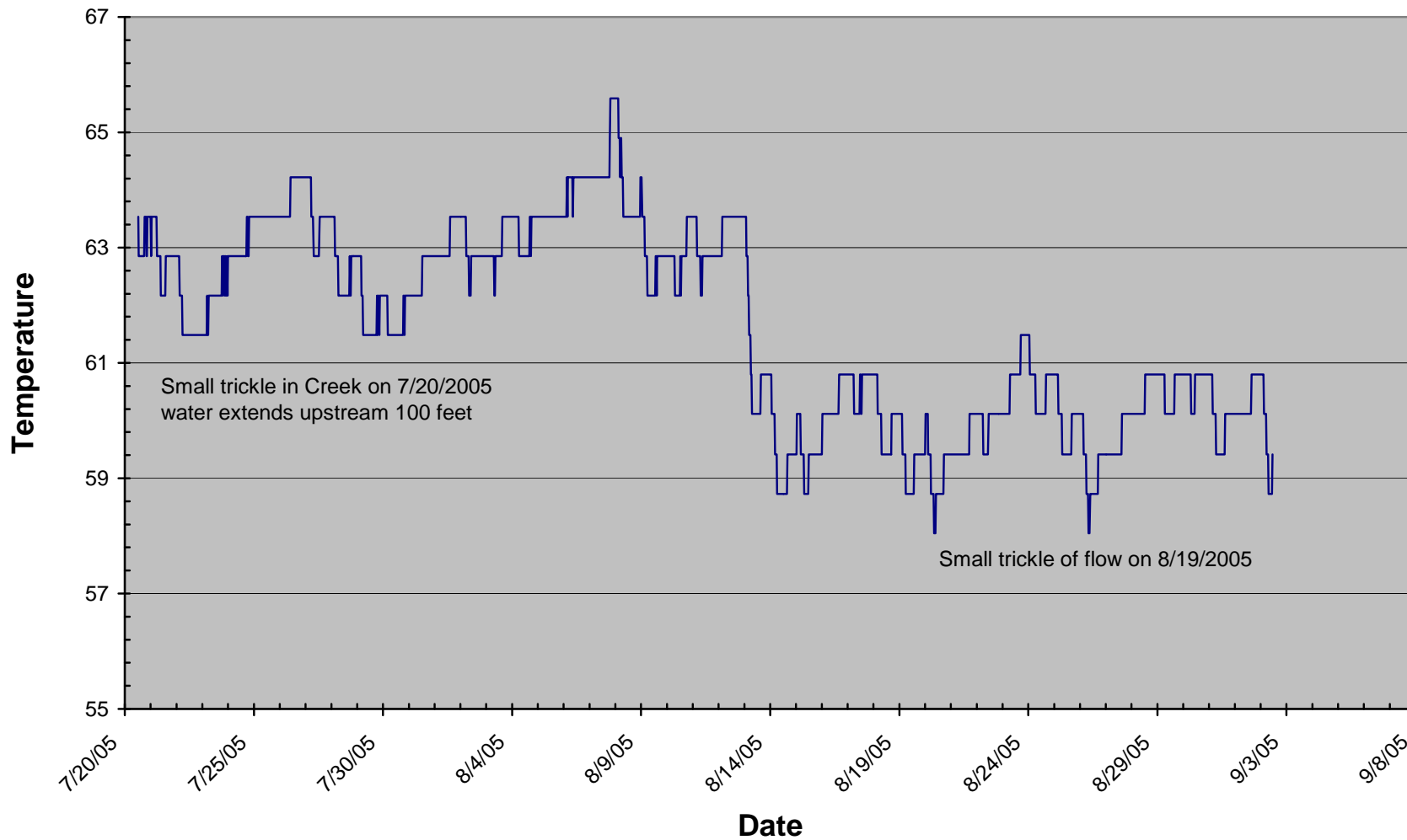


Figure WC-10. White Creek 4, 2005.

### White Creek 1 June 12 - October 20, 2006

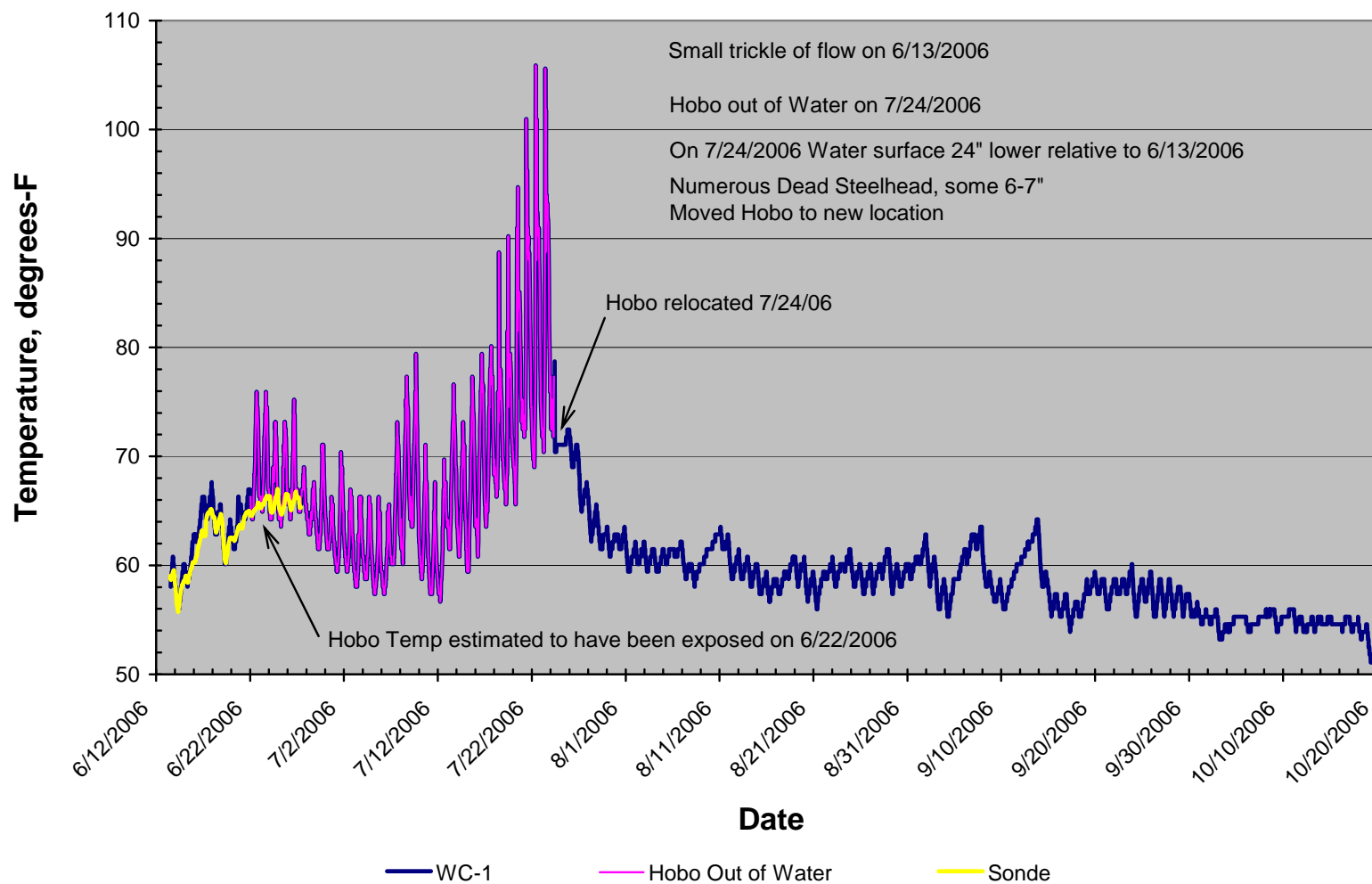


Figure WC-11. White Creek 1, 2006. The Hobo Temp was found out of the water on 7/24/2006 and was repositioned. Comparison to the Sonde temperature record suggests that the Hobo became exposed around 6/22/2006. Numerous dead steelhead were found on 7/24/2006. The sonde reported DO less than 3 mg/l between 6/20 and 6/24. Air temperature at WV-7 exceeded 100<sup>0</sup> F on 7/21-7/24. There was a small trickle of flow on 6/13/2006 but the pool was isolated on 7/24/2006.

### White Creek 2 June 13 - July 24, 2006

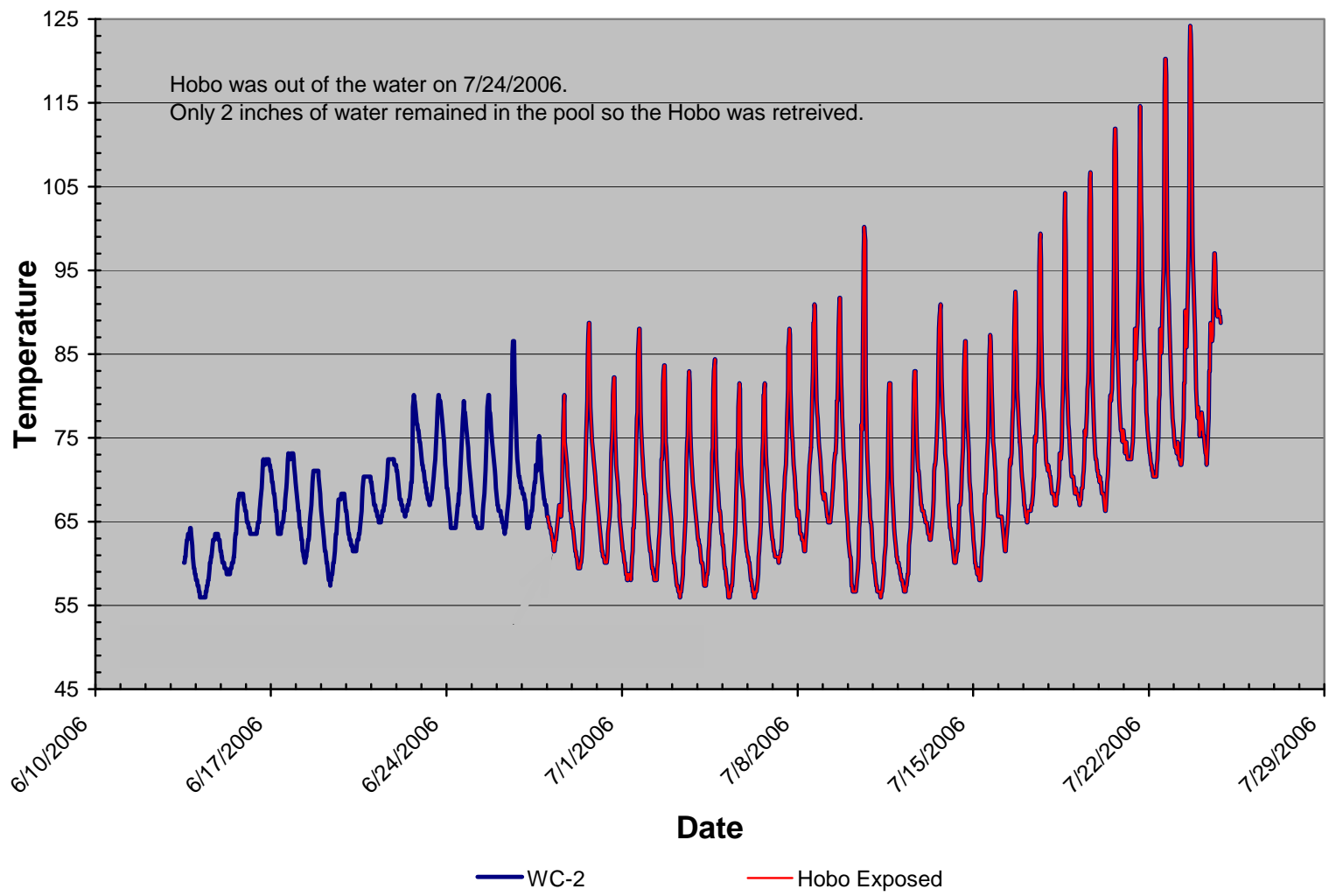


Figure WC-12. White Creek 2, 2006. The Hobo Temp was found out of the water on 7/24/2006. Only 2 inches of water remained in the pool so the Hobo was not redeployed.

### White Creek 3 June 13 - July 24, 2006

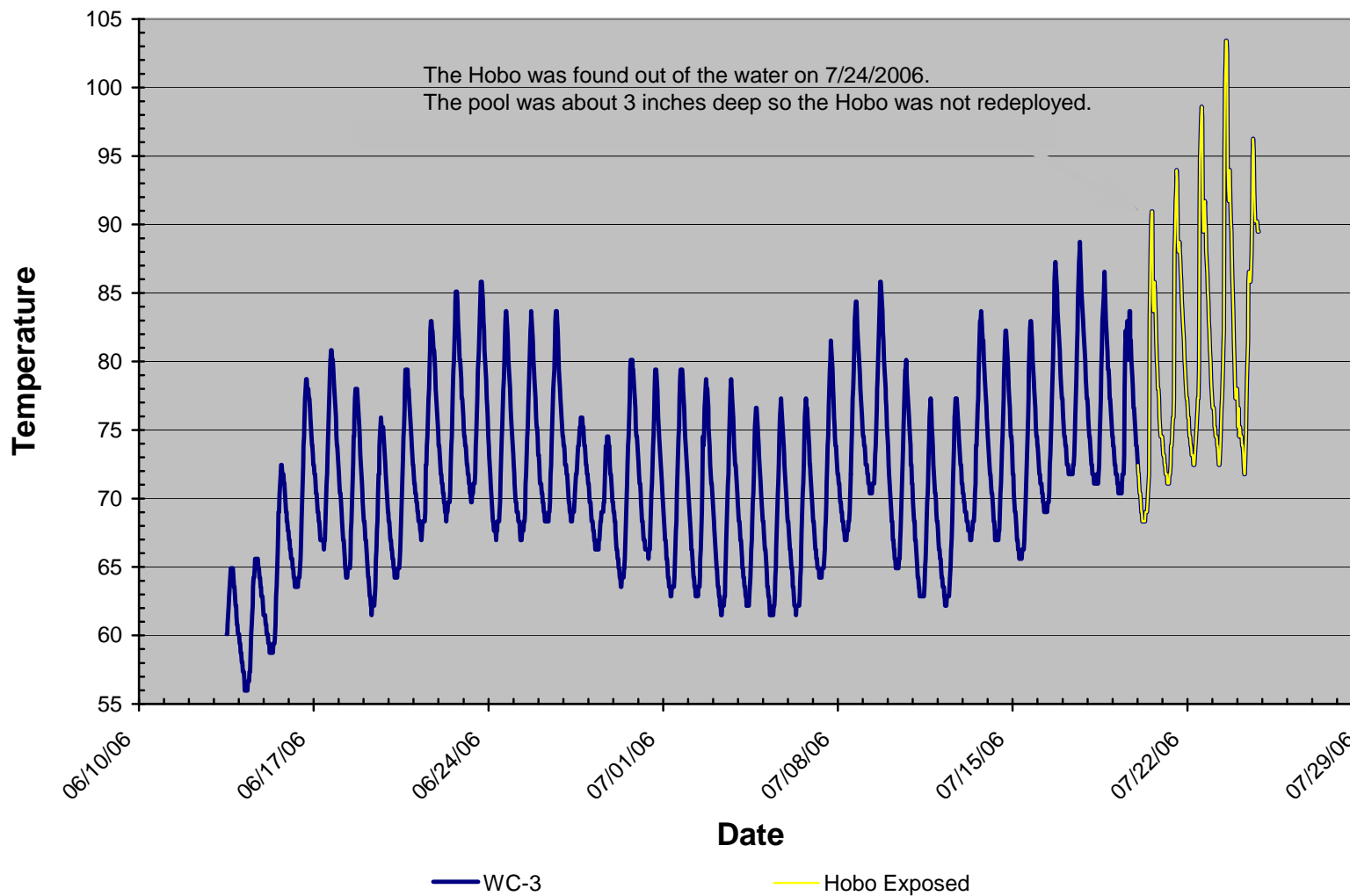


Figure WC-13. White Creek 3, 2006. The Hobo Temp was found out of the water on 7/24/2006. Only 3 inches of water remained in the pool so the Hobo was not redeployed.

### White Creek 4 June - October 2006

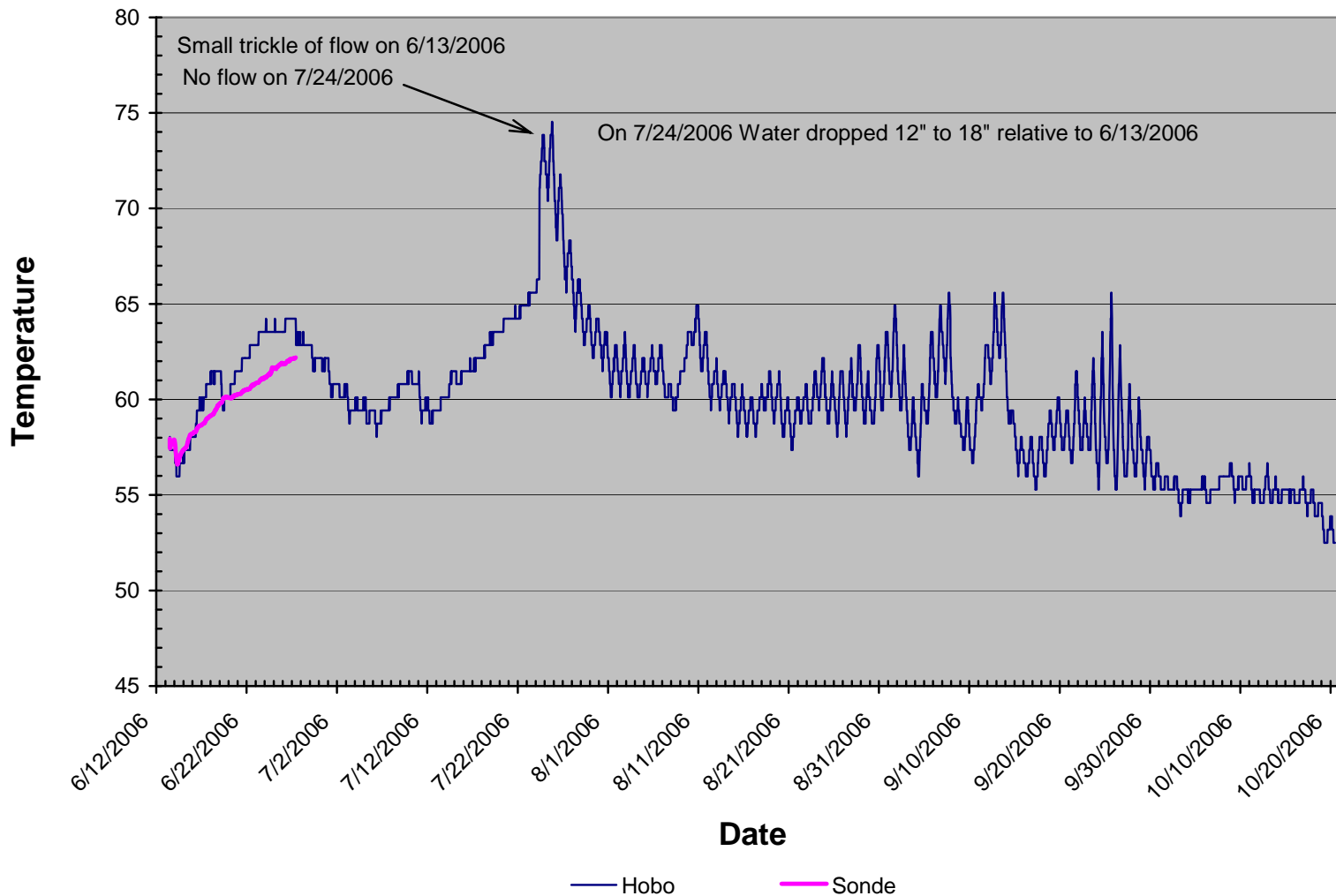


Figure WC-14. White Creek 4, 2006. The pool at WC-4 had become isolated by 7/24. A small trickle of flow was present on 6/13/06. The water surface appeared to have dropped 12-18 inches by 7/24/06.

### White Creek 0.5 May - August 2007

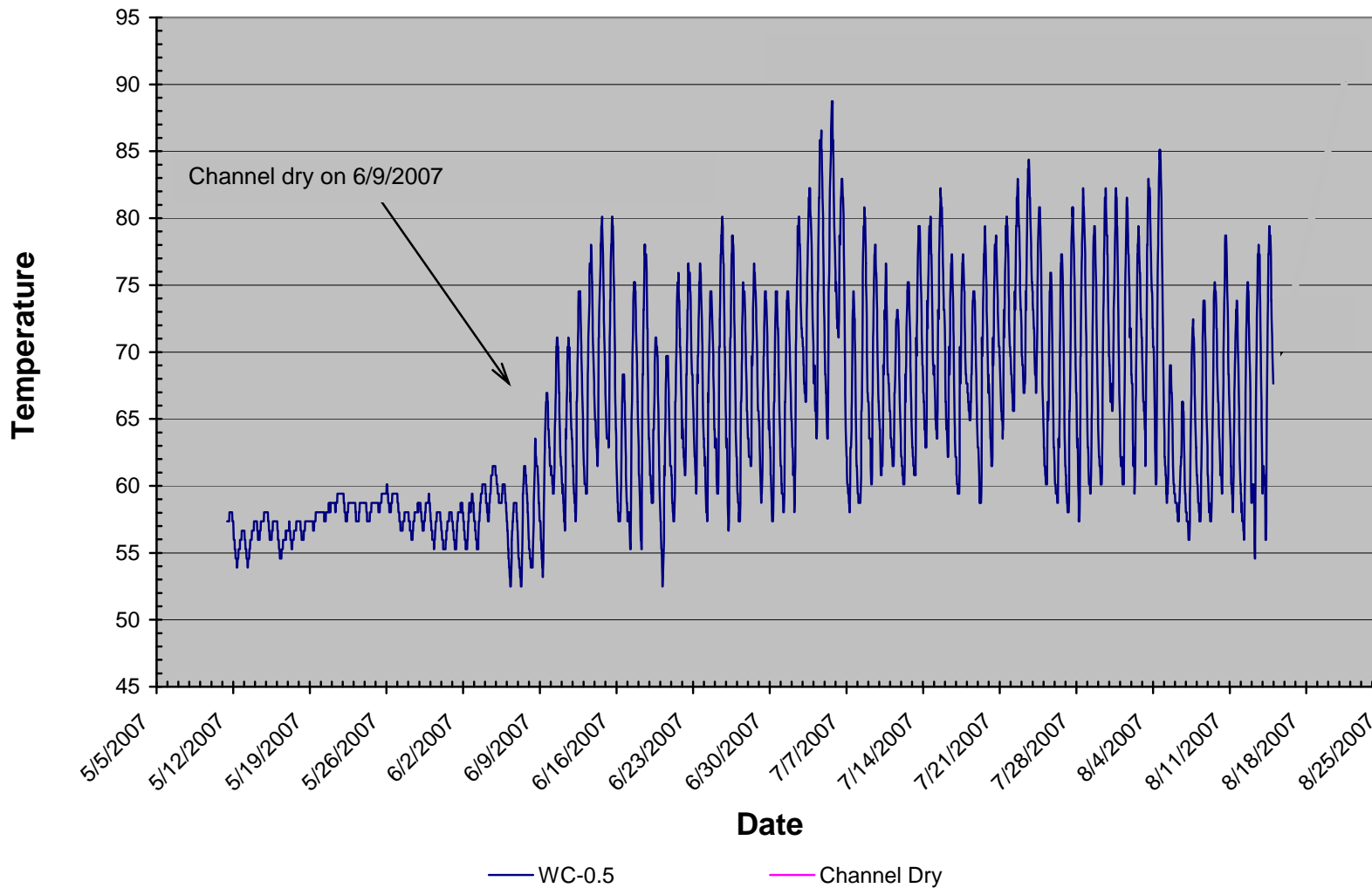


Figure WC-15. White Creek 0.2, 2007. The channel was dry on August 15, 2007.

### White Creek 1 June - October 2007

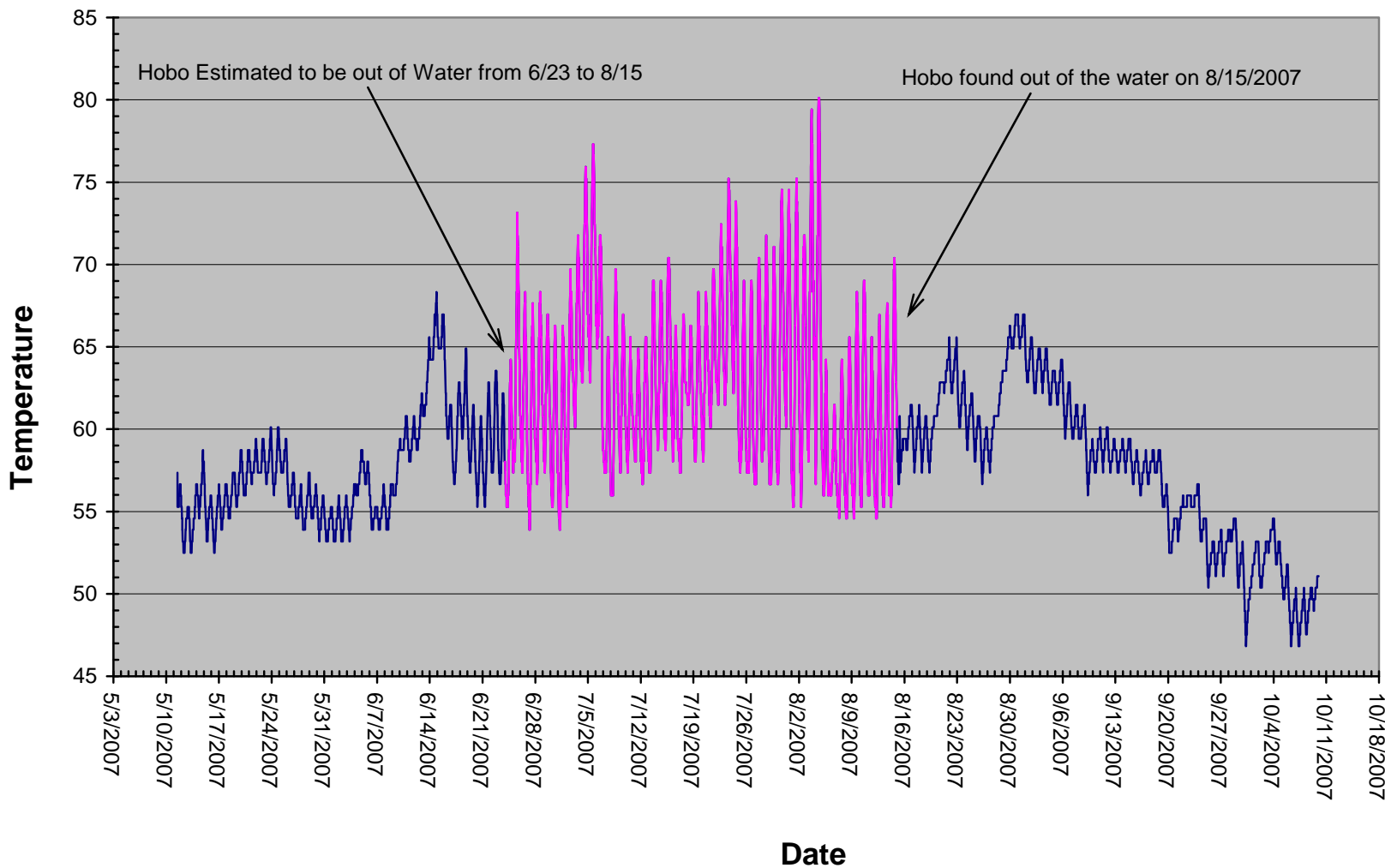


Figure WC-16. White Creek 1, 2007. The Hobo was out of the water on August 15, 2007. Estimate that the Hobo became exposed on 6/23/2007.



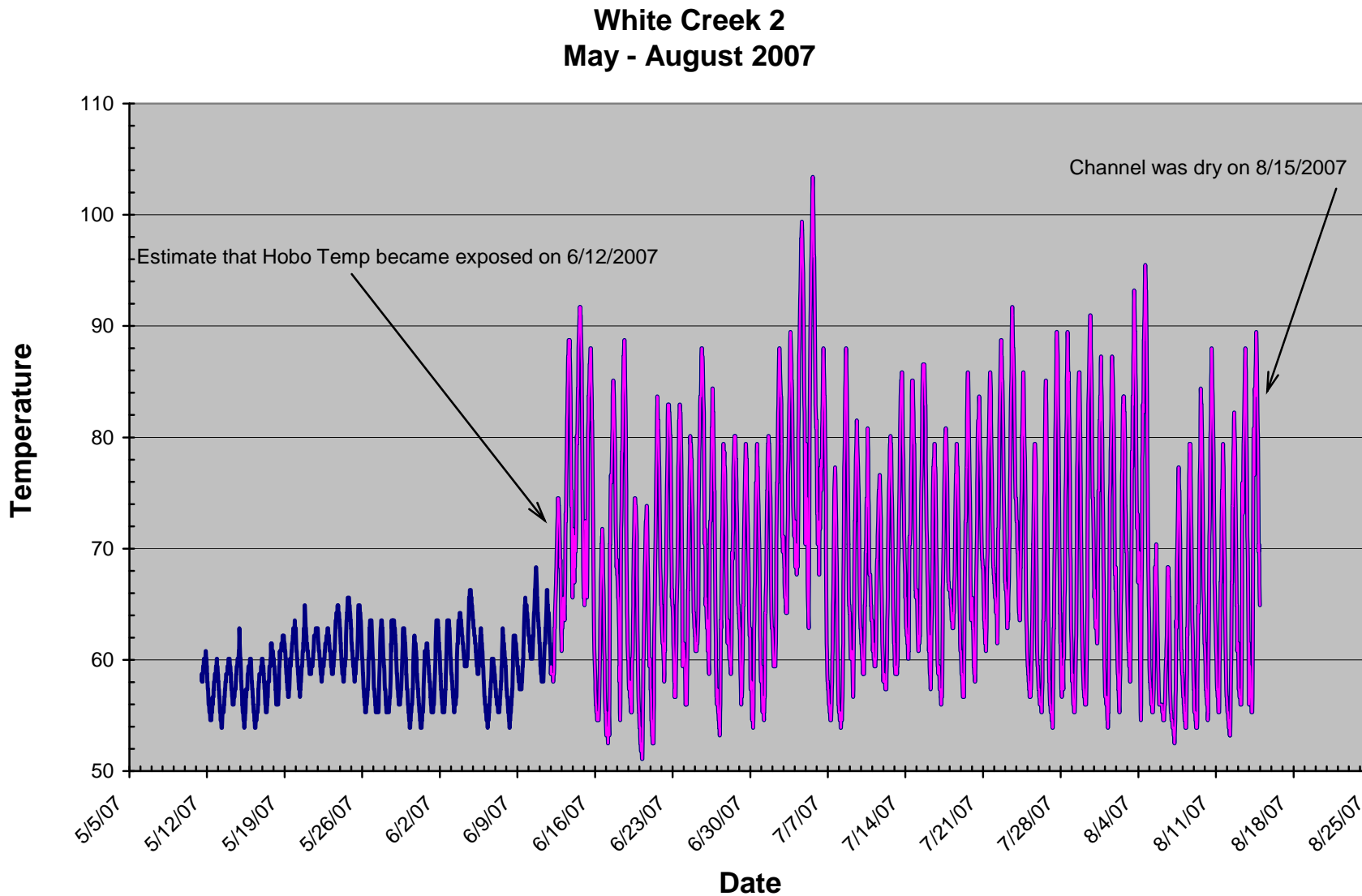


Figure WC-17. White Creek 2, 2007. The Hobo was out of the water on August 15, 2007. Estimate that the Hobo became exposed on 6/12/2007.

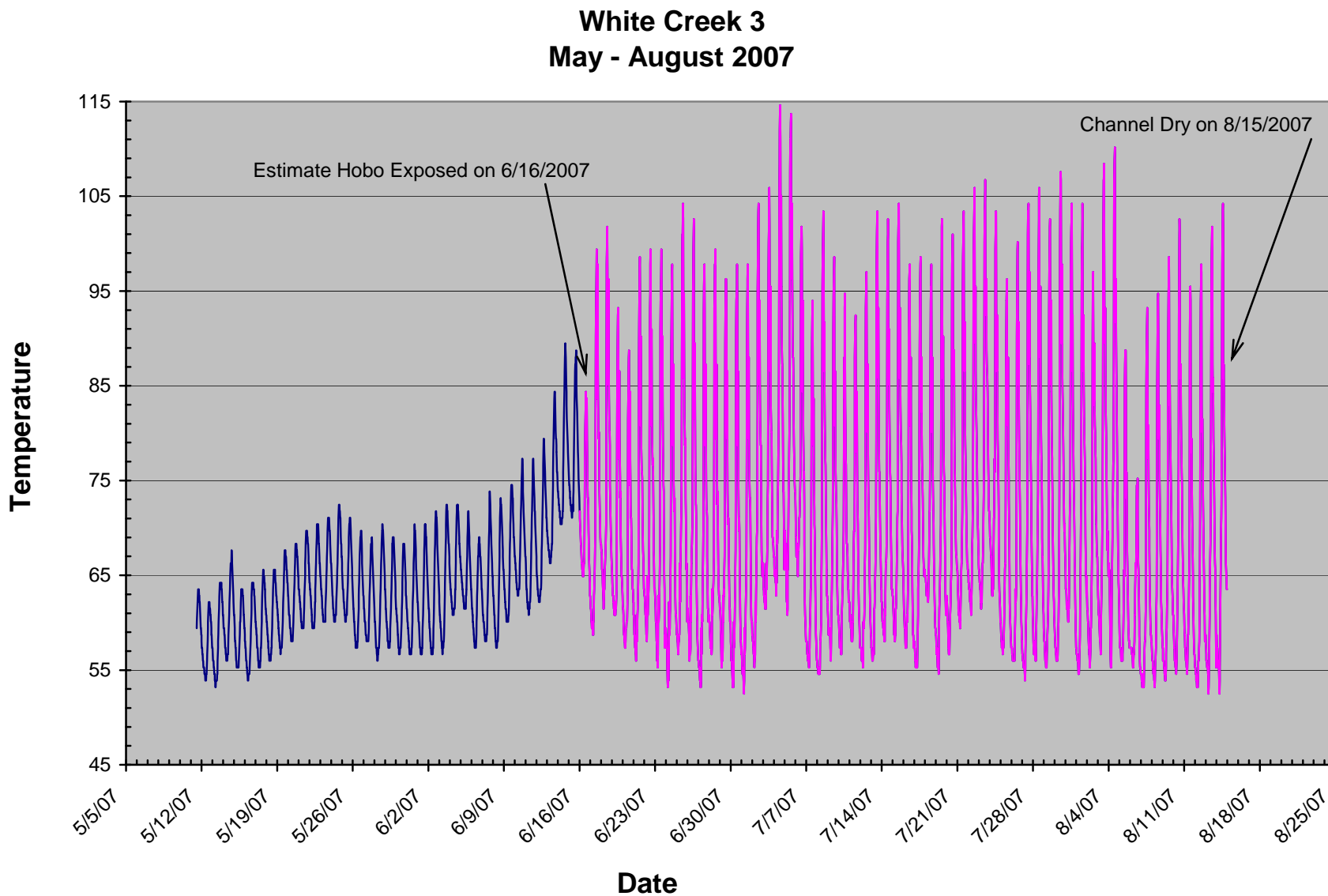


Figure WC-18. White Creek 3, 2007. The Hobo was out of the water on August 15, 2007. Estimate that the Hobo became exposed on 6/16/2007.

### White Creek 4 May - October 2007

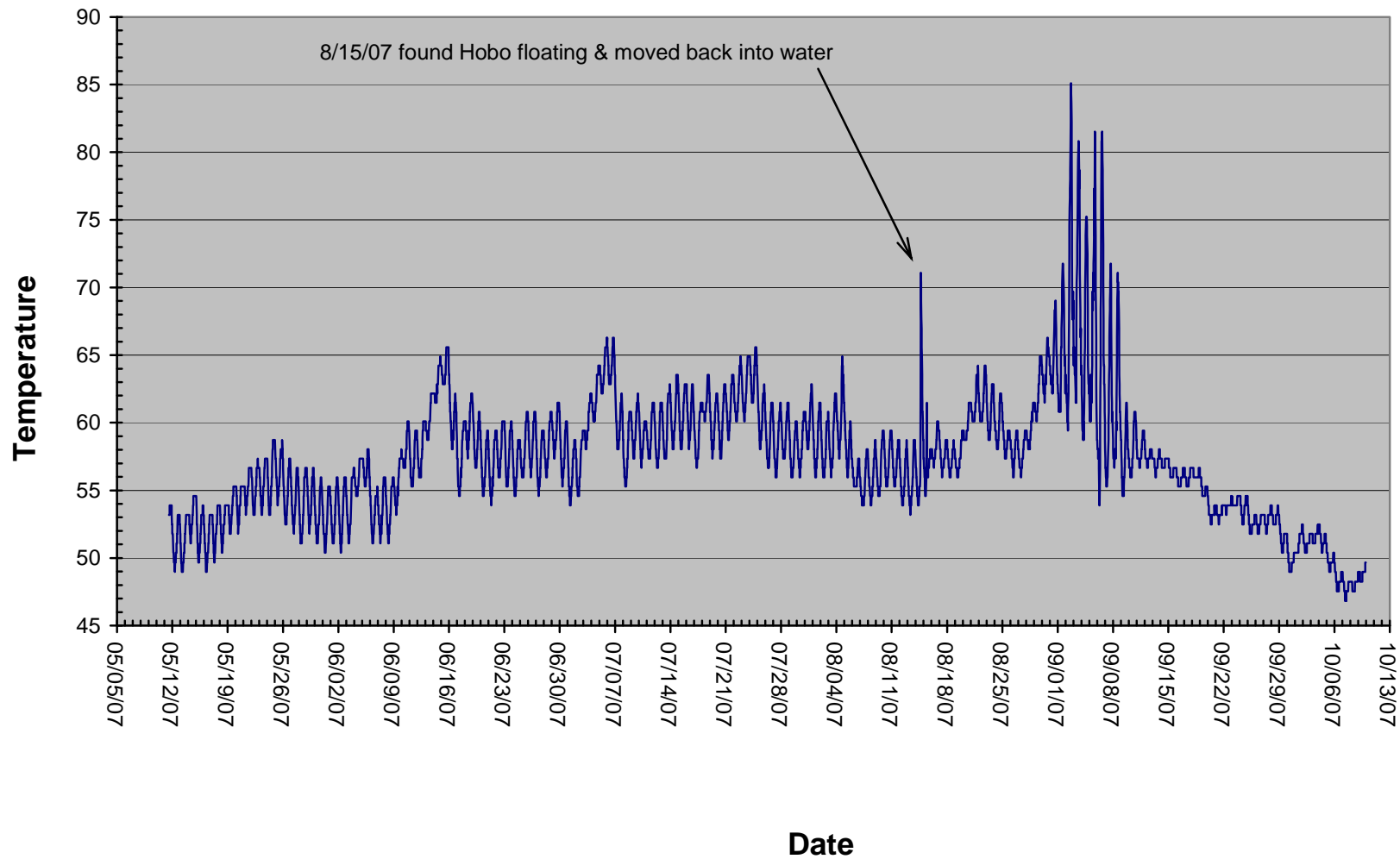


Figure WC-19. White Creek 4, 2007. The Hobo Temp was found floating on 8/15/2007 and was redeployed.

### White Creek 0.5 May - October 2009

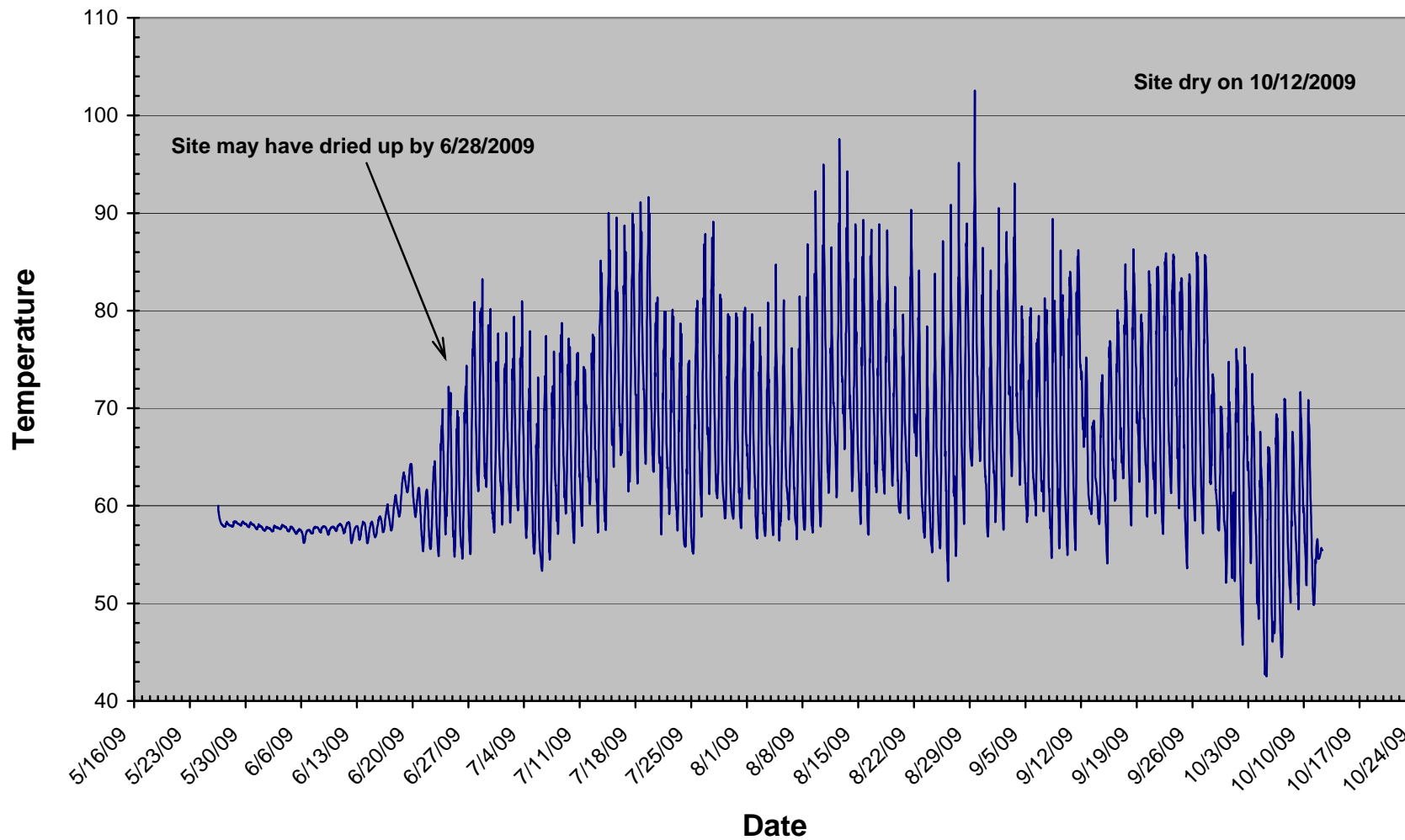


Figure WC-20. White Creek 0.5, 2009

### White Creek 1 May - October 2009

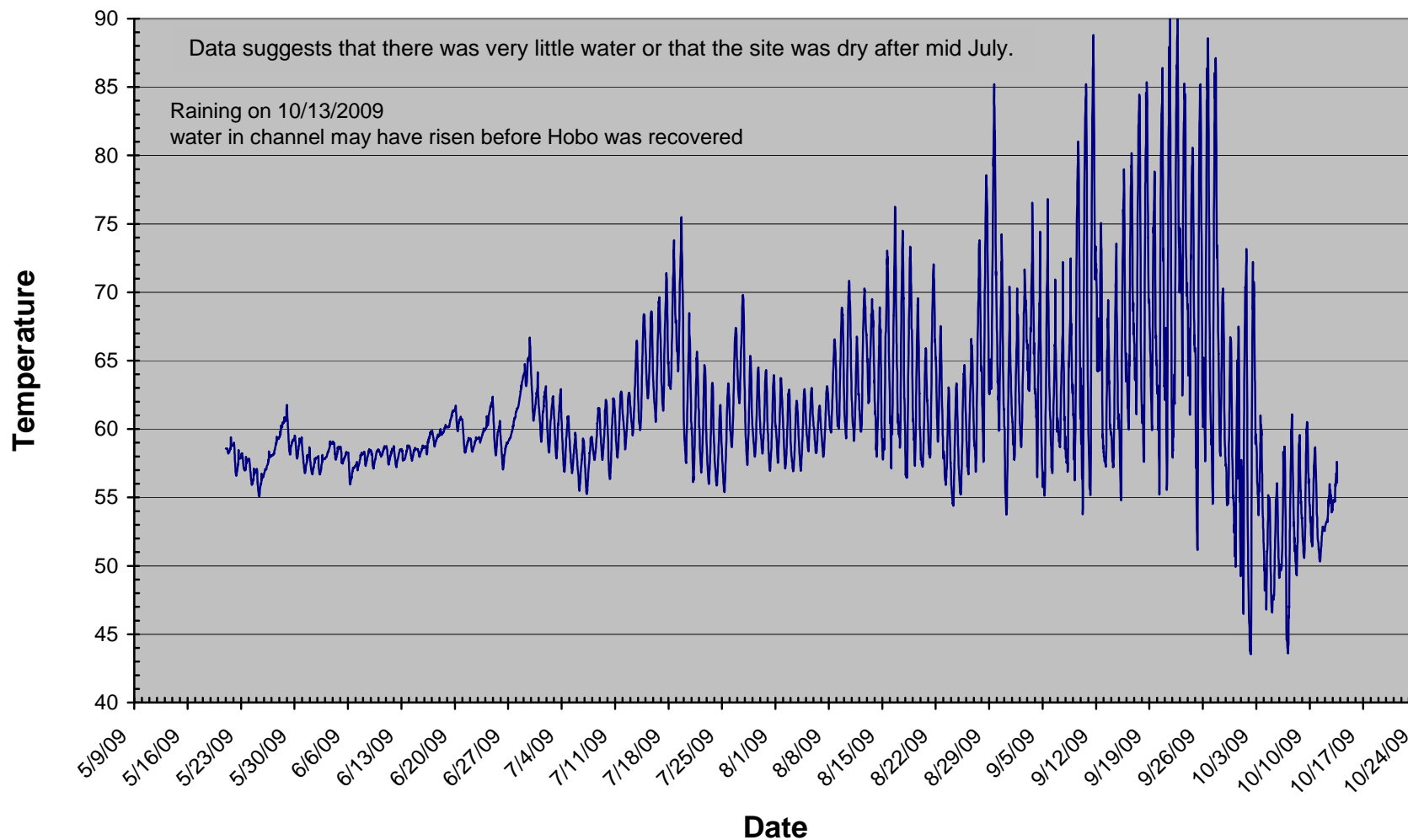


Figure WC-21. White Creek 1, 2009

### White Creek 2 May - October 2009

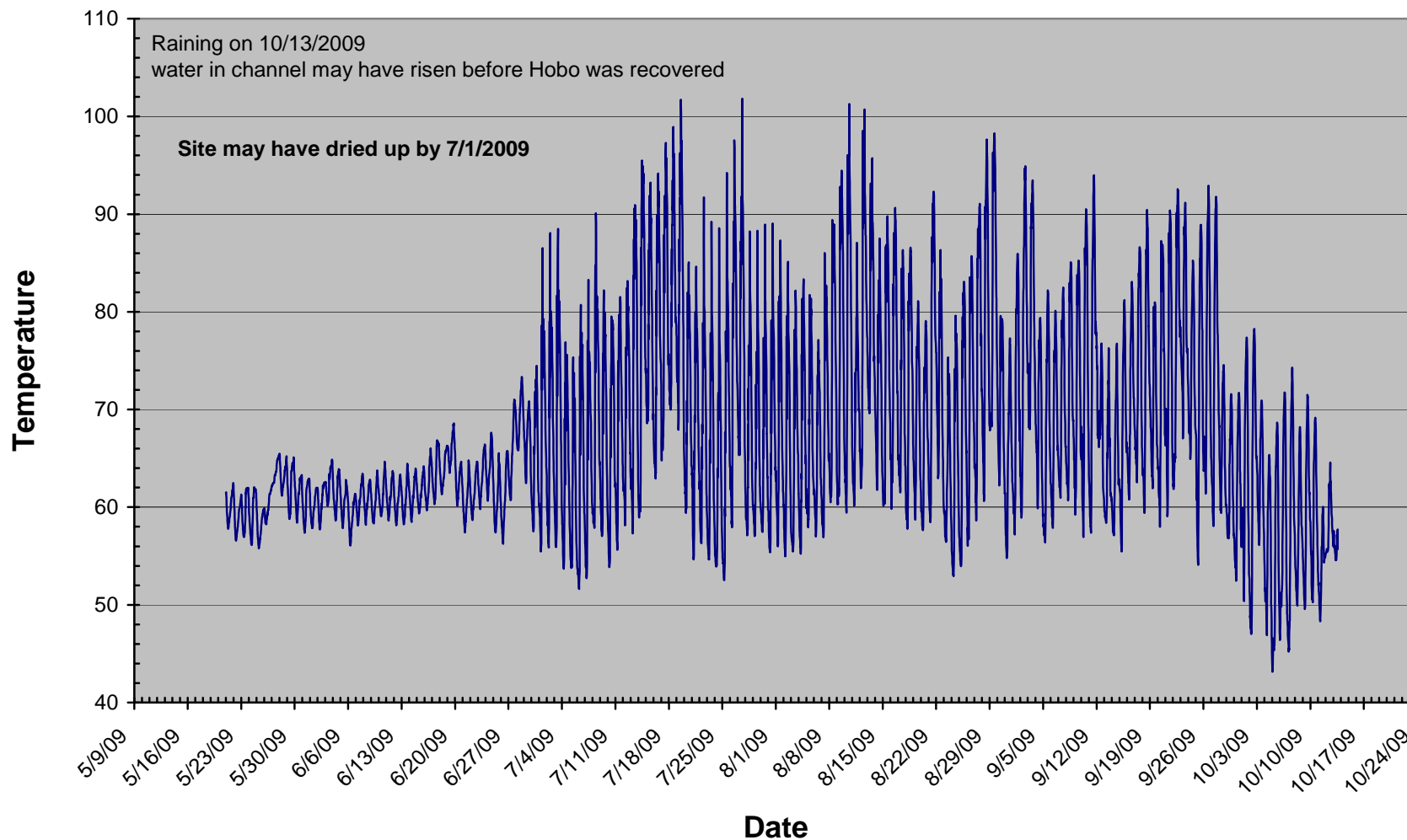


Figure WC-22. White Creek 2, 2009

### White Creek 3 May - October 2009

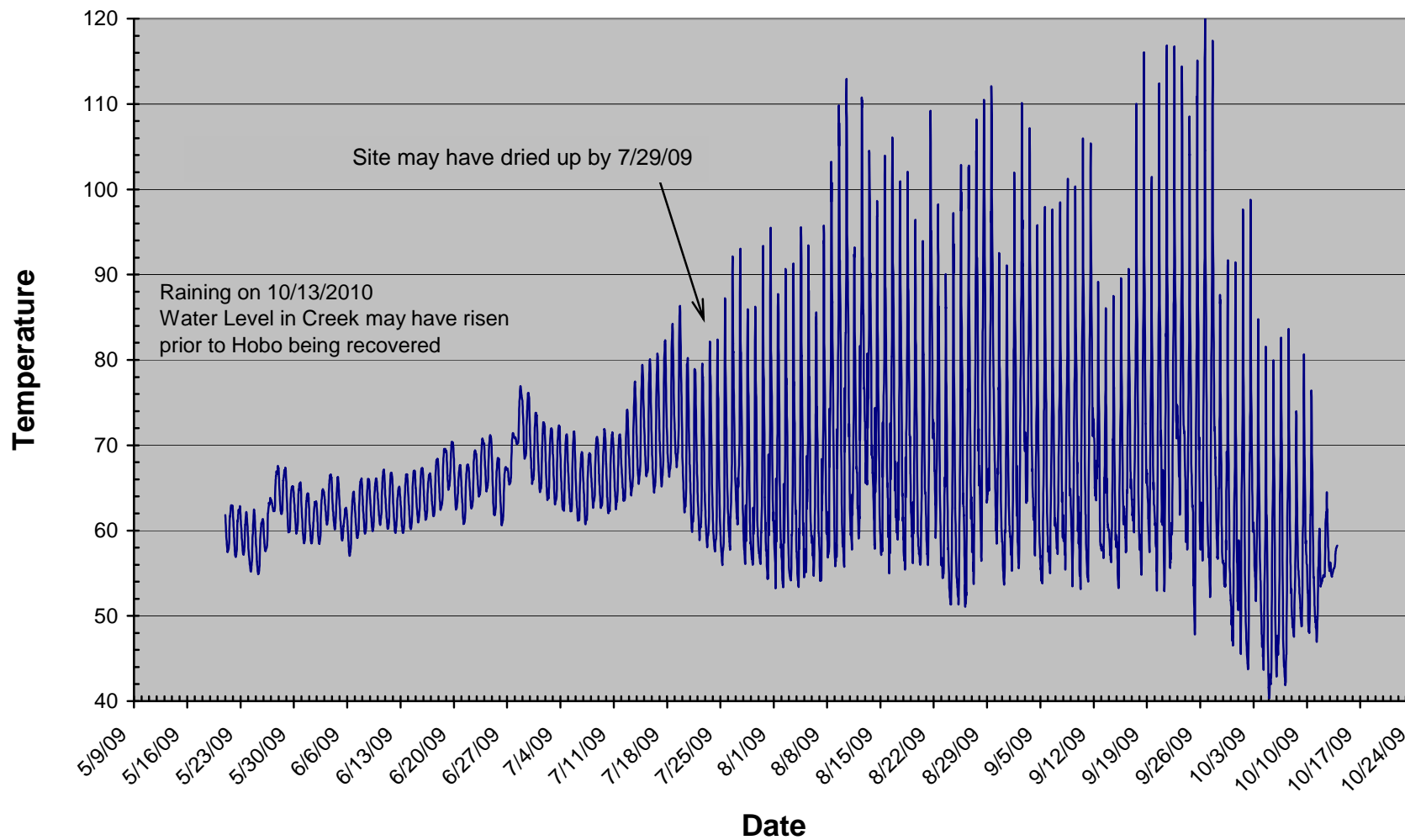


Figure WC-23. White Creek 3, 2009

### White Creek 4 May - October 2009

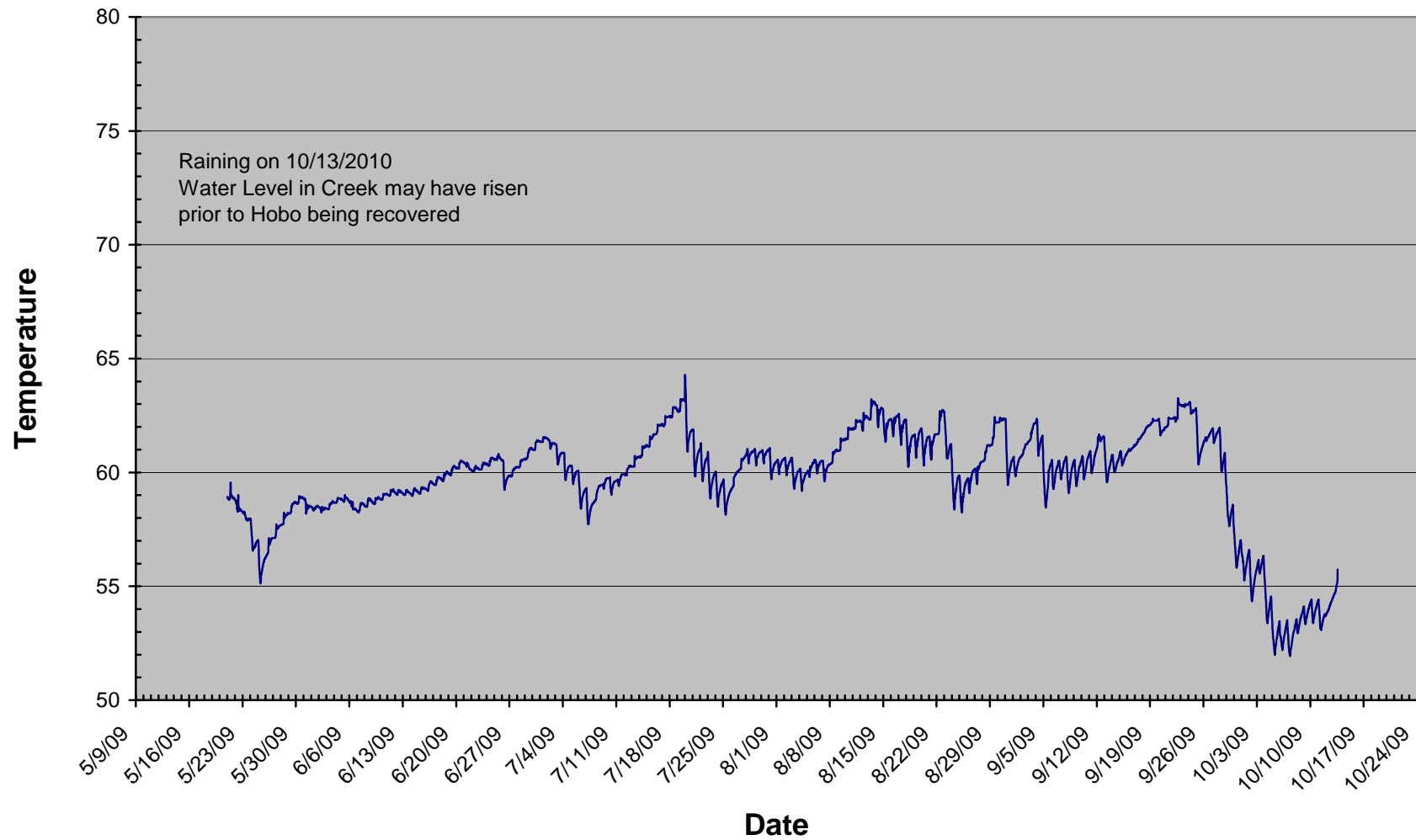


Figure WC-24. White Creek 4, 2009



### White Creek 0.5 June - October 2010

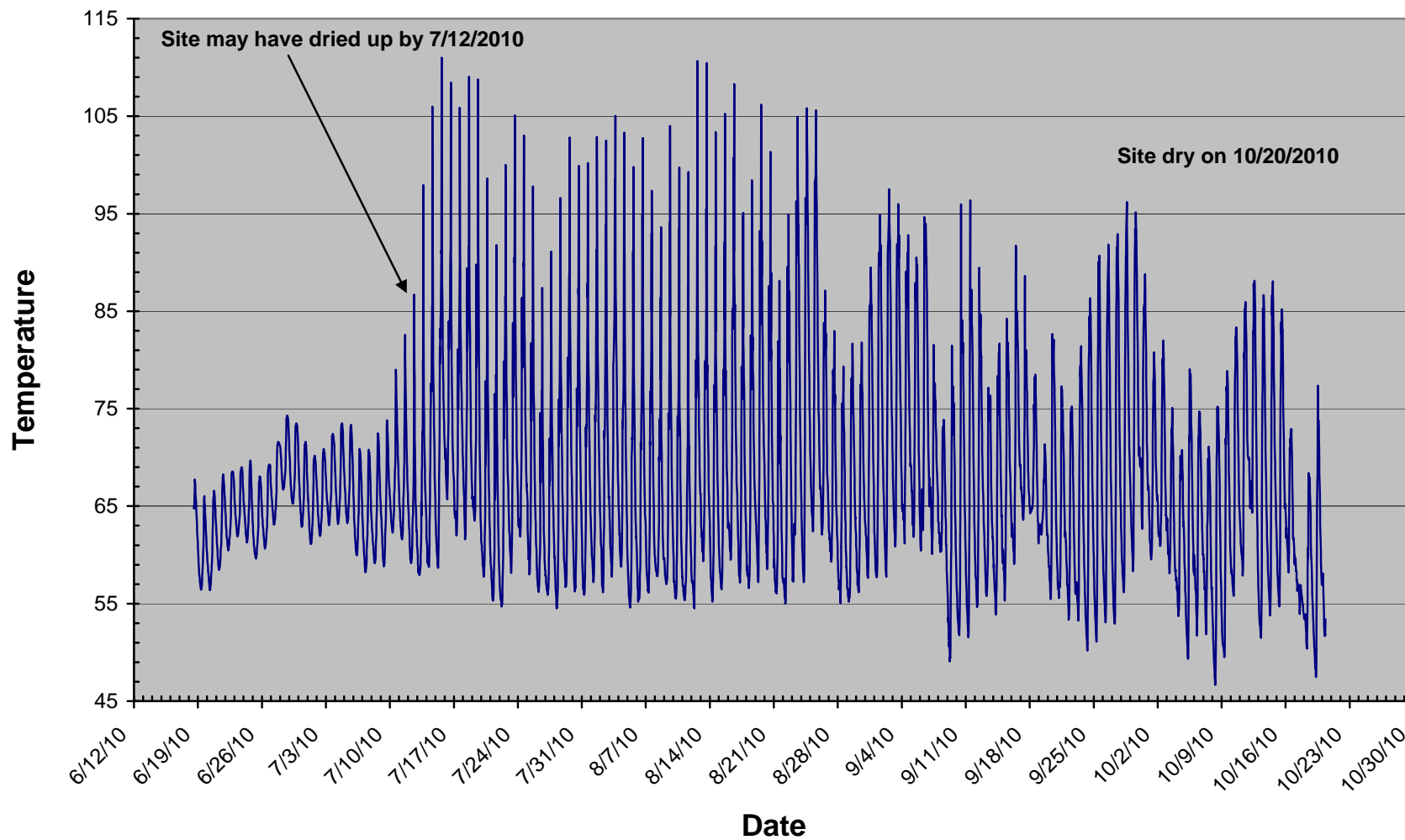


Figure WC-25. White Creek 0.5, 2010