

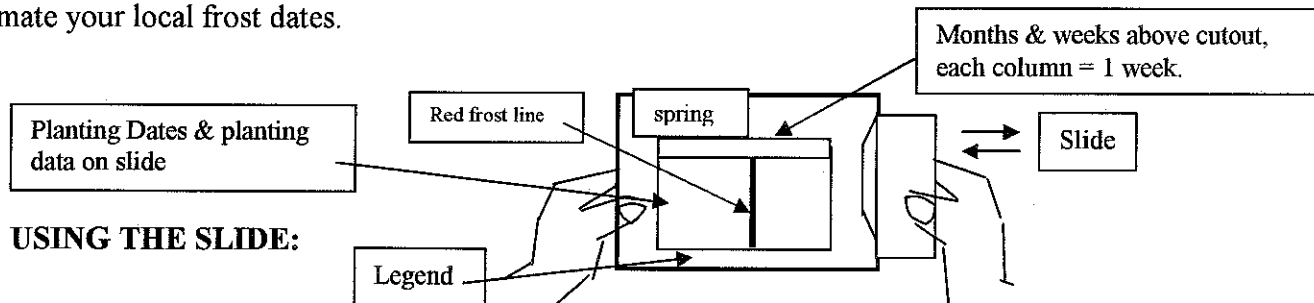
**FROST DATES ON
BACK !!!**

INSTRUCTIONS

**See DEMO on our
Web Site !!!**

TIME PHASE YOUR GARDENING EFFORTS!!! This Garden Planner is a handy, easy-to-use, planning tool for the home and hobby gardener. The chart shows proper **indoor** and **outdoor** planting times relative to average **spring** and **fall** killing frost dates for (22) common garden vegetables, and **provides basic planting data**. The frost date adjusts, making Clyde's planner useful in most parts of the country, where frost is a critical gardening factor. The "Time Phased" format allows the gardener to visualize the sequence of events for planting and harvest activities. Seeding info provided on the slide makes the chart a great shopping aid, and useful planting guide at the garden site.

A. FIND THE AVERAGE FROST DATES FOR YOUR AREA: The table on the back of this page provides frost dates in many cities throughout the continental United States and Canada, and can be used to estimate your local frost dates.



B. USING THE SLIDE:

1. **Spring Planting:** Hold chart as shown in sketch above. Upper left corner should say **SPRING**.
2. Position the **red frost line** to align with the week of your local average last spring killing frost date, (from back of this page). Weeks are printed just above chart window, **each column equals (1) week**.
3. The first **outdoor planting week** for each vegetable is designated (FP) on the slide. Read date above cutout. This is the earliest opportunity to plant each type of vegetable outside with minimum risk of frost damage. Plant each vegetable in, or after, the designated week. Indoor seeding dates, (**si = seeds indoors**), are also marked on the slide.
4. Projected harvest dates are designated by the **green check marks** for each vegetable.
5. **Seeding Info:** Pull the slide full right to read planting data for each vegetable in red lettering:

- Seed or plants required for a 10 foot row, (in ounces). Wide rows encouraged.
- Planting depth, (in inches).
- Distance between rows, (in inches).
- Distance between plants after thinning, (in inches).
(H = Plant seeds in 2 foot diameter hills, 6 inches high.)
(RR = Plant seeds in raised rows 12 inches wide and 6 inches high.)

Notes: Raised hills and raised rows increase seed germination rates. This is because the soil warms and drains better. North/South rows get best sunlight due to the arc of the sun.

6. Read legend at the lower left of chart for further assistance.
7. Notice that those items which are commonly planted outdoors from green house starts are marked with an (*) asterisk. All other dates are for planting seeds or onion sets.
8. **Fall Planting:** Flip chart over to show **FALL** in upper left corner. Position **red frost line** to the week of your local average first fall killing frost from back of this page.
9. The last outdoor planting week, (**LP**), for each vegetable is found above the cutout to plan your fall garden. This is the last opportunity to plant with a reasonable likelihood of a good crop before fall frost arrives. Plant in, or prior to, the designated week, **each column equals (1) week**. Again, indoor seeding dates, (**si**), are provided for the gardener who wants to start seedlings indoors.
10. As on the spring side, **green check marks** designate the expected harvest weeks, and planting data are provided on the left portion of the slide in red lettering.
Note: **Protect from Heat** = (Plants need ample water, and possibly shade during the heat of August).

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web site = <http://cdmplanning.hypermart.net>, e-mail = cmajerus@webound.com

1/2008/Clyde M.

We at CDM have realized that we are sinners, that the loving Lord Jesus' death on the cross paid the **full** penalty for our sin, and that we are saved by **grace through faith** in Jesus, and not by trying to do good works in order to earn our way to heaven.

SELECTED NATIONAL AVERAGE FROST DATES BY STATE AND CITY

General data only - see your local state university extension office for exact frost dates in your area.

CANADIAN DATES

| ST CITY | AVG. LAST SPRING | AVG. FIRST FALL | ST CITY | AVG. LAST SPRING | AVG. FIRST FALL | ST CITY | AVG. LAST SPRING | AVG. FIRST FALL | ST CITY | AVG. LAST SPRING | AVG. FIRST FALL |
|------------------|------------------|-----------------|------------------|------------------|-----------------|----------------|------------------|-----------------|------------------|------------------|-----------------|
| AL Birmingham | 30-Mar | 10-Nov | MA New Bedford | 20-Apr | 30-Oct | OH Cleveland | 30-Apr | 30-Oct | AB Athabasca | 1-Jun | 29-Aug |
| Huntsville | 30-Mar | 30-Oct | Pittsfield | 10-May | 20-Sep | Columbus | 30-Apr | 10-Oct | Calgary | 23-May | 15-Sep |
| Mobile | 28-Feb | 25-Nov | Springfield | 10-May | 20-Sep | Toledo | 30-Apr | 20-Oct | Edmonton | 7-May | 23-Sep |
| Montgomery | 20-Mar | 10-Nov | Worcester | 30-Apr | 15-Oct | Wheeling | 10-May | 10-Oct | Grande Prairie | 18-May | 13-Sep |
| AR Fayetteville | 20-Apr | 20-Oct | MD Baltimore | 25-Mar | 15-Nov | OK Boise City | 30-Apr | 15-Oct | Lethbridge | 17-May | 18-Sep |
| Fort Smith | 30-Mar | 30-Oct | Cumberland | 30-Apr | 10-Oct | Lawton | 1-Apr | 5-Nov | Medicine Hat | 16-May | 22-Sep |
| Little Rock | 30-Mar | 10-Nov | ME Bangor | 10-May | 10-Oct | Oklahoma City | 20-Apr | 30-Oct | Peace River | 28-May | 3-Sep |
| Pine Bluff | 20-Mar | 10-Nov | Bar Harbor | 5-May | 20-Sep | Tulea | 1-Apr | 5-Nov | Red Deer | 25-May | 9-Sep |
| AZ Flagstaff | 15-Jun | 20-Sep | Portland | 10-May | 30-Sep | OR Ashland | 15-May | 10-Oct | Abbotsford | 24-Apr | 18-Oct |
| Phoenix | 20-Feb | 15-Dec | MI Ann Arbor | 30-Apr | 20-Oct | Eugene | 30-Apr | 5-Nov | Chilliwack | 6-Apr | 9-Nov |
| Tucson | 28-Feb | 30-Nov | Detroit | 30-Apr | 20-Oct | Pendleton | 15-Apr | 20-Oct | BC Dawson Creek | 5-Jun | 29-Aug |
| CA Eureka | 30-Jan | 15-Dec | Grand Rapids | 10-May | 10-Oct | Portland | 5-Apr | 5-Nov | Kamloops | 1-Jun | 5-Oct |
| Fresno | 30-Mar | 30-Oct | Grayling | 5-Jun | 10-Sep | Salem | 5-May | 20-Oct | Kelowna | 19-May | 20-Sep |
| Palo Alto | 20-Feb | 5-Dec | Lansing | 15-May | 30-Sep | PA Allentown | 30-Apr | 20-Oct | Nanaimo | 28-Apr | 17-Oct |
| Sacramento | 15-Feb | 1-Dec | Marquette | 10-May | 20-Oct | Carlisle | 20-Apr | 20-Oct | Nelson | 4-May | 13-Oct |
| CO Colorado Spr. | 5-Jun | 30-Sep | Saginaw | 10-May | 25-Sep | Erie | 30-Apr | 20-Oct | Port Albarni | 8-May | 15-Oct |
| Denver | 5-May | 10-Oct | MN Duluth | 20-May | 20-Sep | Indiana | 15-May | 5-Oct | Prince George | 4-Jun | 3-Sep |
| Durango | 5-Jun | 20-Sep | Minneapolis | 15-May | 30-Sep | Philadelphia | 20-Apr | 20-Oct | Prince Rupert | 9-May | 13-Oct |
| Telluride | 30-Jun | 30-Aug | Moose Lake | 30-May | 15-Sep | Pittsburgh | 25-Apr | 25-Oct | Vancouver | 28-Mar | 5-Nov |
| CT Bridgeport | 20-Apr | 20-Oct | Willmar | 5-May | 5-Oct | Scranton | 20-Apr | 30-Sep | Victoria | 19-Apr | 5-Nov |
| Hartford | 25-Apr | 10-Oct | MO Columbia | 20-Apr | 20-Oct | Williamsport | 30-Apr | 15-Oct | MB Brandon | 27-May | 10-Sep |
| Norwalk | 25-Apr | 15-Oct | Hannibal | 15-Apr | 20-Oct | York | 30-Apr | 15-Oct | Lynn Lake | 8-Jun | 6-Sep |
| DC Washington DC | 10-Apr | 30-Oct | Jefferson City | 25-Apr | 15-Oct | RI Kingston | 10-May | 30-Sep | The Pas | 27-May | 17-Sep |
| DE Wilmington | 15-Apr | 30-Oct | Kansas City | 15-Apr | 20-Oct | Providence | 15-Apr | 30-Oct | Thompson | 15-Jun | 16-Aug |
| FL Ocala | 20-Feb | 10-Dec | Springfield | 15-Apr | 25-Oct | SC Charleston | 10-Mar | 20-Nov | Winnipeg | 25-May | 22-Sep |
| Tallahassee | 10-Mar | 15-Nov | St Joseph | 20-Apr | 20-Oct | Columbia | 5-Apr | 5-Nov | NB Bathurst | 19-May | 28-Sep |
| Tampa | 30-Jan | 5-Jan | St. Louis | 15-Apr | 20-Oct | Greenville | 30-Mar | 30-Oct | Edmundston | 28-May | 18-Sep |
| GA Albany | 10-Mar | 15-Nov | MS Columbus | 30-Mar | 30-Oct | SD Hot Springs | 20-May | 20-Sep | Fredericton | 20-May | 22-Sep |
| Athens | 30-Mar | 10-Nov | Jackson | 20-Mar | 10-Nov | TX Rapid City | 5-May | 30-Sep | Moncton | 24-May | 27-Sep |
| Atlanta | 30-Mar | 5-Nov | Natchez | 10-Mar | 15-Nov | Sioux Falls | 10-May | 25-Sep | Saint John | 18-May | 4-Oct |
| Columbus | 20-Mar | 10-Nov | Vicksburg | 15-Mar | 15-Nov | TN Chattanooga | 25-Mar | 30-Oct | Corner Brook | 22-May | 12-Oct |
| Savannah | 10-Mar | 15-Nov | Billings | 20-May | 20-Sep | Knoxville | 10-Apr | 20-Oct | Gander | 3-Jun | 5-Oct |
| IA Atlantic | 10-May | 30-Sep | Bozeman | 30-May | 15-Sep | Memphis | 25-Mar | 5-Nov | Grand Falls | 2-Jun | 26-Sep |
| Cedar Rapids | 30-Apr | 10-Oct | Butte | 30-May | 30-Aug | Nashville | 5-Apr | 30-Oct | St. John's | 2-Jun | 12-Oct |
| Council Bluffs | 30-Apr | 15-Oct | Fort Peck | 5-May | 30-Sep | TX Amarillo | 15-Apr | 30-Oct | NS Halifax | 6-May | 20-Oct |
| Davenport | 25-Apr | 15-Oct | Great Falls | 30-Jun | 30-Jul | Dallas | 20-Mar | 15-Nov | Kentville | 16-May | 5-Oct |
| Des Moines | 5-May | 5-Oct | Helena | 20-May | 20-Sep | Denton | 25-Mar | 10-Nov | Sydney | 24-May | 13-Oct |
| ID Boise | 10-May | 10-Oct | NC Asheville | 30-Apr | 10-Oct | El Paso | 30-Mar | 5-Nov | Truro | 30-May | 21-Sep |
| Pocatello | 30-May | 30-Aug | Fayetteville | 1-Apr | 1-Nov | Lubbock | 15-Apr | 30-Oct | Yarmouth | 1-May | 18-Oct |
| IL Champaign | 5-May | 25-Oct | Raleigh | 10-Apr | 10-Nov | San Antonio | 5-Mar | 25-Nov | NT Aklavik | 13-Jun | 31-Aug |
| Chicago | 20-Apr | 25-Oct | ND Bismarck | 15-May | 20-Sep | UT Cedar City | 20-May | 5-Oct | Fort Simpson | 3-Jun | 24-Aug |
| Marion | 10-Apr | 20-Oct | Fargo | 20-May | 20-Sep | Logan | 5-May | 10-Oct | Yellowknife | 27-May | 15-Sep |
| Moline | 25-Apr | 15-Oct | NE Blair | 30-Apr | 10-Oct | Salt Lake City | 30-May | 30-Sep | ON Barrie | 26-May | 16-Sep |
| Peoria | 30-Apr | 10-Oct | North Platte | 10-May | 25-Sep | Spanish Fork | 10-May | 10-Oct | Hamilton | 29-Apr | 15-Oct |
| Springfield | 15-Apr | 20-Oct | Omaha | 30-Apr | 15-Oct | VA Hampton | 20-Mar | 10-Nov | Kapuskaing | 12-Jun | 8-Sep |
| IN Evansville | 30-Mar | 25-Oct | NH Berlin | 10-Jun | 10-Sep | Norfolk | 25-Mar | 20-Nov | Kingston | 2-May | 10-Oct |
| Fort Wayne | 5-May | 10-Oct | Concord | 25-May | 20-Sep | Richmond | 10-Apr | 25-Oct | Kitchener | 11-May | 29-Sep |
| Gary | 20-Apr | 20-Oct | NJ Atlantic City | 10-Apr | 30-Oct | VT Burlington | 10-May | 30-Sep | London | 9-May | 8-Oct |
| Indianapolis | 20-Apr | 20-Oct | Newark | 5-Apr | 10-Nov | Woodstock | 30-May | 20-Sep | Ottawa | 6-May | 5-Oct |
| Lafayette | 30-Apr | 15-Oct | Somerville | 1-May | 10-Oct | WA Seattle | 25-Mar | 10-Nov | Owen Sound | 12-May | 15-Oct |
| South Bend | 1-May | 20-Oct | Trenton | 30-Apr | 20-Oct | Spokane | 5-May | 5-Oct | Peterborough | 18-May | 20-Sep |
| Terre Haute | 20-Apr | 20-Oct | NM Albuquerque | 30-May | 30-Sep | Tacoma | 30-Mar | 30-Oct | Sudbury | 17-May | 25-Sep |
| KS Manhattan | 25-Apr | 20-Oct | Carlsbad | 30-Mar | 5-Nov | WI Superior | 20-May | 30-Sep | Thunder Bay | 1-Jun | 15-Sep |
| Topeka | 20-Apr | 15-Oct | Los Alamos | 10-May | 15-Oct | Green Bay | 10-May | 30-Sep | Timmins | 8-Jun | 6-Sep |
| Wichita | 10-Apr | 25-Oct | NV Las Vegas | 5-Mar | 20-Nov | Janesville | 30-Apr | 10-Oct | Toronto | 9-May | 6-Oct |
| KY Ashland | 20-Apr | 20-Oct | Reno | 10-Jun | 30-Jul | Madison | 25-Apr | 15-Oct | Windsor | 25-Apr | 22-Oct |
| Bowling Green | 10-Apr | 20-Oct | NY Albany | 5-May | 30-Sep | Milwaukee | 30-Apr | 20-Oct | PE Charlottetown | 17-May | 14-Oct |
| Lexington | 15-Apr | 25-Oct | Binghamtown | 5-May | 25-Sep | Wausau | 20-May | 20-Sep | Summerside | 9-May | 19-Oct |
| Louisville | 20-Apr | 20-Oct | Buffalo | 30-Apr | 30-Oct | WV Charleston | 30-Apr | 15-Oct | Tignish | 23-May | 9-Oct |
| Owensboro | 30-Mar | 30-Oct | Rhaca | 15-May | 30-Sep | Parkersburg | 25-Apr | 20-Oct | QC Baie Comeau | 28-May | 15-Sep |
| LA Monroe | 10-Mar | 5-Nov | Rochester | 30-Apr | 20-Oct | Wheeling | 15-May | 5-Oct | Chicoutimi | 17-May | 30-Sep |
| New Orleans | 20-Feb | 5-Dec | Syracuse | 30-Apr | 15-Oct | WY Casper | 25-May | 20-Sep | Montreal | 3-May | 7-Oct |
| Shreveport | 20-Mar | 20-Nov | Troy | 10-May | 10-Oct | Cheyenne | 20-May | 20-Sep | Quebec | 13-May | 29-Sep |
| MA Amherst | 10-May | 30-Sep | OH Akron | 5-May | 20-Oct | Cody | 20-May | 20-Sep | Rimouski | 13-May | 30-Sep |
| Boston | 20-Apr | 20-Oct | Cincinnati | 15-Apr | 30-Oct | Laramie | 10-Jun | 10-Sep | Sherbrooke | 1-Jun | 10-Sep |
| | | | | | | | | | Tadoussac | 13-May | 2-Oct |
| | | | | | | | | | Thatford Mines | 28-May | 14-Sep |
| | | | | | | | | | Trois-Rivieres | 19-May | 23-Sep |
| | | | | | | | | | SK Moose Jaw | 20-May | 18-Sep |
| | | | | | | | | | North Battleford | 19-May | 17-Sep |
| | | | | | | | | | Prince Albert | 2-Jun | 4-Sep |
| | | | | | | | | | Regina | 21-May | 10-Sep |
| | | | | | | | | | Saskatoon | 21-May | 15-Sep |
| | | | | | | | | | Weyburn | 22-May | 12-Sep |
| | | | | | | | | | Yorkton | 23-May | 11-Sep |
| | | | | | | | | | YT Dawson | 13-Jun | 17-Aug |
| | | | | | | | | | Watson Lake | 2-Jun | 4-Sep |

- Frost dates vary somewhat within each region depending upon the local terrain, and presence of a water body.

- Frost dates prior to Feb. 8th, and later than Dec. 13th, are outside the range of this slide 1-8-08/CM

- Special frost precautions required in regions with less than 100 days between average first and last frost dates.