

Water



*Infrastructure, Supply & Planning Study*  
A City of Tucson and Pima County Cooperative Project

# **Effluent, Water Rights and Biosolids Resources**

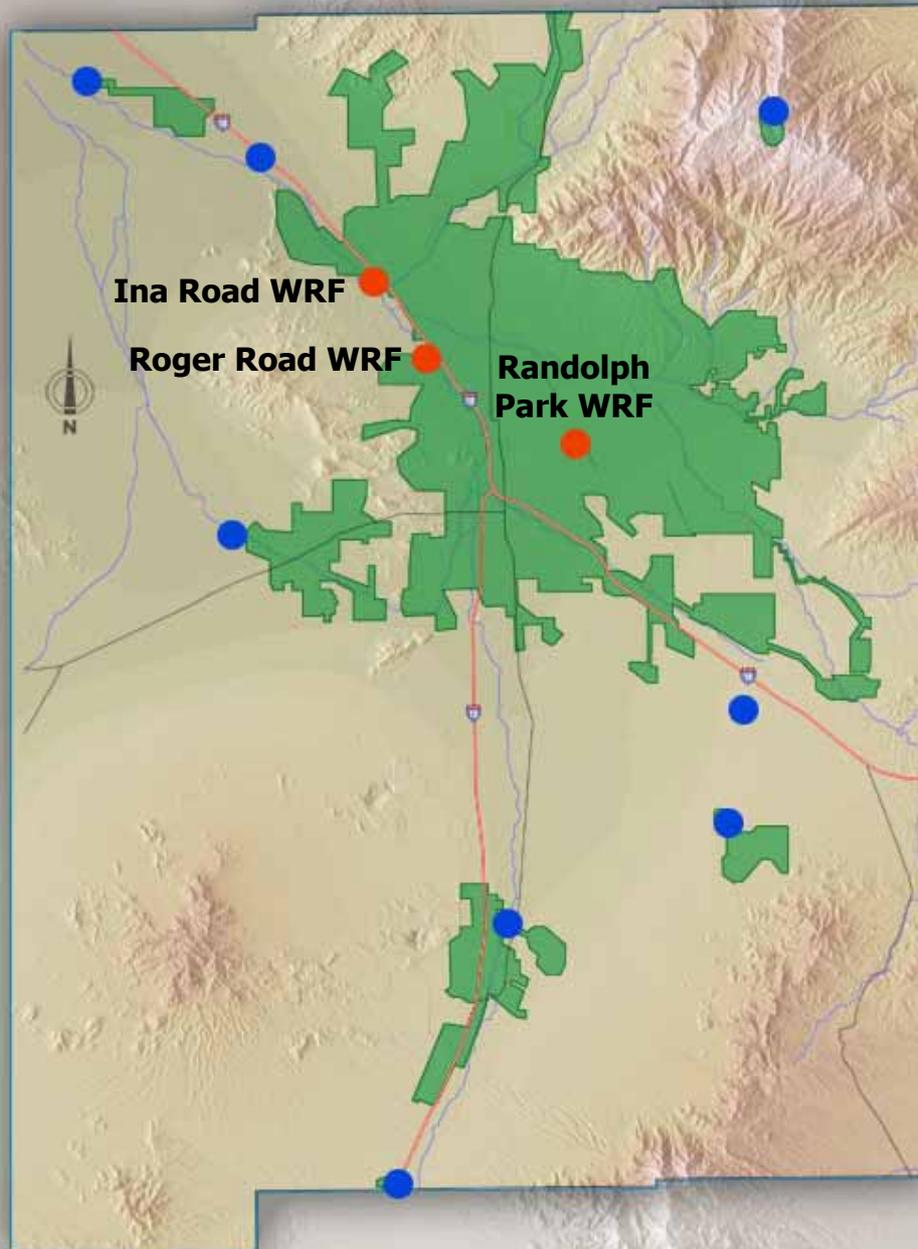
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 **PCRWRD  
Regional  
Sewer Service  
Area**

 **Metropolitan  
Wastewater  
Reclamation  
Facilities (3)**

 **Sub-Regional  
Wastewater  
Reclamation  
Facilities (8)**



# What is an Acre Foot?

An acre-foot is used to measure large-scale water resources such as reservoirs, effluent discharge volume, and river flows

One acre-foot = an acre of land to a depth of one foot  
= 325,851 gallons  
= 43,560 cubic feet

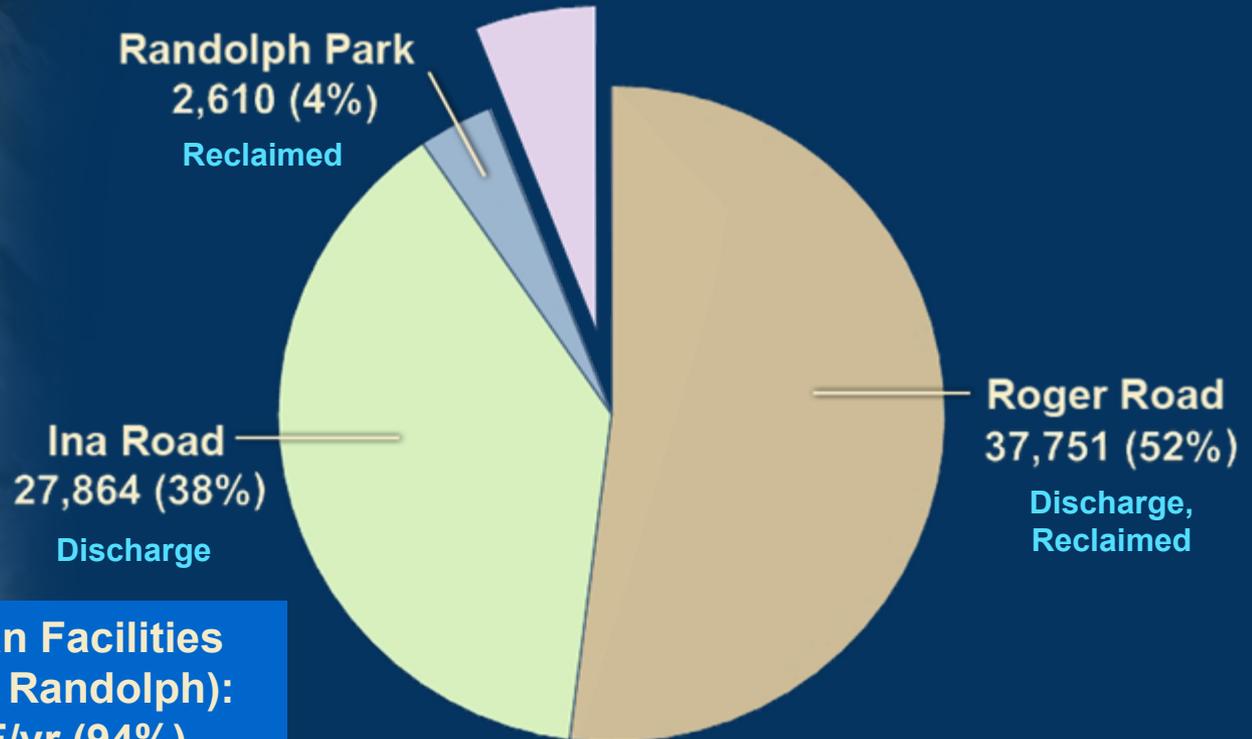


An acre is about  $\frac{3}{4}$  the size of a full football field

# PCRWRD Effluent Generation and Use

Total: 72,572 acre feet/year

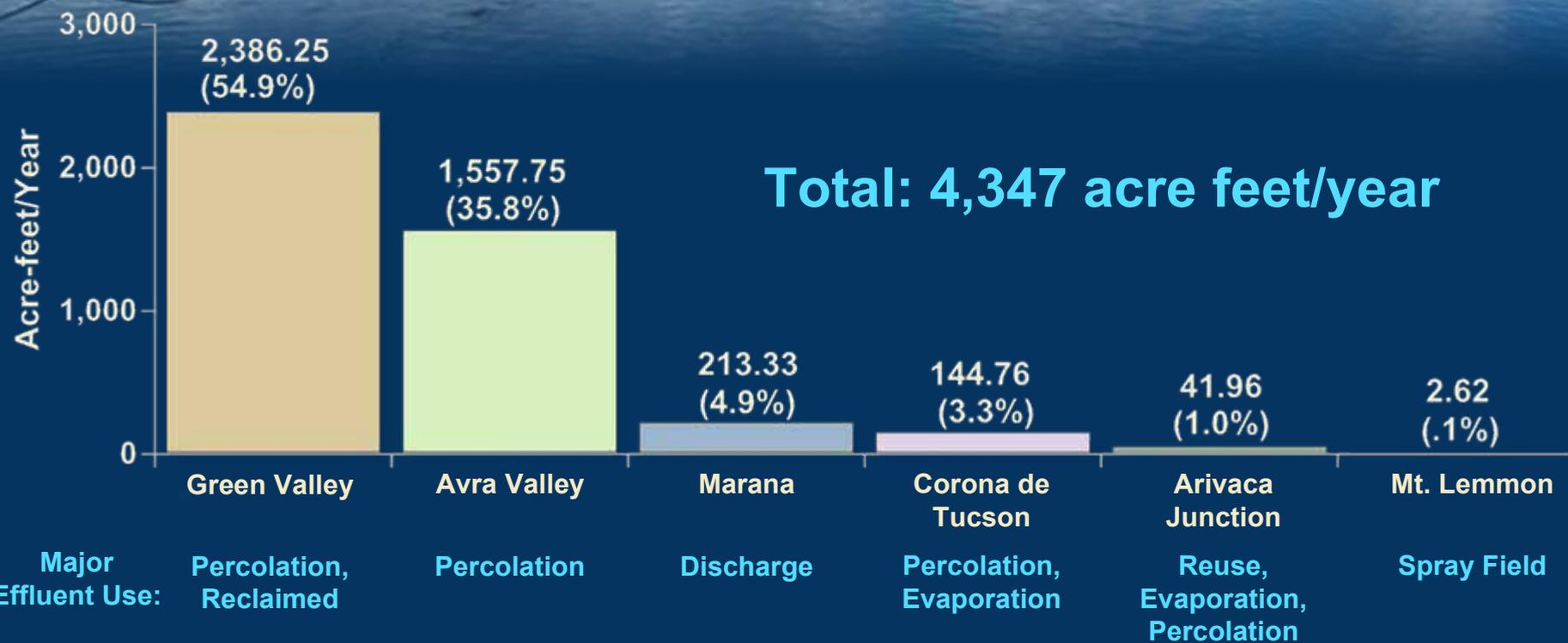
Sub-Regional Facilities:  
4,347 AF/yr (6%)



Metropolitan Facilities  
(Ina, Roger, Randolph):  
68,225 AF/yr (94%)

(Does not include effluent used on-site for treatment processes and irrigation)

# PCRWRD Effluent Generation and Use – Sub-Regional Facilities



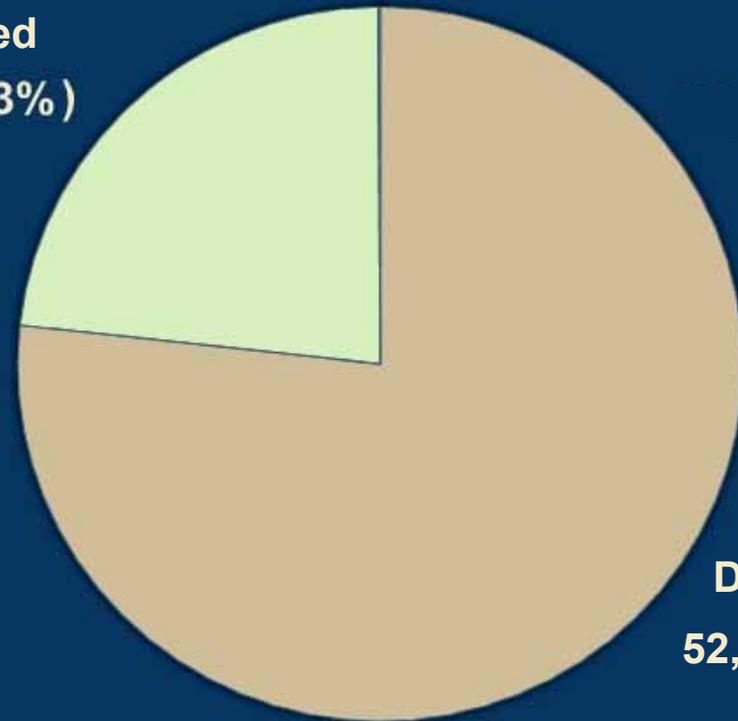
(Data does not include effluent used on-site for treatment processes, does include plant irrigation)

# Metropolitan Effluent – Reclaimed and Discharge



**Total: 68,225 acre feet/year**

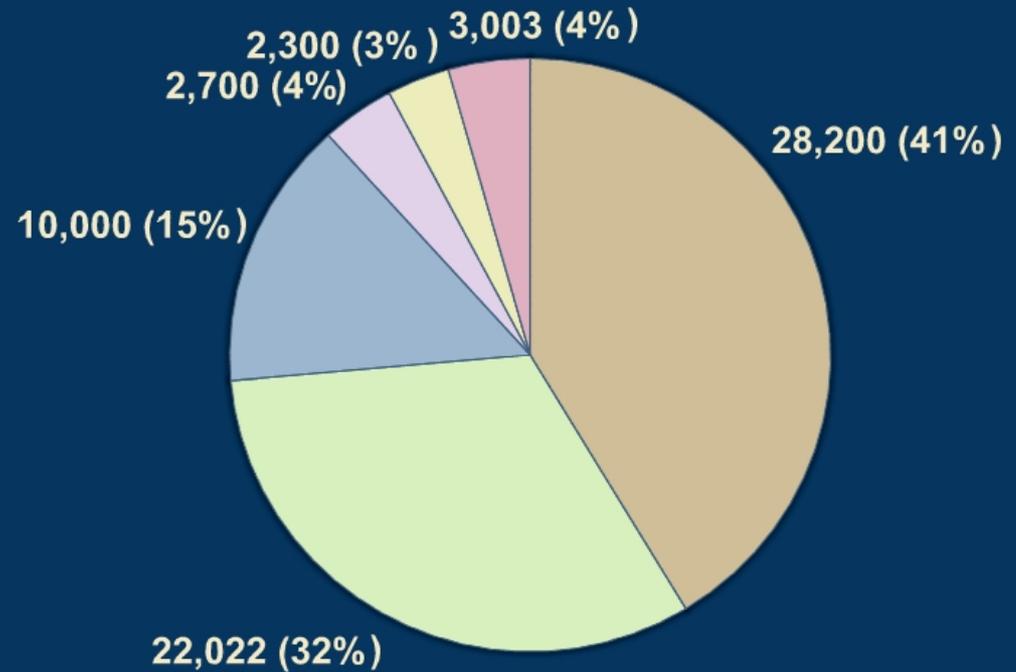
**Reclaimed  
15,805 (23%)**



**Discharge  
52,420 (77%)**

# Metropolitan Effluent Allocation

Total: 68,225 acre feet/year

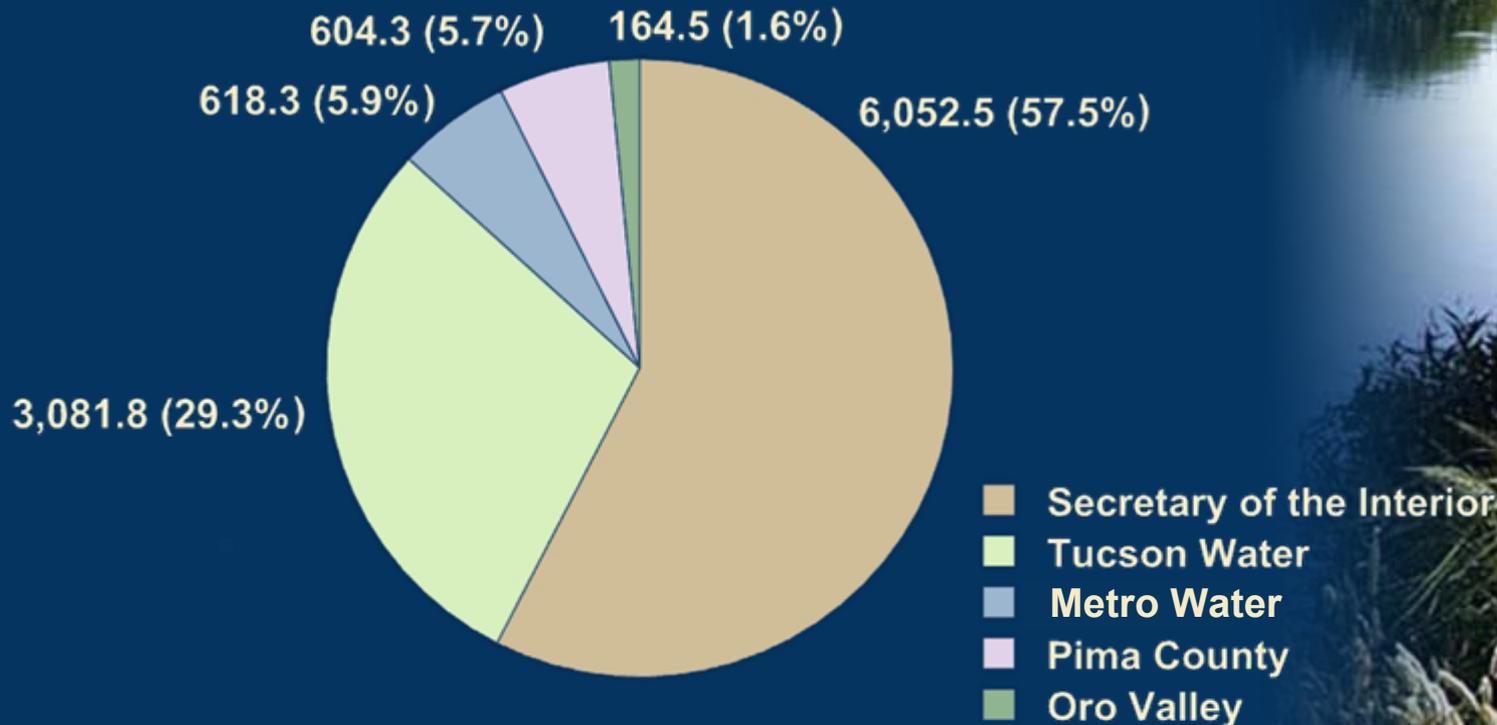


- SAWRSA
- Tucson Water
- Conservation Effluent Pool
- Metro Water
- Oro Valley
- Pima County

# Effluent Recharge Credits

## Lower Santa Cruz River Managed Recharge Project (LSCMRP)

Total: Credits of 10,521.4 acre-feet (2007)

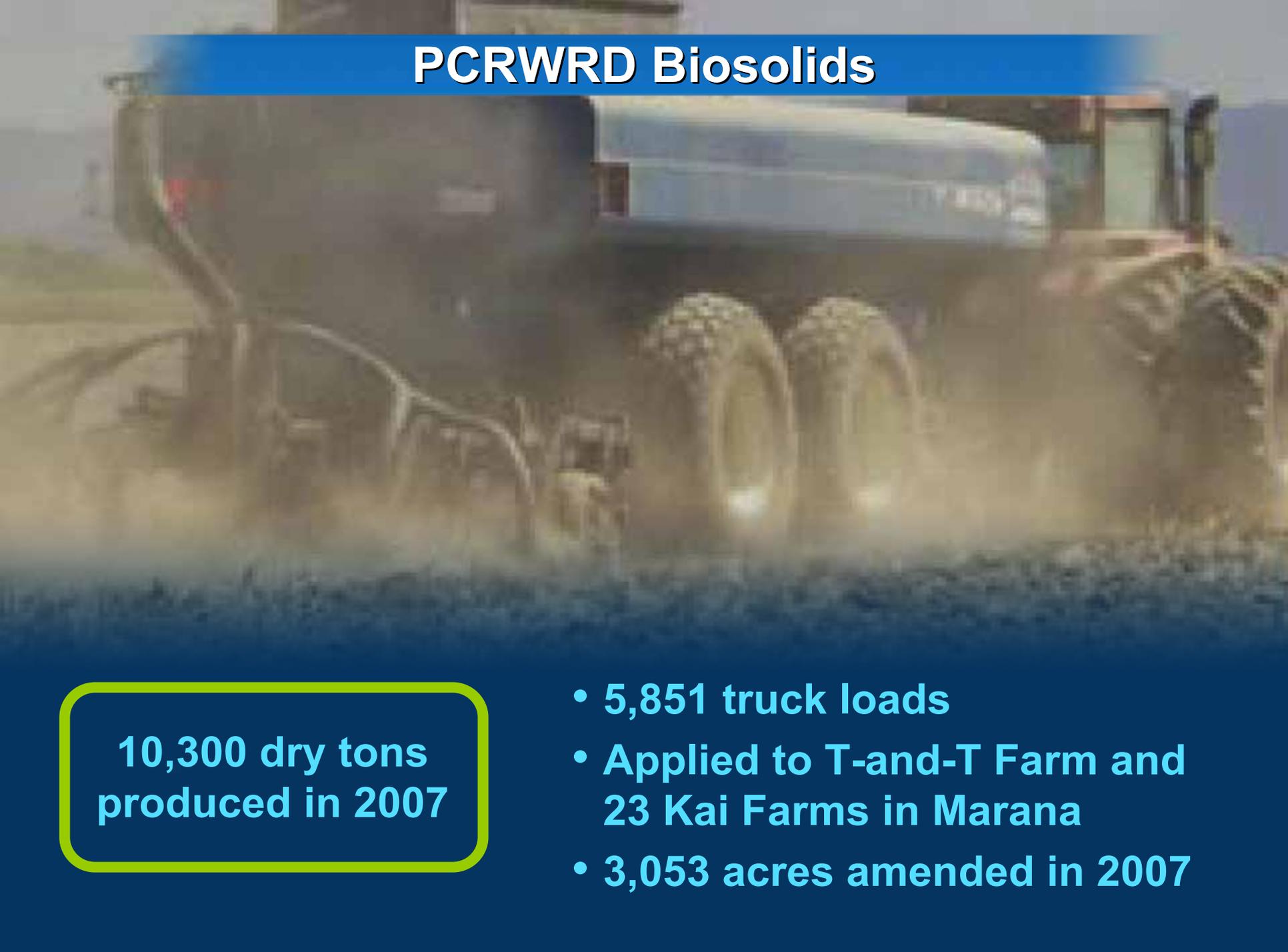


# County Water Rights

Type	# Rights	Acre-feet in 2006
Surface Water	45	59,764
Type 1 Non-Irrigation	12	2,493
Type 2 Non-Irrigation	18	986

Primary uses are environmental and ranching

# PCRWRD Biosolids

A large blue tractor is shown from a low angle, pulling a trailer through a field. The tractor is moving from left to right, and a large cloud of dust or dirt is being kicked up behind it, partially obscuring the tractor's rear. The background shows a clear sky and some distant trees or structures.

**10,300 dry tons  
produced in 2007**

- **5,851 truck loads**
- **Applied to T-and-T Farm and 23 Kai Farms in Marana**
- **3,053 acres amended in 2007**