

# Transforming a City Lot for the Future Climate



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March 19, 2025





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2021

# Transforming a City Lot for the Future Climate

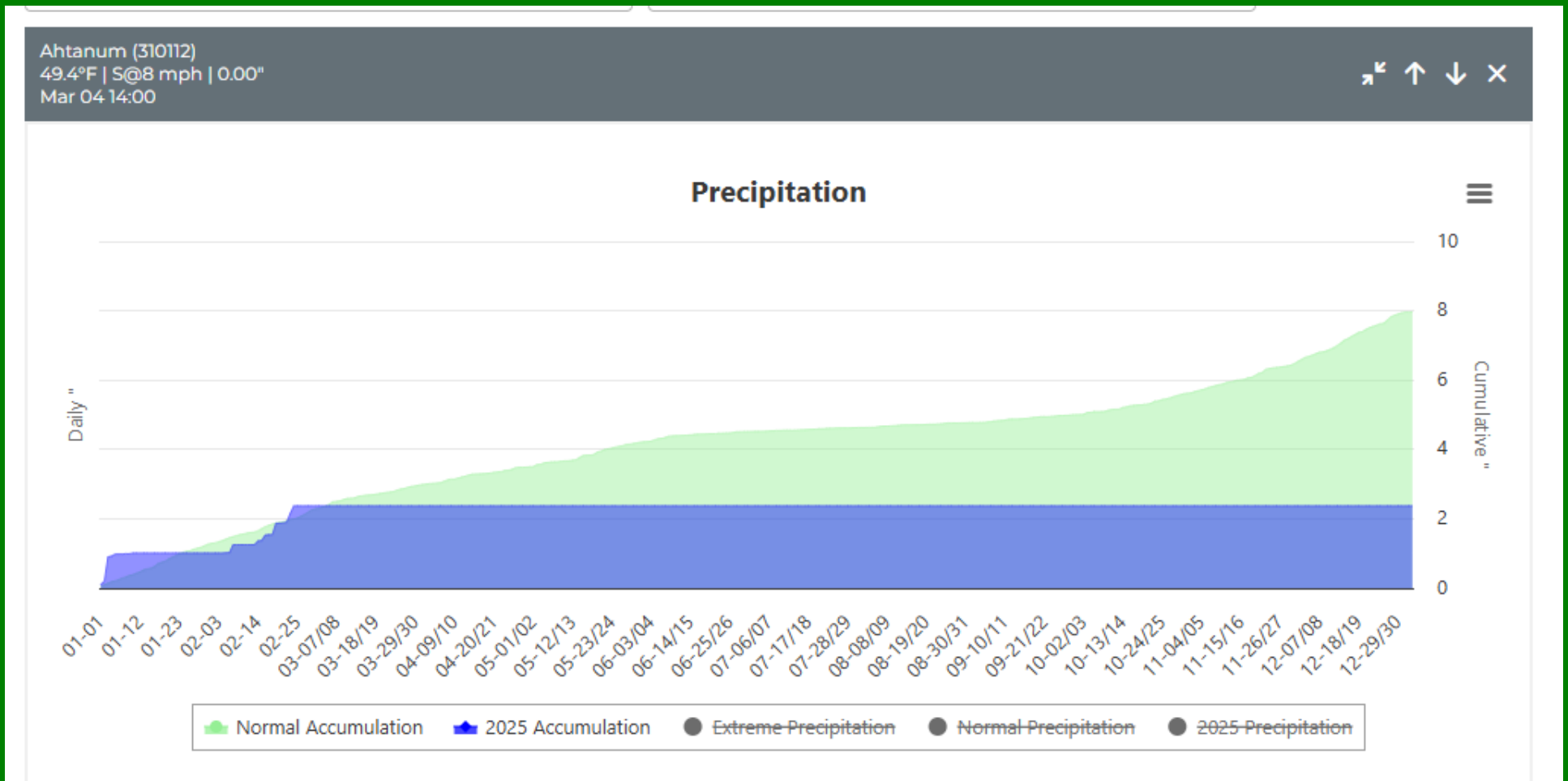
- Accessing your resources
- My lot
- Planting and growing a dry garden
- Pretty pictures

# Assess your resources

## Water

Property's water rights

Natural rainfall: Agweathernet





# Assess your resources

## Soil fertility: test results from UMass Extension

### Results

<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>	<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>
Soil pH (1:1, H <sub>2</sub> O)	7.3		Cation Exch. Capacity, meq/100g	19.9	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	0.0	
<i>Macronutrients</i>			<b>Base Saturation, %</b>		
Phosphorus (P)	166.0	4-14	Calcium Base Saturation	64	50-80
Potassium (K)	974	100-160	Magnesium Base Saturation	23	10-30
Calcium (Ca)	2565	1000-1500	Potassium Base Saturation	13	2.0-7.0
Magnesium (Mg)	560	50-120	<b>Scoop Density, g/cc</b>	1.20	
Sulfur (S)	30.1	>10			
<i>Micronutrients *</i>					
Boron (B)	1.1	0.1-0.5			
Manganese (Mn)	10.5	1.1-6.3			
Zinc (Zn)	2.3	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	1.8	2.7-9.4			
Aluminum (Al)	5	<75			
Lead (Pb)	0.7	<22			

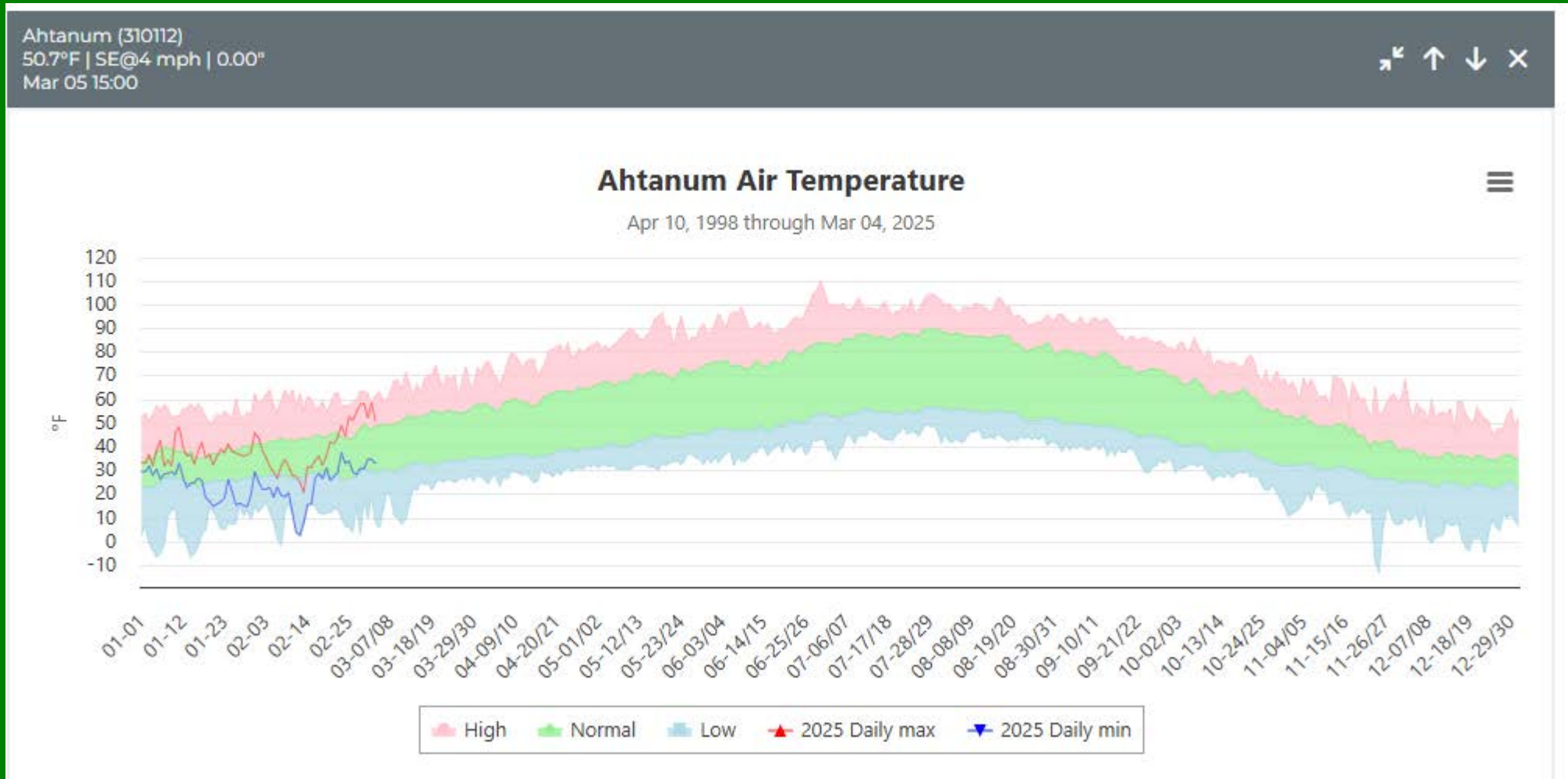
# Assess your resources

## Soil structure



# Assess your resources

## Temperature Extremes: Agweathernet

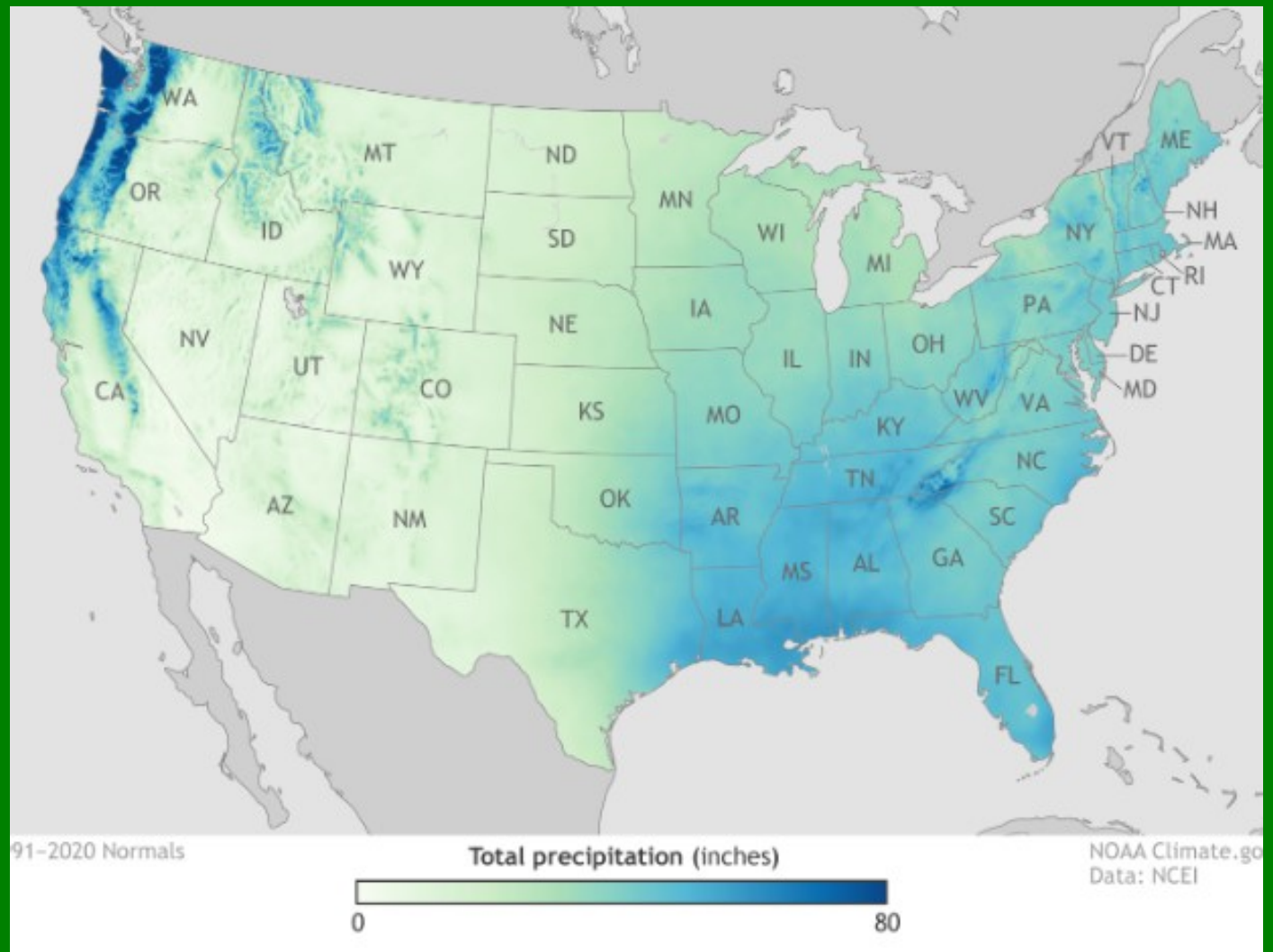


# Assess your resources

Existing trees and shrubs: how much water do they need?

Age?

Condition?



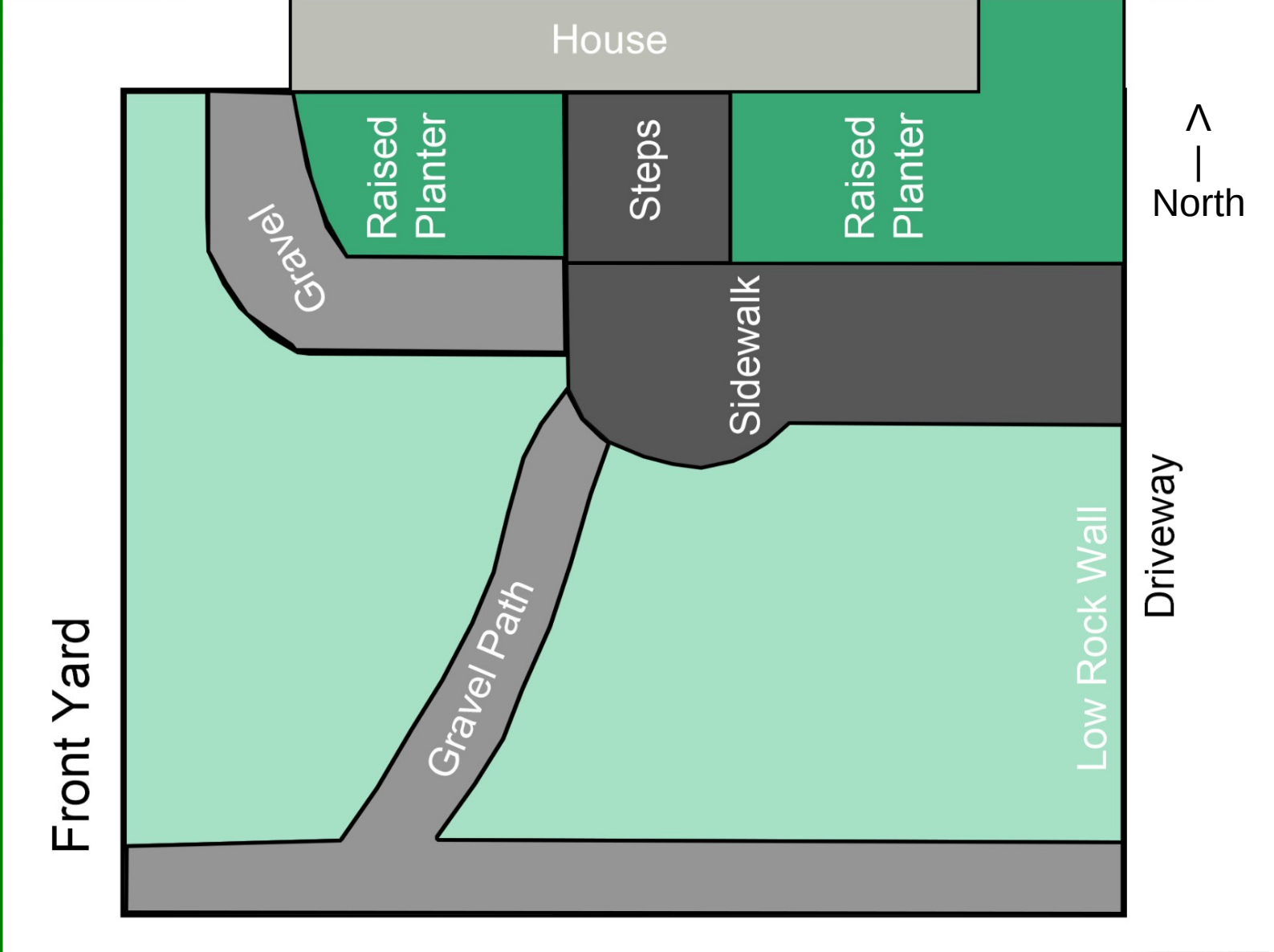


# Assess your resources

Shade  
and  
Sun



# Front Yard



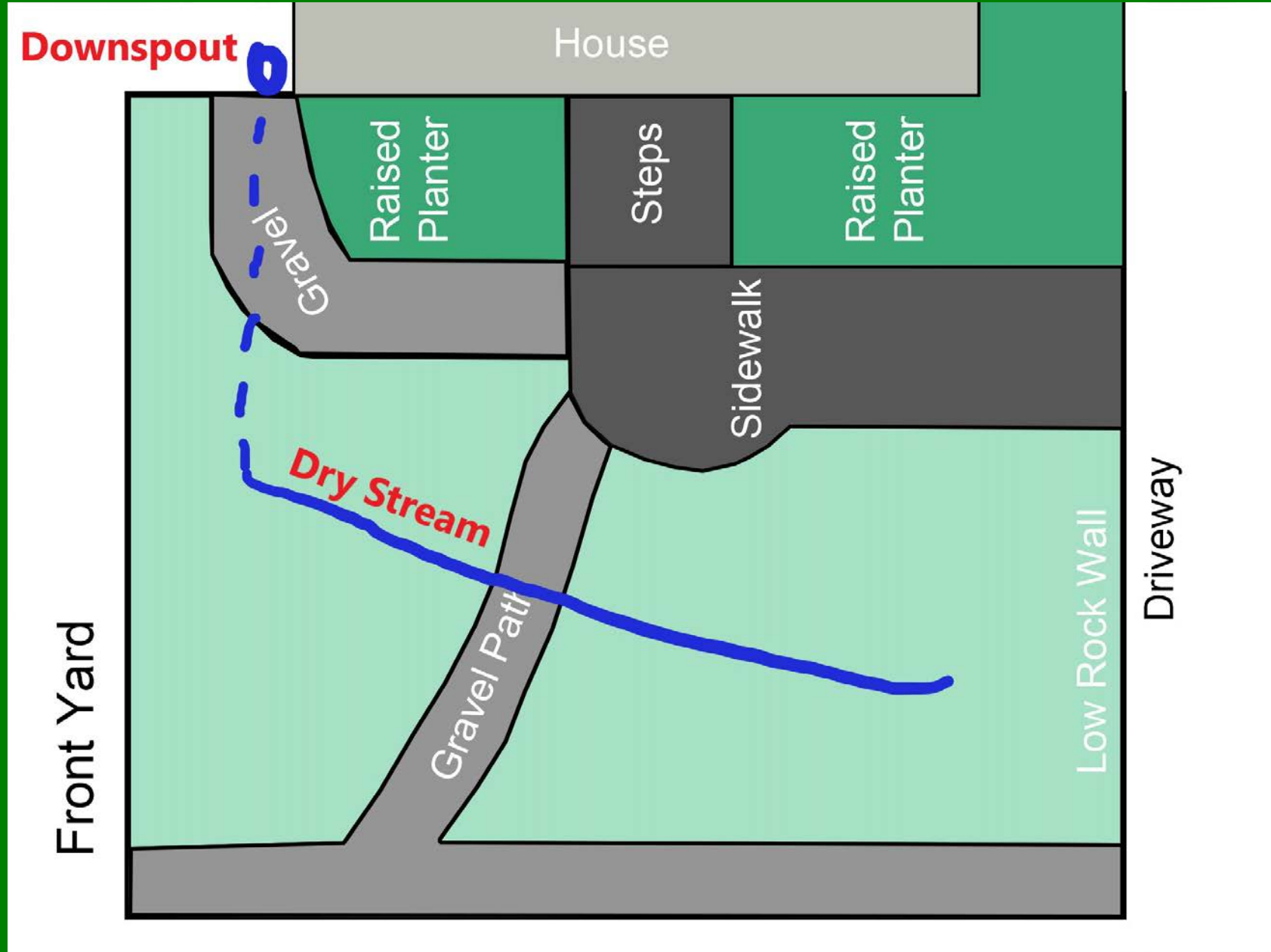


# Front Yard





# Front Yard





# Front Yard





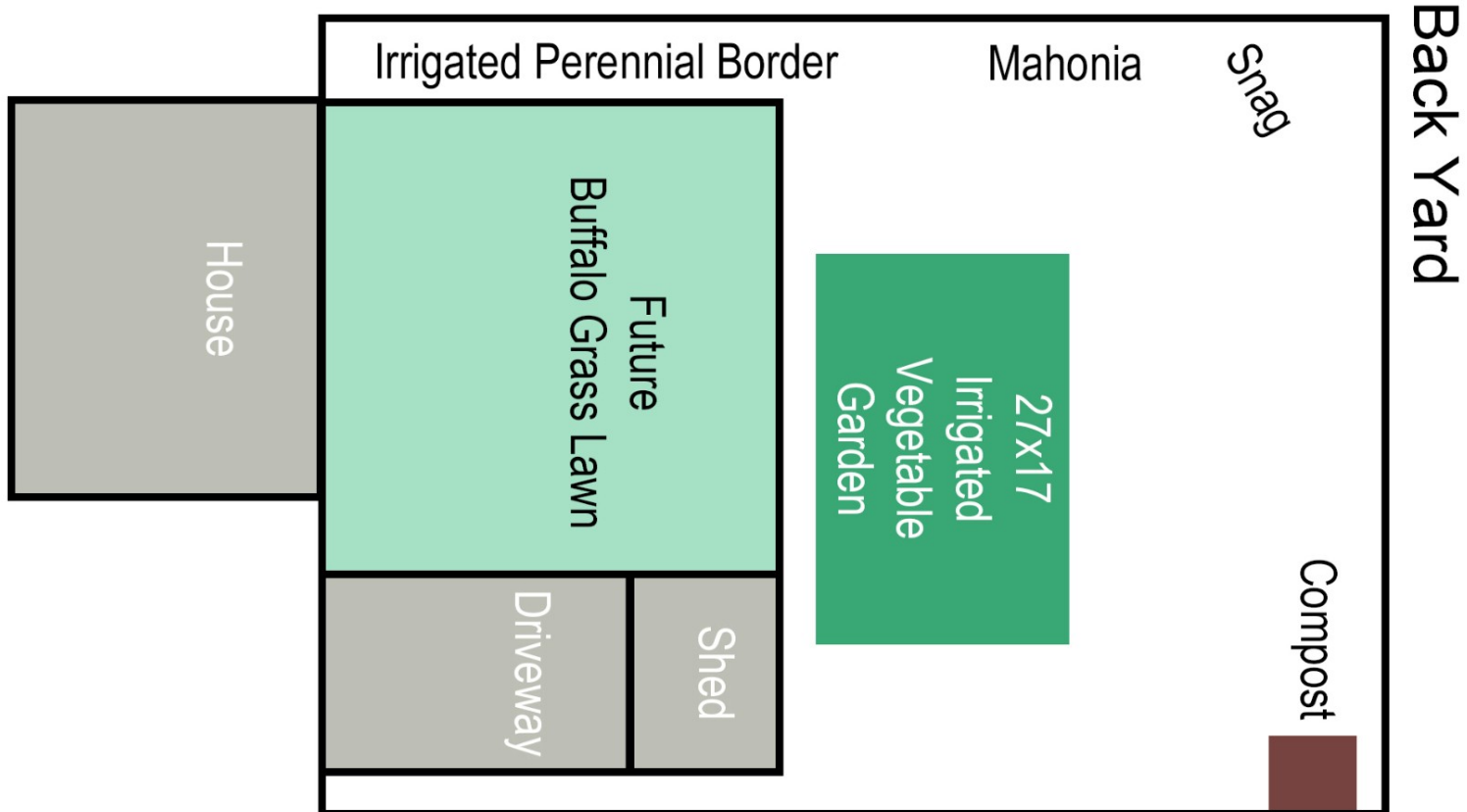
# Front Yard





# Back Yard

North -->



70 feet x 50 feet

# Driveway



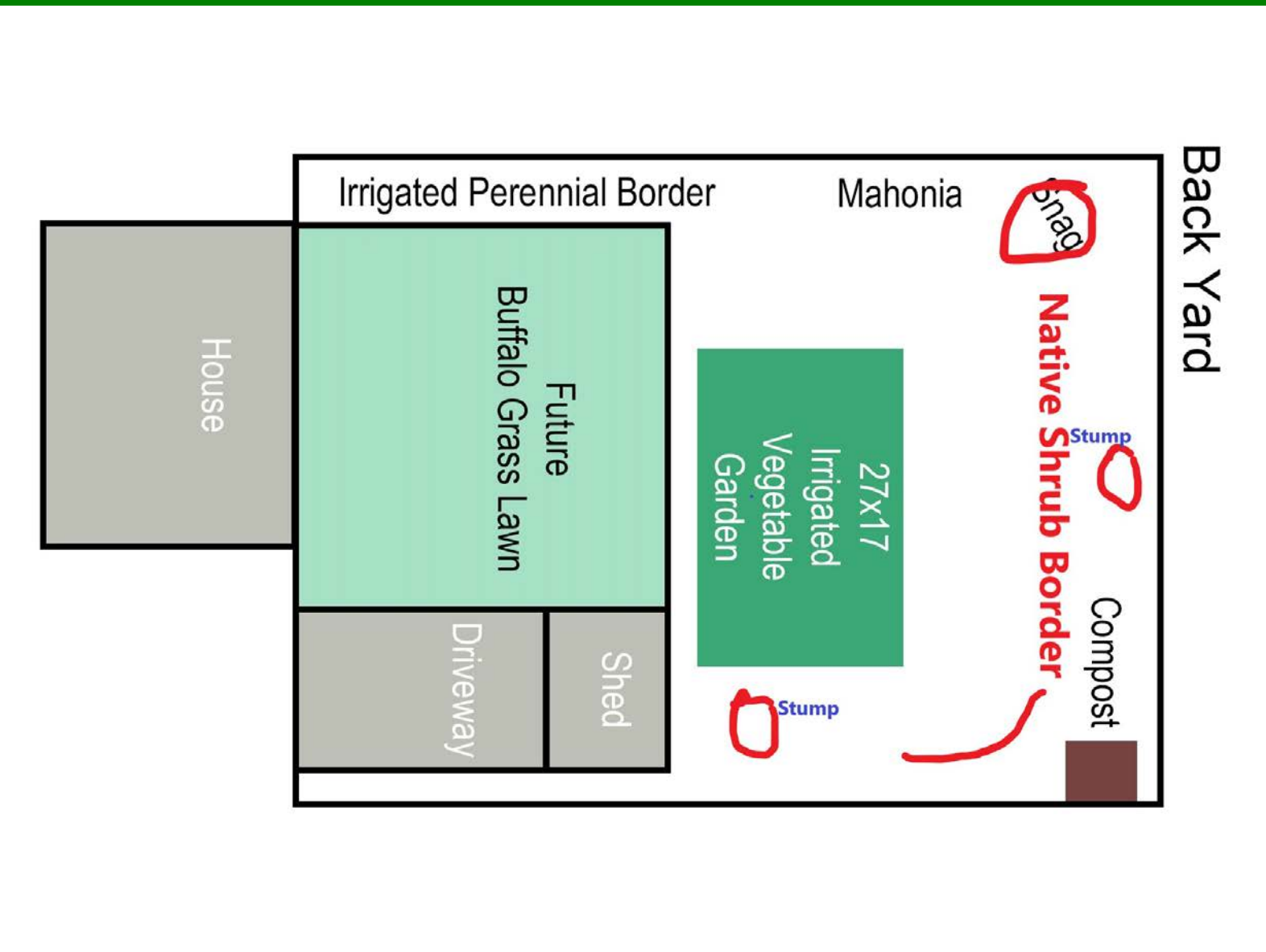


# Backyard





# Backyard

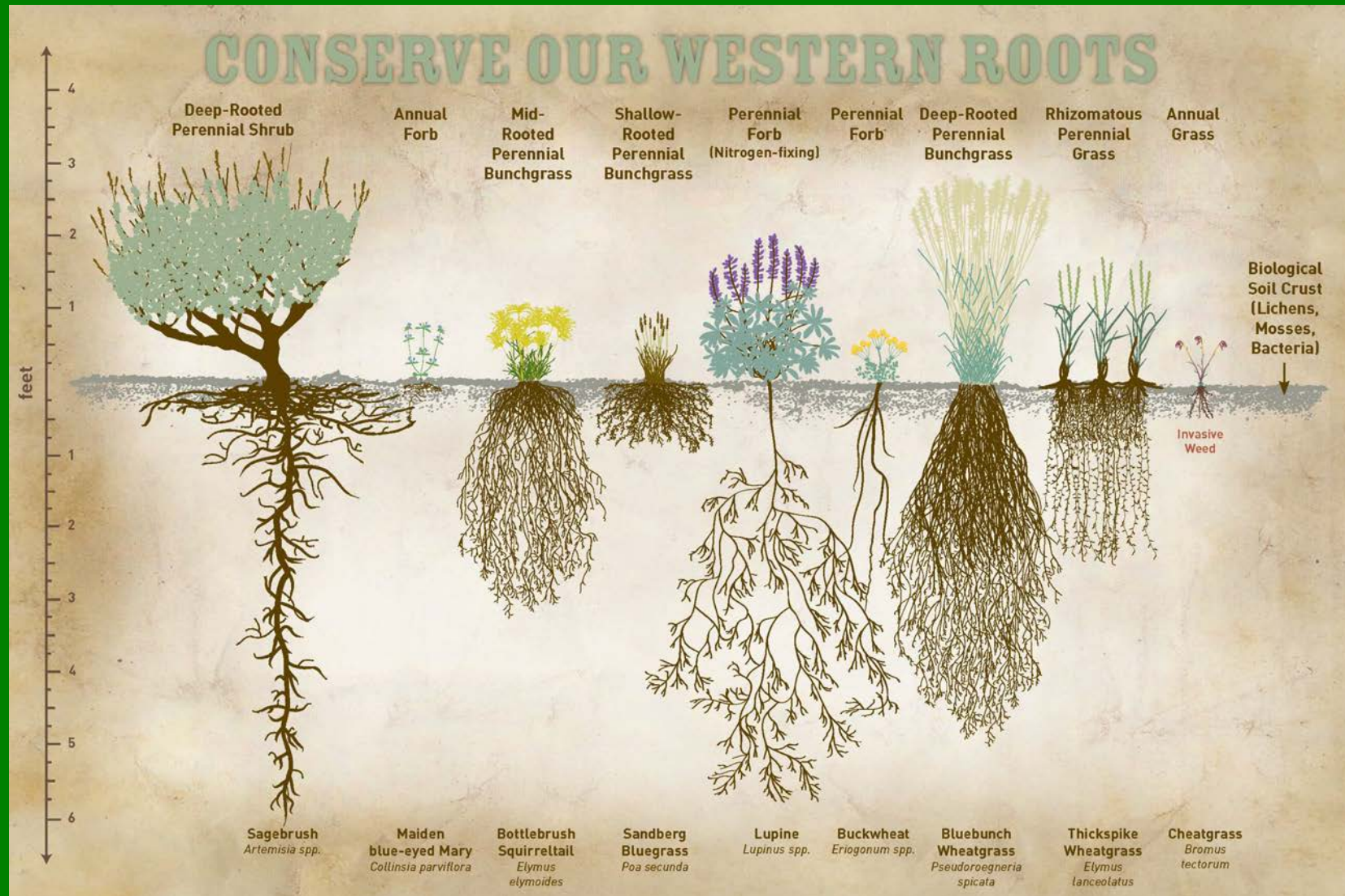


# Planting and growing a dry garden

*High and Dry: Gardening with Cold-Hardy Plants,*  
by Robert Nold

- Rejecting the accepted wisdom of traditional horticulture
- A whole new catalog of plants
- A new gardening technique
- A wholesome acceptance, without reservation, of the realities of the climates of the west

# Rejecting the accepted wisdom of traditional horticulture





# A whole new catalog of plants

- What does “drought-tolerant” mean?
- Also has to be cold hardy
- Nold book list of plants
- Nurseries and catalogs:
  - Derby Canyon Natives
  - Tapteal Native Plants
  - High Country Gardens

# A new gardening technique





# A new gardening technique





A wholesome acceptance,  
without reservation,  
of the realities of our climate

































