



Garden Planning

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Benton County Master Gardener

Goals

- Introduction to growing in the Willamette Valley
- Discuss how to make a garden plan
 - Plant spacing and layout
- Discuss plant families
- Discuss succession planting and gardening throughout the year

Gardening in the Willamette Valley



“Yes, it rains a lot - except for those months when it dries up altogether.”

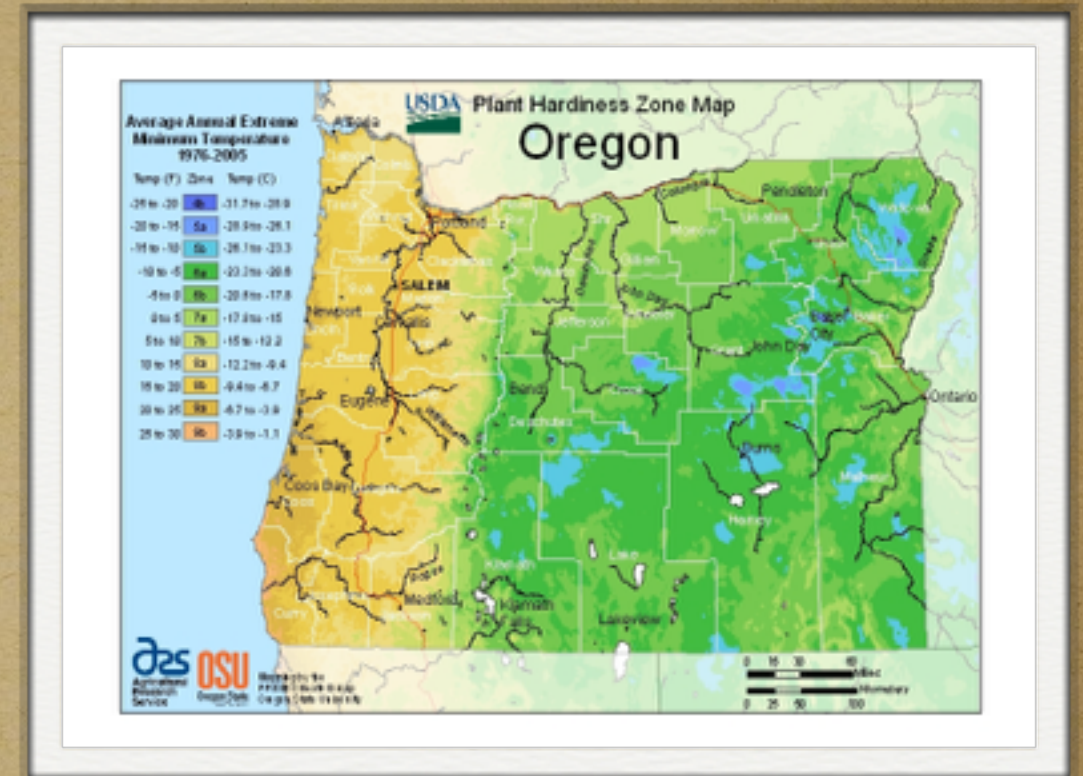
Lorene Edwards Folkner

What is a maritime climate?

- A maritime climate is influenced by the ocean
- Usually has mild winters and cool summers
- This historical trend is less reliable with global warming



- Growing season from 150 to 250 days
- Characterized by warm days and cool nights
- Currently listed as Zone 8b
- Last frost date April 22
- First frost date October 19



April 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22 ★
23	24	25	26	27	28	29
30						

www.a-printable-calendar.com

Key Considerations for any Garden Plan



- Sun
- Soil
- Water
- Plant or Seed

Gardens Need Sunlight

- Six hours minimum
- Away from shade trees and large shrubs
- Southern exposure is best



Garden Placement and Soil

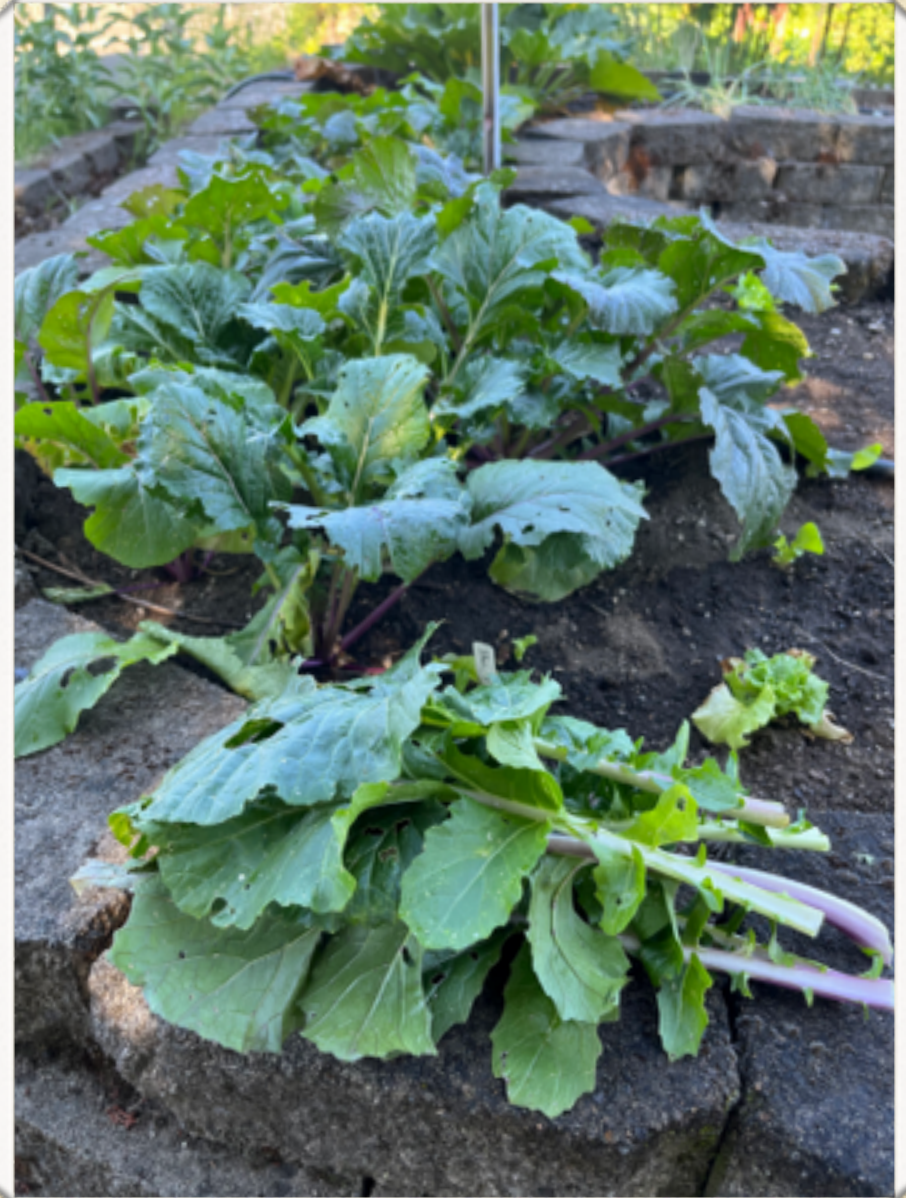


- Emily Herb BCMG will be talking about this next week
- Gardens should be placed where they are easy to visit and tend
- They do best in open spaces with good light and air flow
- Soil should be loose and well draining
- Weeds and worms are signs of life



What to Grow

- Grow what you and your family enjoy eating
- Pick varieties that grow well in our area
- Choose based on your space and time
- Consider adding in flowers
- Be realistic





TERRITORIAL SEED COMPANY

Spring Gardening Chart



TERRITORIAL SEED COMPANY

Winter Gardening Chart



Vegetable	January	February	March	April	May	June	Soil Temp for Germ	Seed Depth	Thin Plants/Plant Spacing	Row Spacing	Harvest
Artichoke							65-75°F	1/4"	3-5"	4-6"	June-July (2 nd year)
Arugula							50-70°F	1/4-1/2"	6-12"	16-18"	April-June
Asparagus Seed							65-80°F	1/4"	10-15"	3-6"	April
Asparagus Crowns								4-6"	10-15"	3-6"	April (3 rd year)
Beans							60-85°F	1"	4-18"	18-36"	June-August
Beans, Fava							45-65°F	1-2"	3-6"	12-30"	June-August
Beets							50-75°F	1/2"	3-4"	12-16"	June onward
Broccoli							55-75°F	1/4"	12-24"	18-36"	June onward
Brussels Sprouts							55-75°F	1/4"	24"	18-36"	Sept.-February
Cabbage							55-75°F	1/4"	18-24"	2-4"	June-August
Carrots							45-85°F	1/4"	1-3"	9-16"	June onward
Cauliflower							55-75°F	1/4"	12-24"	18-36"	June-August
Celery/Celeriac							55-70°F	1/4"	12"	18-24"	August onward
Chinese Cabbage							45-75°F	1/4"	12-18"	18-36"	June-July
Collards							55-75°F	1/4"	12-24"	18-36"	June onward
Corn							65-85°F	1-2"	8-12"	24-30"	August-Sept.
Cucumbers							65-90°F	1/2"	1-2/hill	3-4"	July-September
Eggplant							75-90°F	1/4"	12-18"	2-3"	August-Sept.
Endive							50-70°F	1/4-1/2"	6-12"	16-18"	May-July
Fennel							50-70°F	1/4-1/2"	6-12"	16-18"	May-July
Kale							55-75°F	1/4"	12-24"	18-36"	June onward
Kohlrabi							55-75°F	1/4"	3-8"	12-18"	June onward
Leeks							50-85°F	1/4-1/2"	4-5"	12-18"	July onward
Lettuce							40-80°F	1/4"	10-16"	16-18"	May onward
Melons							70-85°F	1/2"	3-4"	5-6"	August-Sept.
Mustard							40-75°F	1/4"	6-18"	9-16"	May onward
Okra							70-90°F	1/2"	12-18"	36"	July-September
Onions, Bulb							50-75°F	1/4-1/2"	2-7"	12-24"	August-Sept.
Pac Chl							45-75°F	1/4"	12-18"	18-36"	June-July
Parsnips							55-75°F	1/2"	3-4"	12-18"	Sept.-December
Peas							45-75°F	1-1 1/2"	N/A	18-24"	May-July
Peppers							70-90°F	1/4"	12-18"	24-30"	July-September
Potatoes								4-6"	24"	24-36"	May-July
Pumpkins/Gourds							65-85°F	1"	3-4"	4-6"	Sept.-October
Radishes							45-80°F	1/2"	1-2"	8-12"	May-July
Rutabagas							50-75°F	1/4-1/2"	6-8"	12-16"	Sept. onward
Shallot Seed							50-85°F	1/2"	2-4"	12-24"	August-Sept.
Spinach							45-75°F	1/2"	3-6"	12"	April-July
Squash, Summer							65-85°F	1-1 1/2"	1-2/hill	3-6"	July-September
Squash, Winter							65-85°F	1-1 1/2"	1-2/hill	3-6"	August-Frost
Sweet Potatoes							65°F		16-18"	12-24"	August-Frost
Swiss Chard							50-75°F	1/2"	10-16"	18-24"	May onward
Tomatoes							70-90°F	1/4"	18-36"	3-4"	July-September
Turnips							50-75°F	1/4-1/2"	6-8"	12-16"	May-July
Watermelon							70-85°F	1/2"	3-4"	5-6"	August-Sept.

Direct sow (based on our area of Cottage Grove, OR) Sow indoors Transplant (determined from a last frost date of approximately May 12th) Cover at transplant

Vegetable	Sowing Date Range						Harvest	Max Storage Time	Storage Temp	Storage Humidity	Freeze Out Temp
	May	June	July	Aug.	Sept.	Oct.					
Arugula							Winter-Spring	1 week	34-40°F	90-95%	5-10°F
Beets							All Winter	4-5 mo	34-40°F	90-95%	15-20°F
Beans, Fava							Spring-Summer	2 wks	34-40°F	Dry	10-20°F
Broccoli - Autumn Harvest							Autumn	2 wks	34-40°F	90-100%	Before Severe Frost
Broccoli - Sprouting							Spring	2 wks	34-40°F	90-100%	15-20°F
Brussels Sprouts - Autumn Harvest							Autumn	3-5 wks	34-40°F	90-100%	After Severe Frost
Brussels Sprouts - Winter Harvest							Winter	3-5 wks	34-40°F	90-100%	After Severe Frost
Cabbage - Late Summer Harvest							Late Summer	3-6 wks	34-40°F	90-100%	Before Heavy Freeze
Cabbage - Autumn/Winter Harvest							Autumn-Winter	5-6 mo	34-40°F	90-100%	Before Heavy Freeze
Cabbage - Winter Harvest							Winter	5-6 mo	34-40°F	90-100%	Before Heavy Freeze
Carrots							Winter-Spring	4-5 mo	34-40°F	90-95%	5°F
Cauliflower - Summer Harvest							Late Summer	3-4 wks	34-40°F	90-95%	10-15°F
Cauliflower - Autumn Harvest							Autumn	3-4 wks	34-40°F	90-95%	10-15°F
Cauliflower - Spring Harvest							Spring	3-4 wks	34-40°F	90-95%	10-15°F
Chinese Cabbage							Late Fall	2-3 wks	34-40°F	90-95%	20°F
Collards							Winter-Spring	1 week	34-40°F	90-95%	5-10°F
Corn Salad							Spring	1 week	35-40°F	90-95%	5°F
Endive							Winter	2 wks	34-40°F	90-95%	Before Heavy Freeze
Fennel							Autumn-Spring	2-3 wks	33-40°F	90-95%	Before Heavy Freeze
Garlic & Shallot Bulbs							Summer	5-8 mo	34-50°F	60-70%	15°F
Kale							Winter-Spring	2-3 wks	34-40°F	90-95%	5-10°F
Kohlrabi							Winter-Spring	2-3 wks	34-40°F	90-95%	5°F
Leeks - Autumn Harvest							Fall-Winter	8 wks	34-40°F	90-95%	5°F
Leeks - Winter Harvest							Winter-Spring	8 wks	34-40°F	90-95%	5°F
Lettuce							Fall-Winter	2 wks	34-40°F	90-95%	5-10°F
Mustard Greens							Winter	2 wks	34-40°F	90-95%	5°F
Onion - Bunching							Winter-Spring	3 wks	34-40°F	90-95%	5-10°F
Onion - Overwintering & Shallots							Spring-Summer	4-8 mo	55-65°F	60-70%	5-10°F
Parsnips							Winter	4-6 mo	34-40°F	90-95%	5°F
Peas - Autumn							Fall	2 wks	33-40°F	90-95%	15°F
Peas - Overwintering							Spring	2 wks	33-40°F	90-95%	15°F
Radicchio							Fall-Winter	3-4 wks	33-40°F	90-95%	15-20°F
Radishes							Winter-Spring	2-4 mo	33-40°F	90-100%	15-20°F
Rutabagas							Winter-Spring	4-6 mo	33-40°F	90-95%	20°F
Spinach							Fall-Winter	1-2 wks	33-40°F	90-95%	5-10°F
Swiss Chard							Fall-Winter	1-2 wks	33-40°F	90-95%	5°F
Turnips							Winter-Spring	4-5 mo	34-40°F	90-95%	20°F

Sow seeds during this time period. See cultural information in the catalog. Transplant: These seedlings benefit from transplanting. Move at six weeks to a permanent well-limed location. Covering or cloching these varieties will lengthen the harvest period.

Freeze Out Temp should be used as a general guideline only. Many factors affect when a plant will succumb to cold. Our intent is to provide a temperature at which you may want to consider when to harvest and store.

Cool Season Crops

- Beets
- Chard
- Kale
- Carrots
- Spinach
- Radish
- Lettuce
- Kohlrabi



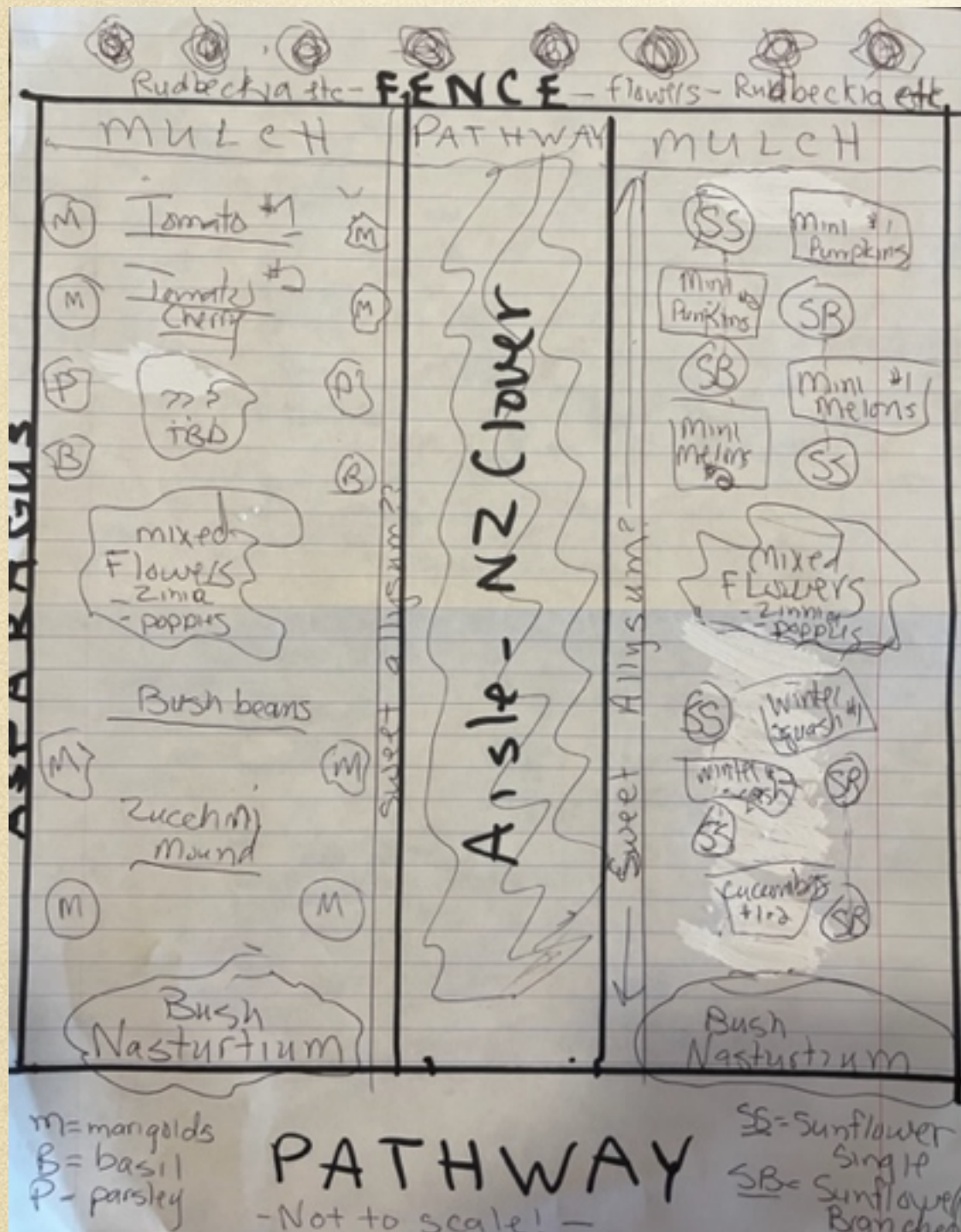
Warm Season Crops

These plants need warm soil and no chance of frost

- Summer squash
- Tomatoes
- Peppers
- Eggplant
- Pole and bush beans
- Winter squash and pumpkins
- Cucumbers



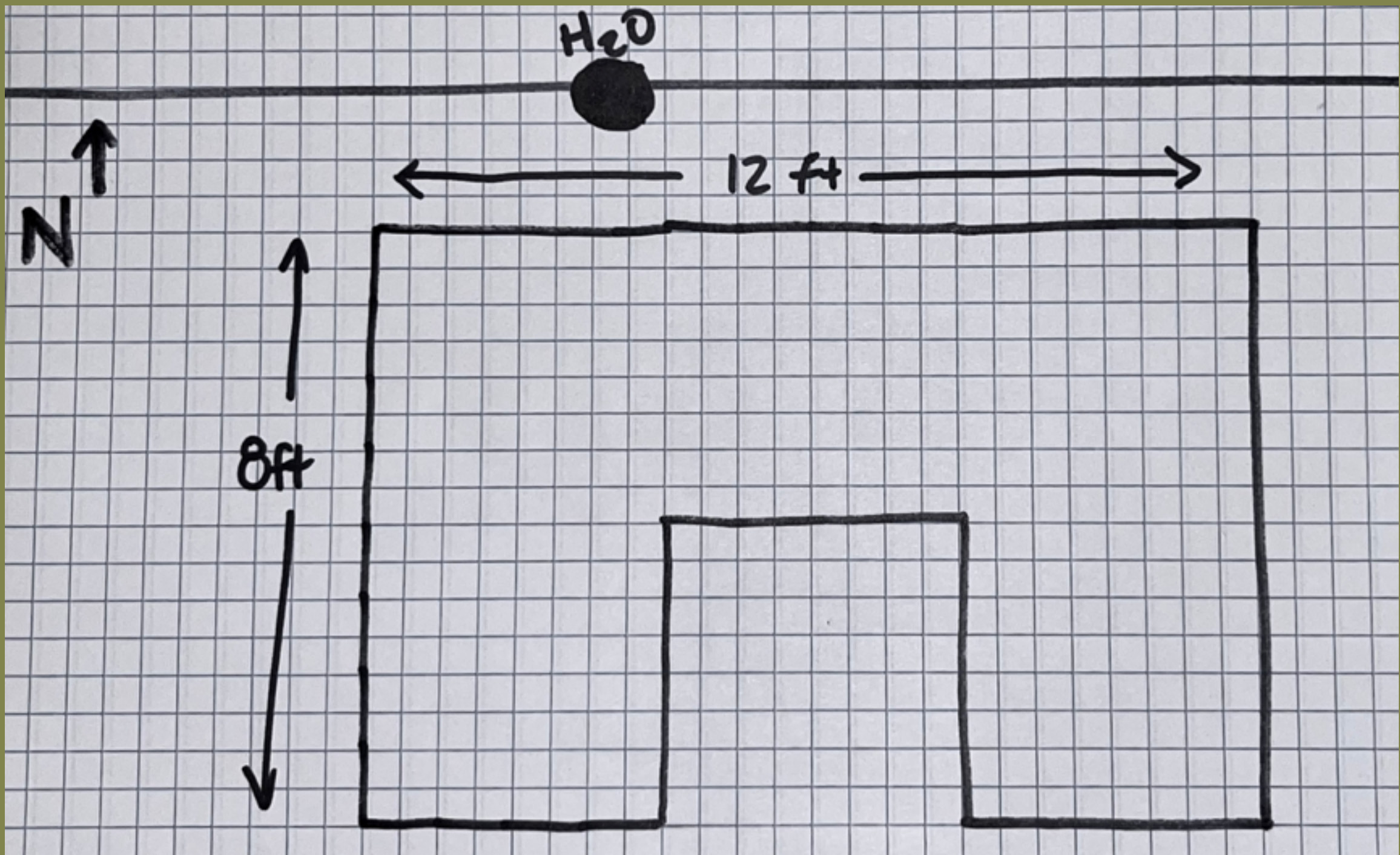
Planning Your Garden



- Make a list of the plants you want
- Choose plants from multiple seasons
- Plan for crop failures
- Start thinking about spacing

Measure and Sketch Your Planting Area

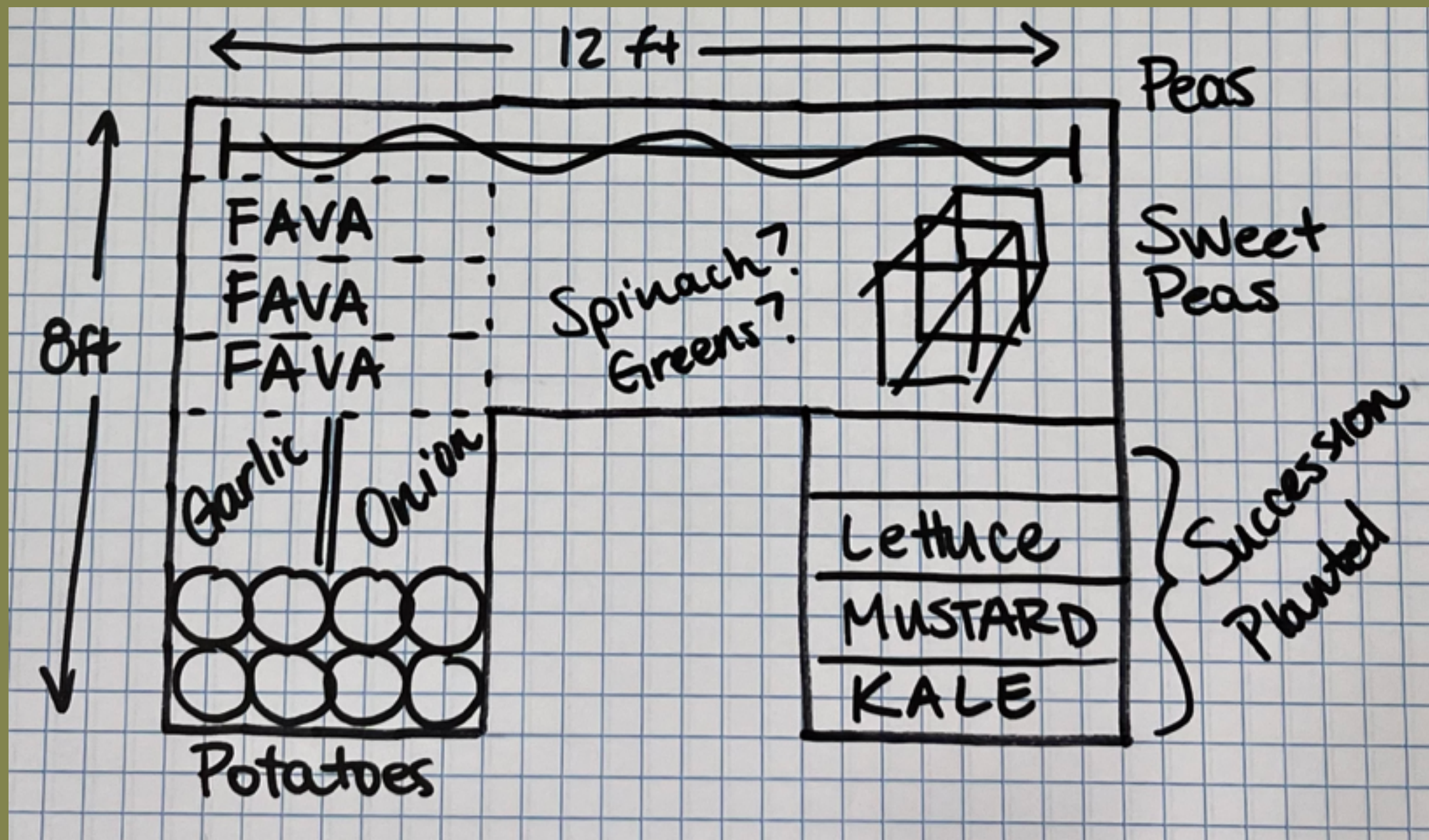
Include important information like paths, direction,
water access



Add Plants to Your Drawing

Space plants to account for mature footprint and height of plants

Consider crop families and succession planting



Where to Place Plants in Your Plan

- Tall plants on the North side to prevent shading
- Make room for trellises or supports
- Make groupings with similar growth requirements like lower water herbs



Plant Families

- Rotate crops each year to prevent soil-borne diseases
- Try not to plant vegetables from the same family in the same spot two years in a row

TABLE 2.—PLANT FAMILIES FOR CROP ROTATIONS.

Family	Vegetables
Apiaceae	Carrot, celery, fennel, parsnip
Brassicaceae	Broccoli, Brussels sprout, cabbage, cauliflower, kale, horseradish, kohlrabi, mustard, radish, rutabaga, turnip
Chenopodiaceae	Beet, spinach, Swiss chard
Cucurbitaceae	Cucumber, gourd, melon, pumpkin, squash, watermelon, zucchini
Fabaceae	Lima bean, pea, snap bean, soybean
Liliaceae	Asparagus, garlic, leek, onion, shallot
Solanaceae	Eggplant, pepper, potato, tomato

Succession Planting

Keeping Your Garden Productive

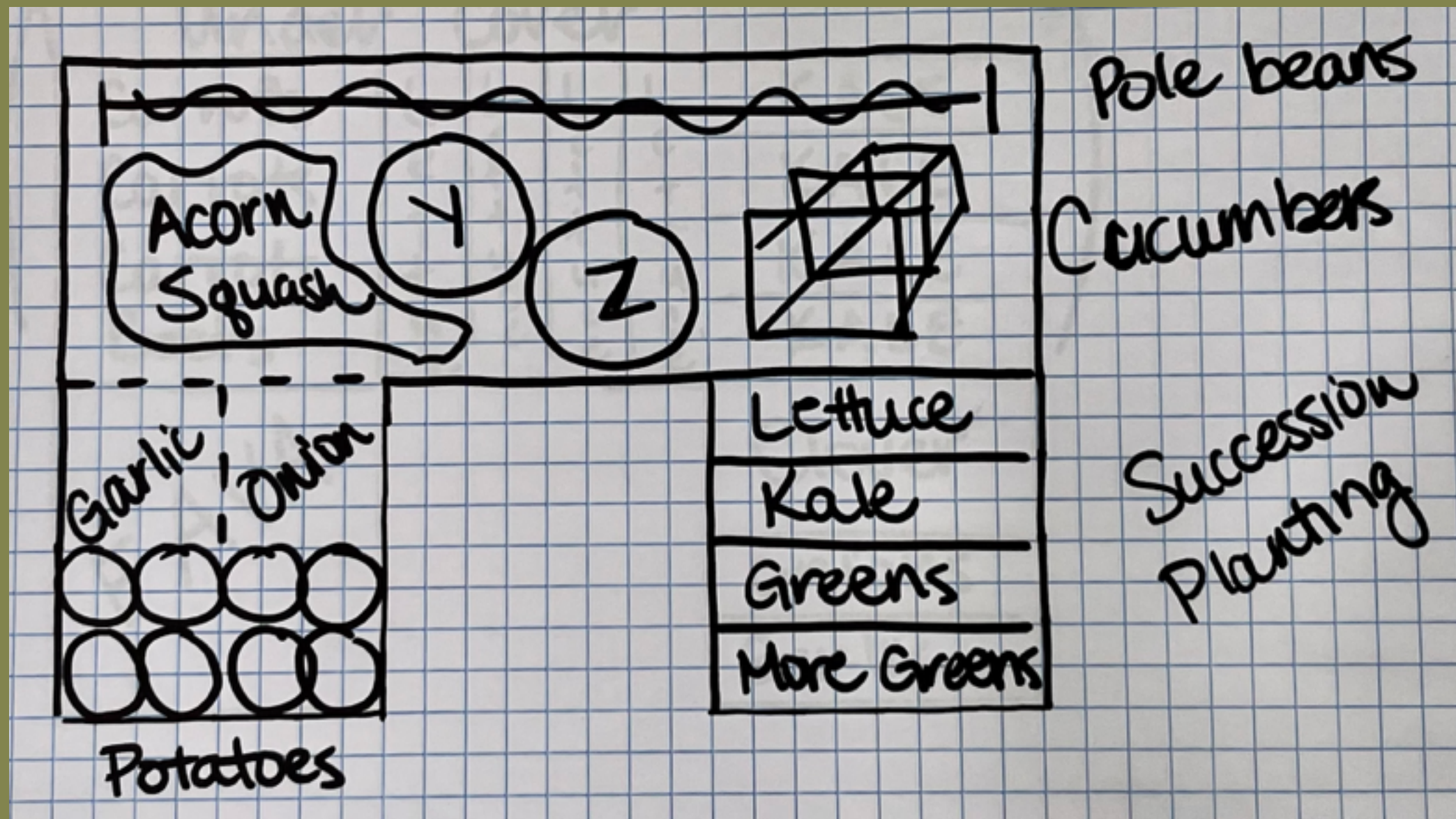
- Repeated sowing of a short season crop like radishes or lettuce
- Planting both cool season and warm season crops in sequence
- Catch cropping - planting quick crops with longer crops



Planning Ahead to Summer

Cool season crops are exchanged for warm season

Some crops have a longer growth period and stay

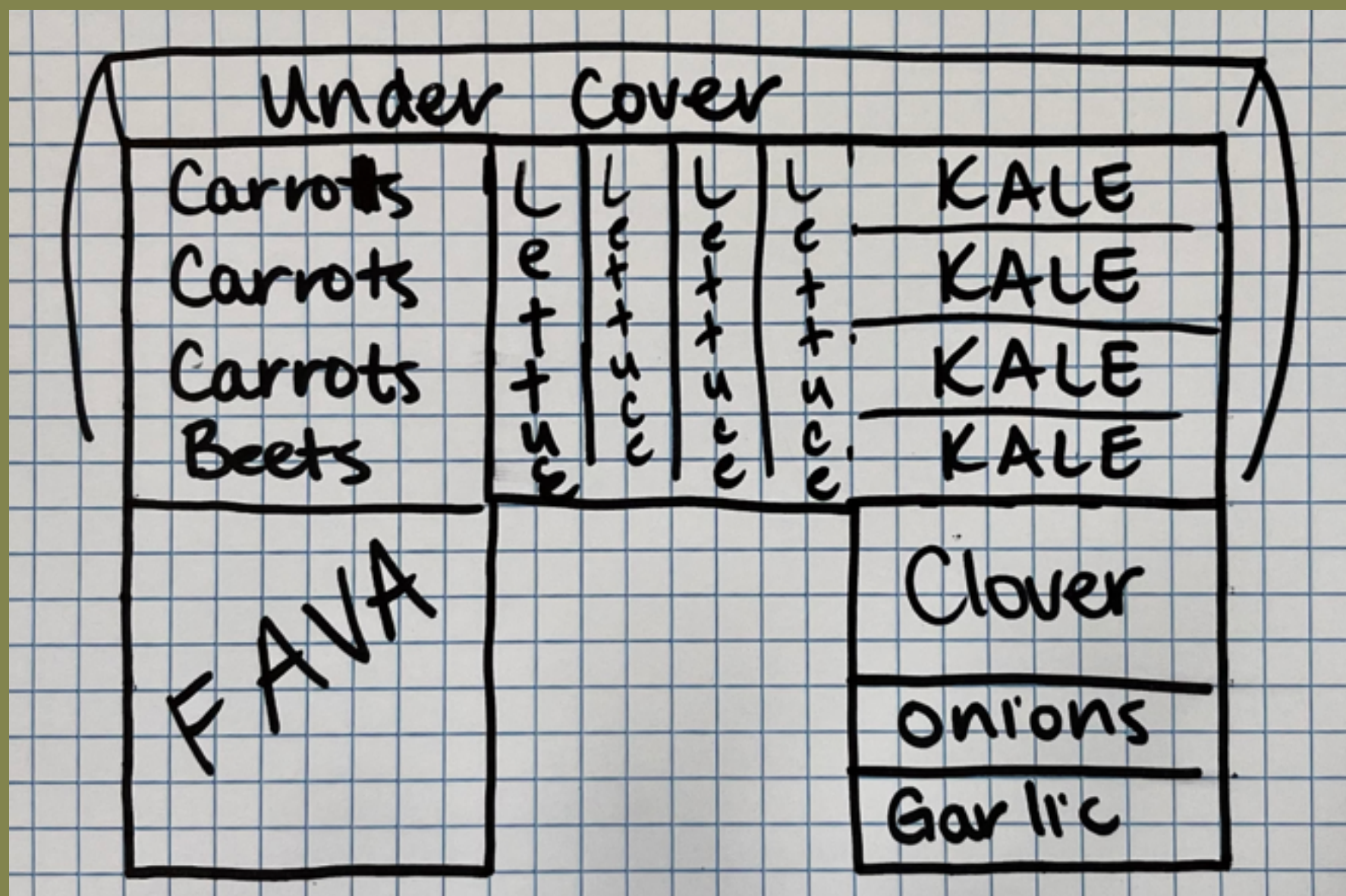


Fall and Winter Gardening

Some start as early as August

Onions and garlic are planted to harvest next year

Many greens can be harvested all winter in the PNW



- Grow Your Own - A Practical Guide to Growing in Oregon
<https://catalog.extension.oregonstate.edu/sites/catalog/files/project/pdf/em9027.pdf>
- Portland Nursery Veggie Calendar <https://portlandnursery.com/docs/veggies/VeggieCalendar.pdf>
- Vegetable Gardening in Oregon <https://catalog.extension.oregonstate.edu/sites/catalog/files/project/pdf/ec871.pdf>
- <https://territorialseed.com/blogs/spring-growing-guides/spring-growing-chart>
- Seed to Supper at Home <https://www.youtube.com/@bentoncountymastergardener1039/videos>

S2S in the Garden at Champinefu Lodge

OSU Basic Needs Center Garden

Champinefu Lodge, 1030 SW Madison Ave, Corvallis, OR

Second Thursday of each month (4-5:30pm), April thru August/September

For OSU students

Container Workshop

Lupe's Garden at Philomath Community Services (PCS)

360 S 9th St Philomath OR 97370

Saturday May 13th, 10:00am-12noon

Fall/Winter Gardening Workshop

Calvin Garden at Calvin Presbyterian Church

1736 NW. Dixon St. Corvallis, OR 97330

Saturday July 29th 10am-12noon

Composting Workshop

Lupe's Garden at Philomath Community Services (PCS)

360 S 9th St Philomath OR 97370

Saturday June 24th, 10am-12noon

S2S in the Garden

Willamette Park Community Garden

Saturdays April 22nd & 29th, 10am-12noon