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## Broadbalk Wheat Experiment Dates of Key Field Operations 1843-2021

**DOI:** <https://doi.org/10.23637/rbk1-keydates-pdf-01>

**Cite as:** Poulton, P.R. and Glendining, M.J. (2023) *Broadbalk Wheat Experiment Dates of Key Field Operations 1843-2021*, *Electronic Rothamsted Archive*, Rothamsted Research, Harpenden, UK.  
<https://doi.org/10.23637/rbk1-keydates-pdf-01>

**Published by:** Electronic Rothamsted Archive, Rothamsted Research, Harpenden, UK

**Date:** February 2023

**Description:** Details of the dates of key field operations on the Broadbalk Winter Wheat Experiment, since 1843. Dates of sowing and harvest, ploughing, application dates for farmyard manure (FYM) and Nitrogen (N) fertilizer, and wheat cultivars. The first wheat crop was sown in the autumn of 1843. Published as a pdf.

- **Page 1:** Cover Page
- **Page 2:** Table 1, Key dates 1843-1925
- **Page 3:** Table 2, Key dates 1926-1967
- **Page 4:** Table 2, Key dates 1968-2021
  
- **Site:** R/BK/1. Broadbalk field, Rothamsted Experimental Farm, Rothamsted Research, West Common, Harpenden, Hertfordshire, AL5 2JQ, UK. Latitude 51.80946, Longitude -0.37301

### Derived from:

- Rothamsted Experimental Station (1970) *Details of the Classical and Long-Term Experiments up to 1967*, Rothamsted Experimental Station, Lawes Agricultural Trust, Harpenden UK, (128 pp) DOI: <https://doi.org/10.23637/ERADOC-1-192>
- Johnston, A. E. and Garner, H. V. (1969) Broadbalk: Historical Introduction, Rothamsted Experimental Station Report for 1968, Part 2, (12-25)  
DOI: <https://doi.org/10.23637/ERADOC-1-34916>
- Anon, *Yields of the Long-term Experiments*, Rothamsted Research, Lawes Agricultural Trust, Harpenden, UK. <https://www.era.rothamsted.ac.uk/eradoc/books/2>

**Funding:** Rothamsted Research receives strategic funding from the UK Biotechnology and Biological Sciences Research Council (BBSRC). The Rothamsted Long-term Experiments National Capability is supported by the BBSRC Grant BBS/E/C/000J0300 and the Lawes Agricultural Trust.

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**Broadbalk Winter Wheat, dates of ploughing, sowing, harvesting, FYM and N application 1843-1925**

Harvest year	FYM application	Ploughing <sup>a</sup>	Seed-bed preparation and sowing	Autumn N application <sup>b</sup>	Main Spring N application <sup>c</sup>	Harvest	Cultivar
1844	October 1843	*	October 1843	October 1843	Not applied	*	Old Red Lammas
1845	March 1845	*	March 1845	March 1845	Not applied	*	Old Red Lammas
1846	Autumn 1845	*	Autumn 1845	Autumn 1845	Not applied	*	Old Red Lammas
1847	27/10/1846	Autumn 1846	28/10/1846	27/10/1846	Not applied	*	Old Red Lammas
1848	Autumn 1847	Autumn 1847	Autumn 1847	Autumn 1847	Not applied	Before 23/08/1848	Old Red Lammas
1849	Autumn 1848	Autumn 1848	Autumn 1848	Autumn 1848	Not applied	17/08/1849	Old Red Cluster
1850	Autumn 1849	Autumn 1849	05/11/1849	Autumn 1849	Not applied	19/08/1850	Old Red Cluster
1851	Autumn 1850	Autumn 1850	07/11/1850	Autumn 1850	Not applied	*	Old Red Cluster
1852	8/10/1851	Autumn 1851	07/11/1851	8/10/1851	Not applied	24/08/1852	Old Red Cluster
1853	27/02/1853	Autumn 1852	16/03/1853	27/02/1853	Not applied	10/09/1853	Red Rostock
1854	08/11/1853	30/09/1853	12/11/1853	08/11/1853	Not applied	22/08/1854	Red Rostock
1855	01/11/1854	16/09/1854	09/11/1854	01/11/1854	Not applied	26/08/1855	Red Rostock
1856	22/10/1855	25/10/1855	13/11/1855	22/10/1855	Not applied	22/08/1856	Red Rostock
1857	27/10/1856	17/09/1856	06/11/1856	27/10/1856	Not applied	13/08/1857	Red Rostock
1858	15/10/1857	21/09/1857	03/11/1857	15/10/1857	31/03/1858	09/08/1858	Red Rostock
1859	30/10/1858	27/09/1858	03/11/1858	30/10/1858	19/03/1859	04/08/1859	Red Rostock
1860	10/11/1859	07/09/1859	17/11/1859	10/11/1859	Not applied	17/09/1860	Red Rostock
1861	29/10/1860	Autumn 1860	05/11/1860	29/10/1860	Not applied	21/08/1861	Red Rostock
1862	Autumn 1861	Autumn 1861	25/10/1861	Autumn 1861	Not applied	29/08/1862	Red Rostock
1863	03/11/1862	05/11/1862	17/11/1862	03/11/1862	Not applied	06/08/1863	Red Rostock
1864	27/09/1863	Autumn 1863	16/11/1863	27/09/1863	Not applied	12/08/1864	Red Rostock
1865	31/10/1864	Autumn 1864	10/11/1864	25/10/1864	15/03/1865	10/08/1865	Red Rostock
1866	07/11/1865	Autumn 1865	10/11/1865	07/11/1865	Not applied	12/08/1866	Red Rostock
1867	05/11/1866	Autumn 1866	08/11/1866	05/11/1866	25/3/1867	23/08/1867	Red Rostock
1868	30/10/1867	31/10/1867	02/11/1867	30/10/1867	18/03/1868	22/07/1868	Red Rostock
1869	27/10/1868	August 1868	03/11/1868	28/10/1868	01/04/1869	16/08/1869	Red Rostock
1870	30/10/1869	21/09/1869	03/11/1869	30/10/1869	25/03/1870	05/08/1870	Red Rostock
1871	22/10/1870	Sept 1870	28/11/1870	18/10/1870	23/03/1871	21/08/1871	Red Rostock
1872	14/10/1871	Early Sept 1871	01/11/1871	16/10/1871	07/03/1872	16/08/1872	Red Rostock
1873	17/10/1872	23/10/1872	08/11/1872	17/10/1872	25/03/1873	15/08/1873	Red Rostock
1874	27/10/1873	Early Sept 1873	29/10/1873	27/10/1873	19/03/1874	03/08/1874	Red Rostock
1875	21/10/1874	21/10/1874	26/10/1874	20/10/1874	23/03/1875	16/08/1875	Red Rostock
1876	29/10/1875	29/10/1875	01/11/1875	29/10/1875	24/03/1876	08/08/1876	Red Rostock
1877	16/10/1876	29/08/1876	23/10/1876	16/10/1876	11/04/1877	18/08/1877	Red Rostock
1878	02/11/1877	01/11/1877	02/11/1877	2/11/1877	14/03/1878	01/08/1878	Red Rostock
1879	14/10/1878	15/10/1878	30/10/1878	14/10/1878	10/03/1879	04/09/1879	Red Rostock
1880	22/10/1879	22/10/1879	27/10/1879	22/10/1879	09/03/1880	14/08/1880	Red Rostock
1881	25/09/1880	24/09/1880	25/10/1880	25/10/1880	12/03/1881	08/08/1881	Red Rostock
1882	20/10/1881	27/10/1881	31/10/1881	27/10/1881	23/02/1882	10/08/1882	Red Club
1883	02/11/1882	Late August 1882	06/11/1882	02/11/1882	02/03/1883	13/08/1883	Red Club
1884	11/10/1883	Late August 1883	22/10/1883	09/10/1883	07/03/1884	31/07/1884	Red Club
1885	14/10/1884	Late August 1884	27/10/1884	14/10/1884	16/03/1885	06/08/1885	Red Club
1886	20/10/1885	19/08/1885	22/10/1885	19/10/1885	26/03/1886	18/08/1886	Red Club
1887	19/10/1886	03/09/1886	23/10/1886	14/10/1886	03/03/1887	04/08/1887	Red Club
1888	06/10/1887	08/10/1887	24/10/1887	10/10/1887	12/04/1888	30/08/1888	Red Club
1889	23/10/1888	Early October 1888	31/10/1888	24/10/1888	18/03/1889	13/08/1889	Red Club
1890	30/10/1889	26/10/1889	02/11/1889	26/10/1889	31/03/1890	12/08/1890	Red Club
1891	13/10/1890	Late August 1890	24/10/1890	13/10/1890	19/02/1891	26/02/1891	Red Club
1892	28/10/1891	28/10/1891	30/10/1891	29/10/1891	21/03/1892	15/08/1892	Red Club
1893	18/10/1892	25/08/1892	24/10/1892	19/10/1892	09/03/1893	25/07/1893	Red Club
1894	19/10/1893	11/08/1893	24/10/1893	23/10/1893	19/03/1894	08/08/1894	Red Club
1895	05/10/1894	29/08/1894	20/10/1894	09/10/1894	22/03/1895	30/07/1895	Red Club
1896	01/10/1895	20/08/1895	21/10/1895	14/10/1895	14/02/1896	18/07/1896	Red Club
1897	27/10/1896	01/08/1896	28/10/1896	27/10/1896	31/03/1897	05/08/1897	Red Club
1898	23/09/1897	16/08/1897	20/10/1897	23/09/1897	10/03/1898	09/08/1898	Red Club
1899	26/10/1898	20/08/1898	28/10/1898	25/10/1898	13/03/1899	29/07/1899	Red Club
1900	07/10/1899	06/10/1899	21/10/1899	14/10/1899	27/03/1900	01/08/1900	Squarehead's Master
1901	03/10/1900	30/08/1900	22/10/1900	18/10/1900	19/04/1901	01/08/1901	Squarehead's Master
1902	01/10/1901	02/10/1901	23/10/1901	21/10/1901	18/03/1902	15/08/1902	Squarehead's Master
1903	15/10/1902	22/10/1902	30/10/1902	21/10/1902	01/04/1903	20/08/1903	Squarehead's Master
1904	07/11/1903	05/09/1903	14/11/1903	05/11/1903	24/03/1904	04/08/1904	Squarehead's Master
1905	13/10/1904	10/10/1904	18/10/1904	14/10/1904	22/03/1905	31/07/1905	Giant Red
1906	21/11/1905	Late Sept 1905	18/12/1905	07/11/1905	10/04/1906	11/08/1906	Squarehead's Master
1907	05/10/1906	29/09/1906	15/10/1906	29/09/1906	25/03/1907	19/08/1907	Squarehead's Master
1908	17/10/1907	16/10/1907	06/11/1907	12/10/1907	07/04/1908	10/08/1908	Squarehead's Master
1909	23/09/1908	08/09/1908	24/10/1908	07/10/1908	07/04/1909	16/08/1909	Squarehead's Master
1910	23/09/1909	17/09/1909	26/11/1909	20/10/1909	16/03/1910	15/08/1910	Browick Red
1911	07/10/1910	08/10/1910	21/10/1910	08/10/1910	25/03/1911	03/08/1911	Little Joss
1912	15/09/1911	26/09/1911	06/10/1911	26/09/1911	27/03/1912	21/08/1912	Little Joss
1913	15/10/1912	04/09/1912	19/10/1912	26/09/1912	03/04/1913	11/08/1913	Squarehead's Master
1914	14/10/1913	30/08/1913	01/11/1913	14/10/1913	03/04/1914	03/08/1914	Squarehead's Master
1915	No FYM applied	04/10/1914	03/11/1914	Not applied	10/04/1915	16/08/1915	Squarehead's Master
1916	11/10/1915	02/09/1915	04/11/1915	11/10/1915	03/05/1916	22/08/1916	Squarehead's Master
1917	25/10/1916	21/10/1916	01/12/1916	01/12/1916	23/04/1917	22/08/1917	Red Standard
1918	24/10/1917	11/10/1917	31/10/1917	29/10/1917	08/03/1918	14/08/1918	Red Standard
1919	10/10/1918	31/09/1918	25/10/1918	24/10/1918	18/03/1919	14/08/1919	Red Standard
1920	07/10/1919	29/09/1919	24/10/1919	08/10/1919	18/03/1920	16/08/1920	Red Standard
1921	13/10/1920	30/09/1920	04/11/1920	22/10/1920	18/03/1921	27/07/1921	Red Standard
1922	28/09/1921	27/09/1921	28/10/1921	30/09/1921	10/04/1922	29/08/1922	Red Standard
1923	26/09/1922	21/09/1922	31/10/1922	13/10/1922	19/04/1923	15/08/1923	Red Standard
1924	01/10/1923	01/10/1923	09/11/1923	15/10/1923	10/04/1924	05/09/1924	Red Standard
1925	07/10/1924	02/10/1924	24/10/1924	23/10/1924	15/04/1925	17/08/1925	Red Standard

\* No date recorded

<sup>a</sup> Inorganic fertilisers (PKNaMg and autumn N) castor meal and FYM are generally applied to the stubble of the previous crop.

The experiment is then ploughed within a day or two of the FYM application unless the weather is poor.

<sup>b</sup> Autumn N application (ammonium). All applied in autumn 1852-1877 except plot 15 in spring 1873-77.

Plot 15 only in autumn 1878-1883. 1884-1925 24kgN in autumn, remainder in spring, except plot 15 all in autumn.

<sup>c</sup> Main Spring N application, ammonium (N) or nitrate (N\*). One application, except plot 16 applied as two equal amounts six days to six weeks apart.

**Broadbalk Winter Wheat, dates of ploughing, sowing, harvesting, FYM and N application 1926-1967**

Harvest year	FYM application	Ploughing <sup>a</sup>	Seed-bed preparation and sowing	Autumn N application <sup>b</sup>	Main Spring N application <sup>c</sup>	Harvest	Cultivar
1926	23/11/1925	28/10/1925	25/11/1925	23/11/1925	17-22/03/1926	26/08/1926	Red Standard
1927	29/09/1926	29/09/1926	08/10/1926	06/10/1926	21/03/1927	26/08/1927	Red Standard
1928	17/10/1927	11/10/1927	18/10/1927	17/10/1927	21/04/1928	06/08/1928	Red Standard
1929	26/09/1928	20/09/1928	09/10/1928	14/10/1928	25/03/1929	09/08/1929	Squarehead's Master
1930	30/09/1929	30/09/1929	15/10/1929	12/10/1929	26/03/1930	16/08/1930	Red Standard
1931	06/10/1930	02/10/1930	16/10/1930	14/10/1930	27/03/1931	17/08/1931	Red Standard
1932	08/10/1931	29/08/1931	13/10/1931	08/10/1931	13/04/1932	09/08/1932	Red Standard
1933	05/09/1932	19/08/1932	17/10/1932	10/10/1932	29/03/1933	27/07/1933	Red Standard
1934	09/10/1933	08/08/1933	13/10/1933	09/10/1933	03/04/1934	01/08/1934	Red Standard
1935	20/08/1934	15/08/1934	23/10/1934	18/10/1934	27/03/1935	06/08/1935	Red Standard
1936	07/10/1935	19/08/1935	06/11/1935	28/10/1935	15/04/1936	21/08/1936	Red Standard
1937	23/09/1936	15/09/1936	20/10/1936	06/10/1936	01/04/1937	09/08/1937	Red Standard
1938	22/09/1937	06/09/1937	04/11/1937	12/10/1937	11/03/1938	05/08/1938	Red Standard
1939	05/09/1938	20/08/1938	25/10/1938	21/10/1938	15/03/1939	17/08/1939	Red Standard
1940	28/09/1939	26/09/1939	24/10/1939	17/10/1939	10/04/1940	07/08/1940	Squarehead's Master
1941	07/10/1940	21/08/1940	25/10/1940	16/10/1940	31/03/1941	19/08/1941	Squarehead's Master
1942	17/09/1941	12/09/1941	23/10/1941	17/10/1941	14/04/1942	14/08/1942	Stand Up
1943	07/09/1942	31/08/1942	14/10/1942	22/09/1942	15/03/1943	03/08/1943	Squarehead's Master
1944	03/09/1943	21/08/1943	13/10/1943	11/10/1943	31/03/1944	05/08/1944	Red Standard
1945	21/09/1944	20/09/1944	08/11/1944	30/10/1944	21/03/1945	11/08/1945	Red Standard
1946	30/08/1945	22/08/1945	19/10/1945	17/10/1945	16/04/1946	15/08/1946	Squarehead's Master
1947	05/10/1946	19/09/1946	29/10/1946	16/10/1946	19/05/1947	07/08/1947	Squarehead's Master
1948	24/09/1947	22/09/1947	24/10/1947	13/10/1947	27/04/1948	19/08/1948	Squarehead's Master
1949	11/09/1948	02/09/1948	11/11/1948	11/11/1948	27/04/1949	05/08/1949	Squarehead's Master
1950	05/09/1949	24/08/1949	05/11/1949	03/11/1949	20/04/1950	08/08/1950	Squarehead's Master
1951	08/09/1950	24/08/1950	25/10/1950	23/10/1950	11/04/1951	21/08/1951	Squarehead's Master
1952	07/09/1951	07/09/1951	05/11/1951	22/10/1951	21/04/1952	22/08/1952	Squarehead's Master
1953	03/09/1952	03/09/1952	12/11/1952	11/11/1952	23/04/1953	25/08/1953	Squarehead's Master
1954	16/09/1953	16/09/1953	23/10/1953	21/10/1953	22/04/1954	30/08/1954	Squarehead's Master
1955	01/10/1954	01/10/1954	06/12/1954	05/01/1954	16/05/1955	19/08/1955	Squarehead's Master
1956	06/09/1955	07/09/1955	02/11/1955	29/10/1955	09/05/1956	01/09/1956	Squarehead's Master
1957	04/10/1956	28/09/1956	07/11/1956	29/10/1956	29/04/1957	27/08/1957	Squarehead's Master
1958	04/09/1957	03/09/1957	20/11/1957	20/11/1957	30/04/1958	09/09/1958	Squarehead's Master
1959	10/11/1958	20/10/1958	08/12/1958	04/12/1958	27/04/1959	19/08/1959	Squarehead's Master
1960	21/09/1959	21/09/1959	19/10/1959	07/10/1959	04/04/1960	31/08/1960	Squarehead's Master
1961	10/10/1960	04/10/1960	18/01/1961	17/01/1961	17/04/1961	01/09/1961	Squarehead's Master
1962	07/09/1961	07/09/1961	01/11/1961	29/09/1961	17/04/1962	15/09/1962	Squarehead's Master
1963	04/10/1962	27/09/1962	30/11/1962	23/10/1962	24/04/1963	13/09/1963	Squarehead's Master
1964	24/09/1963	25/09/1963	30/11/1963	15/10/1963	13/04/1964	27/08/1964	Squarehead's Master
1965	13/10/1964	09/10/1964	26/10/1964	19/10/1964	26/04/1965	21/09/1965	Squarehead's Master
1966	28/10/1965	29/10/1965	07/01/1966	15/11/1965	02/05/1966	06/09/1966	Squarehead's Master
1967	14/10/1966	12/10/1966	03/11/1966	02/11/1966	19/04/1967	31/08/1967	Squarehead's Master

<sup>a</sup> Inorganic fertilisers (PKNaMg and autumn N) castor meal and FYM are generally applied to the stubble of the previous crop.

The experiment is then ploughed within a day or two of the FYM application unless the weather is poor.

<sup>b</sup> Autumn N application (ammonium). 24kg in autumn, remainder in spring, except plot 15, all in autumn.

<sup>c</sup> Main Spring N application, ammonium (N) or nitrate (N\*). One application, except plot 16 applied as two equal amounts six days to six weeks apart.

**Broadbalk Winter Wheat, dates of ploughing, sowing, harvesting, FYM and N application 1968-2021**

Harvest year	FYM application	Ploughing <sup>a</sup>	Seed-bed preparation and sowing	Main N application <sup>b</sup>	Harvest	Cultivar
1968	18/09/1967	19-20/09/1967	07/12/1967	10/04/1968	26/08/1968	Cappelle Desprez
1969	04/10/1968	01-05/10/1968	17/10/1968	17/04/1969	29/08/1969	Cappelle Desprez
1970	01/10/1969	02-04/10/1969	15/10/1969	30/04/1970	27/08/1970	Cappelle Desprez
1971	22/09/1970	21-23/09/1970	09/10/1970	08/04/1971	27/08/1971	Cappelle Desprez
1972	29/09/1971	30/09/1971	22/10/1971	18/04/1972	01/09/1972	Cappelle Desprez
1973	11/10/1972	10-12/10/1972	17/10/1972	13/04/1973	20/08/1973	Cappelle Desprez
1974	09/10/1973	10/10/1973	18/10/1973	11/04/1974	29/08/1974	Cappelle Desprez
1975	04/11/1974	05/11/1974	07/11/1974	22/04/1975	13/08/1975	Cappelle Desprez
1976	09/10/1975	11/10/1975	16/10/1975	31/03/1976	30/07/1976	Cappelle Desprez
1977	11/10/1976	11-13/10/1976	24/11/1976	18/04/1977	08/09/1977	Cappelle Desprez
1978	04/10/1977	06/10/1977	19/10/1977	08/05/1978	29/08/1978	Cappelle Desprez
1979	04/10/1978	05/10/1978	10/10/1978	03/05/1979	28/08/1979	Flanders
1980	26/09/1979	27/09/1979	04/10/1979	10/04/1980	21/08/1980	Flanders
1981	10/09/1980	11/09/1980	01/10/1980	15/04/1981	19/08/1981	Flanders
1982	25/09/1981	28/09/1981	16/10/1981	15/04/1982	20/08/1982	Flanders
1983	20/09/1982	20/09/1982	04/11/1982	15/04/1983	10/08/1983	Flanders
1984	08/09/1983	09/09/1983	06/10/1983	13/04/1984	14/08/1984	Flanders
1985	01/10/1984	01/10/1984	31/10/1984	18/04/1985	06/09/1985	Brimstone
1986	25/09/1985	26/09/1985	03/10/1985	02/05/1986	02/09/1986	Brimstone
1987	08/10/1986	08/10/1986	10/10/1986	14/04/1987	08/09/1987	Brimstone
1988	28/09/1987	30/09/1987	05/11/1987	08/04/1988	05/09/1988	Brimstone
1989	14/10/1988	14/10/1988	26/10/1988	18/04/1989	07/08/1989	Brimstone
1990	27/09/1989	28/09/1989	11/10/1989	09/04/1990	08/08/1990	Brimstone
1991	09/10/1990	09/10/1990	16/10/1990	09/04/1991	25/08/1991	Apollo
1992	09/10/1991	11/10/1991	15/10/1991	10/04/1992	06/08/1992	Apollo
1993	14/10/1992	15/10/1992	06/11/1992	20/04/1993	17/08/1993	Apollo
1994	26/10/1993	28/10/1993	03/11/1993	18/04/1994	22/08/1994	Apollo
1995	13/10/1994	13/10/1994	16/11/1994	11/04/1995	06/08/1995	Apollo
1996	26/09/1995	29/09/1995	11/10/1995	17/04/1996	16/08/1996	Hereward
1997	27/09/1996	28/09/1996	15/10/1996	11/04/1997	01/09/1997	Hereward
1998	14/10/1997	15/10/1997	15/10/1997	24/03/1998	16/08/1998	Hereward
1999	25/09/1998	12/10/1998	30/10/1998	01/04/1999	04/08/1999	Hereward
2000	24/09/1999	25-27/09/1999	07/10/1999	28/04/2000	12/08/2000	Hereward
2001	04/10/2000	04-5/10/2000	16/01/2001	04/05/2001	23/08/2001	Hereward
2002	12/09/2001	12-13/09/2001	28/09/2001	24/04/2002	14/08/2002	Hereward
2003	02/10/2002	02/10/2002	04/10/2002	15/04/2003	05/08/2003	Hereward
2004	25/09/2003	27/09/2003	30/09/2003	07/05/2004	02/09/2004	Hereward
2005	18/10/2004	18/10/2004	05/11/2004	14/04/2005	10/08/2005	Hereward
2006	28/09/2005	29/09/2005	11/10/2005	20/04/2006	23/08/2006	Hereward
2007	04/10/2006	14/10/2006	01/11/2006	24/04/2007	26-27/08/2007	Hereward
2008	10/10/2007	11/10/2007	15/10/2007	17/04/2008	26/08/2008	Hereward
2009	02/10/2008	06/10/2008	17/10/2008	21/04/2009	14/08/2009	Hereward
2010	17/09/2009	18/09/2009	13/10/2009	20/04/2010	31/08/2010	Hereward
2011	08/10/2010	10/10/2010	19/10/2010	13/04/2011	15/08/2011	Hereward
2012	28/09/2011	01/10/2011	11/10/2011	17/04/2012	20/08/2012	Hereward
2013	03/10/2012	03/10/2012	22/02/2013	24/04/2013	29/08/2013	Crusoe
2014	02/10/2013	03/10/2013	18/10/2013	03/04/2014	20/08/2014	Crusoe
2015	03/10/2014	04/10/2014	09/03/2015	17/04/2015	26/09/2015	Mulika (Spring Wheat) <sup>c</sup>
2016	01/10/2015	02/10/2015	14/10/2015	07/04/2016	10/08/2016	Crusoe
2017	27/09/2016	27/09/2016	11/10/2016	07/04/2017	28/08/2017	Crusoe
2018	22/09/2017	27/09/2017	09/10/2017	19/04/2018	08/08/2018	Crusoe
2019	17/09/2018	18/09/2018	03/10/2018	12/04/2019	26/08/2019	Zyatt
2020	22/09/2019	22/09/2019	25/03/2020	20/05/2020	06/09/2020	Tybalt (Spring Wheat) <sup>c</sup>
2021	22/09/2020	23/09/2020	28/09/2020	20/04/2021	27/08/2021	Zyatt

<sup>a</sup> Inorganic fertilisers (PKNaMg and autumn N) castor meal and FYM are generally applied to the stubble of the previous crop.

The experiment is then ploughed within a day or two of the FYM application unless the weather is poor.

<sup>b</sup> Split N application: from 2001 on plots 12, 17-19 the N was split into three applications: 48 kgN applied in mid-March, the main application in mid April, 48kgN in mid-May. Two splits only to spring wheat, the early application was added to the main dressing.

<sup>c</sup> Spring wheat cultivars sown in 2015 and 2020, as very wet autumn/winter prevented sowing of usual winter cultivar.