

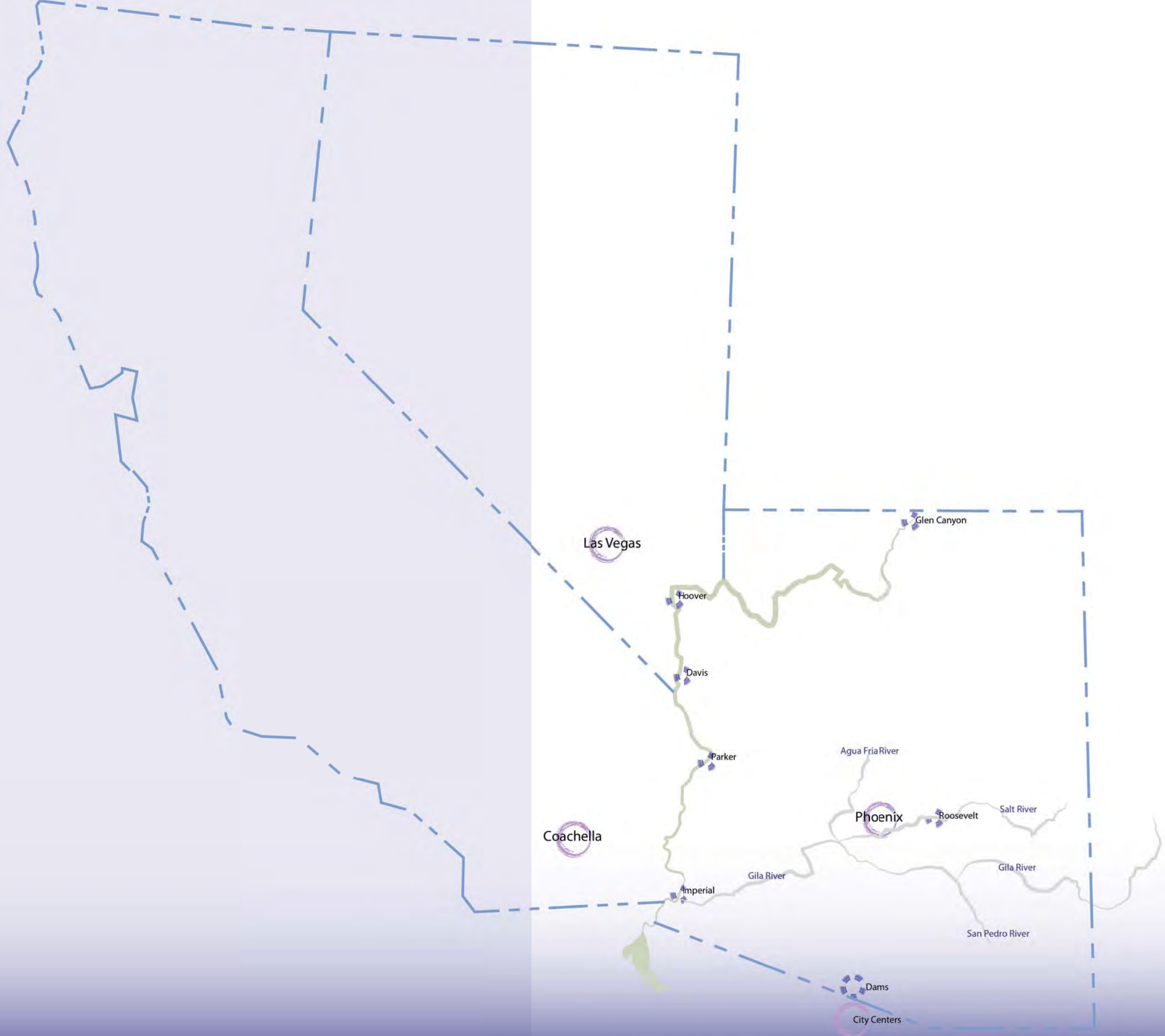
# COLORADO RIVER

## REHABILITATING 90 YEARS OF DYSFUNCTION

Viviana Rodriguez

LA 602 - Hall

Winter 2012



**CONTENT**  
**GOAL/OBJECTIVES**  
**EXISTING CONDITIONS**  
**PROPOSED SOLUTIONS**

**GOAL**  
**RETURN 1% (75,000 AF) OF FLOWS TO**  
**RIVER AND RIVER DELTA**



**AGRICULTURAL OBJECTIVES**  
**ENFORCE WATER TREATMENT & REUSE**  
**REINSTITUTE 160 ACRE LIMIT FOR SUBSIDIES**  
**ACTUAL PRICE WATER FEES (\$20 VS. \$97)**

**URBAN USE OBJECTIVES**  
**LOW IMPACT DEVELOPMENT**  
**LAWN REMOVAL SUBSIDY**  
**GRAY WATER SYSTEMS**  
**WATER HEATER AT SOURCES**

**LOWER BASIN OBJECTIVES**  
**RESTORE WATERSHED INFILTRATION**  
**FOUR YEAR FLOOD PULSES**

# GOAL RETURN 1% (75,000 AF) OF FLOWS TO RIVER AND RIVER DELTA



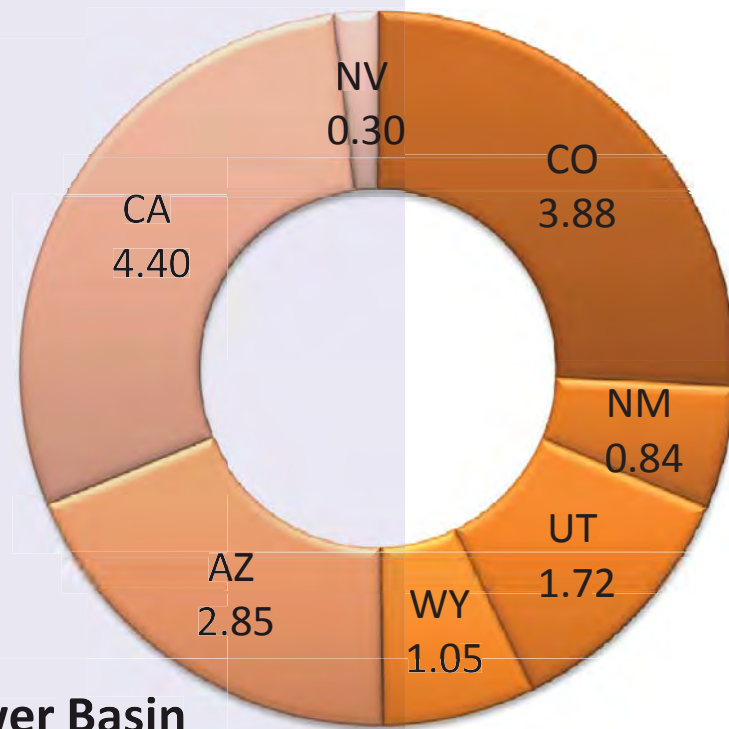
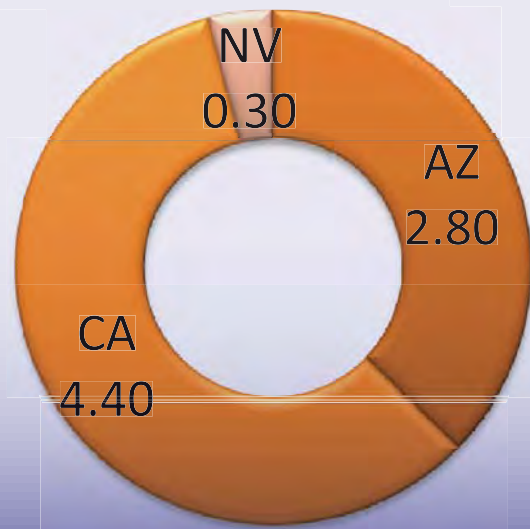
TOTAL ALLOCATION  
FLOW FORECASTING  
DISTRIBUTION

## Total Colorado River Allocations (in million acre feet)

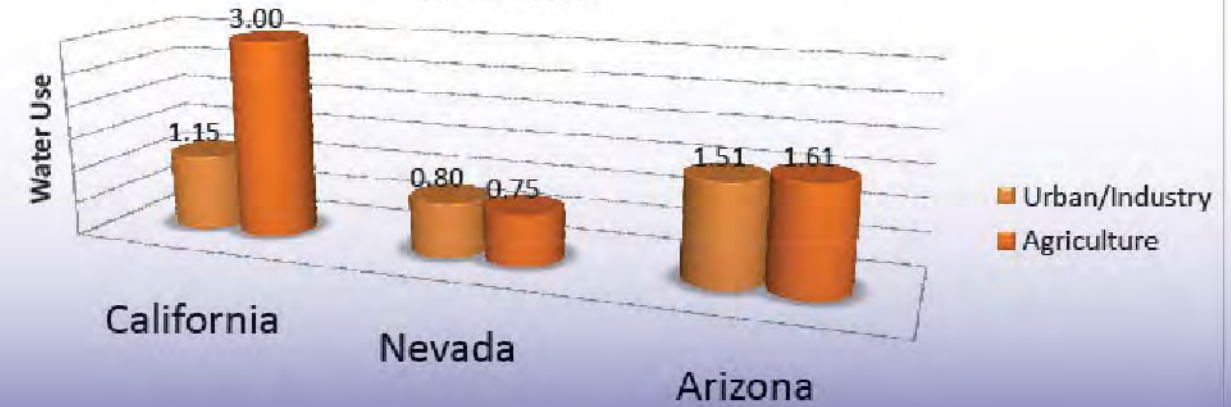
### Upper Basin



### Lower Basin

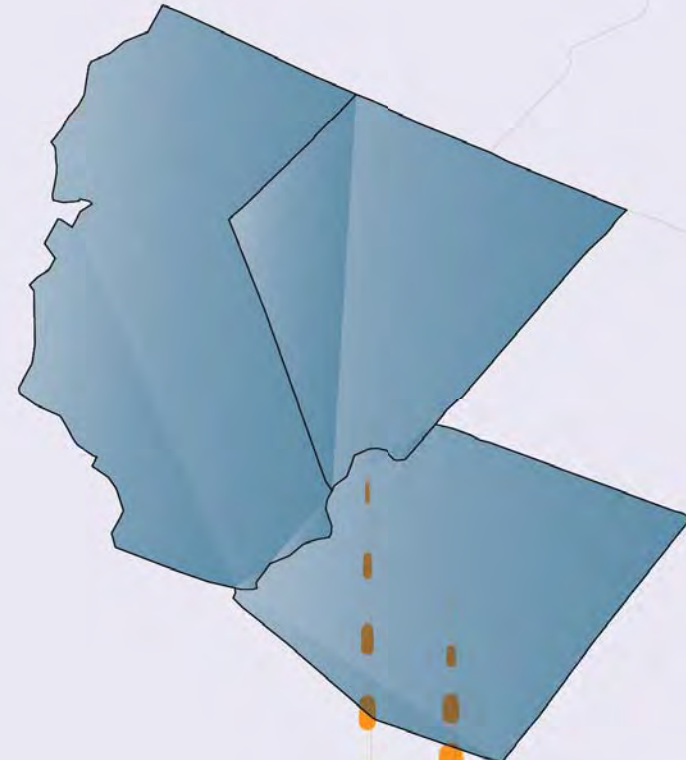



### Colorado River Water Use in California, Arizona, Nevada (Million Acre Feet)




# EXISTING CONDITIONS

## NATIONAL/INTERNATIONAL WATER RATES



  
\$34.29  
Phoenix

  
\$32.94  
Las Vegas



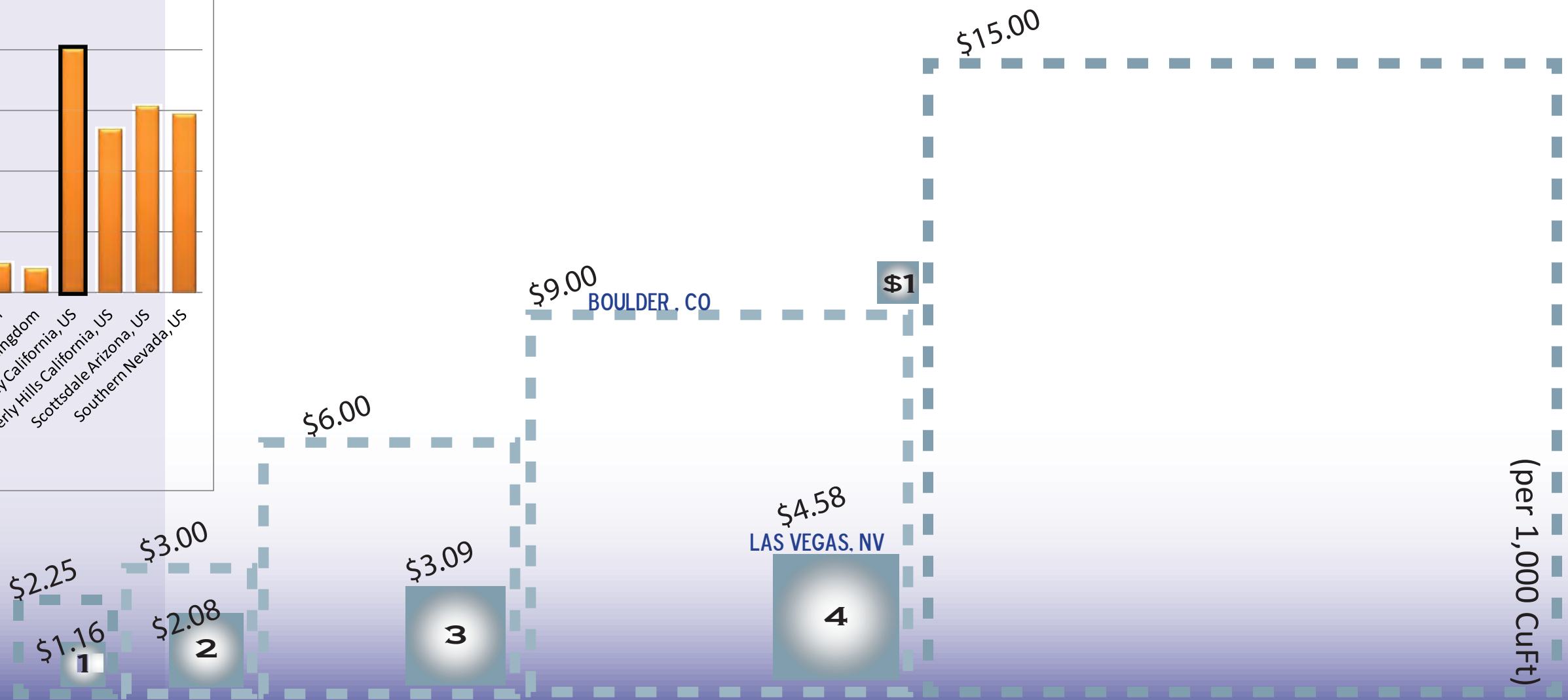
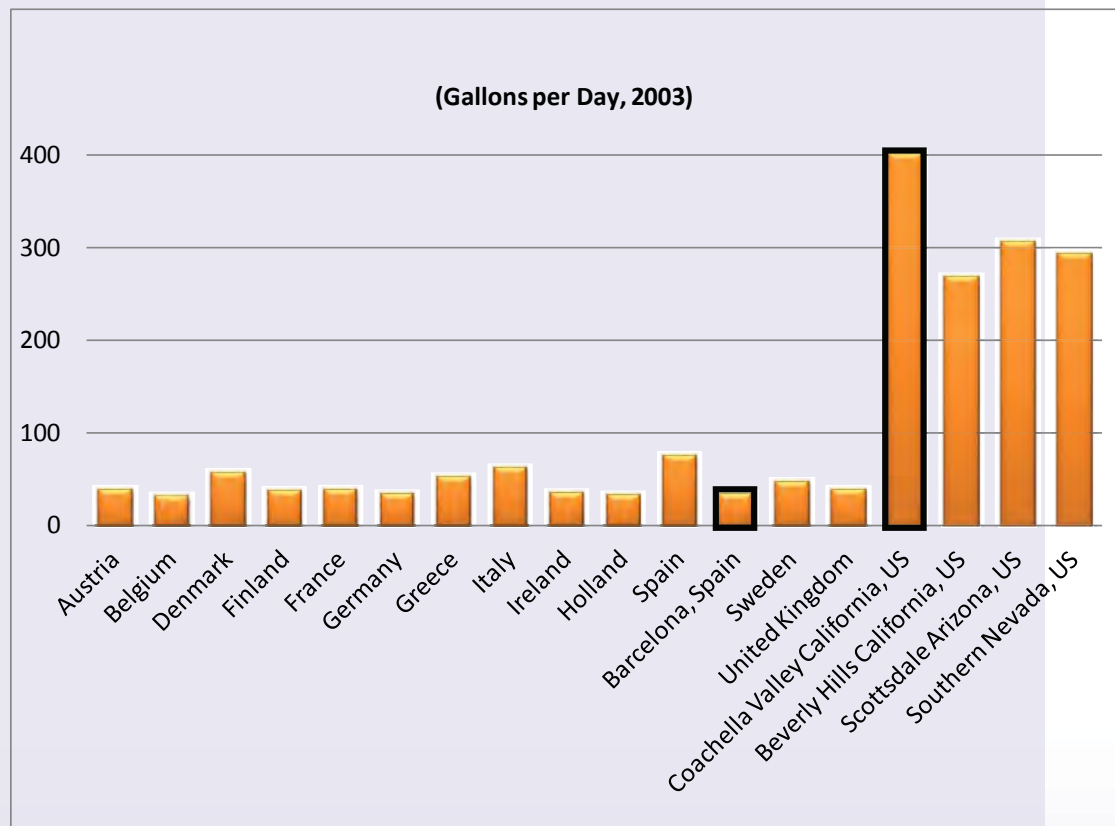
  
\$49.03  
Philadelphia

  
\$65.47  
Boston

  
Monthly Water Bill  
Family of 4  
Using 100 g/day

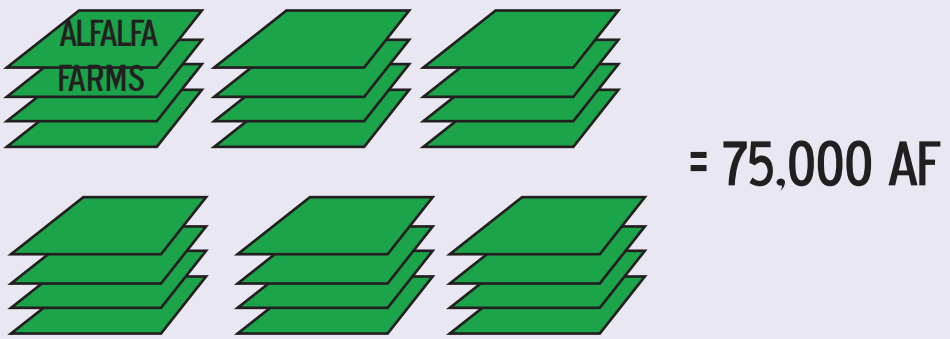
# EXISTING CONDITIONS

## NATIONAL/INTERNATIONAL WATER RATES

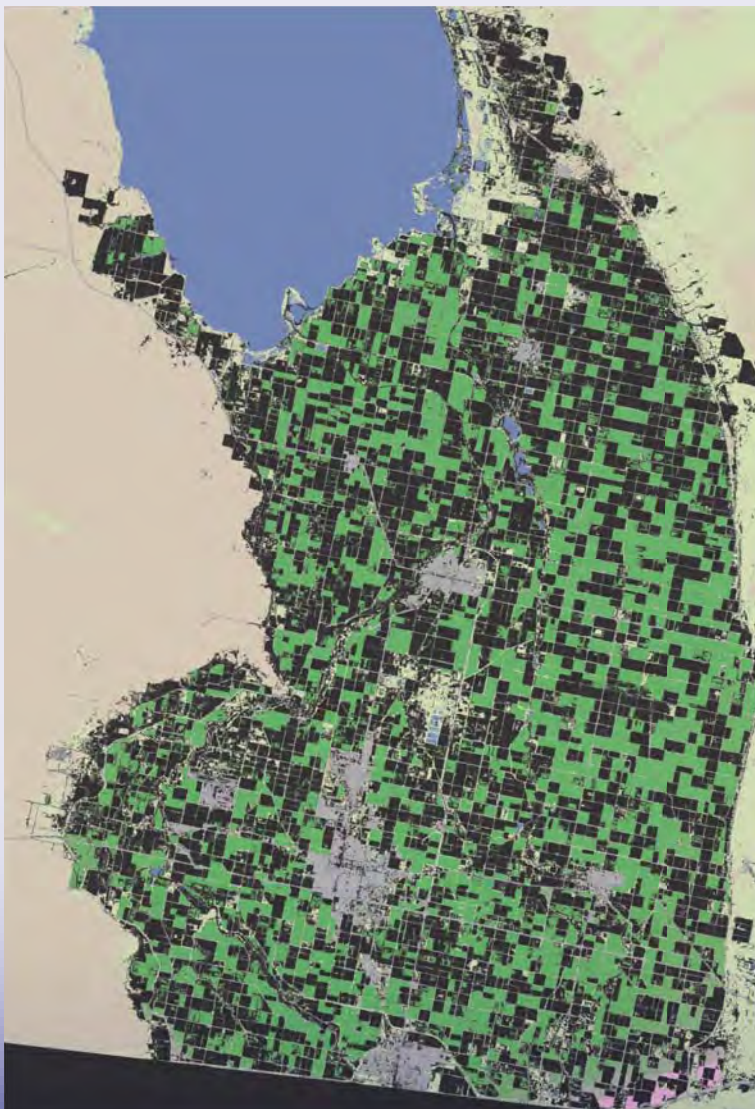


**SUBSIDY - \$217/ACRE/YEAR**  
**REVENUE - \$290/ACRE/YEAR**

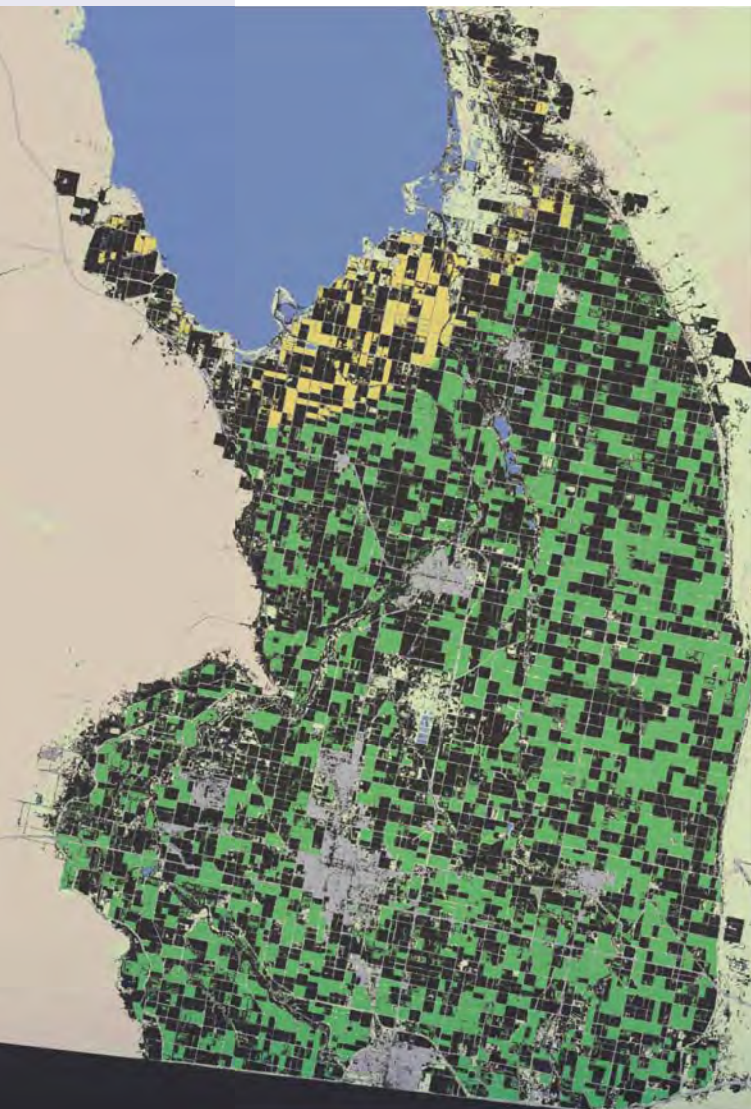
**70% OF PROFITS ARE FROM TAXPAYER SUBSIDIES**  
**NOT CROP PRODUCTION**



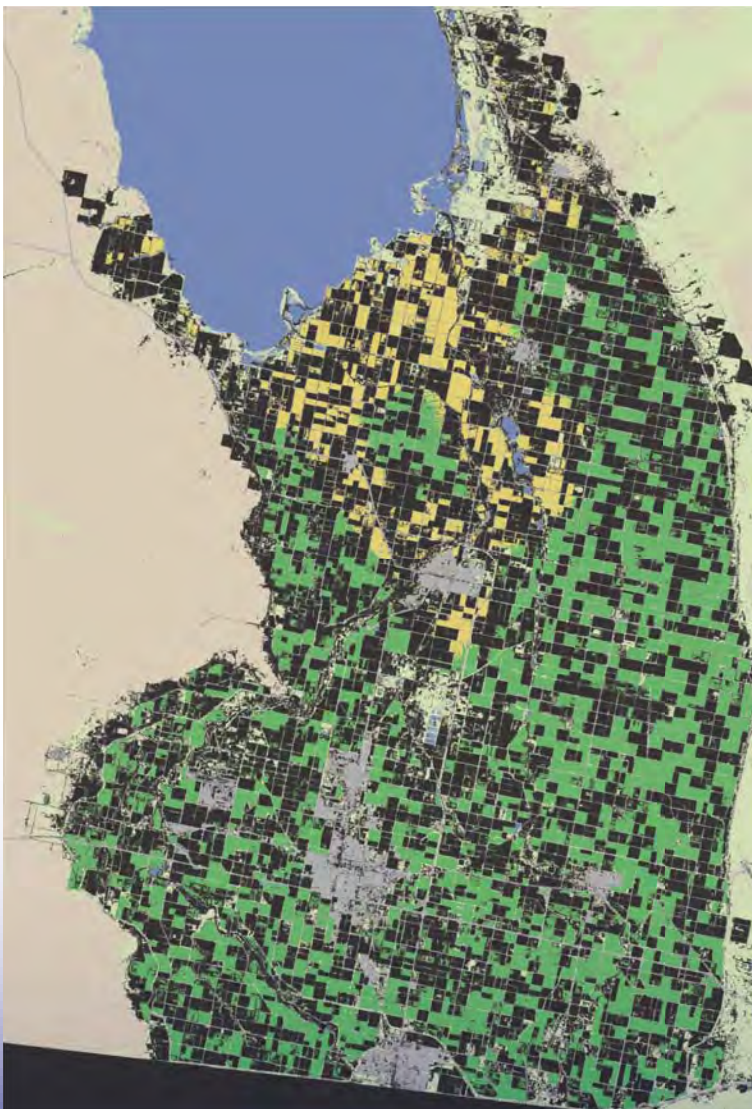
YEAR 1



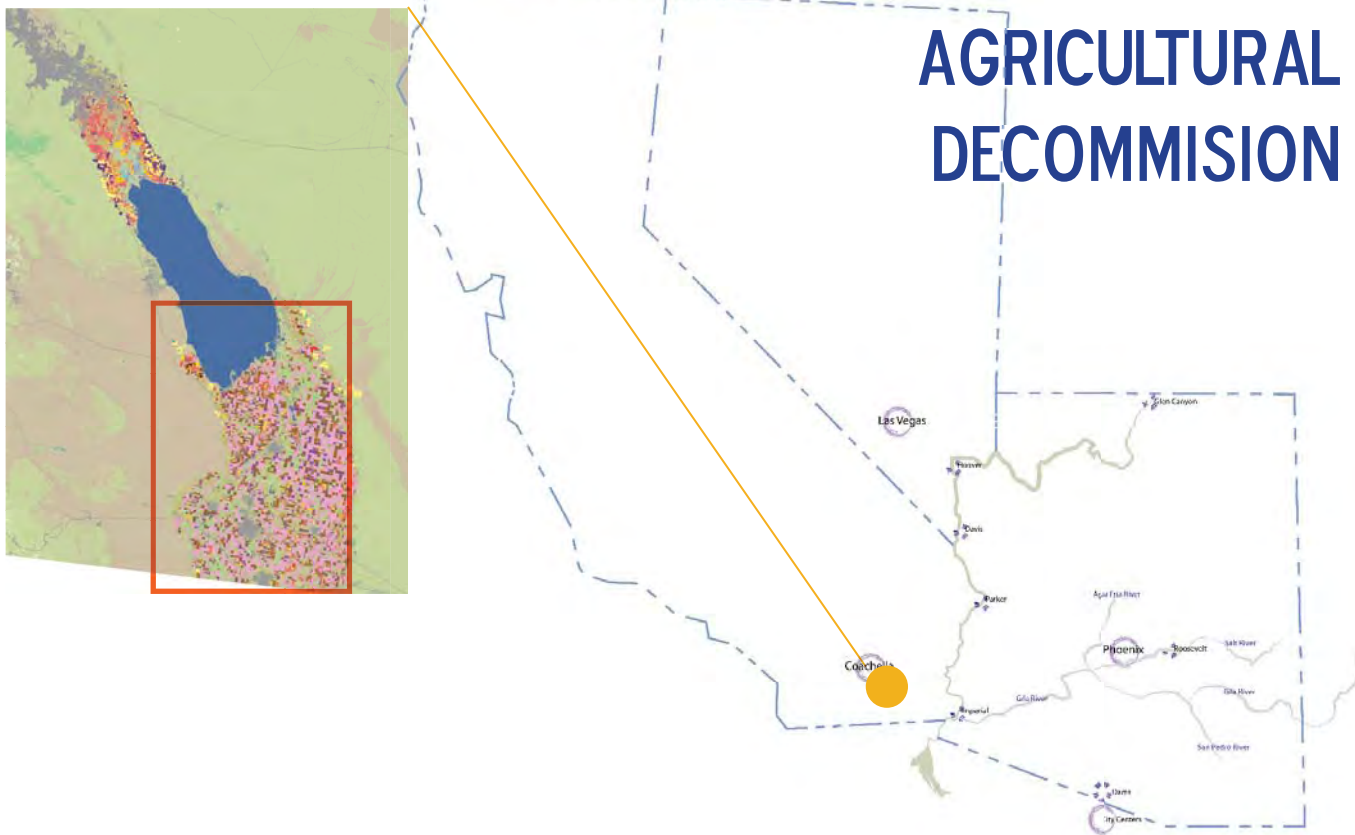
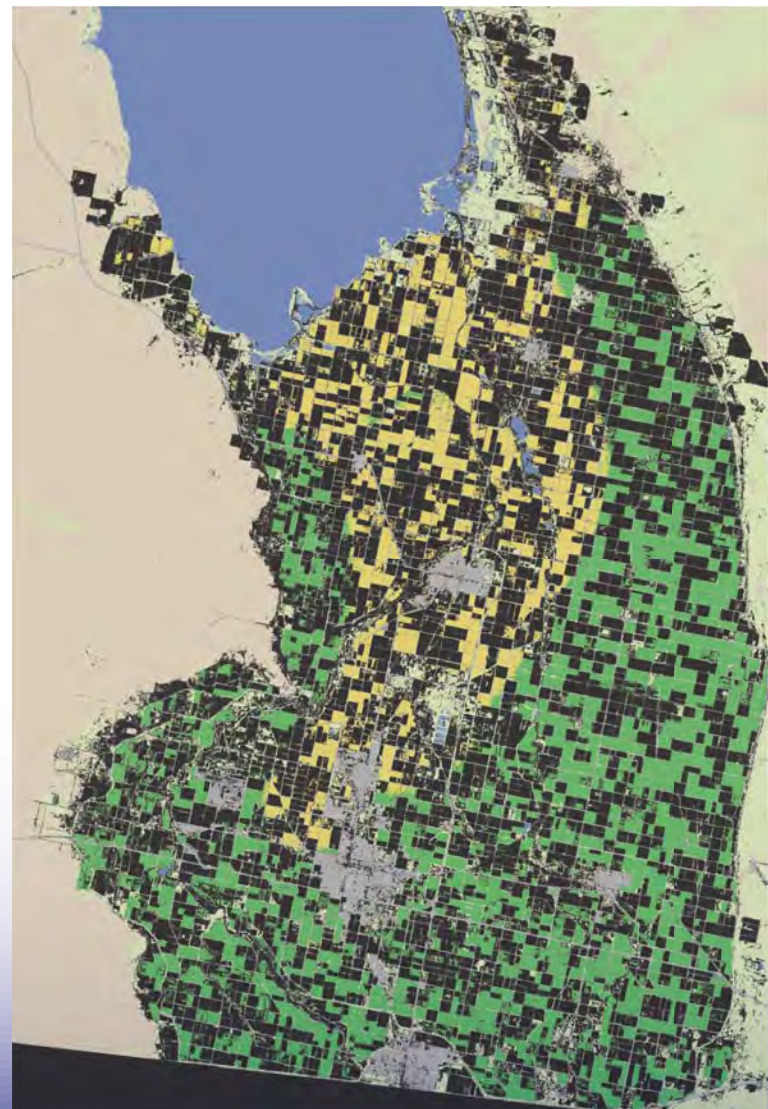
YEAR 2



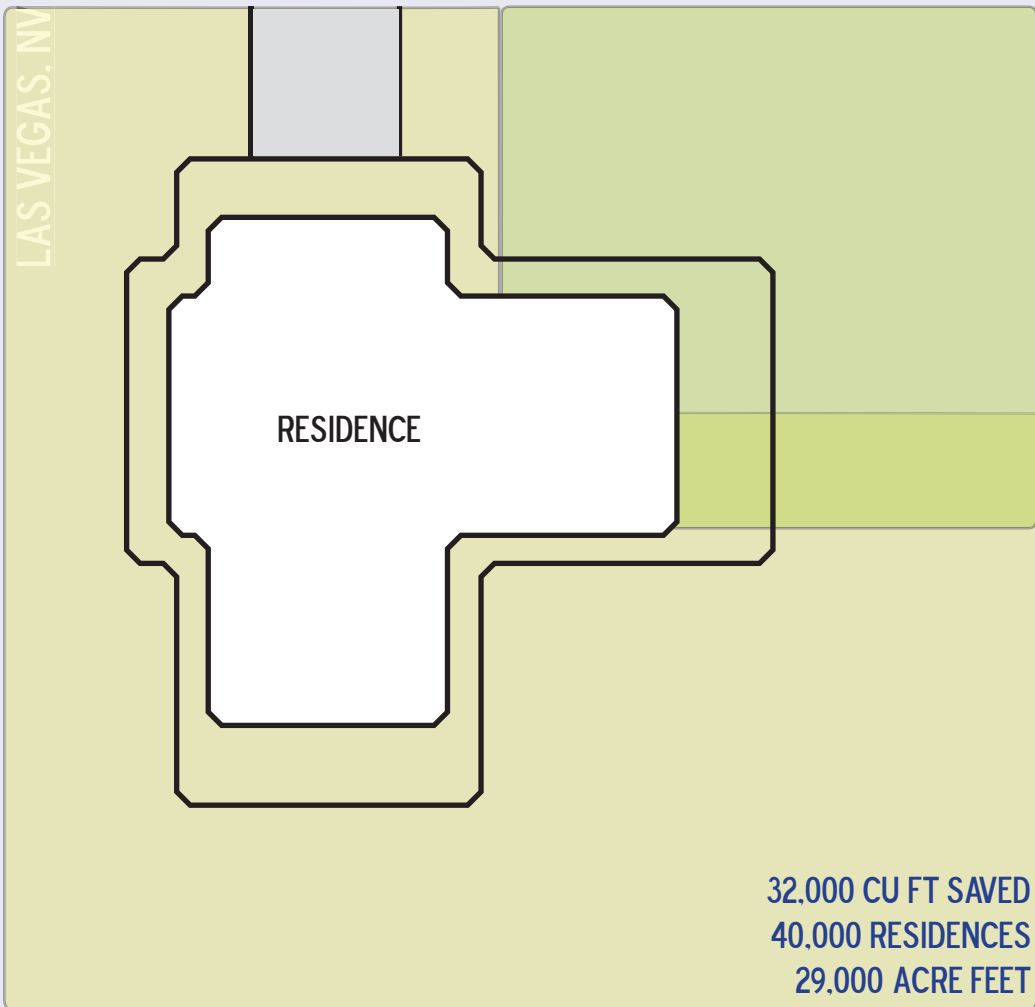
YEAR 3



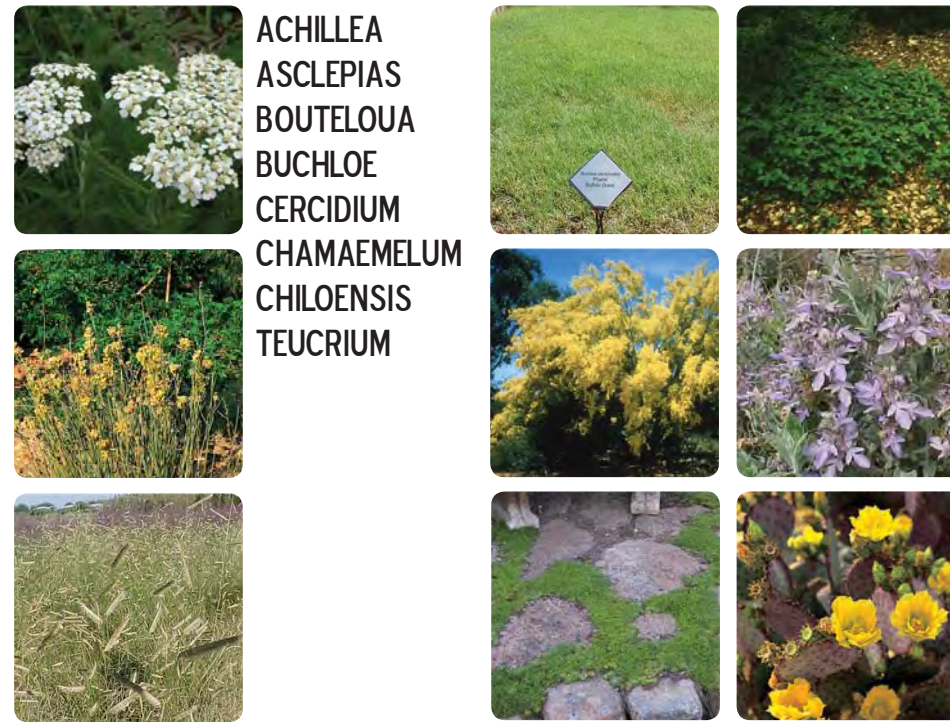
YEAR 4



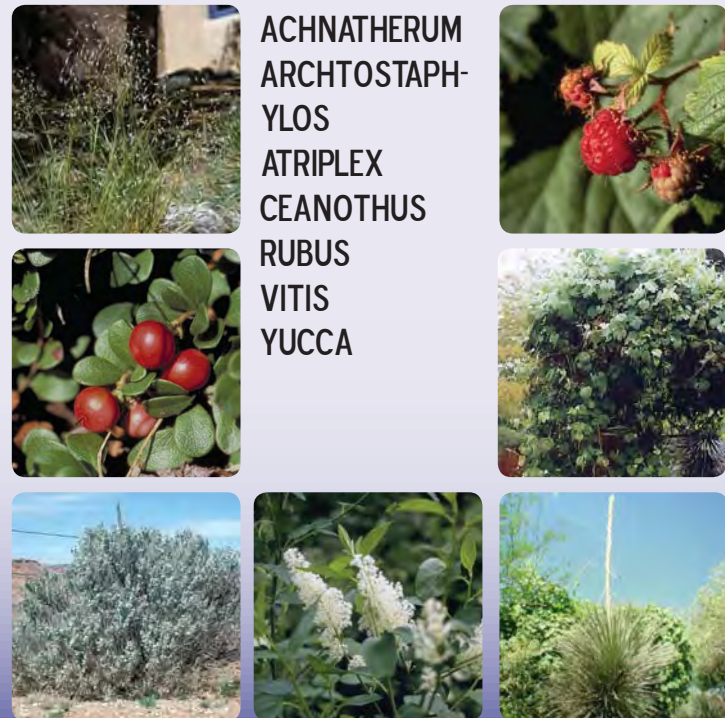
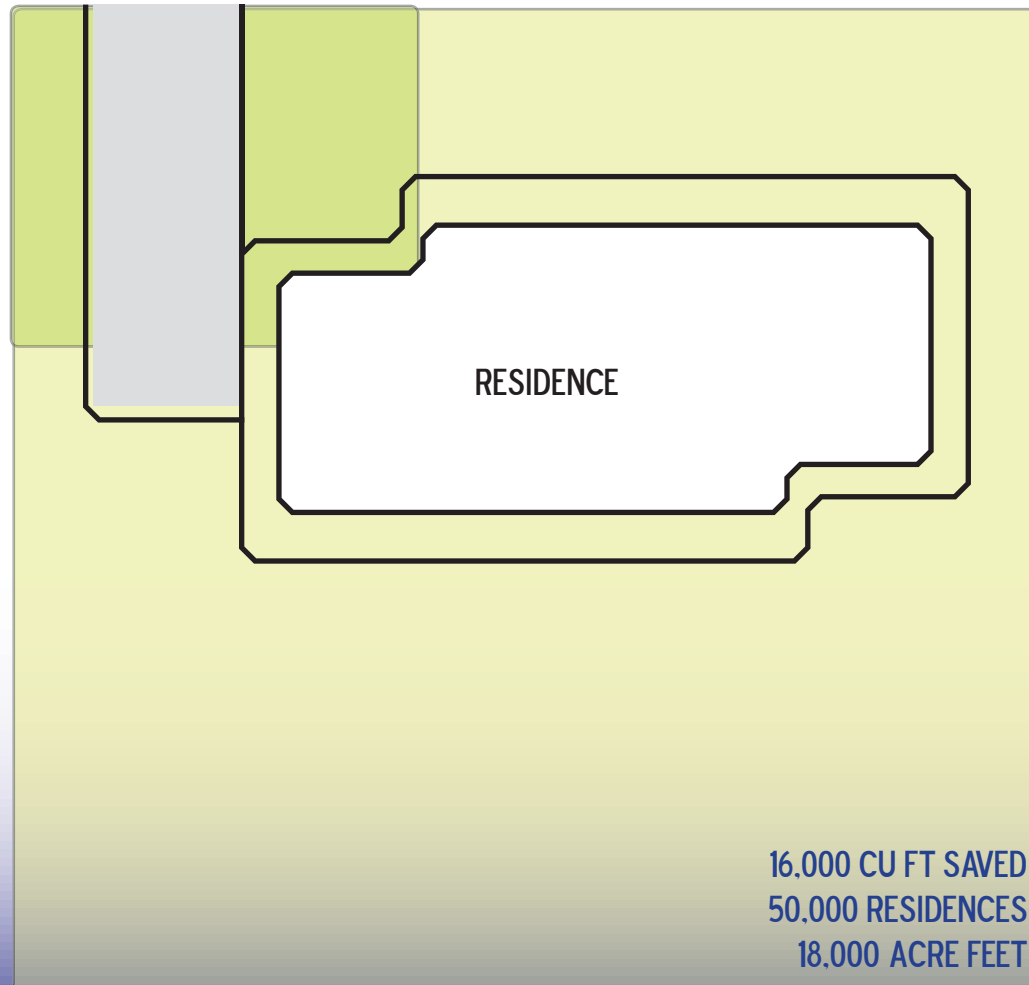
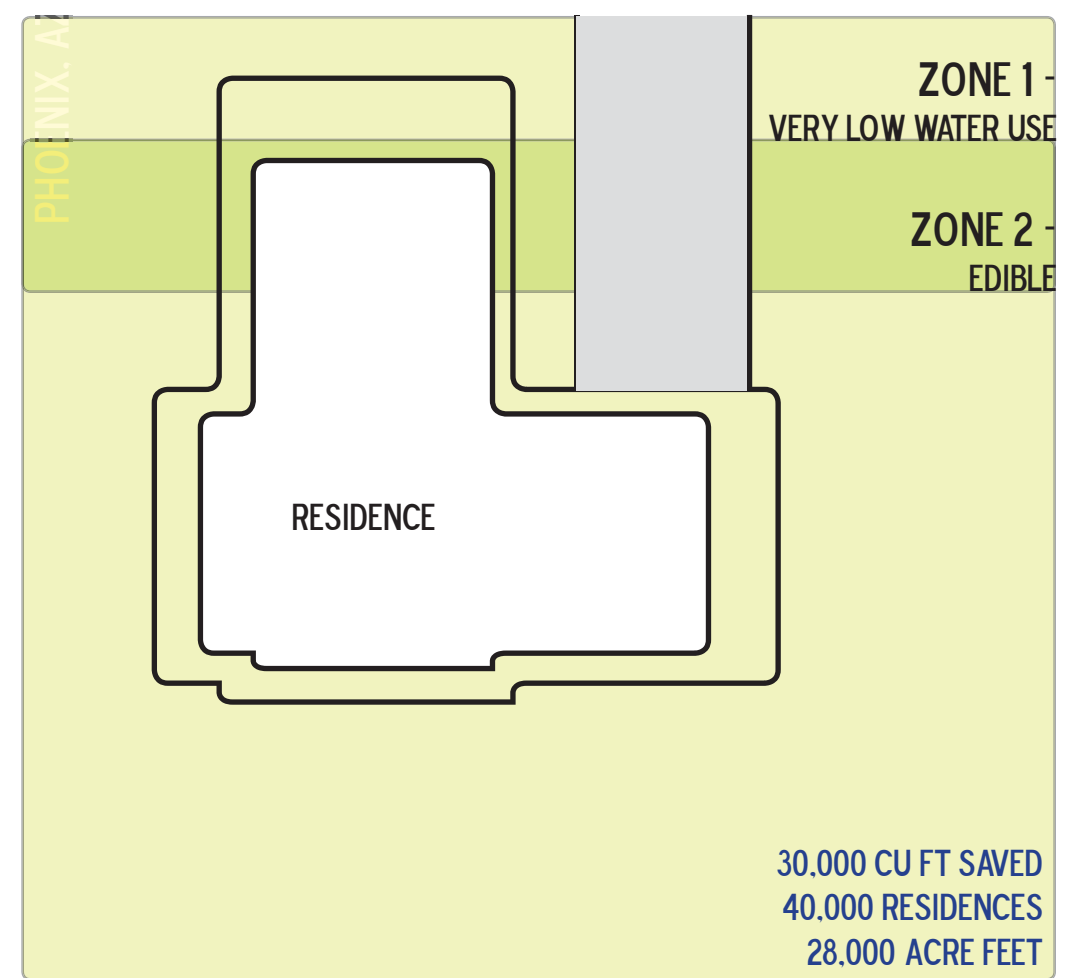
# PLANTING HYDROZONE TEMPLATES



LOS ANGELES, CA



- ACHILLEA
- ASCLEPIAS
- BOUTELOUA
- BUCHLOE
- CERCIDIUM
- CHAMAEMELUM
- CHILOENSIS
- TEUCRIUM



- ACHNATHERUM
- ARCHTOSTAPHYLOS
- ATRIPLEX
- CEANOTHUS
- RUBUS
- VITIS
- YUCCA

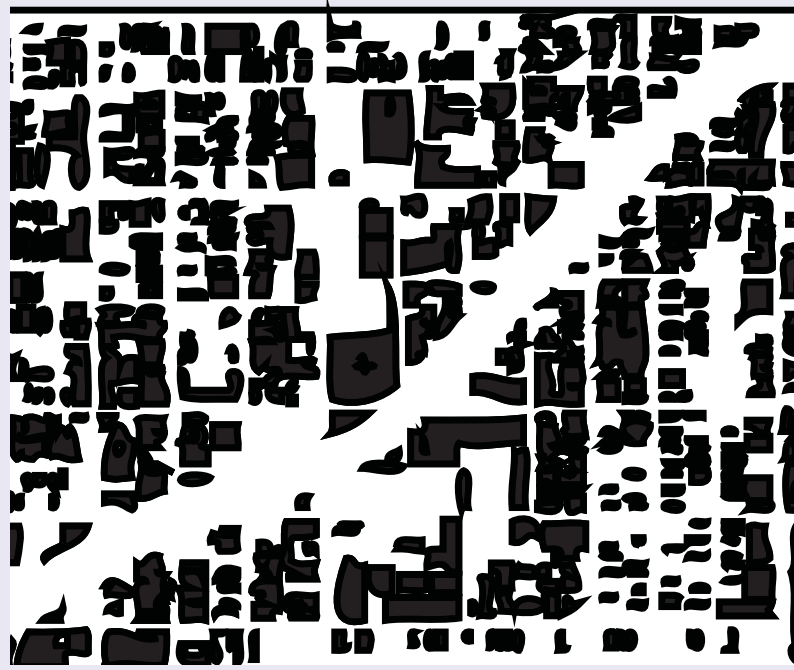
- BULBINE
- ECHINOCACTUS
- FOUQUERIA
- LOPHOCEREUS
- MYRTILLOCACTUS
- OPUNTIA
- PEDILANTHUS
- TEPHROCACTUS



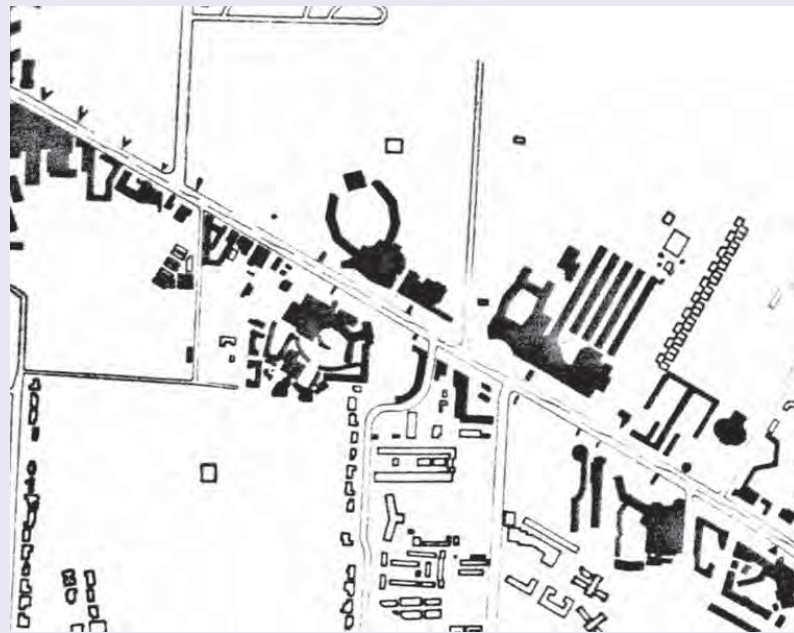


# FIGURE GROUND & URBAN WATER

DENSITY  
SPRAWL  
RESOURCE CONSUMPTION



LOS ANGELES



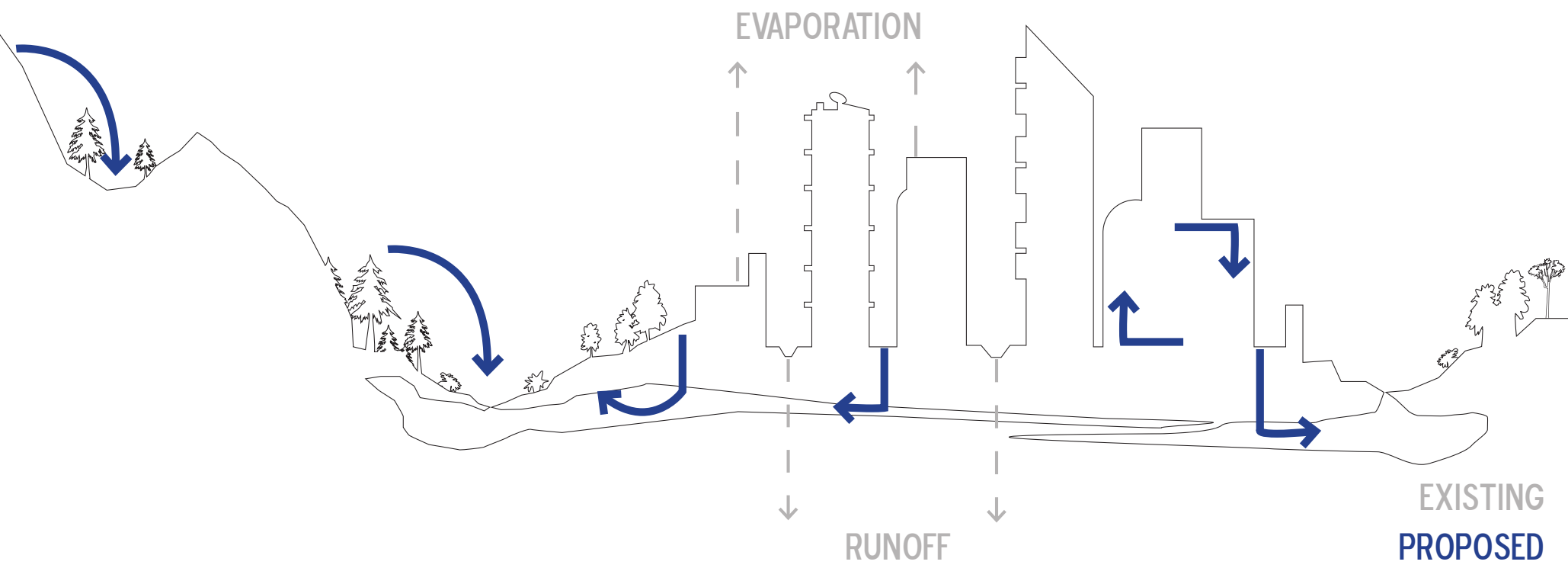
LAS VEGAS



PHOENIX

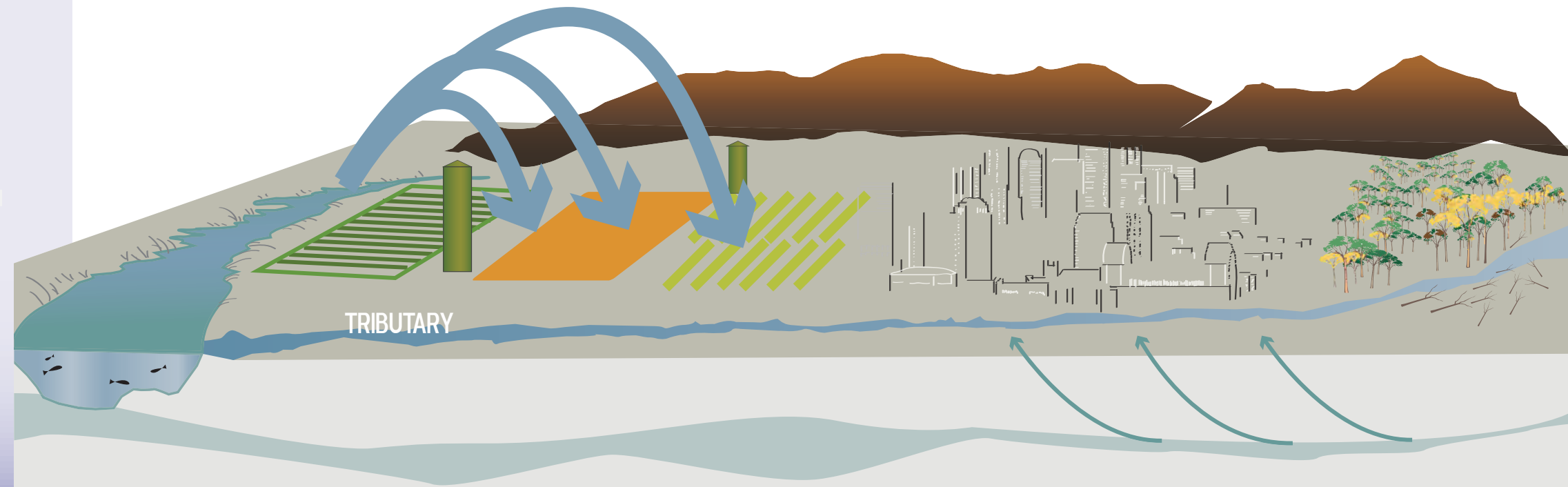
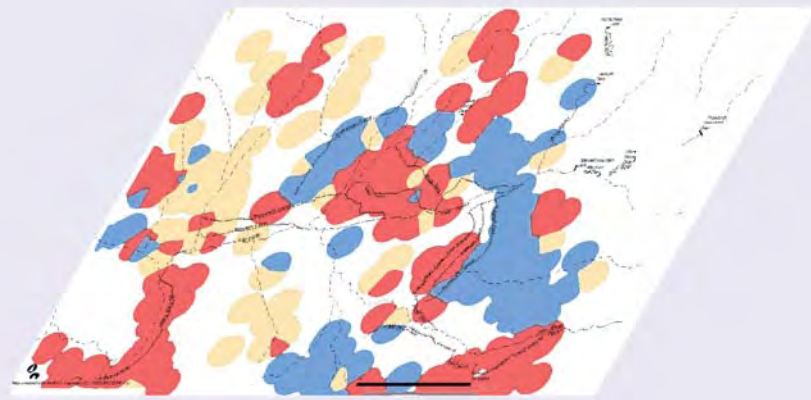
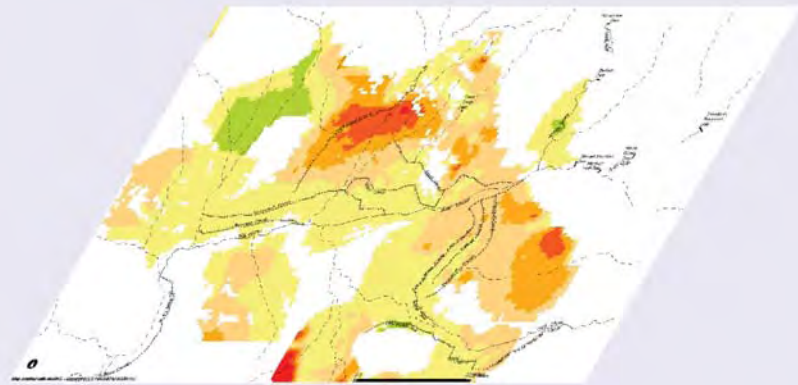


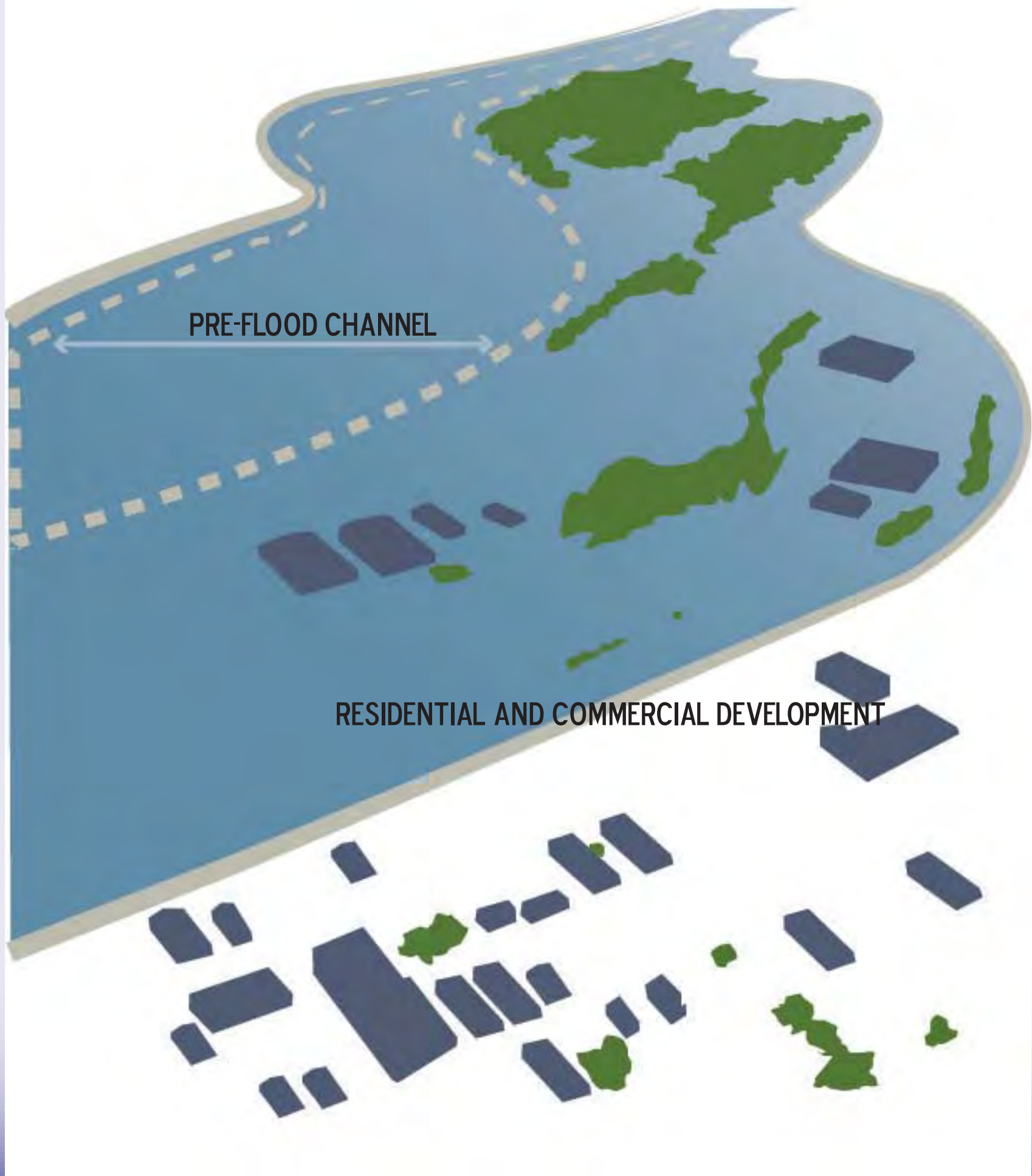
BARCELONA



# GROUND WATER DEPLETION

LOSS OF VEGETATION  
GROUND SUBSIDENCE  
WATER DEFICITS





# FOUR YEAR FLOOD PULSE

