

Recycling at the Postal Service



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TOPICS

USPS “Leaner, Greener, Faster, Smarter”

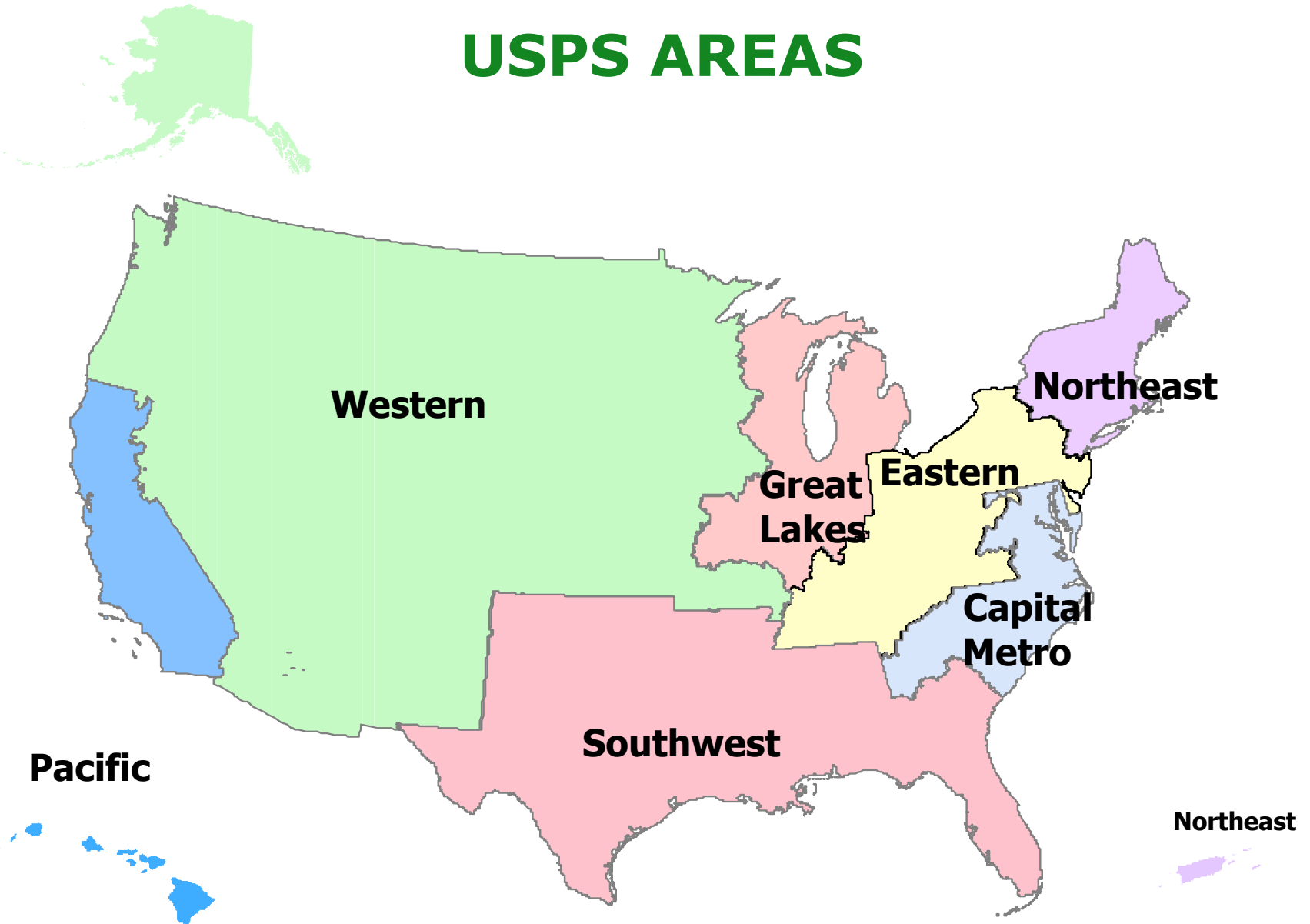
- USPS geography
- Recycling – the Arizona District
- Sustainability



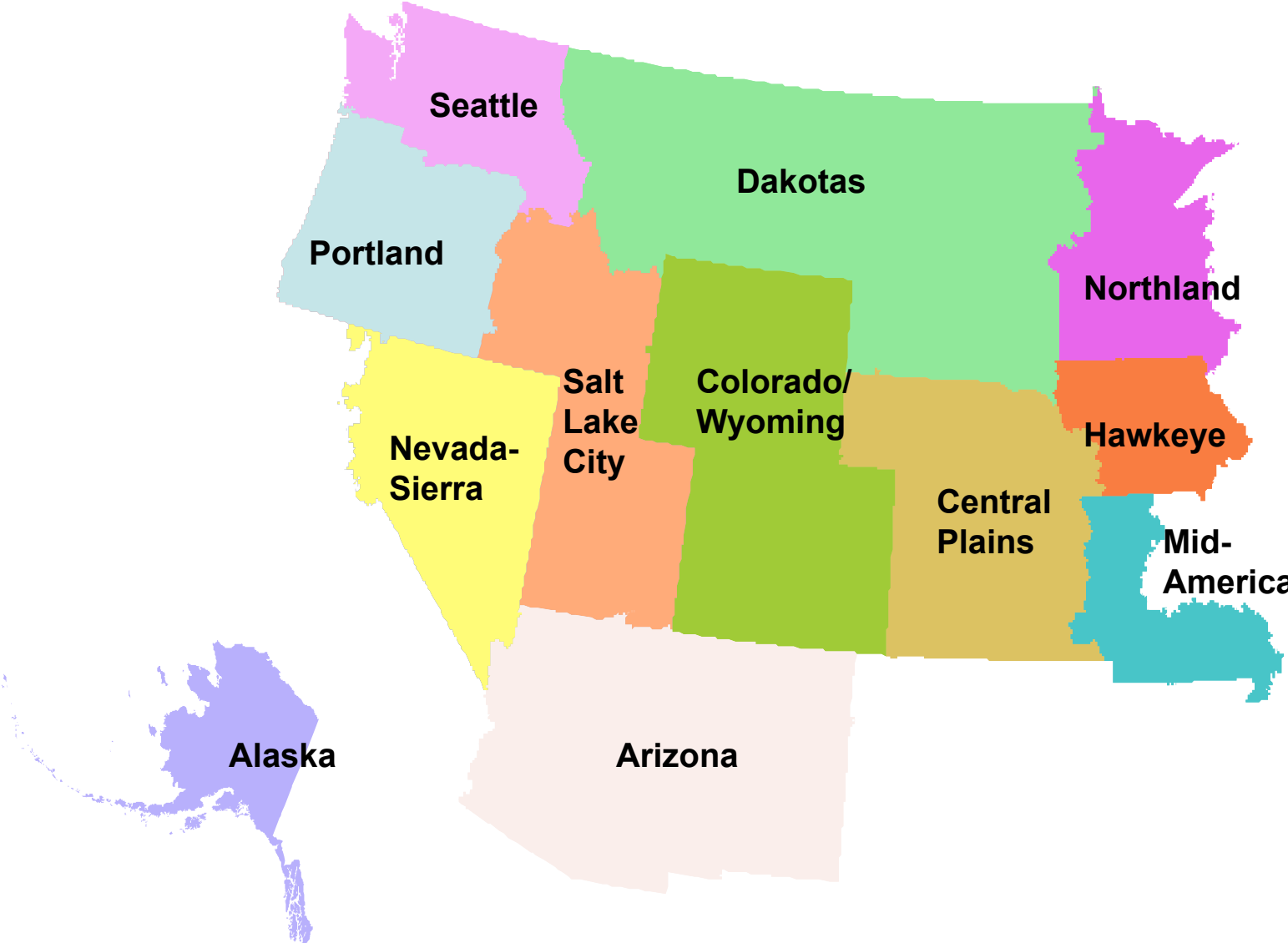
USPS Background

- 7 Areas
- 67 Districts
- Arizona District is located in the Western Area
- Western Area has 12 Districts – encompassing all or part of 18 states
- Western Area is geographically the largest Postal Area

USPS AREAS



WESTERN AREA



RECYCLING IN ARIZONA

- Started approximately 5 years ago
- Operate both “milk-run” and “back-hauling” program
- Two separate contracts for recycling/trash – Phoenix and Tucson metro areas
- Utilize local agreements for recycling of certain commodities



“MILK-RUNS”

Recycling company makes runs to the facilities to pick-up the container, empty it and then return container to the office

- Phoenix metro area – 53 facilities using a variety of containers: 20 CY OT, 30 CY CT and compactors
- Tucson metro area - 16 facilities using a variety of containers: use 3, 4, 6 CY FEL and compactors
- Operate on an “on-call” agreement in Phoenix

“BACK-HAUL”

Back-haul: using our existing transportation network to haul recyclables to a facility with a recycle container

- Relatively new concept for Arizona
- Implemented within the last year
- 60 facilities participating in “back-haul” throughout the state (Mesa, “863” and “853”)
- 16 Tucson facilities switched to “back-haul” within last 2 weeks
- 4 hub sites in Arizona
- Focus on mixed paper and OCC

ITEMS USPS RECYCLES



- Mixed paper
- Cardboard
- Plastic trays and tubs
- Wood
- Scrap metal
- Tires
- Oil
- Batteries
- Fluorescent lamps
- Electronics/computers



ARIZONA 2010 DATA

- Mixed Paper – 7,700 tons
- OCC – 322 tons
- Mixed Plastic – 82 tons
- Wood – 65 tons
- Ferrous metals – 165 tons
- Non-ferrous metals – 8 tons
- Tires – 105 tons
- Motor oil – 38 tons
- Batteries – 10 tons
- Light bulbs/fluorescents – 3 tons

NEW COMMODITIES

Recycling within the last few months

- Plastic shrink-wrap
- Plastic strapping

Looking for a way to recycle

- Rubber belts

Innovative ways to get more material out of the trash to save on costs and generate revenue

REVENUE

$$\text{RECYCLING REVENUE} + \text{DISPOSAL COST AVOIDANCE} = \text{NET COST BENEFIT}$$

- Arizona has led or been within top 3 Districts for 4 years
- Arizona is averaging approximately \$97,000 per month
- Suncoast (Florida), Houston and Arizona – just under \$1 million of recycling revenue in the first 4 months of FY2011

EPA WASTEWISE



WESTERN AREA

2009 – EPA Federal Partner of the Year

- \$44 million savings from waste prevention and recycling

2010 – EPA Federal Partner of the Year

- \$42.5 million savings from waste prevention & recycling
- 30,000 tons of material recycled and re-used 188 tons of electrical equipment

FROM THE POSTMASTER GENERAL



Patrick R. Donahoe

Promoting a Viable Postal Service through Sustainability Leadership

We have set a vision to *be a sustainability leader.*

Being a sustainability leader goes hand in hand with being leaner, smarter and faster.

“We need to continue to optimize our network, realign our workforce, reduce energy use and our physical footprint, and drive costs out of every aspect of the Postal Service.”

Leadership in sustainability requires support and involvement from all employees.

SUSTAINABILITY

Balancing people, planet, profit...

People

Safety & health
Diversity
Human rights
Transparency

Planet

Zero waste, releases, & spills
Clean air, water, land
Climate
Energy







Profit

Revenue growth
Cost control
Risk management
Governance



...to ensure a viable US Postal Service
that provides affordable, universal service
for current and future generations.

SUSTAINABILITY GOALS

Focus	Objective and Target	Baseline	FY 2010	Progress	Status
GREENER POST OFFICES & PLANTS					
Energy	Reduce total facility energy use by 30% by FY 2015 (Billion Btu)	33,720 FY2003	23,790	-29.4%	
Waste and Recycling	Reduce waste sent to landfill 50% by FY 2015 (short tons)	231,661 FY 2008	218,225	-5.8%	
Water	Reduce water use 10% by FY 2015 (million gallons)	5,479 FY 2007	4,883	-10.9%	
TRANSPORTATION FUEL					
Petroleum Fuels	Reduce Postal-vehicle petroleum fuel use by 20% by FY 2015 (million gasoline gallon equivalents - GGE)	140.67 FY 2005	146	3.5%	
Alternative Fuels	Increase Postal-vehicle alternative fuel use by 10% annually by FY 2015 (million GGE)	0.94 FY 2005	2	132.7%	
PRODUCT STEWARDSHIP					
USPS Purchasing	Reduce spending on consumables 30% by FY 2020 (\$ million)	\$508.4 FY 2008	\$341.5	-32.8%	



Achieving goal



On-target



Off-target



SUSTAINABILITY

“PUTTING OUR STAMP ON A GREENER TOMORROW”®

Since 1993, the Postal Service has strived to be a leader in environmental aspects of the following topics

- Facilities
- Vehicles
- Packaging
- Greenhouse Gas Emissions



FACILITIES

Green-friendly features we use in our facilities:

- Recycled fiberglass insulation
- Natural lighting
- Thermal window frames
- Solar electric systems
- Solar thermal systems
- Water tanks to harvest rainwater for reuse
- Green roofs

Other ways: high-efficiency lighting and HVAC, recycled building materials, water saving fixtures, low volatile organic compound (VOC) materials, automated control systems and native plants.

MORGAN P&DC

Green-roof in New York

- 109,000 ft² or 2.5 acres
- 59% of plants and vegetation are native
- Saved \$30,000 in energy, plus other combined energy initiatives have resulted in \$1,000,000 savings
- Largest green roof in New York and country
- Reduces storm water run-off by 75% during the summer 40% in the winter
- Roof will last 50 years, twice as long as the roof it replaced
- Provides oasis environment for employees



MORGAN P&DC GREEN ROOF



LEED FACILITIES

LEED certification is a nationally accepted rating system that measures the environmental attributes and sustainable features of buildings.



- Denver Mile-High Station Post Office - LEED
- Southampton (NY) Post Office - LEED
- Greenville (SC) P&DC expansion – LEED Gold
- Troy (MI) Royal Oak P&DC – LEED
- Eagan (MN) Mail Processing Facility expansion – LEED Silver

VEHICLES

DID YOU KNOW?

The Postal Service has the largest civilian alternative fuel capable vehicle fleet in the nation.

Types of vehicles we use:

- Electric – test first one in 1899
- Fuel cell
- Alternative fuels: including ethanol, propane & bio-diesel



ELECTRIC VEHICLE

T-3 Electric vehicle is being tested in Arizona, California and Florida.

Features include:

- 40 mile range
- Maximum speed of 12 mph
- Load capacity of 450 pounds
- 2 rechargeable power modules
- ZERO gas emissions
- Costs \$0.04 per mile to operate



ALTERNATE MODES OF TRANSPORTATION

Mail is delivered in the most energy-efficient way possible:

- Mules in the Grand Canyon
- Bicycles in Florida, Arizona & California
- A third of deliveries utilize our “Fleet of feet” (9,000 walking routes and 80,000 “park and loop” routes where carriers deliver mail on foot after driving to neighborhood)



PACKAGING

USPS is 1st shipping company to achieve “Cradle-to-Cradle”^{CM} certification for our packaging

- “big picture” certification
- starts at design stage
- considers energy and water use through manufacturing process
- end result = safely recycled product, safe for human health and the environment



STAMPS

- Use water-based inks
- Adhesives are biodegradable
- Adhesives is benign to the recycling process, so they can go right in the recycling bin
- 27 billion stamps and stamped products gained Cradle-to-Cradle certification



GREENHOUSE GAS

USPS is the 1st Federal agency to publicly report its third-party verified GHG emissions via the Climate Registry



- GOAL = reduce GHG emission by 20% by 2020
- Reported for 3 years (2007, 2008 & 2009)
- 5.3 million tons of GHG, only one-20th of 1 percent of the total GHG emissions in the U.S.

SAVE THE TRIP CALCULATOR

UNITED STATES POSTAL SERVICE. HOME | HELP | SIGN IN

Find a ZIP Code Calculate Postage Print a Shipping Label Schedule a Pickup Locate a Post Office Track & Confirm

BUSINESS >> HOUSEHOLD >> BUY STAMPS & SHOP >> ALL PRODUCTS & SERVICES >> ABOUT USPS & NEWS >>

ECO-FRIENDLY PRODUCTS & SERVICES GREENING YOUR MAIL RECYCLE INNOVATION DIRECT AND GREEN

make the change. use us online.
use USPS.com and save energy... and money, too.
estimate your savings now.

Not sure? Click here

greener choices with the U.S. Postal Service®

results
If you used USPS.com and skipped trips to the Post Office™ you would save time and over a year an estimated:

calculate now

0.0 POUNDS OF CO₂
0.00 GALLONS OF GASOLINE
\$ 0.00 IN FUEL COSTS

This small step alone would lower your average carbon footprint as a driver by:

0.0% **IT ALL ADDS UP!**

How'd we figure this out? >

our environmental efforts...
Our mission is to deliver now — and for future generations. With every step we take, we are committed to leaving a "green" footprint across the American landscape. The Postal Service has a long history of environmental stewardship. We are pioneers in using alternative fuel-capable vehicles. We support recycling programs and we offer eco-friendly products and services. We're working with customers to reduce mail that's undeliverable, and we're working with other delivery companies to move mail and packages on shared transportation, saving on energy costs and consumption.

take the 2008 Earth Day challenge.
Find out your Earth Impact!
[learn more >](#)

http://about.usps.com/what-we-are-doing/green/calculator_pop.html

ENVIRONMENTAL AWARDS

Postal Service is recognized as an environmental innovator and leader

- 75 major environmental awards, including:
- 40 Green Gov Presidential Awards (formerly Closing the Circle awards) for environmental stewardship
- 10 WasteWise Partner of the Year



DELIVERING A GREENER FUTURE



<http://about.usps.com/what-we-are-doing/green/welcome.htm>

According to the U.S. Environmental Protection Agency, the nation's environmental authority, advertising mail represents **less than 2.4 %** of the nearly 254 million tons of municipal solid waste created annually and nearly 40% of advertising mail is recycled.

