

**Grower: Karun Samran**

**Crop: Almonds**

**Location: Chowchilla, Madera County**



## Site Conditions



- Acreage = 5 fields (total 165 acres)
- Crop type = Almonds
- Fields 1 and 2 = 12 years old
- Fields 3, 4, and 5 = 6 years old
- Land IQ rating = Moderately good
- Soil Agricultural Groundwater Banking Index rating = Good to moderately good

## Water Supply

- Chowchilla Water District (CWD) provided water at \$10 per acre foot.
- CWD notified grower when water was available for recharge.

## Soil Health

- Spread compost on berms post-harvest, 3 tons per acre.
- Applied shredded pruning brush in between plant lines.
- Cover cropping mix of clover and broadleaf mustards grown winter through spring.

## On-Farm Recharge Logistics

### **Labor needed:**

- One person to monitor recharge events.

### **Field infrastructure:**

- The original gravity flood irrigation infrastructure was still intact, so no prep work was required.
- CWD metered turnouts.

### **Field preparation and management:**

- Flood 10 rows at a time using one underground water valve.
- Upon filling the rows with 3-4 inches of water, shut off the valve and rotate to the next 10 plant rows.
- Repeated this process until the entire field has been flooded.

# Recharge Events

## **Total applied water:**

Water applied at various times from 1/13/2023 through 2/6/2013.

- 175 acre-feet over 165 acres, about 1.1 feet per acre

## **Total water recharged:**

- 172.6 acre-feet over 165 acres, about 1 foot per acre

For more information, contact: Rogell Rogers, Agronomist, Sustainable Conservation, at [rrogers@suscon.org](mailto:rrogers@suscon.org) or 209-576-7729 x346.