Tribal Solid Waste and Recycling Programs

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US EPA Region 9
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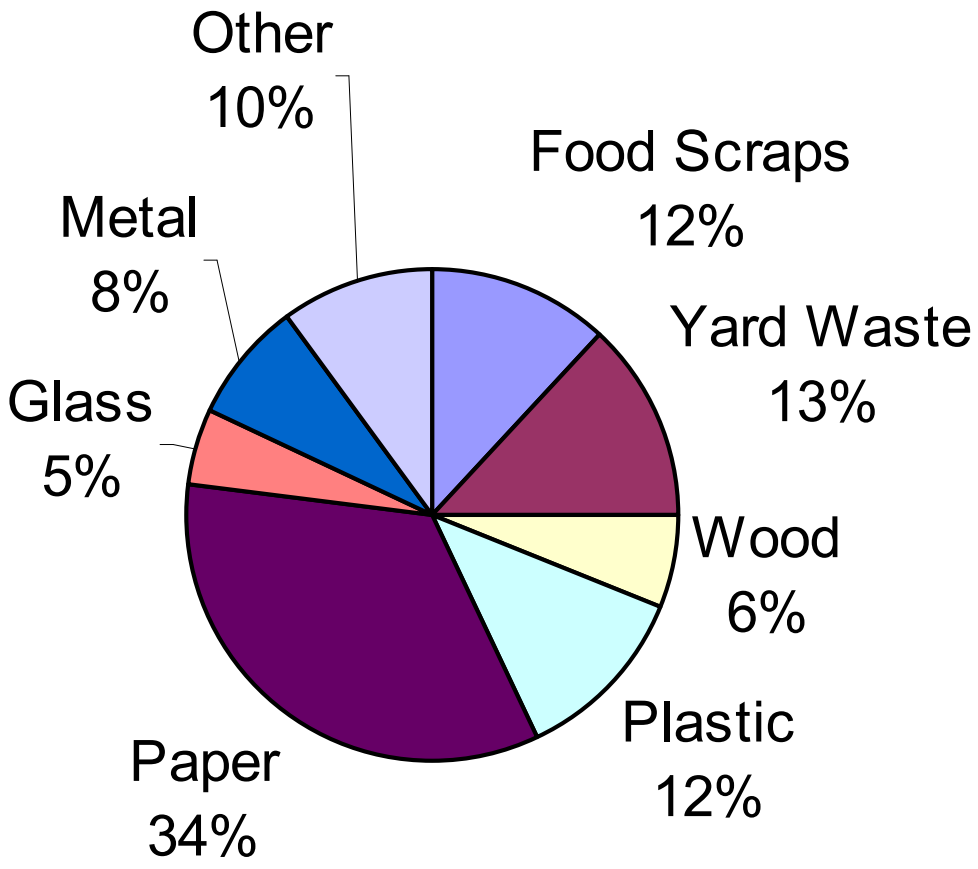
Why Recycle & Compost?

- HEALTH
  - Recycling Aluminum
    - 95% less air pollution
    - 97% less water pollution
    - One can = energy savings of half a can of gasoline
- JOBS
  - 1.1 million jobs in the United States
  - $236 + BILLION in annual revenues
- ENERGY CONSERVATION
  - Reduces greenhouse gas emissions
  - Landfills are the number one source of methane

What's Wasted?



Examine your waste stream

Components of a Successful Waste Management Program

1) - Tailored to your Community
2) - Innovative
3) - Enforceable
4) - Financially Sustainable
5) - Community Involvement

Component #1: Tailored to your Community

- Culturally appropriate and specific
- 1st step = Solid waste management plan
  - Identify wastes in your community
  - Identify how to manage them
  - Determine the needs

Component #1: Tailored to your Community

- Does your tribe have a solid waste management program and how does it address recycling?
- Where can the recycling go?
  - How far is it?
  - How is it transported?
  - How is it paid for?
  - How much does it cost?

What are the choices of recycling programs?

- Curbside Collection
  - Single stream
  - Sorted bins
  - Plastic bag based
- Community Drop offs
  - Transfer Stations
- Compost Collection

Component #2: Innovation

- Be creative!
- Think about what will get people:
  - ✓…involved!
  - ✓…excited!
  - ✓…a promoter of the program!

Component #2: Innovation

- Fort Independence Reservation, California
  - Raffle/prizes for participants in the recycling program
  - Green waste goes to the community garden
  - PSAs (radio and TV)

Recyclables Heading to Market

Mulch for community garden

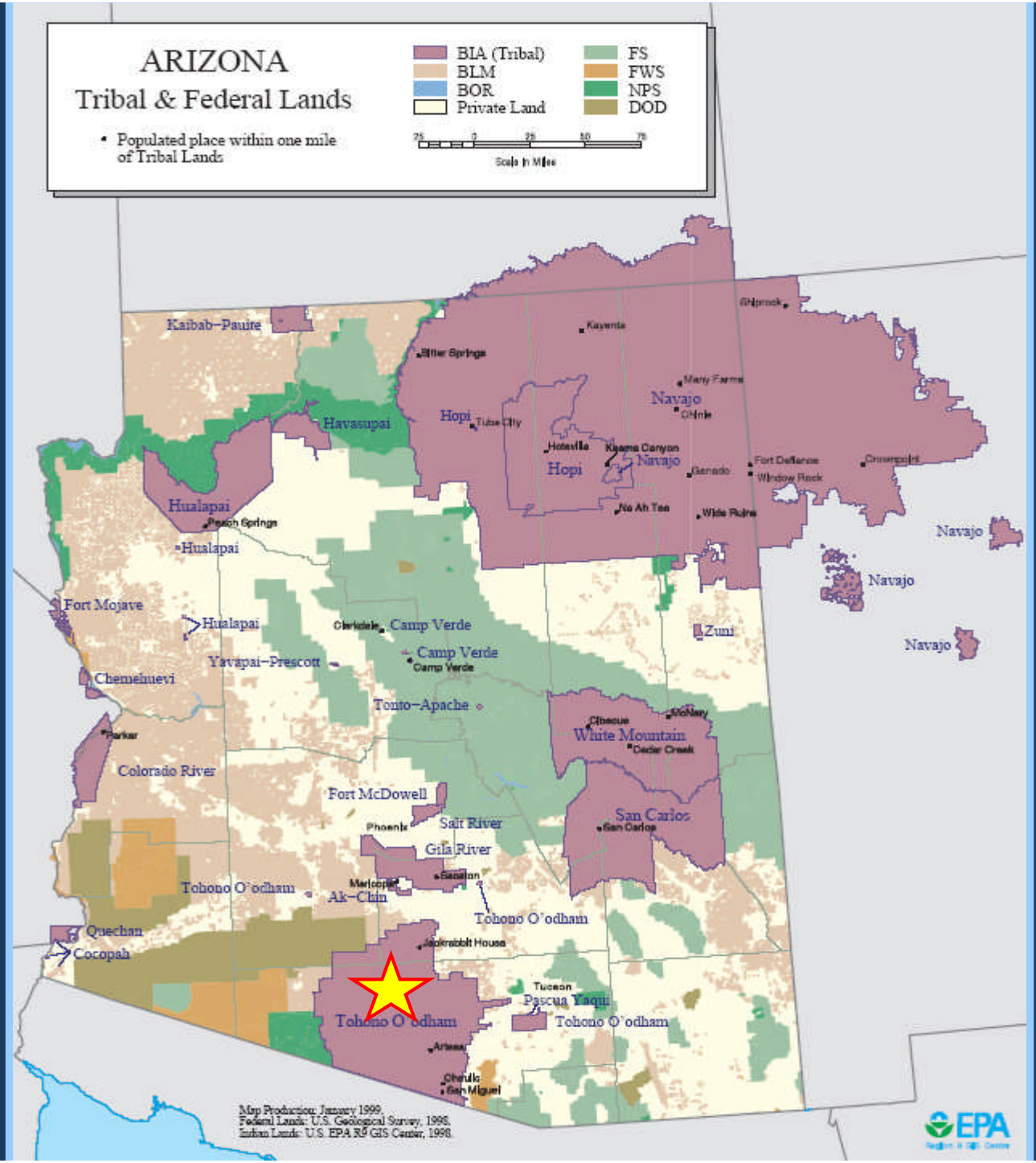
Peppers in the garden

Keys to Success

- Convenience
- Education
- Incentives
- Pay-as-you-throw
- Curbside collection
- Economically sound

Component #3: Enforceable

- Solid Waste codes/ ordinances
- Individuals identified to enforce
- Penalties – civil and criminal


ARIZONA
Tribal & Federal Lands
• Populated place within one mile of Tribal Lands
BIA (Tribal)
BLM
BOR
Private Land
FS
FWS
NPS
DOD
Scale in Miles
Kaibab-Paiute
Havasupai
Hualapai
Fort Mojave
Chemehuevi
Colorado River
Yavapai-Prescott
Camp Verde
Tonto-Apache
Fort McDowell
Salt River
Gila River
Ak-Chin
Tohono O'odham
Quechan
Cocopah
Hopi
Navajo
Zuni
White Mountain
San Carlos
Pascua Yaqui
Map Production: January 1999.
Federal Lands: U.S. Geological Survey, 1998.
Indian Lands: U.S. EPA R9 GIS Center, 1998.
EPA

Component #3: Enforceable

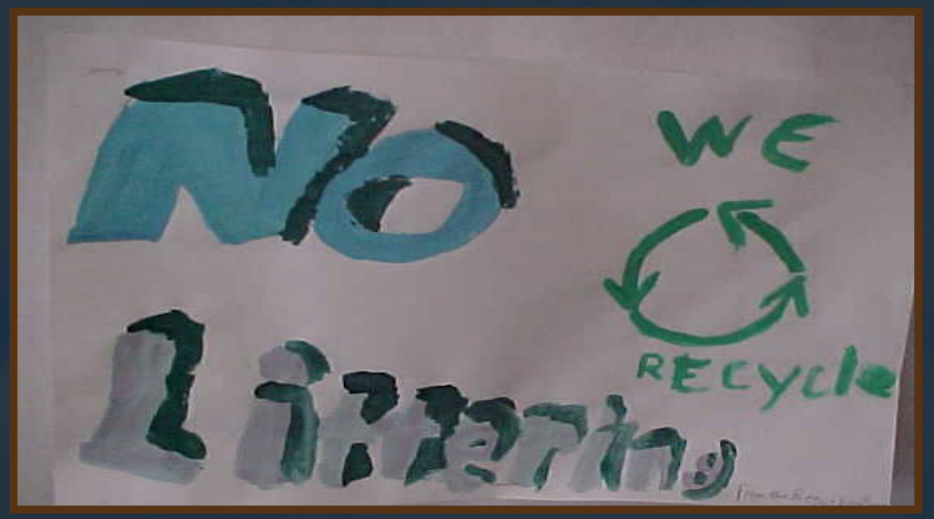
- The Tohono O'odham Nation
  - Solid waste code – used to inspect facilities
  - Created a Solid Waste Enforcement Office
  - Have credentialed inspectors
  - Partnerships with tribal law enforcement

Component #4: Financially Sustainable

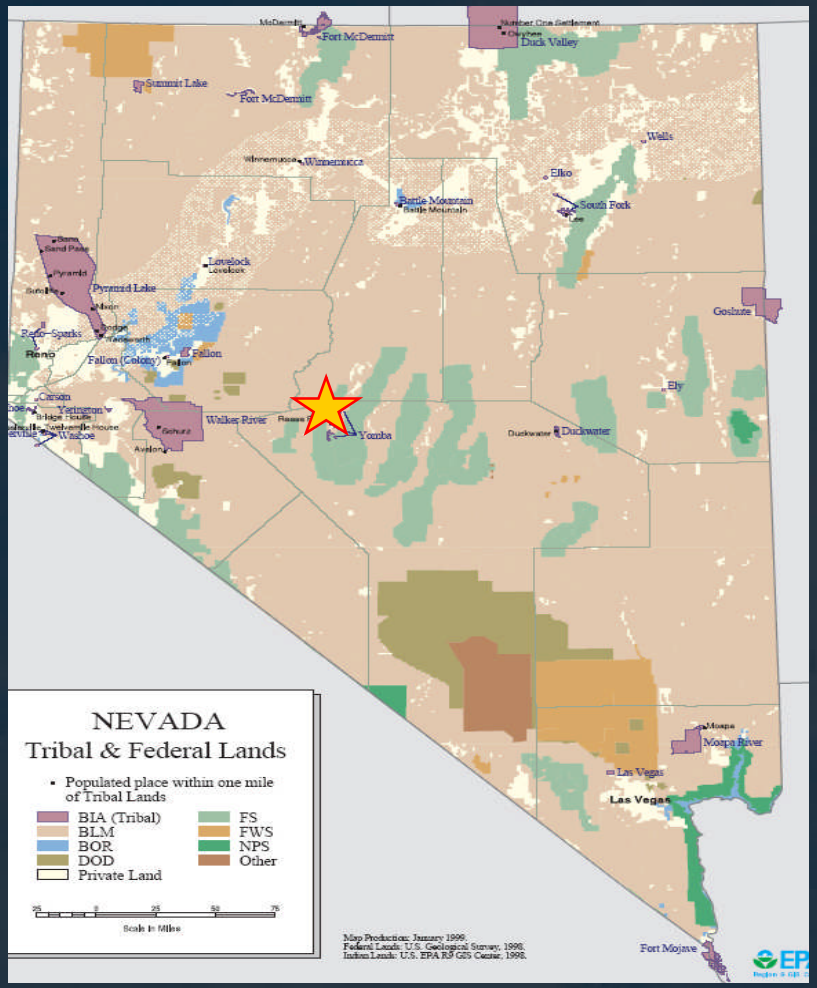
- **Start with a Business Plan** – look at all possibilities for funding:
  - ✓ User fees
  - ✓ Provide service to outside entities
  - ✓ Internal funds

Component #5: Community Involvement

- Community involvement = community support
  - Get kids involved
  - Community survey/ questionnaire
  - Community events
  - Council meetings



Component #5: Community Involvement



- Yomba Shoshone Tribe, Nevada
  - Community survey on waste management
  - School presentations/ activities
  - Booth at community festivals
  - Kids recycling group

Clear Signage is Important.

Recycling Collection

Paper, Bottles & Cans

紙張、櫥和罐

Papel, Botellas y Latas

Your BLUE cart is all you need to recycle.

El carrito AZUL es todo lo que necesita para reciclar.

只用藍色回收箱回收以上物件

Not accepted

- plastic bags, wrap or cups
- plastics other than bottles, tubs & lids
- styrofoam
- mirrors, window glass or light bulbs
- ceramic dishes or cups
- juice boxes and pouches

¡Ahora se aceptan también los ①, ④ & ⑤ tapaderas y cubetas de plástico!

①、④ & ⑤ 塑料盒和蓋

Questions?

Sunset Scavenger Company
415-330-1300
www.sunsetscavenger.com

Golden Gate Disposal & Recycling Company
415-626-4000
www.goldengatedisposal.com

Composting Collection

All Food

fruits, vegetables, meat, poultry, seafood, shellfish, bones, rice, beans, pasta, bread, cheese and eggshells.

全部食物

被食品弄髒的紙類

植物

Food-soiled Paper

Toda Comida

Plants

floral trimmings, tree trimmings, leaves, grass, brush, weeds.

Papel Manchado por Comida

cartón encerado, servilletas, platos y toallas de papel, filtros y posos de café, recipientes de cartón para leche, bolsas de té, cajas de madera, aserrín.

Plantas

recortes de flores y árboles, hojas, césped cortado, malezas, hierbas.

Printed on 30% post-consumer recycled paper

No!

plastic bags/wrap/straws
styrofoam
bottles and cans
aluminum foil
liquids
hazardous waste

不收！

¡No!

bolsas/envolturas/pajitas de plástico
espuma de poliestireno
botellas y latas
papel de aluminio
líquidos
desechos peligrosos

YOUR COLLECTION DAY IS:

你的收集日期定：

EL DÍA DE RECOLECCIÓN ES

Containers must be on the curb, at a loading dock or otherwise accessible on collection day.

Los recipientes deben colocarse en el bordillo o en una zona de carga o en un lugar accesible.

Questions?

626-4000

www.goldengatedisposal.com

Auto Cleanup Project as a Result of Community Outreach

Summary

- Address current solid waste management program
- Perform a waste characterization
- Research recycling and composting options
- Research transportation
- Implement your Project
- Identify your keys to success

Contact Information

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