UC Master Gardeners Of Napa County

Welcome!

Sustainable Vegetable Gardening, part 3

March 8, 2020

UC Master Gardeners of Napa County

University of California
Agriculture and Natural Resources | Master Gardener Program

UC Master Gardeners Of Napa County

Housekeeping Details

Introduction of Master Gardeners

Did you sign in and verify your email address?

Location of restrooms down the hall

Checking in: How did your seeds do?

Checking in:
How are your transplants?

Checking in:

How is your garden plan coming?

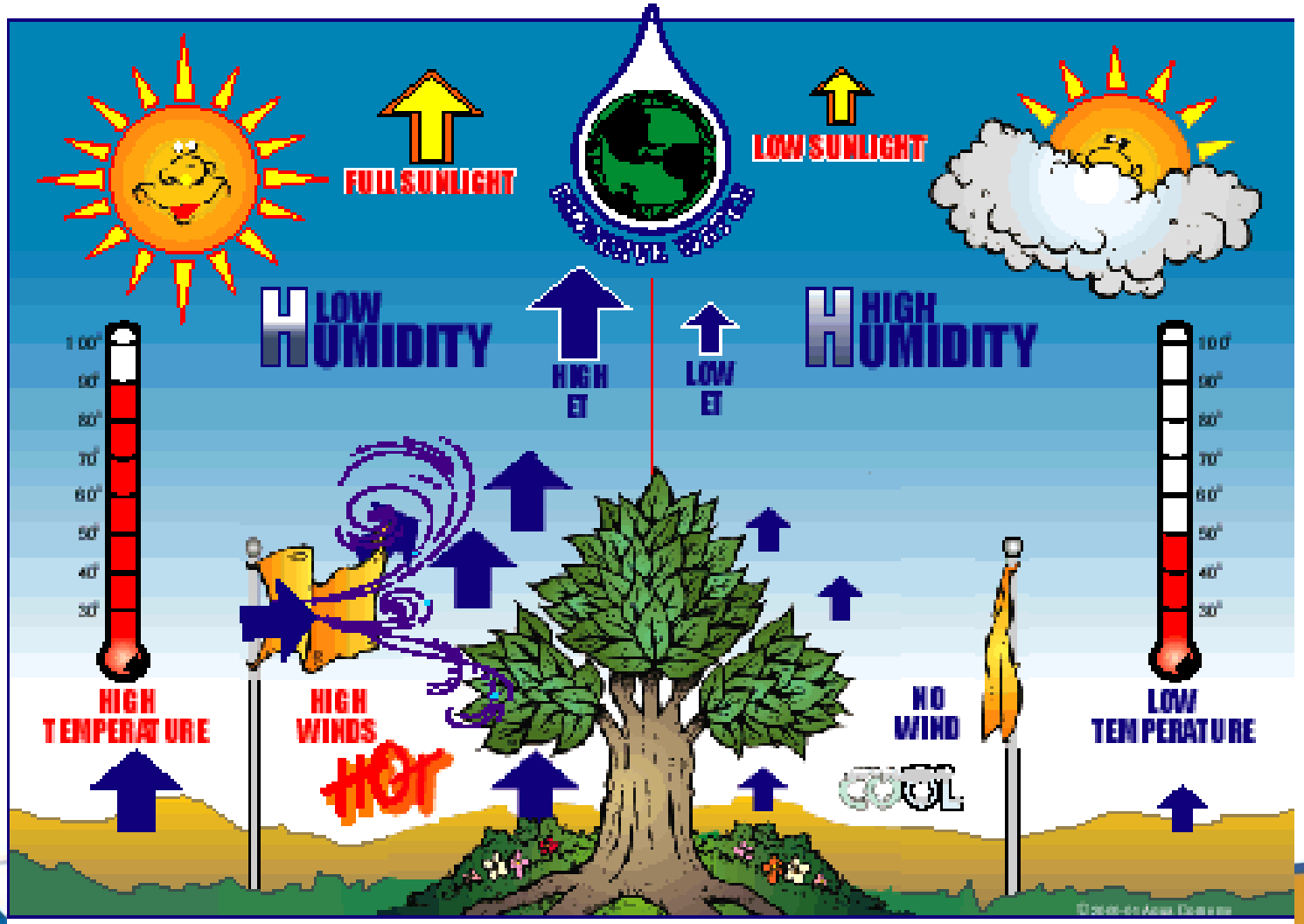
Today's Topics:

Watering

Weeds

Cool season Veggies and IPM

Evapotranspiration



Overwatering

Underwatering

Uneven watering

Stages of plant growth

When not to water

Hand Watering

Overhead sprinklers

Soaker hose

Drip irrigation

Timer and back flow preventer

Battery-operated timer

Backflow preventer

Filter and pressure reducer

Filter **Pressure reducers**

Hose end irrigation hookup

Mulch, organic or non-organic

Non-organic mulches

Is this a weed?

Is this a weed?

Cultural Methods

Mechanical Methods

Chemical Methods: not recommended for vegetable gardens

Biological Methods

Purslane - summer annual

Burclover - summer annual

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Cheeseweed - winter annual

Filaree - winter annual

Annual Grasses

Crabgrass (summer)

Bluegrass (winter)

Dandelion
simple perennial

Bermuda Grass
creeping perennial

Oxalis (Bermuda buttercup) bulb-forming perennial

Oxalis (Woodsorrel) creeping perennial

Nutsedge
creeping perennial

Field Bindweed
creeping perennial

http://ipm.ucanr.edu/PMG/weeds_intro.html

Enter Search Terms

UNIVERSITY OF CALIFORNIA AGRICULTURE & NATURAL RESOURCES

UC IPM

Statewide Integrated Pest Management Program

PRINT

HOME

ON THIS SITE

- What is IPM?
- Home & landscape pests
- Agricultural pests
- Natural environment pests
- Exotic & invasive pests
- Weed gallery
- Natural enemies gallery
- Weather, models & degree-days
- Pesticide information
- Research
- Publications
- Events & workshops
- Online training
- Links

Weed photo gallery

The UC IPM Weed Photo Gallery includes many, but not all, weed species commonly found in California farms and landscapes.

Choose a category below or skip to a **LIST OF ALL WEEDS**.

Identify your weeds

Broadleaf
Leaves are wide, veins branch out in different directions.
Identification | **Tutorial** | **Broadleaf list**

Grass
Leaves are narrow, arranged in sets of two; stems are rounded or flattened.
Identification | **Tutorial** | **Grass list**

Warm Season Crops

- Grow best 65 to 95 Degrees
- Are injured or killed by frost

Cool Season Crops

- Grow best 55 to 75 Degrees
- Tolerate some amount of short-term freezing (frost tolerant)

Annual Weather Averages Near Napa

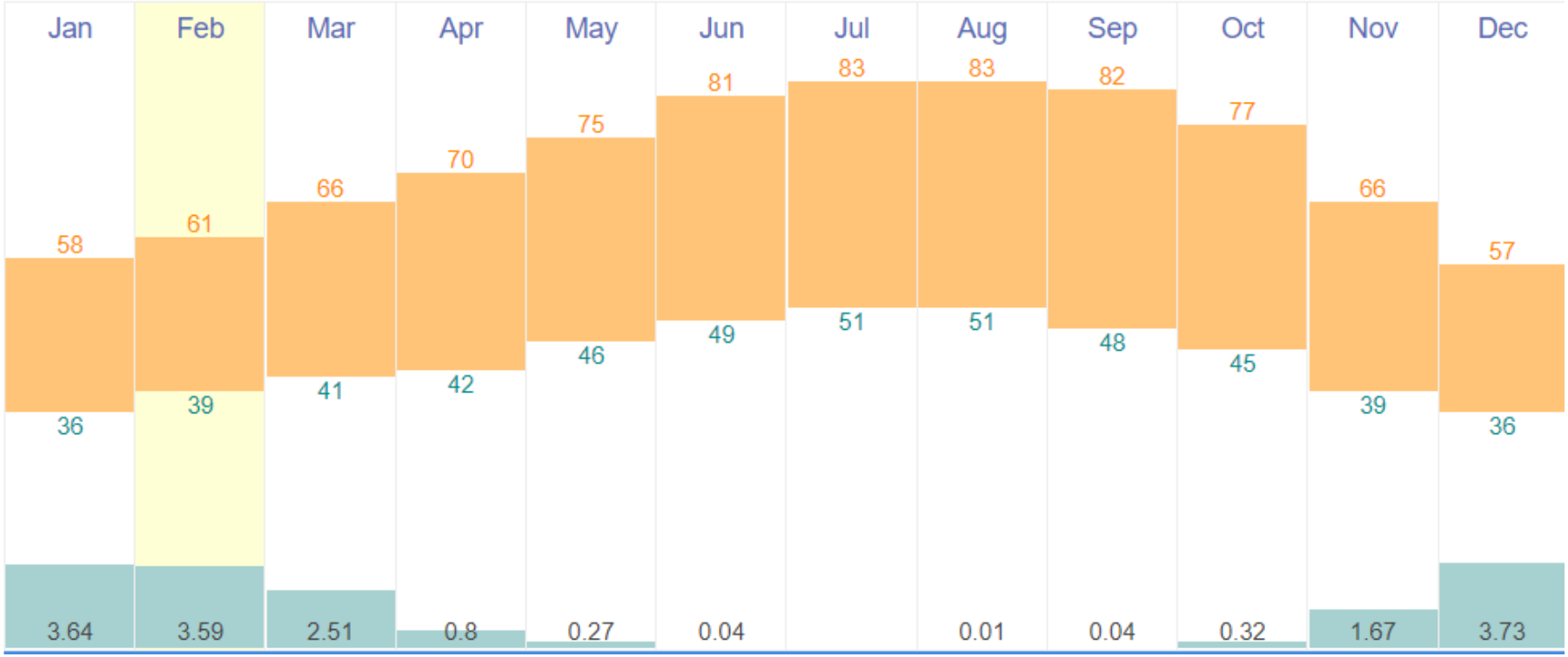
Averages are for Napa County Airport, which is 6 miles from Napa.

Based on weather reports collected during 1985–2015.

Annual Weather Averages Near Calistoga

Averages are for Santa Rosa Sonoma County Airport, which is 14 miles from Calistoga.

Based on weather reports collected during 1985–2015.



Salad greens: Lettuce

Butterhead

Romaine

Batavian

Salad greens: Lettuce

Looseleaf

Mix (mesclun, others)

Lettuce: Snails and slugs

Row cover to protect seedbeds

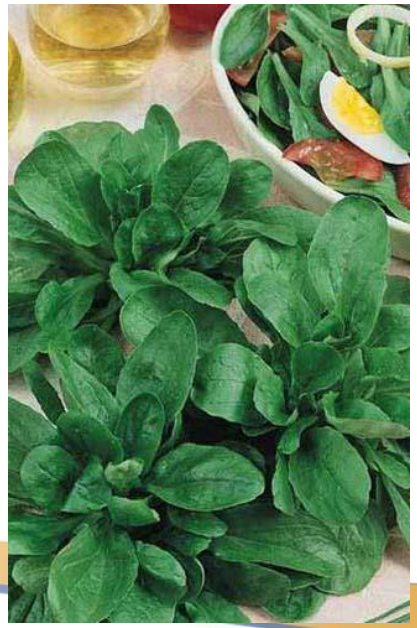
Salad greens: Arugula

Annual – *Eruca sativa*

Perennial – *Diplotaxis erucoides*

Salad greens: Frisée, escarole, mâche

Frisée



Mâche

Escarole

Spinach

Peas

Shelling

Snow or peapod

Sugar snap

Peas: Powdery mildew

Chard

Bright Lights

French White

Chard: Aphids

Parasitized aphids

Beets

Chard: Leafminer

Greens: Kale

Red Russian

Nero di Toscano

Greens: Mustards

Southern Giant Curled, Red

Red mustard, mizuna

Greens: Asian

Bok choy

Tatsoi

Komatsuna

Cabbage family: Broccoli

Imported cabbageworm

Cabbage looper

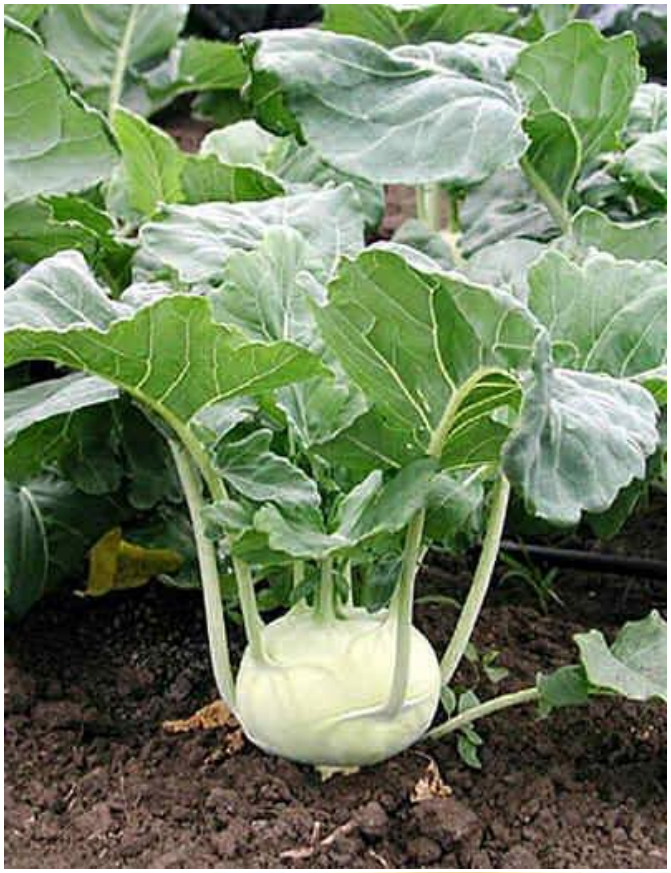
Biological control of caterpillars
Bt: *Bacillus thuringiensis ssp kurstaki*

Broccoli: Downy mildew

Cabbage family: Cauliflower

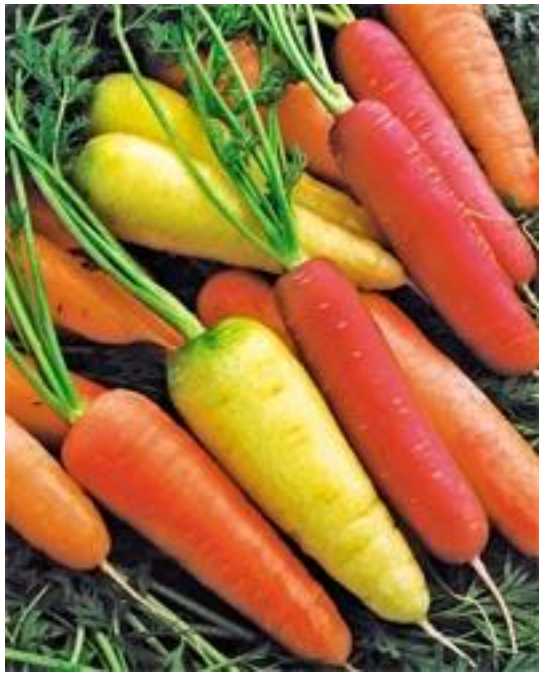
Romanesco, Graffiti, Early Snowball

Cabbage family: Kohlrabi



Cabbage family: Brussels sprouts

Root crops: Carrots



Root crops: Radishes, turnips, rutabagas

Radishes

Turnips

Rutabagas

Edible Alliums

- Bulbing onions
- Green onions
- Garlic
- Leeks
- Shallots
- Chives

Integrated Pest Management

Convergent lady beetle and larva

Adult and Nymph of minute pirate bug, *Orius tristicolor.*

Soldier beetles, leather-winged beetles

Green Lacewing, adult and larva

Lacewing larva attacking aphids

http://ipm.ucanr.edu/index.html

Enter Search Terms

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UC IPM

Statewide Integrated Pest Management Program

What is IPM? | Identify & Manage Pests | Research | Publications | Training & Events | Links | About Us | Contact Us | Subscribe

Solve your pest problems with UC's best science

What's New

- **Pest Alert!** Agriculture: Peach Root-Knot Nematode Pest Alert. New nematode to California.
- Ag Pest Management: Citrus revised, Asparagus updated
- Pest Notes: Armillaria Root Rot added, Roses: Diseases and Abiotic Disorders, Plantains, Cockroaches, Deer, Roses: Insects and Mites revised
- Retail Nursery & Garden Center IPM Newsletter: Winter 2019
- Green Bulletin: Fall 2019
- Weed Photo Gallery: Italian thistle and slenderflower thistle added.
- More...

MAKE A GIFT | *Support UC IPM's mission to make integrated pest management the way to manage pests*

Home, Garden, Turf & Landscape Pests

Agricultural Pests

Natural Environment Pests

Exotic & Invasive Pests

For next week

- Warm season Vegetables
- More IPM
- Crop Rotation for soil health