

Foxley Wood Analysis

Foxley

Soil type in all areas was clay – further detailed soil analysis was not conducted

GROUP 1: Fox01 to fox05 were obtained from a young stand of oaks on the North edge of the wood. This stand was the most ‘wooded’ area sampled – ie the trees were not on the very boundary of the wood. Core length of these five trees ranged from 46 years to 93 years. They have a mean correlation with the master chronology of **0.574**.

GROUP 2: Fox06 to fox13 were obtained from the eastern boundary of the wood along Fir Lane road. These trees ranged in age from 79 to 213 years old. These trees have a mean correlation with the master of **0.48**. This group is the oldest group sampled.

GROUP 3: Fox14 to Fox18 were sampled along the south-eastern boundary of the wood , again as the trees on the edge as these were suspected to be of greatest age. These trees ranged from 55 to 107 years old, and had a mean correlation with the master chronology of **0.588**.

GROUP 4: Fox19 to Fox21 were taken from just outside the wood, alongside the main Reepham Road. These trees ranged in age from 135 to 156 years old, and had a mean correlation to the master chronology of **0.42**.

GROUP 5: Fox22 to Fox27 were taken from the south-western boundary of the wood. These had an age range of 134 to 183 years old, and a mean correlation to the master chronology of **0.528**.

GROUP 6: Fox28 to Fox30 were obtained close to group 5, but slightly further into the wood. Ages ranged from 77 to 148 years old, with a mean correlation to the master chronology of **0.553**.

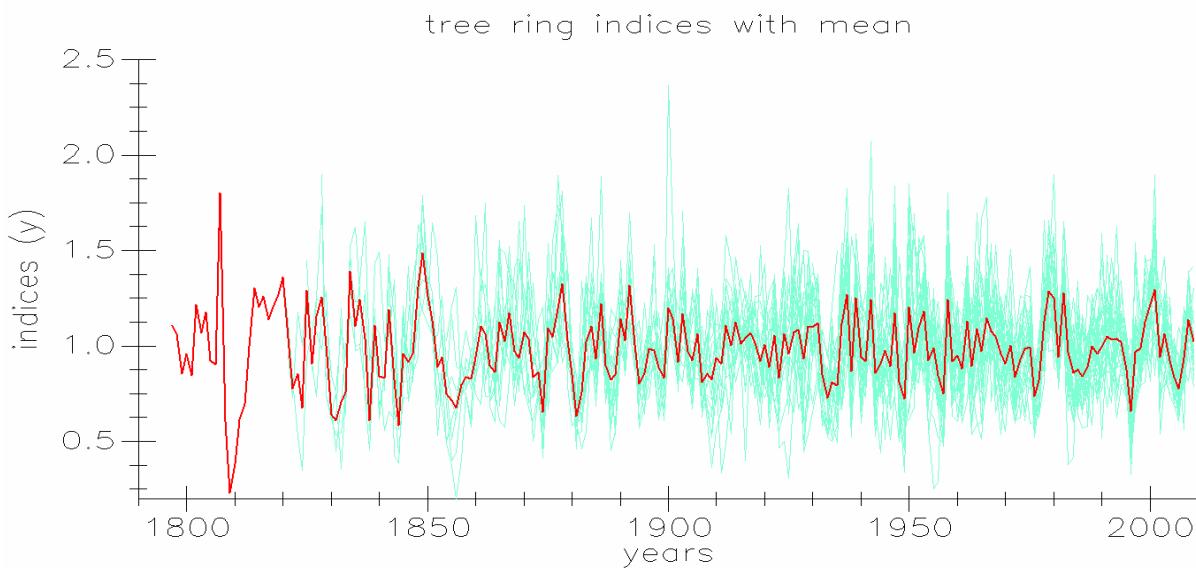
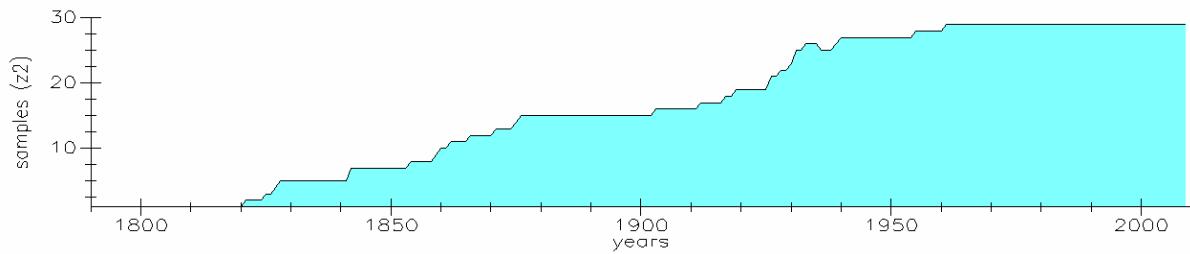
The maximum distance between groups 1 and 4 was 1.41 kilometres.

RAW PRE-EPS chronology statistics – 1797-2009

| Cores | Initial First Year | Last Year | Age (yrs) | Mean Ring Width (mm) | Standard Deviation | Correlation with Chronology | RBAR |
|---------------|--------------------|-------------|------------|----------------------|--------------------|-----------------------------|-------------|
| <i>Fox01</i> | 1931 | 2009 | 79 | 3.45 | 1.02 | 0.53 | 0.36 |
| <i>Fox 02</i> | 1926 | 2009 | 84 | 3.26 | 1.47 | 0.66 | 0.43 |
| <i>Fox 03</i> | 1961 | 2009 | 49 | 6.90 | 1.87 | 0.61 | 0.39 |
| <i>Fox04</i> | 1926 | 2009 | 84 | 2.90 | 1.36 | 0.54 | 0.36 |
| <i>Fox05</i> | 1917 | 2009 | 93 | 2.92 | 0.73 | 0.53 | 0.36 |
| <i>Fox06</i> | 1828 | 2009 | 182 | 1.82 | 0.87 | 0.53 | 0.42 |
| <i>Fox07</i> | 1842 | 2009 | 168 | 1.94 | 0.83 | 0.51 | 0.36 |
| <i>Fox08</i> | 1821 | 2009 | 189 | 1.64 | 0.95 | 0.34 | 0.44 |
| <i>Fox09</i> | 1797 | 2009 | 213 | 1.51 | 0.86 | 0.51 | 0.32 |
| <i>Fox10</i> | 1912 | 2009 | 98 | 3.44 | 1.65 | 0.69 | 0.45 |
| <i>Fox12</i> | 1931 | 2009 | 79 | 3.69 | 1.26 | 0.41 | 0.27 |
| <i>Fox13</i> | 1825 | 2009 | 185 | 1.91 | 1.22 | 0.47 | 0.37 |
| <i>Fox14</i> | 1939 | 2009 | 71 | 3.36 | 1.61 | 0.56 | 0.36 |
| <i>Fox15</i> | 1928 | 2009 | 82 | 3.19 | 1.32 | 0.44 | 0.30 |
| <i>Fox16</i> | 1955 | 2009 | 55 | 5.08 | 1.67 | 0.61 | 0.39 |
| <i>Fox17</i> | 1903 | 2009 | 107 | 3.26 | 1.41 | 0.65 | 0.43 |
| <i>Fox18</i> | 1919 | 2009 | 91 | 3.11 | 1.10 | 0.68 | 0.43 |
| <i>Fox19</i> | 1871 | 2009 | 139 | 1.90 | 1.07 | 0.40 | 0.29 |
| <i>Fox20</i> | 1854 | 2009 | 156 | 2.42 | 1.84 | 0.38 | 0.27 |
| <i>Fox21</i> | 1875 | 2009 | 135 | 2.75 | 1.47 | 0.48 | 0.32 |
| <i>Fox22</i> | 1866 | 2009 | 144 | 2.41 | 1.03 | 0.45 | 0.30 |
| <i>Fox23</i> | 1842 | 2009 | 168 | 2.13 | 1.19 | 0.50 | 0.33 |
| <i>Fox24</i> | 1876 | 2009 | 134 | 2.47 | 0.79 | 0.61 | 0.41 |
| <i>Fox25</i> | 1827 | 2009 | 183 | 2.09 | 0.85 | 0.46 | 0.39 |
| <i>Fox26</i> | 1860 | 2009 | 150 | 2.71 | 1.04 | 0.58 | 0.39 |
| <i>Fox27</i> | 1859 | 2009 | 151 | 2.13 | 0.69 | 0.57 | 0.39 |
| <i>Fox28</i> | 1930 | 2009 | 80 | 3.66 | 1.39 | 0.47 | 0.31 |
| <i>Fox29</i> | 1862 | 2009 | 148 | 1.96 | 0.72 | 0.56 | 0.34 |
| <i>Fox30</i> | 1933 | 2009 | 77 | 4.55 | 1.32 | 0.63 | 0.41 |
| MEAN | 1887 | 2009 | 123 | 2.57 | 1.19 | 0.53 | 0.37 |

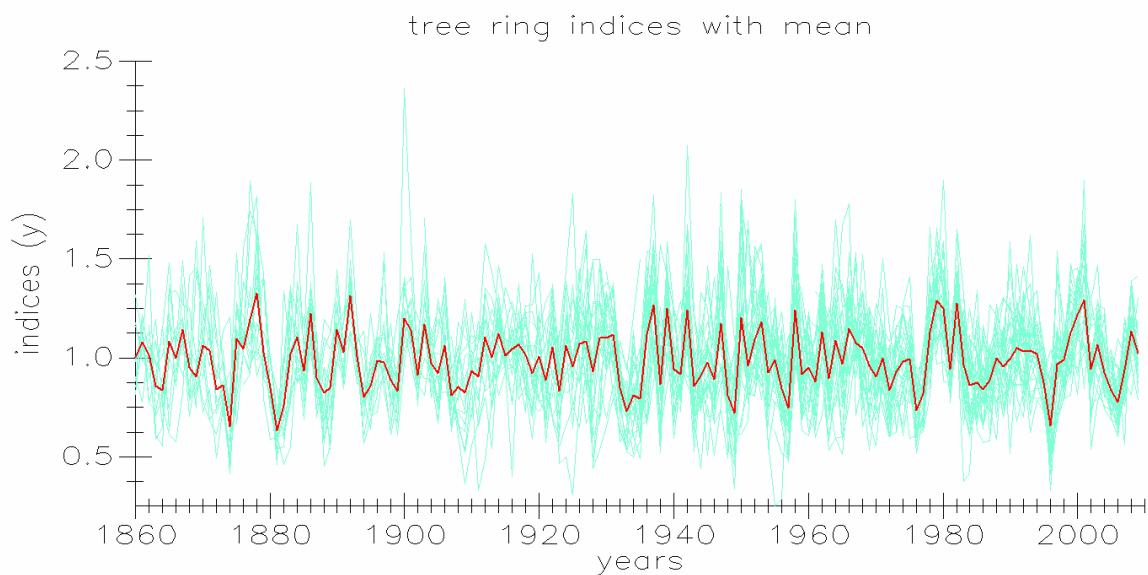
Raw chronology stats

| Year | 1800 | 1825 | 1850 | 1875 | 1900 | 1925 | 1950 | 1975 | Mean Core |
|-------------------|------|------|------|------|------|------|------|------|-----------|
| To | 1849 | 1874 | 1899 | 1924 | 1949 | 1974 | 1999 | 2024 | |
| <i>Fox01</i> | | | | | | 0.54 | 0.65 | 0.59 | 0.59 |
| <i>Fox 02</i> | | | | | | 0.57 | 0.64 | 0.67 | 0.63 |
| <i>Fox 03</i> | | | | | | | 0.61 | 0.61 | 0.61 |
| <i>Fox04</i> | | | | | | 0.44 | 0.62 | 0.70 | 0.59 |
| <i>Fox05</i> | | | | | 0.58 | 0.62 | 0.53 | 0.45 | 0.54 |
| <i>Fox06</i> | | 0.62 | 0.69 | 0.70 | 0.70 | 0.71 | 0.76 | 0.59 | 0.68 |
| <i>Fox07</i> | | 0.49 | 0.46 | 0.61 | 0.75 | 0.60 | 0.47 | 0.57 | 0.56 |
| <i>Fox08</i> | 0.30 | 0.43 | 0.36 | 0.42 | 0.65 | 0.82 | 0.87 | 0.77 | 0.58 |
| <i>Fox09</i> | 0.53 | 0.54 | 0.49 | 0.49 | 0.54 | 0.59 | 0.50 | 0.47 | 0.52 |
| <i>Fox10</i> | | | | | 0.61 | 0.67 | 0.74 | 0.78 | 0.70 |
| <i>Fox12</i> | | | | | | 0.41 | 0.41 | 0.47 | 0.43 |
| <i>Fox13</i> | | 0.65 | 0.68 | 0.57 | 0.55 | 0.56 | 0.57 | 0.57 | 0.59 |
| <i>Fox14</i> | | | | | | 0.64 | 0.49 | 0.43 | 0.52 |
| <i>Fox15</i> | | | | | | 0.41 | 0.55 | 0.49 | 0.48 |
| <i>Fox16</i> | | | | | | | 0.60 | 0.64 | 0.62 |
| <i>Fox17</i> | | | | | 0.67 | 0.72 | 0.66 | 0.60 | 0.66 |
| <i>Fox18</i> | | | | | 0.67 | 0.70 | 0.72 | 0.67 | 0.69 |
| <i>Fox19</i> | | | 0.29 | 0.34 | 0.43 | 0.48 | 0.49 | 0.45 | 0.41 |
| <i>Fox20</i> | | | 0.42 | 0.63 | 0.40 | 0.40 | 0.43 | 0.37 | 0.44 |
| <i>Fox21</i> | | | | 0.45 | 0.41 | 0.46 | 0.60 | 0.51 | 0.49 |
| <i>Fox22</i> | | | 0.52 | 0.60 | 0.35 | 0.43 | 0.54 | 0.46 | 0.48 |
| <i>Fox23</i> | | 0.53 | 0.60 | 0.55 | 0.63 | 0.60 | 0.38 | 0.46 | 0.54 |
| <i>Fox24</i> | | | | 0.55 | 0.49 | 0.59 | 0.74 | 0.76 | 0.63 |
| <i>Fox25</i> | | 0.48 | 0.60 | 0.71 | 0.67 | 0.57 | 0.53 | 0.66 | 0.60 |
| <i>Fox26</i> | | | 0.53 | 0.68 | 0.70 | 0.61 | 0.57 | 0.65 | 0.62 |
| <i>Fox27</i> | | | 0.67 | 0.55 | 0.58 | 0.62 | 0.60 | 0.71 | 0.62 |
| <i>Fox28</i> | | | | | | 0.49 | 0.41 | 0.51 | 0.47 |
| <i>Fox29</i> | | | 0.66 | 0.53 | 0.55 | 0.54 | 0.55 | 0.57 | 0.57 |
| <i>Fox30</i> | | | | | | 0.68 | 0.64 | 0.66 | 0.66 |
| MEAN | 0.41 | 0.53 | 0.54 | 0.56 | 0.58 | 0.57 | 0.58 | 0.58 | 0.57 |
| <i>Hethersett</i> | | 0.20 | 0.30 | 0.50 | 0.70 | 0.79 | 0.79 | 0.80 | 0.58 |
| <i>Felbrigg</i> | 0.48 | 0.52 | 0.61 | 0.55 | 0.60 | 0.75 | 0.79 | 0.77 | 0.63 |
| <i>Sotterly</i> | 0.26 | 0.31 | 0.53 | 0.50 | 0.66 | 0.69 | 0.65 | 0.69 | 0.54 |
| <i>Blickling</i> | 0.50 | 0.55 | 0.65 | 0.62 | 0.74 | 0.78 | 0.76 | 0.77 | 0.67 |
| <i>Babingley</i> | | 0.67 | 0.62 | 0.66 | 0.65 | 0.78 | 0.79 | | 0.69 |
| <i>Norfolk</i> | 0.51 | 0.55 | 0.74 | 0.72 | 0.85 | 0.90 | 0.89 | 0.90 | 0.76 |



An EPS of 0.854 is achieved when 10 or more trees are present. This means removing the start of the chronology from 1797-1860.

EPS adjusted ring indices



EPS adjusted chronology statistics

| Cores | Initial First Year | EPS First Year | Last Year | Age (yrs) | Mean Ring Width (mm) | Standard Deviation | Correlation with Chronology | RBAR |
|---------------|--------------------|----------------|-------------|------------|----------------------|--------------------|-----------------------------|-------------|
| <i>Fox01</i> | 1931 | 1931 | 2009 | 79 | 3.45 | 1.02 | 0.53 | 0.36 |
| <i>Fox 02</i> | 1926 | 1926 | 2009 | 84 | 3.26 | 1.47 | 0.66 | 0.43 |
| <i>Fox 03</i> | 1961 | 1961 | 2009 | 49 | 6.90 | 1.87 | 0.60 | 0.38 |
| <i>Fox04</i> | 1926 | 1926 | 2009 | 84 | 2.90 | 1.36 | 0.53 | 0.35 |
| <i>Fox05</i> | 1917 | 1917 | 2009 | 93 | 2.92 | 0.73 | 0.53 | 0.36 |
| <i>Fox06</i> | 1828 | 1860 | 2009 | 150 | 1.73 | 0.82 | 0.65 | 0.42 |
| <i>Fox07</i> | 1842 | 1860 | 2009 | 150 | 1.98 | 0.83 | 0.54 | 0.35 |
| <i>Fox08</i> | 1821 | 1860 | 2009 | 150 | 1.78 | 1.00 | 0.61 | 0.44 |
| <i>Fox09</i> | 1797 | 1860 | 2009 | 150 | 1.25 | 0.52 | 0.47 | 0.32 |
| <i>Fox10</i> | 1912 | 1912 | 2009 | 98 | 3.44 | 1.65 | 0.69 | 0.45 |
| <i>Fox12</i> | 1931 | 1931 | 2009 | 79 | 3.69 | 1.26 | 0.42 | 0.28 |
| <i>Fox13</i> | 1825 | 1860 | 2009 | 50 | 1.75 | 1.01 | 0.55 | 0.36 |
| <i>Fox14</i> | 1939 | 1939 | 2009 | 71 | 3.36 | 1.61 | 0.56 | 0.36 |
| <i>Fox15</i> | 1928 | 1928 | 2009 | 82 | 3.19 | 1.32 | 0.44 | 0.30 |
| <i>Fox16</i> | 1955 | 1955 | 2009 | 55 | 5.08 | 1.67 | 0.61 | 0.40 |
| <i>Fox17</i> | 1903 | 1903 | 2009 | 107 | 3.26 | 1.41 | 0.64 | 0.43 |
| <i>Fox18</i> | 1919 | 1919 | 2009 | 91 | 3.11 | 1.10 | 0.69 | 0.43 |
| <i>Fox19</i> | 1871 | 1871 | 2009 | 139 | 1.90 | 1.07 | 0.40 | 0.29 |
| <i>Fox20</i> | 1854 | 1860 | 2009 | 150 | 2.31 | 1.77 | 0.45 | 0.28 |
| <i>Fox21</i> | 1876 | 1876 | 2009 | 134 | 2.75 | 1.47 | 0.48 | 0.32 |
| <i>Fox22</i> | 1866 | 1860 | 2009 | 150 | 2.41 | 1.03 | 0.44 | 0.30 |
| <i>Fox23</i> | 1842 | 1860 | 2009 | 150 | 1.89 | 0.76 | 0.54 | 0.34 |
| <i>Fox24</i> | 1876 | 1876 | 2009 | 134 | 2.47 | 0.79 | 0.61 | 0.42 |
| <i>Fox25</i> | 1827 | 1860 | 2009 | 150 | 1.97 | 0.76 | 0.61 | 0.39 |
| <i>Fox26</i> | 1860 | 1860 | 2009 | 150 | 2.71 | 1.04 | 0.58 | 0.39 |
| <i>Fox27</i> | 1859 | 1860 | 2009 | 150 | 2.13 | 0.69 | 0.58 | 0.39 |
| <i>Fox28</i> | 1930 | 1930 | 2009 | 80 | 3.66 | 1.39 | 0.47 | 0.31 |
| <i>Fox29</i> | 1862 | 1862 | 2009 | 148 | 1.96 | 0.72 | 0.56 | 0.34 |
| <i>Fox30</i> | 1933 | 1933 | 2009 | 77 | 4.55 | 1.32 | 0.63 | 0.41 |
| MEAN | 1887 | 1898 | 2009 | 114 | 2.59 | 1.15 | 0.55 | 0.37 |

| Year | 1850 | 1875 | 1900 | 1925 | 1950 | 1975 | Mean Core |
|----------------------|------|------|------|------|------|------|-----------|
| To | 1899 | 1924 | 1949 | 1974 | 1999 | 2024 | |
| <i>Fox01</i> | | | | 0.54 | 0.65 | 0.59 | 0.59 |
| <i>Fox 02</i> | | | | 0.56 | 0.64 | 0.67 | 0.62 |
| <i>Fox 03</i> | | | | | 0.60 | 0.60 | 0.60 |
| <i>Fox04</i> | | | | 0.44 | 0.61 | 0.69 | 0.58 |
| <i>Fox05</i> | | | 0.58 | 0.62 | 0.52 | 0.44 | 0.54 |
| <i>Fox06</i> | 0.69 | 0.70 | 0.69 | 0.71 | 0.77 | 0.60 | 0.69 |
| <i>Fox07</i> | 0.48 | 0.61 | 0.75 | 0.59 | 0.47 | 0.58 | 0.58 |
| <i>Fox08</i> | 0.37 | 0.44 | 0.63 | 0.81 | 0.88 | 0.79 | 0.65 |
| <i>Fox09</i> | 0.49 | 0.49 | 0.56 | 0.57 | 0.50 | 0.49 | 0.52 |
| <i>Fox10</i> | | | 0.61 | 0.67 | 0.75 | 0.79 | 0.70 |
| <i>Fox12</i> | | | | 0.41 | 0.41 | 0.47 | 0.43 |
| <i>Fox13</i> | 0.63 | 0.56 | 0.55 | 0.56 | 0.57 | 0.60 | 0.58 |
| <i>Fox14</i> | | | | 0.63 | 0.49 | 0.42 | 0.52 |
| <i>Fox15</i> | | | | 0.41 | 0.54 | 0.48 | 0.48 |
| <i>Fox16</i> | | | | | 0.61 | 0.65 | 0.63 |
| <i>Fox17</i> | | | 0.67 | 0.72 | 0.65 | 0.59 | 0.66 |
| <i>Fox18</i> | | | 0.67 | 0.70 | 0.72 | 0.67 | 0.70 |
| <i>Fox19</i> | 0.28 | 0.34 | 0.43 | 0.49 | 0.50 | 0.46 | 0.42 |
| <i>Fox20</i> | 0.59 | 0.61 | 0.40 | 0.40 | 0.44 | 0.38 | 0.47 |
| <i>Fox21</i> | | 0.45 | 0.42 | 0.47 | 0.60 | 0.51 | 0.49 |
| <i>Fox22</i> | 0.52 | 0.59 | 0.34 | 0.43 | 0.54 | 0.46 | 0.48 |
| <i>Fox23</i> | 0.61 | 0.55 | 0.62 | 0.58 | 0.39 | 0.49 | 0.54 |
| <i>Fox24</i> | | 0.56 | 0.50 | 0.59 | 0.74 | 0.76 | 0.63 |
| <i>Fox25</i> | 0.69 | 0.72 | 0.67 | 0.57 | 0.53 | 0.65 | 0.64 |
| <i>Fox26</i> | 0.54 | 0.69 | 0.69 | 0.61 | 0.57 | 0.65 | 0.63 |
| <i>Fox27</i> | 0.67 | 0.55 | 0.58 | 0.62 | 0.60 | 0.71 | 0.62 |
| <i>Fox28</i> | | | | 0.49 | 0.41 | 0.51 | 0.47 |
| <i>Fox29</i> | 0.66 | 0.54 | 0.55 | 0.54 | 0.55 | 0.57 | 0.57 |
| <i>Fox30</i> | | | | 0.68 | 0.64 | 0.67 | 0.67 |
| MEAN | 0.56 | 0.56 | 0.58 | 0.57 | 0.58 | 0.58 | 0.57 |
| | | | | | | | |
| <i>EPShethersett</i> | 0.53 | 0.50 | 0.69 | 0.79 | 0.79 | 0.80 | 0.68 |
| <i>EPSFelbrigg</i> | 0.68 | 0.54 | 0.59 | 0.74 | 0.79 | 0.76 | 0.68 |
| <i>EPSSotterly</i> | 0.58 | 0.51 | 0.66 | 0.69 | 0.65 | 0.70 | 0.63 |
| <i>EPSBlickling</i> | 0.71 | 0.63 | 0.74 | 0.78 | 0.76 | 0.78 | 0.73 |
| <i>EPSBabingley</i> | 0.58 | 0.65 | 0.64 | 0.78 | 0.79 | | 0.69 |
| <i>EPSNorfolk</i> | 0.79 | 0.73 | 0.84 | 0.90 | 0.90 | 0.90 | 0.84 |

Location of Foxley Wood oak

- = Location
- IV = Photograph position
- 1 = Core number

PUT COMPASS ARROWS ON WE KNOW WHICH IS NORTH



Photographs of Foxley Wood oak

