

SMART COMANION PLANTING IDEA

CORN: Provide Structure

BEANS/PEAS: Brings up nitrogen from the soil to feed the corn

SQUASH: Keeps the roots cool

a gardenlab project

ible

EDITION TWO:



CUT AND REMOVE SOD: Provides planting area ROLL-UP AND PLACE TOGETHER: Makes a perfect love seat so you can sit in your garden with your friends admire all your hard work.



You will need a compost bin-this can be made of wood

chips, and low grade paper.

Add water regularly so the compost pile remains damp. Pile should be turned once a week and will be ready to be added to a garden in about a month.

It is important to have a 50/50 ratio of nitrogen rich (green/wet) and carbon rich items (dry) in your compost.

0BBIGATION

DRIP OR TRICKLE	Allows water to be emitted uniformly and slowly at the plant location so that the majority of the water is placed in the root zone.
PLASTIC OF PAPER MULCHES	Greatly reduces evaporation losses from the soil surface. If the mulch is opaque, it also will control weeds, which rob your soil of moisture.
ORGANIC MULCHES	Includes shavings, compost, rice hulls, bark, straw, newspaper and similar materials. Place on a layer that 2-3" thick to be the most effective. In addition to their value for moisture conservation, they can be tilled into the soil after cropping to improve the organic content.
WEED CONTROL	Essential to reduce competition between crops and weeds for soil moisture. Best and easiest to remove weeds while the weeds are small.
SELECT CROPS W/ LOWER WATER USE	Plants with shallow root systems will require more frequent irrigation to maintain a healthy growth rate. Also, be certain to plant crops at the time of year when they are best adapted. See planting calendar for planting times and root depths.
PROPER TIMING AND AMOUNT OF IRRIGATION	Where drip irrigation is to be used, the system should be operated frequently to maintain soil moisture (letting the soil go too dry is also a waste of water because it affects overall yield)—general rule is about an hour every 2-3 days (greater frequency for shorter periods may be needed during hotter weather for shallow-rooted crops).

GOMPOSTING REMEDIES

PROBLEM	CAUSE	CURE				
	Too wet	Mix pile or add coarse, dry material + mix				
FOUL ODOR	Not enough air	Turn pile				
	Too much nitrogen	Add more brown materials + mix				
	Pile too small	Build larger pile				
	Pile too dry	Mix pile and add moisture				
PILE NOT HEATING	Poor aeration	Mix pile				
	Not enough nitrogen	Add more green material and mix				
	Materials too coarse	Chop or shred materials				
PILE ATTRACTING PESTS	Wrong materials used	Remove all meat and dairy				
	Kitchen waste on top	Bury kitchen waste; layer with brown materials				

PLANTING GALENDAR

SOUTHERN CALIFORNIA	JAN	FEB	MAR	APR	ΜΑΥ	JUN	JUL	AUG	SEP	ост	NOV	DEC
Asparagus (‡)	•	•	•									
Beans, Snap (†)			•	•	•	•	•	•				
Beans, Lima (†)				•	•	•	•					
Beans, Fava (†)	•									•	•	•
Beets (+)	•	•	•	•	•				•	•	•	•
Broccoli (+)*	•	•	•					•	•	•	•	•
Brussel Sprouts (+)*							•	•	•			
Cabbage (+)*	•	•	•				•	•	٠	•	•	•
Cantaloupe (†)				•	•	٠	•					
Carrots (†)	•	•	•	•	•	•	•	•	•	•	•	•
Cauliflower (+)*	•	•					•	•	•	•	•	•
Celery (+)	•	•						•	•	•		
Chives (+)	•	•										
Collards (+)	•	•						•	•	•	•	•
Corn (‡)			•	•	•	•	•					
Cucumbers (†)			•	•	•	•	•					
Eggplant (†)*			•	•	•							
Endive (+)	•	•	•						•	•	•	•
Herbs (‡,†)	•	•	•								•	•
Jicama				•	•							
Kale (+)	•	•							•	•	•	•
Kohlrabi (+)									•	•		•
Leeks (+)	•	•	•						•	•	•	•
Lettuce (+)	•											
Mustard (+)	•	•		•					•	•	•	•
Okra (†)				•		•						
Onions, Bulb (+)	•											
Onions, Bunching (+)	•	•							•	•		
						•				•		•
Parsley (†)			•	•	•	•						
Parsnips (‡)	•	•	•	•	•					•		
Peas (†)	•	•							•	•	•	•
Peppers (†)			•	•	•	•	•					
Potatoes (‡)	•	•	•	•								
Popcorn (‡)				•	•	•	•					
Pumpkins (‡)				•	•	•						
Radishes (+)	•	•	•	•	•	•	•	•	•	•	•	•
Roquette	•	•	•						•	•	•	•
Rutabagas									•	•	•	
Spinach (+)	•	•	•							•	•	•
Squash, Summer (†)		•	•	•	•	•	•	•				
Squash, Winter (‡)		•	•	•	•							
Sunflowers (‡)		•	•	•	•	•	•					
Swiss Chard (†)	•	•	•	•	•				•	•	•	•
Tomatoes (‡)*		•	•	•	•	•						
Turnips (+)	•	•	•	•	•	•	•	•	•	•	•	•
Watermelons (‡)				•	•	•	•					
Winter Zucchini (†)									•	•		

ТҮРЕ	ADVANTAGES	DISADVANTAGES
SLOW OUTDOOR PILE	Easy to start and add to. Low maintenance.	Can take a year or more to decompose. Nutrients are lost to leaching. Can be odorous and attract animals and flies.
HOT OUTDOOR PILE	Fast decomposition. Weed seeds and pathogens are killed. More nutrient-rich because less leaching of nutrients. Less likely to attract animals and flies.	Requires lots of effort to turr and aerate and manage the process. Works best when you have lots of materials to add right away, as opposed to a little bit at a time.
BINS AND BOXES	Neat appearance. They heat more easily than a pile. Deters animals. Lip keeps rain off compost. If turned, decomposition can be quite rapid.	Cost you time to build the bins or money to buy them.
TUMBLERS	Self-contained and not messy. Can produce quick compost. Relatively easy to aerate by turning the tumbler. Odor not usually a problem. No nutrient leaching into ground.	Tumblers are costly. Volume is relatively small. Works best if material is added all at once.
PIT COMPOSTING	Quick and easy. No maintenance. No investment in materials.	Only takes care of small amounts of organic material.
SHEET COMPOSTING	Can handle large amounts of organic matter. No containers required. Good way to improve soil in large area.	Requires effort to till material into the soil. Take several months to decompose.
PLASTIC BAG OR GARBAGE CAN	Easy to do all year-round. Can be done indoors. Requires no back labor.	Is mostly anaerobic, so smell can be a problem. Can attract fruit flies. Need to pay attention to carbon/nitrogen ratio to avoid a slimy mess.
WORM COMPOSTER	Easy. No odor. Can be done indoors. Can be added to continuously. So nutrient- rich, it can be used as a	Requires some care when adding materials and removing castings. Need to protect worms from

RESOURCES

BOOKS:	<i>The Complete Book of Edible Landscaping,</i> Rosalind Creasy, A Sierra Book Club Book, 1982. Also see other books by this author. (This is the definitive book on the topic!)
	How to Grow more Vegetables: and Fruits, Nuts, Berries, Grains, and Other Crops Than you Ever Thought Possible on Less Land Than You Can Imagine, John Jeavons, Ten Speed Press; 6th edition, 2002.
	Encyclopedia of Edible Plants of North America, Francois Couplan, Keats Publishing, 1998.
	The Rodale Book of Composting: Easy Methods for Every Gardener, Grace Gershuny, Rodale Books, 1992.
	Designing and Maintaining your Edible Landscape Naturally, Robert Kourik (introduction by Rosalind Creasy)
	Front Yard Gardens: Growing More Than Grass, Liz Primeau
	Pat Welsh's Southern California Gardening: A Month-By-Month Guide, Pat Welsh
	Slow Food Los Angeles www.slowfoodla.org
MISC:	Los Angeles Master Gardening Program celosangeles.ucdavis.edu/garden Master Gardener Email Gardening Helpline mglosangeleshelpline@ucdavis.edu Master Gardener Phone Helpline 323-260-3238
	Griffith Park - Free compost and classes by master composters 323-913-4166

MARE YOUR ONN EDIGLE ESTATE

WHAT YOU WILL NEED:

A rented sod-cutter

A truck load of compost, calculated to cover the size of your estate

1. Use a sod-cutter to remove existing grass, roll it up, give it away, compost it, or find a new use for it

BASIC INSTRUCTIONS:

THINGS TO CONSIDER:

Where is south? Where are the shady and sunny areas?

Where should tall trees or lower groundcover go? Are there views to frame or obscure?

Shovels, hand trowels and rakes

Friends and neighbors to help

Irrigation system, such as soaker hoses

Stakes and string

Fencing material to deter animals

Selected vegetables, herbs and fruits as seeds, starts, or trees for your region

2. Use roto-tiller to loosen compacted soil

3. Spread around about 2-5 inches of compost

4. Till the soil again to mix in the new compost

5. Mark out a plan for your edible estate with stakes and string

6. Plant your seedlings, starts, trees and seeds according to the planting calendar

7. Water them in thoroughly with a garden hose

8. Install an 18" – 24" fence to deter local animals, like rabbits, if you have problems

9. Establish composting system

What do you want to eat from your estate?

What can't you get from the grocery store?

A lot of fruits and vegetables grow on vines, do you have something for them to grow on?

How do you want to move through the edible estate? Where should paths go?

What kind of mulch to use? Straw, bark, compost, and leaves will retain moisture, block weeds and decompose into the soil.

Is there an area in your estate for people? A place to relax and enjoy the plants and food growing?

MMM.EO/GLEESPATES.ORG

Edible Estates is a gardenlab project. Founded by Fritz Haeg in 2001, Gardenlab initiates ecology based art

THE CHEF

Blue Velvet Restaurant Rooftop Garden

.is an attack on the American front lawn and everything it has come to represent. NR. SAP Estates

reconciles issues of global food production and urbanized land use

with the modest gesture of a domestic garden.

is an ongoing series of projects to replace the American front lawn with edible garden landscapes responsive to culture, climate, context and people.

design proposal, a scientific horticultural experiment, a conceptual is a practical food producing initiative, a place-responsive landscape

land-art project, a defiant political statement, a community out-reach program and an act of radical gardening.

OUR LAWNS

maintenance while contaminating our air and water? requires the consumption of so many precious resources and endless hours of Why do we dedicate so much land to something with so little function that

an ornamental sweeping lawn would occupy otherwise valuable farmland surrounding a manor estate, demonstrating the owner's wealth while keeping the production of his vegetable garden out of view. In this tradition, today's suburban carpet of conformity. Originally manicured by grazing animals, represents has shifted from its ancestry in English estates to today's endless The American front lawn is almost entirely a symbolic gesture. Exactly what it

> occupied when they are being tended. American lawn has become the default surface for any defensible private space An occasional lawn for recreation can be a delight, but most lawns are only

groundwater and 23 have the ability to leach into groundwater sources. is drugged with pesticides that are then washed into our water supply with of our greenhouse gas emissions. To eradicate invading plants and pests it The lawn devours resources while it pollutes. It is maniacally groomed with sprinklers and hoses dumping our increasingly rare fresh drinking resource mowers and trimmers powered by the two-stroke motors responsible for much down the gutter. Of the 30 commonly used lawn pesticides, 17 are detected in

349 million acres are used for crops. sprawling communities. The mono-culture of one plant species covering our neighborhoods from coast to coast celebrates puritanical homogeneity and land that we wrap ourselves with, reinforcing the suburban alienation of our The lawn divides and isolates us. It is the buffer of anti-social no-man'smindless conformity. Lawns cover 40 million acres of the United States while

OUR FOOD

produced commodity we are consuming. Perhaps we have even forgotten that plants were responsible for this industriallyproduce in the average American dinner is trucked 1,500 miles to get to the plate. We don't know where our fruits and vegetables came from or who grew them. to inhibit diseases and pests that thrive in an unbalanced ecosystem. Organic vegetables wrapped in plastic and styrofoam are cultivated not for taste, but for ease of transport, appearance and uniformity, then sprayed with chemicals farming accounts for less than 1% of the United States agriculture output. The Meanwhile at the grocery store we confront our food. Engineered fruits and

> direct evidence that we will ultimately ingest it. what we put down the drain, on the ground and in the air if there was more This detachment from the source of our food breeds a careless attitude towards our role as custodians of the land that feeds us. Perhaps we would reconsider

THE EDIBLE ESTATES INITIATIVE Edible Estates proposes the replacement of the American lawn with a highly

productive domestic edible landscape. Food grown in our front yards will connect us to the seasons, the organic cycles of the earth and our neighbors. The banal lifeless space of uniform grass in front of the house will be replace with the chaotic abundance of bio-diversity. In becoming gardeners we will reconsider our connection to the land, what we take from it and what we put in it. Each yard will be a unique expression of its location and of the inhabitant Each yard will be a unique expression of its location and of the inhabitants banal lifeless space of uniform grass in front of the house will be replaced

and their desires. Valuable land will be put to work. The Edible Estates project will be implemented in nine cities in the United States over the next three years. An adventurous family in each town will offer their typical suburban front lawn as a working prototype for the region. They will dare to defy the sweeping continuity of their neighborhood's green lined streets. Working together with the family and additional helpers, the front lawn will be removed and replaced with an edible landscape. This highly productive garden will be designed to respond to the unique characteristics of the site, the needs and desires of the owner, the community and its history and especially the local climate and geography.

our yards, Edible Estates takes on our relationship with our neighbors, the source of With the modest gesture of reconsidering the use of our small individual private food and our connection to the natural environment.

> production until the population boom and subsequent water wars of the 1920s. Land use was still more than 20% agricultural in 1969. While the population of Los a welcome location for the production of food. It was once home to the largest concentration of wine vineyards in the country and was the capital of citrus Since settled by native humans thousands of years ago, L.A. has always been farmland a day LOS ANGELES is the site for the second application of Edible Estates initiative Angeles County rose almost 50 percent in the 1950s, it sacrificed 3,000 acres of

run for an hour. More than 50% of domestic water use in Los Angeles is used to produces the same amount of harmful, smog-forming emissions as 40 new cars of urban 'progress'. This city, once a combination of fertile flood plain and low chaparral is now 90% covered with pavement or buildings. Lawns cover more of warehouses) an inconvenience whose value is unrecognized by the march keep lawns green. contribute significantly to our poor air quality. Every hour of lawn mowing the case of the South Central Farm, which was recently bull-dozed in favor than 1.6 million acres in California and the emissions produced by lawnmowers Today urban agriculture remains only an occasional novelty in the city or (in

accessible public green space. We think Los Angeles is ready for Edible Estates! Estate. A lawn is an easy target in a region that receives no rain for most of the A few other factors make Los Angeles a perfect place to introduce the Edible focused on the introverted refuge of the private house with a corresponding lack of year, and the suburban front lawn in particular is ripe for reconsideration in a cit

2000

manicured green. The concurrent east coast version of Levittown, the city of Lakewood sits on what was once a massive sugar beet plantation. It is the last 3 months of 1950, families moved to Lakewood at a rate of 25 a day in Lakewood that the Lakewood Park Company introduced assembly line 3,500 acres in just over a year at a rate of about 1000 homes per month. In housing developments to California. They constructed 17,500 homes on the American dream of every house presented on an ornamental carpet of many ways the birthplace of the suburban front lawn as we know it today ecent Edible Estate. This iconic housing developr Lakewood, California is home to the Foti family, owners of the most ient of the 1950s is in

social place for plants, animals and humans? mowed, weeded and chemically drugged space between me on the street turn their front yard into both a place for food production and a site for a and you in your house becomes an activated, fertile, productive, diverse, suburban land use experiment. What happens when that vacant, watered, As owners of the Lakewood Edible Estate, we have helped the Foti Family

curated by Irene Tsatsos, an exhibition of projects by contemporary LA artists presented at the L.A. County Fair in September 2006. collaboration with the Millard Sheets Gallery as a part of "Fair Exchange" Machine Project is Edible Estates' headquarters, workshop and town hall during the month of October 2006. The Lakewood garden is produced in

Machine Project vww.machinepro

Fair Exchange

1101 W. McKinley Ave, Pomona, CA 91768 September 8th Millard Sheets Gallery - October 1st, 2006

Headquarters and Workshop Edible Estates

1200 D North Alvarado Street LA, CA 90026 September 29th - October 30th ect.com

SYNTHETICSCAPES





Established October 2006 Blue Velvet Restaurant **Rooftop Garden**



THANKS TO:

akewood edible estate owners Alichael, Jennifer, Cecilia and June Foti

reston Brown Winston Kahn Daniel Procter Roopa Shenoy Melissa Mcdonnell

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INTS AND MATERIALS PROVIDED BY mstrong Garden Centers

len, Director of Machine Project atsos, "Fair Exchange" Curator on at the L.A. County Fair ig, Millard Sheets Gallery Directo

DENLAB TEAM ie Bachler and Aubrey White

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