

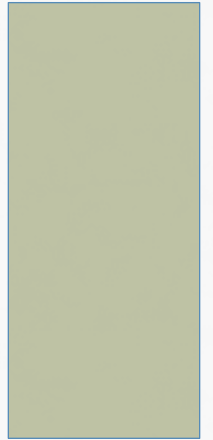
WATER-WISE LANDSCAPING 2013

SPONSORED BY
OF VALLEJO



APRIL 22, 2013

WATER-WISE BASICS

A solid blue horizontal bar located at the bottom of the white rectangular box containing the title.

Water-Wise Basics Today

Irrigation

April 29th

Plant Selection

May 6th

AGENDA

6:30 pm **Welcome and Introductions**

Water Use

Integrated Pest Management (IPM)

Jennifer Kaiser – Vallejo Sanitation and Flood Control District

**Know Your Yard:
The Basics**

7:20 pm **Break**

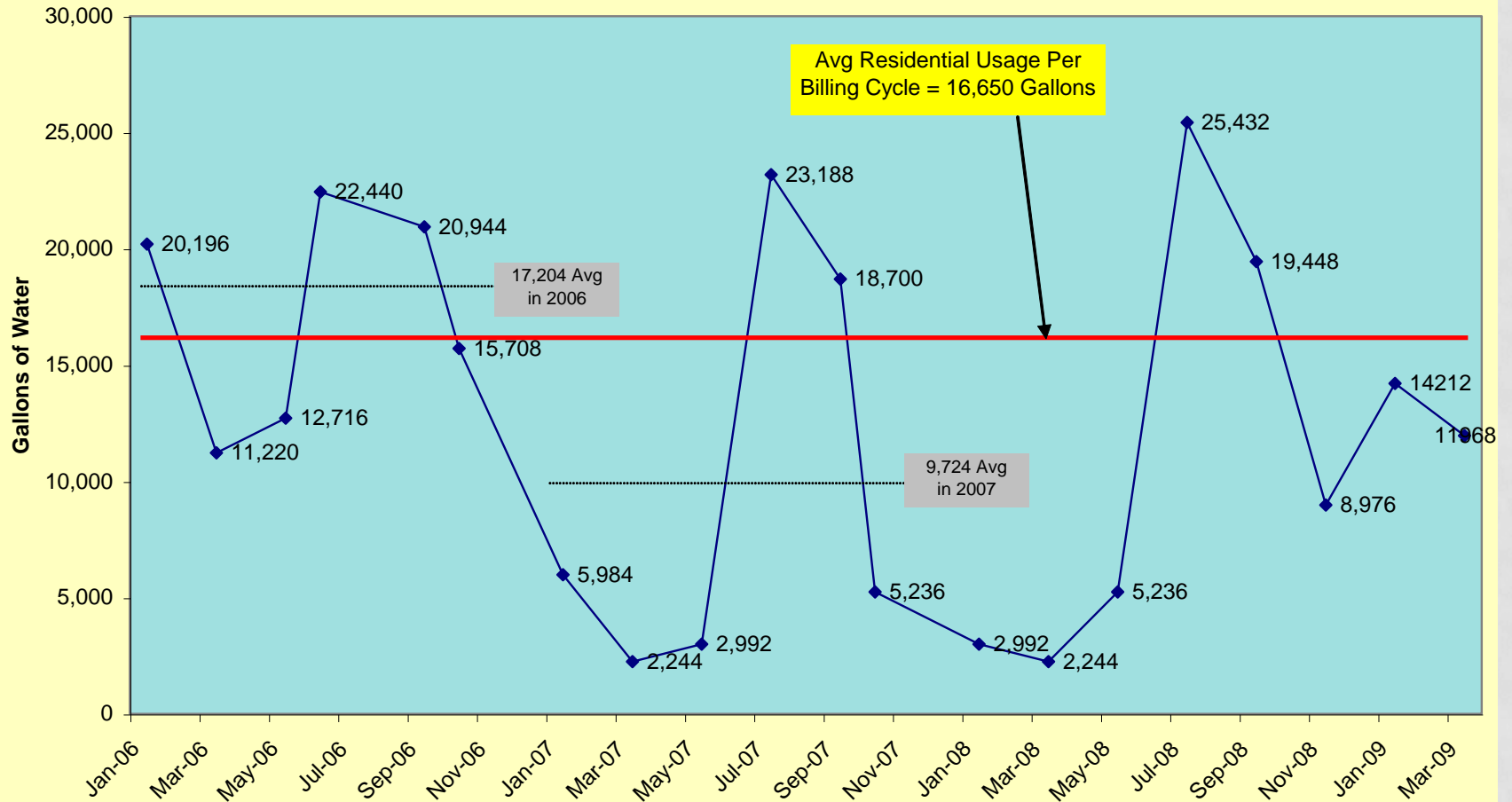
7:30 pm **Application of Basics**

8:20 pm* **Conclusion**

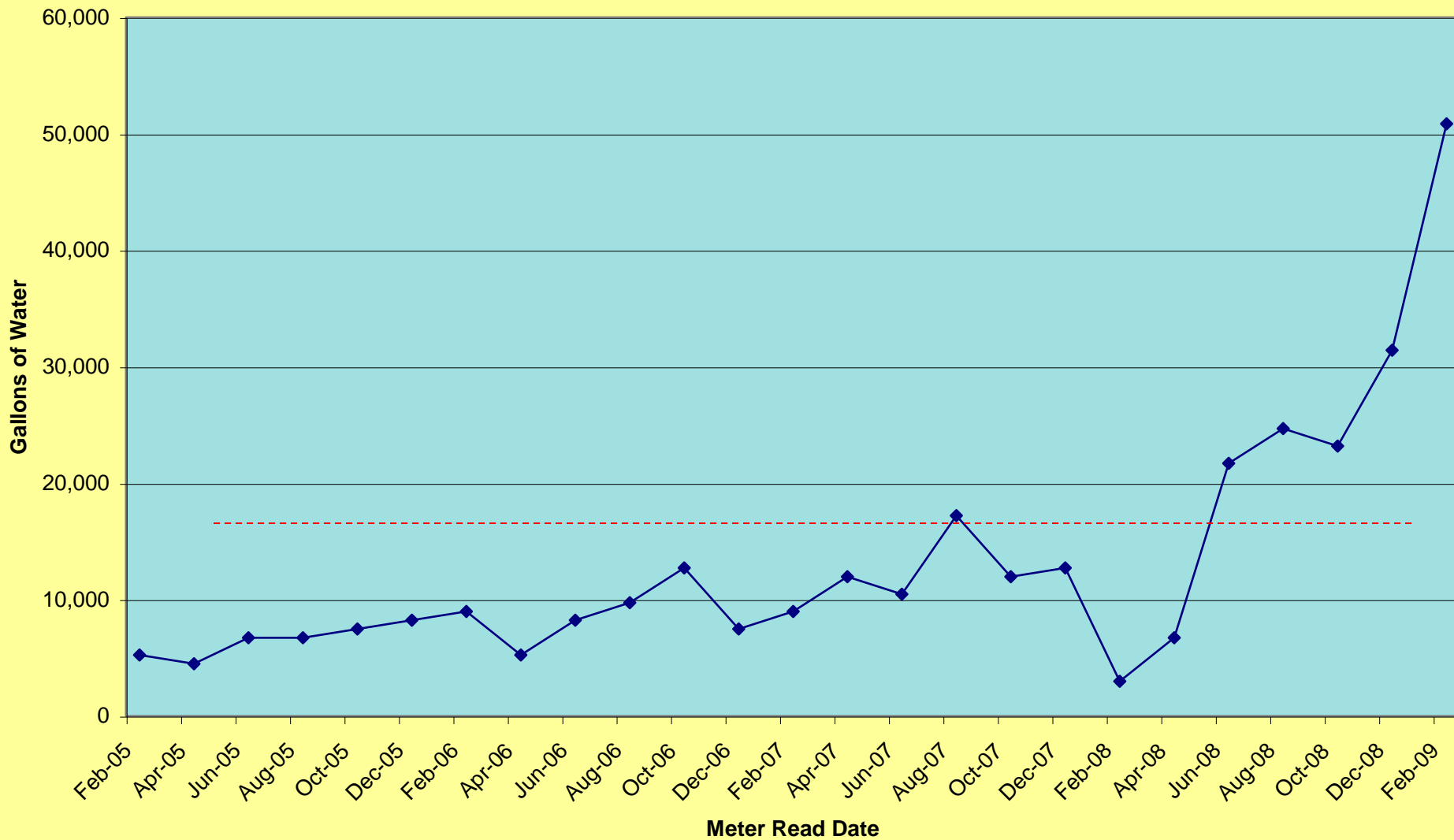
* Workshop presenters will remain available to answer questions.

Water Usage History

(xxx Flying Dutchman Ct)



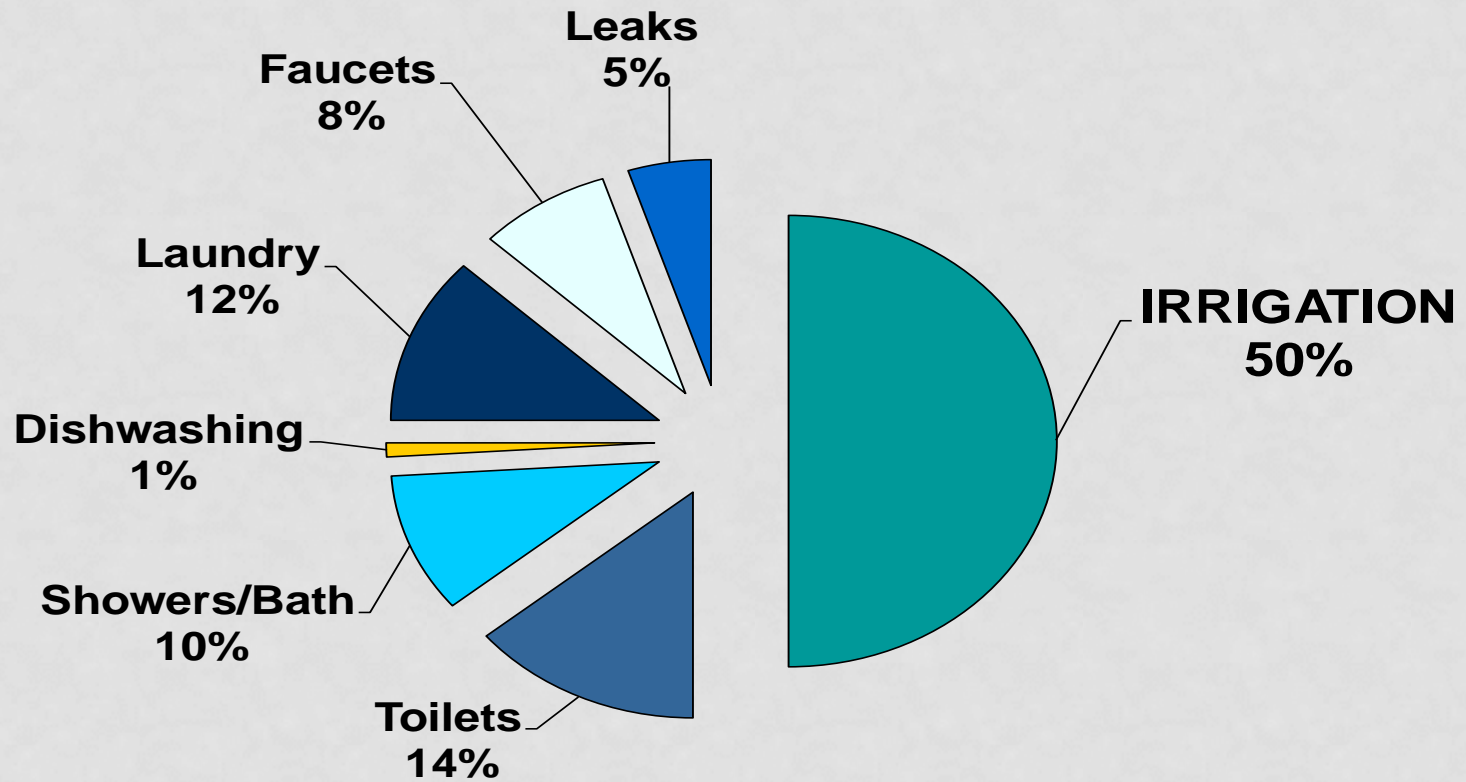
***Water Usage Summary (XXX Russell St.)
2005 - 2009***



PURPOSE OF THIS PROGRAM

- Help residents learn how to save water in their landscape
- Familiarize residents with resources available
 - City Water staff
 - Master Gardeners – UC Cooperative Extension
 - Community Gardens
 - Books, magazines, websites
 - Local demonstration gardens
 - Local plant nurseries that specialize in low-water plants
 - Local landscape designers
 - Lawn Replacement Program

URBAN WATER USE

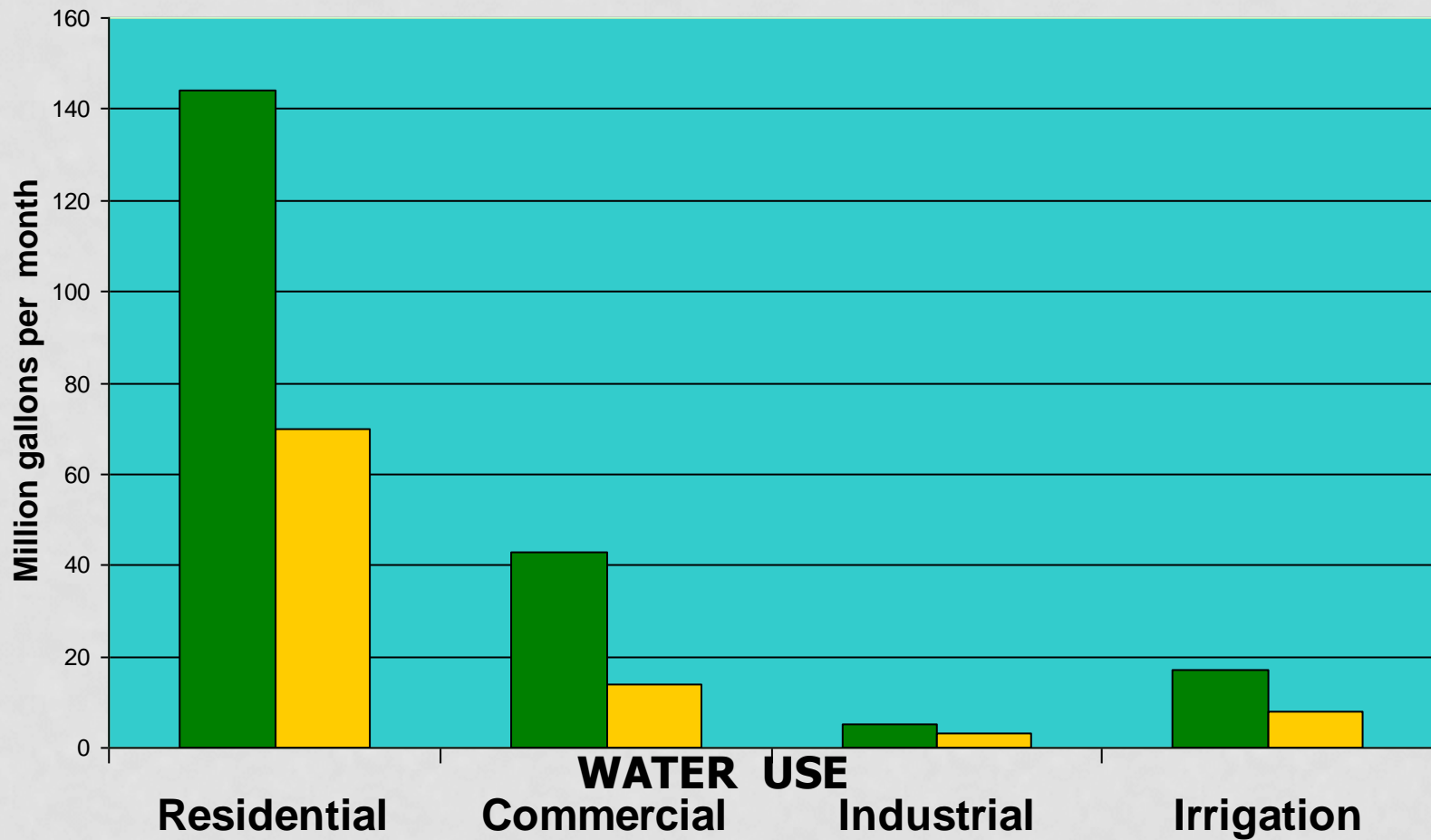


WATER USE

Average in Vallejo and Benicia

- 116 to 132 gallons per person per day
- 1% saving per year
 - In Benicia that is 11 million gallons or enough for 70 households for a year!
- In Vallejo that is 31 million gallons or Enough for 200 households for a year

Summer vs. Winter Treated Water Use



Integrated Pest Management

IPM Resources available

Jennifer Kaiser

Vallejo Sanitation and Flood Control District

KNOW YOUR YARD

SF Bay Area

Temperature

Soil

You are **HERE**



Yard features

N
orth

75'

Ground Cover
(low water use)

V
E
G
I
E
S

Fence

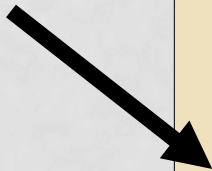
Fence

Fence

SLOPE



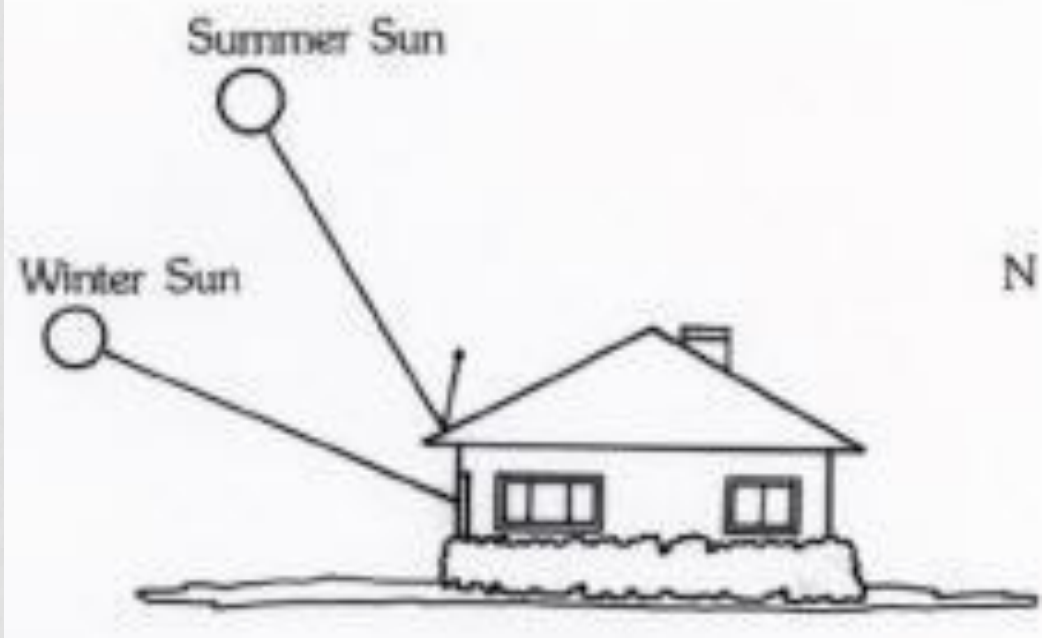
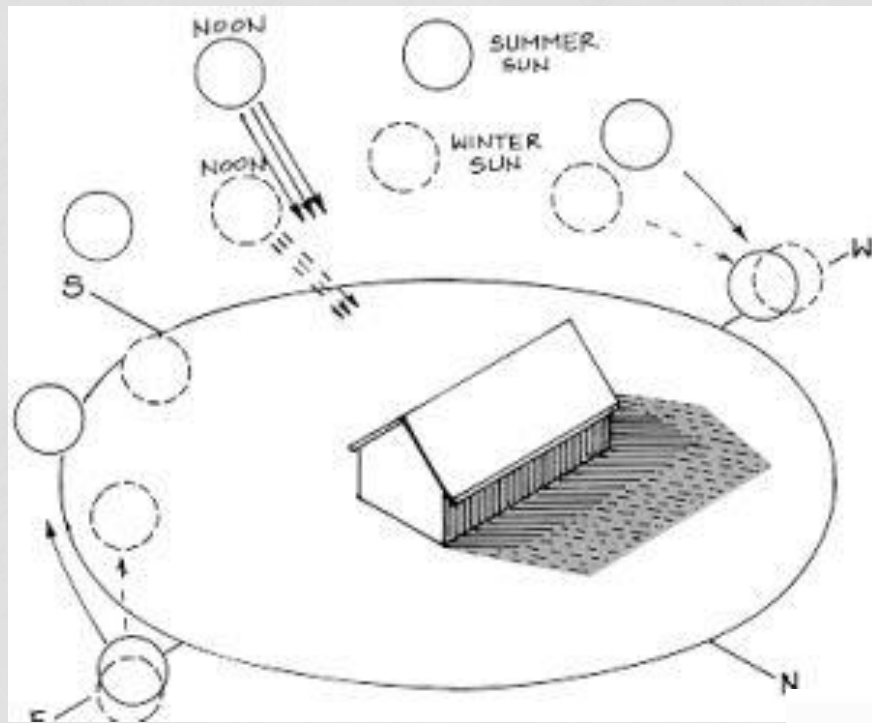
WIND



100'

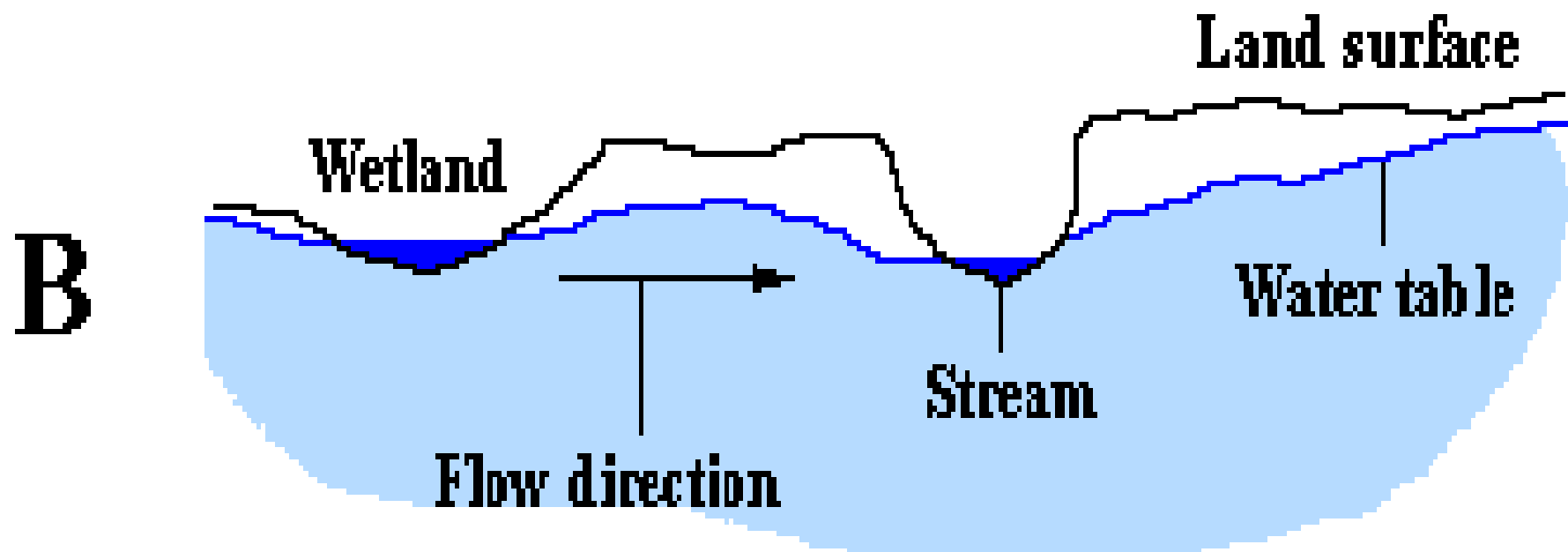
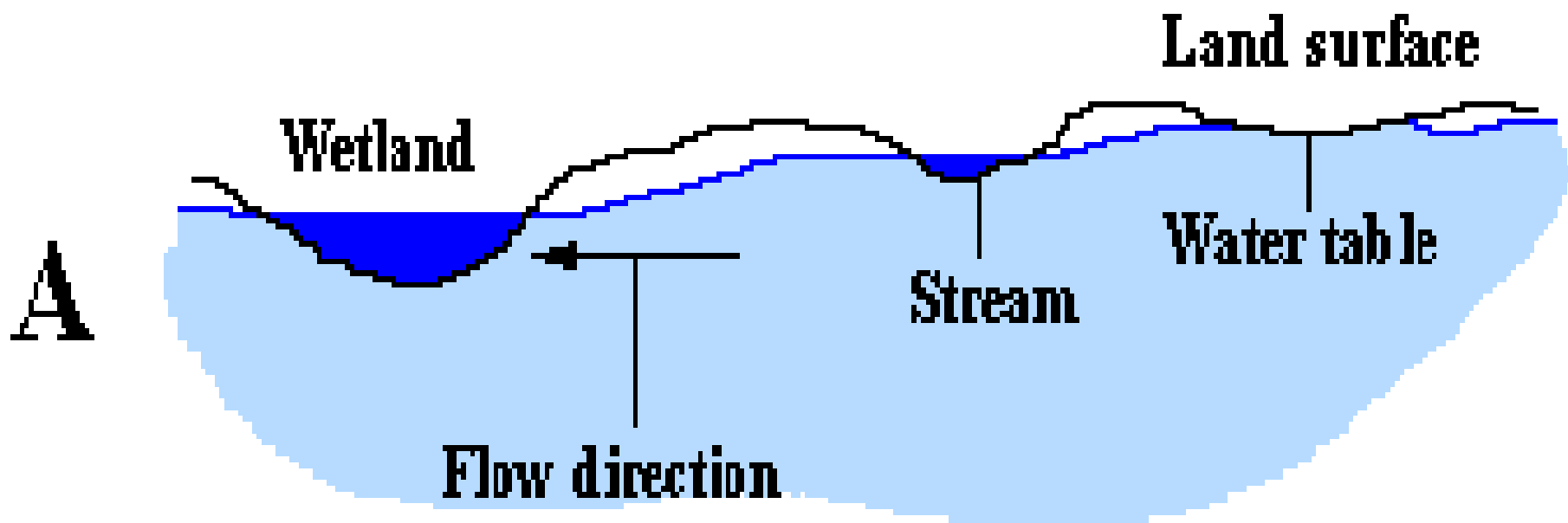
Aspect





A photograph of a residential backyard. On the right is a single-story house with a red-tiled roof and light-colored walls. A window shows a black and white cat looking out. The yard has a green lawn, a stone patio, and various plants, including a flowering tree in the center and a large bush on the left. A steep, vegetated slope rises on the left side of the yard. In the background, a wooden fence and distant mountains are visible.

slope







wind



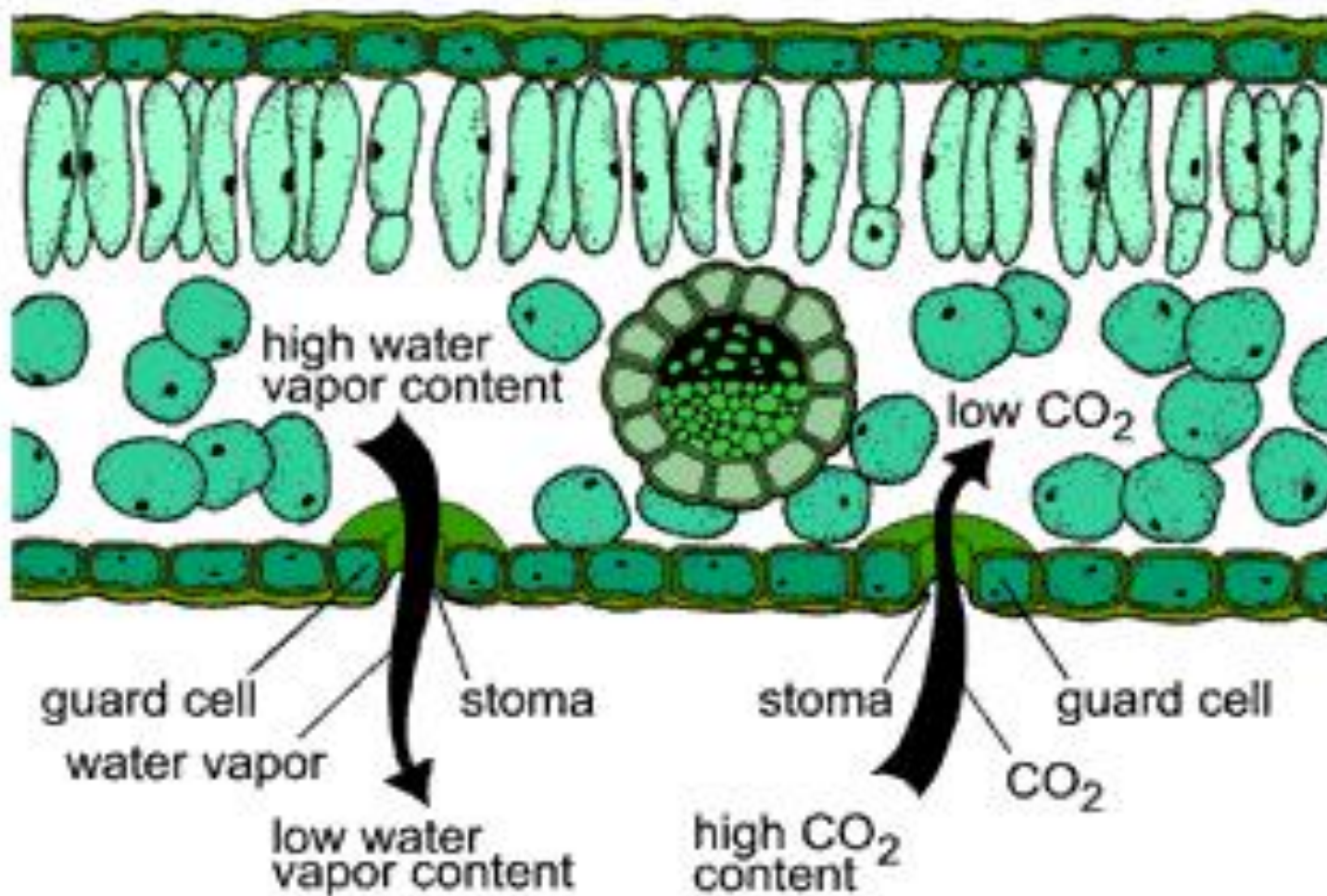
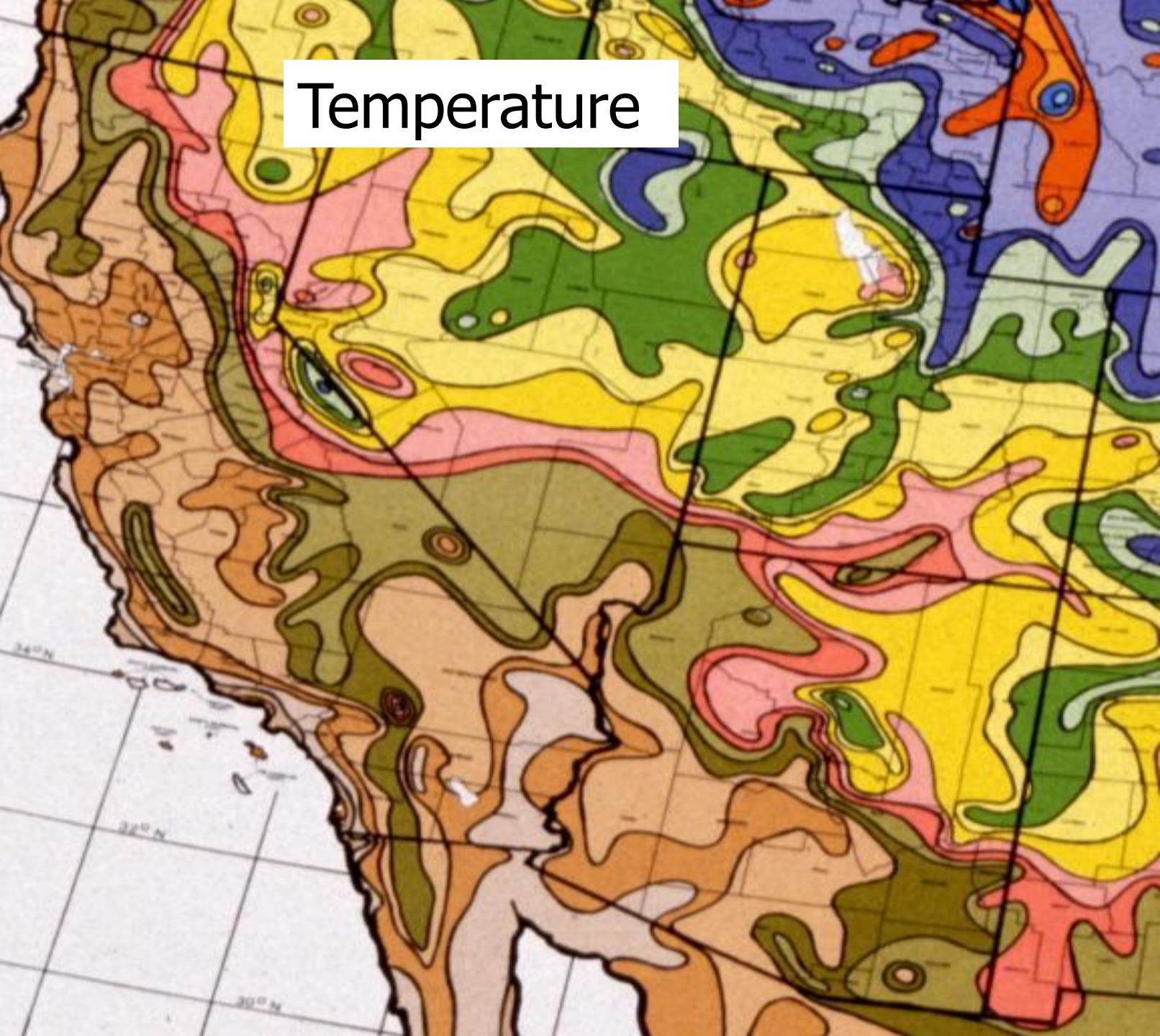


Figure 25. Stomata open to allow carbon dioxide (CO₂) to enter a leaf and water vapor to leave.

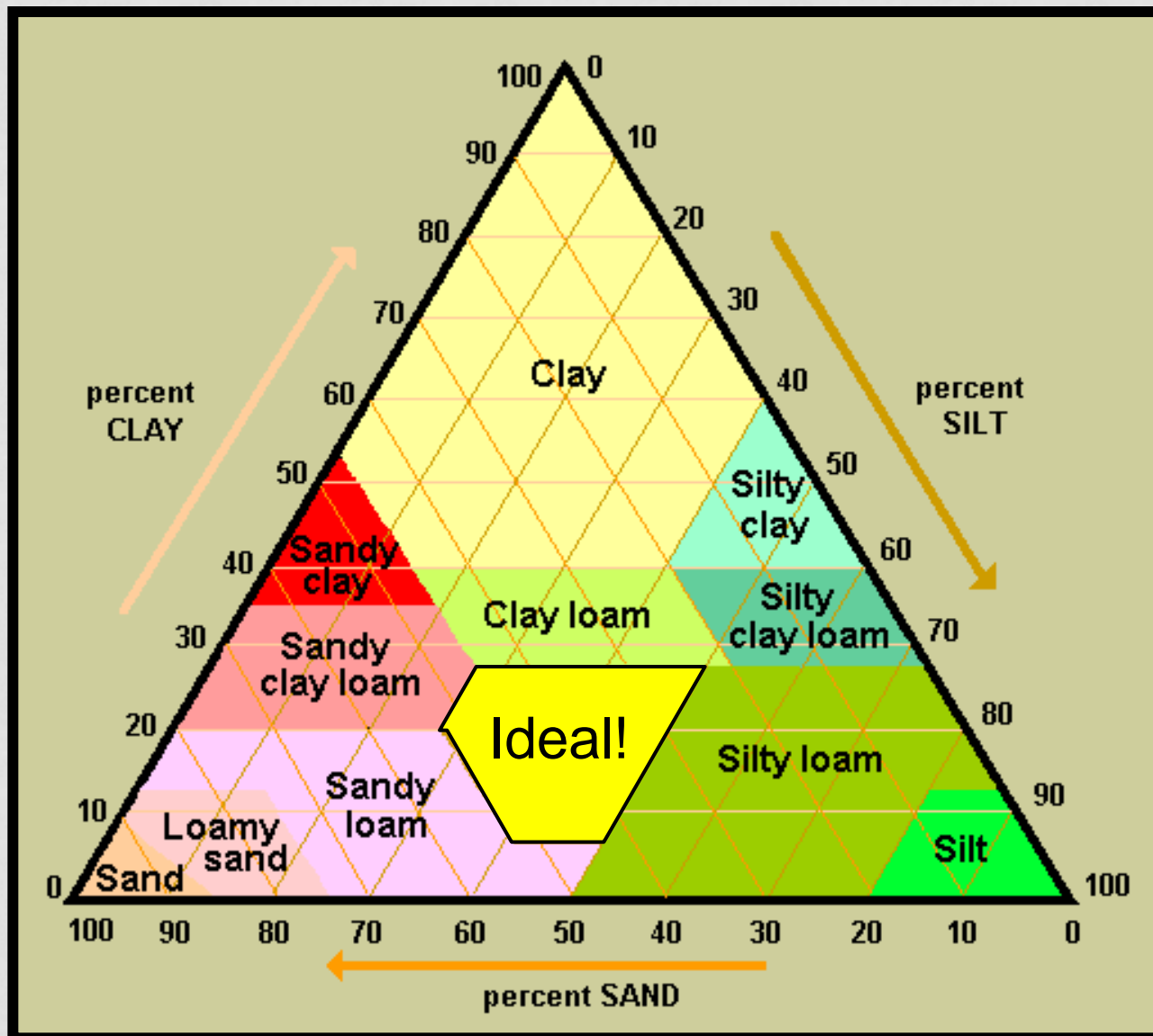
Temperature

Average Annual
Minimum Temperature

ZONE	Zone	Temperature
1	1	Below -50 F
2a	2a	-50 to -45 F
2b	2b	-45 to -40 F
3a	3a	-40 to -35 F
3b	3b	-35 to -30 F
4a	4a	-30 to -25 F
4b	4b	-25 to -20 F
5a	5a	-20 to -15 F
5b	5b	-15 to -10 F
6a	6a	-10 to -5 F
6b	6b	-5 to 0 F
7a	7a	0 to 5 F
7b	7b	5 to 10 F
8a	8a	10 to 15 F
8b	8b	15 to 20 F
9a	9a	20 to 25 F
9b	9b	25 to 30 F
10a	10a	30 to 35 F
10b	10b	35 to 40 F
11	11	Above 40 F



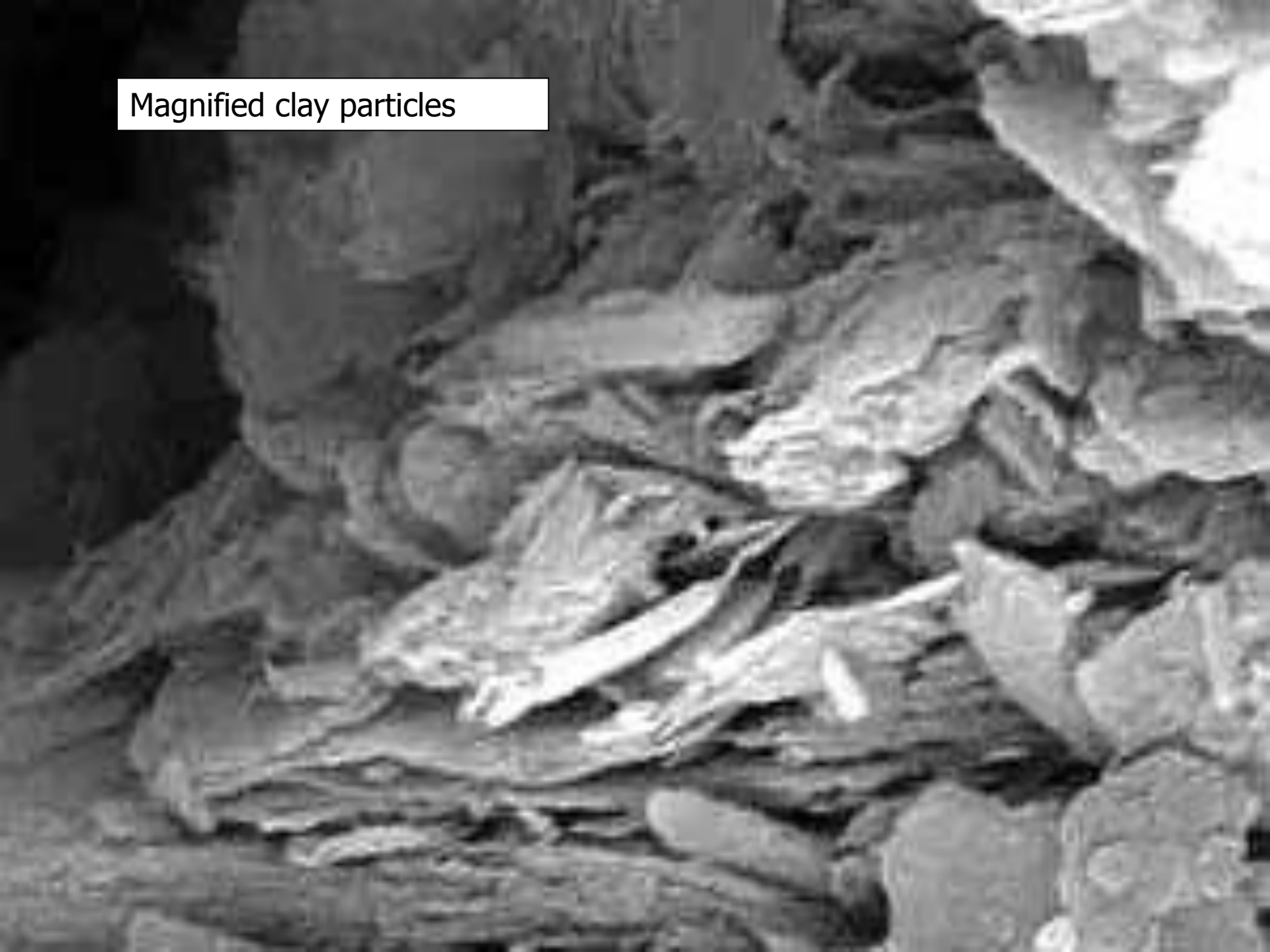
The Soil Textural Triangle

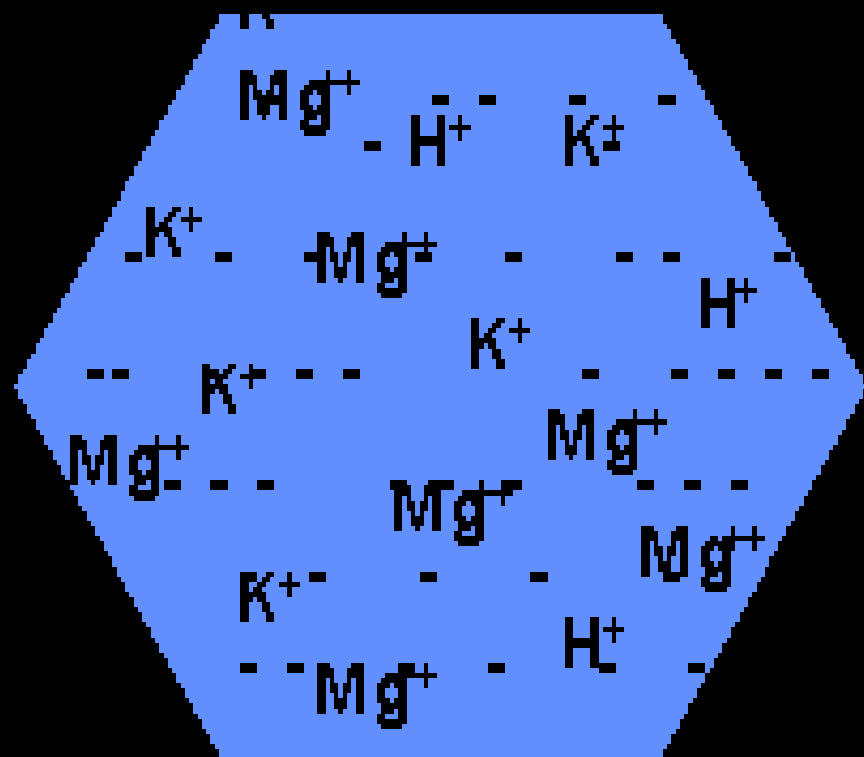


Clay soil



Magnified clay particles





APPLICATION OF BASICS

- Locate Hydrozones
- Plant with the Seasons
- Distinguish between established and new plantings
- Water deeply & infrequently
- Schedule irrigation wisely
- Change your Gardening Environment

Hydrozones

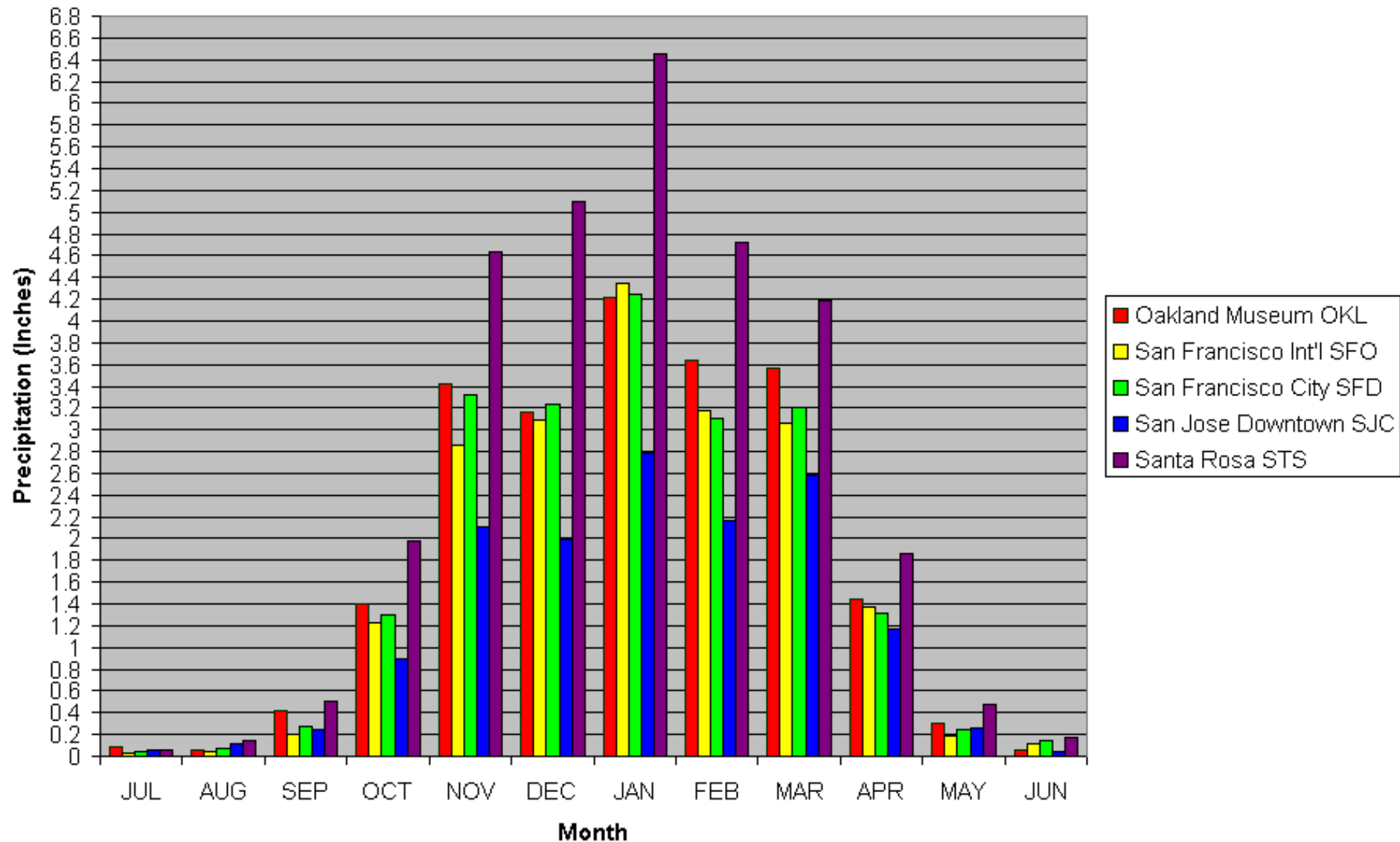
Group plants with similar water requirements

- Vegetable garden
- Lawn
- Dry sunny slope
- Shady protected area
- Container plants
- Herbaceous border
- Tree and Shrub border



Plant with the Seasons

Monthly Precipitation Averages

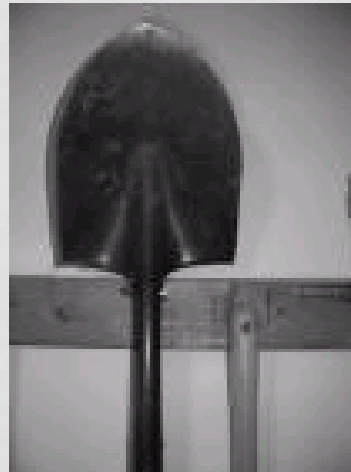


Water Deeply and Infrequently

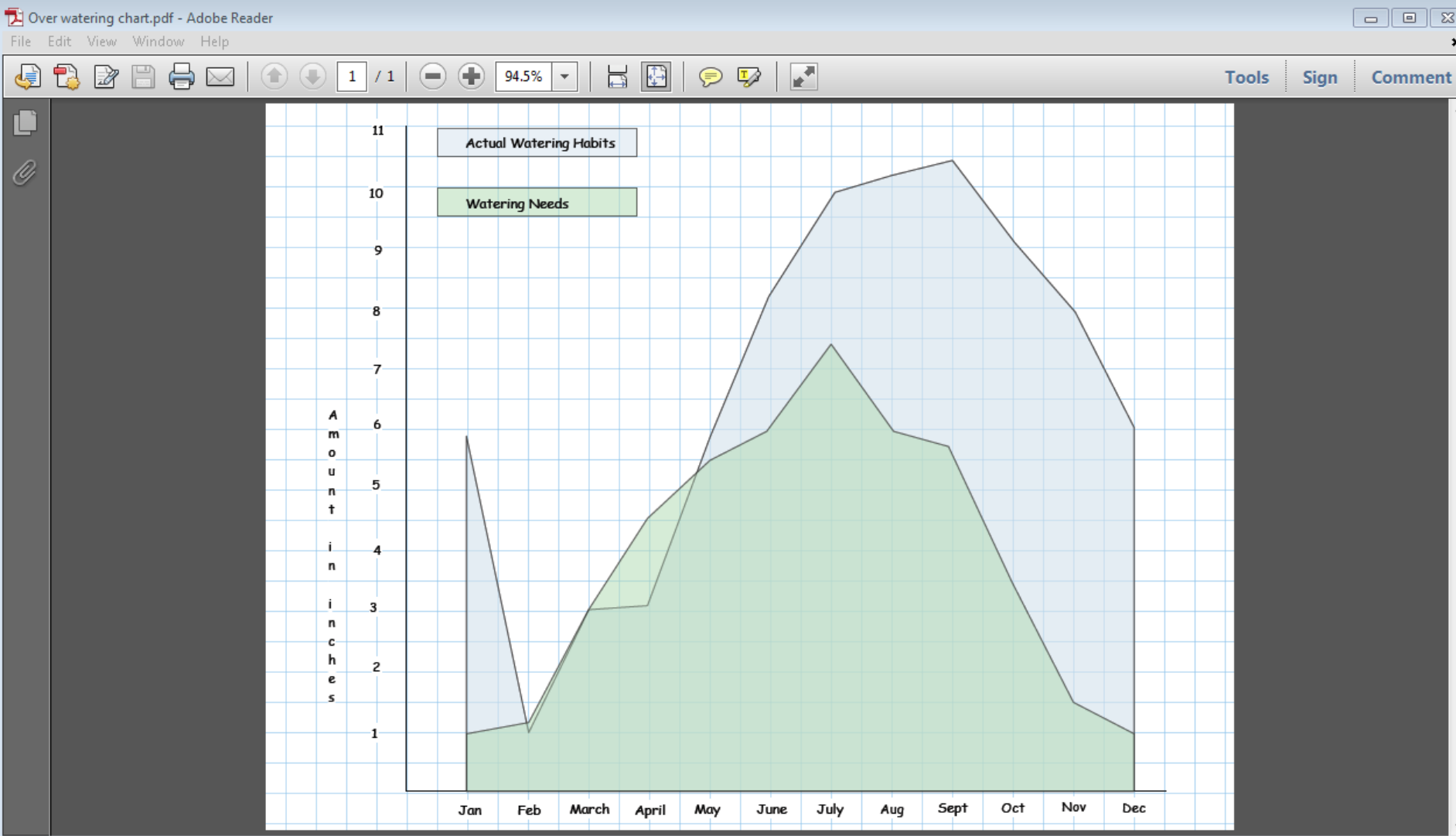
Use a Prod

Use a Shovel

Use high-tech moisture reader



Allow top two inches of soil to dry between watering cycles
(established plantings only)



Schedule Irrigation Wisely

WATER BY THE HOLIDAYS



Easter
40%



Cinco de Mayo
60%



Fourth of July
100%



Labor Day
60 %



Halloween -
30 % (or OFF!)



Thanksgiving
OFF

CHANGE THE ENVIRONMENT

- Think outside the box
- Structural changes
- Alter the soil
 - Aeration
 - Amendments
 - Mulching



Think outside the box



Structural changes



Use Drought Tolerant Plants



Do you really need a lawn?

1/3 or less !

Before



Newly Planted Lawn Rebate Yard



18 months later





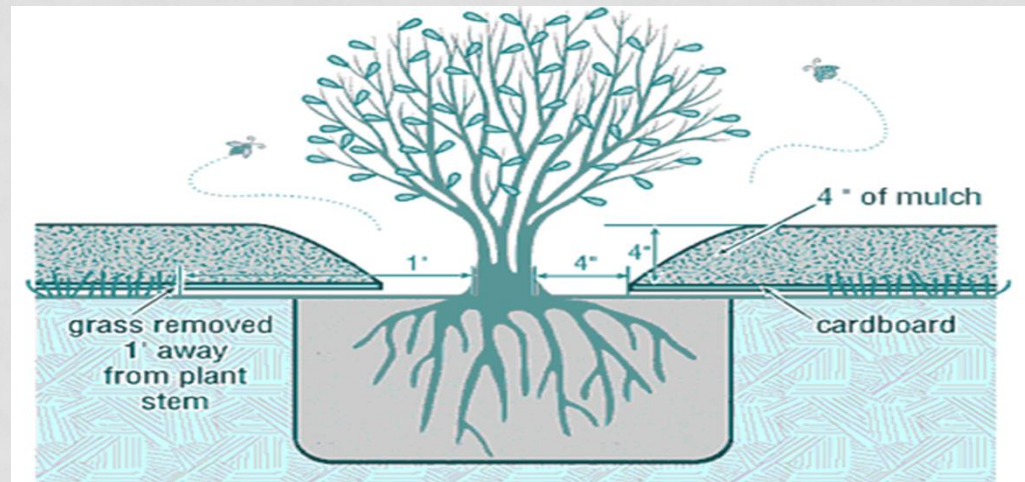


Aerate your soil, it adds oxygen to the soil

Amend your soil using compost



Mulch your soil for protection



Bay Friendly is Water Friendly



Bay Friendly gardening builds a healthy soil that in turn supports a healthy environment

A Bay Friendly Project



Front Yard

Before



A Bay Friendly Project



Front Yard

After

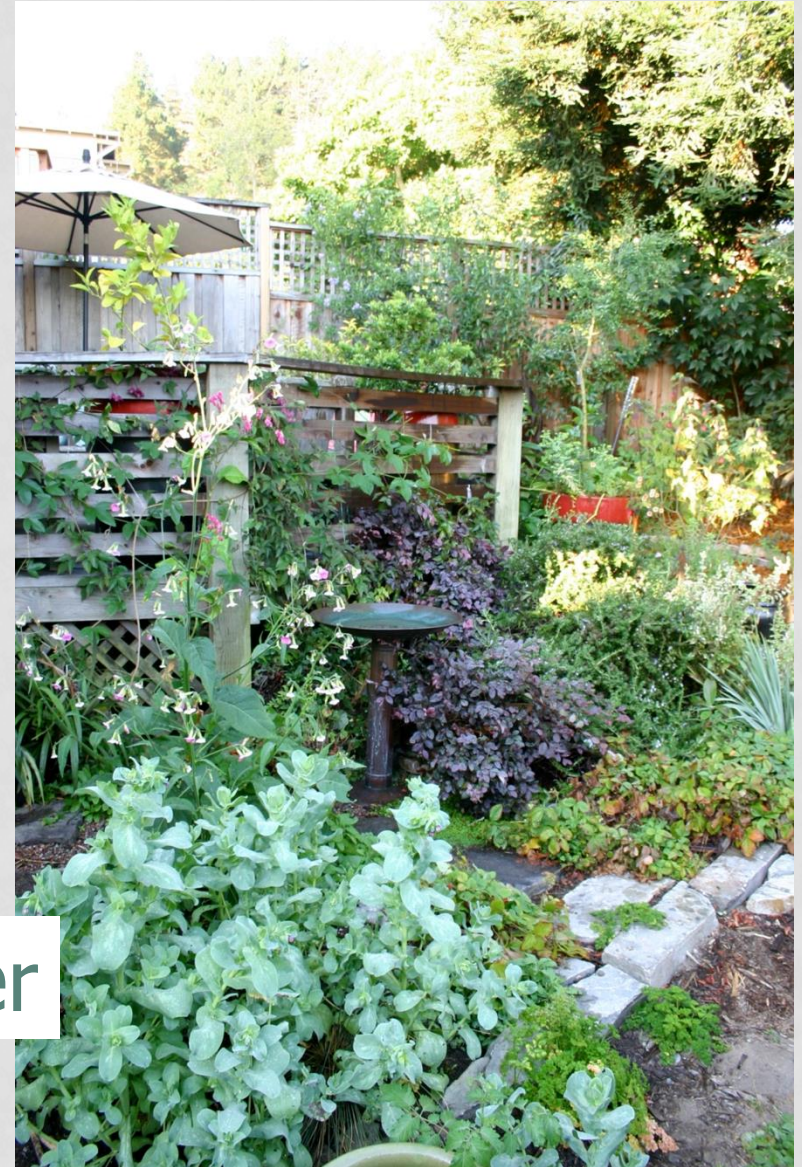


A Bay Friendly Project

Back Yard



Before



After

The Bay Friendly Process



Find a Location



Mow the weeds
Lay out the cardboard



Dig holes for large plants
Lay out irrigation
Top with 3-4"compost and 3-4"mulch



Watch things grow!

HOW MUCH MULCH?

Depth of mulch	Volume required to cover 100 Sq. Ft.
1/2"	4 cu. ft.
1"	8 cu. ft.
2"	17 cu. ft.
3"	1 cu. yd.

Trick: cubic feet required = area (sq. ft.) x depth (inches) / 12

This applies to water also, 1 cubic foot of water = 7.48 gallons

QUESTIONS ?

THANK YOU
FOR
COMING TONIGHT!