

# SOIL DEGREE DAY ACCUMULATION FOR NEMATODE CONTROL

RUSSET NORKOTAH, SLV RESEARCH CENTER - 2015

For root-knot nematode control, Vydate applications should begin at 800 Degree-days ( $DD_{5Celsius}$ ) or 1,440  $DD_{41Fahrenheit}$ . To estimate that date, add the number of "Total DD" on the day you planted to 800 (or 1,440). Where that value occurs in the "Total DD" column estimates the date on which 800  $DD_{5C}$  or 1,440  $DD_{41F}$  will occur in that field.

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This information can also be found on the SLV Research Center Website:

<http://www.colostate.edu/Depts/SLVRC/disease/nematode.htm>

This data was updated

Tuesday, August 04, 2015

Data after that date are estimated using average temperature for the previous 7 days.

The last date when the Degree Days were updated is in bold.

MONTH	DAY	GROWING DAYS	AVE SOIL TEMP - C	DAILY DD5C	TOTAL DD5C	AVE SOIL TEMP F	DAILY DD41F	2015 TOTAL DD41F	Avg.	HISTORICAL TOTAL DD41F	
									2002-2012	2014	2013
1-May	1	1	14.4	9.4	9.4	57.8	16.8	16.8	11.3	14.4	17.3
2-May	2	2	12.4	7.4	16.7	54.2	13.2	30.1	23.0	30.3	31.1
3-May	3	3	12.6	7.6	24.3	54.7	13.7	43.8	35.5	49.9	45.1
4-May	4	4	13.3	8.3	32.6	55.9	14.9	58.7	49.8	70.1	60.7
5-May	5	5	13.3	8.3	41.0	56.0	15.0	73.7	64.9	91.6	76.3
6-May	6	6	12.1	7.1	48.0	53.7	12.7	86.4	79.9	114.2	90.7
7-May	7	7	12.8	7.8	55.8	55.0	14.0	100.4	95.2	135.9	103.3
8-May	8	8	13.3	8.3	64.0	55.9	14.9	115.2	110.9	153.9	116.7
9-May	9	9	12.8	7.8	71.9	55.1	14.1	129.3	127.0	167.4	126.8
10-May	10	10	10.9	5.9	77.8	51.7	10.7	140.0	143.6	179.0	137.6
11-May	11	11	11.7	6.7	84.5	53.1	12.1	152.1	160.9	191.0	151.7
12-May	12	12	12.8	7.8	92.3	55.1	14.1	166.2	178.5	198.6	168.8
13-May	13	13	14.2	9.2	101.5	57.5	16.5	182.7	196.6	203.4	188.8
14-May	14	14	13.7	8.7	110.2	56.6	15.6	198.3	215.3	209.0	208.9
15-May	15	15	13.4	8.4	118.5	56.1	15.1	213.3	234.7	218.6	228.8
16-May	16	16	12.1	7.1	125.6	53.8	12.8	226.1	256.4	231.5	247.8
17-May	17	17	12.4	7.4	133.1	54.4	13.4	239.5	277.6	247.2	268.0
18-May	18	18	13.6	8.6	141.6	56.4	15.4	254.9	299.3	264.1	288.6
19-May	19	19	12.8	7.8	149.4	55.0	14.0	269.0	321.1	283.2	307.3
20-May	20	20	12.9	7.9	157.3	55.2	14.2	283.1	342.8	302.1	321.5
21-May	21	21	13.0	8.0	165.3	55.5	14.5	297.6	364.8	318.3	336.6
22-May	22	22	12.9	7.9	173.2	55.2	14.2	311.8	386.9	335.9	355.6
23-May	23	23	13.3	8.3	181.5	55.9	14.9	326.8	408.8	354.6	376.9
24-May	24	24	12.8	7.8	189.4	55.1	14.1	340.9	431.0	371.6	400.3
25-May	25	25	12.9	7.9	197.2	55.2	14.2	355.0	453.9	387.9	424.4
26-May	26	26	13.5	8.5	205.8	56.4	15.4	370.4	477.4	406.1	449.5
27-May	27	27	14.7	9.7	215.5	58.5	17.5	387.9	501.3	429.3	473.6

MONTH	DAY	GROWING DAYS	AVE SOIL TEMP - C	DAILY DD5C	TOTAL DD5C	AVE SOIL TEMP F	DAILY DD41F	2015 TOTAL DD41F	Avg. 2002-2012	HISTORICAL TOTAL DD41F	
										2014	2013
28-May	28	28	15.1	10.1	225.6	59.2	18.2	406.1	527.1	452.7	496.9
29-May	29	29	15.0	10.0	235.6	59.0	18.0	424.1	552.2	474.2	519.4
30-May	30	30	16.4	11.4	247.1	61.6	20.6	444.7	577.3	493.1	541.4
31-May	31	31	17.4	12.4	259.5	63.4	22.4	467.1	602.8	515.0	564.2
1-Jun	1	32	16.7	11.7	271.2	62.1	21.1	488.2	628.8	539.9	587.3
2-Jun	2	33	17.9	12.9	284.1	64.1	23.1	511.4	654.8	565.8	611.8
3-Jun	3	34	18.6	13.6	297.7	65.5	24.5	535.8	680.4	591.7	636.7
4-Jun	4	35	19.6	14.6	312.2	67.2	26.2	562.0	705.3	618.5	660.4
5-Jun	5	36	19.3	14.3	326.5	66.7	25.7	587.7	730.6	647.0	684.6
6-Jun	6	37	18.8	13.8	340.3	65.9	24.9	612.6	756.8	673.2	709.5
7-Jun	7	38	17.5	12.5	352.8	63.4	22.4	635.0	783.0	694.5	734.5
8-Jun	8	39	18.5	13.5	366.3	65.3	24.3	659.3	808.1	714.1	760.9
9-Jun	9	40	19.5	14.5	380.8	67.2	26.2	685.5	833.4	733.5	790.1
10-Jun	10	41	19.8	14.8	395.6	67.6	26.6	712.0	858.7	756.2	821.4
11-Jun	11	42	19.6	14.6	410.2	67.3	26.3	738.3	883.8	777.8	853.3
12-Jun	12	43	20.2	15.2	425.4	68.4	27.4	765.7	908.3	796.7	884.4
13-Jun	13	44	20.4	15.4	440.7	68.6	27.6	793.3	932.5	816.5	914.9
14-Jun	14	45	18.4	13.4	454.2	65.2	24.2	817.5	956.4	838.7	944.6
15-Jun	15	46	19.3	14.3	468.4	66.7	25.7	843.2	980.9	859.7	971.1
16-Jun	16	47	21.8	16.8	485.2	71.2	30.2	873.3	1005.9	883.1	997.0
17-Jun	17	48	20.3	15.3	500.4	68.5	27.5	900.8	1031.3	906.2	1022.6
18-Jun	18	49	19.4	14.4	514.8	66.9	25.9	926.7	1057.3	929.6	1049.2
19-Jun	19	50	21.3	16.3	531.1	70.3	29.3	955.9	1083.6	953.9	1080.5
20-Jun	20	51	21.8	16.8	547.8	71.2	30.2	986.1	1109.6	978.2	1105.6
21-Jun	21	52	20.0	15.0	562.8	67.9	26.9	1013.0	1134.9	998.7	1126.1
22-Jun	22	53	20.0	15.0	577.7	67.9	26.9	1039.9	1158.9	1019.7	1148.1
23-Jun	23	54	21.0	16.0	593.7	69.8	28.8	1068.7	1183.8	1042.2	1171.3
24-Jun	24	55	19.6	14.6	608.3	67.2	26.2	1094.9	1209.4	1066.7	1196.4
25-Jun	25	56	18.0	13.0	621.3	64.4	23.4	1118.3	1234.7	1089.0	1220.2
26-Jun	26	57	18.3	13.3	634.5	64.9	23.9	1142.2	1259.3	1111.5	1243.7
27-Jun	27	58	21.0	16.0	650.5	69.7	28.7	1170.9	1283.3	1133.1	1272.3
28-Jun	28	59	20.2	15.2	665.7	68.4	27.4	1198.2	1308.5	1158.2	1302.0
29-Jun	29	60	19.2	14.2	679.9	66.6	25.6	1223.8	1333.1	1186.1	1326.3
30-Jun	30	61	19.4	14.4	694.3	66.9	25.9	1249.7	1357.2	1212.2	1348.5
1-Jul	1	62	19.9	14.9	709.2	67.8	26.8	1276.5	1382.0	1235.0	1370.5
2-Jul	2	63	18.5	13.5	722.6	65.2	24.2	1300.7	1407.3	1259.9	1393.7
3-Jul	3	64	17.8	12.8	735.4	64.0	23.0	1323.7	1432.4	1283.1	1416.5
4-Jul	4	65	18.1	13.1	748.5	64.6	23.6	1347.3	1456.9	1305.2	1439.8
5-Jul	5	66	18.2	13.2	761.7	64.8	23.8	1371.0	1480.9	1330.2	1463.2
6-Jul	6	67	17.8	12.8	774.4	64.0	23.0	1394.0	1504.1	1358.9	1485.1
7-Jul	7	68	17.0	12.0	786.4	62.5	21.5	1415.5	1526.7	1387.1	1508.7
8-Jul	8	69	15.7	10.7	797.1	60.3	19.3	1434.7	1550.1	1410.5	1533.2
9-Jul	9	70	15.0	10.0	807.1	59.0	18.0	1452.7	1573.3	1434.5	1557.4
10-Jul	10	71	15.1	10.1	817.1	59.1	18.1	1470.8	1597.0	1459.7	1579.5
11-Jul	11	72	15.7	10.7	827.8	60.3	19.3	1490.1	1620.6	1484.5	1602.5
12-Jul	12	73	16.1	11.1	838.9	61.0	20.0	1510.1	1644.0	1511.0	1625.8
13-Jul	13	74	16.0	11.0	849.9	60.8	19.8	1529.9	1667.8	1540.8	1649.1
14-Jul	14	75	15.7	10.7	860.6	60.2	19.2	1549.0	1691.4	1568.9	1672.5
15-Jul	15	76	14.9	9.9	870.5	58.8	17.8	1566.9	1714.7	1593.4	1695.1
16-Jul	16	77	14.8	9.8	880.2	58.6	17.6	1584.4	1738.3	1615.5	1716.4
17-Jul	17	78	15.0	10.0	890.2	58.9	17.9	1602.3	1761.8	1639.7	1737.8
18-Jul	18	79	14.9	9.9	900.1	58.8	17.8	1620.1	1785.2	1664.3	1759.6



2012	2011	2010	2009	2008	2007	2006	2005	2004
15.4	10.1	9.9	16.0	15.2	17.11	15	10	10
30.9	16.0	19.6	32.4	26.0	33.98	31	18	18
48.7	24.4	31.8	46.5	37.5	50.97	49	26	26
68.6	37.0	47.5	61.6	51.8	67.1	68	37	37
89.1	51.7	65.0	78.1	68.4	81.84	87	48	48
109.6	68.5	83.1	96.3	85.7	93.68	105	60	60
125.8	87.5	102.1	116.4	103.8	107.2	123	72	72
138.6	106.9	122.3	138.0	121.3	122.9	142	84	84
154.6	126.2	144.0	159.8	137.4	140.2	160	98	98
173.5	144.0	165.9	182.1	154.2	159.5	176	115	115
192.0	161.6	185.7	205.2	170.9	180.6	193	131	131
207.2	176.8	205.4	228.7	189.6	202.8	212	146	146
218.9	194.6	224.8	252.6	207.8	224.9	233	162	162
233.6	213.7	244.6	276.9	223.7	246.6	254	179	179
252.5	233.3	263.6	301.2	240.6	268.3	276	197	197
273.3	254.6	285.1	326.1	257.1	289.3	300	224	224
294.8	276.1	309.2	352.1	276.4	309.5	323	244	244
315.9	295.5	332.8	379.4	297.5	331.4	348	263	263
337.5	312.1	353.9	405.5	320.8	355	373	286	286
360.1	326.2	378.0	431.5	345.4	376.8	398	310	310
384.8	341.1	405.1	455.7	370.5	396.2	425	335	335
410.3	356.9	433.0	479.1	392.0	413.7	449	361	361
435.7	373.9	461.6	501.5	409.8	429.3	471	387	387
461.6	391.7	488.8	523.6	426.2	442.6	495	415	415
487.0	411.0	514.4	544.2	445.3	458	522	442	442
513.0	432.3	541.5	563.6	466.9	475.8	550	469	469
536.9	455.3	571.5	584.0	489.8	496.3	577	496	496

2012	2011	2010	2009	2008	2007	2006	2005	2004
559.9	479.4	604.8	607.7	513.4	518.2	619	522	522
585.0	505.2	638.5	633.0	536.6	540	646	548	548
610.8	530.5	671.0	657.6	560.5	562.2	674	571	571
637.7	554.2	703.6	681.6	586.0	584.3	702	595	595
666.2	579.4	736.0	703.7	612.9	607.1	732	619	619
694.9	604.9	768.3	724.8	639.3	630.7	762	644	644
722.0	630.7	802.3	743.6	666.0	654	793	669	669
748.3	657.5	838.4	764.5	692.5	675.5	825	691	691
775.4	685.0	877.0	787.1	717.3	697.6	858	714	714
803.9	713.4	916.9	811.2	739.2	721	892	737	737
833.1	742.2	956.1	835.3	763.8	742.4	925	762	762
863.0	770.5	984.7	859.6	790.2	763.8	950	784	785
892.6	799.3	1011.1	885.7	815.5	786.9	973	803	809
922.7	827.8	1040.3	903.9	840.1	811.5	998	823	833
951.6	857.0	1066.9	920.7	860.6	837.4	1027	844	856
981.3	885.9	1086.9	938.8	879.0	862.2	1059	864	880
1006.4	914.2	1109.2	957.4	900.3	883.1	1088	888	903
1030.0	934.6	1130.5	978.3	925.6	904.7	1114	914	927
1056.2	959.8	1150.5	999.7	953.3	929.5	1140	940	951
1085.1	988.4	1172.4	1021.9	977.5	956.3	1164	968	975
1114.6	1016.9	1198.6	1046.6	999.4	983.9	1187	993	998
1143.3	1044.5	1223.3	1069.7	1025.7	1013	1215	1021	1022
1166.4	1072.7	1246.8	1092.4	1053.5	1037	1247	1052	1045
1194.1	1097.3	1274.1	1115.0	1079.2	1066	1276	1084	1069
1222.1	1119.3	1300.7	1137.1	1104.7	1096	1303	1114	1093
1246.8	1146.2	1321.6	1160.0	1128.4	1120	1331	1139	1116
1275.2	1177.2	1345.6	1182.0	1149.7	1148	1357	1165	1140
1306.8	1203.5	1370.9	1209.0	1170.1	1179	1384	1191	1164
1339.2	1227.1	1393.3	1235.2	1190.4	1210	1412	1214	1187
1370.7	1252.6	1416.4	1257.8	1210.1	1240	1436	1236	1211
1397.3	1279.3	1440.8	1279.3	1231.8	1265	1455	1262	1235
1422.2	1308.6	1466.0	1301.6	1255.2	1292	1477	1287	1258
1446.2	1334.2	1489.3	1327.1	1279.6	1320	1501	1309	1282
1470.0	1358.9	1512.6	1356.1	1300.7	1345	1525	1335	1306
1495.7	1382.1	1535.8	1384.1	1321.7	1373	1552	1361	1329
1523.6	1405.4	1560.3	1406.8	1345.2	1404	1579	1385	1353
1547.2	1431.5	1583.9	1429.7	1367.6	1435	1604	1411	1377
1570.7	1461.4	1607.6	1452.5	1390.1	1462	1628	1438	1400
1594.8	1483.0	1633.2	1476.0	1415.2	1487	1652	1464	1424
1618.0	1501.1	1659.3	1497.1	1440.3	1513	1676	1487	1448
1640.7	1518.9	1681.0	1518.3	1463.0	1537	1698	1512	1471
1662.3	1548.6	1700.5	1540.4	1484.7	1561	1719	1536	1495
1684.7	1575.7	1721.0	1563.3	1505.3	1586	1739	1562	1519
1706.5	1603.8	1742.9	1587.2	1528.1	1609	1760	1590	1542
1728.0	1629.7	1763.7	1612.2	1551.3	1632	1780	1619	1566
1749.5	1653.3	1785.1	1639.4	1573.9	1654	1801	1646	1590
1772.3	1677.4	1806.1	1665.7	1598.3	1676	1823	1672	1613
1794.9	1702.5	1828.2	1689.7	1623.9	1699	1846	1698	1637
1816.3	1726.4	1851.0	1712.5	1647.5	1722	1869	1722	1660
1837.7	1749.5	1874.5	1734.4	1671.3	1746	1895	1747	1684
1858.6	1774.8	1898.1	1757.3	1694.5	1770	1921	1773	1708
1878.9	1801.8	1920.2	1780.7	1716.5	1793	1945	1799	1731

2012	2011	2010	2009	2008	2007	2006	2005	2004
1900.0	1827.5	1942.3	1803.6	1738.3	1815	1969	1824	1755
1922.7	1851.9	1964.8	1827.3	1762.2	1838	1994	1850	1779
1946.6	1875.5	1987.8	1849.1	1788.0	1861	2018	1875	1802
1972.1	1899.5	2010.1	1869.9	1812.6	1885	2042	1900	1826
1998.4	1923.9	2032.2	1892.2	1836.0	1910	2064	1926	1850
2021.9	1949.5	2053.5	1914.9	1857.1	1936	2087	1950	1873
2044.5	1976.4	2075.5	1937.9	1877.6	1960	2109	1972	1897
2067.3	2001.5	2097.1	1959.5	1898.5	1984	2132	1994	1921
2088.5	2025.2	2119.2	1980.8	1919.9	2006	2153	2016	1944
2109.4	2048.6	2140.5	2001.9	1941.5	2029	2174	2037	1968
2131.8	2063.9	2162.4	2021.1	1963.0	2051	2195	2058	1992
2155.1	2079.0	2184.0	2039.6	1984.2	2074	2217	2080	2015
2178.9	2094.0	2206.4	2056.9	2006.3	2097	2240	2102	2039
2200.9	2109.7	2229.2	2073.9	2029.4	2120	2262	2124	2063
2221.8	2133.2	2252.3	2092.1	2051.0	2144	2284	2146	2086
2241.2	2156.0	2275.5	2110.6	2073.4	2168	2304	2169	2110
2261.0	2177.5	2298.3	2129.9	2095.8	2191	2325	2191	2134
2282.5	2197.8	2321.2	2149.5	2118.1	2215	2346	2212	2157
2305.2	2218.3	2344.2	2169.7	2140.5	2240	2368	2232	2181
2327.3	2240.0	2365.8	2189.4	2163.9	2263	2388	2253	2205
2349.0		2386.4	2207.4	2186.6	2285	2409	2275	2228
2372.0		2405.6	2225.0	2209.7	2308	2431	2295	2252
2394.4		2425.2	2243.9	2231.8	2332	2454	2316	2275
2413.9		2445.2	2263.0	2253.7	2354	2477	2338	2299
2433.8		2465.2	2283.2	2276.1	2377	2499	2358	2323
2453.5		2484.8	2302.8	2296.9	2400	2521	2378	2346
2473.1		2503.9	2321.8	2316.6	2423	2544	2398	2370
2492.8		2522.6	2340.2	2335.7	2446	2566	2417	2394
2514.1		2541.5	2358.4	2352.8	2470	2588	2437	2417
2535.8		2560.2	2377.2	2369.3	2495	2611	2456	2441
2556.3		2578.2	2394.1	2387.0	2518	2634	2475	2465
2577.3		2597.5	2412.5	2408.1	2541	2656	2494	2488
2597.2		2617.7	2434.3	2431.5	2566	2678	2513	2512
2616.8		2636.6	2456.4	2454.3	2592	2701	2533	2536
2638.8		2656.0	2480.4	2476.2	2617	2725	2554	2559
2660.8		2676.9	2504.8	2499.9	2642	2748	2573	2583
2681.0		2696.5	2525.0	2524.6	2667	2773	2591	2607
2702.1		2716.3	2543.9	2547.3	2690	2796	2611	2630
2724.2		2735.7	2564.5	2567.4	2714	2818	2631	2654
2747.3		2755.9	2586.2	2590.2	2739	2839	2648	2678
2770.6		2775.2	2608.2	2610.5	2763	2861	2667	2701
2796.1		2794.6	2631.2		2787	2882	2688	2725
2824.1		2814.0	2653.8		2811	2905	2710	2749
2850.8		2833.3	2675.0		2837	2930	2730	2772
2873.3		2851.5	2694.4		2862	2955	2750	2796
2896.9			2714.2		2887	2979	2769	2819
2923.1			2736.8		2914	3004	2787	2843
2944.3			2758.3		2905	3029	2805	2867
2965.5			2779.4		2896	3053	2824	2890







