

**California Department of Conservation
FARMLAND MAPPING AND MONITORING PROGRAM**

2016 FIELD REPORT

COUNTY: Solano

FIELD MAPPER(S): Andrew McLeod

IMAGE DATA USED:

Source: National Agricultural Imagery Program (NAIP)
Acquisition date: Summer 2016
Data description: 1 meter resolution, true color mosaic
Coverage gaps: None
Additional imagery used: None

WRITTEN, DIGITAL & ORAL INFORMATION SOURCES:

The following entities and individuals provided information used to conduct 2016 mapping.

Local Review Comments (submitted by cities, counties, & others on 2014 maps)
None
Personal Contacts Ashton Sturr, Solano County Department of Agriculture/Weights and Measures Shakoora Azimi-Gaylon, Sacramento-San Joaquin Delta Conservancy
Websites Used for Reference Google Maps: www.google.com/maps Cullinan Ranch Restoration Project: https://www.epa.gov/sfbay-delta/sf-bay-water-quality-improvement-fund-interactive-project-map https://blog.savesfbay.org/2015/01/the-story-of-cullinan-ranch/
GIS Data Used for Reference California Protected Areas Database (2016)

2014-2016 CHANGE SUMMARY:

Changes made during the map update are summarized by type and location. Particular attention is paid to large or unusual changes and their estimated acreages. Please note that land use type, size of land use unit, soil quality, and Farmland of Local Importance definition (if any) determines the final Important Farmland (IFL) category. [See definitions](#) at bottom of table.

Conversions to Urban Land	
Irrigated Farmland to Urban Land	4 changes
Conversions from irrigated farmland to Urban Land included the construction of a new solar facility for the UC Davis Campus (~ 50 acres) as well as a truck staging area near the I-80/Pedrick Road interchange (~50 acres).	
Nonirrigated Land Uses and Other Land to Urban Land	34 changes
These changes were due to the construction of homes, commercial buildings and infrastructure. The Allendale quad had the most significant changes of this type, including new warehouses (~ 45 acres) just west of the Nut Tree Airport and approximately 40 acres of new homes along Whispering Ridge Drive in northern Vacaville. The largest single change was due to new homes (~60 acres) in the Gold Ridge subdivision in Vacaville Junction, with 15 additional acres of homes added in the nearby Madison subdivision.	
Conversions from Irrigated Farmland aside from urbanization	
Irrigated Farmland to Nonirrigated Land Uses	47 changes
The majority of these changes were due to irrigated farmland or pastureland having been fallow for three or more update cycles. These changes were located throughout the county and most were for less than 50 acres. The largest single change was approximately 120 acres on the Rio Vista quad. A group of large conversions were clustered in the northeastern part of the county, of approximately 95 acres and 75 acres on the Dozier quad and approximately 65 acres and 60 acres on the Dixon quad. The Fairfield South quad also saw a pair of large conversions, of approximately 90 acres and 80 acres.	
Irrigated Farmland to Other Land	5 changes
The majority of these changes were due to irrigated farmland or pastureland having been fallow for three or more update cycles. The largest such conversion was of approximately 30 acres for a new pond and building, southwest of Elmira.	
Conversions to Irrigated Farmland	
Nonirrigated Land Uses and Other Land to Irrigated Farmland	42 changes
These conversions were due to the addition of new orchards, field crops, row crops, and irrigated pasture. Most of the changes were smaller than 100 acres. The largest change was the addition of nearly 1,000 acres, mostly almonds, on the Elmira quad. Another large change was the addition of approximately 320 acres of row crops on the Saxon quad. The Dixon and Dozier quads were particularly active, with the addition of nine plots, in total, for an aggregate of approximately 360 acres of new irrigated farmland.	

Unusual Changes

(Types of change not already described or special circumstances during the 2016 update.)

Conversion from Other Land to Water: In the San Pablo Bay, the Cullinan Ranch wetland restoration project resulted in approximately 1,275 acres being reclassified as Water. Wheeler Island (~900 acres), which experienced unintentional levee breaches in 2006, was also reclassified from Other Land to Water as there seems to be no plans to reclaim this tract more than a decade later.

Conversion from Urban Land to Other Land or Farmland: These changes were due to a lack of sufficient infrastructure and improved imagery providing more accurate delineation of Urban Land. The largest such change was of approximately 100 acres on the southern edge of Dixon, where there has been no recent construction in the Valley Glen subdivision.

Areas of Concern for Future Updates

(Locations or map categories noted as needing careful checking during 2018 update, and reasons.)

The storms of early 2017 resulted in several levee breaches in the Suisun Bay and Marsh area. Combined with rising sea levels, some of these levees may not be repaired, resulting in enlargement of the area classified as Water. Intentional wetland restoration may have similar results in both Suisun and San Pablo Bays.

Definitions:

Irrigated Farmland includes most irrigated crops grown in California. When combined with soil data, these farmed areas become the Important Farmland (IFL) categories of Prime Farmland, Farmland of Statewide Importance & Unique Farmland. Because of the nature of the IFL definitions, some irrigated uses, such as irrigated pastures or nurseries, may not be eligible for all three IFL categories.

Nonirrigated land uses include grazing areas, land used for dryland crop farming, and formerly irrigated land that has been left idle for three or more update cycles. These uses are frequently incorporated into county Farmland of Local Importance definitions.

Other Land includes a variety of miscellaneous uses, such as low density rural residential development, mining areas, vacant areas and nonagricultural vegetation. Confined animal agriculture facilities are mapped as Other Land unless incorporated into a county Farmland of Local Importance definition.

Urban Land includes residential, industrial, recreational, infrastructure and institutional uses.

For more on map categories, including Farmland of Local Importance definitions, visit the [FMMP web site](#).

LABOR ESTIMATE:

Time estimates for conducting the 2016 update.

Image interpretation, start date: 1/6/2017
Image interpretation, number of days: 9
Ground truth dates: 3/10 and 3/16/2017
Number of days for post-ground truth clean-up: 6

Further information on the Farmland Mapping and Monitoring Program can be found at:

<http://www.conservation.ca.gov/dlrp/fmmp/Pages/Index.aspx>