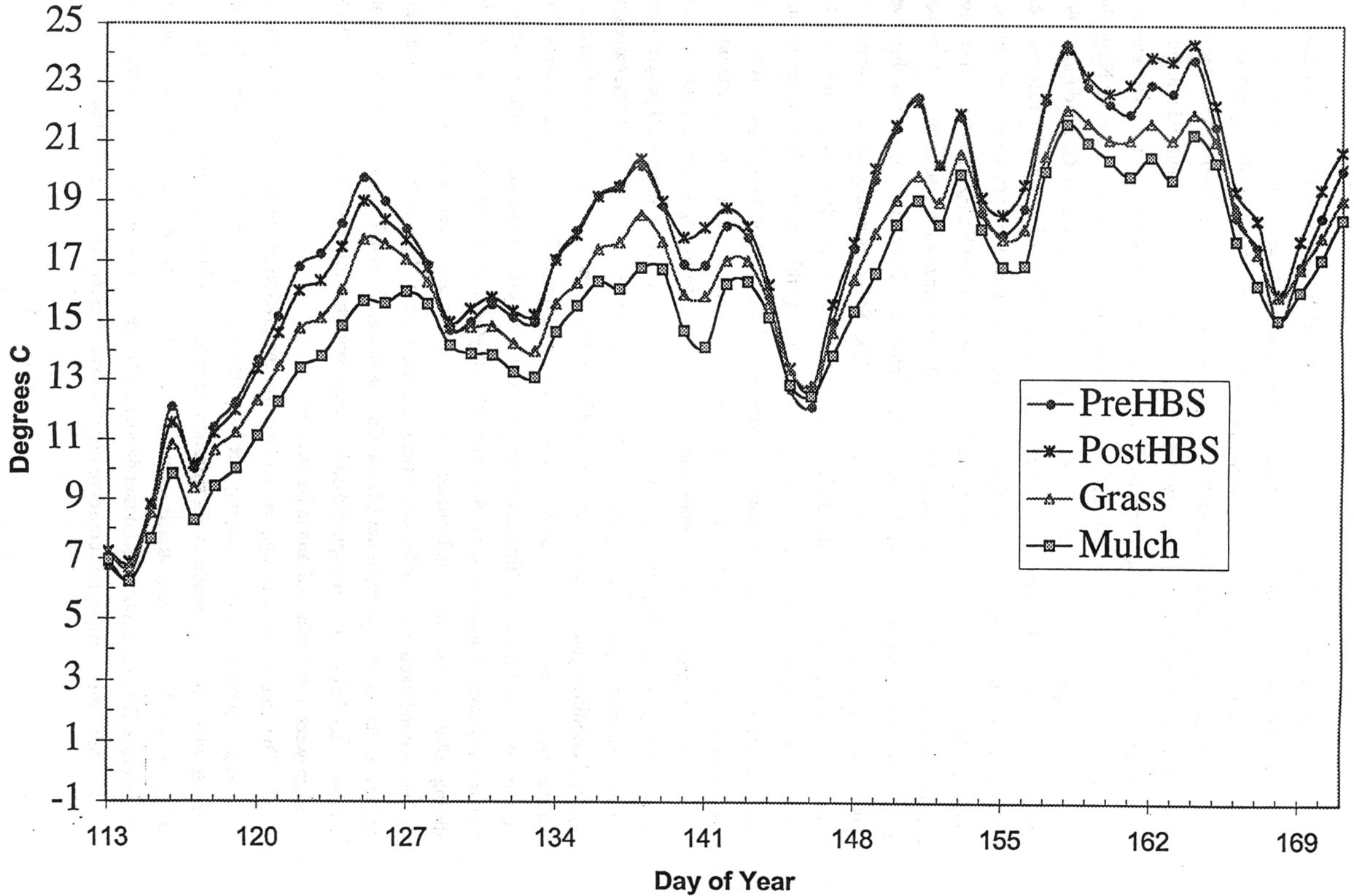
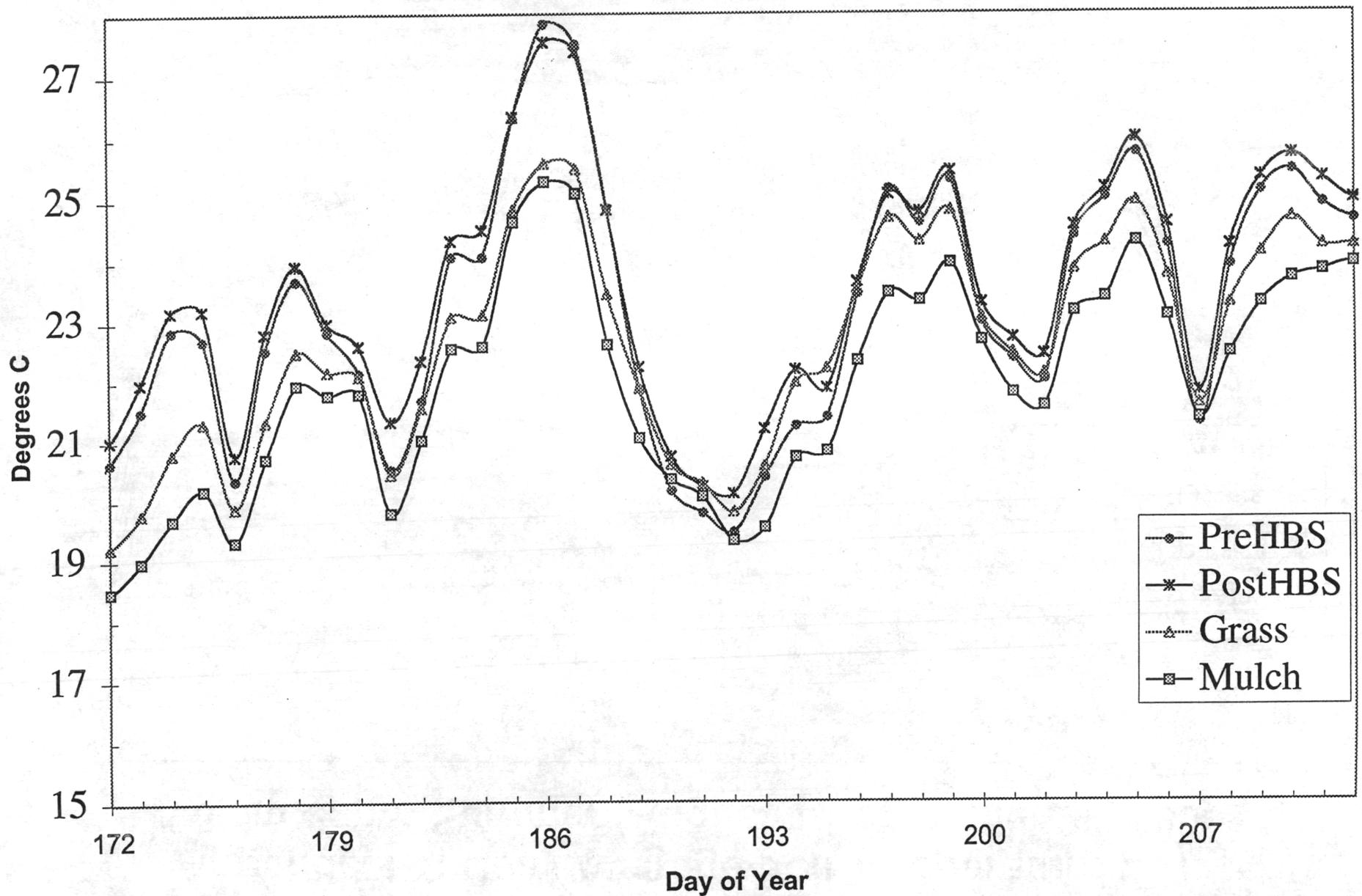


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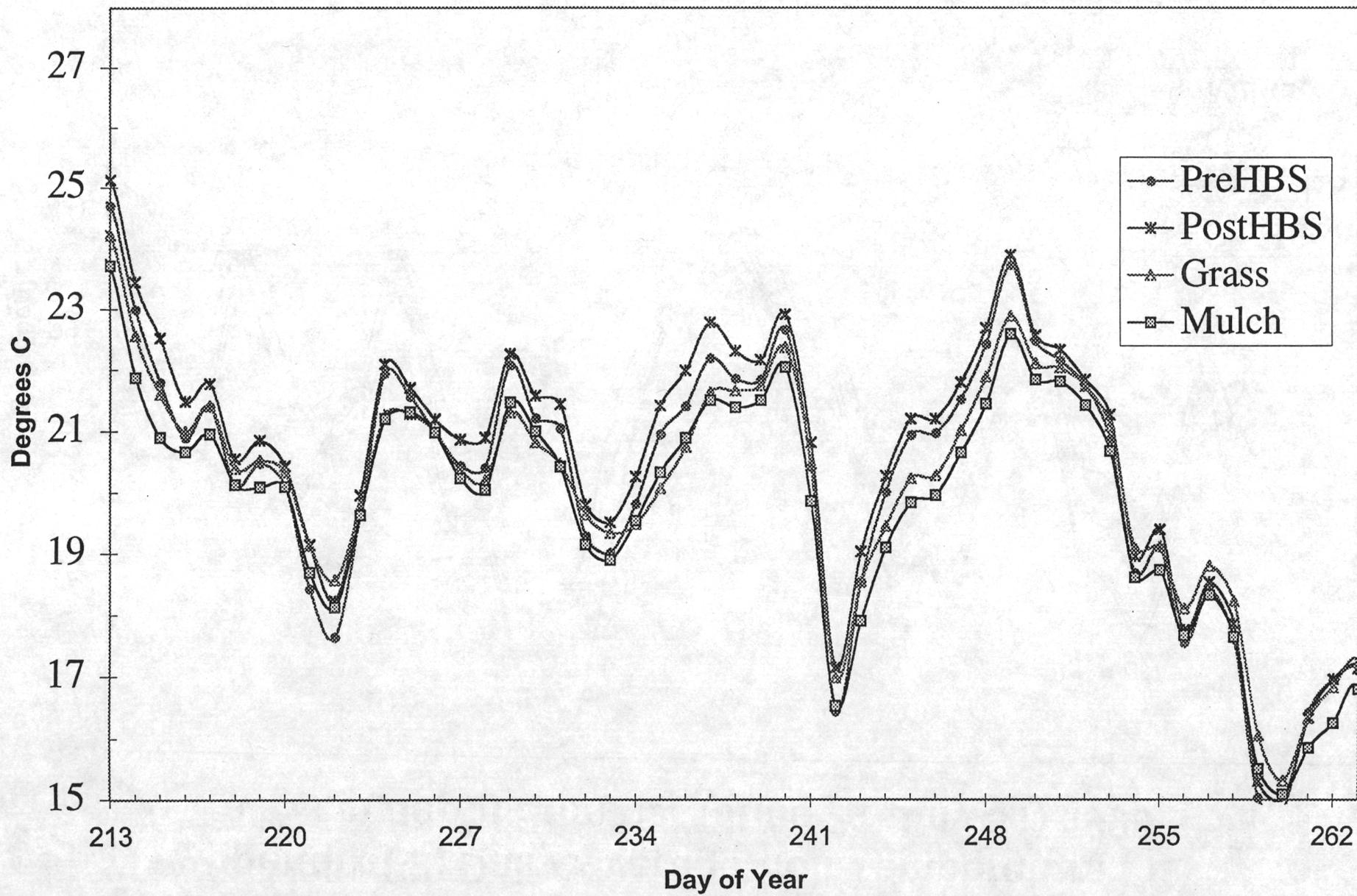
Appendix I-1: Daily Average Soil Temperature (°C) at 5 cm depth Spring (April 23-June 20) 1999



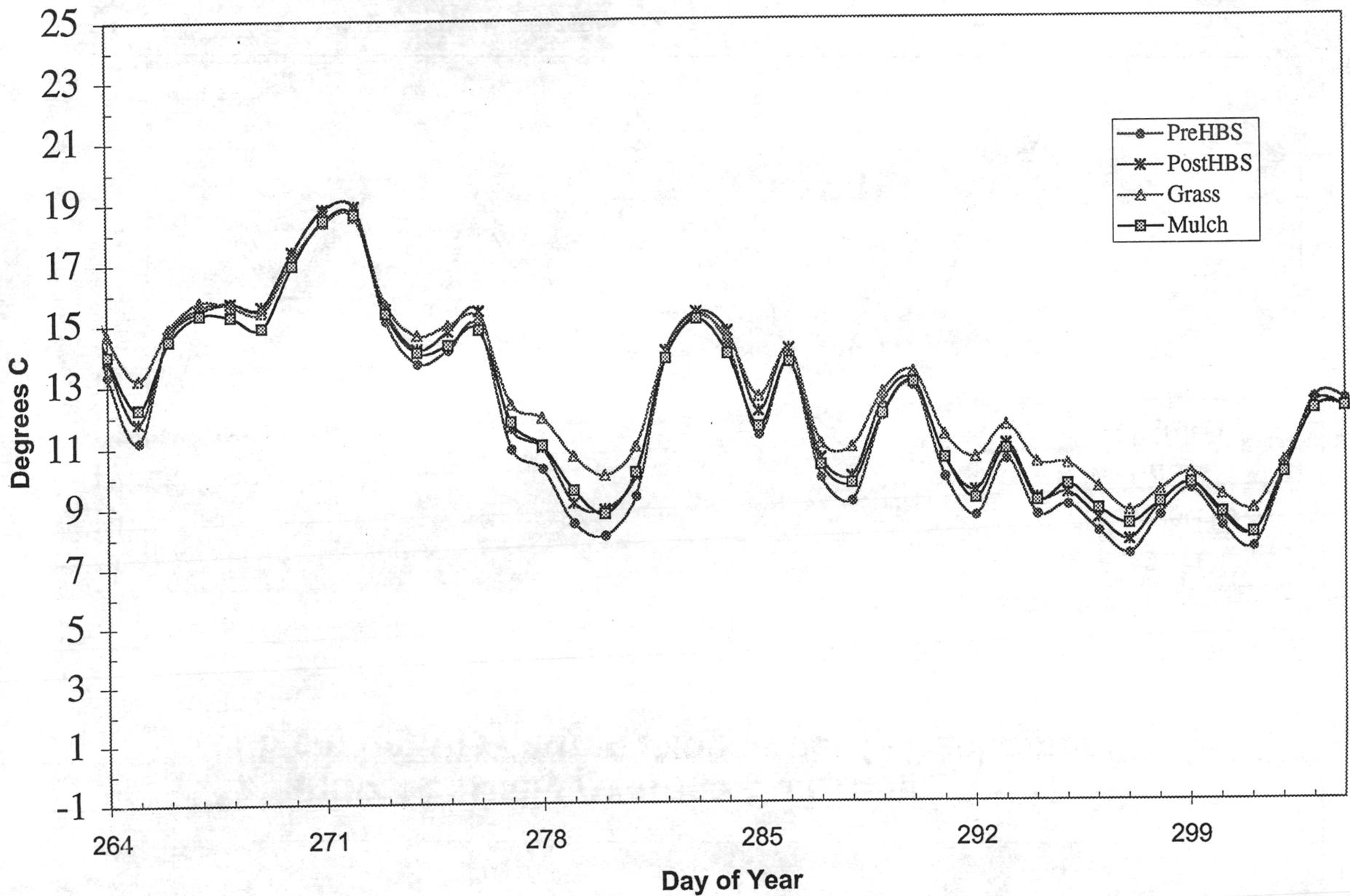
Appendix I-2: Daily Average Soil Temperature (°C) at 5 cm depth Summer (June 21-July 31) 1999



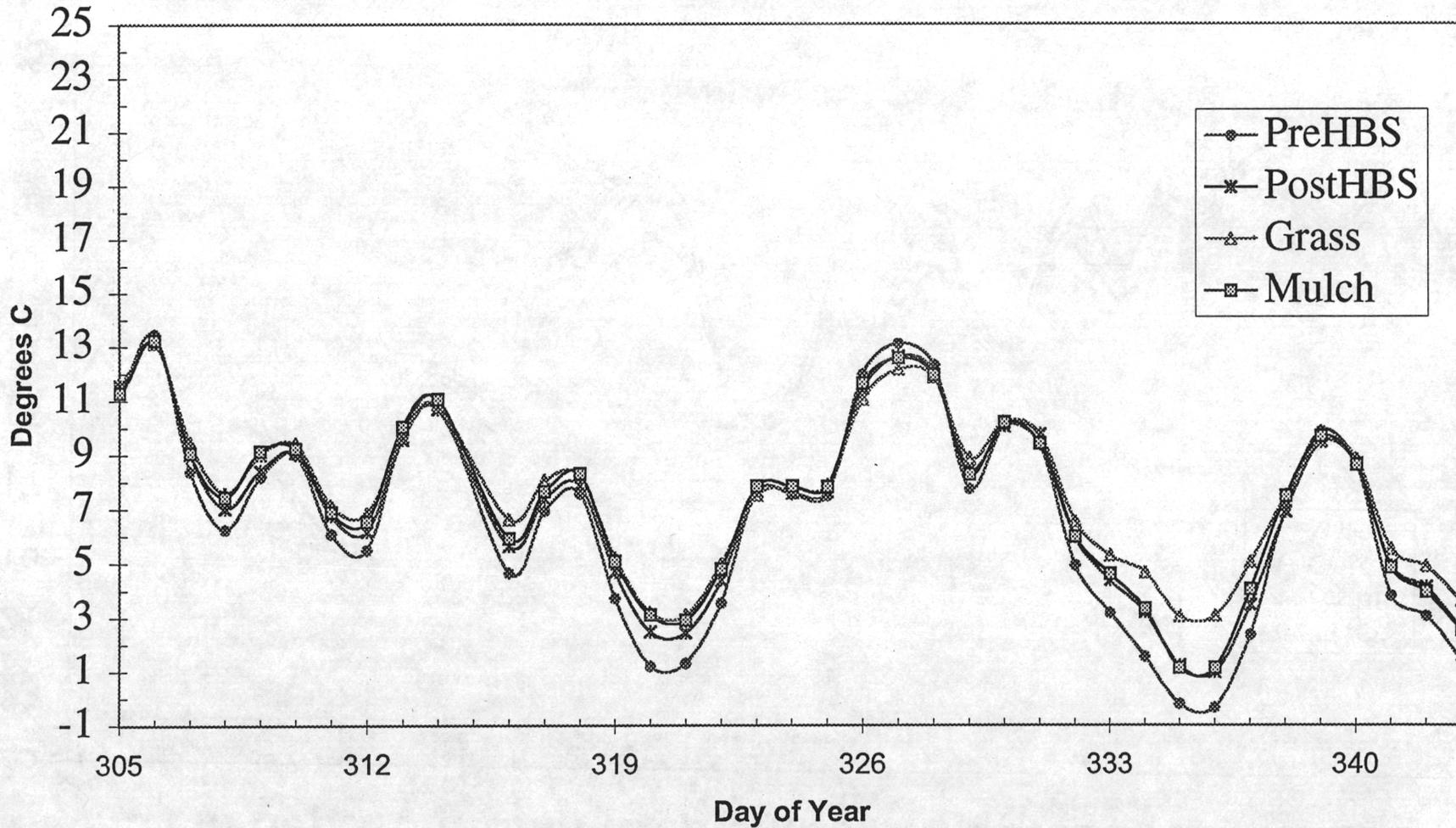
Appendix I-3: Daily Average Soil Temperature (°C) at 5 cm depth Summer (August 1-September 20) 1999



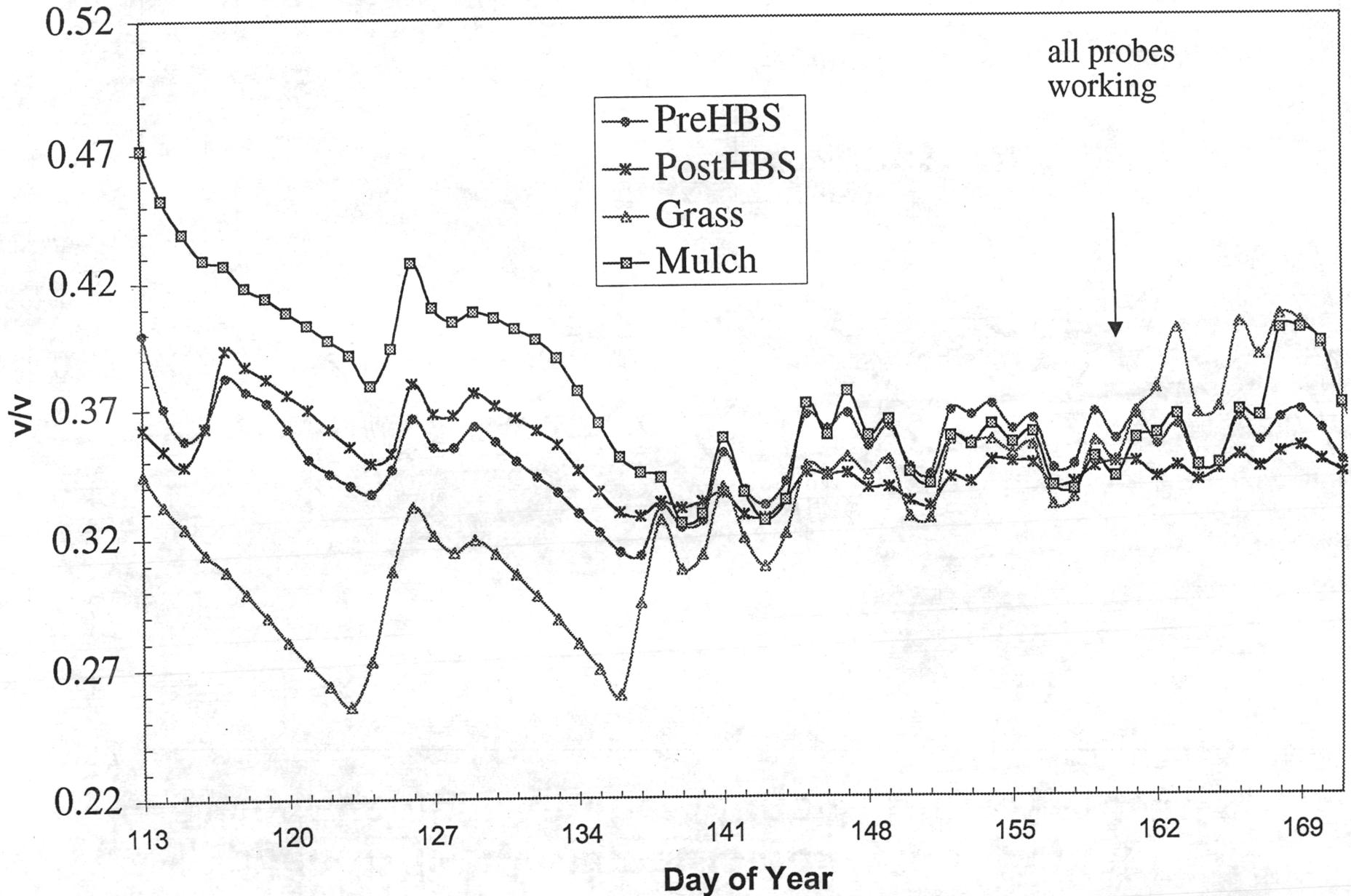
Appendix I-4: Daily Average Soil Temperature (°C) at 5 cm depth Autumn (September 21-October 31) 1999



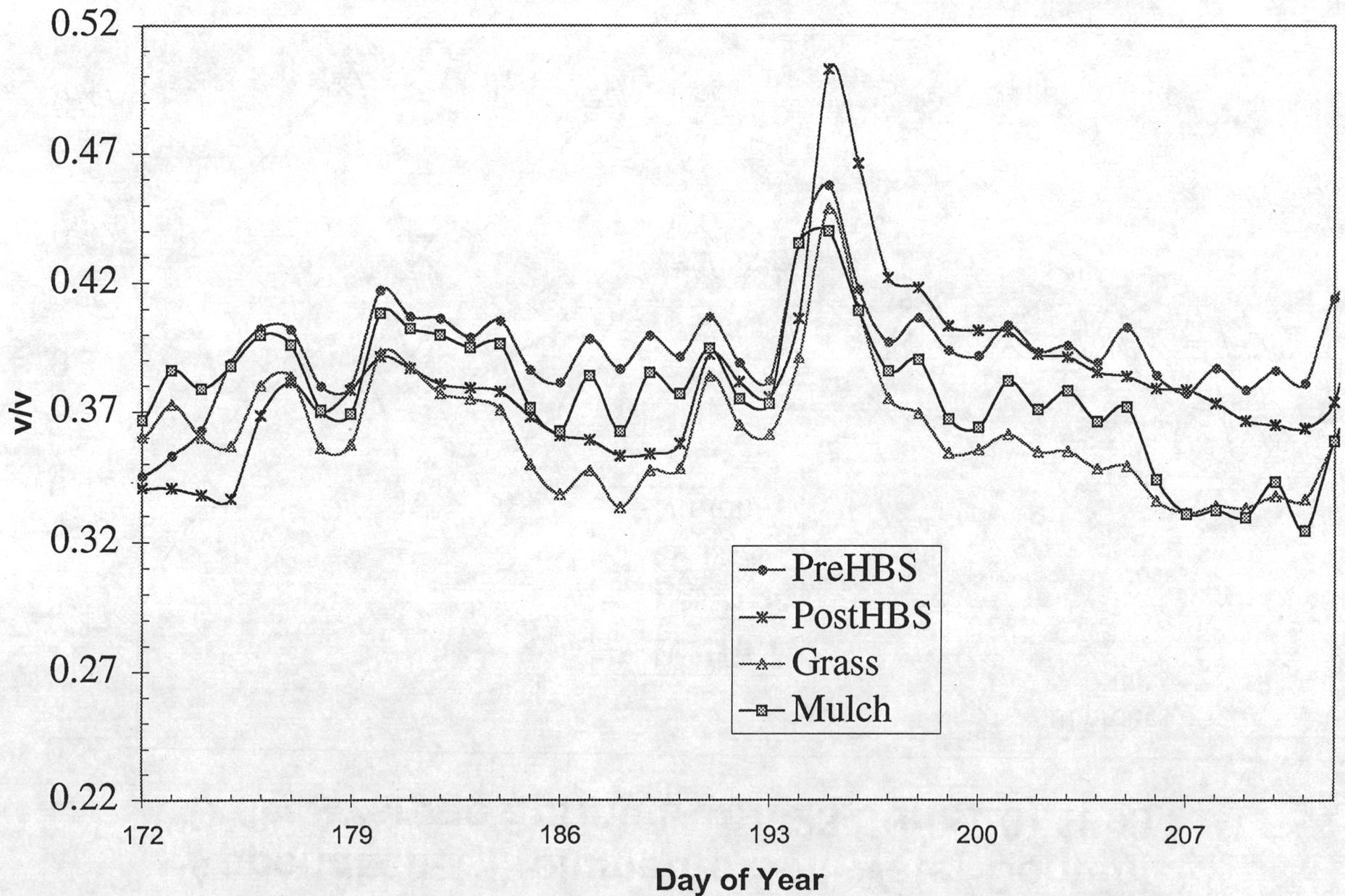
**Appendix I-5: Daily Average Soil Temperature (°C)
at 5 cm depth Autumn (November 1- December 9)
1999**



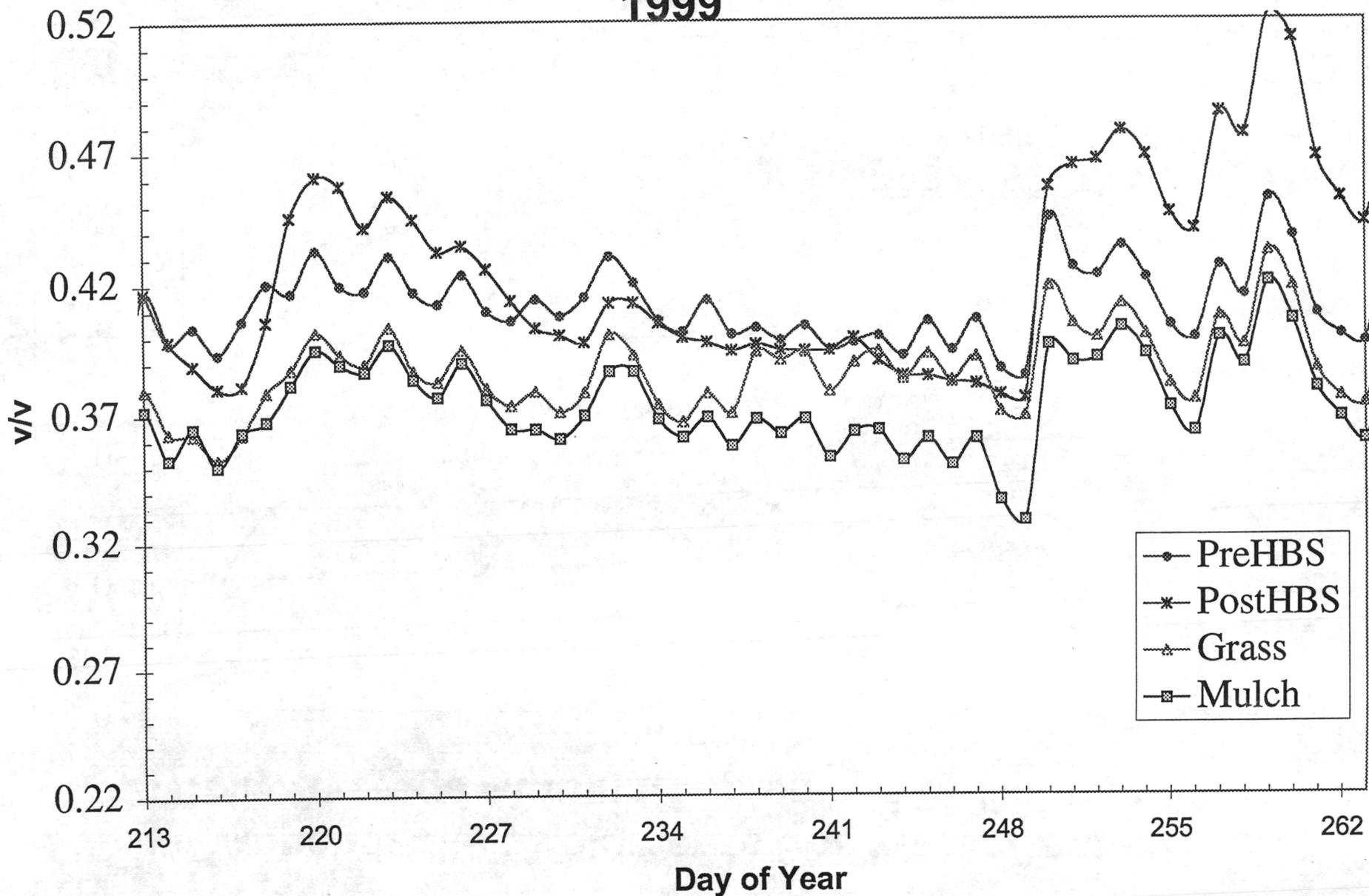
Appendix II-1: Volumetric Soil Water Content Daily Average Spring (April 23-June 20) 1999



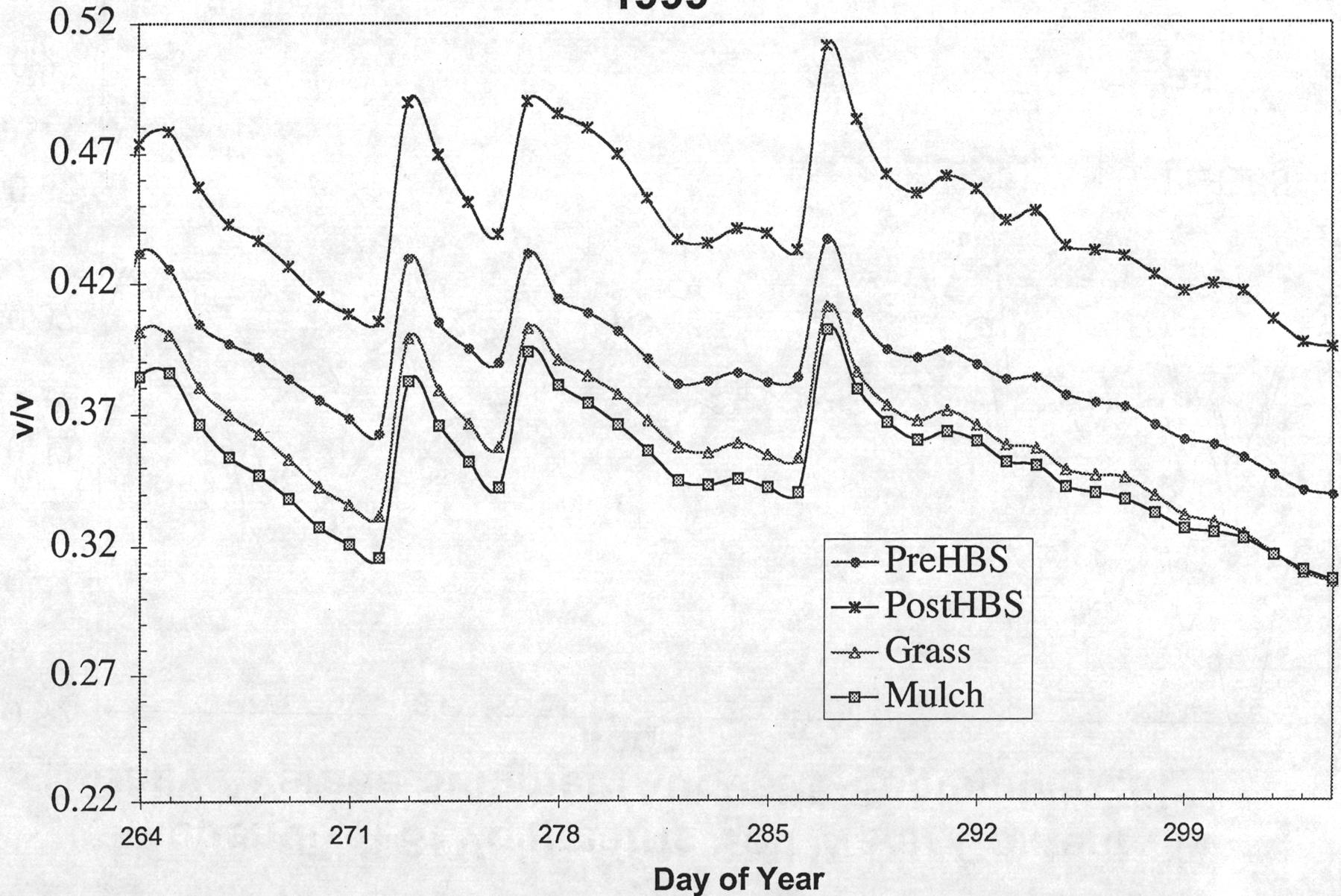
Appendix II-2: Volumetric Soil Water Content Daily Average Summer (June 21-July 31) 1999



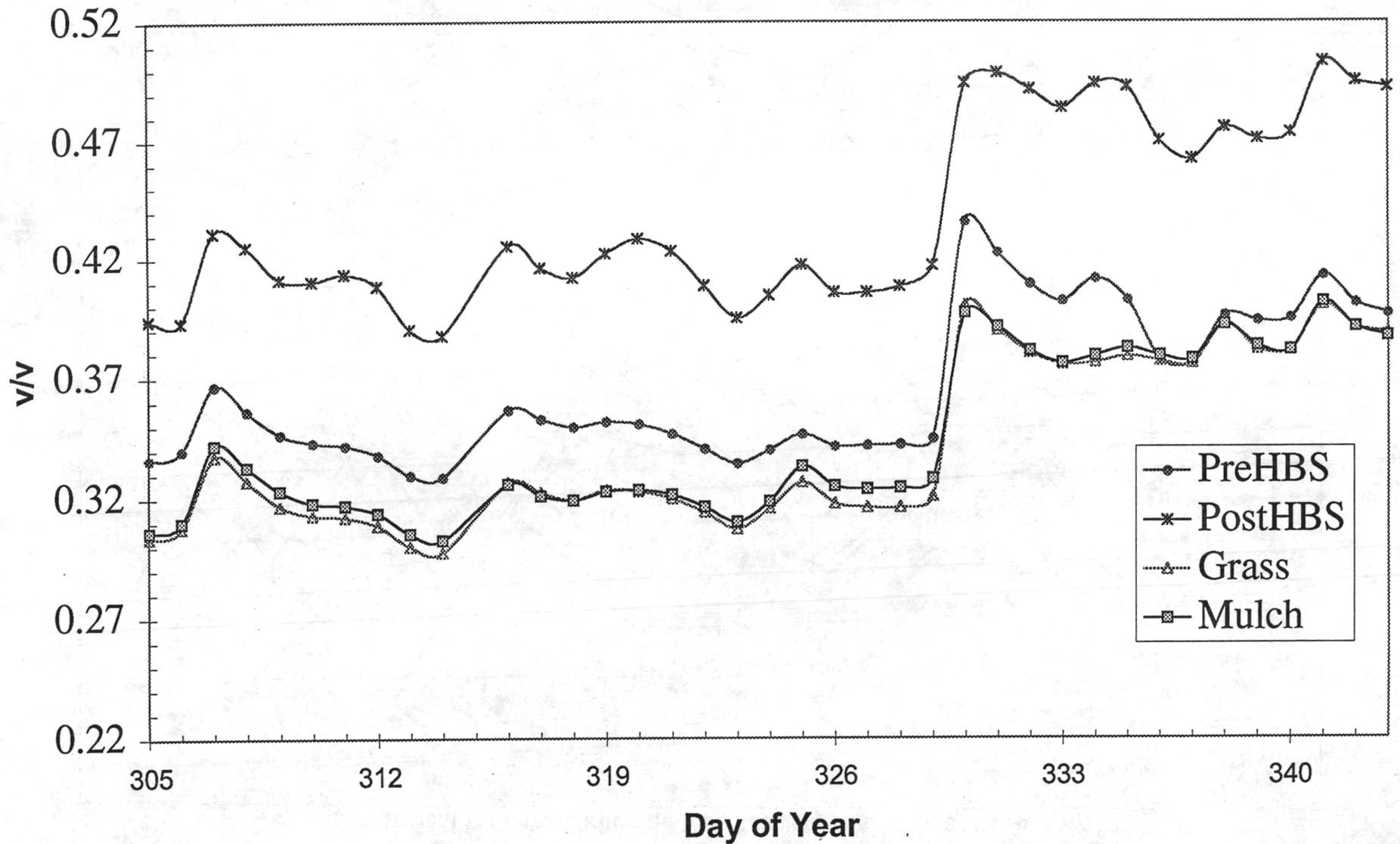
Appendix II-3: Volumetric Soil Water Content Daily Average Summer (August 1-September 20) 1999



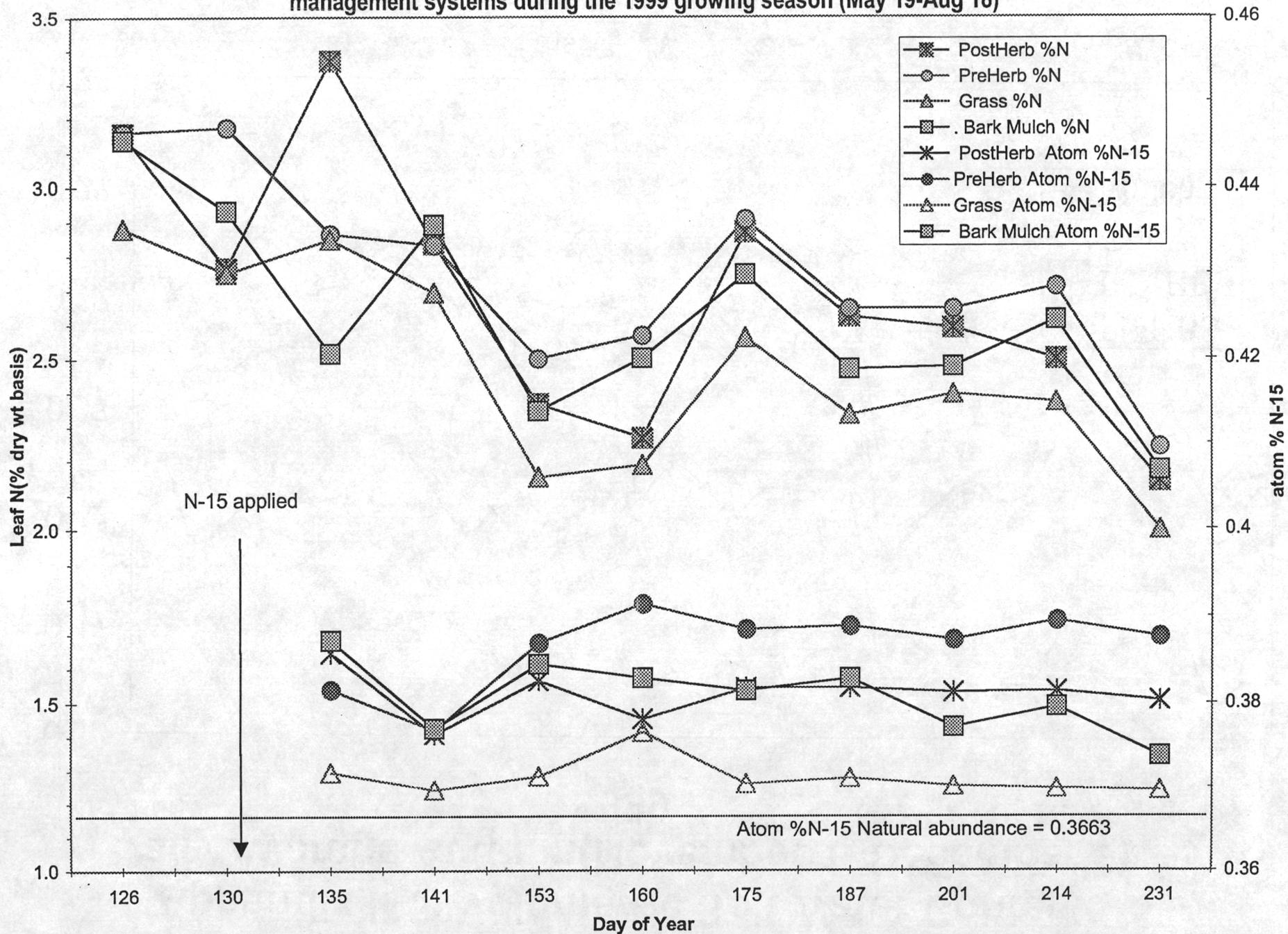
Appendix II-4: Volumetric Soil Water Content Daily Average Autumn (September 21-October 31) 1999



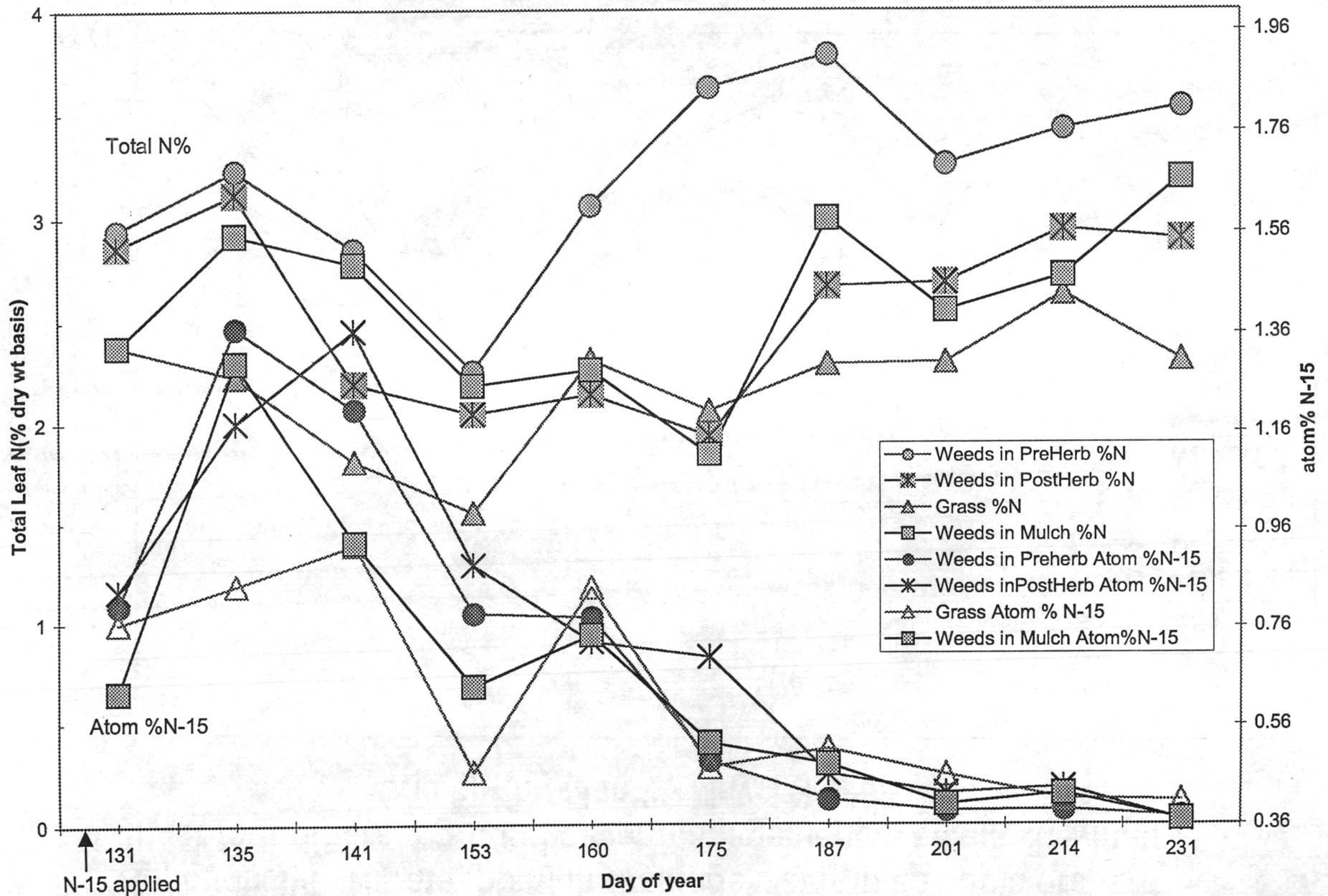
Appendix II-5: Volumetric Soil Water Content Daily Average Autumn (November 1- December 9) 1999



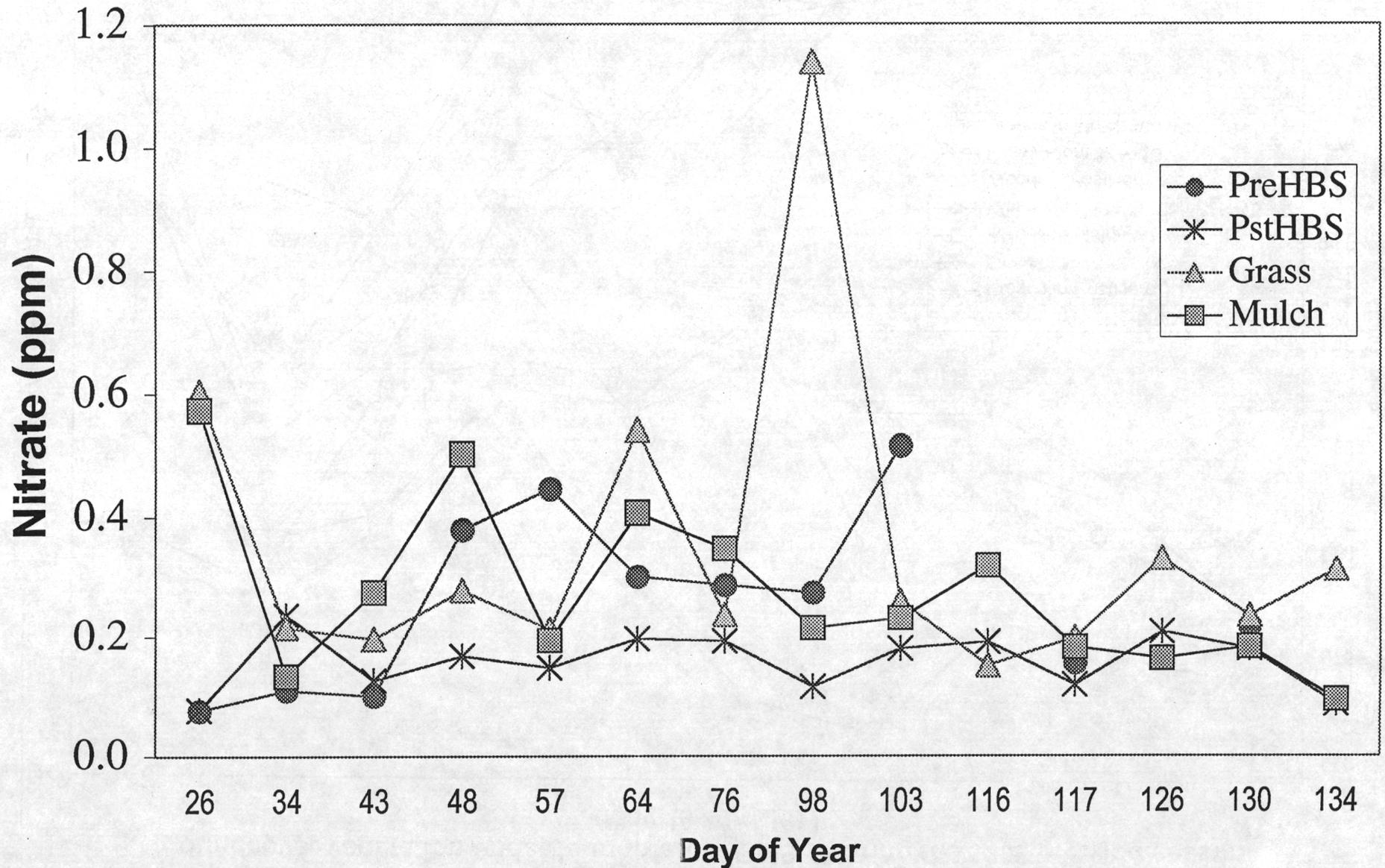
Appendix III-1. Leaf N (% dry wt basis) and atom % N-15 in apple trees under four different ground cover management systems during the 1999 growing season (May 19-Aug 18)



Appendix III-2. Groundcover Leaf N (% dry wt basis) and atom % N-15 in groundcover vegetation under four different GMS's during the 1999 growing season (May 19-Aug 18)



Appendix IV. Nitrate (ppm) in drainage water in an apple orchard under four different ground cover management systems in winter and spring (Jan 26-May 11) 1999



Appendix V. Apple Yield 1998-1999

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