



San Joaquin Land and Water Strategy

Exploring the Intersection of Agricultural Land & Water Resources in California's San Joaquin Valley

- Water scarcity, a changing climate, new regulations, and a growing population are just some of the challenges facing farmers and farmland in the San Joaquin Valley, California's largest agricultural region.
- To protect the most important farmland and water supplies in the region, American Farmland Trust (AFT) and Conservation Biology Institute (CBI) analyzed the distribution, quality, and future impacts to the region's farmland and water resources.
- This analysis led to several conclusions:
 1. High-quality farmland (more productive, versatile, and resilient) with a reliable water source is very limited. Only **nine percent** of the roughly six million acres of irrigated farmland in the San Joaquin Valley is high quality and experiencing low-water stress.
 2. **As many as 323,000 acres** are projected to be converted into low-density urban and rural residential uses by 2050 in the San Joaquin Valley, mostly around cities. Fifty-five percent of agricultural land that has a high risk of development is high-quality farmland.
 3. Due to a variety of factors, **water demand could increase by 600,000 acre-feet per year** by mid-century.
 4. Groundwater regulations and proposed streamflow regulations are likely to reduce the amount of water available for farming. Thirteen percent of all agricultural water in the valley comes from over-drafted groundwater sources. Owing to increased evapotranspiration, **irrigation water may need to be augmented by 3.6 to 7.9 percent** in various parts of the San Joaquin Valley between now and mid-century.
- The findings of the study require further action to protect the San Joaquin Valley's best farmland and water resources. With initial focus in San Joaquin, Stanislaus, Merced, and Fresno Counties, AFT is launching a multi-year program centered around the development of agricultural land protection, water conservation, and groundwater recharge projects.

For more information, visit farmland.org/California or call the AFT Sacramento office at 916-448-1064.