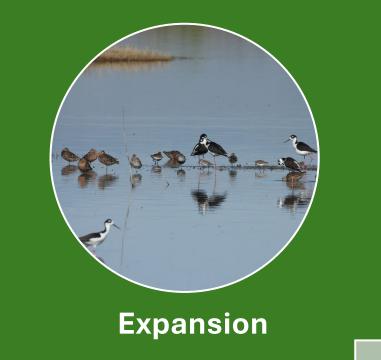




• BirdReturns was launched to fill the wetland habitat gap for shorebirds during fall and spring migration by engaging farmers to flood agricultural lands.



• Over the next 10 years, BirdReturns added a private wetland program; and increased habitat acreage, species targets, times of year, geography, land cover types, and landowner participations.

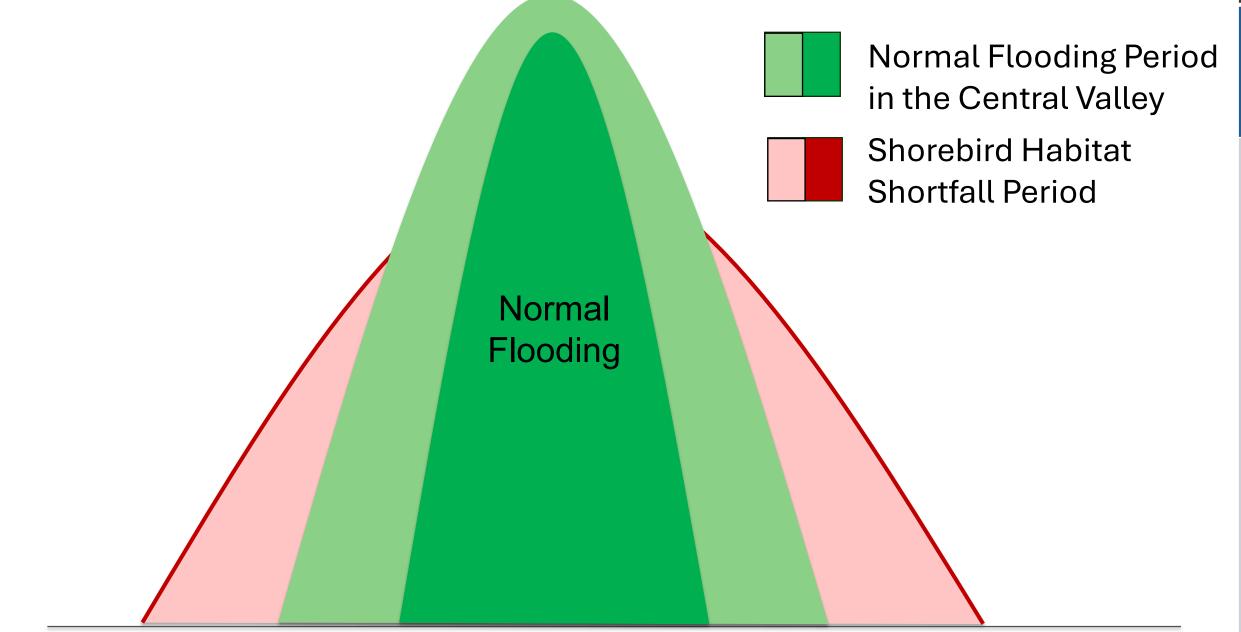
### Examples of Central Valley Shorebirds



• Beginning in 2021 BirdReturns became an initiative of the Migratory Bird Conservation Partnership with support from CDFW.



### CV Shorebird Habitat Shortfall Period



Aug Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul

## An incentive program that compensates farmers and wetland managers in the **Central Valley for providing habitat for** migratory birds.

# FARMLANDS

## Late Summer

- **Practice & Purpose:** Shallow-flooded (mudflat-4") habitat for migrating shorebirds (e.g., sandpipers, plovers, avocets, stilts, etc.)
- **Application/Bid:** Competitive bidding process
- **Geography:** Sacramento Valley and Sacramento-San Joaquin Delta
- Habitat Timing: Mid-July through September (choose a 5-week habitat enrollment)

## Summer

- Practice & Purpose: Flood up wetland to provide nesting and brood-rearing habitat for shorebirds and waterfowl.
- **Application/Bid:** Fixed Price
- Geography: Suisun Marsh, Sacramento Valley, Delta, Tulare, and San Joaquin Valley
- Habitat Timing: April to July or April to October

# WETLANDS

- Sprin Practice & Purpose: Gr down
- wetland to provide spring habitat for migrating sho and waterfowl.
- **Application/Bid**: Fixed
- Geography: Suisun Mar Sacramento Valley, Delta San Joaquin Valley
- Habitat Timing: Choose April to draw down wetla

## Partnership Impacts (2021-2024)

# Wetlands

- **Species Diversity**: • 28 species of <u>shorebirds</u>
  - 79 total bird species
- **Total Birds**:
  - 54,760 <u>shorebirds</u>
  - 128,124 total birds (9.2 birds/hectare)
- Habitat: 52,333 acres
- Number of Participants: 144 unique participants

## **Sandhill Cranes**

- **Practice & Purpose:** Flooded roost habitat (resting) and dry forage habitat (feeding) for overwintering greater sandhill cranes
- **Application/Bid**: Fixed price
- **Geography:** Sacramento Valley and Sacramento-San Joaquin Delta
- Habitat Timing: October through mid-March (choose an 8-week minimum enrollment)

g	Fall
Gradually draw	Practice & Purpose: Gradually flood
ng flooded	up wetland to provide early flooded habitat for migrating shorebirds and
orebirds	waterfowl arriving early or molting.
	<ul> <li>Application/Bid: Competitive</li> </ul>
l Price	bidding process
rsh,	<ul> <li>Geography: Sacramento Valley,</li> </ul>
a, Tulare, and	Delta, Tulare, San Joaquin Valley,
	Suisun Marsh (pilot)
se 1 week in	<ul> <li>Habitat Timing: August to October</li> </ul>
and	

## Farmlands

### • Species Diversity:

- 25 species of <u>shorebirds</u>
- 65 total bird species

### • Total Birds:

- 94,531 <u>shorebirds</u>
- 36,200 <u>sandhill cranes</u>
- 238,749 total birds (14.6 birds/hectare)
- Habitat: 23,437 acres

**Number of Participants**: 50 unique participants