

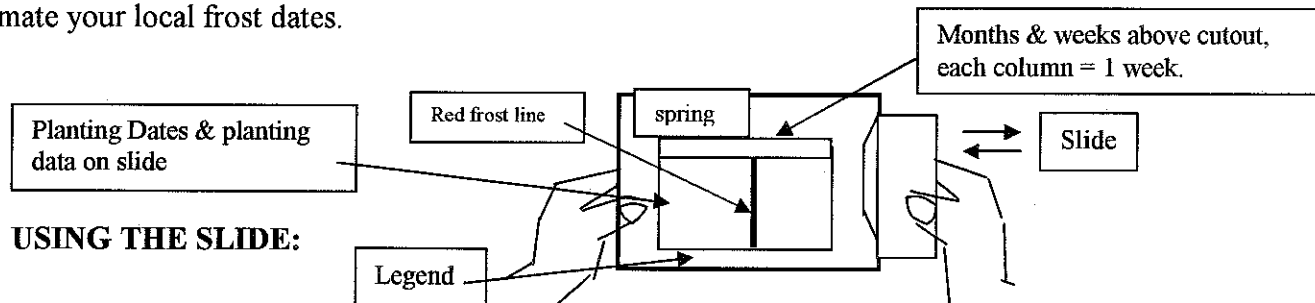
**FROST DATES ON
BACK !!!**

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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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 Albemni	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	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.