

Dendrochronology or tree-ring dating is the scientific method of dating based on the analysis of patterns of tree rings, also known as growth rings.

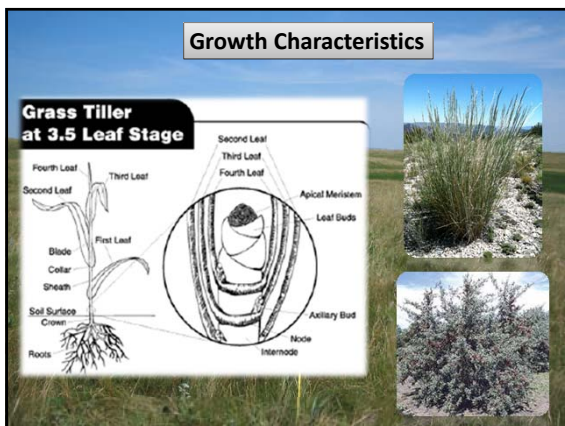
Proceedings of the South Dakota Academy of Science, Vol. 10, 1980

Table 3. Diameter and magnitude estimates of 10 fire and 10 wet years.

Year	Year	Year	Year	Year	Year	Year	Year	Year	Year
1	1881	1882	1883	1884	1885	1886	1887	1888	1889
2	1890	1891	1892	1893	1894	1895	1896	1897	1898
3	1899	1900	1901	1902	1903	1904	1905	1906	1907
4	1908	1909	1910	1911	1912	1913	1914	1915	1916
5	1917	1918	1919	1920	1921	1922	1923	1924	1925
6	1926	1927	1928	1929	1930	1931	1932	1933	1934
7	1935	1936	1937	1938	1939	1940	1941	1942	1943
8	1944	1945	1946	1947	1948	1949	1950	1951	1952
9	1953	1954	1955	1956	1957	1958	1959	1960	1961
10	1962	1963	1964	1965	1966	1967	1968	1969	1970
11	1971	1972	1973	1974	1975	1976	1977	1978	1979
12	1980	1981	1982	1983	1984	1985	1986	1987	1988
13	1989	1990	1991	1992	1993	1994	1995	1996	1997
14	1998	1999	2000	2001	2002	2003	2004	2005	2006
15	2007	2008	2009	2010	2011	2012	2013	2014	2015

References:
Brown, P.M., and C.S. Rigg, 1986. Fire history in western ponderosa pine communities of the Black Hills, South Dakota, USA. Vol. 2. Wetland Fire, 185.

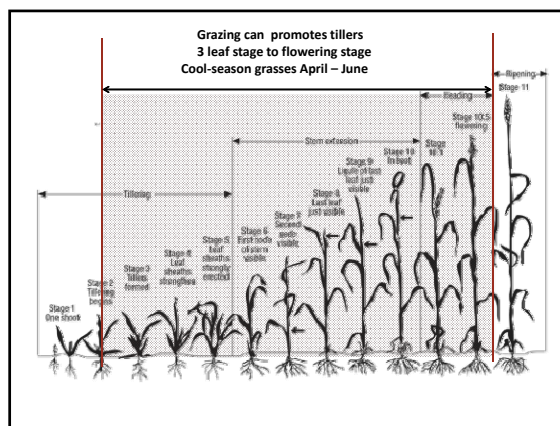




Lead Tiller Dominance

- Lead tillers inhibit tiller development from axillary buds through a process called lead tiller dominance.
- If the lead tiller remains undamaged, around the **flowering stage**, inhibitory hormones production declines and allows a small number of axillary buds to develop a secondary tiller which initiates lead tiller dominance.

Higher Auxin Content



- If the lead tiller is damaged between the three leaf stage and flowering, inhibitory hormone production declines. Vegetative reproduction is stimulated and secondary tillers develop from the previous year's axillary buds.
- The primary form of grass reproduction is vegetative. Very few young grass plants mature from seed in an established grassland.

Higher Cytokinin Content

