

**Table SF7.** Changes in DOC concentration for the period 1906–2012, for the grassland system on sandy soil.

Year	DOC concentration (mg/L)
1906	5.8
1907	5.6
1908	8.1
1909	15.9
1910	10.7
1911	5.2
1912	11.8
1913	4.5
1914	6.8
1915	8.9
1916	14.5
1917	7.6
1918	5.9
1919	9.1
1920	8.6
1921	0.8
1922	7.2
1923	15.4
1924	11.7
1925	9.4
1926	4.2
1927	19.4
1928	9.0
1929	1.9
1930	15.5
1931	11.8
1932	7.9
1933	4.4
1934	6.9
1935	14.6
1936	8.8
1937	7.4
1938	12.9
1939	9.6
1940	8.1
1941	7.3
1942	14.2
1943	7.4
1944	7.7
1945	15.4
1946	7.7
1947	2.5

1948	7.4
1949	8.1
1950	12.7
1951	12.4
1952	7.5
1953	6.1
1954	12.4
1955	2.8
1956	8.4
1957	11.8
1958	14.1
1959	5.1
1960	8.2
1961	12.5
1962	8.9
1963	12.0
1964	7.1
1965	18.0
1966	14.4
1967	8.3
1968	12.1
1969	6.7
1970	8.1
1971	2.8
1972	7.1
1973	12.0
1974	6.9
1975	4.0
1976	3.5
1977	10.4
1978	3.6
1979	7.3
1980	14.6
1981	3.0
1982	4.1
1983	13.0
1984	7.3
1985	9.3
1986	4.1
1987	18.4
1988	13.7
1989	8.4
1990	7.0
1991	7.8
1992	11.8
1993	10.7

1994	10.1
1995	6.9
1996	2.8
1997	13.5
1998	15.0
1999	11.1
2000	5.6
2001	12.9
2002	7.9
2003	3.4
2004	14.0
2005	17.3
2006	8.4
2007	13.8
2008	12.2
2009	4.5
2010	11.5
2011	16.1
2012	11.2

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**Table SF8.** Changes in DOC concentration for the period 1906–2012, for the grassland system on loamy soil.

Year	DOC concentration (mg/L)
1906	2.8
1907	2.5
1908	4.4
1909	7.8
1910	5.3
1911	2.5
1912	5.1
1913	2.1
1914	2.6
1915	4.6
1916	7.3
1917	4.0
1918	2.4
1919	3.9
1920	4.5
1921	0.5
1922	3.3
1923	7.5
1924	5.7
1925	3.9
1926	1.3
1927	10.0
1928	4.8
1929	0.9
1930	7.8
1931	6.2
1932	4.1
1933	2.1
1934	2.1
1935	7.0
1936	3.8
1937	3.2
1938	5.4
1939	3.7
1940	4.1
1941	3.6
1942	7.2
1943	3.4
1944	2.7
1945	7.7
1946	3.7
1947	1.4

1948	3.6
1949	2.6
1950	6.3
1951	6.4
1952	3.5
1953	3.2
1954	6.0
1955	1.2
1956	4.0
1957	5.6
1958	6.9
1959	2.4
1960	3.8
1961	5.9
1962	4.0
1963	6.3
1964	3.2
1965	9.1
1966	7.1
1967	3.8
1968	5.8
1969	3.7
1970	4.2
1971	1.2
1972	3.4
1973	6.1
1974	2.9
1975	2.0
1976	1.0
1977	4.3
1978	1.5
1979	4.0
1980	7.3
1981	1.4
1982	2.1
1983	6.1
1984	3.2
1985	4.3
1986	2.0
1987	9.1
1988	5.8
1989	3.8
1990	2.1
1991	3.3
1992	5.7
1993	5.2

1994	4.3
1995	2.7
1996	1.4
1997	6.4
1998	7.3
1999	4.9
2000	2.3
2001	5.5
2002	3.7
2003	1.2
2004	6.6
2005	8.7
2006	4.0
2007	6.8
2008	5.9
2009	2.1
2010	5.7
2011	8.1
2012	5.5

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**Table SF9.** Changes in DOC concentration for the period 1906–2012, for the arable land system on sandy soil.

Year	DOC concentration (mg/L)
1906	12.5
1907	13.0
1908	16.5
1909	43.7
1910	22.0
1911	12.6
1912	20.8
1913	23.8
1914	18.6
1915	20.1
1916	21.9
1917	32.2
1918	10.9
1919	23.5
1920	17.5
1921	4.9
1922	16.6
1923	32.6
1924	23.8
1925	22.6
1926	10.7
1927	51.5
1928	11.8
1929	6.6
1930	19.2
1931	42.6
1932	15.5
1933	10.9
1934	6.4
1935	44.3
1936	11.1
1937	21.4
1938	9.9
1939	23.3
1940	13.0
1941	28.8
1942	18.2
1943	14.9
1944	10.6
1945	40.5
1946	9.1
1947	24.3

1948	16.8
1949	23.0
1950	13.9
1951	27.1
1952	13.3
1953	24.3
1954	23.8
1955	10.7
1956	19.1
1957	26.5
1958	18.0
1959	9.5
1960	16.7
1961	28.5
1962	14.9
1963	16.7
1964	9.8
1965	54.1
1966	24.1
1967	8.1
1968	17.9
1969	24.6
1970	11.9
1971	5.1
1972	14.0
1973	39.1
1974	9.9
1975	6.6
1976	8.7
1977	16.5
1978	9.1
1979	10.9
1980	19.6
1981	12.7
1982	6.6
1983	16.2
1984	10.8
1985	22.6
1986	7.9
1987	18.0
1988	12.4
1989	32.9
1990	14.8
1991	6.8
1992	17.1
1993	24.8



1994	18.4
1995	5.7
1996	4.8
1997	22.9
1998	21.6
1999	7.8
2000	11.2
2001	24.5
2002	9.5
2003	5.6
2004	12.7
2005	35.3
2006	16.7
2007	15.6
2008	10.4
2009	10.7
2010	16.3
2011	14.0
2012	21.1

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**Table SF10.** Changes in DOC concentration for the period 1906–2012, for the arable land system on loamy soil.

Year	DOC concentration (mg/L)
1906	1.5
1907	3.8
1908	3.5
1909	8.6
1910	4.4
1911	1.7
1912	4.3
1913	7.1
1914	3.8
1915	7.9
1916	6.5
1917	8.8
1918	2.9
1919	7.1
1920	4.9
1921	0.7
1922	3.7
1923	6.4
1924	6.2
1925	5.3
1926	2.7
1927	13.2
1928	4.3
1929	1.7
1930	6.5
1931	14.5
1932	4.9
1933	2.5
1934	1.7
1935	11.4
1936	4.1
1937	6.5
1938	3.7
1939	6.8
1940	5.4
1941	8.9
1942	6.5
1943	5.3
1944	3.7
1945	13.3
1946	3.8
1947	6.0

1948	5.8
1949	7.0
1950	5.6
1951	7.6
1952	3.9
1953	10.5
1954	10.7
1955	4.9
1956	7.8
1957	10.1
1958	7.8
1959	4.5
1960	7.0
1961	11.5
1962	6.5
1963	9.1
1964	4.2
1965	22.0
1966	11.4
1967	3.9
1968	8.2
1969	10.9
1970	5.9
1971	2.5
1972	6.4
1973	16.4
1974	4.6
1975	3.5
1976	2.1
1977	6.4
1978	3.6
1979	6.4
1980	8.8
1981	5.3
1982	3.4
1983	6.5
1984	4.4
1985	9.9
1986	3.8
1987	9.5
1988	4.8
1989	7.6
1990	6.8
1991	3.8
1992	8.1
1993	10.5

1994	8.1
1995	2.8
1996	2.1
1997	8.8
1998	10.7
1999	4.3
2000	4.6
2001	9.8
2002	4.7
2003	2.6
2004	5.9
2005	16.0
2006	8.0
2007	8.6
2008	4.6
2009	4.2
2010	8.5
2011	8.1
2012	10.6

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**Table SF11.** Changes in DOC concentration for the period 1906–2012, for the forest system on sandy soil.

Year	DOC concentration (mg/L)
1906	20.6
1907	18.9
1908	3.5
1909	12.3
1910	4.1
1911	5.6
1912	7.5
1913	3.7
1914	3.2
1915	2.9
1916	5.9
1917	4.8
1918	3.8
1919	3.9
1920	2.7
1921	1.4
1922	5.1
1923	5.4
1924	7.1
1925	6.0
1926	3.2
1927	9.6
1928	2.6
1929	2.5
1930	7.3
1931	2.1
1932	3.9
1933	1.4
1934	3.3
1935	7.3
1936	5.1
1937	2.8
1938	3.2
1939	3.4
1940	1.9
1941	4.1
1942	4.5
1943	2.0
1944	3.1
1945	6.1
1946	4.1
1947	1.5

1948	2.1
1949	1.9
1950	4.0
1951	2.1
1952	3.4
1953	1.2
1954	7.0
1955	2.3
1956	4.5
1957	6.8
1958	4.3
1959	2.6
1960	4.3
1961	3.0
1962	4.0
1963	5.7
1964	1.9
1965	7.4
1966	4.5
1967	3.2
1968	5.0
1969	3.1
1970	2.8
1971	1.9
1972	1.8
1973	3.7
1974	3.9
1975	2.2
1976	1.5
1977	1.9
1978	1.9
1979	2.8
1980	4.3
1981	2.7
1982	2.2
1983	5.4
1984	4.4
1985	1.5
1986	2.9
1987	4.9
1988	4.5
1989	4.1
1990	3.1
1991	2.5
1992	4.5
1993	5.0

1994	4.2
1995	2.1
1996	0.7
1997	2.2
1998	5.6
1999	2.3
2000	3.1
2001	4.3
2002	2.3
2003	1.9
2004	2.3
2005	4.3
2006	4.3
2007	5.7
2008	3.9
2009	2.6
2010	4.8
2011	4.6
2012	2.3

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**Table SF12.** Changes in DOC concentration for the period 1906–2012, for the forest system on loamy soil.

Year	DOC concentration (mg/L)
1906	1.1
1907	1.6
1908	1.1
1909	2.0
1910	1.7
1911	1.5
1912	2.5
1913	1.8
1914	0.8
1915	1.3
1916	1.9
1917	1.2
1918	1.8
1919	1.4
1920	1.5
1921	0.9
1922	1.0
1923	1.5
1924	2.1
1925	1.8
1926	1.0
1927	2.5
1928	1.4
1929	1.1
1930	2.6
1931	1.7
1932	1.5
1933	1.1
1934	1.0
1935	2.4
1936	2.0
1937	1.3
1938	1.7
1939	1.4
1940	1.5
1941	1.6
1942	1.7
1943	1.2
1944	1.5
1945	2.2
1946	1.3
1947	0.4



1948	1.3
1949	0.9
1950	2.0
1951	1.3
1952	1.3
1953	2.1
1954	2.9
1955	1.9
1956	2.1
1957	2.3
1958	2.0
1959	0.9
1960	2.1
1961	1.7
1962	1.6
1963	1.9
1964	1.3
1965	2.4
1966	2.5
1967	1.7
1968	2.6
1969	0.9
1970	1.8
1971	1.3
1972	1.4
1973	1.3
1974	1.6
1975	1.2
1976	0.9
1977	1.4
1978	1.1
1979	0.8
1980	1.6
1981	1.5
1982	1.2
1983	1.3
1984	1.6
1985	1.5
1986	1.4
1987	2.3
1988	2.3
1989	1.1
1990	1.7
1991	1.2
1992	2.2
1993	1.8

1994	1.8
1995	1.1
1996	0.7
1997	1.4
1998	2.3
1999	1.5
2000	1.7
2001	1.8
2002	1.9
2003	1.3
2004	1.7
2005	2.2
2006	2.0
2007	2.0
2008	2.4
2009	0.9
2010	2.1
2011	1.8
2012	1.9

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