# Extending the Urban Growing Season



# How did the Urban Agriculture Program Start?

 Americorp OSM/Vista position for 3 years was awarded to Jefferson Conservation District in a suburb of Denver, CO



#### JCD aligned with Vista Position

 Americorp OSM/Vista mission is to reduce poverty through programs and strategies that reduce hunger, create jobs and increase access to fresh locally grown food.



#### OSM/VISTA 1st Phase Accomplishments 2010-2011

- EBT machine-Snap benefits at Farmers Market
- Community needs assessment
- Changes to Zoning code to make urban agriculture easier for farmers



## OSM/VISTA 2<sup>nd</sup> Phase Joint Position with Harvest Mountain Farm (2012-

2013)

- Junior Master Gardener Program Summer Camp
- Harvest
   Mountain
   Farm
   Garden Building
   Capacity



# OSM/VISTA 3<sup>rd</sup> Phase (2013-2014)

- Senior Classes at local community center
- Continued JMG program
- Meet with 10-15 local producers, conservation planning
- Trained new full time position for Urban Agriculture



#### Urban Agriculture Program 2015

- Conservation Planning
- USDA NRCS EQIP Programs
- Junior Master Gardener Program
- Workshops, Classes, Presentations
- Website, Twitter, Facebook
- Land Link Options
- Networking, Events and Farmer to Farmer meetings
- Healthy Food for Healthy Kids
- Colorado Agriculture Leadership Program



#### High Tunnels

Join us for a workshop on using high tunnels for season and profitability extension

Robert Rimol of Rimol Greenhouses will be on hand to discuss product selection, location, and uses of high tunnels

Jim and Christian Toohey will share some of their experiences with high

tunnel farming

Thursday November  $6^{\rm th}$ , 2014  $1-4~{\rm pm}$  Toohey and Sons Organic Farm 7849 Ute Hwy, Longmont, CO





RSVP: Joni Burr 303-776-4034 x108 Joni.Burr@co.nacdnet.net Sponsored by:

Longmont & Boulder Valley Conservation Districts

Maintaining Agriculture in a Growing Urban Environment

#### High Tunnel Workshops

#### Junior Master Gardener



- 3<sup>rd</sup>-5<sup>th</sup> Graders
- Hands on
- Receive Certificate
- On Farm site
- Working with interns from CU Denver
- Community garden, Goat farm, local farm stand



#### Jefferson County Farm Tour



This educational tour will visit two urban farms in Jefferson County. We will be outside, so please bring sun protection, appropriate clothing for the weather, and shoes for walking in farm and pasture fields. Lunch and transportation will be provided.

Questions about the tour? Contact Jennifer Cook 303-659-7004 ext.3 Jennifer.cook@colostate.edu Agenda

8:00 - 8:30 am 8:30 - 9:00 am 9:00 - 9:30 am 9:30 - 10:00 am 10:00 - 10:30 am 10:30 - 11:30 pm 11:30 - 1:00 pm 1:30 - 2:30 pm

2:30 – 3:00 pm 3:00—3:30 pm Saturday Oct. 18, 2014

8:00 AM to 3:30 PM

CSU Extension Meeting Rm ECMR Jefferson County Fairgrounds 15200 W. 6<sup>th</sup> Avenue, Golden, CO 80401

For more info and to register go to www.ext.colostate.edu/sam/farm-tour.html

\$15 per person, \$20 per couple Register by Oct. 10 (Max 40 people)

Registration (coffee) and Introductions
Travel to Go farm at Brunel property
Overview of farm and property
Considerations for Starting a New farm
Grass ID and Dryland Pasture Management
Soil Pit and Soils Discussion
Lunch (provided) and Travel to Jefferson Farm
Raising Alpacas
Irrigated Pasture Management
Manure Composting
Wrap-up and Evaluations, Travel to Fairgrounds

# Education: Farm Tour with Experts



Colorado State University Extension and USDA-NRCS cooperating. Programs are available to all without discrimination. If you need special accommodation(s) to participate in the event listed, please contact Jennifer Cook at 303-659-7004 ext.3 or Jennifer.cook@colostate.edu. Your request must be submitted at least 5 days in advance of event.

### What type of Urban Agriculture is in Jefferson County?

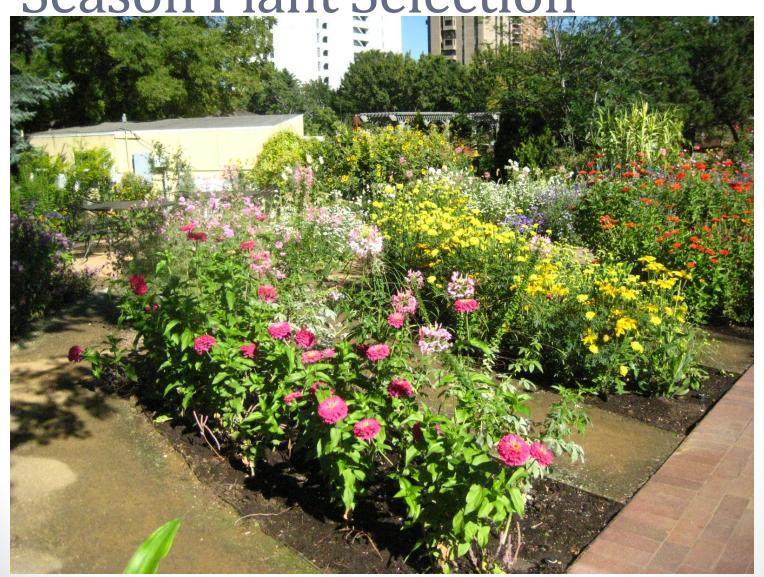
- 16 Community Supported Agriculture
- 3 Restaurant Supported Agriculture
- 3 Backyard Farm Model
- 2-3 Food Hub models being developed
- 3 Pumpkin Patch
- 1 Hops
- 5 Cattle, 1 Buffalo
- 2 Alpacas, 3 Goat, 1 Yak
- 2 Herbs, Microgreens
- 3 Aquaponics/hydroponics
- Chicken, Honey, Soil, Eggs
- 1 Organic Orchard
- Vineyards



#### Aquaponics Year Round Harvest



#### Cut Flower Production- Extend Season Plant Selection



Dehydrator- Dried Flowers



#### Popular Winter Plants

- Sorrel
- Corn salad
- Lettuce
- Spinach
- Parsley
- Winter Onions
- Kale
- Endive
- Chervil
- Leeks
- Swiss Chard/ Mustard G.
- Rosemary/Tarragon

- Scallions
- Cress
- Radish
- Arugula
- Tatsoi
- Raddichio
- Carrot
- Kohlrabi
- Chicory
- Broccoli raab
- Parsnip
- Celery

#### Develop Charts for local climate

Plant Species	Soil Temp	Start Date	Days to Harvest	Notes
Beets	40-80		60	Gets Woody quickly
Broccoli	40-80		65	Second Harvest
Cabbage	40-80		85	Single Harvest
Carrots	40-90		70	Bi Annual
Caulifower	40-90		65	Blanch
Kohlrabi	40-90		50	Single Harvest
Lettuce	35-70		60	Watch bolting

Succession Planting

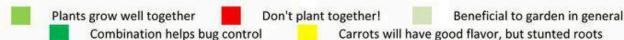
#### Companion Chart

This is just a concept, not set in stone

These associations have just been observed by gardeners

Don't let it overwhelm you, but use as a helpful guide

#### Companion Planting OneCreativeMommyom Strawberries Corn Cucumbers Dill Nasturtium Onion Cauliflowe Rosemary Sage Spinach Oregano Parsley Marigold Peppers Garlic Leeks Lettuce Squash Chives Melon Beans Peas Basil Beans Broccoli Carrots Cauliflower Chives Cilantro Corn Cucumber Dill Garlic Leeks Lettuce Marigold Melon Nasturtium Onion Oregano Parsley Peas Peppers Rosemary Sage Spinach Squash Strawberry Sunflower Swiss Chard Thyme Tomatoes



#### Value Added Products

- Heirlooms
- Storage Life
- Canning
- Certified Kitchen requirements
- Cottage Food Laws
- Depends on state and local rules
- Food Safety Concerns





High
Tunnel
Harvesting
in Nov

#### Double Blanketing



#### Use Straw on outside in Winter



#### High Tunnel Compost Geo Thermal



#### Small Hoop House or Low Tunnel



#### Keeps plants 20 F warmer





#### Recycled Materials

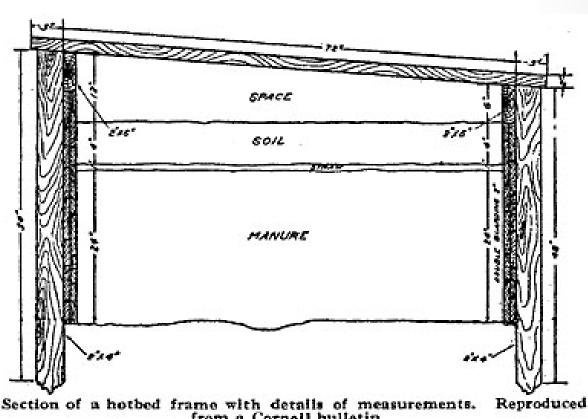
#### Hardening Off with Cold Frame

- Protects
   vegetables from
   unexpected frost,
   wind, snow
- Hardens off so less plant shock in spring
- Can protect plants in fall too!



#### Hot Beds

- Use Manure below frost level
- Add soil on top
- Space for plants to grow
- Cold frame structure



Section of a hotbed frame with details of measurements.
from a Cornell bulletin

#### Wall o' Water



Milk Jug Wall O' Water





#### Frost Cloth



#### Row Cover



#### Old Techniques



#### New Techniques



- Old Suitcase
- Cold Frame
- Seed Starter

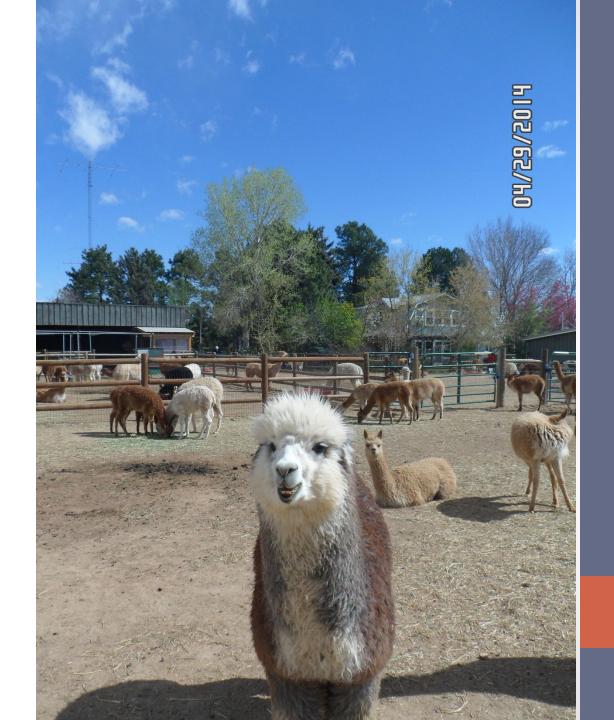
# Diversify Markets

Meat CSA Shares



Get creative with new markets....

Alpacas vicunas in City Limits



#### **Contact Information**

- Maria Bumgarner
- Jefferson Conservation District
- Email: <u>Maria.Bumgarner@co.nacdnet.net</u>
- Phone number 720-544-2869

Thank you!!!