

Vegetable Gardens, Hugelkultur, and Wicking Beds

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Zilker Botanical Garden Austin Area Garden Center





Vegetable Gardening Methods

- Garden Templates
- Companion Planting
- Square Foot Gardening
- Double-Dig Method
- Hugelkultur
- Ollas
- Wicking Beds



Types of Veggie Garden Beds



In-ground plots using existing soil



Container gardening



Raised beds with wooden frames, 4' x 8'

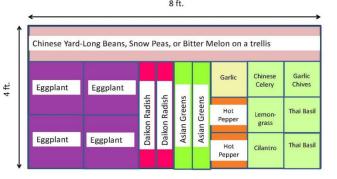


Elevated beds - may be ideal for seniors and ADA access

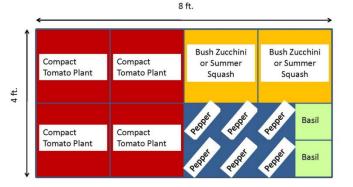


Garden Templates

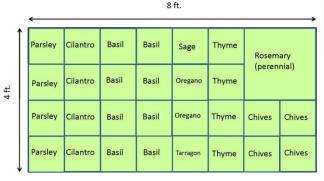
- Can help you map out what you want where in advance
- Great for school gardens, church gardens



Asian Garden

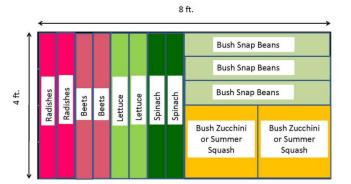


Summer Only Garden



Culinary Herb Garden

Thyme, Chives, Oregano, Tarragon, Sage, and Rosemary are perennials



Fall Garden

http://thedemogarden.org/garden-templates/



Garden Templates



http://www.gardeners.com/on/demandware.store/Sites-Gardeners-Site/default/Page-KGPJS Gardener's Supply Company



Garden Resources



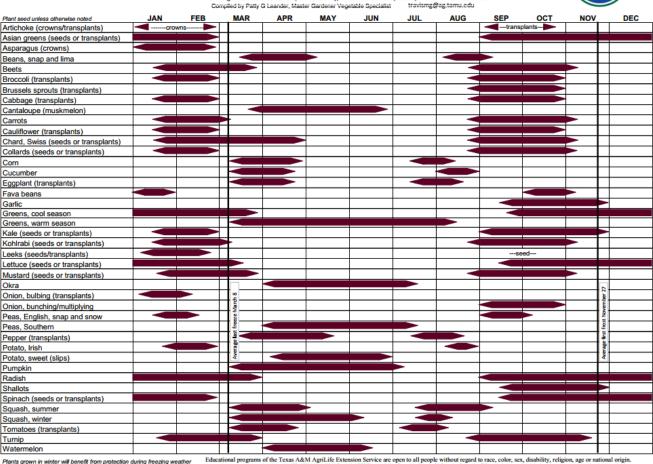
Vegetable Garden Planting Guide

STATE OF THE STATE

Daphne Richards, County Extension Agent - Horticulture

Texas AgriLife Extension Service, Travis County, 1600-B Smith Road, Austin, TX 78721 512-854-9600

Compiled by Dath C Learner Master Grades Measured Services Lands



Plants grown in winter will benefit from protection during freezing weather

Plants grown in late summer will benefit from shade cover during establishment

Educational programs of the Texas A&M AgriLife Extension Service are open to all people without regard to race, color, sex, disability, religion, age or national origin.

The Texas A&M System, USDA and the County Commissioners Courts of Texas cooperating.

January 2012



Companion Planting

Compatible pairings:

- Beans with cucumber, peas, and lettuce
- Broccoli with onion
- Cauliflower with celery
- Eggplant and spinach
- Leeks with carrots
- Lettuce with strawberries or radishes
- Onions with bell pepper
- Potatoes with sweet corn
- Squash with sweet corn
- Swiss chard with onions

Incompatible pairings to avoid:

- Asparagus and garlic
- Beans and onions
- Beets and beans
- Broccoli and beans
- Cabbage and strawberries
- Carrots and celery
- Corn and tomatoes
- Onions and peas
- Potatoes and tomatoes

Marigolds repel Mexican bean beetles, squash bugs, thrips, tomato hornworms, whiteflies, and nematodes!



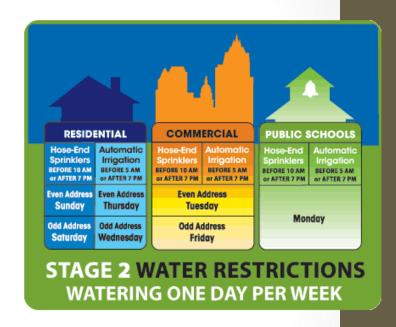
Waterwise Gardening Methods





Drought Restrictions: Alternative Compliance for Vegetable Gardening

- Austin City Code now allows an exemption to drought restrictions that permits watering of vegetable gardens using:
 - Hand watering
 - Soaker hoses
 - Drip irrigation
- NO sprinklers, no unattended watering of veggie gardens





Hugelkultur

- Essentially, making raised garden beds filled with rotting wood
- Use up rotting wood, twigs, branches and even whole trees that would otherwise go to the dump or be burned
- Avoid using cedar, walnut or other tree species deemed allelopathic.



raised garden bed hugelkultur after one month



raised garden bed hugelkultur after one year

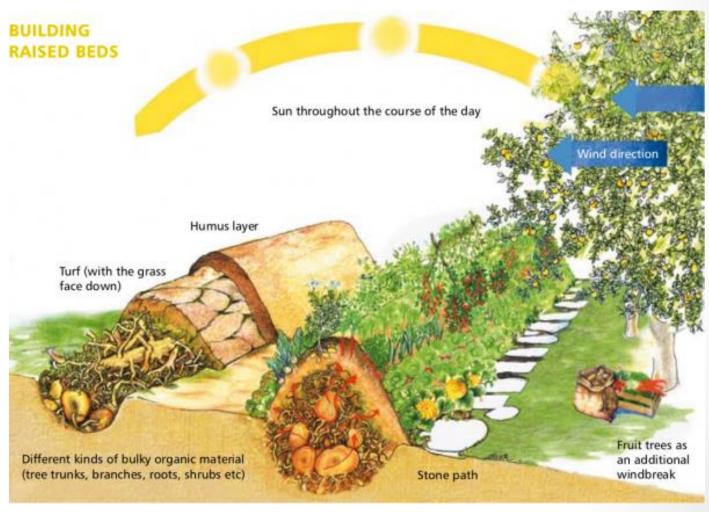


raised garden bed hugelkultur after two years

Source: Paul Wheaten, http://www.richsoil.com/hugelkultur/



Hugelkultur



Source: http://www.permaculture.co.uk



Hugelkultur Basic Steps

- Select area approx. 6 feet by 3 feet
- Gather material:
 - fallen logs, branches, fallen leaves
 - nitrogen-rich material (kitchen waste/manure)
 - top soil
 - mulching material (such as straw)
- First layer: logs
- Second layer: branches, twigs (roughly til it's 3 feet high)
- Water these layers
- Fill in the space between with leaf litter, manure, kitchen scraps
- Top off the bed with 1-2 inches of top soil and a layer of mulch



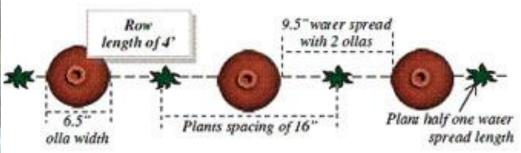


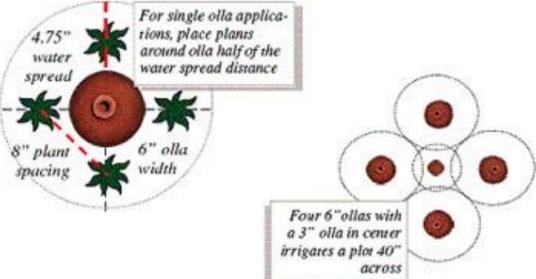
Ollas



- Porous clay pot buried in the ground with neck exposed
- Water 1-2 times per week
- Water seeps into soil at slow rate so nearby plants have a constant root-level water source
- Low tech, low cost irrigation
- Dry soil surface = less weeds, less compaction!

Ollas - Spacing







Round container
Olla width: 8"
Container size: 18" diameter
Water spread: 18" diameter
Plant spacing: varies with
plant type

Source: permaculturenews.org

Wicking Bed Construction



Location: Zilker Botanical Garden

Wicking Bed Construction – Sand Base



Location: Zilker Botanical Garden

Wicking Bed Construction – Pond Liner



Wicking Bed Construction – Pipe Covered with Pea Gravel



Wicking Bed Construction – Filter Fabric



Wicking Bed Construction – 2nd Sand Layer



Wicking Bed Construction – 2nd Layer Filter Fabric



Wicking Bed Construction – Compost



Wicking Bed Construction



Location: Zilker Botanical Garden



Gardening and Wicking Bed Free Resources

Dillo Dirt

City of Austin Water Utility http://www.austintexas.gov/dillodirt

Free Dillo Dirt for projects with non-profits, parks, and schools. Offered by the dump truck load. Must pick up from Hornsby Bend Biosolids Management Plant located at 2210 South FM 973 Austin, TX 78725.

Contact: Jody Slagle (512) 972-1954 Jody.Slagle@austintexas.gov

Free Seeds, Seedlings, and Compost

http://www.sustainablefoodcenter.org/GL harvest.html

Participate in Sustainable Food Center's Spread the Harvest food sharing program and receive seeds, seedlings, and compost for your garden. Contact Grow Local at Contact: (512) 236-0074 x 105

Free Woodchips

City of Austin Resource Recovery Center

Free mulch is available to the public at the City of Austin Landfill on a first-come, first-served basis. Please bring pitchforks, bags and shovels to load the mulch yourself.

Contact: 3810 Todd Lane Austin, TX 78744. (512) 974-4373

Monday - Friday; 8 a.m. to 4 p.m.; Closed Saturday and Sunday

Burlap Sacks:

Contact a coffee shop near you. Many are willing to donate their old burlap sacks.



"Just Seeds": Seed Saving Basics

Deep Roots: Edible Flowers

Deep Roots: Fruit Tree Care

Get Growing: Fall Pests & Diseases

Get Growing: Container Gardening

Get Growing: Propagation & Greenhouses

Grow Local Classes in the Teaching Garden

Gardening workshops in our on-site garden that promise participants of all levels a hands-on experience exploring home food gardening topics!

Prices start at just \$12!



For more information and to register: http://www.sustainablefoodcenter.org/ grow-local/upcoming-classes



6:00 pm - 8:00 pm

1:00 pm - 3:30 pm

6:00 pm - 7:30 pm

1:00 pm - 3:30 pm

10:30 am - 12:00 pm

10:30 am - 12:00 pm

	GROW LOCAL	,	SUSTAINA BLE FOO
Class:	Date:	Time:	

Sept 3, 2014 6:00 pm - 7:30 pm

Get Growing: Soil Health & Composting

Deep Roots: Raised Bed Construction Sept 13, 2014 10:00 am - 12:30 pm Get Growing: Plan Your Fall Garden Oct 8, 2014 6:00 pm - 7:30 pm

Oct 23, 2014

Nov 8, 2014

Nov 8, 2014

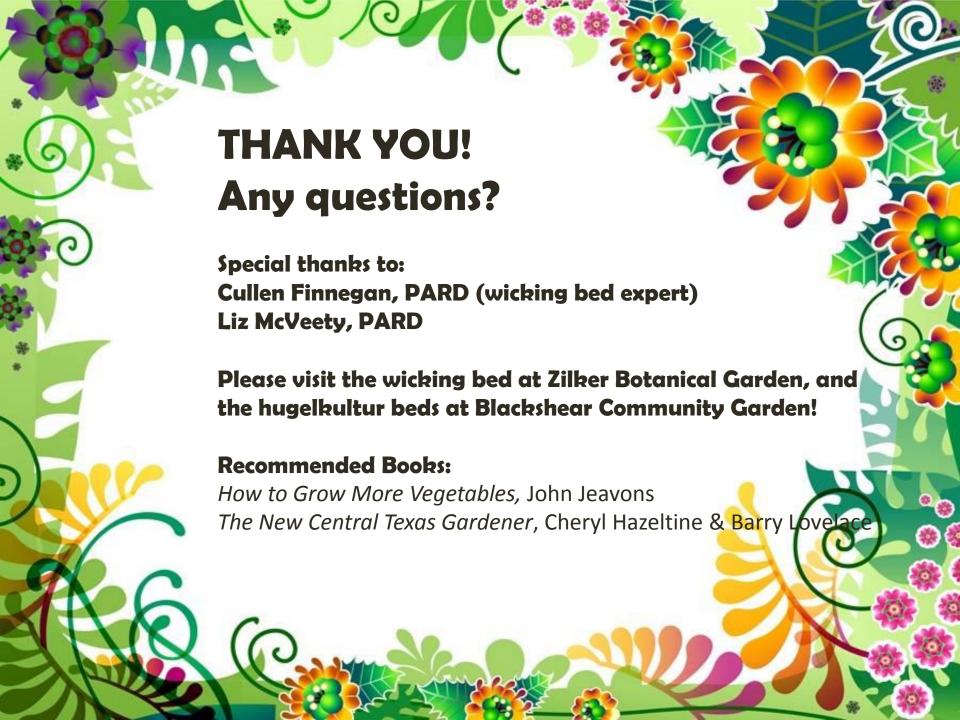
Dec 3, 2014

Dec 6, 2014

Dec 6, 2014

Deep Roots: Rain Gardens

Oct 18, 2014 10:00 am - 12:30 pm

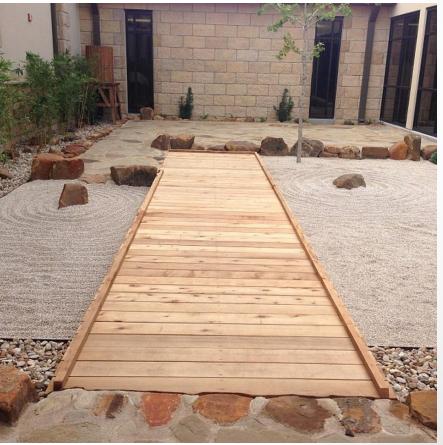


BREAK - Visit the Zen Garden



Before

After



BREAK - Visit the Zen Garden

