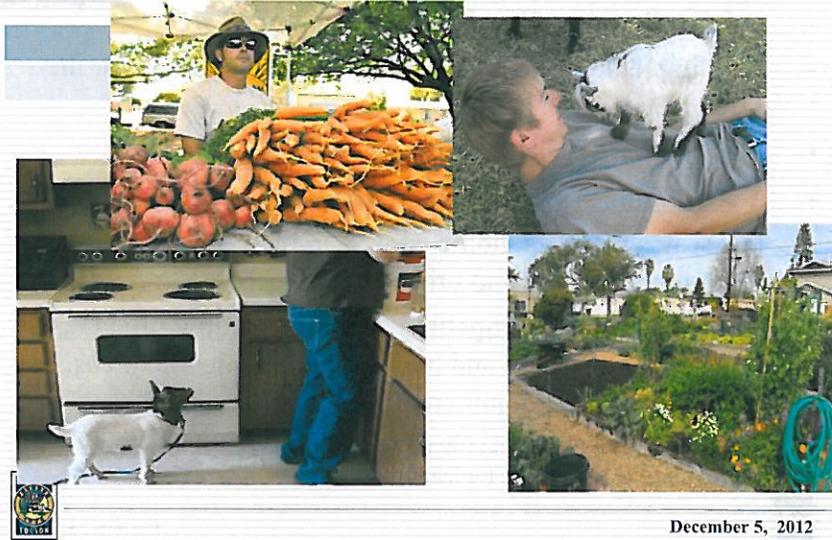


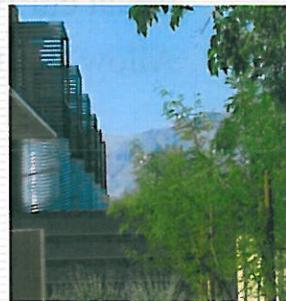
Sustainable Land Use Code – Urban Agriculture



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DOE Energy Efficiency Conservation Block Grant Projects

- Residential energy-efficient retrofit program
- Conversion to energy-efficient lamps in neighborhoods
- Upgrading water booster pumps within City's distribution system
- Solar waste collection containers
- Consolidating of the City's data centers
- Citywide water and energy audits
- Green business certification program
- Voluntary net-zero energy building code
- **Sustainable Land Use Code**



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What is Urban Agriculture?



- Type of infill development involving cultivation, production, and distributing of locally produced food;
- A policy that implements a food security strategy for the City of Tucson;
- Allows limited sales of goods in low intensity areas
- A cultivation system that has different scales and intensity;
- The scales includes home garden and husbandry, community garden, and urban farm.
- The scales can be compatible with surrounding urban land uses such as medium and high density residential areas, mixed use, office, commercial, and industrial areas.
- It entails an urban scale of crop production and animal husbandry that are compatible within the typical urban land use mix



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Home Gardening



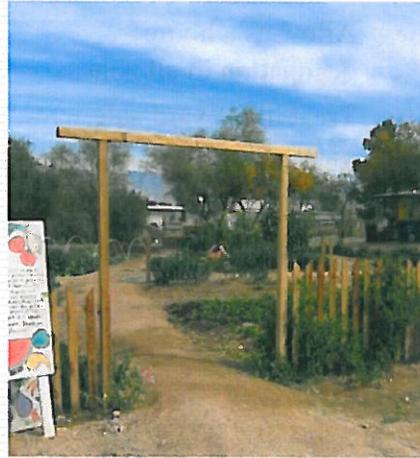
- Create a definition
- Consider scale
- Consider how to distinguish from more intense urban cultivation systems.
- Allow limited animal raising



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Community Gardens

- Create a definition
- Allow as primary and accessory uses – every zone
- Limited incidental sales
- Fencing and composting standards



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Urban Farms



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On – site Sales of Produce in Residential Areas

- Allow as a home occupation in all zones
- Treat like a yard sale
- Sale of unprepared crops grown on site
- May include eggs and honey
- Display notice? – goods sold without a health inspection- at your own risk



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Farmers' Markets Expansion

- Farmers' Markets are seasonal
- Separate out farmers' markets from swap meets
- Encourage farmers' markets in all non-residential zones
- Allow in residential zones for churches, schools and similar uses



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Farmers' Market Standards

- Limit on days per year you can have one in a given place;
- Hours of operation;
- Limit on number of vendors;
- Food-oriented products are predominant;
- Clean up or maintenance policy.



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HISTORICAL PRECEDENTS FOR BACK YARD CHICKEN RAISING

“Every back yard in the United States should contribute its share to a bumper crop of poultry and eggs in 1918.”

Uncle Sam Expects You To Keep Hens and Raise Chickens

Two Hens in the Back Yard for Each Person in the House Will Keep a Family In Fresh Eggs

EVEN the smallest back yard has room for a flock large enough to supply the house with eggs. The cost of maintaining such a flock is small. Table and kitchen waste provide much of the food for the hens. They require little attention—only a few minutes a day.

An interested child, old enough to take a little responsibility, can care for a few fowls as well as a green parrot.

Every back yard in the United States should contribute its share to a bumper crop of poultry and eggs in 1918.

**In Time of Peace a Profitable Recreation
In Time of War a Patriotic Duty**

For information about methods of Back Yard Poultry Keeping suitable your location and conditions, write

**Your State Agricultural College
or
The United States Department of Agriculture
Washington, D. C.**

This poster issued by the National



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Urban Animal Raising

- Allow limited **small** animal raising in R-1, R-2, and R-3 and other urban zones as appropriate
- Chickens, similar fowl, miniature goats, rabbits
- Consider an animal unit based upon waste generation
- Prohibited in front yard some side yard use
- Animal shelter a minimum 20 feet from a residence
- Allow chickens along walls and fences?



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What is a Small Animal?

Small fowl – chickens, ducks, turkeys,

Small rodents – rabbits, guinea pigs

Small ruminants – miniature goats

Not – geese, pigs or other ruminants

Zoning Administrator interpretation of an animal with similar noise and odor features.

Compatible with R-1, R-2, R-3 sized lots

Prohibitions on certain male animals



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Current LUC/UDC Requirements

Ch. 4 Animals and Fowls - All animal structures must be setback fifty feet from an adjoining residence.

The "doghouse exemption interpretation" - A structure less than five feet high and ten square feet in area may be at a zero rear or side yard setback.



December 5, 2012



MINIATURE GOAT INFORMATION

- Mature **does** are 16" to 22 3/8" high, and more slender than bucks.
- Most are friendly and make excellent pets.
- Does have 1 to 3 kids with quads being rare.
- Does at their peak produce 1/2 to 2/3 gallon of milk per day.



- Mature **wethers** (neutered males) are generally larger than does, but not as muscular as bucks
- Most are friendly and make excellent pets.
- All pygmies have horns that are often removed when they are young.
- All pygmy goats have a lifespan similar to dogs, usually 10-15 years.



- Mature **bucks** are 16 to 23 5/8" high and very muscular with a long and thick coat.
- Many are friendly, but have scent glands on their head that emit a "bucky" odor. They also urinate on themselves (to attract does), but does & wethers have no such odor or bad habits.
- Bucks are generally only kept for breeding.

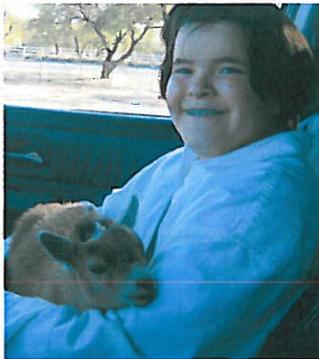
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Summary

- Define urban agriculture
- Clarify terms for gardening types
- Update urban animal raising considering concerns, current interpretations and best practices.
- Allow limited on-site sales in residential areas
- Expand farmers' markets as a permitted use



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Wethers (neutered males) being judged at the fair. These are mature, full-size pygmy goats. The goat in the top photo getting its hooves trimmed is 6 months old.

Goat Agility Course



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Other Sustainable Code Amendments

- Shade structure setbacks
- Rainwater cistern setbacks
- Non-sustainable subdivision private covenants
- Use of organic mulch
- Electric Vehicle Substations
- Vegetated roofs as alternative open space



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Non-commercial Renewable Energy Facilities

Ground mounted – Height, setback, lot coverage?

Roof mounted – Height, integrated, accessory buildings, parking lots?



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GROUND MOUNTED SOLAR PANELS



ROOF MOUNTED SOLAR PANELS AND SHINGLES



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SOLAR PANELS ON ACCESSORY BUILDINGS

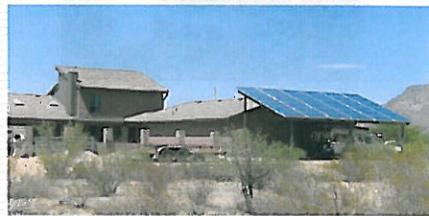
Solar panels on carports

Solar panels in parking lots

Solar panel on residential ramada



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BUILDING INTEGRATED PHOTO VOLTAIC



Long-term Sustainable Projects

- Mixed use and transit-oriented design guidelines
- Sustainability point system
- Green-incentive site plan



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