

# Tehama-Colusa Canal Authority

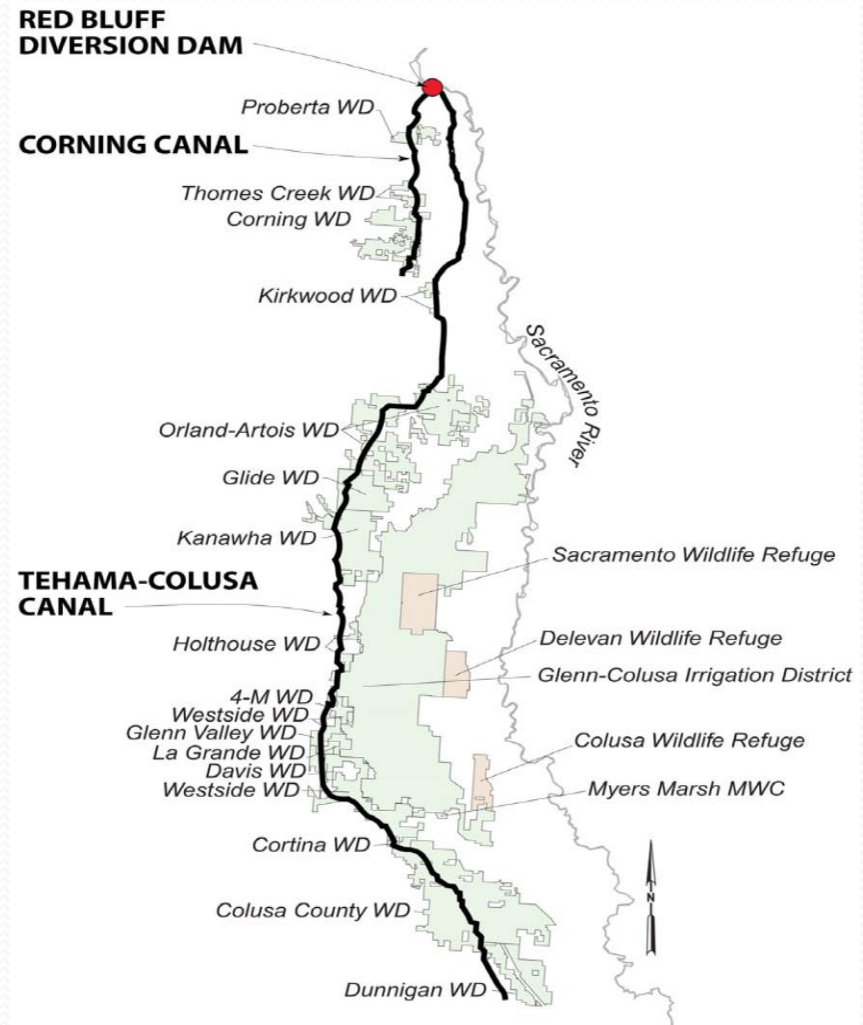
## Water Year 2015 Drought Impacts



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# Tehama-Colusa Canal Authority

- Operate & Maintain Sacramento Canals Unit of the Central Valley Project
  - Tehama Colusa Canal (110 miles)
  - Corning Canal (22 miles)
  - Funks Reservoir
  - Red Bluff Diversion Facilities
- Serves 17 Water Districts with CVP water service contracts throughout a four county service area (Tehama, Glenn, Colusa, and Yolo County)
- Total TCCA District Contract amounts = 318,700 acre feet
- Irrigation to 150,000 acres
  - almonds
  - pistachios
  - walnuts
  - prunes
  - olives
  - rice
  - tomatoes



# Impacts to CVP Water Supply Reliability

- Central Valley Project Improvement Act
- Trinity Record of Decision
- SWRCB Bay Delta Water Quality Plans
- Endangered Species Act; Central Valley Project OCAP Biological Opinions by NMFS and USFWS (2006 and 2009)

## Historical CVP Agricultural Water Allocations

<u>YEAR</u>	<u>NOD</u>	<u>SOD</u>	
1977	25	25	C
77-89	100	100	4D & 1C
1990	50	50	C
91	50	50	C
92	25	25	C
93	100	50	AN
94	35	35	C
95	100	100	W
96	100	95	W
97	90	90	W
98	100	100	W
99	100	70	W
2000	100	65	AN
1	60	49	D
2	100	70	D
3	100	75	AN
4	100	70	BN
5	100	85	AN
6	100	100	W
7	100	50	D
8	40*	40	C
9	40**	10	D
10	100***	45	BN
11	100	80	W
12	100****	40	D

C= CRITICAL  
D=DRY  
W=WET  
AN=ABOVE NORMAL  
BN= BELOW NORMAL

\* = Decrease of 5% on 6-3-2008

\*\* = Started at 5%; Increase to 40% on 5-22-2009

\*\*\* = Started at 0%; Increase to 50% on 3-16-2010; Increase to 100% on 4-15-2010

\*\*\*\* = Started at 30% on 2-22-2012; Increase to 100% on 4-13-2012

# TCCA Water Shortage Tools

- In-district grower transfers (move water to permanent crops)
- In-basin Project Water transfers (5-year accelerated water transfer document). CVPIA Section 3405(a)(1)(M)
- Groundwater- Warren Act Contracts (5-year TC wide Warren Act Contract; limited availability and water quality concerns)
- Shasta critical years- idling/groundwater substitution transfers

# 2015 Drought Response

## 2014 & 2015: First Ever 0% Water Allocations

- Fallowing of Approx. 70,000 acres
- Water Transfers/Purchases via Crop Idling and Ground Water Substitution (Forbearance Agreements)
- Greatly Increased Ground Water Pumping
- Warren Act Contracts (Relaxed Water Quality Requirements and Water Monitoring Program)
- Installation of Lift Pumps at Several Check Structures
- Enhanced Conservation and Deficit Irrigation

# 2015 Drought Impacts

- Greatly Increased Cost of Water
- Increased Conveyance and Delivery Costs
- Increased Reliance and Reduction of Reserve Funds
- Deferred Maintenance and Staffing
- Stress to Permanent Crops due to Deficit Irrigation  
(Long-term Impacts)
- Increased Ground Water Use
- Local Economic Impacts Associated with Crop Idling
  - Labor Impacts
  - 3<sup>rd</sup> Party Local Economic Impacts

# Opportunities to Reduce Drought Impacts

- Improved communications with USBR regarding water allocation announcements
- Streamlining of the environmental/ regulatory/ administrative process for water transfers (federal, state, and local agreements)
- Integrated Regional Water Management Planning
- Rescheduling
- New surface storage – Sites Reservoir

# Questions?

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