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Major plant families and some notes on crop rotation:

- **Onion Family** (Amaryllis Family, Amaryllidaceae): Garlic, onions, leeks, shallots. These are light feeders. Plant these after heavy feeders or after soil enrichers such as beans.
- **Cabbage Family** (Brassica, Cruciferae): Broccoli, Brussels sprouts, cabbage, cauliflower, Chinese cabbage, collards, cress, kale, kohlrabi, radishes, turnips. These are heavy feeders. These crops should follow legumes. After these crops allow the garden to go fallow for a season or plant a cover crop or add plenty of compost and organic matter to the garden.
- **Lettuce Family** (Composite, Daisy Family, Asteraceae): Artichokes, chicory, endive, lettuce. These are heavy feeders. Follow these crops with legumes.
- **Beet Family** (Goosefoot Family, Chenopodiaceae): Beets, spinach, Swiss chard. These are heavy feeders. Follow these crops with legumes.
- **Grass Family** (Graminae): Grains—corn, oats, rye, wheat. Follow these crops with members of the tomato or Solanaceae family.
- **Bean Family** (Legume, Leguminosae): Beans and peas, clover, vetch. These crops enrich the soil, soil builders. Plant these crops before or after any other crop family.
- **Tomato Family** (Nightshade Family, Solanaceae): Eggplant, peppers, tomatoes, potatoes. These crops are heavy feeders. Plant these crops after members of the grass family. Follow these crops with legumes.
- **Squash Family** (Cucurbitaceae): Cucumbers, melons, summer and winter squash, pumpkins, watermelon. These crops are heavy feeders. Plant these crops after members of the grass family. Follow these crops with legumes.
- **Carrot Family** (Umbellifer Family, Umbelliferae): Carrots, celery, anise, coriander, dill, fennel, parsley. These are light to medium feeders. These crops can follow any other group. Follow these crops with legumes, onions, or let the garden sit fallow for a season.

You can use the notes above to accomplish crop rotation or you can simplify the rotation as follows:

Simple Four-Year Crop Rotation Plan:

To follow a simple four-year crop rotation, divide your garden into four areas or plots: Plot One, Plot Two, Plot Three, and Plot Four. In each of the next four years, grow a different crop or different members of the four crop families in a different plot following this rotation:

- Plot One: Tomato family (year 1); Others—see list below (year 2); Bean family (year 3—but avoid planting beans where onion family crops have just grown); Cabbage family (year 4).
- Plot Two: Cabbage family (year 1); Tomato family (year 2); Others—see list below (year 3); Bean family (year 4—but avoid planting beans where onion family crops have just grown).
- Plot Three: Bean family (year 1—but avoid planting beans where onion family crops have just grown); Cabbage family (year 2); Tomato family (year 3); Others—see list below (year 4).

- Plot Four: Others—see list below (year 1); Bean family (year 2—but avoid planting beans where onion family crops have just grown); Cabbage family (year 3); Tomato family (year 4).

This four-year crop rotation intersperses members of the other vegetable families among members of the Tomato, Bean, and Cabbage families, and Others. Here is how they are grouped:

1. Tomato Family and others (Solanaceae family)

Tomatoes	Beets	Salsify
Peppers	Carrots	Scorzonera
Eggplant	Celeriac and celery	
Potatoes	Parsnips	

2. Bean Family (Leguminosae family)

Peas
Broad (fava) beans
French (green) beans
Runner beans

3. Cabbage Family and others (Brassica family)

Broccoli	Cauliflowers
Brussels sprouts	Radishes
Cabbages	Rutabagas (Swedes)
Calabrese (Italian sprouting broccoli)	Turnips

4. Others

Sweet corn
Squashes, zucchini, and pumpkins (marrow and courgettes)

Lettuces

Garlic—avoid planting beans in the same location after garlic
Leeks—avoid planting beans in the same location after leeks
Onions—avoid planting beans in the same location after onions
Shallots—avoid planting beans in the same location after shallots

Recommended Vegetable Cultivars (North Texas)

Planting dates apply to the Dallas/Ft. Worth area and refer to the planting of seed unless otherwise indicated. South of the Metroplex (i.e. in the Corsicana area), you can plant 5 days earlier in the spring. North of the Metroplex (i.e. in the Wichita Falls area and along the Red River), spring planting should be 5 days later than the dates shown.

Listed cultivars were selected for their productivity, resistance to common diseases and adaptability to north central Texas conditions. Proper watering, fertilization, weed control, etc., are necessary, however, if the desired results are to be achieved. Cultivars are listed at random, not in order of preference.

Asparagus (*Asparagus officinalis*)

Jersey Giant, UC 157

Planting dates: (spring only) crowns, February 15 - March 1

Beans, Snap Bush (*Phaseolus vulgaris* var. *humilis*)

Blue Lake 274, Top Crop, Tendercrop, Contender, Tendergreen, Derby

Planting dates:

spring: March 20 - May 1

fall: August 1 - September 1

Beans, Yellow Bush (*Phaseolus vulgaris* var. *humilis*)

Goldcrop, Improved Golden Wax

Planting dates:

spring: March 20 - May 1

fall: August 1 - September 1

Beans, Pinto (*Phaseolus vulgaris*)

Improved Pinto

Planting dates:

spring: March 20 - May 1

fall: August 1 - September 1

Beans, Snap Pole (*Phaseolus vulgaris*)

Blue Lake, Kentucky Wonder

Planting dates:

spring: March 20 - April 20

fall: August 1 - August 15

Beans, Lima Bush (*Phaseolus limensis* var. *limenanus*)

Henderson Baby Bush, Jackson Wonder

Planting dates: (spring only) March 20 - April 20

Beans, Lima Pole (*Phaseolus limensis*)

Florida Speckled, King of the Garden

Planting dates: spring only, March 20 - April 20

Beets (*Beta vulgaris*)

Pacemaker III

Planting dates:

spring: February 10 - March 1

fall: September 1 - September 15

Broccoli (*Brassica oleracea* var. *botrytis*)

spring only: Premium Crop, Emperor

spring or fall: Green Comet, Galaxy, Packman, Baccus, Early Dawn

Planting dates:

spring: transplants, February 15 - March 1

fall:

seed: August 1 - August 15

transplants: August 20 - September 15

Brussels Sprouts (*Brassica oleracea* var. *gemmifera*)

Prince Marvel, Royal Marvel

Planting dates:(fall only)

seed: August 1 - August 15

transplants: August 20 - September 15

Cabbage (*Brassica oleracea* var. *capitata*)

spring only: Early Jersey Wakefield

spring or fall: Sanibel, Rapid Ball, Savoy Ace (wrinkled leaves), Ruby Ball (red color)

Planting dates:

spring: transplants, February 15 - March 1

fall:

seed: August 1 - August 15

transplants: August 20 - September 15

Cabbage, Chinese (*Brassica pekinensis*)

Jade Pagoda, Michihili, China Flash (napa type), China Pride (napa type)

Planting dates:

spring: February 15 - March 1

fall: August 10 - September 1

Cantaloupe (*Cucumis melo* var. *cantalupensis*)

hybrids: Magnum 45, Ambrosia, Mission, Explorer, Caravelle, Minnesota Midget (bush type, good in containers)

non-hybrids: Uvalde, Perlita

Planting dates:

spring: April 5 - May 1

fall: June 15 - July 1

Carrot (*Daucus carota* var. *sativus*)

Royal Chantenay, Burpee's Toudo, Park's Nandor, Danver's 126, Red Cored Chantenay

Planting dates:

spring: February 10 - March 1

fall: August 15 - September 5

Cauliflower (*Brassica oleracea* var. *botrytis*)

Snow Crown

Planting dates:

spring: transplants, February 15 - March 1

fall:

seed: August 1 - August 15

transplants: August 20 - September 15

Chard, Swiss (*Beta vulgaris* var. *cicla*)

Rhubarb (red color), Lucullus, Fordhook

Planting dates:

spring: February 10 - March 10

fall: August 1 - September 1

Collards (*Brassica oleracea* var. *acephala*)

Blue Max, Georgia

Planting dates:

spring: February 10 - April 1

fall: August 1 - September 1

Corn, Sweet (*Zea mays* var. *saccharata*)

yellow: Golden Queen, Guadalupe Gold bicolor: Sweet G-90, Honey & Pearls white: Silver Queen, Frontier

Planting dates:

spring: March 20 - May 1 fall: August 1 - August 15

Cucumber, Pickling (*Cucumis sativus*)

County Fair 87, Liberty, Saladin

Planting dates:

spring: March 20 - May 1 fall: August 1 - August 15

Cucumber, Slicing (*Cucumis sativus*)

Sweet Success, Sweet Slice, County Fair 87, Burpless, Dasher II, Slicemaster

Planting dates:

spring: March 20 - May 1

fall: August 1 - August 15

Eggplant (*Solanum melongena* var. *esculentum*)

Tycoon (oriental), Florida Market

Planting dates:

spring: transplants, April 5 - May 1

fall:

seed: June 15 - July 1

transplants: July 1 - July 25

Garlic (*Allium sativum*)

Texas White

Planting dates:

fall only: cloves, September 15 - October 15

Greens (hybrid of Chinese cabbage x stubble turnip)

Tyfon Holland

Planting dates:

spring: February 10 - March 10

fall: August 25 - October 1

Kale (*Brassica oleracea* var. *acephala*)

Dwarf Blue Curled, Blue Knight

Planting dates:

spring: February 10 - March 10

fall: August 25 - October 1

Kohlrabi (*Brassica oleracea* var. *gongylodes*)

Grand Duke

Planting dates:

spring:

seed: February 10 - March 1

transplants: February 15 - March 1

fall

seed, August 1 - August 25

Leeks (*Allium ampeloprasum* var. *porrum*)

American Flag

Planting dates:

spring: seed, February 10 - February 25

fall: seed, September 10 - October 1

Lettuce, Butterhead (*Lactuca sativa*)

spring or fall: Buttercrunch

fall only: Tom Thumb

Planting dates:

spring: February 10 - March 15

fall: August 15 - September 10

Lettuce, Head (*Lactuca sativa*)

Classic, Park's Mission

Planting dates:

spring: February 10 - March 1

fall: August 15 - September 1

Lettuce, Leaf (*Lactuca sativa*)

Salad Bowl, Black Seeded Simpson, Red Sails (red color)

Planting dates:

spring: February 10 - March 15

fall: August 15 - September 15

Lettuce, Cos or Romaine (*Lactuca sativa*)

Romaine

Planting dates:

spring: February 10 - March 15

fall: August 15 - September 15

Mustard (*Brassica juncea*)

Florida Broadleaf, Southern Giant Curled, Tendergreen

Planting dates:

spring: February 15 - April 1

fall: August 1 - September 10

Okra (*Abelmoschus esculentus*)

Blondy, Lee, Emerald, Clemson Spineless

Planting dates:

spring: April 5 - June 1

fall: July 15 - August 15

Onion, Bulbing (*Allium cepa*)

yellow: Texas Supersweet (Grano 1015Y), Yellow Granex

red: Red Granex, Burgundy

white: Crystal Wax, White Granex

Planting dates:

seed: sow previous year September 10 - October 1

transplants: plant current year February 10 - March 5

Onion, Bunching [Scallions] (*Allium cepa*)

Beltsville Bunching

Planting dates:

seed: sow current year February 10 - March 1

Parsley (*Petroselinum crispum*)

Moss Curled, Plain (Italian)

Planting dates:

spring: February 10 - March 5

fall: August 1 - October 1

Peas, English (*Pisum sativum*)

Little Marvel, Wando, Dwarf Gray Sugar

Planting dates:

spring: February 10 - March 1

fall: September 1 - October 1

Peas, Edible-Podded (*Pisum sativum* var. *macrocarpon*)

spring only: Sugar Snap (bush)

spring or fall: Sugar Ann (bush), Sugar Pop (bush), Super Sugar Mel (vine)

Planting dates:

spring: February 10 - March 1

fall: September 1 - October 1

Peas, Southern (*Vigna unguiculata* subspecies *unguiculata*)

Blackeye #5, Mississippi Silver, Purple Hull, Zipper Cream Crowder, Colossus Crowder

Planting dates:

spring: April 1 - May 20

fall: July 1 - August 1

Pepper, Hot (*Capsicum annuum* var. *longum*)

Super Chili, Hungarian Yellow Wax, Long Red or SlimCayenne, Hidalgo Serrano, Jalapeno, TAM Mild Jalapeno

Planting dates:

spring: transplants, April 1 - May 1

fall: transplants, July 1 - July 25

Pepper, Sweet Bell (*Capsicum annuum* var. *grossum*)

green: Big Bertha, Jupiter (mature color: red), SummerSweet 860 (mature color: yellow)

yellow: Golden Summer

purple: Purple Belle

Planting dates:

spring: transplants, April 1 - May 1

fall: transplants, July 1 - July 25

Pepper, Sweet Salad (*Capsicum annuum* var. *cerasiforme*)

Gypsy, Sweet Pickle, Cubanelle, Top Banana

Planting dates:

spring: transplants, April 1 - May 1

fall: transplants, July 1 - July 25

Potato, Irish (*Solanum tuberosum*)

red: Norland (early season), Red LaSoda (midseason)

white: Kennebec (late season)

Planting dates:

spring: seed pieces, February 15 - March 1

fall: seed pieces, July 25 - August 10

Potato, Sweet (*Ipomoea batatas*)

Jewell, Centennial, Vardaman

Planting dates: (spring only) slips, April 15 - May 15

Pumpkin (*Cucurbita pepo* var. *pepo*)

Connecticut Field, Spirit, Small Sugar, Autumn Gold, Jack Be Little (ornamental)

Planting dates:

spring: April 1 - April 20

fall:

for large pumpkins June 15 - July 15

for small pumpkins July 15 - August 15

Radish (*Raphanus sativus*)

red: Inca, Champion, Cherry Belle

white: White Icicle, Snow Belle

Planting dates:

spring: February 5 - May 1

fall: September 1 - November 1

Rutabaga (*Brassica napus* var. *napobrassica*)

American Purple Top

Planting dates:

spring: February 1 - April 1

fall: August 1 - October 15

Spinach (*Spinacia oleracea*)

Melody, Coho, Iron Duke

Planting dates:

spring: February 10 - March 15

fall: August 1 - October 15

Squash, Summer (*Cucurbita pepo* var. *meloepo*)

Multipik, Dixie, Sun Drops, Burpee's Butterstick

Planting dates:

spring: March 25 - May 1

fall: August 1 - August 25

Squash, Summer Pan-Type (*Cucurbita pepo* var. *meloepo*)

yellow: Sunburst

white: Patty Pan

green: Peter Pan

Planting dates:

spring: March 25 - May 1

fall: August 1 - August 25

Squash, Winter (*Cucurbita moschata*)

Early Butternut, Sweet Mama, Table Ace, Table King Bush Acorn, Cream of the Crop

Planting dates:

spring: March 25 - May 1

fall: July 1 - August 10

Squash, Zucchini (*Cucurbita pepo* var. *meloepo*)

green: Senator, President

yellow: Goldrush

Planting dates:

spring: March 25 - May 1

fall: August 1 - August 25

Note Regarding Tomatoes: Cultivars listed as determinate are the bush type whereas those listed as indeterminate are the vining type. "A" indicates genetic resistance to Alternaria, "F1" to Fusarium wilt race 1, "F2" to Fusarium wilt race 2, "N" to root knot nematodes, "S" to Stemphylium (gray leaf spot), "T" to tobacco mosaic virus, "V" to Verticillium wilt.

Tomatoes, Large-Fruited (*Lycopersicon esculentum*)

spring:

determinate: Celebrity VFNT, Carnival VFNT, Surefire VF1, President VFNT, Merced VF1F2ST, Heatwave VF1F2SA

indeterminate: Champion VFNT, Quick Pick VFNT, Simba VFNT, First Lady VFNT, Superfantastic VFNT

fall:

determinate: Surefire VF1, Heatwave VF1F2SA

Planting dates:

spring: transplants, March 25 - April 15

fall: transplants, July 1 - July 25

Tomatoes, Paste (*Lycopersicon esculentum*)

indeterminate: Roma VF, San Marzano

Planting dates:

spring: transplants, March 25 - April 15

fall: transplants, July 1 - July 25

Tomatoes, Small-Fruited (*Lycopersicon esculentum* var. *cerasiforme*)

determinate: Small Fry VFN

indeterminate: Porter, Cherry Grande, Sweet 100

Planting dates:

spring: transplants, March 25 - April 15

fall: transplants, July 1 - July 25

Turnip (*Brassica rapa* var. *rapifera*)

spring or fall: Tokyo Cross, Royal Globe II, White Lady

fall only: Just Right

Planting dates:

spring: February 10 - March 10

fall: August 25 - October 15

Watermelon (*Citrullus lanatus*)

regular: Crimson Sweet, Sugar Baby, Royal Jubilee, Royal Sweet, Orange Golden, Star Brite

triploid or seedless (transplants only)

Jack of Hearts, Supersweet 5032, Tiffany

Planting dates:

spring: March 25 - May 1

fall: June 15 - July 1

	Basil	Beans	Broccoli	Carrots	Cauliflower	Chives	Cilantro	Corn	Cucumbers	Dill	Garlic	Leeks	Lettuce	Marigold	Melon	Nasturtium	Onion	Oregano	Parsley	Peas	Peppers	Rosemary	Sage	Spinach	Squash	Strawberries	Sunflowers	Swiss Chard	Thyme	Tomatoes
Basil																														
Beans																														
Broccoli																														
Carrots																														
Cauliflower																														
Chives																														
Cilantro																														
Corn																														
Cucumber																														
Dill																														
Garlic																														
Leeks																														
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Onion																														
Oregano																														
Parsley																														
Peas																														
Peppers																														
Rosemary																														
Sage																														
Spinach																														
Squash																														
Strawberry																														
Sunflower																														
Swiss Chard																														
Thyme																														
Tomatoes																														

Insect Repelling Plants

Chives
Repel aphids, carrot rust fly, and Japanese beetles
Chrysanthemums
Repel Japanese beetles
Cilantro
Repels aphids, potato beetles, and spider mites
Dill
Attracts predatory wasps that eat caterpillars, and repels aphids and spider mites
Garlic
Repels aphids, whiteflies, Japanese beetles, root maggots, and carrot rust fly
Leeks
Repel carrot rust fly
Marigolds
Kill nematodes, repel whiteflies, and may repel rabbits
Nasturtiums
Trap aphids, deter whiteflies and cucumber beetles, and attract predatory insects
Oregano
Repels cabbage moth
Sage
Repels cabbage moth and carrot rust fly

- Plants grow well together
 ■ Don't plant together!
 ■ Beneficial to garden in general
 ■ Carrots will have good flavor, but stunted roots

Recommended Planting Dates for North Texas

Spring

Feb 1-April 1	Rutabaga	March 20-April 20	Beans, Snap Pole
Feb 5-May 1	Radish	March 20-April 20	Beans, Lima Bush
Feb 10-Feb 25	Leeks-Seed	March 20-April 20	Beans Lima Pole
Feb 10-March 1	Beets	March 20-May 1	Beans, Snap Bush
Feb 10-March 1	Carrots	March 20-May 1	Beans, Yellow Bush
Feb 10-March 1	Kohlrabi Seed	March 20-May 1	Beans, Pinto
Feb 10-March 1	Onion for scallions, sow current year	March 20-May 1	Corn, Sweet
Feb 10-March 1	Peas, English	March 20-May 1	Cucumber, Pickling
Feb 10-March 1	Pease, Edible Pod	March 20-May 1	Cucumber, Slicing
Feb 10-March 5	Onion transplants current year	March 25-April 15	Tomatoes, large-fruited transplants
Feb 10-March 5	Parsley	March 25-April 15	Tomatoes, Paste transplants
Feb 10-March 10	Lettuce, Leaf	March 25-April 15	Tomatoes, Small fruited transplants
Feb 10-March 10	Lettuce, Cots or Romaine	March 25-May 1	Squash, Summer
Feb 10-March 10	Lettuce, Butter-head	March 25-May 1	Squash, Summer Pan-Type
Feb 10-March 10	Spinach	March 25-May 1	Squash, Winter
Feb 10-March 10	Collards	March 25-May 1	Squash, Zucchini
Feb 15-March 1	Asparagus	March 25-May 1	Watermelon
Feb 15-March 1	Crowns	April 1-April 20	Pumpkin
Feb 15-March 1	Broccoli transplants	April 1-May 1	Pepper, Hot
Feb 15-March 1	Chinese Cabbage	April 1-May 1	Pepper, Sweet Bell
Feb 15-March 1	Cauliflower transplants	April 1-May 1	Pepper, Sweet Salad
Feb 15-March 1	Kohlrabi transplants	April 1-May 20	Peas, Southern
Feb 15-March 1	Potato, Irish-seed pieces	April 5-May 1	Cantaloupe
Feb 15-April 1	Mustard	April 5-May 1	Eggplant
		April 5-June 1	Okra
		April 15-May 15	Potato, Sweet Slips

Fall

June 15-July 1	Eggplant seed	Aug 1-Sept 1	Beans, pinto
June 15-July 1	Cantaloupe	Aug 1-Sept 1	Chard, Swiss
June 15-July 1	Watermelon	Aug 1-Sept 1	Collards
June 15-July 15	Eggplant transplant	Aug 1-Sept 10	Mustard
June 15-July 15	Pepper, Hot	Aug 1-Oct 1	Parsley
June 15-July 15	Pepper, Sweet Bell	Aug 1-Oct 15	Rutabaga
June 15-July 15	Pepper, Sweet Salad	Aug 1-Oct 15	Spinach
June 15-July 15	Tomato, large fruited	Aug 10-Sept 1	Cabbage, Chinese
June 15-July 15	Tomato paste	Aug 15-Sept 1	Lettuce, head
June 15-July 15	Tomato small fruited	Aug 15-Sept 5	Carrot
July 1-August 1	Peas, Southern	Aug 15-Sept 10	Lettuce
July 1-August 10	Squash, winter	Aug 15-Sept 10	Butterhead
July 15-Aug 15	Okra	Aug 15-Sept 15	Lettuce Leaf
July 15-Aug 15	Pumpkin, small	Aug 15-Sept 15	Lettuce, or romaine
July 25-Aug 10	Potato, Irish seed pieces	Aug 20-Sept 15	Broccoli-transplants
Aug 1-Aug 15	Beans, snap pole	Aug 20-Sept 15	Brussels Sprouts-transplants
Aug 1-Aug 15	Broccoli-seed	Aug 20-Sept 15	Cabbage transplants
Aug 1-Aug 15	Brussels Sprouts seed	Aug 20-Sept 15	Cauliflower transplants
Aug 1-Aug 15	Cabbage seed	Aug 25-Oct 1	Greens
Aug 1-Aug 15	Cauliflower seed	Aug 25-Oct 1	Kale
Aug 1-Aug 15	Corn Sweet	Aug 25-Oct 15	Turnip
Aug 1-Aug 15	Cucumber Prickling	Sept 1-Sept 15	Beets
Aug 1-Aug 15	Cucumber Slicing	Sept 1-Oct 1	Peas, English
Aug 1-Aug 25	Kohlrabi seed	Sept 1-Oct 1	Peas, Edible, Podded
Aug 1-Aug 25	Squash summer	Sept 1-Oct 1	Leeks
Aug 1-Aug 25	Squash Pan type	Sept 1-Oct 1	Onion-seed-sow previous year for bulbs
Aug 1-Aug 25	Squash Zucchini	Sept 1-Nov 1	Radish
Aug 1-Sept 1	Beans, snap bush	Sept 1-Nov 1	Garlic
Aug 1-Sept 1	Beans, yellow bush		