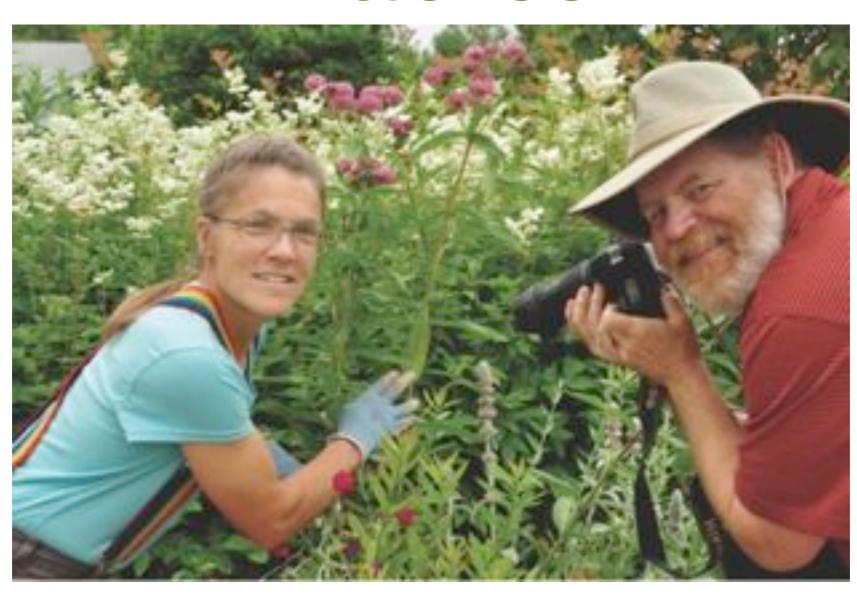
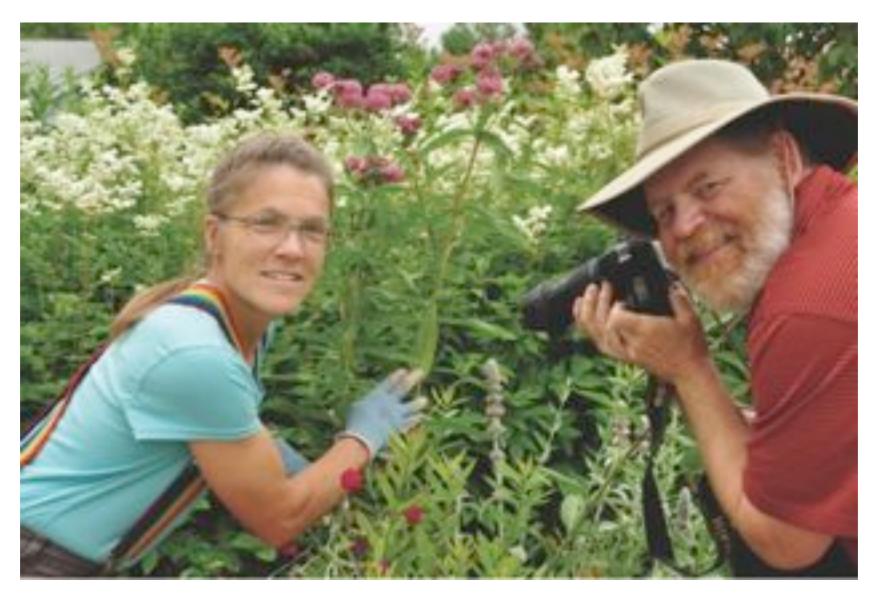
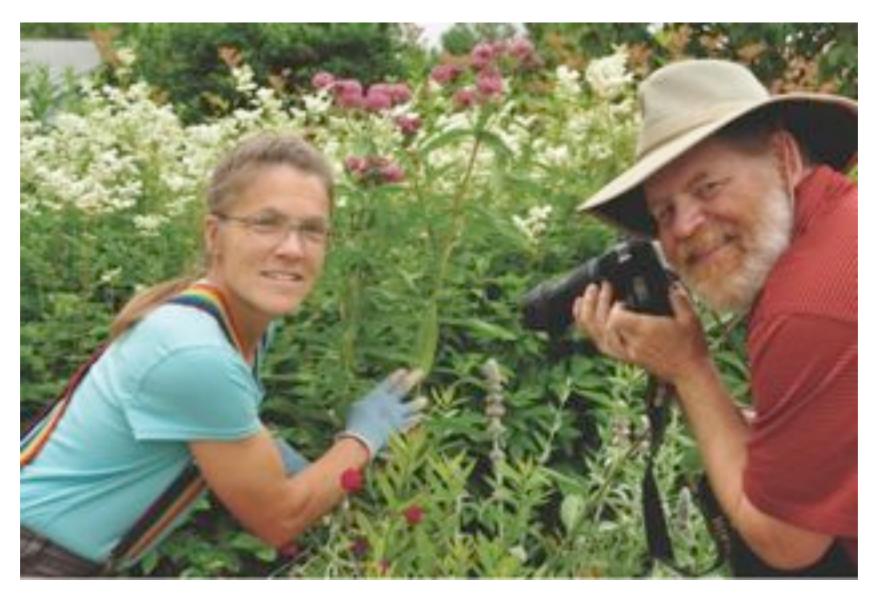
Please note: To keep its file size small enough to transfer easily via Internet, we have compressed this pdf; its photos are thus less crisp than the originals. However, you will find the quality is good in the essential graphic message in this presentation, that is, how to use the vegetable garden planning pages.

Good gardening, Janet Macunovich & Steven Nikkila

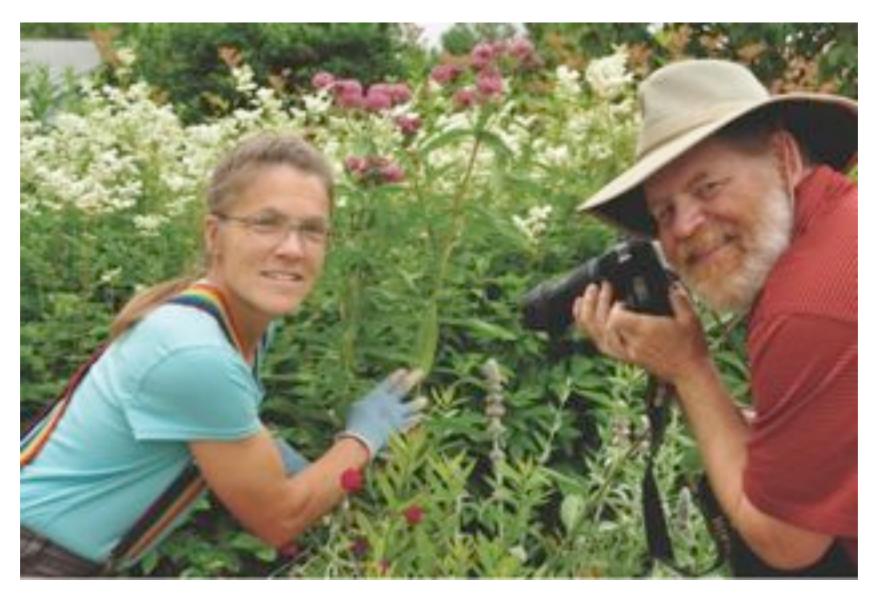




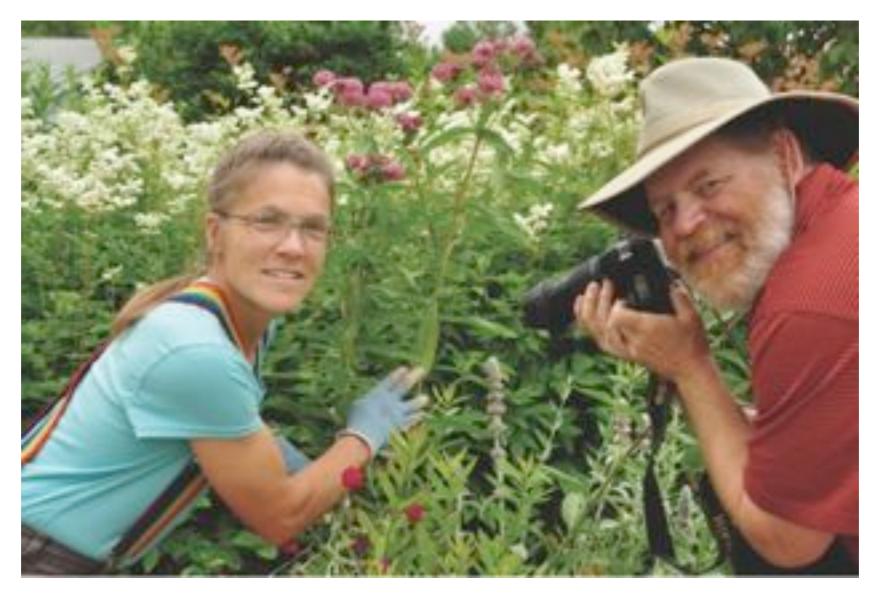
Janet Macunovich



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Vegetable Garden Basics, Part 1 (February 6)

What to grow and how much to expect to harvest, when.

When to start seeds or buy plants, prepare the planting bed and start growing. We'll look together at a timetable for all the common vegetables and then spend time working out your own personal schedule for this year's garden.

Vegetable Garden Basics, Part 2 (February 13)

Caring for and harvesting vegetables, with a special emphasis on the pest, disease and stress problems that occurred last year to identify which may carry over and what to do when to stop the cycle.

Vegetable Garden Basics, Part 3 (February 27)

The Etiquette of Community Gardening

Special aspects of managing your garden within a large community garden. A workshop based on the experience of gardeners in long established community plots. How to make the most of the advantages of community and diversity and do your best to compensate for the drawbacks of growing so close with so many others.

Vegetable Garden Basics - Part 1 -

What will you grow?
How much: Need vs. space
When to start growing

Choose your crops (Assuming a site good for anything: full sun, loose soil that's not soggy)

- 1. What will you/your family eat?
- 2. Will you graze a little at a time or do you want a serious harvest to preserve/freeze/store? For a little at a time: Select a variety AND aim for a mix of crops that mature at various times Serious harvest: Select a few, make sure you plant enough of each.

Check the chart: How long a row of each crop do you need to provide the pounds you want? Plants needed to provide listed pounds = # of row feet \div spacing between plants (5' \div 1" = 60 pea plants)

3. Rotate crops

Have these plants been grown in that ground during past 3 years? Check the chart: What family is the plant? (2nd column "family") Move a family's plants to new space. Is there room to place a repeat plant where it and its family have not grown recently?

Decide plants or seed

Seed is fun but not always inexpensive as it seems

- If sown where it will grow, you need to thin and to accept some loss
- If sown indoors: \$ can add up as you equip an indoor-growing area to start seed early

Plants: Don't buy until it's time to plant (April 1, April 15, May 15, June 10 -- "set out /sow" column 4)

Choose varieties...

- Varieties that are what you expect and need
- Varieties that are disease resistant

... and healthy plants or seed

- Individual already-started plants should be stocky, sturdy, pest free
- Seed from a reputable source (Burpee, Ball, Cook's, Park's, Seed Savers Exchange, etc.)

Get the bed ready by your earliest plant-out date: _____

- Remove whatever is growing there, roots and all
- Loosen (don't pulverize) soil. Use a fork, not tiller; or tiller just once lightly
- Check how well water drains out of an 18" deep hole; raise bed if takes +12 hours
- Soil test done? Use the prescribed fertilizer. Or add a balanced complete slow release organic

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Have these plants been grown in that grou Check the chart: What family is the plant? Is there room to place a repeat plant where

crop	family	start	set out/sow,	spacing	days to	yield per	problems	ornam. relatives
1		seed	for summer	between	harvest	row of		
		in-	crop - fall	plants x		given		
		doors	crop	rows		length		
peas	legume	4/1	4/1 - 5/15	1" x 8"	70	5 lb/ 25'	mildew, wilt, pea curculio	sweet pea, locust
beans		5/1	5/10	2" x 24"	55	30 lb/ 25'	leaf spot, aphids, bean beetle	tree, baptisia, true
			7/4			pole, more		clover, peanut
broccoli		4/15	4/15	12" x 24"	70	20 lb/ 10'	flea beetle (leaf, early), aphids,	kale, collards, rock
cauliflower			7/1				cabbage looper, cabbage maggot	cress, candy tuft,
cabbage	밑	4/1	4/15	12-18" x	75	15 lb/ 10'	(roots, summer) aphids, slugs,	money plant,
Brusls sprout	sta		6/20	24"	90	7 lb/ 10'	clubroot	kohlrabi
radish	mustard		4/1, Aug	1" x 12"	30	bunch/1'		
turnip lf, root	Η.		4/15	2" x 18"	30, 60		flea beetle	
1							flea beetle, cabbage maggot	
lettuce, leaf	daisy	4/15	<u>4/15</u> - 8/10	4" x 12"	45	5 lb/ 10'	aphids, slugs, cutworm	daisy, aster, Joe
-head			<u>4/15</u> - 8/1	12" x 18"	70	1 head / 1'		Pye, Liatris, many
spinach	goosefoot		<u>4/1</u> - 6/15	3 x 18"	50	10 lb/ 25'	aphids, harlequin bug	beets, chard
squash	+	5/15	6/15	36" x 60"	90	10 lb/ 10'	squash bug, squash vine borer,	wild cucumber
cuke/zucchi	臣	5/10	<u>5/20</u> - 6/15	12" x 48"	60	15 lb/ 10'	mildew, cucumber mosaic, wilt, scab,	
pumpkin	cucurbit		5/20 - 6/15	36" x 60"	90	50 lb./ 50'	cucumber beetle	
waterm/cant	ಕ	5/15	6/10	30" x 48"	90	10 lb/ 25'	anthracnose, leaf spot	
tomato		5/15	5/15-6/10	18" x 36"	80	10 lb/ 10'	verticillium & fusarium wilt,	petunia, nicotiana,
pepper		5/15	5/20 - 6/15	18" x 30"	75	6 lb/ 10'	nematodes, tobacco mosaic virus (V,	nierembergia,
eggplant	눈용	5/15	5/20 - 6/1	18" x 30"	70	10 lb/ 10'	F, N, T), early blight, cuc. mosaic, leaf	datura
potato	night- shade		4/15-6/1	12" x 30"	90	10 lb/ 10'	spot, fruitworm, hornworm, potato beetle, spider mite	
carrot	umbel	4/1	4/20 - 7/1	2" x 15"	65	10 lb/ 10'	parsley worm (black swallowtail	parsley, Qu Ann Lc, dill,
celery			4/20	12"	90	1 head	btrfly)	celery, bishops weed
sweet potato	morning glory		6/1	12" x 30"	115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink bugs	morning glory
okra	mallow		5/20	12" x 36"	60	10 lb/ 10'	Japanese beetle	hibiscus, hollyhock
corn	grass	5/10	5/10 - 6/20	10" x 30"	80	5 doz/ 50'	corn earworm, borer	grasses

Food from the Garden Page 8 ©2009, 2013, Janet Macunovich and Steven Nikkila 248-681-7850 Questions or free newsletter www.GardenAtoZ.com info@GardenAtoZ.com

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Choice annu	iai edibi	es: IVIIC	nigan (SE: ave	e.185-195 da	ay growing	g season, ave.		12, first free	eze 10/9, 1.	5" to 3"	rain per month)		
crop	family	start	set out/sow,	spacing	days to	yield per	problems				ornam. relatives		
-		seed	for summer	between	harvest	row of	-						
		in-	crop - fall	plants x		given							
		doors	crop	rows		length							
peas	legume	4/1	4/1-5/15	1" x 8"	70	5 lb/ 25'	mildew, w	ilt, pea cur	culio		sweet pea, locust		
beans		5/1	5/10	2" x 24"	55	30 lb/ 25'	leaf spot, a	phids, bear	n beetle		tree, baptisia, true		
			7/4			pole, more	_	•			clover, peanut		
broccoli		4/15	4/15	12" x 24"	70	20 lb/ 10'	flea beetle	(leaf, early)), aphids,		kale, collards, rock		
cauliflower			7/1				cabbage lo	oper, cabba	age maggot		cress, candy tuft,		
cabbage	걸						, ,						
Brusls sprout	stard												
radish	1 2		Crop		family	Amount	Space	Desired	Start date	Speci	al seed-starting and plant	-finding	notes
turnip lf, root	=		Clop			you want	needed	harvest	Juli duic	opec.	an seed starting and plant		, motes
1								date					
lettuce, leaf	daisy]											
-head	-												
spinach	goosefoot	1											
squash	+	1											
cuke/zucchi	rpit .												
pumpkin	3												

Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mi
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crop	family	start	set out/sow,		days to	yield per	problems				ornam. relatives	1
		seed	for summer	between	harvest	row of						1
		in-	crop - fall	plants x		given						1
		doors	crop	rows		length					_	
peas	legume	4/1	4/1 - 5/15	1" x 8"	70	5 lb/ 25'	mildew, w	ilt, pea cur	culio		sweet pea, locust	1
beans		5/1	5/10	2" x 24"	55	30 lb/ 25'	leaf spot, a	phids, bear	n beetle		tree, baptisia, true	1
			7/4			pole, more					clover, peanut	1
broccoli		4/15	4/15	12" x 24"	70	20 lb/ 10'	flea beetle	(leaf, early)), aphids,		kale, collards, rock	1
cauliflower			7/1				cabbage lo	oper, cabba	ige maggot		cress, candy tuft,	1
cabbage	mustard				-				• •		•	_
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radish	n n		Crop		family	Amount	Space	Desired	Start date	Speci	al seed-starting and pla	nt-
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lettuce, leaf	daisy											
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eggplant	불용											
potato	night- shade											_
carrot	umbel											
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sweet potato	morning glory											
okra	mallow	1	-									
corn	grass	1										
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urnip lf, root	E		Crop	family	Amount	Space needed	Desired harvest	Start date	Special seed-starting and plant-finding notes
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				Col. 2	1 lb. spinach =	See Yield	Be	Seeds:	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.
				Family	1 x-large bag; 1/4 lb. string	col. 7	reasonable. May be	Harvest date - Days	, , , , , , , , , , , , , , , , , , , ,
				Separate family	beans/serving;		multiples.	to harvest	
				members	1 big head broccoli 1/2 lb.			col. 6; Plants: 4	
				w/space and years!	broccoii 1/2 ib.			wks later.	
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crop	family	start	set out/sow,		days to	yield per	problems				ornam. relatives	1
		seed	for summer	between	harvest	row of						1
		in-	crop - fall	plants x		given						1
		doors	crop	rows		length					_	
peas	legume	4/1	4/1 - 5/15	1" x 8"	70	5 lb/ 25'	mildew, w	ilt, pea cur	culio		sweet pea, locust	1
beans		5/1	5/10	2" x 24"	55	30 lb/ 25'	leaf spot, a	phids, bear	n beetle		tree, baptisia, true	1
			7/4			pole, more					clover, peanut	1
broccoli		4/15	4/15	12" x 24"	70	20 lb/ 10'	flea beetle	(leaf, early)), aphids,		kale, collards, rock	1
cauliflower			7/1				cabbage lo	oper, cabba	ige maggot		cress, candy tuft,	1
cabbage	mustard				-				• •		•	_
Brusls sprout	sts											
radish	n n		Crop		family	Amount	Space	Desired	Start date	Speci	al seed-starting and pla	nt-
turnip lf, root] =		1		' '	you want	needed	harvest		1	0.1	
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lettuce, leaf	daisy											
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tomato												
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eggplant	불용											
potato	night- shade											_
carrot	umbel											
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sweet potato	morning glory											
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corn	grass	1										
	8-1.50	1										

abbage	mustard								
rusls sprout adish	nst								
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				Col. 2	1 lb. spinach =	See Yield	Be	Seeds:	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.
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				Separate family	beans/serving;		multiples.	to harvest	
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				w/space and years!	broccoii 1/2 ib.			wks later.	
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cabbage	mustard										•
Brusls sprout	ste										
radish	Ę		Crop		family	Amount	Space	Desired	Start date	Speci	al seed-starting and plant
turnip lf, root	-		*			you want	needed	harvest		_ ^	0 1
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lettuce, leaf	daisy										
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rusls sprout	mustar							
rusls sprout adish	1 🗒	Crop	family	Amount	Snace	Desired	Start date	Special seed-starting and plant-finding notes
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			Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.
								20'
				1				
				*92				
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Plants: Don't buy until it's time to plant (April 1, April 15, May 15, June 10 -- set out / sow column 4)

Choose varieties...

- Varieties that are what you expect and need
- Varieties that are disease resistant

... and healthy plants or seed

- Individual already-started plants should be **stocky**, **sturdy**, **pest free**
- Seed from a **reputable source** (Burpee, Ball, Cook's, Park's, Seed Savers Exchange, etc.)

Get the bed ready by your earliest plant-out date: _

- Remove whatever is growing there, roots and all
- Loosen (don't pulverize) soil. Use a fork, not tiller; or tiller just once lightly
- Check how well water drains out of an 18" deep hole; raise bed if takes +12 hours
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 Choice annual edibles: Michigan (SE: ave.185-195 day growing season, ave. last frost 5/12, first freeze 10/9, 1.5" to 3" rain per month)

 crop
 family
 start set out/sow, spacing for summer in- crop - fall
 days to harvest plants x
 yield per row of given
 problems
 ornam. relatives

Try it: Plan a Garden!

Choose your crops (Assuming a 1. What will you/your family

- 2. Will you graze a little at a for a little at a time: Select Serious harvest: Select a for Check the chart: How Plants needed to prov
- 3. Rotate crops
 Have these plants been go
 Check the chart: What far
 Is there room to place a re

Decide plants or seed

Seed is fun but not always in

- If sown where it will gr
- If sown indoors: \$ can a

Plants: Don't buy until it' tir

Sage Advice Nursery Baker Creek Seeds rareseeds.com Fedco Seeds fedcoseeds.com Johnny's Selected Seed

johnnyseeds.com

Pinetree Seeds superseeds.com Seed Savers Exchange

seedsavers.org

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Choose your crops (Assuming a site good for any

- 1. What will you/your family eat?
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- 3. Rotate crops

Have these plants been grown in that grou Check the chart: What family is the plant? Is there room to place a repeat plant where

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Seed is fun but not always inexpensive as it seems

- If sown where it will grow, you need to thin and to acc
- If sown indoors: \$ can add up as you equip an indoor-

Thorce annu	ial edibl	es: Mici	nıgan (SE	i: ave.18	85-195 da	y growing	season, ave. l	ast frost 5/1	l2, first free	ze 10/9, 1.5	" to 3"	rain per month)		
rop	family	start	set out/s	sow, s	spacing	days to	yield per	problems				ornam. relatives		
		seed	for sumn	ner b	oetween	harvest	row of							
		in-	crop - fal	1 p	olants x		given							
		doors	crop	r	ows		length							
eas	legume	4/1	4/1 - 5/1	5 1	l" x 8"	70	5 lb/ 25'	mildew, wi	ilt, pea curc	ulio		sweet pea, locust		
eans		5/1	5/10	2	2" x 24"	55	30 lb/ 25'	leaf spot, ap	phids, bean	beetle		tree, baptisia, true		
			7/4				pole, more					clover, peanut		
roccoli		4/15	4/15	1	12" x 24"	70	20 lb/ 10'	flea beetle ((leaf, early),	, aphids,		kale, collards, rock		
auliflower			7/1					cabbage loc	oper, cabba	ge maggot		cress, candy tuft,		
abbage	뒫							,		•				
rusls sprout	sta													
adish	ממ		Cro	on		family	Amount	Space	Desired	Start date	Specia	al seed-starting and plan	nt-findin	o notes
ırnip lf, root	=			°P		iuiiii j	you want	needed	harvest	Start date	opeca	an seed starting and plan		6 110103
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ettuce, leaf	daisy													
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oinach	goosefoot													
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Segret S	1	1	acces	1 000		10		i i i i i i i i i i i i i i i i i i i							l .	
Social continues Social cont	peas	legume	4/1	4/1 -	5/15	1" x 8"		5 lb/ 25'	mildew, w	ilt, pea cur	culio	sweet pe	a, locust	ļ		
broccoli cauliflower cabbage Brusls sprout Tadish turnip II, root lettuce, leaf sphead spinach squash cuke/ Zurchi pumpkin watern/ cant tomato pepper eggplant broato clerry sweet potato okra mallow corn grass Corp family Amount you want Space needed harvest date Start date Special seed-starting and plant-finding notes		1	5/1			2" x 24"	55	30 lb/ 25'	leaf spot. a	aphids, bear	n beetle	tree, bap	tisia, true	ļ		
broccolic cauliflower cabbage manufacturing Ir, root letture, leaf disyspendent squash caker / Ir, root letture, leaf dispendent squash caker / Ir, root leaf dispendent squash caker / Ir,				7/4					1 . ,	1				ļ		
Crop family Amount Space Desired Arrount Space Desired Arrount Arr	broccoli		4/15			12" x 24"	70		flea heetle	(leaf_early)	anhids	kale coll	ards rock	ļ		
cabbage Brusls sprout Paulis of Torot Educe, leaf shead Paulis Sprout Paulis Sprou			1/ 10	7/1		12 721	1,0	2010/10	cabbago lo	oper cabb	ga magaat	crocc car		- 1		
Brusls sprout radish turnip if, root lettuce, leaf spinach squash cuke/ zurcchi pumpkin waterni/ cant lomato pepper eggplant poptato corn grass Crop family Amount Space needed harvest date Special seed-starting and plant-finding notes		ਚ		//1					Cabbage IC	oper, cabba	ige maggot	. Cress, car	idy tuit,			
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Lettuce, leaf head Spinach Spi	Brusis sprout	ıst														
Lettuce, leaf head Spinach Spi		Ę			Crop		family	Amount	Space	Desired	Start date	Special seed-star	ting and plan	t-findin	g notes	
lettuce, leaf head spinach squash cuke/ zucchi pumpkin waterm/ cant tomato pepper eggplant polato clery sweet potato corn grass Carrot umbel clery Sweet potato corn grass Cal 2 Ilb. spinach samily serving. Ilb sharing lamily serving. Ilb sharing	turnip lf, root	-			1		'		needed	harvest		1	0 1	,	0	
spinach spinach squash cuke/zucchi pumpkin waterm/cant tomato pepper eggplant potato celery morning glory okra mallow corn grass Col.2 Family Separate w/space and years! Separate								1		date						
spinach squash cuke/zucchi pumpkin waterm/cant tomato pepper eggplant potato celery sweet potato or grass Sepant color colo		daisy														
Squash cuke / zucchi pumpkin waterm / cant tomato pepper eggplant potato clery sweet potato orn grass	-head															
Squash cuke / zucchi pumpkin waterm / cant tomato pepper eggplant potato clery sweet potato orn grass	spinach	goosefoot	1													
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eggplant potato]														
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members w/space and years! 1 big head broccoli 1/2 lb. Plants: 4 wks later. 20'							family	beans/serving;		multiples.	to harvest					
and years! wks later. 20'			1					1 big head			col. 6;					
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Choice annu	ıal edibl	es: Micl	higan (S	SE: ave	.185-195 da	y growing	g season, ave.	last frost 5/	12, first free	eze 10/9, 1.5	5" to 3"	rain per month)	
crop	family	start seed in- doors	set out/ for sum crop - fa crop	/ sow, nmer all	spacing between plants x rows	days to harvest	yield per row of given length	problems				ornam. relatives	
peas	legume	4/1	4/1 - 5/	/15	1" x 8"	70	5 lb/ 25'	mildew, w				sweet pea, locust	
beans		5/1	5/10 7/4		2" x 24"	55	30 lb/ 25' pole, more	leaf spot, a	phids, bear	n beetle		tree, baptisia, true clover, peanut	
broccoli cauliflower		4/15	4/15 7/1		12" x 24"	70	20 lb/ 10'	flea beetle cabbage lo), aphids, ige maggot		kale, collards, rock cress, candy tuft,	
cabbage Brusls sprout	mustard		•						\ 1.			•	
radish turnip lf, root			C	Crop		family	Amount you want	Space needed	Desired harvest date	Start date	Speci	al seed-starting and pla	ant-f
lettuce, leaf -head	daisy												
spinach	goosefoot		_										
squash cuke/zucchi pumpkin waterm/cant	cucurbit												
tomato													
pepper eggplant potato	night- shade												
carrot	umbel												
sweet potato	morning glory												
okra	mallow												
corn	grass												

abbage rusls sprout	mustar								
rusls sprout adish urnip lf, root			Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
ettuce, leaf head	daisy								
pinach	goosefoot								
quash	=								
uke/zucchi	cucurbit								
umpkin	157								
vaterm/cant] 5								
omato	1								
epper	1								
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otato	night- shade								
arrot	umbel								
elery	1								
weet potato	morning glory								
kra	mallow	1							
orn	grass	İ							
	8								
				Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.
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				Oues	tions											681-7850 toZ.com

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Choice annu	iai edibi	es: Mic	nigan (SE: ave	185-195 da	iy growing	g season, ave.	last frost 5/12, first freeze 10/9, 1.5" to 3	rain per month)
crop	family	start	set out/sow,	spacing	days to	yield per	problems	ornam. relatives
_		seed	for <u>summer</u>	between	harvest	row of		
		in-	<u>crop</u> - fall	plants x		given		
		doors	crop	rows		length		
peas	legume	4/1	<u>4/1</u> - <u>5/15</u>	1" x 8"	70	5 lb/ 25'	mildew, wilt, pea curculio	sweet pea, locust
beans		5/1	5/10	2" x 24"	55	30 lb/25'	leaf spot, aphids, bean beetle	tree, baptisia, true
			7/4			pole, more		clover, peanut
broccoli		4/15	4/15	12" x 24"	70	20 lb/ 10'	flea beetle (leaf, early), aphids,	kale, collards, rock
cauliflower			7/1				cabbage looper, cabbage maggot	cress, candy tuft,
cabbage	rd	4/1	4/15	12-18" x	75	15 lb/ 10'	(roots, summer) aphids, slugs,	money plant,
Brusls sprout	stard		6/20	24"	90	7 lb/ 10'	clubroot	kohlrabi
radish	ת חנו		<u>4/1</u> , Aug	1" x 12"	30	bunch/1'		
turnip lf, root	7 =		4/15	2" x 18"	30, 60		flea beetle	
1 ,							flea beetle, cabbage maggot	
lettuce, leaf	daisy	4/15	<u>4/15</u> - 8/10	4" x 12"	15	F 11 / 40!	1 • 1 1	1 • , т
-head			4/15 - 8/1	12" x 18"		TAT	1 . •11	
spinach	goosefoot		<u>4/1</u> - 6/15	3 x 18"			hat will yo	nir
squash	ţ.	5/15	6/15	36" x 60"		VV	mat will be	JUI
cuke/zucchi	bit	5/10	5/20 - 6/15	12" x 48"	Ī			

What will your family eat?

pumpkin	- cac		5/20 - 6/15	36 X 60	l .			
waterm/cant]	5/15	6/10	30" x 48"	Ī	-	family eat	
tomato		5/15	5/15 - 6/10	18" x 36"	Ī		lailily Cat	
pepper		5/15	5/20 - 6/15	18" x 30"	Ţ			
eggplant	ht- de	5/15	5/20 - 6/1	18" x 30"	70	10 lb/ 10'	F, N, T), early blight, cuc. mosaic, leaf	datura
potato	night- shade		4/15 - 6/1	12" x 30"	90	10 lb/ 10'	spot, fruitworm, hornworm, potato	
_							beetle, spider mite	
carrot	umbel	4/1	<u>4/20</u> - 7/1	2" x 15"	65	10 lb/ 10'	parsley worm (black swallowtail	parsley, Qu Ann Lc, dill,
celery			4/20	12"	90	1 head	btrfly)	celery, bishops weed
sweet potato	morning		6/1	12" x 30"	115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink	morning glory
	glory						bugs	
okra	mallow		5/20	12" x 36"	60	10 lb/ 10'	Japanese beetle	hibiscus, hollyhock
corn	grass	5/10	<u>5/10</u> - 6/20	10" x 30"	80	5 doz/ 50'	corn earworm, borer	grasses
Į.	1	I	I	I	I	I	I	1 1

crop	family	start	set out/sow,	spacing	days to	yield per	problems	ornam. relatives
•		seed	for <u>summer</u>	between	harvest	row of		
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Brusls sprout	sta	·	$\frac{6}{20}$	24"	90	7 lb/ 10'	clubroot	kohlrabi
radish	mustard		<u>4/1</u> , Aug	1" x 12"	30	bunch/1'		
turnip lf, root	1 =		4/15	2" x 18"	30, 60		flea beetle	
					,		flea beetle, cabbage maggot	
lettuce, leaf	daisy	4/15	<u>4/15</u> - 8/10	4" x 12"	1	F 11 / 4 OL	1 1 1 1 .	1 , , ,
-head			<u>4/15</u> - 8/1	12" x 18"	1	TAT	1	
spinach	goosefoot		<u>4/1</u> - 6/15	3 x 18"			hat will yo	nir
squash	<u> </u>	5/15	6/15	36" x 60"	1	VV	mat will yo	JUI
cuke/zucchi	1rb	5/10	<u>5/20</u> - 6/15	12" x 48"	1			
pumpkin	cucurbit		<u>5/20</u> - 6/15	36" x 60"	1		C •1	
waierm/cant	D	5/15	6/10	30" x 48"	1	1	tamily eat	
tomato		5/15	5/15 - 6/10	18" x 36"			lammy cat	
pepper		5/15	5/20 - 6/15	18" x 30"			family eat	
eggplant	night- shade	5/15	5/20 - 6/1	18" x 30"	70	1010/10	1, 1, 1, carry bright, cac. mosaic, icar	datura
potato	— gir sha		4/15 - 6/1	12" x 30"	90	10 lb/ 10'	spot, fruitworm, hornworm, potato	
<u> </u>		4 / 4	1/20 = /4	011 4511	/-	40.11 / 401	beetle, spider mite	
carrot	umbel	4/1	$\frac{4/20}{1/20}$ - 7/1	2" x 15"	65	10 lb/10'	parsley worm (black swallowtail	parsley, Qu Ann Lc, dill, celery, bishops weed
celery			4/20	12"	90	1 head	btrfly)	-
sweet potato	morning glory		6/1	12" x 30"	115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink bugs	morning glory
okra	mallow		5/20	12" x 36"	60	10 lb/ 10'	Japanese beetle	hibiscus, hollyhock
corn	grass	5/10	<u>5/10</u> - 6/20	10" x 30"	80	5 doz/ 50'	corn earworm, borer	grasses
00221								

crop	family	start	set out/sow,	spacing	days to	yield per	problems	ornam. relatives
	<i>J</i>	seed	for <u>summer</u>	between	harvest	row of	_	
		in-	<u>crop</u> - fall	plants x		given		
		doors	crop	rows		length		
peas	legume	4/1	<u>4/1</u> - <u>5/15</u>	1" x 8"	70	5 lb/ 25'	mildew, wilt, pea curculio	sweet pea, locust
beans		5/1	5/10 7/4	2" x 24"	55	30 lb/ 25' pole, more	leaf spot, aphids, bean beetle	tree, baptisia, true clover, peanut
broccoli cauliflower		4/15	$\frac{4/15}{7/1}$	12" x 24"	70	20 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot	kale, collards, rock cress, candy tuft,
cabbage	ırd	4/1	4/15	12-18" x	75	15 lb/ 10'	(roots, summer) aphids, slugs,	money plant,
Brusls sprout	sta		6/20	24"	90	7 lb/ 10'	clubroot	kohlrabi
radish	mustard		<u>4/1</u> , Aug	1" x 12"	30	bunch/1'		
turnip lf, root	H		4/15	2" x 18"	30, 60		flea beetle	
	4 .				1.5		flea beetle, cabbage maggot	
lettuce, leaf	daisy	4/15	4/15 - 8/10	4" x 12"	1-	11 / 4/1		
-head			4/15 - 8/1	12" x 18"	1	TAT	l	
spinach	goosefoot	= /4=	4/1 - 6/15	3 x 18"	1		nat will vo	MIT'
squash	oit.	5/15	6/15	36" x 60"	1	V V	hat will yo family eat	/ UI
cuke/zucchi	cucurbit	5/10	5/20 - 6/15	12" x 48"	1			
pumpkin	anc.	E / 1 E	5/20 - 6/15	36" x 60"	1		[1]	
waierm/cant	<u> </u>	5/15	6/10	30" x 48"	1		ramiiv eat	
tomato		5/15	5/15 - 6/10	18" x 36"	1		latifity cat	
pepper	.ს. ტე	5/15	5/20 - 6/15	18" x 30"	70			_
eggplant	sht ade	5/15	5/20 - 6/1	18" x 30"	70	10 lb / 10'	F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato	datura
potato	night- shade	_	4/15 - 6/1	12" x 30"	90	10 lb/ 10'	beetle, spider mite	
carrot	umbel	4/1	<u>4/20</u> - 7/1	2" x 15"	65	10 lb/ 10'	parsley worm (black swallowtail	parsley, Qu Ann Lc, dill,
celery			4/20	12"	90	1 head	btrfly)	celery, bishops weed
sweet potato	morning glory		6/1	12" x 30"	115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink bugs	morning glory
_	mallow		5/20	12" x 36"	60	10 lb/ 10'	Japanese beetle	hibiscus, hollyhock
okra	grass	5/10	<u>5/10</u> - 6/20	10" x 30"	80	5 doz/ 50'	corn earworm, borer	grasses
okra corn	81400							
	81400							
	STUDO							

Choice annual edibles: Michigan (SE: ave.185-195 day growing season, ave. last frost 5/12, first freeze 10/9, 1.5" to 3" rain per month)

crop	family	start	set out/sow,	spacing	days to	yield per	problems	ornam. relatives
		seed	for <u>summer</u>	between	harvest	row of		
		in-	<u>crop</u> - fall	plants x		given		
		doors	crop	rows		length		
peas	legume	4/1	<u>4/1</u> - <u>5/15</u>	1" x 8"	70	5 lb/ 25'	mildew, wilt, pea curculio	sweet pea, locust
beans		5/1	5/10	2" x 24"	55	30 lb/25'	leaf spot, aphids, bean beetle	tree, baptisia, true
			7/4			pole, more		clover, peanut
broccoli		4/15	4/15	12" x 24"	70	20 lb/ 10'	flea beetle (leaf, early), aphids,	kale, collards, rock
cauliflower			7/1				cabbage looper, cabbage maggot	cress, candy tuft,
cabbage	ırd	4/1	4/15	12-18" x	75	15 lb/ 10'	(roots, summer) aphids, slugs,	money plant,
Brusls sprout	mustard		6/20	24"	90	7 lb/ 10'	clubroot	kohlrabi
radish	nu		<u>4/1</u> , Aug	1" x 12"	30	bunch/1'		
turnip lf, root	H		4/15	2" x 18"	30, 60		flea beetle	
1 ,							flea beetle, cabbage maggot	
lettuce, leaf	daisy	4/15	<u>4/15</u> - 8/10	4" x 12"	45	5 lb/ 10'	aphids, slugs, cutworm	daisy, aster, Joe
-head			<u>4/15</u> - 8/1	12" x 18"	70	1 head / 1'		Pye, <i>Liatris</i> , many
spinach	goosefoot		<u>4/1</u> - 6/15	3 x 18"	50	10 lb/ 25'	aphids, harlequin bug	beets, chard
squash	t t	5/15	6/15	36" x 60"	90	10 lb/ 10'	squash bug, squash vine borer,	wild cucumber
cuke/zucchi	rbi	5/10	<u>5/20</u> - 6/15	12" x 48"	60	15 lb/ 10'	mildew, cucumber mosaic, wilt, scab,	
pumpkin	cucurbit		<u>5/20</u> - 6/15	36" x 60"	90	50 lb./ 50'	cucumber beetle	
waterm/cant	ಕ	5/15	6/10	30" x 48"	90	10 lb/ 25'	anthracnose, leaf spot	
tomato		5/15	5/15 - 6/10	18" x 36"	80	10 lb/ 10'	verticillium & fusarium wilt,	petunia, nicotiana,
pepper		5/15	5/20 - 6/15	18" x 30"	75	6 lb/ 10'	nematodes, tobacco mosaic virus (V,	nierembergia,
eggplant	tr ge	5/15	5/20 - 6/1	18" x 30"	70	10 lb/ 10'	F, N, T), early blight, cuc. mosaic, leaf	datura
potato	night- shade	-	4/15 - 6/1	12" x 30"	90	10 lb/ 10'	spot, fruitworm, hornworm, potato	
1	n S						beetle, spider mite	
carrot	umbel	4/1	<u>4/20</u> - 7/1	2" x 15"	65	10 lb/ 10'	parsley worm (black swallowtail	parsley, Qu Ann Lc, dill,
celery			4/20	12"	90	1 head	btrfly)	celery, bishops weed
sweet potato	morning		6/1	12" x 30"	115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink	morning glory
1	glory						bugs	
okra	mallow		5/20	12" x 36"	60	10 lb/ 10'	Japanese beetle	hibiscus, hollyhock
corn	grass	5/10	5/10 - 6/20	10" x 30"	80	5 doz/50'	corn earworm, borer	grasses

Grazers, or aiming for serious harvest?







Choice annual edibles: Michigan (SE: ave.185-195 day growing season, ave. last frost 5/12, first freeze 10/9, 1.5" to 3" rain per month) crop family start set out/sow, spacing days to yield per problems ornam. relatives

cron	family	start	set out/sow,	spacing	days to	yield per	problems	ornam. relatives
crop	laililly	seed	for summer	between	harvest	row of	problems	omain. relatives
		in-			liaivest			
		doors	<u>crop</u> - fall	plants x rows		given		
2020	logumo		crop	1" x 8"	70	length 5 lb/ 25'	mildour wilt non gurgulio	great pos logist
peas	legume	4/1	4/1 - 5/15				mildew, wilt, pea curculio	sweet pea, locust
beans		5/1	$\frac{5/10}{7/4}$	2" x 24"	55	30 lb/25'	leaf spot, aphids, bean beetle	tree, baptisia, true
1 1:		4/15	7/4	10" 04"	70	pole, more	Classication (land and all and and all and	clover, peanut
broccoli		4/15	$\frac{4/15}{7/1}$	12" x 24"	70	20 lb/ 10'	flea beetle (leaf, early), aphids,	kale, collards, rock
cauliflower	ਚ	1/1	7/1	10 10"		15 11 / 10!	cabbage looper, cabbage maggot	cress, candy tuft,
cabbage	ar	4/1	$\frac{4/15}{6/20}$	12-18" x	75	15 lb / 10'	(roots, summer) aphids, slugs,	money plant,
Brusls sprout	mustard		6/20	24"	90	7 lb/ 10'	clubroot	kohlrabi
radish] [[<u>4/1</u> , Aug	1" x 12"	30	bunch/1'	(leabeatle	
turnip lf, root			4/15	2" x 18"	30, 60		flea beetle	
1 11 1 6	1 .	4/15	4/15 0/10	411 1011	45	F 11 / 10!	flea beetle, cabbage maggot	1
lettuce, leaf	daisy	4/15	$\frac{4/15}{4/15}$ - 8/10	4" x 12"	45	5 lb/ 10'	aphids, slugs, cutworm	daisy, aster, Joe
-head			4/15 - 8/1	12" x 18"	70	_	- 0 - 1	_
spinach	goosefoot		4/1 - 6/15	3 x 18"	50		w to fit wh	0 + 1701
squash	<u> </u>	5/15	6/15	36" x 60"	90		/V I() III VVII	AI V()I
cuke/zucchi	cucurbit	5/10	<u>5/20</u> - 6/15	12" x 48"			1 60 116 1111	
pumpkin	5		5/20 - 6/15	26" v 60"				
	1 5			36" x 60"	90			
waterm/cant	3	5/15	6/10	30" x 48"	90		1:	
waterm/cant tomato	8	5/15 5/15			90 90 80	nee	d into the	snace
tomato	-	-	6/10	30" x 48"	90 90 80 75	nee	d into the	space
tomato pepper	-	5/15	6/10 5/15 - 6/10	30" x 48" 18" x 36"	90 90 80 75 70	nee	d into the	space
tomato pepper eggplant	-	5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15	30" x 48" 18" x 36" 18" x 30"	90 80 75	nee		_
tomato pepper	night- cu shade	5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1	30" x 48" 18" x 36" 18" x 30" 18" x 30"	90 80 75 70	nee		_
tomato pepper eggplant	-	5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1	30" x 48" 18" x 36" 18" x 30" 18" x 30"	90 80 75 70	nee		_
tomato pepper eggplant potato	night- shade	5/15 5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30"	90 80 75 70 90	nee	d into the you have	_
tomato pepper eggplant potato carrot celery	night- shade	5/15 5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15"	90 80 75 70 90	nee	you have	e
tomato pepper eggplant potato carrot	night- shade	5/15 5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12"	90 80 75 70 90 65 90		you have wilt, nematodes, scurf, pox, stink	_
tomato pepper eggplant potato carrot celery sweet potato	umbel shade glory	5/15 5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs	morning glory
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock
tomato pepper eggplant potato carrot celery sweet potato	umbel shade glory	5/15 5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs	morning glory
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock
tomato pepper eggplant potato carrot celery sweet potato okra	morning glory mallow	5/15 5/15 5/15 4/1	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1 4/20 - 7/1 4/20 6/1 5/20	30" x 48" 18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15" 12" 12" x 30"	90 80 75 70 90 65 90 115	10 lb/ 10'	you have wilt, nematodes, scurf, pox, stink bugs Japanese beetle	morning glory hibiscus, hollyhock

Choice annual edibles: Michigan (SE: ave.185-195 day growing season, ave. last frost 5/12, first freeze 10/9, 1.5" to 3" rain per month) set out/sow, spacing days to yield per problems family crop start ornam. relatives for summer between harvest row of seed incrop - fall given plants x length 5 lb/ 25' mildew, wilt, pea curculio sweet pea, locust Space needed 30 lb / 25' leaf spot, aphids, bean beetle tree, baptisia, true pole, more clover, peanut 20 lb / 10' flea beetle (leaf, early), aphids, kale, collards, rock cabbage looper, cabbage maggot cress, candy tuft, (roots, summer) aphids, slugs, 15 lb/ 10' money plant, 7 lb/ 10' kohlrabi clubroot bunch/1' flea beetle flea beetle, cabbage maggot 1 lb. spinach = 1 x-large bag; 1/4 lb. string Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later. Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt reasonable. May be 5 lb/ 10' aphids, slugs, cutworm daisy, aster, Joe beans/serving 1 big head broccoli 1/2 lb How to fit what you need into the space Food from the Garden Page 9 ©2009, 2013, Janet Macunovich and Steven Nikkila 248-681-7850 Questions or free newsletter www.GardenAtoZ.com info@GardenAtoZ.com you have potato nig sh 4/13-0/1 12 X 30 4/1 2" x 15" umbel 4/20 - 7/165 carrot 4/20 12" 90 celerv 12" x 30" 6/1 10 lb / 10' wilt, nematodes, scurf, pox, stink sweet potato morning 115 morning glory glory bugs Japanese beetle mallow 5/20 12" x 36" 60 10 lb/ 10' okra hibiscus, hollyhock 5/10 - 6/20 10" x 30" 5/10 80 5 doz/ 50' corn earworm, borer corn grass grasses

Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.
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Family 1 x-large bag; col. 7 reasonable. Harvest Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest	Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest	tomato						
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
and years! Wks later. 20'		Family Separate family members w/space	1/4 lb. string	See Yield col. 7	reasonable. May be	Harvest date - Days to harvest col. 6; Plants: 4	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

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Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato						
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.
						20'

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Crop	family	Amo	unt	Spac	ce	Des	sired	St	tart dat	e Special seed-sta	rting and pla	nt-finding notes
		У	•	l	1 1					·		
			Choice ann	aal edible family	s: Mich start	nigan (SE: ave set out/sow,	spacing	y growing days to	g season, ave. yield per	last frost 5/12, first freeze 10/9, 1.5" to 3 problems	rain per month)	
					seed in-	for <u>summer</u> <u>crop</u> - fall	between plants x	harvest	row of given			
tomato	(2000		doors	crop 4/1 - 5/15	rows	70	length 5 lb/25'	mildew, wilt, pea curculio	avecat non locust	
romaro			peas beans		4/1 5/1	5/10 7/4	2" x 24"	55	30 lb / 25'	leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true	
		\dashv	broccoli		4/15	4/15 7/1	12" x 24"	70	pole, more 20 lb / 10'	flea beetle (leaf, early), aphids,	clover, peanut kale, collards, rock	
			cauliflower cabbage	r r	4/1	4/15	12-18" x	75	15 lb/ 10'	cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	cress, candy tuft, money plant, kohlrabi	
			Brusls sprout radish	mustard		6/20 4/1, Aug	24" 1" x 12"	75 90 30	7 lb/ 10' bunch/1'	clubroot	kohlrabi	
		_	turnip lf, root			4/15	2" x 18"	30, 60	bunen, 1	flea beetle flea beetle, cabbage maggot		
			lettuce, leaf -head	daisy	4/15	<u>4/15</u> - 8/10 <u>4/15</u> - 8/1	4" x 12" 12" x 18" 3 x 18"	45	5 lb/ 10' 1 head/ 1'	aphids, slugs, cutworm	daisy, aster, Joe Pye, <i>Liatris</i> , many	
			spinach	goosefoot		<u>4/13</u> - 6/15	3 x 18"	50	10 lb / 25'	aphids, harlequin bug	beets, chard	
			squash cuke/zucchi	rbit		6/15 5/20 - 6/15	36" x 60" 12" x 48"		10 lb / 10' 15 lb / 10'	squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab,	wild cucumber	
			pumpkin waterm/cant	cucurbit	5/15	<u>5/20</u> - 6/15 6/10	36" x 60" 30" x 48"		50 lb./ 50' 10 lb/ 25'	cucumber beetle anthracnose, leaf spot		
			tomato		5/15	5/15 - 6/10	18" x 36"	80	10 lb/ 10'	verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V,	petunia, nicotiana,	
			pepper eggplant		5/15	5/20 - 6/1	18" x 30" 18" x 30"	75 70	6 lb/ 10' 10 lb/ 10'	F. N. T), early blight, cuc, mosaic, leaf	nierembergia, datura	
	+	\dashv	potato				12" x 30"		10 lb/ 10'	spot, fruitworm, hornworm, potato beetle, spider mite		
			carrot	umbel	4/1	4/20 - 7/1 4/20	2" x 15" 12"	65 90	10 lb / 10' 1 head	parsley worm (black swallowtail btrfly)	parsley, Qu Ann Lc, dill, celery, bishops weed	
			sweet potato	morning glory		6/1	12" x 30"	115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink bugs	morning glory	
			okra	mallow	E/10	5/20 5/10 - 6/20	12" x 36" 10" x 30"		10 lb / 10' 5 doz / 50'	Japanese beetle	hibiscus, hollyhock	
			corn	grass	5/10	<u>5/10</u> - 6/20	10 X 30	80	5 doz/ 50	corn earworm, borer	grasses	
									_	Food fr	om the Garden Page 8	
	Col. 2	1						(2009, 2013, Janet Macunovich and Stever ee newsletter www.GardenAtoZ.com ii		viceNursery.com Pontiac Farm Mkt.
	Family	1 2 101	ge vag,	- CO1. 7		Teas	опарте.	11	arvest			vicervarsery.com i omac i aim wikt.
	Separate	1/4 lb	o. string			May			ate - Days	;		
	family	beans	/serving; nead			mult	tiples.		harvest			
	members	1 big l	nead						ol. 6;			
	w/space and years!	brocco	oli 1/2 lb.						ants: 4 ks later.			
	and years:							W	ks later.	20'		
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Col. 2 Family Separate [J4] Ib. spinach = 1 x-large bag; Separate family beans/ Serving: Separate family beans/ Serving: Separate family beans/ Serving: Separate family beans/ Serving: Separate family beans/ Serving: Separate family beans/ Serving: Separate family beans/ Serving: Separate family beans/ Serving: Separate family beans/ Serving: Separate family beans/ Serving: Seeds: Harvest date - Dug dat	Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest	tomato	night- shade					
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
w/space and years! broccoli 1/2 lb. Plants: 4 wks later.		Family Separate family members w/space	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	reasonable. May be	Harvest date - Days to harvest col. 6; Plants: 4	Margaret Thele, http:/SageAdviceNursery.com Pontiac Farm Mkt.

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Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade					
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.
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Family 1 x-large bag; col. 7 reasonable. Harvest	Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest	tomato	night- shade	50, 1/4 lb).			
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
Separate 1/4 lb. string May be date - Days family beans/serving: multiples. to harvest							
and years! wks later.		Family Separate family members w/space	1/4 lb. string	See <i>Yield</i> col. 7	reasonable. May be	Harvest date - Days to harvest col. 6; Plants: 4	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

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Col. 2 1 lb. spir Family 1 x-large	t needed	you want	Desired harvest date	Start date	Special seed-starting and plant-finding notes
Col. 2 1 lb. spir Family 1 x-large	Ib.	12.5 lb.			
Col. 2 1 lb. spir Family 1 x-large					
Col. 2 1 lb. spir Family 1 x-large					
Col. 2 1 lb. spir Family 1 x-large					
Col. 2 1 lb. spir Family 1 x-large					
Col. 2 1 lb. spir Family 1 x-large					
Col. 2 1 lb. spir Family 1 x-large					
Separate 1/4 lb. si	ng ing:	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

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Crop	family	Amount you want	Space needed	Desi harv date	est	Start	date	Sp	ecial se	eed-starting and plan	nt-finding no	otes
tomato	night- shade	12.5 lb.)								
			Choice at	nily	start seed in- doors	set out/sow, for <u>summer</u> <u>crop</u> - fall crop	spacing between plants x rows	days to harvest	yield per t row of given length	last frost 5/12, first freeze 10/9, 1.5" to 3 problems	ornam. relatives	
			peas beans broccoli cauliflower cabbage Brusls spro radish turnip lf, ro	nustard	5/ 4/15 4/1	4/1 - 5/15 5/10 7/4 V15 7 4/13 6/20 4/1, Aug 4/15	2" x 24" 12" x 24" 12-18" x 24" 1" x 12"	70 55 70 75 90 30 30, 60	5 lb/ 25' 30 lb/ 25' pole, more 20 lb/ 10' 15 lb/ 10' 7 lb/ 10' bunch/1'	mildew, wilt, pea curculio leaf spot, aphids, bean beetle flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot (roots, summer) aphids, slugs, clubroot flea beetle	sweet pea, locust tree, baptisia, true clover, peanut kale, collards, rock cress, candy tuft, money plant, kohlrabi	
			lettuce, leaf -head spinach squash cuke/zucch pumpkin waterm/ca	daisy goosefoot	5/15 5/10	4/15 - 8/10 4/15 - 8/1 4/1 - 6/15	4 12" 12" x 3" 3 x 18' 36" x 60" 12" x 48"	45 70 50	5 lb/ 10' 1 head/ 1' 10 lb/ 25' 10 lb/ 10' 15 lb/ 10' 50 lb./ 50' 10 lb/ 25'	flea beetle, cabbage maggot aphids, slugs, cutworm aphids, harlequin bug squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab, cucumber beetle anthracnose, leaf spot	daisy, aster, Joe Pye, Liatris, many beets, chard wild cucumber	
			tomato pepper eggplant potato carrot celery	nmpel	5/15 5/15 5/15 4/1	5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1	18" x 36" 18" x 30" 18" x 30" 12" x 30" 2" x 15"	80 75 70	10 lb/ 10' 6 lb/ 10' 10 lb/ 10' 10 lb/ 10' 10 lb/ 10' 10 lb/ 10'	verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V, F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato beetle, spider mite parsley worm (black swallowtail btrfly)	petunia, nicotiana, nierembergia, datura parsley, Qu Ann Lc, dill, celery, bishops weed	
			okra corn	o morning glory mallow grass	5/10	5/20 5/10 - 6/20	12" x 30" 12" x 36" 10" x 30"		10 lb/ 10' 10 lb/ 10' 5 doz/ 50'	wilt, nematodes, scurf, pox, stink bugs Japanese beetle corn earworm, borer	morning glory hibiscus, hollyhock grasses	
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.								Food fi 2009, 2013, Janet Macunovich and Steve ree newsletter www.GardenAtoZ.com i		om Pontiac Farm Mkt
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Crop	family	Amount you want	Space needed	Desi harv date		Start	t date	Sp	ecial se	eed-starting and pla	nt-finding no	otes
tomato	night- shade	12.5 lb.	12.5 ft.)								
			Choice an		les: Mic	higan (SE: av	e.185-195 da	y growii	ng season, ave.	last frost 5/12, first freeze 10/9, 1.5" to 3	3" rain per month)	
			Пор	nily	seed in- doors	for summer crop - fall crop	between plants x rows	harvest		problems	offiant. relatives	
			peas beans	legume	5/.	4/1 - 5/15 5/10 7/4	1" x 8" 2" x 24"	70 55	5 lb/ 25' 30 lb/ 25' pole, more	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true clover, peanut	
			broccoli cauliflower cabbage	2	4/15	<u>15</u>	12" x 24" 12-18" x	70 75	20 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	kale, collards, rock cress, candy tuft,	
			Brusls sprou radish turnip lf, roo	n n	-/ -	4/1. 6/20 4/1, Aug 4/15	24" 1" x 12" 2" x 18"	90 30 30, 60	7 lb/ 10' bunch/1'	clubroot flea beetle	money plant, kohlrabi	
			lettuce, leaf	daisy	4/15	4/15 - 8/10 4/15 - 8/1	4 12"	45 70	5 lb/ 10' 1 head/ 1'	flea beetle, cabbage maggot aphids, slugs, cutworm	daisy, aster, Joe Pye, <i>Liatris</i> , many	
			spinach squash cuke/zucchi pumpkin	p	5/15 5/10	4/1 - 6/15 6/15 5/20 - 6/15 5/20 - 6/15 6/10	3 x 18" 36" x 60" 12" x 48"	50	10 lb/ 25' 10 lb/ 10' 15 lb/ 10' 50 lb./ 50'	aphids, harlequin bug squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab, cucumber beetle anthracnose, leaf spot	beets, chard wild cucumber	
			waterm/can tomato pepper eggplant potato	night-	5/15 5/15	5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1	18" x 36"	80 75 70	10 lb/ 25' 10 lb/ 10' 6 lb/ 10' 10 lb/ 10' 10 lb/ 10'	verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V, F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato	petunia, nicotiana, nierembergia, datura	
			carrot	umbel	4/1	4/20 - 7/1 4/20 6/1	12"	65 90 115	10 lb/ 10' 1 head 10 lb/ 10'	beetle, spider mite parsley worm (black swallowtail btrfly)	parsley, Qu Ann Lc, dill, celery, bishops weed	
			okra	morning glory mallow grass		5/20 5/10 - 6/20	12" x 36" 10" x 30"	60	10 lb/ 10' 5 doz/ 50'	wilt, nematodes, scurf, pox, stink bugs Japanese beetle corn earworm, borer	morning glory hibiscus, hollyhock grasses	
	Col. 2 Family Separate	1 lb. spinach = 1 x-large bag; 1/4 lb. string										om Pontiac Farm Mkt
	family members w/space and years!	beans/serving; 1 big head broccoli 1/2 lb.								Food fr 22009, 2013, Janet Macunovich and Steve free newsletter www.GardenAtoZ.com i		
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Shortest

Crop	family	Amount you want	Space needed	Desi harv date	est	Start	date	Sp	ecial se	eed-starting and plar	nt-finding no	otes
tomato	night- shade	12.5 lb.	12.5 ft.							last frost 5/12, first freeze 10/9, 1.5" to 3 problems		
		8	B plants 🦣	ual edib	les: Mich	igan (SF: av	a 185-195 da	v growin	g coacon ave	lact frost 5/12 first freeze 10/9 15" to 3	" rain per month)	
				family	in-	<u>crop</u> - fall	plants x	days to harvest	given	problems	ornam. relatives	
			peas	legun	doors 4/1	crop 4/1 - 5/15	rows 1" x 8"	70	length 5 lb/ 25'	mildew, wilt, pea curculio	sweet pea, locust	
			beans			5/10 7/4 4/15	2" x 24"	55 70	30 lb/ 25' pole, more 20 lb/ 10'	leaf spot, aphids, bean beetle flea beetle (leaf, early), aphids,	tree, baptisia, true clover, peanut kale, collards, rock	
			cauliflower cabbage	ard	4/1	4/15 7/1 4/15	12-18" x	75	15 lb/ 10'	cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	cress, candy tuft, money plant,	
			Brusls sprou radish turnip lf, ro	n n		6/20 1, Aug	24" 1" x 12" 2" x 18"	90 30 30, 60	7 lb/ 10' bunch/1'	clubroot flea beetle	kohlrabi	
			lettuce, leaf	daisy	4/15	4/15 3/10	4" x 12"	45	5 lb/ 10'	flea beetle, cabbage maggot aphids, slugs, cutworm	daisy, aster, Joe	
			-head spinach squash	goosefoot			12" x 18" 3 x 18" 36" x 60"	50	1 head / 1' 10 lb / 25' 10 lb / 10'	aphids, harlequin bug squash bug, squash vine borer,	Pye, Liatris, many beets, chard wild cucumber	
			cuke/zucch pumpkin waterm/cai		5/10	5/20 - 6/15 5/20 - 6/15	x 48" x 60"	60	15 lb/ 10' 50 lb./ 50'	mildew, cucumber mosaic, wilt, scab, cucumber beetle	wha cacamber	
			tomato	nt g	5/15	6/10 5/15 - 6/10	18" x 36"	80	10 lb/ 25' 10 lb/ 10'	anthracnose, leaf spot verticillium & fusarium wilt,	petunia, nicotiana,	
			pepper eggplant potato	night- shade	5/15	5/20 - 6/15 5/20 - 6/1 4/15 - 6/1	18" x 30" 18" x 30" 12" x 30"	70	6 lb/ 10' 10 lb/ 10' 10 lb/ 10'	nematodes, tobacco mosaic virus (V, F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato beetle, spider mite	nierembergia, datura	
			carrot	umbel		4/20 - 7/1 4/20	2" x 15" 12"	65 90	10 lb/ 10' 1 head	parsley worm (black swallowtail btrfly)	parsley, Qu Ann Lc, dill, celery, bishops weed	
			sweet potate	glory		6/1		115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink bugs	morning glory	
			okra corn	mallow grass		5/20 5/10 - 6/20	12" x 36" 10" x 30"			Japanese beetle corn earworm, borer	hibiscus, hollyhock grasses	
	Col. 2	1 lb. spinach = 1 x-large bag;										om Pontiac Farm Mkt
	Family Separate family	1 x-large bag; 1/4 lb. string beans/serving;										
	members w/space and years!	1 big head broccoli 1/2 lb.								Food fr 2009, 2013, Janet Macunovich and Stever ree newsletter www.GardenAtoZ.com ir		
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Crop	family	Amount you want	Space needed	Desi harv date	rest	Start	t date	Sp	ecial se	eed-starting and pla	nt-finding n	otes
tomato	night- shade	12.5 lb.	12.5 ft.									
		8	3 plants =	nual edib	oles: Mic	higan (SF: av	re 185-195 da	av growin	ng season ave	a. last frost 5/12, first freeze 10/9, 1.5" to 3	3" rain per month)	
				family	start seed	set out/sow, for summer	spacing between	days to harvest	yield per	problems problems	ornam. relatives	
			\parallel		in- doors	crop - fall crop	plants x rows		given length			
			peas beans	legume	4/1 5/1	4/1 - 5/15 5/10 7/4	1" x 8" 2" x 24"	70 55	5 lb/ 25' 30 lb/ 25'	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true	
			broccoli cauliflower		4/ 15	4/15 7/1	12" x 24"	70	pole, more 20 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot	kale, collards, rock cress, candy tuft,	
			cabbage Brusls sprot	Ę 🔵	4/1	$\frac{4/15}{6/20}$	12-18" x 24"	75 90	15 lb/ 10' 7 lb/ 10'	(roots, summer) aphids, slugs,	money plant, kohlrabi	
			radish turnip lf, roo	ot Si		4/1, Aug 4/15	1" x 12" 2" x 18"	30 30, 60	bunch/1'	flea beetle		
			lettuce, leaf		4/15	<u>15</u> - 8/10	4" x 12"	45	5 lb/ 10'	flea beetle, cabbage maggot aphids, slugs, cutworm	daisy, aster, Joe	
			-head spinach	goosefoot		<u>4/1</u> - 8/1 <u>4/1</u> 15	12" x 18" 3 x 18"	50	1 head / 1' 10 lb / 25'	aphids, harlequin bug	Pye, <i>Liatris</i> , many beets, chard	
			squash cuke/zucch	i tiq	5/15 5/10		36" x 60" 2" x 48" " x 60"	60	10 lb/ 10' 15 lb/ 10'	squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab, cucumber beetle	wild cucumber	
			pumpkin waterm/car	nt g	5/15 5/15	5/20 - 6/15 6/10 5/15 - 6/10	x 48"	90	50 lb./ 50' 10 lb/ 25' 10 lb/ 10'		petunia, nicotiana,	
			tomato pepper eggplant	 1	5/15	5/20 - 6/15 5/20 - 6/1	28" x 30"	75	6 lb/ 10' 10 lb/ 10'	nematodes, tobacco mosaic virus (V, F, N, T), early blight, cuc. mosaic, leaf	nierembergia,	
			potato	night- shade	3/13	4/15-6/1	12" x 30"	90	10 lb/ 10'	spot, fruitworm, hornworm, potato beetle, spider mite	uatara	
			carrot	umbel	4/1	4/20 - 7	2" x 15" 12"	65 90	10 lb/ 10' 1 head	parsley worm (black swallowtail btrfly)	parsley, Qu Ann Lc, dill, celery, bishops weed	
			sweet potate	glory		6/	12" x 30"		10 lb/ 10'	wilt, nematodes, scurf, pox, stink bugs	morning glory	
			okra corn	mallow grass	5/10	/20 <u>5/10</u> - 6/20	12" x 36" 10" x 30"		10 lb/ 10' 5 doz/ 50'	Japanese beetle corn earworm, borer	hibiscus, hollyhock grasses	
	Col. 2	1 lb. spinach =	+									om Pontiac Farm Mkt.
	Family	1 x-large bag;			1							ont i ontiac i anni ivike.
	Separate family	1/4 lb. string beans/serving;										
	members	1 big head										
	w/space	broccoli 1/2 lb.								Food fi ©2009, 2013, Janet Macunovich and Steve free newsletter www.GardenAtoZ.com i		
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Crop	family	Amount you want	Spa nee		Desi: harv date		Start	date	Sp	ecial se	eed-starting and plan	nt-finding not	tes
tomato	night- shade	12.5 lb.											
		8	3 pla	ints	امائل مائل	las Mis	ione (CF	. 105 105 1			last frost 5/12, first freeze 10/9, 1.5" to 3 problems	DII	
			, P.,	ann	family	start	set out/sow,	spacing	days to	yield per	problems	ornam. relatives	
				1		seed in-		between plants x	harvest				
			H			doors	crop - fall crop	rows		given length			
				peas beans	legume	4/1 5/1	<u>4/1</u> - <u>5/15</u>	1" x 8" 2" x 24"	70 55	5 lb/ 25' 30 lb/ 25'	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true	
				Dealis		3/1	4/1 - 5/15 5/10 7/4		33	pole, more	lear spot, aprilus, bearr beetle	clover, peanut	
				broccoli		4/15	4/15 7/1	12" x 24"	70	20 lb/ 10'	flea beetle (leaf, early), aphids,	kale, collards, rock	
			H	cauliflower cabbage	멸	4/1	7/1 4/15	12-18" x	75	15 lb/ 10'	cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	cress, candy tuft, money plant,	
				Brusls sprout	mustard		6/20	24"	90	7 lb/ 10'	clubroot	money plant, kohlrabi	
				radish turnip lf, root	- Ē		4/1, Aug 4/15	1" x 12" 2" x 18"	30 30, 60	bunch/1'	flea beetle		
				_						- 11 / 4 O	flea beetle, cabbage maggot		
			4	lettuce, leaf -head	daisy	4/15	4/15 - 8/10 4/15 - 8/1		45 70	5 lb/ 10' 1 head/ 1'	aphids, slugs, cutworm	daisy, aster, Joe Pye, <i>Liatris</i> , many	
				spinach	goosefoot		<u>4/1</u> - 6/15	3 x 18"	50	10 lb/ 25'	aphids, harlequin bug	beets, chard	
				squash cuke/zucchi	- pit	5/15 5/10	6/15 5/20 - 6/15	36" x 60"		10 lb/ 10' 15 lb/ 10'	squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab,	wild cucumber	
				pumpkin	_ nor		<u>5/20</u> - 6/15	36" x 60"	90	50 lb./ 50'	cucumber beetle		
			Ш	waterm/cant tomato	5	5/15	6/10 5/15 - 6/10	30" x 48"	90	10 lb/ 25' 10 lb/ 10'	anthracnose, leaf spot verticillium & fusarium wilt,	petunia, nicotiana,	
				pepper	_	5/15	5/20 - 6/15	18" x 30"	75	6 lb/ 10'	nematodes, tobacco mosaic virus (V,	nierembergia,	
				eggplant	night- shade	5/15	5/20 - 6/1	18" x 30"		10 lb/ 10' 10 lb/ 10'	F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato	datura	
				potato			4/15 - 6/1	12" x 30"			beetle, spider mite		
				carrot	umbel	4/1	4/20 - 7/1 4/20	2" x 15" 12"	65 90	10 lb/ 10' 1 head	parsley worm (black swallowtail btrfly)	parsley, Qu Ann Lc, dill, celery, bishops weed	
			Π	celery sweet potato	morning		6/1		115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink	morning glory	
				alma	glory		5/20	12" x 36"	<i>(</i> 0	10 lb/ 10'	bugs Japanese beetle	hibiana hallahada	
				okra corn	grass	5/10	5/10 - 6/20	12 x 36 10" x 30"		5 doz/ 50'	corn earworm, borer	hibiscus, hollyhock grasses	
	Col. 2	1 lb. spinach =	Ħ										om Pontiac Farm Mkt.
	Family	1 x-large bag;											Total I official I difficial ivinti
	Separate	1/4 lb. string											
	family	beans/serving;											
	members	1 big head											
											Food fr	om the Garden Page 8	
	w/space	broccoli 1/2 lb.								©	2009, 2013, Janet Macunovich and Steve	n Nikkila 248-681-7850	
	and years!		Ц						(zuestions or f	ree newsletter www.GardenAtoZ.com i	nio@GardenAtoZ.com	
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		↑ 73											

Crop	family	Amount you want	Space needed	Desi harv date	est	Start	date	Spe	ecial se	eed-starting and plai	nt-finding no	tes
tomato	night- shade		12.5 ft.	1								
		8	Bplants "	mual edib	es Mich	igan (SF: av	e 185-195 da	v growing	season ave	last frost 5/12, first freeze 10/9, 1.5" to 3 problems	" rain per month)	
				family	in-	crop - fall	plants x	days to harvest	given	problems	ornam. relatives	
			peas beans broccoli	legume	5/1	crop 4/1 - 5/15 5/10 7/4 4/15	rows 1" x 8" 2" x 24" 12" x 24"	70 55 70	length 5 lb/ 25' 30 lb/ 25' pole, more 20 lb/ 10'	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true clover, peanut kale, collards, rock	
			cauliflower cabbage Brusls spro	P.	4/1	7/1 4/15 6/20	12-18" x 24"	75 90	15 lb/ 10' 7 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot (roots, summer) aphids, slugs, clubroot	cress, candy tuft, money plant, kohlrabi	
			radish turnip lf, ro lettuce, leaf	ot		4/1, Aug 4/15 4/15 - 8/10		30 30, 60 45	bunch/1' 5 lb/ 10'	flea beetle flea beetle, cabbage maggot aphids, slugs, cutworm	daisy, aster, Joe	
			-head spinach squash cuke/zucch	goosefoot i t	5/10	4/15 - 8/1 4/1 - 6/15 6/15 5/20 - 6/15	3 x 18" 36" x 60" 12" x 48"	60	1 head / 1' 10 lb / 25' 10 lb / 10' 15 lb / 10'	aphids, harlequin bug squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab,	Pye, Liatris, many beets, chard wild cucumber	
			pumpkin waterm/ca tomato pepper		5/15 5/15 5/15	5/20 - 6/15 6/10 5/15 - 6/10 5/20 - 6/15	30" x 48" 18" x 36" 18" x 30"	90 80 75	50 lb./ 50' 10 lb/ 25' 10 lb/ 10' 6 lb/ 10'	cucumber beetle anthracnose, leaf spot verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V,	petunia, nicotiana, nierembergia,	
			eggplant potato carrot	night-	4/1	5/20 - 6/1 4/15 - 6/1 4/20 - 7/1	18" x 30" 12" x 30" 2" x 15"	90 65	10 lb/ 10' 10 lb/ 10' 10 lb/ 10'	F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato beetle, spider mite parsley worm (black swallowtail	datura parsley, Qu Ann Lc, dill, celery, bishops weed	
			celery sweet potat	glory		4/20 6/1		90 115	1 head 10 lb/10'	btrfly) wilt, nematodes, scurf, pox, stink bugs	morning glory	
			okra corn	mallow grass	5/10	5/20 5/10 - 6/20	12" x 36" 10" x 30"		10 lb/ 10' 5 doz/ 50'	Japanese beetle corn earworm, borer	hibiscus, hollyhock grasses	
	Col. 2 Family Separate family	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving;										om Pontiac Farm Mkt.
	members w/space and years!	1 big head broccoli 1/2 lb.		I	1 1		I	(Food fr 22009, 2013, Janet Macunovich and Stever ree newsletter www.GardenAtoZ.com i		

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Crop	family	Amount you want	Space needed	Desi harv date		Start	date	Sp	ecial se	eed-starting and plan	nt-finding no	otes
tomato	night- shade	12.5 lb.										
		8	plants -	nnual edib	es: Micł	nigan (SE: av	e.185-195 da	y growin	g season, ave.	last frost 5/12, first freeze 10/9, 1.5" to 3	3" rain per month)	
				family	start seed in- doors	set out/sow, for <u>summer</u> <u>crop</u> - fall crop	spacing between plants x rows	days to harvest	yield per	problems	ornam. relatives	
			peas beans broccoli	legume	4/1 5/1	4/1 - 5/15 5/10 7/4 4/15	1" x 8" 2" x 24"	70 55 70	5 lb/ 25' 30 lb/ 25' pole, more 20 lb/ 10'	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true clover, peanut kale, collards, rock	
			cauliflower cabbage Brusls spro	PI PI		7/1 <u>4/15</u> 6/20	12-18" x 24"	75 90	15 lb/ 10' 7 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot (roots, summer) aphids, slugs, clubroot	cress, candy tuft, money plant, kohlrabi	
			radish turnip lf, ro	ot	4/15	4/1, Aug 4/15 4/15 - 8/10	1" x 12" 2" x 18" 4" x 12"	30 30, 60 45	bunch/1'	flea beetle flea beetle, cabbage maggot aphids, slugs, cutworm	daisy, aster, Joe	
			-head spinach squash cuke/zucc pumpkin	<u> </u>	5/15 5/10	6/15 5/20 - 6/15 5/20 - 6/15	3 x 18" 36" x 60" 12" x 48" 36" x 60"	60 90	1 head / 1' 10 lb / 25' 10 lb / 10' 15 lb / 10' 50 lb / 50'	aphids, harlequin bug squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab, cucumber beetle	Pye, <i>Liatris</i> , many beets, chard wild cucumber	
			waterm/ca tomato pepper eggplant potato	night- c	5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15 5/20 - 6/1 4/15 - 6/1		80 75 70	10 lb/ 25' 10 lb/ 10' 6 lb/ 10' 10 lb/ 10' 10 lb/ 10'	anthracnose, leaf spot verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V, F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato	petunia, nicotiana, nierembergia, datura	
			carrot celery sweet pota	umbel		4/20 - 7/1 4/20 6/1	2" x 15" 12" 12" x 30"	65 90	10 lb/ 10' 1 head 10 lb/ 10'	beetle, spider mite parsley worm (black swallowtail btrfly) wilt, nematodes, scurf, pox, stink	parsley, Qu Ann Lc, dill, celery, bishops weed morning glory	
			okra corn	glory mallow grass	5/10	5/20 5/10 - 6/20	12" x 36"	60	10 lb/ 10' 5 doz/ 50'	bugs Japanese beetle corn earworm, borer	hibiscus, hollyhock grasses	
	Col. 2 Family Separate family	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving;										om Pontiac Farm Mkt.
	members w/space and years!	1 big head broccoli 1/2 lb.					l	(Food fr 2009, 2013, Janet Macunovich and Stever ree newsletter www.GardenAtoZ.com i		
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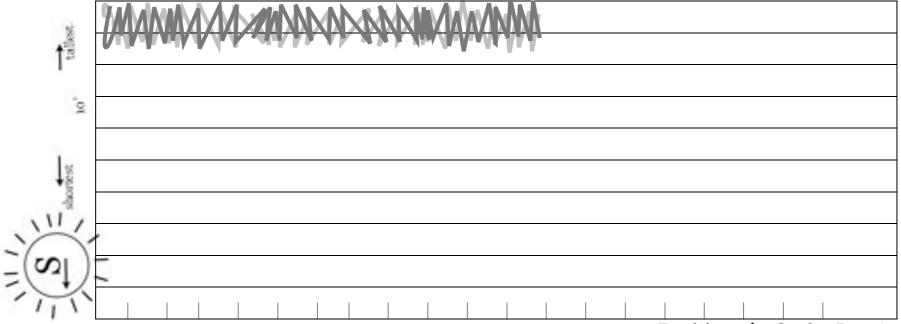


	Amount you want	Space needed	Desi harv date	est	Stari	t date	Spe	eciai se	eed-starting and plar	it-iinaing no	otes
night- shade	12.5 lb.	12.5 ft.									
		⊺8 plants					-				
			.ual edib								
		crop	family	seed in-	for <u>summer</u> <u>crop</u> - fall	between plants x	days to harvest	row of given	problems	ornam. relatives	
		peas beans	legume	4/1 5/1	<u>4/1</u> - <u>5/15</u> <u>5/10</u>	1" x 8" 2" x 24"	70 55	5 lb/ 25' 30 lb/ 25'	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true clover, peanut	
		broccoli cauliflower cabbage	p ₂	4/15	4/15 7/1	12" x 24"		20 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	kale, collards, rock cress, candy tuft, money plant,	
		Brusls sprou	musta		6/20 4/1, Aug 4/15	24" 1" x 12" 2" x 18"	90 30 30, 60	7 lb/ 10' bunch/1'	clubroot flea beetle	kohlrabi	
		lettuce, leaf -head	daisy	4/15	4/15 - 8/10 4/15 - 8/1	4" x 12" 12" x 18"	45 70	5 lb/ 10' 1 head/ 1'	aphids, slugs, cutworm	daisy, aster, Joe Pve, <i>Liatris</i> , many	
		spinach squash cuke/zucchi		5/15 5/10	<u>4/1</u> - 6/15 6/15 <u>5/20</u> - 6/15	3 x 18" 36" x 60" 12" x 48"	50 90 60	10 lb/ 25' 10 lb/ 10' 15 lb/ 10'	aphids, harlequin bug squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab,	beets, chard wild cucumber	
		tomato pepper	_	5/15 5/15 5/15	6/10 5/15 - 6/10	30" x 48" 18" x 36"	90 80	10 lb/ 25' 10 lb/ 10' 6 lb/ 10'	anthracnose, leaf spot verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V,	petunia, nicotiana, nierembergia,	
		eggplant potato		5/15	5/20 - 6/1 4/15 - 6/1	12" x 30"	90	10 lb/ 10' 10 lb/ 10'	spot, fruitworm, hornworm, potato beetle, spider mite		
		celery	morning		4/20 4/20 6/1	12"	90	10 lb/ 10 1 head 10 lb/ 10'	btrfly) wilt, nematodes, scurf, pox, stink	parsiey, Qu Ann Lc, dill, celery, bishops weed morning glory	
		okra	mallow		5/20			10 lb/ 10'	Japanese beetle	hibiscus, hollyhock	
		corn	grass	5/10	5/10 - 6/20	10" x 30"	80	5 doz/ 50'	corn earworm, borer	grasses	
Col. 2 Family Separate family	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving;										om Pontiac Farm Mk
members w/space and years!	1 big head broccoli 1/2 lb.			l	I	I			2009, 2013, Janet Macunovich and Stever	n Nikkila 248-681-7850	
	Col. 2 Family Separate family members w/space	right-shade 12.5 lb. Col. 2 Family Separate family family members w/space 12.5 lb. 12.5 lb.	night-shade 12.5 lb. 12.5 ft. 8 plants crop peas beans broccoli cauliflower cabbage Brusls sprout radish turnip lf, root lettuce, leaf -head spinach squash cuke/zucchi pumpkin watern/cant tomato pepper eggplant potato carrot celery sweet potato okra com Col. 2 Family Separate family family members w/space 1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	night-shade 12.5 lb. 12.5 ft. 8 plants roop family peas legume beans broccoli cauliflower cabbage Brusls sprout radish turnip lf, root lettuce, leaf -head spinach squash cuke/zucchi pumpkin waterm/cant tomato pepper eggplant tomato pepper eggplant potato 2 carrot celery sweet potato okra mallow corn grass Col. 2 Family Separate family Separate family members broccoli 1/2 lb. 1 lb. spinach = 1 x-large bag; spinach squash carrot celery sweet potato okra mallow corn grass	night-shade 12.5 lb. 12.5 ft. 8 plants Crop family Start Seed Indicated In	Night-shade 12.5 lb. 12.5 ft.	Night-shade 12.5 lb. 12.5 ft.	Night-shade 12.5 lb. 12.5 ft.	Night-shade 12.5 lb. 12.5 ft.	Table	12.5 lb. 12.5 lb.

family	Amount you want	Space needed	harv	est	Start	t date	Spo	ecial se	eed-starting and plan	nt-finding no	otes
night- shade	12.5 lb.	12.5 ft.	7,	/10							
		& piants									
			.ual edib	les: Mic	higan (SE: av						
		crop	family	seed in-	for <u>summer</u> <u>crop</u> - fall	between plants x	days to harvest	row of given	problems	ornam. relatives	
		peas beans	legume	4/1 5/1	4/1 - 5/15 5/10 7/4	1" x 8" 2" x 24"	70 55	5 lb/ 25' 30 lb/ 25' pole, more	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true clover, peanut	
		broccoli cauliflower cabbage	p ₂	4/15	4/15 7/1	12" x 24" 12-18" x	75	20 lb/ 10' 15 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	kale, collards, rock cress, candy tuft, money plant,	
		Brusls sprou radish	musta		6/20 4/1, Aug 4/15	24" 1" x 12" 2" x 18"	90 30 30, 60	7 lb/ 10' bunch/1'	clubroot flea beetle	kohlrabi	
		lettuce, leaf -head	daisy	4/15	<u>4/15</u> - 8/10 <u>4/15</u> - 8/1			5 lb/ 10' 1 head/ 1'	aphids, slugs, cutworm	daisy, aster, Joe Pye, <i>Liatris</i> , many	
				5/15 5/10	6/15 5/20 - 6/15	36" x 60" 12" x 48"	90 60	10 lb/ 25' 10 lb/ 10' 15 lb/ 10' 50 lb./ 50'	aphids, harlequin bug squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab, cucumber beetle	beets, chard wild cucumber	
		waterm/can tomato pepper		5/15 5/15 5/15	6/10 5/15 - 6/10 5/20 - 6/15	30" x 48" 18" x 36" 18" x 30"	90 80 75	10 lb/ 25' 10 lb/ 10' 6 lb/ 10'	verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V,	petunia, nicotiana, nierembergia,	
		potato			4/15 - 6/1	12" x 30"	90	10 lb/ 10'	spot, fruitworm, hornworm, potato beetle, spider mite		
		celery	morning		4/20 6/1	12"	90	10 lb/ 10 1 head 10 lb/ 10'	btrfly) wilt, nematodes, scurf, pox, stink	morning glory	
		okra	mallow		5/20			10 lb/ 10'	Japanese beetle	hibiscus, hollyhock	
		corn	grass	5/10	<u>5/10</u> - 6/20	10" x 30"	80	5 doz/ 50'	corn earworm, borer	grasses	
Col. 2 Family Separate family	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving;										om Pontiac Farm Mk
members w/space and years!	1 big head broccoli 1/2 lb.		I	I	I	I	1		2009, 2013, Janet Macunovich and Stever	n Nikkila 248-681-7850	
	night-shade Col. 2 Family Separate family members w/space	right-shade 12.5 lb. Col. 2 Family Separate family members w/space you want 12.5 lb. 12.5 lb.	rop 12.5 lb. 12.5 ft. 8 plants rop peas beans broccoli cauliflower cabbage Brusls sprout radish turnip lf, roo' lettuce, leaf -head spinach squash cuke/zucchi pumpkin waterm/cant tomato pepper eggplant potato carrot celery sweet potato okra com Col. 2 Family 1 x-large bag; Separate family family beans/serving; members w/space location 12.5 ft. 8 plants crop cauliflower cabbage Brusls sprout radish cuke/zucchi pumpkin waterm/cant tomato okra com okra com	night-shade 12.5 lb. 12.5 lb. 8 plants peas legume beans broccoli cauliflower cabbage Brusls sprout radish turnip If, root lettuce, leaf -head spinach squash cuke/zucchi pumpkin waterm/cant tomato pepper eggplant potato peppe	night-shade 12.5 lb. 12.5 ft. 7/10 8 plants Sead in-doors Feat Feat	Night-shade 12.5 lb. 12.5 ft. 7/10 8 plants	Night	Night-shade 12.5 lb. 12.5 ft. 7/10 8 plants 12.5 lb. 12.5 ft. 7/10 8 plants 12.5 lb. 12.5 ft. 7/10 8 plants 12.5 lb. 12.5 lb	Night-shade 12.5 lb. 12.5 ft. 7/10	Night	Night-shade 12.5 lb. 12.5 ft. 7/10 8 plants 1 1 1 1 1 1 1 1 1

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Crop	family	Amount you want	Space needed	Desi harv date	est	Star	t date	Spo	ecial se	ed-starting and plan	nt-finding no	otes
tomato	night- shade	12.5 lb.	12.5 ft.		/10							
			8 plants	· —								
				ual edib						last frost 5/12, first freeze 10/9, 1.5" to 3 problems	rain per month) ornam. relatives	
			crop	family	start seed in-	et out/sow, summer o - fall	between plants x	harvest	yield per row of given	problems	ornani. relatives	
			peas beans	legume	doors 4/1 5/1	2/1 5/15 5/10 7/4	rows 1" x 8" 2" x 24"	70 55	length 5 lb/ 25' 30 lb/ 25' pole, more	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true clover, peanut	
			broccoli cauliflower cabbage	- p	4/15	$\frac{4/15}{7/1}$	12" x 24" 12-18" x	70	20 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	kale, collards, rock cress, candy tuft, money plant,	
			Brusls sproi radish turnip lf, ro	- n	1/1	4/15 6/20 4/1, Aug 4/15	24" 1" x 12" " x 18"	90 30 30, 60	7 lb/ 10' bunch/1'	clubroot flea beetle	kohlrabi	
			lettuce, leaf		4/15	4/15 - 8/10 4/15 - 8/1	4 12" 12 18"	45	5 lb/ 10' 1 head/ 1'	flea beetle, cabbage maggot aphids, slugs, cutworm	daisy, aster, Joe Pye, <i>Liatris</i> , many	
			spinach squash	goosefoot	5/15	<u>4/1</u> - 6/15 6/15	3 x " 36" x "	50 490	10 lb/ 25' 10 lb/ 10'	aphids, harlequin bug squash bug, squash vine borer,	beets, chard wild cucumber	
			cuke/zucch pumpkin waterm/car	p		5/20 - 6/15 5/20 - 6/15 6/10	36" x 30" x 48	60 90 90	15 lb/ 10' 50 lb./ 50' 10 lb/ 25'	mildew, cucumber mosaic, wilt, scab, cucumber beetle anthracnose, leaf spot		
			tomato pepper eggplant	ht	5/15 5/15 5/15	5/15 - 6/10 5/20 - 6/15 5/20 - 6/1	18" x 30" 18" x 30"	75 70	10 lb/ 10' 6 lb/ 10' 10 lb/ 10'	verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V, F, N, T), early blight, cuc. mosaic, leaf	petunia, nicotiana, nierembergia, datura	
			potato	night- shade	4/1	4/15 - 6/1 4/20 - 7/1	12" x 30" 2" x 15"	65	10 lb/ 10' 10 lb/ 10'	spot, fruitworm, hornworm, potato beetle, spider mite parsley worm (black swallowtail	parsley, Qu Ann Lc, dill,	
			celery sweet potat	morning glory		4/20 6/1	12" 12" x 30"	90	1 head 10 lb/ 10'	btrfly) wilt, nematodes, scurf, pox, stink bugs	morning glory	
			okra corn	mallow grass	5/10	5/20 5/10 - 6/20	12" x 36" 10" x 30"		10 lb/ 10' 5 doz/ 50'	Japanese beetle corn earworm, borer	hibiscus, hollyhock grasses	
			Com	grass	3/10	5/10-0/20	10 × 30	30	5 doz/ 50	com car worm, borer	5140303	
	Col. 2 Family Separate family	1 lb. spinach = 1 x-large bag; 1/4 lb. string										om Pontiac Farm Mk
	members w/space and years!	beans/serving; 1 big head broccoli 1/2 lb.								Food fr 2009, 2013, Janet Macunovich and Stever ree newsletter www.GardenAtoZ.com in		
		broccoli 1/2 lb.				8.6.				2009, 2013, Janet Macunovich and Stever ree newsletter www.GardenAtoZ.com ii	n Nikkila 248-681-7850	



night- shade	12.5 lb.	12.5 ft. 8 plants		les: Mil start seed	4/						
		crop	.ual edib	start seed							
		crop		start seed							
		peas	rammy	seed					last frost 5/12, first freeze 10/9, 1.5" to 3'		
		peas		in- doors	r <u>summer</u> c p - fall	spacing between plants x	harvest	yield per row of given length	problems	ornam. relatives	
	1	beans	legume	4/1 5/1	4/1 5/15 5/10 7/4	x 8" x 24"	70 55	5 lb/ 25' 30 lb/ 25' pole, more	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true clover, peanut	
		broccoli cauliflower cabbage	nrd	4/15	4/15 7/1	12- " x	70 75	20 lb/ 10' 15 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	kale, collards, rock cress, candy tuft, money plant,	
		Brusls sprout radish turnip lf, roo	n n		6/20 4/1, Aug 4/15	24" 1" x " " x "	90 30 30, 60	7 lb/ 10' bunch/1'	clubroot flea beetle flea beetle, cabbage maggot	kohlrábi	
		lettuce, leaf -head	daisy	4/15	4/15 - 8/10 4/15 - 8/1	4 1. 12 1	45 70	5 lb/ 10' 1 head/ 1'	aphids, slugs, cutworm	daisy, aster, Joe Pye, <i>Liatris</i> , many	
			goosefoot — ;i	5/15	4/1 - 6/15 6/15 5/20 - 6/15	3 x 36" x 3" 12" x 4	50 90 60	10 lb/ 25' 10 lb/ 10' 15 lb/ 10'	aphids, harlequin bug squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab,	beets, chard wild cucumber	
		waterm/cant tomato	ğ	5/15	6/10 5/15 - 6/10	30" x 48 18" x 36"	80	10 lb/ 25' 10 lb/ 10'	anthracnose, leaf spot verticillium & fusarium wilt,	petunia, nicotiana,	
		eggplant potato	night- shade	5/15	5/20 - 6/1 4/15 - 6/1	18" x 30" 12" x 30"	70 90	10 lb/ 10' 10 lb/ 10'	F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato beetle, spider mite	datura	
		carrot celery sweet potato		4/1	4/20	12"	90	1 head	btrfly)	parsley, Qu Ann Lc, dill, celery, bishops weed morning glory	
		•	glory				60		bugs		
		corn	grass	5/10				5 doz/ 50'	corn earworm, borer	grasses	
Col. 2 Family Separate	1 lb. spinach = 1 x-large bag; 1/4 lb. string										om Pontiac Farm Mkt
members w/space and years!	1 big head broccoli 1/2 lb.	Food from the Garden Page 8 ©2009, 2013, Janet Macunovich and Steven Nikkila 248-681-7850 Questions or free newsletter www.GardenAtoZ.com info@GardenAtoZ.com									
F S fa n w	amily eparate amily nembers v/space	amily 1 x-large bag; eparate 1/4 lb. string beans/serving; nembers 1 big head broccoli 1/2 lb.	squash cuke/zucchi pumpkin waterm/cant tomato pepper eggplant potato carrot celery sweet potato okra com Col. 2	Squash cuke/zucchi pumpkin waterm/cant tomato pepper eggplant potato carrot umbel celery sweet potato glory okra mallow corn grass Col. 2	Squash cuke/zucchi pumpkin waterm/cant tomato pepper eggplant potato celery sweet potato glory sweet potato	Squash Cuke/zucchi Pumpkin Watern/cant tomato pepper eggplant potato potato potato elery elery	Squash Cuke/zucchi E S/15 S/15 S/20 - 6/15 36° x T S/10 S/20 - 6/15 36° x T S/10 S/20 - 6/15 36° x T S/10 S/20 - 6/15 36° x T S/15 S/15 - 6/10 30° x 48 S/15 S/15 - 6/10 18° x 36° S/15 S/15 - 6/10 18° x 30° S/15 S/20 - 6/15 18° x 30° S/20 S/20	Squash Cuke / zucchi pumpkin watern / cant tomato pepper eggplant ½ ½ ½	Squash Cuke/zucchi pumpkin waterm/cant tomato pepper eggplant potato potato	Squash Cuke/zuchi Food free Food f	Squash Cake/zuchi Foliation Foliat

Crop	family	Amount you want	Space needed	Desi harv date	est	Sta	art da	te	Spe	ecial se	eed-starting and plan	nt-finding 1	note	es	
tomato	night- shade	12.5 lb.	12.5 ft.		/10	4	/15								
			8 plants					-]	
			crop	ual edib	start	set out	ow, spaci	ing c	days to	yield per	last frost 5/12, first freeze 10/9, 1.5" to 3 problems	rain per month) ornam. relatives	7		
					in-	crop - f	<u>ier</u> betw plant	ts x	narvest	row of given					
			peas beans	legume	5/1	crop <u>4/1 - 5</u> , <u>5/10</u> 7/4	rows 5 1" x 8 2" x 2	8" 7 24" 5	70 55	length 5 lb/ 25' 30 lb/ 25' pole, more	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true clover, peanut			
			broccoli cauliflower		4/15	4/15 7/1	12" x			20 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot	kale, collards, rock cress, candy tuft,			
			cabbage Brusls sprou	mustard		4/15 6/20	24"		90	15 lb/ 10' 7 lb/ 10'	(roots, summer) aphids, slugs, clubroot	money plant, kohlrabi			
			radish turnip lf, roo	ot É		4/1, Au 4/15	2" x 1		30 30, 60	bunch/1'	flea beetle flea beetle, cabbage maggot				
			lettuce, leaf -head	daisy	4/15	4/15 - 8, 4/15 - 8,	0 4" x 1	12" 4 (18" 7	45 70	5 lb/ 10' 1 head/ 1'	aphids, slugs, cutworm	daisy, aster, Joe Pye, <i>Liatris</i> , many			
			spinach squash	goosefoot		4/1 - 6/1 6/15	3 x 18	8" 5	50 90	10 lb/ 25' 10 lb/ 10'	aphids, harlequin bug squash bug, squash vine borer,	beets, chard wild cucumber			
			cuke/zucch pumpkin	g	5/10	5/20 - 6/ 5/20 - 6/	12" x	(48" 6 (60" 9	60 90	15 lb/ 10' 50 lb./ 50'	mildew, cucumber mosaic, wilt, scab, cucumber beetle				
			waterm/car tomato	nt Î	5/15	6/10 5/15 - 6/	18" x	36" 8	30	10 lb/ 25' 10 lb/ 10'	anthracnose, leaf spot verticillium & fusarium wilt,	petunia, nicotiana,			
			pepper eggplant	night-	5/15	5/20 - 6/ 5/20 - 6/	/ 18" x	30" 7	70	6 lb/ 10' 10 lb/ 10'	nematodes, tobacco mosaic virus (V, F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato	nierembergia, datura			
			potato	umbel		4/15 - 6/ 4/20 - 7/		30" 9 15" 6		10 lb/ 10'	beetle, spider mite parsley worm (black swallowtail	parsley Ou Ann Le dill			
			celery sweet potato			4/20 6/1	12"		90	1 head 10 lb/ 10'	btrfly) wilt, nematodes, scurf, pox, stink	parsley, Qu Ann Lc, dill, celery, bishops weed morning glory	-		
			okra	glory		5/20	12" x	36" 6	50	10 lb/ 10'	bugs Japanese beetle	hibiscus, hollyhock			
			corn	grass	5/10	5/10 - 6/	/2 10" x	30" 8	80	5 doz/ 50'	corn earworm, borer	grasses			
	Col. 2	1 lb. spinach =	See Yield	Ве	1,,	Sec	e <mark> 3:</mark>		Ma	rgaret	Thele, http:/SageA	dviceNurse	ery.	com Pontiac Farm M	1kt.
	Family Separate	1 x-large bag; 1/4 lb. string	col. 7	May l	nable.	Ha dà	est Day	ıs							
	family	beans/serving;		multi		to k	h gest								
	members	1 big head		'	-1 1		6.				Food fi	om the Garden Page 8	3		
	w/space and years!	broccoli 1/2 lb.				#	ants: 4 ks later.		Q		2009, 2013, Janet Macunovich and Steve ree newsletter www.GardenAtoZ.com i	n Nikkila 248-681-7850)		
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Crop	family	Amount you want	Space needed	Desired harvest date	Start da	ate	Spe	ecial se	ed-starting and plai	nt-finding	notes	
tomato	night- shade	12.5 lb.	12.5 ft.		4/15	5	/15	5				
			8 plants			$\overline{}$						
			crop	seed fo	et out ow, pag or <u>sun</u> <u>ier</u> etv	ween nts x	growing days to harvest		last frost 5/12, first freeze 10/9, 1.5" to 3 problems	" rain per month) ornam. relatives		
			peas beans	legume 4/1 <u>4</u>	<u>/1 - 5/5</u> x	8"	70 55	5 lb/ 25' 30 lb/ 25'	mildew, wilt, pea curculio leaf spot, aphids, bean beetle	sweet pea, locust tree, baptisia, true		
			broccoli cauliflower	4/15 4/7	/ <u>15</u> /1		70	pole, more 20 lb/ 10'	flea beetle (leaf, early), aphids, cabbage looper, cabbage maggot	clover, peanut kale, collards, rock cress, candy tuft,		
			cabbage Brusls sprou radish	1t ts 4/1 4/6	/ <u>15</u> /20	- 1	75 90 30	15 lb/ 10' 7 lb/ 10' bunch/1'	(roots, summer) aphids, slugs, clubroot	money plant, kohlrabi		
			turnip lf, roo	ot 1 4	/15 x	18"	30, 60		flea beetle flea beetle, cabbage maggot			
			lettuce, leaf -head spinach	4	<u>/15</u> -8, ":	x 18"	45 70 50	5 lb/ 10' 1 head/ 1' 10 lb/ 25'	aphids, slugs, cutworm aphids, harlequin bug	daisy, aster, Joe Pye, <i>Liatris</i> , many beets, chard		
			squash cuke/zucchi pumpkin	5/15 6 5/10 <u>5</u>	/15 /20 - 6/ /20 - 6/	x 60" x 48" x 60"	90 60 90	10 lb/ 10' 15 lb/ 10' 50 lb./ 50'	squash bug, squash vine borer, mildew, cucumber mosaic, wilt, scab, cucumber beetle	wild cucumber		
			waterm/can tomato	5/15 5	/15 - 6/	x 48" x 36" x 30"	80	10 lb/ 25' 10 lb/ 10' 6 lb/ 10'	anthracnose, leaf spot verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V,	petunia, nicotiana, nierembergia,		
			pepper eggplant potato	± 용 5/15 5	/20 - 6/	x 30" x 30"	70	10 lb/ 10' 10 lb/ 10'	F, N, T), early blight, cuc. mosaic, leaf spot, fruitworm, hornworm, potato beetle, spider mite	datura		
			carrot celery sweet potato	4	/20	x 30"	90	10 lb/ 10' 1 head 10 lb/ 10'	parsley worm (black swallowtail btrfly) wilt, nematodes, scurf, pox, stink	parsley, Qu Ann Lc, dill, celery, bishops weed morning glory		
			okra	glory 5	/20	x 36"	60	10 lb/ 10'	Japanese beetle	hibiscus, hollyhock		
		4.0	corn	,		x 30"			corn earworm, borer	grasses		
	Col. 2 Family	1 lb. spinach = 1 x-large bag;	See Y <i>ield</i> col. 7	Be reasonable.	See 3: Har es		Ma	rgaret	Thele, http://SageA	dviceNurs	ery.com Pontiac Farm Ml	it.
	Separate family	1/4 lb. string beans/serving;		May be multiples.	to hi ye	ys						
	members	1 big head			col. 6;				Food fr	om the Garden Page 8	8	
	w/space and years!	broccoli 1/2 lb.			Plants: 4 wks later	\cdot			2009, 2013, Janet Macunovich and Stever ree newsletter www.GardenAtoZ.com ii	n Nikkila 248-681-7850	50	
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Crop	family	Amount you want	Spa nee		Desi: harv date		Start	date	Sp	ecial se	ed-starting and plar	nt-finding note	es
tomato	night- shade	12.5 lb.	1			/10	44	15 5	/15	5			
			₽ R	lants									7
			5			les Mick	nigan (SE- av	a 185-195 da	v growin	r coscon swa	last frost 5/12, first freeze 10/9, 1.5" to 3	" rain per month)	
				crop	family	start	set out/sow,		days to	yield per	problems	ornam. relatives	
				1		seed	for summer	between	harvest	row of			
			₩			in- doors	<u>crop</u> - fall crop	plants x rows		given length			
				peas	legume	4/1	4/1-5/15	1" x 8"	70	5 lb/ 25'	mildew, wilt, pea curculio	sweet pea, locust	
				beans		5/1	5/10 7/4	2" x 24"	55	30 lb/25' pole, more	leaf spot, aphids, bean beetle	tree, baptisia, true clover, peanut	
				broccoli		4/15	4/15	12" x 24"	70	20 lb/ 10'	flea beetle (leaf, early), aphids,	kale, collards, rock	
			₩	cauliflower cabbage	- g	4/1	7/1 4/15	12-18" x	75	15 lb/ 10'	cabbage looper, cabbage maggot (roots, summer) aphids, slugs,	cress, candy tuft, money plant,	
				Brusls sprou	mustard	7/1	6/20	24"	90	7 lb/ 10'	clubroot	kohlrabi	
				radish	n n		4/1, Aug 4/15	1" x 12" 2" x 18"	30 30, 60	bunch/1'	flea beetle		
				turnip lf, roo)L			2 X 18	30, 60		flea beetle, cabbage maggot		
				lettuce, leaf -head	daisy	4/15	<u>4/15</u> - 8/10 <u>4/15</u> - 8/1	4" x 12" 12" x 18"	45 70	5 lb/ 10' 1 head/ 1'	aphids, slugs, cutworm	daisy, aster, Joe Pye, <i>Liatris</i> , many	
				spinach	goosefoot				50	10 lb / 25'	aphids, harlequin bug	beets, chard	
				squash	rbit	5/15		36" x 60"		10 lb/ 10'	squash bug, squash vine borer,	wild cucumber	
				cuke/zucchi pumpkin	- g	5/10	<u>5/20</u> - 6/15 <u>5/20</u> - 6/15		60 90	15 lb / 10' 50 lb. / 50'	mildew, cucumber mosaic, wilt, scab, cucumber beetle		
				waterm/can	it 8		6/10	30" x 48"	90	10 lb/ 25'	anthracnose, leaf spot		
			 	tomato pepper	_	5/15	5/15 - 6/10 5/20 - 6/15			10 lb/ 10' 6 lb/ 10'	verticillium & fusarium wilt, nematodes, tobacco mosaic virus (V,	petunia, nicotiana, nierembergia,	
				eggplant	+ e	5/15	5/20 - 6/1	18" x 30"		10 lb/ 10'	F, N, T), early blight, cuc. mosaic, leaf	datura	
				potato	night- shade		4/15-6/1	12" x 30"	90	10 lb/ 10'	spot, fruitworm, hornworm, potato beetle, spider mite		
				carrot	umbel	4/1	4/20 - 7/1	2" x 15"	65	10 lb/ 10'	parsley worm (black swallowtail	parsley, Qu Ann Lc, dill,	
			╫╴	celery			4/20	12"	90	1 head	btrfly)	celery, bishops weed	
				sweet potato	morning glory		6/1	12" x 30"	115	10 lb/ 10'	wilt, nematodes, scurf, pox, stink bugs	morning glory	
				okra	mallow	-/40	5/20	12" x 36"		10 lb/ 10'	Japanese beetle	hibiscus, hollyhock	
				corn	grass	5/10	<u>5/10</u> - 6/20	10" x 30"	80	5 doz/ 50'	corn earworm, borer	grasses	
	Col. 2	1 lb coinach	Soc 3	Viold	Be		Coods		1./	#22#6±	The labetter /Casa	dri as Nigger	Ages Donting Forms Mit
		1 lb. spinach =	See]			abla	Seeds Harve		IVI	ırgaret	meie, nttp://sageAc	iviceivursery.	com Pontiac Farm Mkt.
	Family	1 x-large bag;	col. 7			nable.		1					
	Separate	1/4 lb. string			May !		date -						
	family	beans/serving;			multij	ples.	to har						
	members	1 big head		'	'	'	col. 6;		1	1			
	w/space	broccoli 1/2 lb.					Plants	s: 4		(0)	Food fr 2009, 2013, Janet Macunovich and Stever	om the Garden Page 8 Nikkila 248-681-7850	
	and years!						wks la	ater.			ree newsletter www.GardenAtoZ.com in		
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Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft. 8 plants	7/10	4/15 5	/15
peas			o piants			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

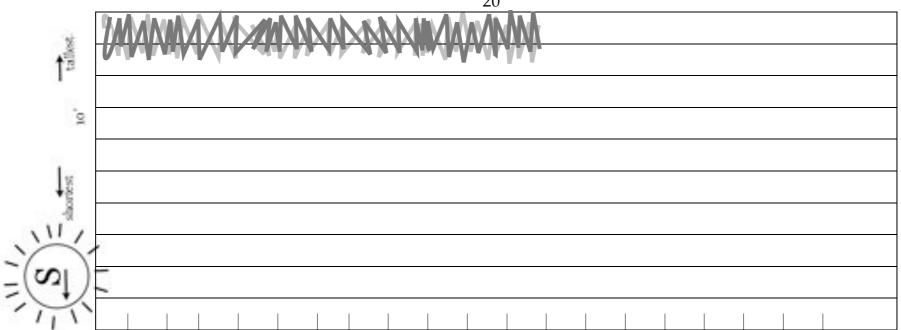
Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft.	7/10	<i>4</i> /15 5	/15
peas			o piants			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

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Crop	family	Amount you want	Space needed	Desired harvest	Start date	Special seed-starting and plant-finding notes
				date		
tomato	night- shade	12.5 lb.	12.5 ft.	7/10	4/15 5	/15
peas			8 plants			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See <i>Yield</i> col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http:/SageAdviceNursery.com Pontiac Farm Mkt.
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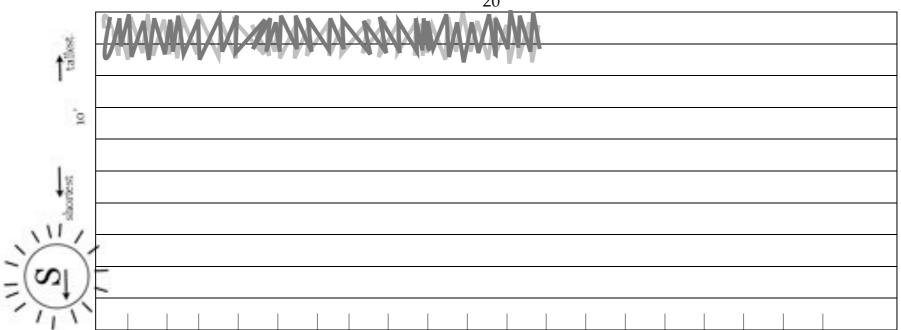
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Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.			4/15 5	/15
peas	legume		8 plants			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.



Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.			4/15 5	/15
peas	legume	1 lb/wk	8 plants			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

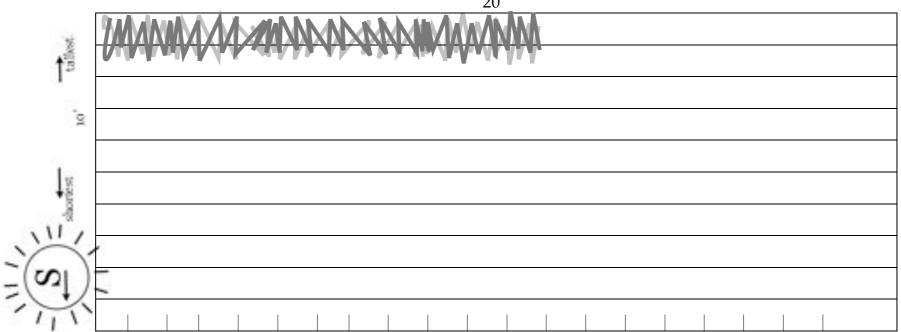
Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft.		4/15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft.			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.



Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft.		4/15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft. 60+ seed			
			Jo. Jeeu			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade		12.5 ft.	7/10	<i>\$</i> /15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft. 60+ seed	6/15)	
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

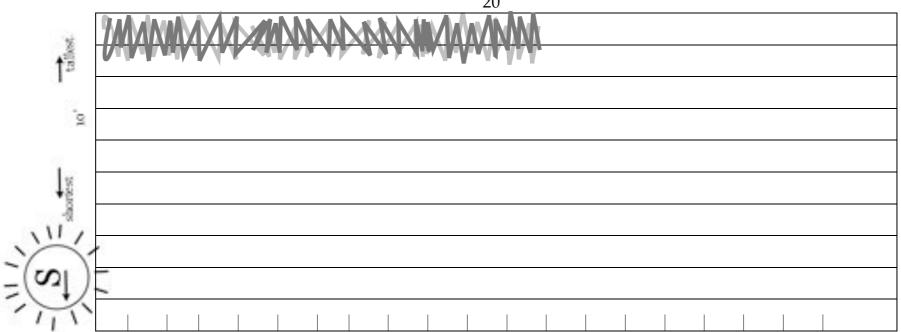
Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade		12.5 ft.		4/15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft. 60+ seed	6/15	4/1	
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.



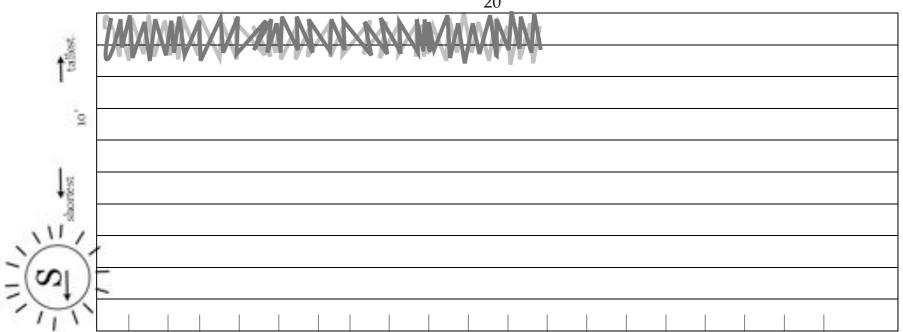
Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft.		4/15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft. 60+ seed	6/15	4/1	
peas	legume	1 lb/wk	5 ft.			
peas	legume	1 lb/wk	5 ft.			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.

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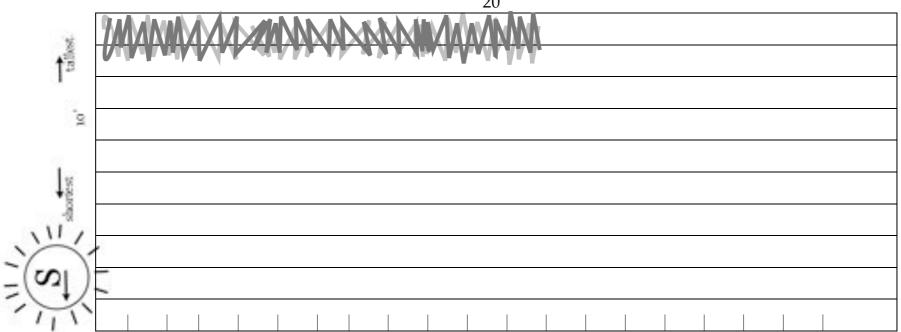
Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft.		4/15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft. 60+ seed	6/15	4/1	
peas	legume	1 lb/wk	5 ft. (6/22		
peas	legume	1 lb/wk	5 ft.			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.



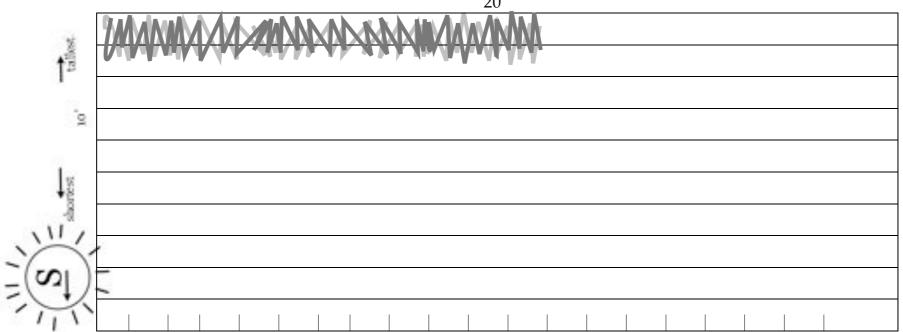
Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft.		4/15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft. 60+ seed	6/15 s	4/1	
peas	legume	1 lb/wk	5 ft.	6/22	4/8	
peas	legume	1 lb/wk	5 ft.			
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.



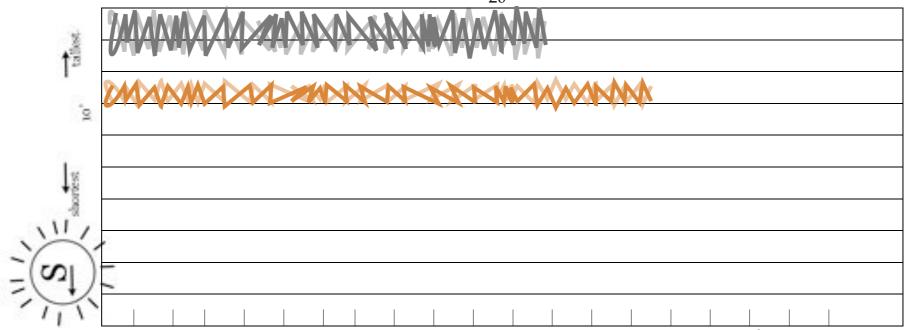
Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft.		4/15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft. 60+ seed	6/15	4/1	
peas	legume	1 lb/wk	5 ft.	6/22	4/8	
peas	legume	1 lb/wk	5 ft. (6/29		
	Col. 2 Family Separate family members w/space and years!	1 lb. spinach = 1 x-large bag; 1/4 lb. string beans/serving; 1 big head broccoli 1/2 lb.	See Yield col. 7	Be reasonable. May be multiples.	Seeds: Harvest date - Days to harvest col. 6; Plants: 4 wks later.	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.



Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
tomato	night- shade	12.5 lb.	12.5 ft.		4/15 5	/15
peas	legume	1 lb/wk	8 plants 5 ft. 60+ seed	6/15 s	4/1	
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Try it: Plan a Garden!

Choose your crops (Assuming a site good for any

- 1. What will you/your family eat?
- 2. Will you graze a little at a time or do you was For a little at a time: Select a variety AND a Serious harvest: Select a few, make sure yo Check the chart: How long a row of each Plants needed to provide listed pounds
- 3. Rotate crops

Have these plants been grown in that grou Check the chart: What family is the plant? Is there room to place a repeat plant where

Choice annu		es: Mi							
crop	family	start seed in-	Crop	family	Amount you want	Space needed	Desired harvest date	Start date	Special seed-starting and plant-finding notes
	laguma	doors							
peas beans	legume	4/1 5/1							
beaus		3/1							
broccoli cauliflower		4/ 15							
cabbage	mustard	4/1							
rusls sprout	ıst								
adish	Ē	\vdash							
urnip lf, root									
ettuce, leaf head	daisy	4/15							
pinach	goosefoot								
quash	=	5/15							
cuke/zucchi	cucurbit	5/10							
umpkin	วัก			_	1		+	+	
raterm/cant	0	5/15							
omato	4	5/15							
epper	J. 61	5/15		Col. 2 Family	1 lb. spinach = 1 x-large bag;	See Yield col. 7	Be reasonable.	Seeds: Harvest	Margaret Thele, http://SageAdviceNursery.com Pontiac Farm Mkt.
ggplant	night- shade	5/15		Separate family	1/4 lb. string	COL. 7	May be	date - Days	
otato		4/1		family members w/space	beans/serving; 1 big head broccoli 1/2 lb.		multiples.	to harvest col. 6; Plants: 4	
arrot elerv	umbel	4/1		and years!	Dioccon 1/2 ib.			wks later.	
weet potato	morning								20'
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									©2009, 2013, Janet Macunovich and Steven Nikkila 248-681-7850
								Ouestions	or free newsletter www.GardenAtoZ.com info@GardenAtoZ.com
		-							

Decide plants or seed

Seed is fun but not always inexpensive as it seems

- If sown where it will grow, you need to thin and to accept some loss
- If sown indoors: \$ can add up as you equip an indoor-growing area to start seed early

Plants: Don't buy until it's time to plant (April 1, April 15, May 15, June 10 -- "set out /sow" column 4)

Choose varieties...

- Varieties that are what you expect and need
- Varieties that are disease resistant

... and healthy plants or seed

- Individual already-started plants should be **stocky**, **sturdy**, **pest free**
- Seed from a reputable source (Burpee, Ball, Cook's, Park's, Seed Savers Exchange, etc.)

Get the bed ready by your earliest plant-out date: _____

- Remove whatever is growing there, roots and all
- Loosen (don't pulverize) soil. Use a fork, not tiller; or tiller just once lightly
- Check how well water drains out of an 18" deep hole; raise bed if takes +12 hours
- Soil test done? Use the prescribed fertilizer. Or add a balanced complete slow release organic

FREE advice and fun by email



What does this have to do with gardening? See this week's "What's Coming Up" issue #82 What's Coming Up: Weekly free advice by email about perennials and much more from the author of the classic guide "Caring for Perennials"

Need to know what to do when in a perennial garden?

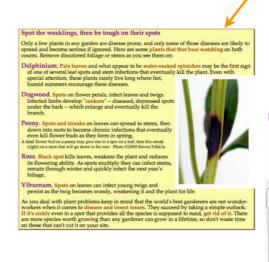
Have a pruning puzzle or worrisome weed?

Have some other garden problem but no sure solution?

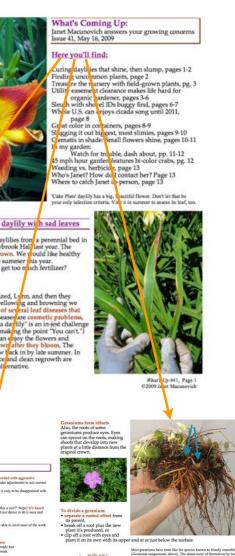
Find the answer in:

What's Coming Up

a free weekly e-newsletter from perennial and gardening expert Janet Macunovich and photographer Steven Nikkila.

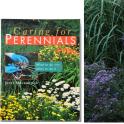






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JanetMacunovich has been planting gardens for others and teaching how-to for 25 years.

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In this section:

The most proper printer.

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This work in our gardens

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- Description of the State of
- Direct proper Spinstagers.

Plan now to avoid vegetable pests

The easiest control is to stay ahead of those buggers!

This page really, really tends a ligarists!

So write looking now at last year's problems -- what happened when -- to echebule what to do when to prevent bookle.

illave a mystery of your own to solve? Fool it best at the Forum for diagnosis - if you are not yet a Forum. member, register as as Member first. It's free and simple.)

Below, clockwise/him top left: Chlery heart rot, exporague berelle, powelery mildew on squash, and damage/him. squash vite bores.









Home

What's Up

Market

About Us

Contact Us

In this section:

The most receipt articles

Main Seatures this season

This week in our gardens

- that gath sain Arwn
- Late planting bulbs
- Hiver block holiday branch
- Early full condown play

Sledge a veg bed.

- Cheening permunials
- lade cold out back
- Cold bills boliday plants
- Padhotes tell taken
- Exercisal shade garden.
- Mildre has many faces
- Facing Transactions
- Dog-Gene Sundream
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- Doe workshops for you
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- Cult to resemblisher willow
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- July Sace Mit

It's what's deep down that counts

Sledging rocks for veggies' sake

Last week we helped dig to make a vegetable garden in a back yard in Guelph, Ostacio. A tough situation with several possible solutions, all followed by our answer, and the resulting Aux. With an August report on how it came out.

The situation

The gardener had stripped off the sod, dug in to check the drainage and become discouraged after finding a rocky layer about ten inches down.

Plants don't mind rocks but when we investigated we found crushed rock compressed into a tight cap (below, rightbetween the two blue lines) over better soil below.

Below: Compare the condition of the top soil (left side of the frame) and what's below the rock (right side). The topsoil is floury -- lacking pores to help it absorb water, drain, and allow air to reach roots. It's grey, meaning it has little organic matter in it to entire soil animals and microorganisms that might push its minerals into 🌉 a better condition.

The soil that's been beneath the rock (right side of the frame) is crumbly so it is be better aeroted and drained. It's dark, an indication of organic matter consent. It is the better stuff for an aspiring organic gurdener to provide to the indigenous soil building organisms?



This is a rocky story but it has a good ending, here being pressed into a layer of composted manual



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Home

What's Up!

Forum.

Market

What's Coming Up 150: Weeds, Vegetable Garden

About Us

Contact Us

In this section:

Read

Main features this season

The most recent articles

This week in our gardens

Green thumbs up, down

Tip cuttings

Mentors' magic

The 45mph garden

Aiming for answers: Hit or miss

Big mistake, big lesson

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Scrabbling in the garden

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Winter

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Weed boiled and beaten

Outpaced by speed demon weeds

Dry leaf mite like a shower

Guelph, Ontario, gardens

Who gives a fig? We do!

Chestnuts, bloom and blight

Tips to help you save the veg and pinch the mum.

Mentor magic: Little kid seeks big weed

Sneak attacks by bamboos & walnuts, and robins as gypsy warriors

Japanese beetles-do we miss them?

Veggie smart water tactics

Up to bindweed's pretty face

Fence fight at community plots

Where to catch Janet and Steven in person (more details in the newsletter!)

Read

William's Scanning Vijp

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Try it: Plan a Garden!

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- 2. Will you graze a little at a time or do you w

For a little at a time: Select a serious harvest: Select a select the Check the chart: How Plants needed to prov

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- If sown indoors: \$ can

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- Check how well water drains out of an 18" deep hole; raise bed if takes +12 hours
- Soil test done? Use the prescribed fertilizer. Or add a balanced complete slow release organic

Choice annu	ıal edibl	es: Micl	higan (SE: ave	e.185-195 da	y growing	g season, ave.	last frost 5/	12, first free	eze 10/9, 1.5	5" to 3'	" rain per month)			
crop	family	start	set out/sow,	spacing	days to	yield per	problems				ornam. relatives			
_		seed	for summer	between	harvest	row of	•							
		in-	crop - fall	plants x		given								
		doors	crop	rows		length								
peas	legume	4/1	4/1-5/15	1" x 8"	70	5 lb/ 25'	mildew, w	ilt, pea cur	culio		sweet pea, locust			
beans		5/1	5/10 7/4	2" x 24"	55	30 lb/ 25'	leaf spot, a	phids, bear	n beetle		tree, baptisia, true			
			7/4			pole, more	•	•			clover, peanut			
broccoli		4/15	4/15	12" x 24"	70	20 lb/ 10'		(leaf, early)			kale, collards, rock			
cauliflower			7/1				cabbage lo	oper, cabba	ige maggot		cress, candy tuft,			
cabbage	stard													
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-						ľ		date						
lettuce, leaf	daisy													
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spinach	goosefoot													
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Plants (Seed): Local garden centers and farmers' markets

Seed: Mail order





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« Back to: Tomato Varieties

Hawaiian Pineapple

Tomato Type: Heirloom

Breed: Open Pollinated

Season: Late

Leaf Type: Normal

Plant Type: Indeterminate

Plant Height: 6 ft.

Fruit Size: 14 oz.

Fruit Shape: Beefsteak

Skin Color: Orange

Flesh Color: Bi-color



Photo by Peter Nitzeche, County Agriculture Agent

Enlarge Image



heirloom tomatoes mini eggplant various kales special onions (the flat one!)

Pontiac/Royal Oak Farmers' Markets Marlene/George Uhlianuk, of Coon Creek Farms Prielipp Farm Korean Veg Don Vanhoutte

greens queen! arugula fancy lettuces



Margaret Thele



greens queen! arugula fancy lettuces



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White

Yellow

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(Lycopersicon lycopersicum) This crop, native to the Americas, has become the most popular garden crop over the last 200 years. We offer an amazing selection of many of the finest old varieties in lots of delicious colors! A few heirloom varieties have plants that don't get quite so large. Called "determinate" varieties, these get to a certain size and then set all their fruit more or less at once. Determinates may be a better choice where tomatoes are grown in a very small garden, or in containers. All varieties are believed to be 'indeterminate' (long vines), unless specified 'determinate' (short vines). The best tasting varieties tend to be indeterminate, as most of ours are unless otherwise noted.







rareseed BAKER CREEK HEIRLOOM SEEDS



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Bread and Salt Tomato

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Arkansas Traveler Tomato

★★★★ 13 Reviews | Write a Review

80 days. A medium-sized pink tomato that is smooth and a beautiful rose color. An excellent variety from Arkansas, tolerant to heat and humidity; crack and disease resistant. Good flavor, an excellent hillbilly favorite.

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Cabbage

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Cauliflower

Celery & Celeriac

Chicory



Home . Shop by Department . Vegetables . Peas

(Pisum sativum) Whether grown for green peas, or for edible pods, garden peas are all grown the same way. They should be planted in earliest spring or even in late winter, as soon as soil can be worked. They require a very mellow soil, as the roots are shallow and not especially vigorous. Plant about 1" deep. Most types require support—a trellis, fence, etc. (Bush types are really short vines, and will support each other when planted fairly close together.) The trick is to get them going early enough to take a crop before late spring weather turns really warm, as heat shuts the plants down. Pick edible podded types frequently, as they are best before the pods become tough.

Sort By Best Sellers . Newest . Alphabetical . Packaging Type . Price .







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product list (click on the item for a full description).

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Ida Gold Tomato OG

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Red Pear Piriform

Product ID: 2768

Superb flavor.

Pear shaped, 7:9 az, fruits with ribbed shoulders. Old fashioned, juicy, sweet flavor, Harvest when shoulders are still grean. From Liguria, Pladmonta, and Abrusso regions of Italy, Indeterminate, Avg. 130,000 seeds/to. Packet: 40 seeds.

Packet	1139	411
100 Seeds	\$9.20	
1,000 Seats	\$13.00	
LOSS Seeds	943.25	
25,000 Seeds	8136.29	













GROWING INFORMATION

Тогнасовы



DETERMINATE

(bush) varieties do not need pruning and may be grown with or without support; fruit ripens within a concentrated time period.

INDETERMINATE

(climbing) varieties should be staked, trellised, or caged, and pruned for best results; fruit ripens over an extended period. Call for additional cultural tips.

VIEW HORE DROWING IMPORPATION IN



Latin Name: Solamum lycoperatuum

Days to Haturdy or Boom: 78

Flatt Cycle: (A) Product Symbols:







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- Bryanels Spreuts CD.
- Sundayla Knok ET
- Caldings DSS.
- · Carrely IIII
- * Cal/Never DS
- Delerial ID:
- * Dallary (7)
- * Chancilli
- Con (00)



Sort Dy Harrier





hgs. 1 2 2 4 5 (0)



ACONCAGLIA PEPPER (HEIRLOOM)

Argentinum HERLDOM This very large papper plant is named after a troustant in Reporting where it. originalist. Plants can grow close to 3 feet in height and probably need to be supported as the huit. set it very heavs, first, can come slose to a fast in length and ripen from green to orange to ned. They have great fluors for heals you at any stage of multurity and are great for sociating when help restore. 20 meets have been



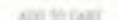
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ADELAIDE CARROT (F1 HYBRID 65 DAYS)

This Dutch hybrid is used exclusively for producing those attractive buby carrets that pervisand: such a premium price at the market. An early, cylinstrical, bright erange, combine carrel that grown In about 3.5/2 inches for harvest. Advisite will retain its remarkable owest flavor for state a while. Line raws in saideds. For picking; and in the thins, 2000 seeds, saw two

\$125









0107-Awres Farms

Declarate for 196, 165 transactive Days and of the bounder, W. Company regions by Turn Hispa's of Hill friends heads, who surpared il threst the Juniob core Lancorne, PA, Bright nd 9-12 manus Bratin rapri sa-bago (rom no implies counded plugs. Delicioses finde a can-r and recent, we effect for each red both mixing One of Show Sound USAN, Arts of Tomorrow's se, belatavoines, 81 den iron roseplast. KEX.800 with the Actor for each! He gir (Frank P. 1) - (Frank Brit) p. You Back! . makin who.



STREET ROW'S GREEKS GREEN

Facedy hardware from Budy Apadd of epotentia, Tenanter, Jahrajacel in SER in 1995 by Bell Minkey of Disease. Whenever, Large Sentimol Propin people supe prouped on minter, however, super-block well's a light of spicinges. Emply to harvest when put to the length and affine green in soline. belancomen, 85-81 Age from transplant, Bolto Dig yould be pay Courseling bulb and



introduced on \$50, by Dale Austin of Walesquee A year student group at at 1080's toll gover due to be reporder distor-Legs 2' mil nesetres with congress tends. Tree predactives, Occumentally a plant with reliew fruit appears to be become an in the best throughout Parket (3) would \$1,50. Survivalence half-and and March



RESTA AUSTEN & RES PEAR



OUTTA BLACK SEA MAN

Barrier Sealings From Marine Dandooks. Seculiphora produce mobion shot howe pirek fruits with after green alsoling. Well marbined finds is attractive when branched and point State Rose Potate for beings. Determinate, 75 slope from transplant. Audio (15 mile) Kraja v sijet mile Rjety 300 mil #11.75



12264-BLOWDEDFROWEN

(also fotale Blenda, South Rast Correspondence obscient to level future Exchange from Convolution Seed Buck. final prides rollow I' frain here in giant district received reset back, Encourage polds and spoly a readed but. River prof. Nost. Sudintetwinate, 75 60 days from transplant, Autor (15 mot/ 43 pp. the rest to by a rest new time of all this error and Francis (10) has seen



1479-BANKSOVINS

(she Red Reardywine). The original Intendirence introduced by Schwerz and Studies in 1994 from seeds their several from activities or or Ohio. Named after Depulsering Caroli in Ulsoriar Connty, Temoglicatio. Large vites produce drug ted \$12 mans. State. Executes figure, they producted Independent, 10 days from receptors ARADO applicas. Solid (\$6 cod.) To pt the man lines i per man tree! Non-Page 45 - Non-Roll Str. 10 to Add 500



SHIT-PRAN'S

technia, Our diverse dura we commonly his 1998, Englises topper or," depty with great room: 18948 for exclude udirectoinina, 76-80 ters form tescapions. N.A. Street, Square, Street, Square, S Parker (this could be use made 250 No. Policial Conference



SUPAL BLACK CHRIST

Opportunit regular heat plants Season The materials in terroris derry testatore. Decky purply Made from bucoting has been rough that they tomplex Indonesticant. \$5.75 Jun Ross Imagine. Period 123 market \$4.00 transfer by the property of



HEZT-BRANCHWINE

DESCRIPTION OF PERSONS taka Fish Boardywine; The density was obtained by tomate albeits for Quanthery of Rig. Xumani Gordona to 1965 Steam Shoots builden Hill whose famile grew in the evar 1000 years. Klage gook burblesh buts to 2 brabab necessarily rack, delightfully selection bulliable figures. Process bul biliage, bulkissississis, 90 skey, both toweplast. 1(35/900) medicine, fune the west fit as the first open to the best open



HARDA CHILLIA'S HELL THES.

Developed in the light 1800's by James 6.3udk of Macroscopic, Printing Francis, introduced to 1910, A great Mondard most-comp nacions: Money should not recent this pame old help York from bolister Indebrigation. 79 39 days from transplant. Poster Car world for any my year by 19-year and 819-29.



0251-BOACK PROM TOTAL

Promps School Deposited by \$50 and officer's apparatus in 1990, black or obtain commissed by 10% as part of the Rening a limition in 1998. Described to you 1986. member as "the aglices, stand delayers benefit if a new grown. Speed profile of more and slightly fathered global engine, are to 1st metros. Spok full flavor, good for diving and country, bedracement, 75 kg. time from its anglast. Actor (po-cold for 49.



ORATO-STANCE KIRCH.

life Red Conca) Francis Kon, Passer, in 1990 by Low Olov Resentings of Sweden, Berlinsch liebt ein a minger constitution of violar terrors and purple and . One may alread little with sufficient eastight and had; Excellent full Phone. Solid Chairest; To RF Jan Stone Exceptant. ASSAULT MEDICAL SWEET CO. HARD, \$10,00 the one \$5.57 - gov over \$10.55 No Dant Suplemen



DOOR-READE PLOW

Research Sendence from send-sentate Martin Patalogia, Oral 2º State we dear making sey with garant said Bests. Problems? by some the procedy-ordered spegitatic expon laskwominure, Bli diers from transplant. s 11,000 ando/cs. Publicipi solić Napo the own Real view and finally The Republic New RETURN



2055A-CHEROKHE PUNISLE.

Introduced by North Catolina VIII months Civing Lathernillan to 1990 from soul officered from J. D. Clean of Tonnecon. Delegady veliced dusts over because from weigh up to 12 easiers. Evilutions reset find. Indeterminate, 75:40 days from transplant, Autor Etc. avoid \$4.50 age out falts - per son fig.3s. AN AND 25 - IS SWING OF



O'07 NA - CHITRAY ROSAY

Wiseur of UKEs 2011 Townson TaxOny. Introduced to 1982 by Minky May Healton of Maryland in 1999, Incondition business of long place-diagnal feater, Mallector sector. space Turns, good tholk or April, Fruits hold well in committed pretrails. Indiscern trans. 74-Mindam Brown transplant, Asker (22 mill) Az 444. ner year have now how herein OF his open LIM top one



044th-Carmonic Ymonguetus. Brought total day U.S. by Hadia Citilatesia

a selfenger of BIR nember Careba Mide Heavy youth of past burflered fruits which yough up to a pound auth-fruits have now persup absolitors that early chair. Delictors hell tomate flyont Tallybrosic yoy, 79-99 illam from transplant. ATTAME weeks have the county for perager made \$5,450 peer made date 55 the New Str. Ste. Bath Jo.

How to Hand Pollinate Squash

Squash is hand pullinated because two varieties within the same species must be prevented from crossing in Sorder to save pure seed. The main Cocurbits species are: C. narino, C. oppropono, C. noschite, and C. pape. Members of the Cocurbitacese family often outcome because they only on insects for pollination because plants are monoections, having separate male and female flowers. During the persons of hand pollination, pollen from a male flower is transferred to a female flower of the same variety. If male and female flowers from the same plant are used for hand pollination, the process is known as selfting. Plants are generally "selfed" when send parity is in question or when selecting for specific traits. When male and female flowers are taken from different plant of the same variety, this is referred to as silking, and results in a greater degree of generic diversity.



O l'Affrecentate male and female blossome - female blossome tright six stop a small, tennamer frait lovany), while male blossome are negativel only so a tenight term (above).



The next morning, after the dow law deled, pick the mule theree with an much storm as possible. Remove the flower from the mule flower so two are left with a "pointbrauls." Next, punch off the penalt for the female flower just below where it is sired. Hold the penaltiess made flower by its storm like a brook and gently rolls policy storm each section of the stigma of the female flower. Work possible to been do not intention with the rolling

Identify blossoms that are about to open, they will legic to flush with solor along the seams and very sip. The up of six blossom may begin to break apart. The enabering flower also becomes slightly puller and solar to the touch that a flower that is will grow and two immenses. Flowers that have already opened are wilted and should not be seed. Soone for flowers in the observoors, and find three male flowers for every bonals flower. The females or tind abort and the males are woled with making rape.



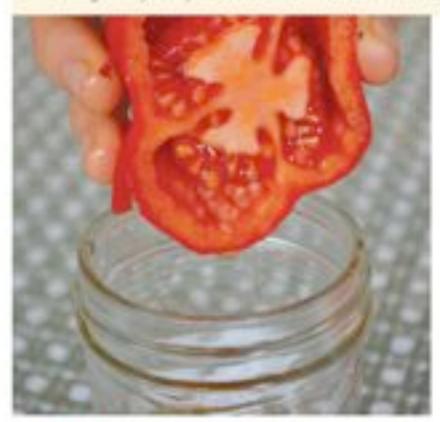
Type the female flower closed and tie a market around its number, a piece of yars or plantic surveyor's ribbon. Choose what information is important to write on this flagging false, turiery, etc.). Constitute to mountain the tuccess of your first in it grows and mattures.

For more and saving resources go to sunharrowing substation



How to Save Tomato Seeds

Persators are a great way for beginner seed sanges to get started. They are good for beginners for these masons you can harvest them for seed at the same time you harvest them for eating; they don't easily cross-pollinate, and you only need to some seed from fruits on a few different plants. Of course there are exceptions to every guideline, so take care to note if there is any change from your to your. Harnest seed from the healthcort and best fruits. Here are a fine tips for processing your tomato seed:



Cut tomators open-our variety at a time-and aqueenthe puly, jusce, and sends into a glass or plastic containers.



Viable torusto seeds will sink to the bottom of the container. Poor off pulpy esistene on top, and then

Set the containers saide to ferment, this breaks down the gelatinous couting on the sord that prevents it from germinating. Fermentation can hoppen in 24 hours to 4 days. during this time a layer of mold may form across the top.



Spread the seeds out thinly on surface to dry. Any substrate To help them dry as quickly as possible will work coffee filter, paper plate, glass or ceromic plate, or was paper. It is best to dry sends out of direct waslight. Drying could take up to 4 weeks.

For more seed saving resources go to seedsevers.org education



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ORGI-BLACK ROOM

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THE R. P. LEWIS CO., LANSING.

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