

Appendix B-3-3 Monthly Rainfall [mm] for Thames Model Cotswold West Area

| YEAR | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1920 | 96.4 | 26.9 | 80.1 | 144.4 | 63.9 | 81.7 | 135.5 | 40.2 | 50.1 | 84.2 | 24 | 73.9 | 901.3 |
| 1921 | 73.8 | 9.3 | 40 | 30 | 50.9 | 7.5 | 11.1 | 59.8 | 46.6 | 38.4 | 57.8 | 47.4 | 472.6 |
| 1922 | 91.6 | 94.9 | 65.9 | 94.9 | 22.6 | 27.6 | 128.3 | 136.3 | 58.1 | 22.2 | 50.3 | 107.5 | 900.2 |
| 1923 | 51.6 | 155.3 | 61.6 | 72.4 | 45.2 | 9 | 60.2 | 63.7 | 76 | 144.8 | 53 | 94.3 | 887.1 |
| 1924 | 103.6 | 18 | 34.9 | 92.4 | 181.5 | 68.3 | 117.3 | 81.5 | 138.2 | 129 | 69.8 | 123 | 1157.5 |
| 1925 | 51.5 | 112.5 | 15.2 | 53.4 | 102.8 | 3 | 93.2 | 76.4 | 108.9 | 89.8 | 47.7 | 77.5 | 831.9 |
| 1926 | 114.4 | 62.6 | 17.1 | 94.2 | 100.2 | 67.8 | 66.5 | 40.1 | 37.4 | 73.6 | 185.9 | 14.5 | 874.3 |
| 1927 | 90.2 | 100 | 87.9 | 51.6 | 38.6 | 94.1 | 94.7 | 115.9 | 162.1 | 47.8 | 76.4 | 92.1 | 1051.4 |
| 1928 | 122.2 | 64.2 | 68.1 | 26.3 | 22.3 | 74 | 70.6 | 65.7 | 24.6 | 142.5 | 92.1 | 77.3 | 849.9 |
| 1929 | 33.1 | 16.9 | 2.1 | 34.2 | 59.4 | 35 | 39.7 | 49.7 | 12.7 | 118.9 | 215.6 | 200.8 | 818.1 |
| 1930 | 131.4 | 13.8 | 49.1 | 85.2 | 43.9 | 56.6 | 94.7 | 72.8 | 101.8 | 52.8 | 116.9 | 100.9 | 919.9 |
| 1931 | 47.4 | 64.4 | 5.3 | 95 | 117.2 | 96.9 | 100.3 | 123.5 | 61 | 20.5 | 114.9 | 36.9 | 883.3 |
| 1932 | 75.7 | 3.6 | 55.6 | 81.8 | 166.9 | 33.1 | 65.5 | 78.2 | 88.2 | 126.4 | 51.9 | 25 | 851.9 |
| 1933 | 63.4 | 104.4 | 80.2 | 32.1 | 47.1 | 51.9 | 42.1 | 23.5 | 65.9 | 73.1 | 27.6 | 13.3 | 624.6 |
| 1934 | 67 | 10.8 | 62.9 | 69.3 | 20.7 | 48 | 30.4 | 51 | 63.1 | 42.6 | 49.9 | 175.1 | 690.8 |
| 1935 | 21.8 | 71.6 | 12.2 | 121.6 | 50.2 | 99.3 | 19.9 | 44.1 | 134 | 123.8 | 158.4 | 103.2 | 960.1 |
| 1936 | 102.8 | 62.1 | 61 | 55.7 | 19.8 | 89.4 | 153.4 | 12.9 | 128.4 | 39.3 | 76.9 | 87.7 | 889.4 |
| 1937 | 111.9 | 131.3 | 96.8 | 91.7 | 66.5 | 49.1 | 57 | 18 | 49.7 | 94.1 | 39.8 | 62.3 | 868.2 |
| 1938 | 89 | 23.1 | 8.4 | 2.5 | 53.7 | 34.3 | 61.5 | 90.7 | 74.7 | 98.6 | 89.5 | 100.1 | 726.1 |
| 1939 | 160.3 | 39.5 | 51.9 | 89.2 | 29.1 | 62.3 | 128.1 | 55.9 | 33.2 | 113.6 | 126.3 | 55.8 | 945.2 |
| 1940 | 77.2 | 60.6 | 64.2 | 48 | 50.5 | 18.1 | 93.6 | 2.7 | 31.5 | 113.4 | 196.1 | 41.7 | 797.6 |
| 1941 | 81.3 | 84.4 | 78.9 | 28.9 | 51 | 64.8 | 91.8 | 117.4 | 18.3 | 54.5 | 73.5 | 54.1 | 798.9 |
| 1942 | 96.3 | 20.1 | 58.8 | 34.5 | 116.5 | 8.5 | 56.1 | 115.3 | 43.9 | 86.6 | 55.5 | 110.3 | 802.4 |
| 1943 | 142.9 | 35.6 | 27 | 22.5 | 82.1 | 55.5 | 22.6 | 61.7 | 52.1 | 70.2 | 48.7 | 32.6 | 653.5 |
| 1944 | 55.4 | 28.1 | 8.5 | 43.5 | 35.9 | 68.5 | 68.5 | 65.5 | 82.7 | 119.3 | 130.1 | 61.8 | 767.8 |
| 1945 | 54.9 | 62.6 | 28.3 | 31.9 | 66.1 | 82.2 | 41.3 | 50 | 44.1 | 91.8 | 8.5 | 116.6 | 678.3 |
| 1946 | 64.2 | 64.8 | 25.1 | 50.3 | 88 | 74.7 | 31.8 | 153.2 | 108.3 | 22.5 | 163.5 | 68.3 | 914.7 |
| 1947 | 54 | 40.4 | 168 | 67.7 | 46 | 42.4 | 71.2 | 13.3 | 53.9 | 11.6 | 38.9 | 54.6 | 662 |
| 1948 | 146.5 | 29.9 | 32.3 | 64 | 115.2 | 66.5 | 27 | 106.2 | 73.6 | 86.9 | 34.3 | 107.8 | 890.2 |
| 1949 | 33.9 | 37.6 | 44 | 49.4 | 72.5 | 14.7 | 33.7 | 29.5 | 67.1 | 151.5 | 82.1 | 34.1 | 650.1 |
| 1950 | 12.2 | 150.1 | 35.5 | 58.6 | 74.1 | 51.4 | 97 | 105.2 | 106.2 | 17 | 151.8 | 44.4 | 903.5 |
| 1951 | 87.9 | 110.2 | 115.1 | 89.6 | 81.1 | 27.4 | 36.7 | 147.3 | 92.7 | 26.3 | 188.3 | 67.1 | 1069.7 |
| 1952 | 60.9 | 18.8 | 79.3 | 58.1 | 76.4 | 46.7 | 8.7 | 123.7 | 32.3 | 115 | 111.2 | 79.1 | 810.2 |
| 1953 | 28 | 49 | 31.4 | 60.2 | 60.9 | 59.9 | 95.7 | 92.8 | 71.9 | 76.3 | 28.5 | 22.5 | 677.1 |
| 1954 | 38.1 | 70.8 | 73.9 | 9.2 | 64.1 | 109.6 | 65 | 110.7 | 90.9 | 82.1 | 163.2 | 62 | 939.6 |
| 1955 | 69.2 | 44.8 | 46.6 | 27 | 122.1 | 91.9 | 5.6 | 13.4 | 28.9 | 44.5 | 68.2 | 81 | 643.2 |
| 1956 | 113 | 10.7 | 18.4 | 49.1 | 16.8 | 64.8 | 53.8 | 134 | 87.6 | 49.7 | 24.6 | 109.1 | 731.6 |
| 1957 | 63.9 | 91.7 | 70.3 | 9.7 | 36.6 | 48.4 | 103.3 | 135.3 | 108.6 | 54.9 | 51.3 | 68.5 | 842.5 |
| 1958 | 85.2 | 101.5 | 36.1 | 22.3 | 80.3 | 99.9 | 76.4 | 78.9 | 100.5 | 74.9 | 83.3 | 90.3 | 929.6 |
| 1959 | 119.6 | 2.8 | 83.9 | 80.4 | 33.5 | 33.6 | 46 | 43.7 | 4 | 55.2 | 66.2 | 153.5 | 722.4 |
| 1960 | 123.2 | 66.6 | 37.4 | 22.6 | 56.4 | 92.5 | 111.5 | 90.3 | 122.1 | 155.1 | 123.5 | 105.4 | 1106.6 |
| 1961 | 88.9 | 65.2 | 4.2 | 122.8 | 28 | 38.3 | 71.2 | 55.4 | 63.5 | 76.2 | 32.2 | 108.6 | 754.5 |
| 1962 | 101.7 | 13.4 | 31.1 | 64 | 58.5 | 6.1 | 36.3 | 135.9 | 83.6 | 25.1 | 69.2 | 64.3 | 689.2 |
| 1963 | 31.2 | 15.8 | 98.2 | 63.4 | 41.9 | 99.6 | 54.9 | 82.2 | 53.6 | 47 | 148.7 | 26.9 | 763.4 |
| 1964 | 19.9 | 28.7 | 80.1 | 59.4 | 61.5 | 65.3 | 24.6 | 18.9 | 19.9 | 36.2 | 45.1 | 77.5 | 537.1 |
| 1965 | 79.8 | 7.8 | 63.8 | 50.5 | 61.6 | 73.7 | 100.2 | 42.4 | 107.3 | 15.8 | 74.4 | 148.6 | 825.9 |
| 1966 | 43.7 | 98.8 | 23.4 | 93 | 63.2 | 42.4 | 61.5 | 86.4 | 30.3 | 115.7 | 51.4 | 93.2 | 803 |
| 1967 | 52.3 | 95.8 | 57.6 | 29.8 | 159.6 | 31.2 | 40 | 53.4 | 95.5 | 163.9 | 50 | 81.2 | 910.3 |
| 1968 | 71.3 | 41.8 | 29.9 | 66.9 | 73.9 | 110.8 | 123 | 59 | 134.4 | 71 | 62.5 | 89.5 | 934 |
| 1969 | 75.8 | 54.3 | 60.6 | 43.4 | 124 | 32.9 | 64.1 | 96.8 | 27.7 | 10.5 | 80.6 | 79.2 | 749.9 |
| 1970 | 93.6 | 59.7 | 53.7 | 67.4 | 36.9 | 74.4 | 68.4 | 86.5 | 61 | 24.6 | 161 | 36.3 | 823.5 |
| 1971 | 128.9 | 25.6 | 61.3 | 56.7 | 52 | 123.6 | 35.1 | 102.5 | 17.5 | 86.3 | 73.6 | 35.2 | 798.3 |
| 1972 | 86.5 | 79 | 73.9 | 52.6 | 74.6 | 49.9 | 33.1 | 24.6 | 37.4 | 31.1 | 58.4 | 138.1 | 739.2 |
| 1973 | 36.8 | 21.8 | 17.4 | 64.7 | 64.4 | 85.8 | 89.7 | 39.3 | 51.8 | 30.3 | 35.2 | 39.9 | 577.1 |
| 1974 | 109.4 | 111.8 | 36.7 | 8.2 | 32.5 | 55.1 | 52.5 | 97.1 | 139.5 | 56.9 | 92.3 | 49.8 | 841.8 |
| 1975 | 99.9 | 42.3 | 103.1 | 41.3 | 29.1 | 9.8 | 54.9 | 33 | 81.5 | 17.6 | 46.6 | 36.4 | 595.5 |
| 1976 | 23.9 | 31.8 | 33 | 12.4 | 40.5 | 25.8 | 19 | 38.1 | 135.2 | 111.6 | 54.7 | 100.9 | 626.9 |
| 1977 | 80.5 | 142.9 | 70.3 | 42.4 | 49 | 125.7 | 10.6 | 161.7 | 16.3 | 46.8 | 70.2 | 87.2 | 903.6 |



| YEAR | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1978 | 93.1 | 54.4 | 66 | 50.9 | 26.8 | 40.2 | 109.8 | 59.4 | 28.5 | 6.7 | 29.1 | 145.9 | 710.8 |
| 1979 | 66 | 56.9 | 133.4 | 48.3 | 140.6 | 31.4 | 22.6 | 78.5 | 26.3 | 47.9 | 64.2 | 149.6 | 865.7 |
| 1980 | 63.7 | 66.8 | 100.3 | 22.1 | 28.6 | 98.7 | 60.2 | 74.2 | 72.5 | 83.3 | 56.1 | 57.7 | 784.2 |
| 1981 | 36.3 | 33.7 | 137.2 | 51.9 | 97.5 | 29.9 | 38.6 | 44.5 | 150 | 80.1 | 43.6 | 99.5 | 842.8 |
| 1982 | 63 | 45.9 | 102.2 | 27.4 | 25.4 | 108.3 | 39.8 | 55 | 90.2 | 90.8 | 99.9 | 84.4 | 832.3 |
| 1983 | 70.6 | 19.9 | 52.3 | 92.5 | 128.4 | 14.3 | 65.9 | 21.9 | 82.1 | 52.1 | 49.6 | 66 | 715.6 |
| 1984 | 114.6 | 45.4 | 47.2 | 6.1 | 66.8 | 25.4 | 11.5 | 56.5 | 113 | 78.2 | 152.9 | 60.9 | 778.5 |
| 1985 | 60.3 | 46.6 | 64 | 42 | 86.5 | 143.6 | 54.3 | 92 | 20.2 | 60.8 | 51.9 | 111.3 | 833.5 |
| 1986 | 102.9 | 9.4 | 67.2 | 70.3 | 84.6 | 30.7 | 45.1 | 118.5 | 22.7 | 73.5 | 108.5 | 92.6 | 826 |
| 1987 | 11.3 | 49.4 | 73.5 | 59.6 | 44.4 | 111.2 | 58.2 | 32.2 | 37.5 | 152.4 | 78.8 | 41 | 749.5 |
| 1988 | 129.6 | 49.8 | 79.7 | 34.6 | 48 | 41.1 | 115.5 | 70.5 | 46.7 | 69.1 | 32.5 | 19 | 736.1 |
| 1989 | 37.3 | 81.9 | 66.3 | 81.2 | 19.7 | 44.7 | 32 | 54.2 | 52.8 | 103.7 | 50.1 | 145.6 | 769.5 |
| 1990 | 98.2 | 122.5 | 14.5 | 35.4 | 5.6 | 61.6 | 28.4 | 27.8 | 39.5 | 63.8 | 31.9 | 81.7 | 610.9 |
| 1991 | 89.4 | 35.2 | 70.3 | 68.4 | 12.8 | 105.2 | 81.7 | 11.7 | 56 | 55.5 | 93.7 | 18.8 | 698.7 |
| 1992 | 68.5 | 31.3 | 52.9 | 71.3 | 58.2 | 56.8 | 98.3 | 129.9 | 77.8 | 69.5 | 138.4 | 71.2 | 924.1 |
| 1993 | 115.9 | 10.5 | 27.9 | 81.3 | 95.3 | 59.9 | 73.7 | 31.4 | 97.2 | 90.5 | 57.6 | 134.5 | 875.7 |
| 1994 | 110.9 | 75.2 | 64.3 | 51.3 | 90.7 | 22.5 | 27.2 | 48.5 | 96.7 | 72.1 | 67.4 | 115.9 | 842.7 |
| 1995 | 143.6 | 92.4 | 46.4 | 23 | 61.5 | 10.7 | 22.8 | 3.2 | 126.2 | 64 | 82.2 | 102.1 | 778.1 |
| 1996 | 51 | 67.8 | 47.7 | 53.4 | 40.6 | 17.6 | 38.7 | 68.2 | 27.2 | 60.5 | 84.1 | 36.3 | 593.1 |
| 1997 | 8.3 | 98.4 | 14.9 | 27.5 | 77.4 | 83.1 | 29.4 | 124.8 | 24.1 | 68.6 | 102.1 | 87.6 | 746.2 |
| 1998 | 96.8 | 12.1 | 86.3 | 120 | 29.3 | 109.9 | 23.6 | 35.2 | 106.4 | 135 | 70.2 | 83.4 | 908.2 |
| 1999 | 141 | 34.5 | 53.3 | 82.1 | 85.7 | 66.2 | 5.9 | 112.6 | 118.5 | 73.5 | 52.8 | 127.4 | 953.5 |
| 2000 | 29 | 90.8 | 21.8 | 171.3 | 83 | 32.5 | 41.7 | 56.6 | 107.7 | 154.3 | 143.6 | 146.4 | 1078.7 |
| 2001 | 67.4 | 82.8 | 93.2 | 108.9 | 41.4 | 29.6 | 71.9 | 76.6 | 53.2 | 116.5 | 46.2 | 29 | 816.7 |
| 2002 | 91.8 | 119.2 | 44.2 | 47.2 | 84.6 | 56.5 | 92.6 | 35.7 | 24.6 | 155.3 | 132.2 | 113.8 | 997.7 |
| 2003 | 81.9 | 25.6 | 36.1 | 49.9 | 59 | 49.1 | 84.8 | 10.3 | 19.7 | 42.7 | 97 | 92.5 | 648.6 |
| 2004 | 101.9 | 32.4 | 56.3 | 88.2 | 47.7 | 44 | 53.3 | 136.8 | 49.7 | 148 | 45 | 46.8 | 850.1 |
| 2005 | 35.8 | 26.7 | 66.3 | 58.3 | 44.4 | 40.8 | 47.5 | 39.7 | 53.2 | 94.7 | 81.7 | 76.4 | 665.5 |
| 2006 | 21.4 | 34.4 | 84.2 | 30.1 | 121.1 | 14.7 | 72.9 | 61.7 | 112.8 | 88.4 | 112.7 | 119.8 | 874.2 |
| 2007 | 91.7 | 98.1 | 74.7 | 5.1 | 142.8 | 129.3 | 201.4 | 45.9 | 31.7 | 74.2 | 96.8 | 83.6 | 1075.3 |
| 2008 | 121.8 | 31.6 | 100.1 | 47.8 | 96.4 | 61.6 | 131.5 | 104.5 | 116.1 | 49.5 | 83.6 | 54.7 | 999.2 |
| 2009 | 77 | 60.3 | 30.2 | 42.5 | 50.7 | 55.8 | 99.6 | 75 | 26.8 | 67.2 | 159.2 | 87 | 831.3 |
| 2010 | 90.2 | 54.9 | 61.7 | 24 | 42.9 | 38.2 | 31 | 134.8 | 45.8 | 60.6 | 62.1 | 35.5 | 681.7 |
| 2011 | 65.8 | 64.8 | 10.4 | 4.9 | 44.9 | 57.9 | 45.9 | 52.7 | 40.7 | 38.9 | 39.1 | 96.4 | 562.4 |
| 2012 | 55.6 | 24.6 | 26.5 | 139 | 51.2 | 159.1 | 105.1 | 109.4 | 72.8 | 100.1 | 148.6 | 153.1 | 1145.1 |
| 2013 | 82.7 | 44.9 | 75.3 | 29.1 | 75 | 27.9 | 38.9 | 30.9 | 56.6 | 145.5 | 65.5 | 135.5 | 807.8 |
| 2014 | 210 | 164.4 | 43.7 | 58.2 | 70 | 27.7 | 36.2 | 99.3 | 5.5 | 90.1 | 95.7 | 45.9 | 946.7 |
| 2015 | 85.5 | 52.9 | 27.8 | 15 | 61.4 | 37.7 | 69.3 | 62.9 | 41.2 | 63.3 | 92.8 | 117.1 | 726.9 |
| 2016 | 108.5 | 74.9 | 97.8 | 47.9 | 65.8 | 65.5 | 13.8 | 41.3 | 50.3 | 15.9 | 96.7 | 31.4 | 709.8 |
| 2017 | 75.4 | 41 | 51.6 | 11 | 62.7 | 69.4 | 74.1 | 53.7 | 62.6 | 33 | 56.1 | 107.9 | 698.5 |
| 2018 | 77.5 | 32.7 | 113.6 | 55.6 | 82.5 | 2.9 | - | - | - | - | - | - | 364.8 |
| min | 8.3 | 2.8 | 2.1 | 2.5 | 5.6 | 2.9 | 5.6 | 2.7 | 4.0 | 6.7 | 8.5 | 13.3 | 364.8 |
| max | 210.0 | 164.4 | 168.0 | 171.3 | 181.5 | 159.1 | 201.4 | 161.7 | 162.1 | 163.9 | 215.6 | 200.8 | 1157.5 |
| avg | 79.5 | 56.6 | 56.6 | 55.7 | 65.3 | 57.3 | 62.7 | 70.2 | 67.1 | 75.4 | 82.4 | 82.0 | 806.3 |

Appendix B-3-4 Monthly Areal Infiltration [mm] for Thames Model Cotswold West Area

| YEAR | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|------|-------|-------|------|------|-------|------|------|------|-------|-------|-------|-------|--------|
| 1920 | 83.4 | 11.7 | 41.5 | 99.5 | 4.9 | 6.4 | 26.4 | 2.7 | 5.2 | 40.3 | 13.2 | 65.2 | 400.4 |
| 1921 | 61.4 | 2.3 | 5.4 | 2 | 3 | 0 | 0 | 3.9 | 5.1 | 4.5 | 7.8 | 6.2 | 101.6 |
| 1922 | 51.9 | 81.6 | 37.7 | 43.8 | 2.4 | 0.7 | 13.2 | 34.8 | 13.3 | 2 | 41.9 | 99.6 | 422.9 |
| 1923 | 46.7 | 142 | 37.9 | 35 | 1.4 | 0.4 | 4.9 | 5.5 | 8.6 | 76.3 | 49.1 | 90.7 | 498.5 |
| 1924 | 99.5 | 1.8 | 11.2 | 30.1 | 106.3 | 28.2 | 10.5 | 6.2 | 87.4 | 105.5 | 58.6 | 116.9 | 662.2 |
| 1925 | 42.7 | 96.6 | 1.1 | 3.6 | 8 | 0 | 9 | 5.9 | 26 | 62.9 | 44.2 | 74.5 | 374.5 |
| 1926 | 106.6 | 49.2 | 1.4 | 19.6 | 41.9 | 4.7 | 4.8 | 2 | 3.4 | 9.4 | 159.2 | 11.8 | 414 |
| 1927 | 81.8 | 88.6 | 47.1 | 25.6 | 1.5 | 7.2 | 7.3 | 28.9 | 109.1 | 26.2 | 69.8 | 86.5 | 579.6 |
| 1928 | 114.6 | 52.4 | 33.1 | 4.3 | 0.7 | 4.4 | 7.6 | 5 | 2.6 | 38.4 | 80.6 | 74.3 | 418 |
| 1929 | 28.5 | 10.6 | 0 | 2.5 | 4.8 | 1.2 | 2.4 | 3.3 | 0.8 | 15.9 | 174.1 | 188.9 | 433 |
| 1930 | 121.2 | 7.2 | 28.5 | 29.5 | 1.7 | 5.1 | 8.2 | 5.5 | 11.7 | 19.8 | 105.4 | 95.5 | 439.3 |
| 1931 | 45.6 | 51.5 | 0 | 16.4 | 32.8 | 26.6 | 8.4 | 58.1 | 13.7 | 2.3 | 96.8 | 31 | 383.2 |
| 1932 | 73.3 | 0.3 | 12.8 | 25.7 | 105.8 | 3.5 | 5.4 | 9.7 | 19.7 | 101.5 | 40.3 | 21.4 | 419.4 |
| 1933 | 63 | 93.5 | 54.6 | 2.8 | 3.2 | 2.8 | 2 | 1.5 | 7.7 | 9 | 3.8 | 1.8 | 245.7 |
| 1934 | 50.4 | 4.1 | 41.8 | 15.1 | 1 | 3.8 | 1.2 | 3.5 | 6.4 | 4.4 | 7.3 | 129.6 | 268.6 |
| 1935 | 15.6 | 51.3 | 2.1 | 51.5 | 3.8 | 6.5 | 0.9 | 3.7 | 14.8 | 88 | 151.4 | 100 | 489.6 |
| 1936 | 95.2 | 50.1 | 32.7 | 12.1 | 0.6 | 8.6 | 26 | 0.1 | 51.8 | 10.3 | 69 | 80.9 | 437.4 |
| 1937 | 105.7 | 116.4 | 74.3 | 46.2 | 4.9 | 3.4 | 6.2 | 1.1 | 4.6 | 13 | 33 | 60.4 | 469.2 |
| 1938 | 76.5 | 6.4 | 1.8 | 0 | 4.2 | 1.7 | 4.9 | 9.1 | 8.7 | 30.4 | 79.3 | 97.3 | 320.3 |
| 1939 | 152.3 | 27.3 | 21.4 | 33 | 2.1 | 3.9 | 11.1 | 5.3 | 3.4 | 56.9 | 115.5 | 51.6 | 483.8 |
| 1940 | 76.5 | 50.6 | 36.2 | 2.7 | 2.2 | 0.1 | 6.8 | 0 | 1.6 | 14.6 | 162.6 | 36.9 | 390.8 |
| 1941 | 78.5 | 74.3 | 52.6 | 10.5 | 2.9 | 6.5 | 5.7 | 9.2 | 1.2 | 6.1 | 58.8 | 49.2 | 355.5 |
| 1942 | 90.1 | 13 | 35.8 | 13.7 | 9.1 | 0 | 3.2 | 11.6 | 4 | 43.9 | 53.5 | 104.4 | 382.3 |
| 1943 | 137.6 | 29.8 | 3.2 | 0.4 | 7.5 | 2.3 | 0.3 | 4.3 | 4.6 | 9.2 | 6.4 | 16.3 | 221.9 |
| 1944 | 48.4 | 17.1 | 0.5 | 4.5 | 2.3 | 5.3 | 5.5 | 6.4 | 9.3 | 81.3 | 123 | 60.6 | 364.2 |
| 1945 | 51.2 | 55 | 2.2 | 2.9 | 5.1 | 6 | 2.3 | 3.5 | 3.2 | 13.7 | 2.8 | 114.4 | 262.3 |
| 1946 | 61.9 | 50.5 | 7 | 4.8 | 9.1 | 4.8 | 1.3 | 44.6 | 73.4 | 2.5 | 144.7 | 68.3 | 472.9 |
| 1947 | 51.2 | 35 | 148 | 24.6 | 3 | 1.9 | 3.9 | 0.6 | 5.7 | 1.1 | 5.4 | 7.5 | 287.9 |
| 1948 | 115.2 | 21.5 | 3.7 | 6.2 | 12.4 | 9.5 | 1 | 11.2 | 19.2 | 44.9 | 31.2 | 107.4 | 383.4 |
| 1949 | 28.3 | 24.6 | 25.2 | 4.8 | 5.7 | 0.5 | 2.7 | 1.9 | 8.2 | 40.5 | 72.9 | 30.2 | 245.5 |
| 1950 | 7 | 140 | 10.4 | 4.3 | 8 | 3.4 | 9.5 | 8.9 | 41.7 | 2.2 | 142.3 | 43.9 | 421.6 |
| 1951 | 84.4 | 99.3 | 88.2 | 56.7 | 6.2 | 0.8 | 2.3 | 15.9 | 40.5 | 5.8 | 180.5 | 56.7 | 637.3 |
| 1952 | 57.9 | 13.3 | 45.7 | 18.6 | 20.7 | 3.3 | 0 | 12.8 | 1.8 | 46.1 | 107.5 | 79 | 406.7 |
| 1953 | 25.4 | 43.2 | 3.4 | 10.6 | 5 | 4 | 7.6 | 9.6 | 8.3 | 51.7 | 20.3 | 21.7 | 210.8 |
| 1954 | 34.7 | 64.1 | 45.8 | 3.4 | 5.4 | 34.5 | 4.5 | 24.3 | 29.7 | 62.2 | 160.1 | 59.8 | 528.5 |
| 1955 | 66.8 | 38 | 19.6 | 2.1 | 21.6 | 41.4 | 0.1 | 0.2 | 1.9 | 5.2 | 9.6 | 49.9 | 256.4 |
| 1956 | 109.2 | 6.2 | 5.5 | 5.2 | 0.6 | 4.7 | 4 | 13.2 | 34.2 | 24.1 | 17.1 | 107.6 | 331.6 |
| 1957 | 60.1 | 85.3 | 42.7 | 0.7 | 2.6 | 3.6 | 9 | 31.6 | 56.6 | 34.2 | 48.9 | 67.9 | 443.2 |
| 1958 | 83.5 | 88.6 | 10 | 5.8 | 6.6 | 13.7 | 5.6 | 6.9 | 45.3 | 57.3 | 79.9 | 90.3 | 493.5 |
| 1959 | 119.6 | 0.2 | 52.4 | 30 | 2.2 | 0.8 | 3.8 | 4 | 0.3 | 6.6 | 9.6 | 118.4 | 347.9 |
| 1960 | 122 | 57 | 9.3 | 5 | 5.7 | 9.1 | 11.4 | 13.9 | 80.8 | 139.4 | 120.3 | 105.4 | 679.3 |
| 1961 | 83.7 | 55 | 0 | 49.4 | 4.3 | 4 | 6.8 | 4 | 7 | 9.3 | 10.7 | 108.6 | 342.8 |
| 1962 | 96.5 | 5.8 | 3.5 | 17.6 | 4.1 | 0 | 1.8 | 15.5 | 9.3 | 4.6 | 64.9 | 64.1 | 287.7 |
| 1963 | 30.8 | 12 | 67.9 | 24.7 | 1.5 | 7.7 | 3.9 | 7.3 | 5.4 | 6.1 | 140.7 | 26.5 | 334.5 |
| 1964 | 17 | 15.7 | 61.5 | 4.7 | 5.3 | 14.2 | 0.6 | 0.5 | 1.5 | 4.1 | 6.3 | 42 | 173.4 |
| 1965 | 76.2 | 0.4 | 33.7 | 4.7 | 4.9 | 6.5 | 17.5 | 3.1 | 39.9 | 1.6 | 63.5 | 148.5 | 400.5 |
| 1966 | 41 | 87.6 | 6.7 | 37.7 | 14.4 | 1.9 | 4.3 | 8.8 | 2.5 | 37.8 | 42.9 | 86.6 | 372.2 |
| 1967 | 50.8 | 81.8 | 33.2 | 2.2 | 56 | 2.3 | 1.9 | 3.6 | 10.1 | 107.7 | 48.2 | 81.2 | 479 |
| 1968 | 65.2 | 36.7 | 2 | 6.6 | 5.8 | 15 | 67.2 | 4.7 | 54.9 | 50.5 | 57.5 | 88.6 | 454.7 |
| 1969 | 70.1 | 44.3 | 43.6 | 3.3 | 34.3 | 1.5 | 6.9 | 9.6 | 2.6 | 0.8 | 36.3 | 75.3 | 328.6 |
| 1970 | 91.4 | 48.4 | 19.6 | 21.6 | 2.3 | 6.9 | 4.6 | 9.2 | 6.3 | 2.3 | 105.3 | 33.9 | 351.8 |
| 1971 | 125.6 | 15.3 | 36.2 | 6.9 | 3.7 | 38.9 | 1.4 | 10.4 | 1.5 | 26.6 | 68.2 | 29.6 | 364.3 |
| 1972 | 81.6 | 65.4 | 41.1 | 15.7 | 5.5 | 2.3 | 1.6 | 1.5 | 4.8 | 3.8 | 8.1 | 105.7 | 337.1 |
| 1973 | 33.6 | 13.8 | 2.9 | 6.1 | 4.1 | 10.3 | 13.5 | 3.8 | 5.3 | 3.6 | 6.5 | 36.4 | 139.9 |
| 1974 | 95.9 | 96.7 | 20.4 | 0.2 | 1.6 | 4.7 | 3.7 | 9.5 | 15.9 | 31.3 | 82.7 | 37.7 | 400.3 |
| 1975 | 86.3 | 37.5 | 72.3 | 4.7 | 1.7 | 0.3 | 4.3 | 0.7 | 9.2 | 1.7 | 6.7 | 5.2 | 230.6 |
| 1976 | 3 | 3.8 | 3.5 | 0.7 | 1.7 | 1.5 | 0 | 4 | 16.9 | 31.5 | 49.1 | 100.6 | 216.3 |
| 1977 | 76.2 | 130.9 | 37.4 | 2 | 3.5 | 48.1 | 0.1 | 48.2 | 1.2 | 5.1 | 45 | 80.7 | 478.4 |

| YEAR | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|--------|
| 1978 | 85.3 | 40.8 | 25.7 | 6.1 | 1.2 | 2.1 | 12 | 4.8 | 2.1 | 0 | 4 | 111.9 | 296 |
| 1979 | 63.9 | 45.7 | 103 | 9.7 | 44.9 | 1.5 | 1.7 | 7.5 | 2.3 | 5.6 | 8.7 | 133.2 | 427.7 |
| 1980 | 62.7 | 57.4 | 66.7 | 7.6 | 1.4 | 7.3 | 4.7 | 7.4 | 8.2 | 15.9 | 39.1 | 50.1 | 328.5 |
| 1981 | 30.7 | 17.4 | 103.3 | 7.2 | 29.6 | 5 | 2.1 | 5.1 | 35.8 | 56.8 | 31.2 | 97.8 | 422 |
| 1982 | 59.2 | 31.8 | 77.7 | 2.8 | 0.4 | 8.3 | 3.3 | 3.6 | 10.8 | 25.9 | 91.1 | 79.3 | 394.2 |
| 1983 | 55.1 | 6.4 | 20.3 | 40.9 | 63.7 | 0.1 | 6.8 | 1.1 | 8.6 | 5.9 | 7.2 | 53.1 | 269.2 |
| 1984 | 106 | 32.6 | 16.2 | 0 | 5.8 | 1.4 | 0 | 3.8 | 13.2 | 9.8 | 119.6 | 60.9 | 369.3 |
| 1985 | 56.4 | 39.1 | 31.5 | 11.8 | 8.7 | 48.7 | 4 | 6.8 | 1.7 | 8 | 28.2 | 104.9 | 349.8 |
| 1986 | 93.8 | 6.8 | 22.8 | 30.6 | 7.2 | 2.3 | 2.8 | 13.5 | 2.7 | 9.7 | 95.3 | 84.8 | 372.3 |
| 1987 | 8.6 | 36.1 | 41 | 34.5 | 2.6 | 9.9 | 4.6 | 1.3 | 2.4 | 63.9 | 70 | 33.4 | 308.3 |
| 1988 | 121.8 | 45 | 34.7 | 2.6 | 2.8 | 2.4 | 10.3 | 6.2 | 4.4 | 8.8 | 22.7 | 13 | 274.7 |
| 1989 | 31.2 | 65.5 | 40.6 | 33.2 | 1.3 | 2.9 | 2.5 | 4.8 | 5.8 | 13.6 | 7.5 | 130.9 | 339.8 |
| 1990 | 88.7 | 99.1 | 1.1 | 1.8 | 0 | 4.5 | 1.8 | 1.5 | 3.5 | 7.8 | 4.4 | 11.9 | 226.1 |
| 1991 | 63.8 | 26.4 | 50.2 | 7.1 | 0.7 | 8.4 | 7.9 | 0.1 | 5.9 | 6.6 | 62.1 | 14 | 253.2 |
| 1992 | 63.2 | 18.6 | 5.7 | 17.6 | 5 | 5 | 10.1 | 13.5 | 21.1 | 44.7 | 126.5 | 69.4 | 400.4 |
| 1993 | 102.9 | 1.2 | 2.8 | 29 | 9.7 | 3.9 | 5 | 2.4 | 11.6 | 57 | 43.3 | 124.3 | 393.1 |
| 1994 | 103 | 64 | 19.3 | 23.4 | 7.6 | 0.8 | 0.8 | 3.3 | 10.3 | 9.6 | 49.7 | 109.3 | 401.1 |
| 1995 | 133.6 | 76.8 | 22.8 | 1.7 | 5.2 | 0.1 | 0.8 | 0 | 15.4 | 8.7 | 35.4 | 99 | 399.5 |
| 1996 | 46 | 54.8 | 24.1 | 5.8 | 2.2 | 0.5 | 1.2 | 5.6 | 2.7 | 6.8 | 11.2 | 6.9 | 167.8 |
| 1997 | 7.5 | 79.6 | 0.7 | 3 | 5.6 | 6.2 | 1.2 | 13.2 | 1.6 | 8.8 | 68.4 | 80.7 | 276.5 |
| 1998 | 89.5 | 1.3 | 49.5 | 71.2 | 1.7 | 9.1 | 0.6 | 2.3 | 11.6 | 55 | 59.9 | 78 | 429.7 |
| 1999 | 129.4 | 18.2 | 24.9 | 29.6 | 11.4 | 8.1 | 0 | 11.4 | 14 | 40.2 | 36.2 | 116.6 | 440 |
| 2000 | 23.9 | 69.6 | 6.7 | 101.6 | 7.6 | 1.7 | 1.9 | 3.7 | 12.3 | 108.7 | 128.9 | 140.1 | 606.7 |
| 2001 | 64.6 | 73.8 | 67.5 | 56 | 2.7 | 1.7 | 6 | 5.6 | 3.9 | 14 | 23.7 | 26.1 | 345.6 |
| 2002 | 84.9 | 98.3 | 22.6 | 3.9 | 6.2 | 4.5 | 8.8 | 1.9 | 2.6 | 63.5 | 119.3 | 108.8 | 525.3 |
| 2003 | 73.2 | 16.6 | 27.2 | 3.9 | 3.1 | 3.5 | 6.3 | 0.3 | 1.2 | 5.5 | 13.6 | 54.1 | 208.5 |
| 2004 | 90.5 | 26.9 | 16 | 18.6 | 16.5 | 3.8 | 4.5 | 12.6 | 3.4 | 51.7 | 32 | 42.9 | 319.4 |
| 2005 | 20.3 | 11.7 | 36.2 | 9.6 | 3.1 | 2.2 | 3.6 | 2.6 | 5.1 | 11.9 | 19.4 | 72.3 | 198 |
| 2006 | 18.4 | 24.3 | 45.9 | 2.1 | 19.7 | 0 | 6.3 | 4.1 | 13.3 | 10.2 | 92.1 | 110.2 | 346.6 |
| 2007 | 79.1 | 80.2 | 52.2 | 0 | 19.5 | 41.2 | 109.3 | 3.4 | 3 | 13.6 | 80.1 | 76.1 | 557.7 |
| 2008 | 107.6 | 21.9 | 53.7 | 3 | 9.7 | 13.7 | 20.2 | 17.1 | 76.4 | 5.5 | 58.6 | 54.7 | 442.1 |
| 2009 | 74 | 57.3 | 11.1 | 2.9 | 3.1 | 4.6 | 7.8 | 7.5 | 3 | 7.7 | 97.4 | 86.6 | 363 |
| 2010 | 90.2 | 49.4 | 29.1 | 10.7 | 3.7 | 2.6 | 1.4 | 14.7 | 4.3 | 6.9 | 18.4 | 35.2 | 266.6 |
| 2011 | 64.9 | 59.1 | 0.7 | 0 | 3.5 | 3.7 | 2.8 | 4 | 2.1 | 4 | 4.9 | 13.4 | 163.1 |
| 2012 | 36.8 | 17.5 | 11.2 | 63.6 | 17 | 49.7 | 40.4 | 9.4 | 21.9 | 71.2 | 140.9 | 151.3 | 630.9 |
| 2013 | 79.6 | 41.4 | 55.3 | 2.1 | 5.9 | 0.8 | 2.8 | 1.3 | 5.8 | 18.4 | 50.5 | 126.6 | 390.5 |
| 2014 | 202.9 | 146.3 | 13.2 | 5.6 | 4.5 | 1.3 | 2.2 | 10.1 | 0.1 | 10.6 | 44.7 | 41.7 | 483.2 |
| 2015 | 75.5 | 44.4 | 3.3 | 0.3 | 4.6 | 3.2 | 4.8 | 5.6 | 4 | 8.3 | 19.5 | 102.3 | 275.8 |
| 2016 | 103.5 | 64.3 | 64 | 13 | 5.9 | 3.5 | 0 | 3.3 | 4.8 | 1.7 | 13.9 | 16.4 | 294.3 |
| 2017 | 69.4 | 28.2 | 27.6 | 0.5 | 5.2 | 5.7 | 6.7 | 3 | 5.5 | 3.6 | 7.8 | 92.7 | 255.9 |
| 2018 | 72 | 24.9 | 75.1 | 20 | 8.8 | 0 | - | - | - | - | - | - | 200.8 |
| min | 3.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 2.8 | 1.8 | 101.6 |
| max | 202.9 | 146.3 | 148.0 | 101.6 | 106.3 | 49.7 | 109.3 | 58.1 | 109.1 | 139.4 | 180.5 | 188.9 | 679.3 |
| avg | 72.6 | 45.7 | 30.5 | 16.4 | 10.1 | 7.3 | 7.3 | 8.2 | 14.7 | 26.8 | 59.1 | 71.9 | 368.6 |

Note: The Cotswold-West model cell is generally referenced as 6010 in Environment Agency water resources situation reports for the Thames region.

B-4 Hydrological Analysis

Figure B-4-1 Cinder Lane annual maxima, 2002-2018

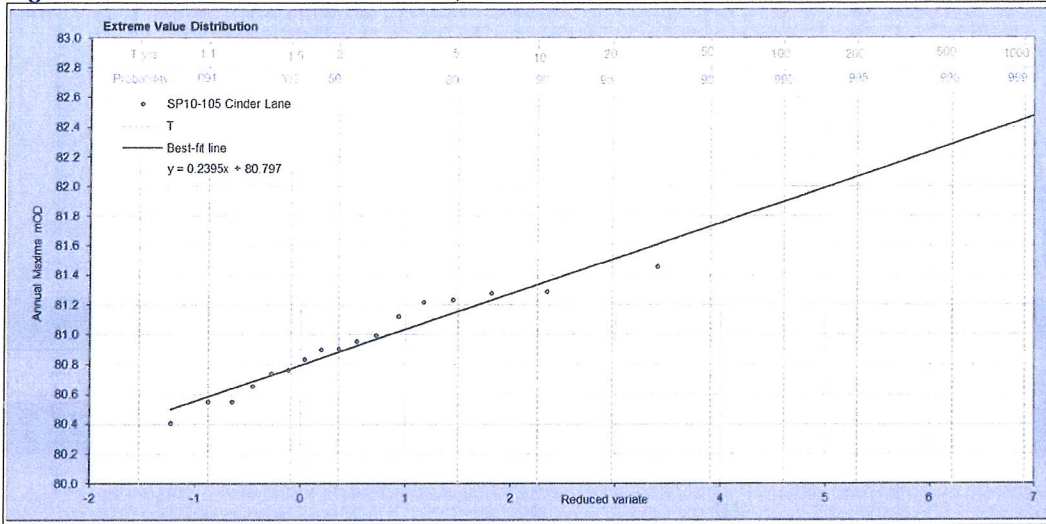
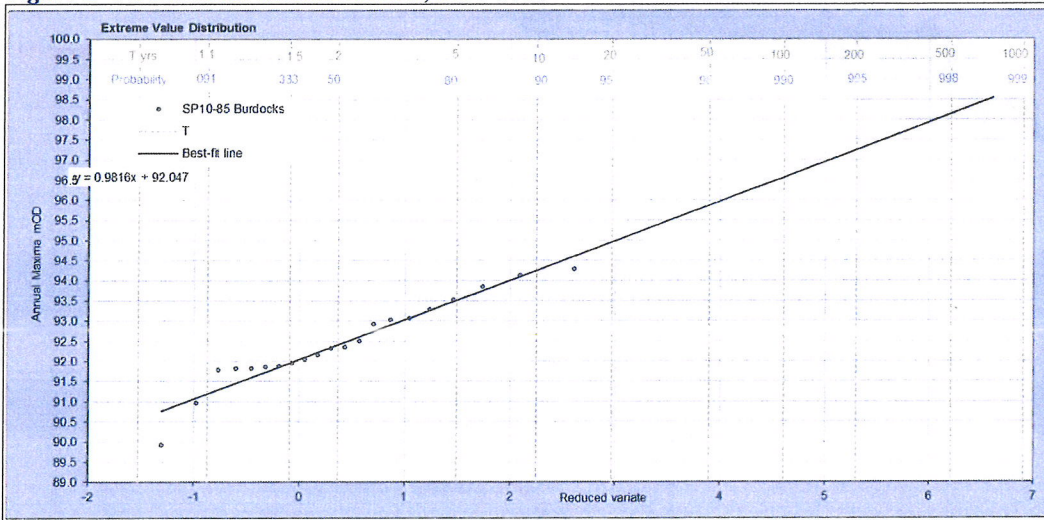
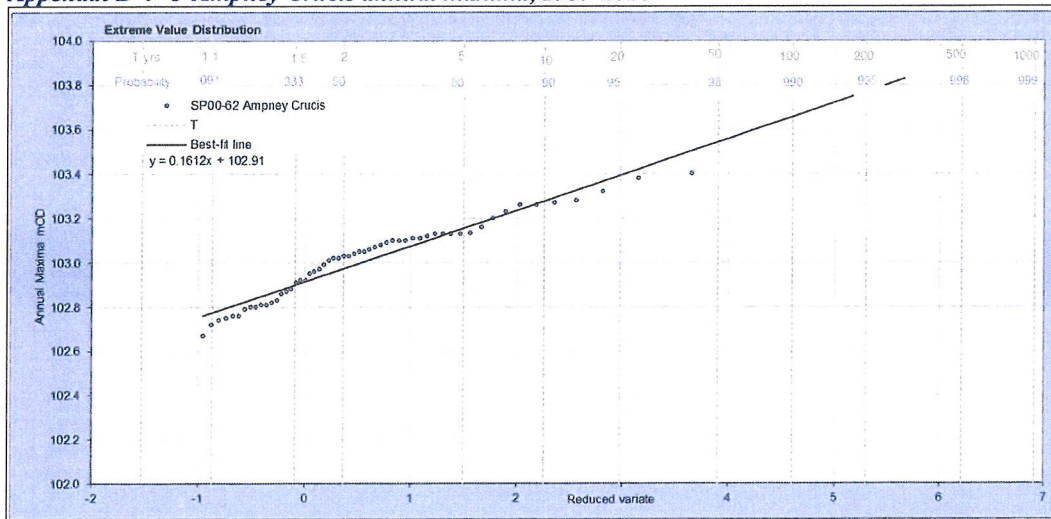


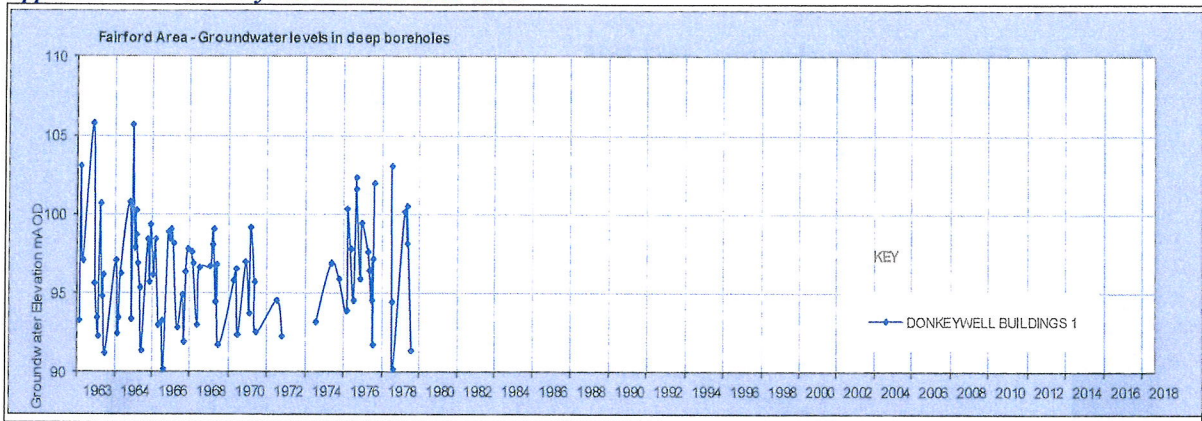
Figure B-4-2 Burdocks annual maxima, 2004-2018



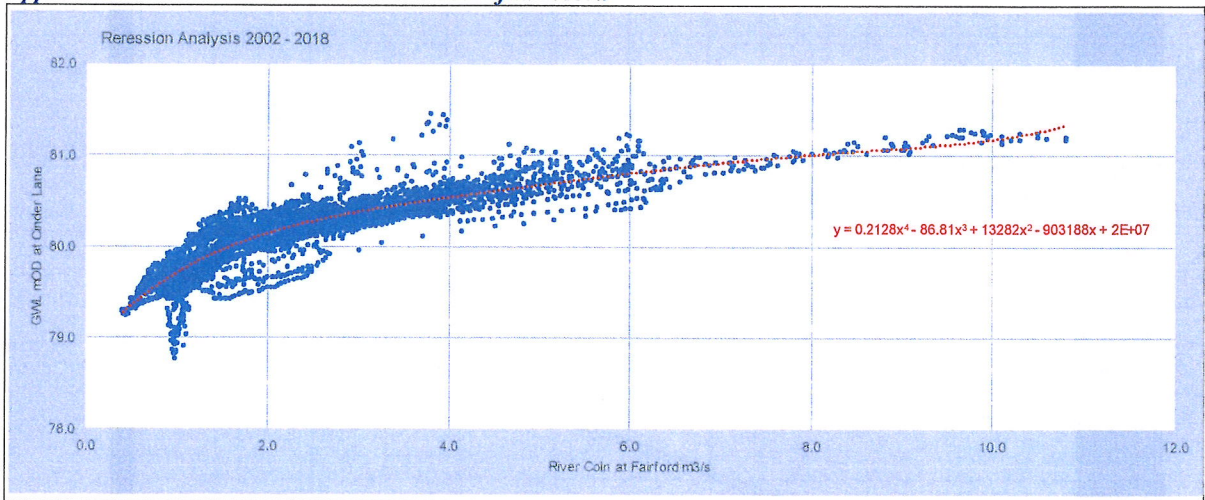
Appendix B-4--3 Ampney Crucis annual maxima, 1959-2018



Appendix B-4-4 Donkeywell borehole 1963-1978



Appendix B-4-5 Cinder Lane and River Coln: full record



Appendix B-4-6 Cinder Lane and River Coln: Summer 2007

