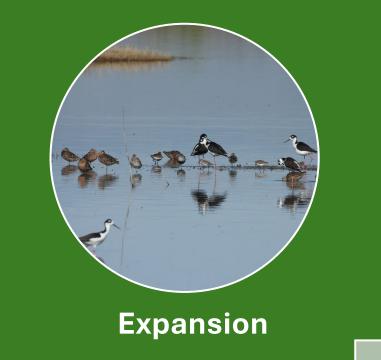




• BirdReturns was launched to fill the wetland habitat gap for shorebirds during fall and spring migration by engaging farmers to flood agricultural lands.



• 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.

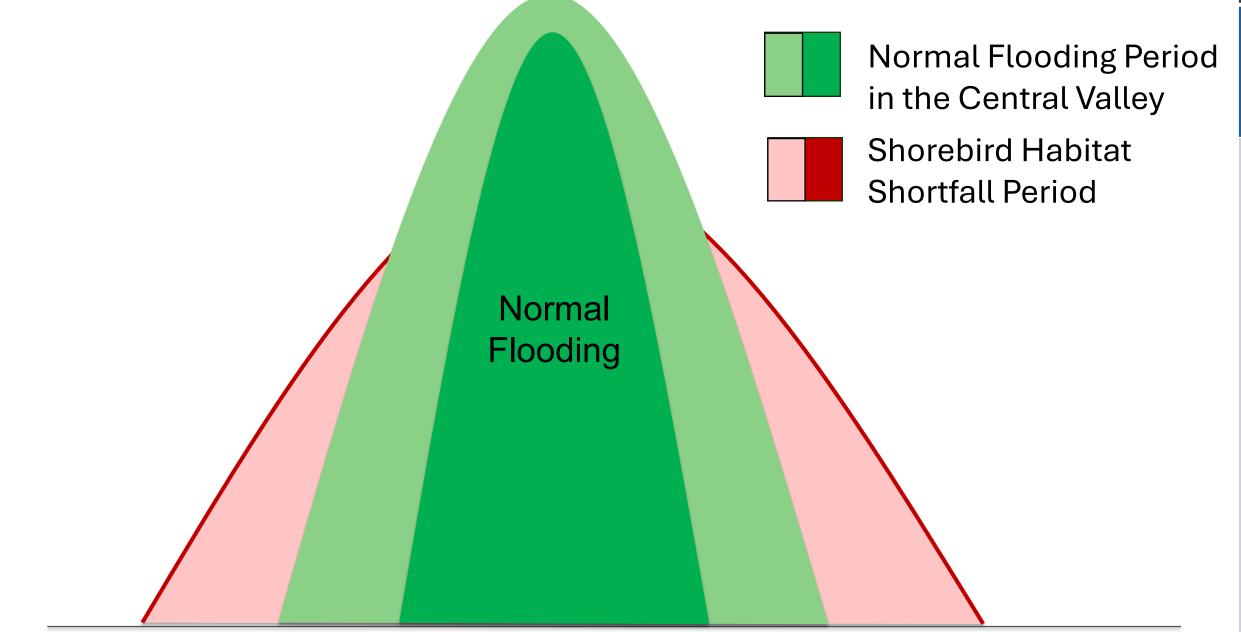
Examples of Central Valley Shorebirds



• 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. |
| | Application/Bid: Competitive |
| l Price | bidding process |
| rsh, | Geography: Sacramento Valley, |
| a, Tulare, and | Delta, Tulare, San Joaquin Valley, |
| | Suisun Marsh (pilot) |
| se 1 week in | Habitat Timing: August to October |
| 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