Wethind Conservation in The San Joaquin Valley

Partnerships are Key



Landowners, Conservation Partners, & Ducks Unlimited

Working as a Team to Conserve & Manage Wetlands in the hearing the San Joaquin Valley

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A brief history of the San Joaquin Valley

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- Located in the rain shadow of the Coast Range, this valley only receives 9 inches of rain on average.
- Despite its lack of rain, it contained the largest freshwater lake west of the Mississippi River and during wet years, Julare Lake covered over 690 square miles in the southern end of the valley.
- Tulare Lake coupled with Kern Lake and Buena Vista Lake provided the majority of early season Central Valley habitat for waterfowl until winter rains began replenishing wetlands and floods crept across the floodplains in the northern San Joaquin and Sacramento Valleys
- Water diversions in the late 1800s through mid 1900s caused many of the lakes and their associated wetlands to be converted.

A brief history of the San Joaquin Valley cont.

- Miller and Lux's large pastures in Merced County that were seasonally flooded became duck clubs, developed into the epicenter of waterfow habitat in the San Joaquin Valley, and became known as the Grassland Ecological Area (GEA).
- Other duck clubs were sold and became state and federal refuges.
- Many of the remaining duck clubs became permanently protected with conservation easements during the 1980s and 1990s.
- The GEA is different from the Sacramento Valley as it doesn't rely on agriculture such as wintered flooded rice and solely is dependent on managed freshwater wetlands. Additionally, most wetlands are irrigated and flooded by surface water conveyed and managed by Grassland Water District – the only water district in the world whose sole mission to provide water to wetlands!
- These wetlands are the largest complex of managed wetlands in the West!
- Without partnerships, we would not have conserved and managed wetlands providing habitat for millions of waterfowl, waterbirds, and shorebirds

Evolution of a Habitat Project

 Dollars are raised through Grassroot Events (i.e., a DU dinner) and from donations from donors, corporations, and foundations.

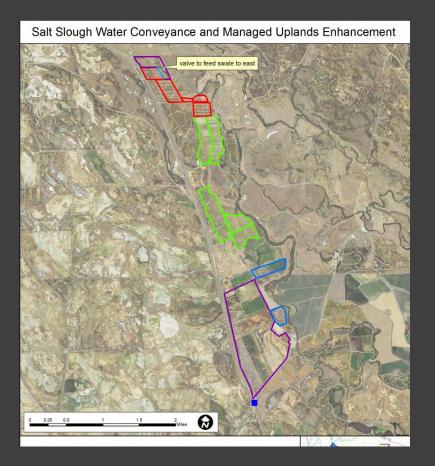
Those dollars are pooled and earmarked for various initiatives within the state they were raised from and across the continent.

but are vital because they rac (tate) development and investment of millions of dollars back into California each year to develop waterfowl and were of the state of the second s

What's happened in past 5 vease

San Luis NWR Complex

- Funding: California State Duck Stamp, NAWCA, USFWS, DU, and private funds
- Fixed re-lift pumps that provide water to West Bear and San Luis Units
- Improved 2 miles of canal and water conveyance structures to facilitate water delivery at Kesterson Unit
- Improved levees and expanded wetland footprints by over 250 acres within Channels 1 and 2, East Bear Creek Unit
- Secured funding to expand wetland footprints within Channels 4 and 5, East Bear Creek Unit
- Secured funding to improve drainage from adjoining duck clubs and within Blue Goose Unit
- Total investment by end of 2022 \$1.234 Million



Los Banos Widlife Area and North Grassland Wildlife Area – Salt Slough and Gadwall Units

- Funding: Wildlife Conservation Board, CDFW, and DU
- \$1.2 Million invested at these three wildlife areas
- 300-acre native grass restoration at NGWA Salt Slough Unit
- Replaced major water delivery and drainage conveyance structures
- Installed pipelines and re-graded upland fields that will benefit pheasants, doves, quail, and nesting birds

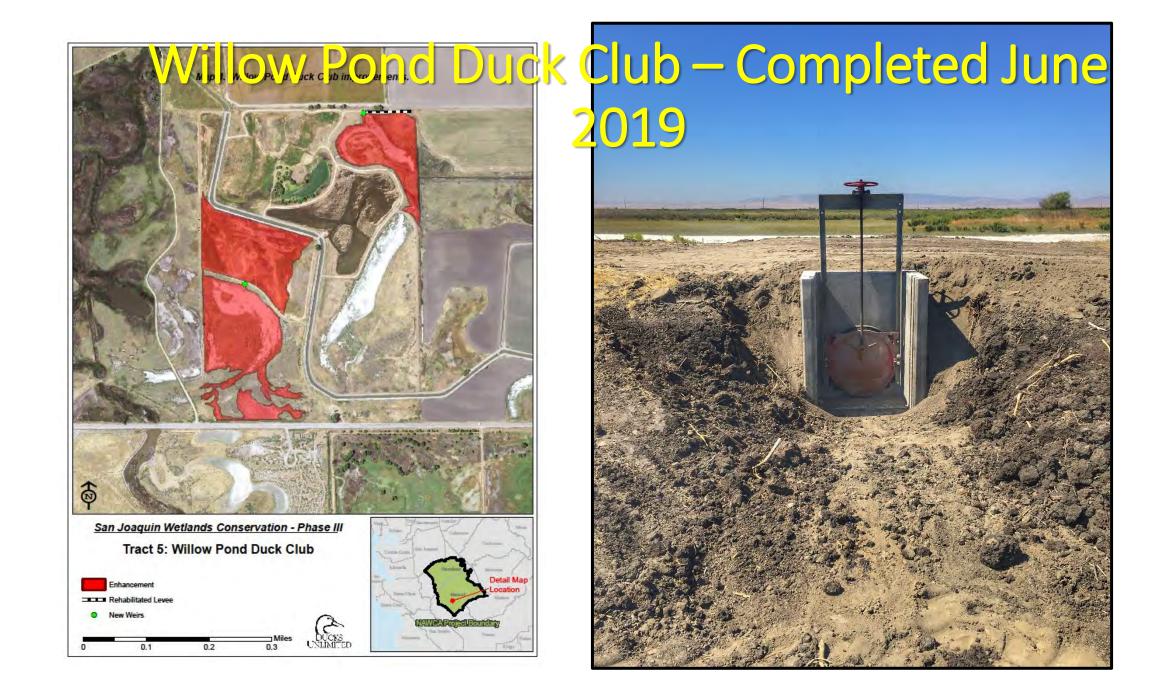
Mendota Wildlife Area

- Funding: California State Duck Stamp, NAWCA, CDFW, and DU
- \$1,005,910 of state and federal dollars has been brought to the wildlife area
- Parking lot 20 was re-graveled and expanded
- Five re-lift pumps were upgraded with new motors, electrical components, discharge pipes, and pump stands
- DU designed swales in Field 27 to improve water delivery and drainage, and the excavated material was used to improve 1.5 miles of levee along the eastern
 - Three miles of Reservoir 1 and E Ditch were re-sloped and deepened to improve
 - lew aluminum pipeline was tableated to prevale tragation water to Field 52, a
 - for the weather conditions and access the wildlife

Volta Wildlife Area

• Funding: NAWCA and DU

• \$45,500 to fix radial gate which is the main mechanism to check water within the wildlife area canal which is then re-lifted and conveyed across the wildlife area



Gable Land and Cattle Company -Water conveyance and drainage improvements: June 2019 – July 2020



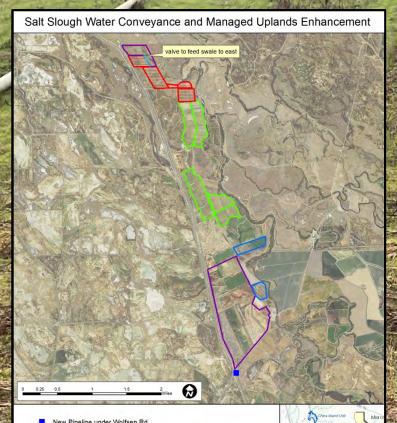
Lonesome Mallard Duck Club -Water conveyance and drainage improvements: August 2019



Agatha Farms – August 2019 – Joint project with CWA



North Grasslands WA – Salt Slough (SS) Unit Year 2 of Native Grass Restoration



- New Pipeline under Wolfsen Rd.
- New 18" PVC Pipeline
- Managed Upland Field Grading and Wetland Enhancement
- S Managed Upland Field Grading
- C Upland Grading / Weed Treatment / Native Grass Planting CS Area of Benefit from Water Conveyance Improvement
- Project Location









Grassland Water District Water Conveyance Improvements

2021 Projects

- 1) Lawrence East Wasco (Tulare) solar, pipelines, levees, & water control structures (wcs)
- 2) Lawrence DeLorenzo Wasco (Tulare) solar, re-circulation system, levees, & wcs
- 3) Fortune Farms Los Banos (S Grasslands) swales, levees, & wcs
- 4) Big Sandy LCC Los Banos (N Grasslands) swales, levees, & wcs
- 5) Wild Duck Farms South Dos Palos (S Grasslands) swales & wcs
- 6) Ward Farms South Dos Palos (S Grasslands) swales, levees, & wcs
- 7) Mesquite Sportsman Club South Dos Palos (S Grasslands) swales & wcs
- 8) GWD Lone Tree LCC Gustine (N Grasslands) solar array & actuator
- 9) Big Water Land Company Los Banos (S Grasslands) swales & wcs
- 10) Tracy Duck Club Gustine (N Grasslands) swales, levees, & wcs
- 11) San Luis NWR Blue Goose Unit (N Grasslands) water delivery and drainage improvements 12) Eureka Farms – Phase I and II - swales & wcs
- 13) Bird Ranch at San Luis Creek Ranch LLC wetland restoration and public access improvements
- 14) Merced NWR East Grasslands new water delivery system
- 15) Canebrake Ecological Reserve Weldon new water delivery system and wetland enhancment

Grant Updates

- 2 CA duck stamp projects have been submitted and are being reviewed improving water conveyance and drainage at Merced NWR. Total ask is \$403,959
- 2 NAWCA grants are approved and recommended, respectively, for funding. Totaling \$2.789 Million
- Submitted a NAWCA grant for \$1 Million in December
- Submitted two Prop 1 Pacific Flyway grants Total ask is ~\$3 Million
 - Focus on infrastructure improvements
 - Includes projects along Santa Ana River, Kern River NWR, Grassland Water District, San Luis NWR – Kesterson Unit, and private landowners.



Thank you for your support of Ducks Unlimited – your contributions make huge strides for waterfowl and wetlands conservation here in California and across North America!