# ARVIN-EDISON WATER STORAGE DISTRICT **2023 LAND USE SURVEY**



June 28, 2024
Prepared by Engineering Technician Jose Santana

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#### Introduction

This report summarizes the completed Spring and Fall 2023 Land Use Surveys for the Arvin-Edison Water Storage District (AEWSD or District). The District's Engineering Department collects both Spring (March through May) and Fall (September through November) land use data via field observations along with drone aerial imagery in areas with difficult access. The data is entered into a geographic information system (GIS) with aerial photography and parcel data to produce maps and summarize the data.

Land Use Surveys are required by the District's Repayment Water Service Contract with the Bureau of Reclamation (USBR). Section 31 (a) on page 65 of the Repayment Contract states, "The Contractor shall establish and maintain accounts and other books and records pertaining to administration of the terms and conditions of this Contract, including: the Contractor's financial transactions, water supply data, and Project land and right-of-way agreements; **the water users' land-use (crop census)**, land ownership, land-leasing and water use data; and other matters that the Contracting Officer may require. Reports thereon shall be furnished to the Contracting Officer in such form and on such date or dates as the Contracting Officer may require..."

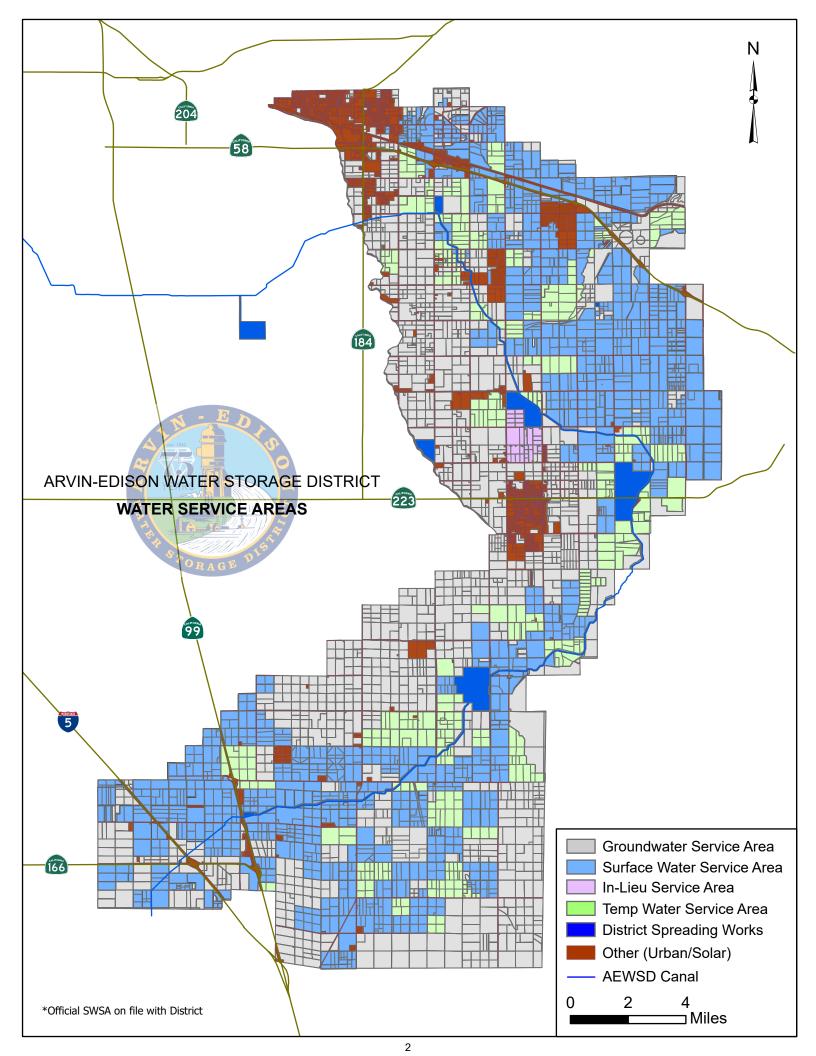
Additional uses of the Land Use Survey are utilized to meet DWR requirements, provide support data to JMLord Inc. for the annual "Assessment of Reasonable Water Requirements" for the entire District (SWSA and GWSA), and for inclusion into the District's Water Management Plan (another USBR requirement). This information is also provided, upon request, to water users/producers within the District for their personal use as well as the Kern County Water Agency for their county-wide summaries. In addition, District staff and its consultants use this report for various purposes, including but not limited to, annual Hydrologic Balance and SGMA compliance/Groundwater Management as well as Water Use Reviews and Lateral Prorate Studies (if necessary).

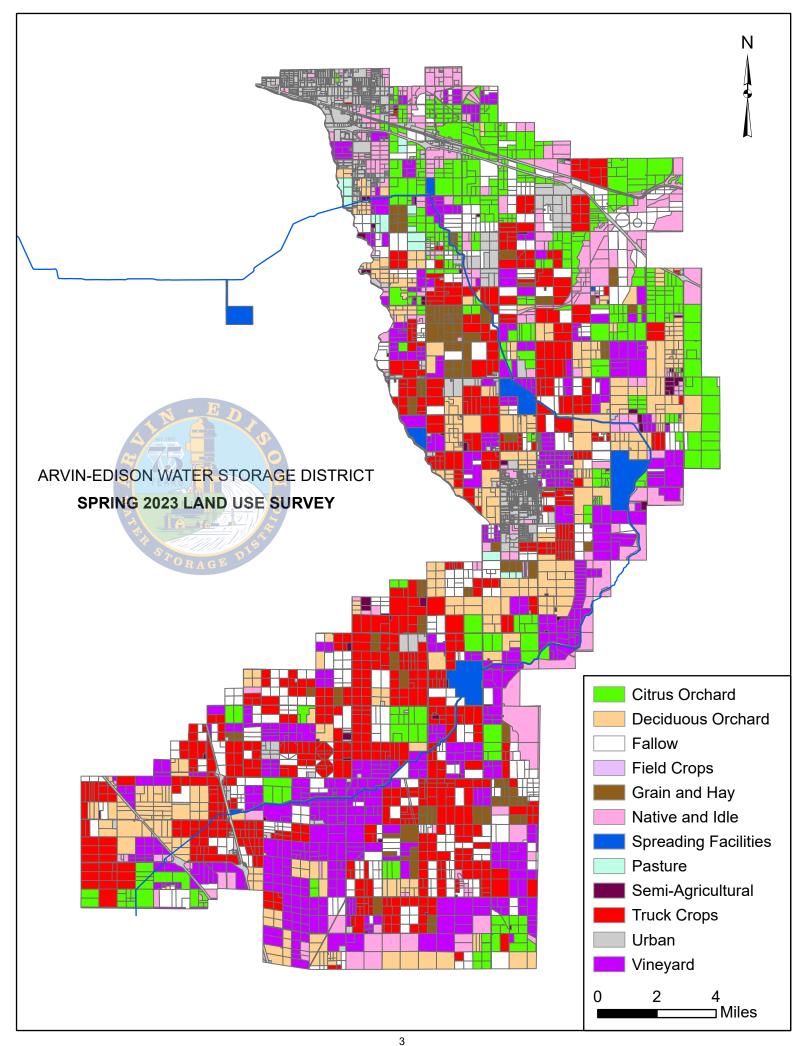
Land Use Classes are categorized according to the State of California's Department of Water Resources (DWR) "Standard Land Use Legend" as updated in December 2022 (enclosed within). The DWR Standard Land Use Legend categorizes land use into four (4) major classes: Agricultural, Semi-Agricultural, Urban, and Native. These classes are further subdivided by land use. Agricultural lands are subdivided by crops and irrigation methods.

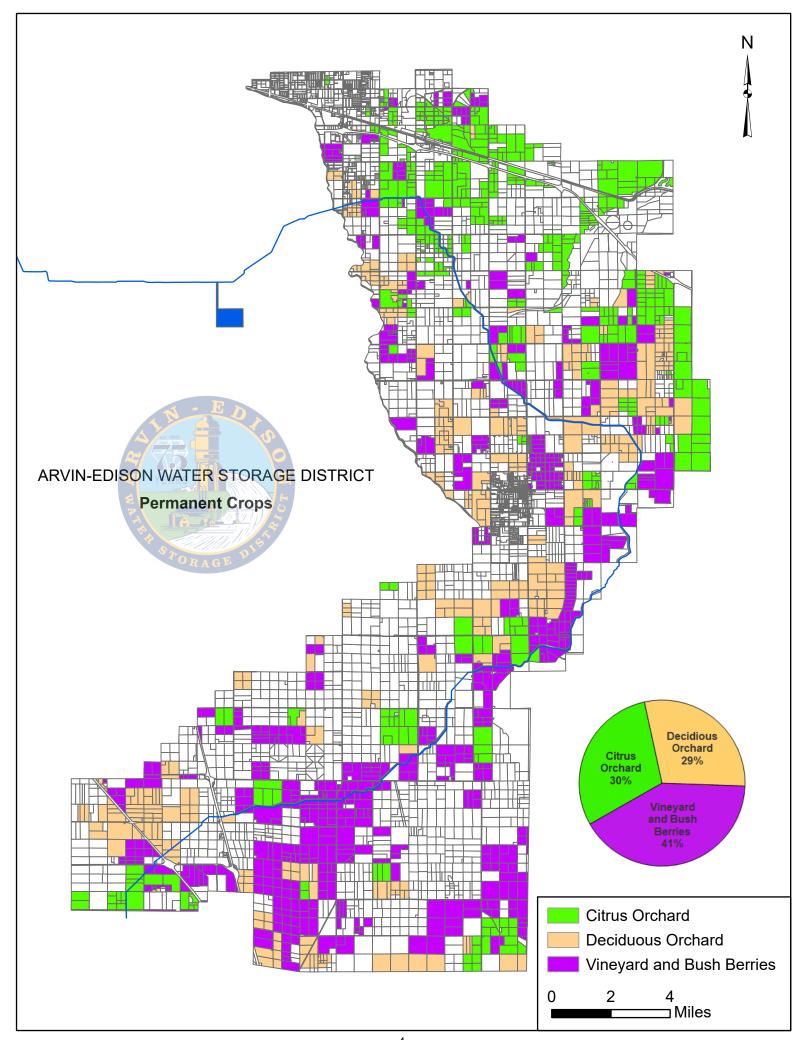
District boundaries encompass 131,660 acres of predominantly agricultural lands and contain two main service areas. One main area is the Surface Water Service Area (SWSA), which consists of 51,421 acres (39% of entire District) of lands contracted with the District to receive surface water and/or recovered groundwater from previously recharged ("banked") surface water. The other main area is the Groundwater Service Area (GWSA), which consists of 67,802 acres (52% of entire District) of irrigable lands served by privately owned farm wells. In 2023, total actual irrigated lands within the GWSA were 48,336 acres.

Within the GWSA there are 13,885 acres (11% of entire District) with Temporary Water Contracts and 760 acres (less that 1% of entire District) with In-Lieu Water Contracts. Both Temporary and In-Lieu Water Contracts allow the District to supply surface water to those groundwater service areas during wet seasons when the water is available. The remaining lands outside the SWSA and GWSA consist of District owned groundwater recharge basins (approximately 2,000 acres), urban areas, solar farms, and small acreage areas.

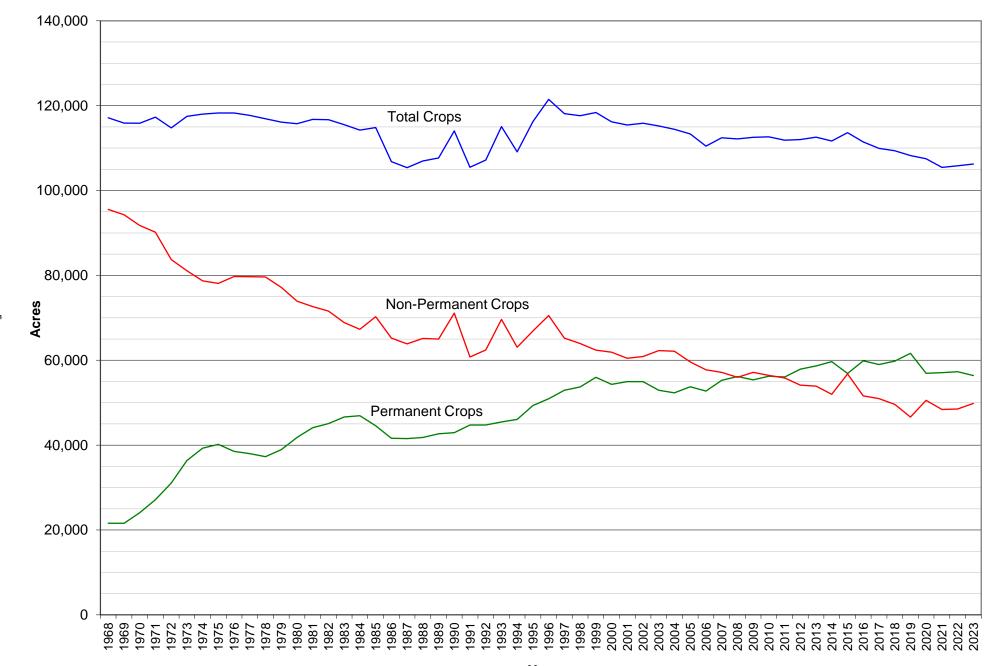
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### ARVIN-EDISON WATER STORAGE DISTRICT PERMANENT VS. NON-PERMANENT CROPPING PATTERNS



#### ARVIN-EDISON WATER STORAGE DISTRICT

#### 5 YEAR CROP SURVEY SUMMARY (2019 - 2023)

**VALUES IN ACRES** 

|                                |        | 2019   |         |        | 2020   |         |        | 2021   |         |        | 2022   |         |        | 2023   |         |
|--------------------------------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|
| Crop                           | Spring | Fall   | Total   |
| Alfalfa/Hay <sup>2</sup>       | 3,036  | 324    | 3,360   | 3,702  | 1,404  | 5,106   | 2,560  | 1,325  | 3,885   | 2,618  | 597    | 3,215   | 3,886  | 1,073  | 4,959   |
| Almonds                        | 10,540 | 308    | 10,849  | 10,945 | 484    | 11,429  | 11,301 | 39     | 11,339  | 11,138 | 224    | 11,362  | 10,318 | 147    | 10,465  |
| Apples                         | 13     | 0      | 13      | 13     | 0      | 13      | 13     | 0      | 13      | 13     | 0      | 13      | 0      | 0      | 0       |
| Apricots                       | 70     | 0      | 70      | 10     | 0      | 10      | 10     | 0      | 10      | 10     | 0      | 10      | 0      | 0      | 0       |
| Beans (Green)                  | 698    | 0      | 698     | 432    | 0      | 432     | 40     | 0      | 40      | 0      | 0      | 0       | 0      | 0      | 0       |
| Carrots                        | 4,024  | 9,107  | 13,132  | 4,073  | 8970   | 13,042  | 4,005  | 10704  | 14,709  | 4,028  | 8,940  | 12,968  | 3,485  | 8,628  | 12,113  |
| Citrus <sup>3</sup>            | 16,371 | 292    | 16,663  | 16,900 | 236    | 17,136  | 16,773 | 739    | 17,511  | 16,771 | 659    | 17,430  | 16,800 | 300    | 17,100  |
| Cole Crops                     | 321    | 182    | 503     | 79     | 789    | 867     | 102    | 0      | 102     | 0      | 0      | 0       | 123    | 0      | 123     |
| Cotton                         | 220    | 40     | 260     | 82     | 0      | 82      | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       |
| Corn (Field)                   | 0      | 0      | 0       | 106    | 0      | 106     | 53     | 0      | 53      | 36     | 165    | 201     | 13     | 20     | 32      |
| Irrigated Pasture <sup>4</sup> | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       |
| Lettuce                        | 175    | 347    | 522     | 382    | 19     | 401     | 169    | 853    | 1,022   | 179    | 288    | 467     | 122    | 114    | 237     |
| Melons                         | 678    | 18     | 697     | 419    | 0      | 419     | 563    | 0      | 563     | 352    | 41     | 393     | 438    | 0      | 438     |
| Misc. Deciduous <sup>5</sup>   | 2,382  | 0      | 2,382   | 2,548  | 63     | 2,611   | 2,606  | 57     | 2,662   | 2,889  | 0      | 2,889   | 2,694  | 513    | 3,207   |
| Misc. Truck Crops <sup>6</sup> | 4,083  | 2,135  | 6,218   | 3,464  | 1,468  | 4,932   | 2,803  | 1,455  | 4,258   | 4,130  | 1,669  | 5,798   | 3,419  | 2,003  | 5,422   |
| Misc. Field Crops <sup>7</sup> | 359    | 344    | 703     | 482    | 222    | 704     | 216    | 18     | 234     | 0      | 0      | 0       | 0      | 0      | 0       |
| Nursery                        | 86     | 0      | 86      | 60     | 0      | 60      | 60     | 0      | 60      | 42     | 0      | 42      | 43     | 26     | 69      |
| Onions                         | 3,386  | 473    | 3,859   | 3,576  | 626    | 4,202   | 2,786  | 669    | 3,455   | 3,472  | 985    | 4,457   | 4,265  | 97     | 4,363   |
| Peaches/Nectarines             | 800    | 0      | 800     | 796    | 0      | 796     | 739    | 19     | 758     | 771    | 0      | 771     | 951    | 0      | 951     |
| Pears                          | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       |
| Peppers                        | 1,475  | 0      | 1,475   | 1,298  | 0      | 1,298   | 1,489  | 0      | 1,489   | 1,096  | 0      | 1,096   | 1,183  | 0      | 1,183   |
| Pistachios                     | 1,436  | 0      | 1,436   | 1,482  | 362    | 1,844   | 1,716  | 137    | 1,853   | 1,845  | 273    | 2,118   | 2,382  | 0      | 2,382   |
| Plums                          | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       |
| Potatoes <sup>8</sup>          | 6,708  | 807    | 7,514   | 9,288  | 693    | 9,981   | 9,558  | 1,448  | 11,006  | 9,476  | 1,959  | 11,435  | 8,312  | 2,239  | 10,551  |
| Safflower                      | 50     | 0      | 50      | 481    | 0      | 481     | 79     | 0      | 79      | 0      | 0      | 0       | 0      | 0      | 0       |
| Small Grains <sup>9</sup>      | 2,096  | 295    | 2,391   | 1,501  | 0      | 1,501   | 920    | 194    | 1,114   | 953    | 295    | 1,248   | 1,167  | 0      | 1,167   |
| Sugarbeets <sup>10</sup>       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       |
| Tomatoes                       | 2,342  | 0      | 2,342   | 3,192  | 0      | 3,192   | 4,683  | 0      | 4,683   | 5,573  | 412    | 5,984   | 6,613  | 146    | 6,759   |
| Vineyard                       | 29,445 | 596    | 30,041  | 23,718 | 1,266  | 24,984  | 23,624 | 1,401  | 25,025  | 23,343 | 653    | 23,996  | 22,749 | 541    | 23,290  |
| Walnuts                        | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       | 0      | 0      | 0       |
| Total <sup>1</sup>             | 90,795 | 15,270 | 106,065 | 89,026 | 16,600 | 105,627 | 86,864 | 19,058 | 105,922 | 88,733 | 17,161 | 105,894 | 88,963 | 15,848 | 104,810 |

Permanent crops include acreage for young crops in total count.

<sup>&</sup>lt;sup>1</sup>Includes non-irrigated crops. Does not include Native classes.

<sup>&</sup>lt;sup>2</sup>Includes: Alfalfa, Misc. Grains and Hay, Misc. Grains and Hay, and Mixed Grains and Hay.

<sup>&</sup>lt;sup>3</sup>Includes: Grapefruit, Jojoba, Lemons, Misc. Citrus, Olives and Oranges.

<sup>&</sup>lt;sup>4</sup>Includes: Mixed Pasture and Turf Farms.

<sup>&</sup>lt;sup>5</sup>Includes: Cherries, Misc. Deciduous, and Mixed Deciduous.

<sup>&</sup>lt;sup>6</sup>Includes: Asian Leafy Greens, Asparagus, Broccoli, Blueberries, Bush Berries, Cabbage, Cauliflower, Misc. Truck Crops, Mixed Truck Crops, Spinach, Celery,

Strawberries, and Sweet Potatoes.

<sup>&</sup>lt;sup>7</sup>Includes: Grain Sorugum, Hemp, Misc. Field, Sunflowers, and Sudan.

<sup>&</sup>lt;sup>8</sup>Does not include Sweet Potatoes.

<sup>&</sup>lt;sup>9</sup>Includes: Barley, Oats, and Wheat.

<sup>&</sup>lt;sup>10</sup>Classified as Misc. Truck Crop.

#### ARVIN-EDISON WATER STORAGE DISTRICT

#### 10 YEAR SUMMARY OF SPRING LAND USE (2014 - 2023)

**Values in Acres** 

| LAND USE *(1) *(2) *(3)         | 2014    | 2015    | 2016    | 2017    | 2018    | 2019    | 2020    | 2021    | 2022    | 2023    |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Field Crops                     |         |         |         |         |         |         |         |         |         |         |
| Cotton                          | 409     | 0       | 0       | 40      | 0       | 220     | 82      | 0       | 0       | 0       |
| Milo & Field Corn               | 962     | 450     | 111     | 16      | 0       | 0       | 106     | 53      | 36      | 13      |
| Other Field Crops               | 240     | 381     | 290     | 106     | 431     | 122     | 964     | 237     | 0       | 0       |
| Hemp                            | -       | -       | -       | -       | -       | 287     | 0       | 58      | -       | -       |
| Truck Crops                     |         |         |         |         |         |         |         |         |         |         |
| Potatoes                        | 11,632  | 11,966  | 10,981  | 12,996  | 9,633   | 6,708   | 9,288   | 9,558   | 9,476   | 8,312   |
| Other Truck Crops               | 19,640  | 20,842  | 20,434  | 18,054  | 16,966  | 17,268  | 16,973  | 16,699  | 18,871  | 19,691  |
| Grain & Hay Crops               | 4,449   | 3,862   | 4,362   | 3863    | 5,613   | 3,838   | 4,533   | 2,807   | 2,890   | 4,308   |
| Pasture                         | 829     | 647     | 904     | 605     | 859     | 1,294   | 669     | 673     | 681     | 745     |
| Vineyards                       | 30,109  | 28,128  | 28,314  | 27,923  | 27,781  | 29,445  | 23,718  | 23,624  | 23,343  | 22,749  |
| Deciduous Orchard               | 13,029  | 14,455  | 14,978  | 14,064  | 14,759  | 15,241  | 15,793  | 16,384  | 16,665  | 16,345  |
| Citrus                          | 15,999  | 16,103  | 15,961  | 16,403  | 16,706  | 16,371  | 16,900  | 16,773  | 16,771  | 16,801  |
| Subtotal                        | 97,298  | 96,833  | 96,334  | 94,071  | 92,748  | 90,795  | 89,026  | 86,864  | 88,733  | 88,963  |
|                                 |         |         |         |         |         |         |         |         |         |         |
| Fallow *(4)                     | 13,909  | 16,308  | 15,007  | 15,754  | 16,115  | 17,464  | 18,455  | 18,301  | 16,569  | 16,765  |
| Total Irrigated Acres           | 111,207 | 113,141 | 111,341 | 109,824 | 108,863 | 108,259 | 107,481 | 105,165 | 105,302 | 105,729 |
| Semi-Incidental To Agricultural | 381     | 256     | 326     | 560     | 726     | 743     | 796     | 826     | 830     | 836     |
| Urban and Vacant                | 10,313  | 9,377   | 10,401  | 10,515  | 10,562  | 10,219  | 10,620  | 10,649  | 10,487  | 10,501  |
| Non-Irrigated Crops             | 449     | 383     | 121     | 124     | 0       | 0       | 0       | 0       | 0,407   | 10,501  |
| Abandoned Orchards/Vineyards    | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Idle Land *(5)                  | 1,112   | 1,832   | 1,530   | 2,211   | 3,174   | 4,283   | 4,401   | 6,604   | 6,127   | 6,115   |
| Native Classes                  | 8,198   | 6,671   | 7,941   | 8,426   | 8,335   | 8,155   | 8,362   | 8,416   | 8,914   | 8,480   |
| Total Non-Irrigated Acres       | 20,453  | 18,519  | 20,319  | 21,836  | 22,797  | 23,401  | 24,179  | 26,495  | 26,358  | 25,931  |
| Total District Acreage          | 131,660 | 131,660 | 131,660 | 131,660 | 131,660 | 131,660 | 131,660 | 131,660 | 131,660 | 131,660 |

<sup>\*(1)</sup> Standard Land Use Legend as prepared by DWR, for 2022-2023 the December 2022 Legend was used. 2016 Legend used for 2016-2021

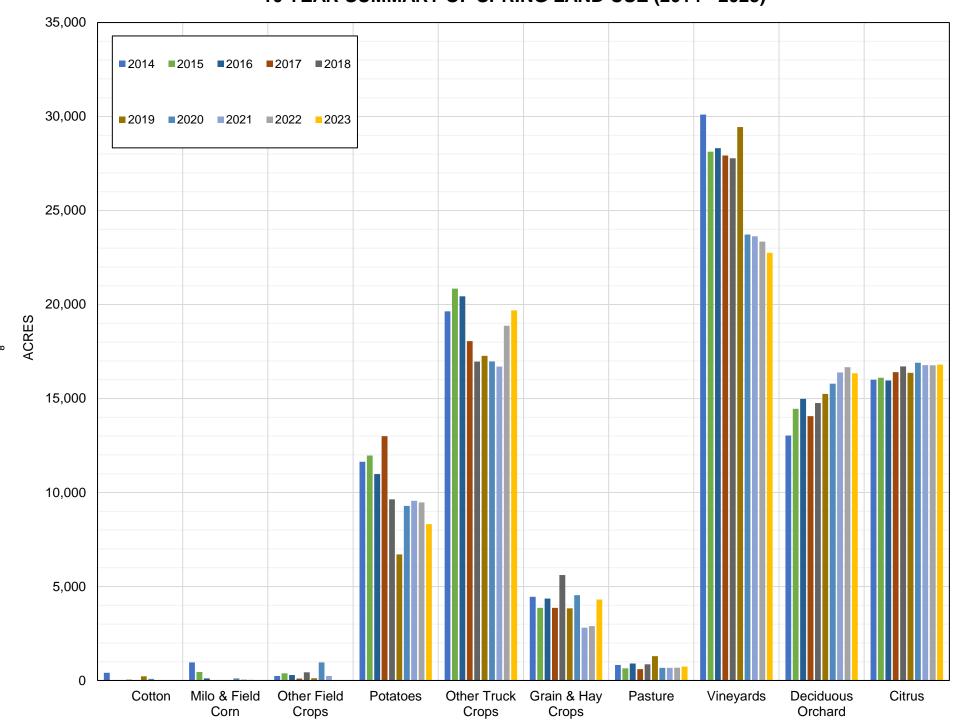
<sup>\*(2)</sup> Land Use is surveyed during the Spring of each year

<sup>\*(3)</sup> Land Use survey completed in August

<sup>\*(4)</sup> Land is tilled at time of survey but current crop not identified

<sup>\*(5)</sup> Land cropped within the past three years but not tilled at time of survey

## ARVIN-EDISON WATER STORAGE DISTRICT 10 YEAR SUMMARY OF SPRING LAND USE (2014 - 2023)



#### ARVIN-EDISON WATER STORAGE DISTRICT

#### 2023 LAND USE TABLES WITH CROPS AND ACRES

VALUES IN ACRES

| LEGEND   | 2023 Spring Land         | Use with | Crops  |         |
|--|--------------------------|----------|--------|---------|
| Vineyard         7,329         9,882         17,211           Fallow         6,249         10,517         16,765           Tomatoes         3,056         3,557         6,613           Almonds         2,711         5,100         7,811           Vineyard-Young         2,658         2,880         5,538           Potatoes         2,566         5,805         8,312           Idle         1,885         4,230         6,115           Orions         1,629         2,636         4,265           Carrots         1,635         1,850         3,485           Almonds-Young         1,177         1,330         2,507           Cherries         1,076         612         1,689           Urban Industrial - Solar         886         704         1,590           Cherries-Young         848         121         969           Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520   |                          |          |        | Total   |
| Fallow         6,249         10,517         16,765           Tomatoes         3,056         3,557         6,613           Almonds         2,711         5,100         7,811           Vineyard-Young         2,658         2,800         5,538           Potatoes         2,506         5,805         8,312           Idle         1,885         4,230         6,115           Oranges-Young         1,757         931         2,688           Onions         1,629         2,636         4,265           Carrots         1,635         1,850         3,485           Almonds-Young         1,177         1,330         2,507           Cherries         1,076         612         1,689           Urban Industrial - Solar         886         704         1,590           Cherries-Young         848         121         969           Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520   | Oranges                  | 8,564    | 3,505  | 12,069  |
| Tomatoes   |                          |          | ,      |         |
| Almonds  |                          |          |        |         |
| Vineyard-Young         2,658         2,880         5,538           Potatoes         2,506         5,805         8,312           Idle         1,885         4,230         6,115           Oranges-Young         1,757         931         2,688           Onions         1,629         2,636         4,265           Carrots         1,635         1,850         3,485           Almonds-Young         1,177         1,330         2,507           Cherries         1,076         612         1,689           Urban Industrial - Solar         886         704         1,590           Cherries-Young         848         121         969           Perpepers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Subert Potatoes         529         269         798           Pistachios-Young         518         717         1,235           Naticy Grass/Nectarines         319  |                          |          | - ,    |         |
| Potatoes   |                          |          |        | , -     |
| Idle   |                          |          |        |         |
| Oranges-Young         1,757         931         2,688           Onions         1,629         2,636         4,265           Carrots         1,635         1,850         3,485           Almonds-Young         1,177         1,330         2,507           Cherries         1,076         612         1,689           Urban Industrial - Solar         886         704         1,590           Cherries-Young         848         121         969           Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         499         3,919         4,418           Peaches/Nectarines-Young         214         189         403           Melons         175  |                          |          |        |         |
| Onions         1,629         2,636         4,265           Carrots         1,635         1,850         3,485           Almonds-Young         1,177         1,330         2,507           Cherries         1,076         612         1,689           Urban Industrial - Solar         886         704         1,590           Cherries-Young         848         121         969           Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331 <td></td> <td></td> <td></td> <td></td>                    |                          |          |        |         |
| Carrots         1,635         1,850         3,485           Almonds-Young         1,177         1,330         2,507           Cherries         1,076         612         1,680           Urban Industrial - Solar         886         704         1,590           Cherries-Young         848         121         969           Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,417           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Sweet Potatoes         529         269         798           Pistachios-Young         518         717         1,235           Sweet Potatoes         499         3,919         4,418           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331<   |                          |          |        |         |
| Almonds-Young         1,177         1,330         2,507           Cherries         1,076         612         1,689           Urban Industrial - Solar         886         704         1,590           Cherries-Young         848         121         969           Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,171           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167   |                          |          |        | ,       |
| Urban Industrial - Solar         886         704         1,590           Cherries-Young         848         121         969           Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed Truck Crops         146   | Almonds-Young            |          | _      | _       |
| Cherries-Young         848         121         969           Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939 <td< td=""><td>Cherries</td><td>1,076</td><td>612</td><td>1,689</td></td<> | Cherries                 | 1,076    | 612    | 1,689   |
| Peppers         836         347         1,183           Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         1111         933   | Urban Industrial - Solar |          |        | _       |
| Citrus-Misc.         760         954         1,715           Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed Truck Crops         146         658         805           Mixed Truck Crops         146         658         805           Wheat         111         939         1,050           Water Surface         89         2,694 <td></td> <td></td> <td></td> <td></td>                      |                          |          |        |         |
| Urban Vacant-Roads         757         3,005         3,762           Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         <  |                          |          |        |         |
| Pistachios-Young         573         574         1,147           Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         166           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Water Surface         89         2,694         2,783           Urban Industrial         80         702  |                          |          |        |         |
| Grains & Hay         531         1,520         2,051           Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed Truck Crops         146         658         805           Mixed Truck Crops         144         658         805           Myheat         111         939         1,050           Water Surface         89         2,694  |                          |          | _      | _       |
| Sweet Potatoes         529         269         798           Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Industrial         80         702         782           Urban Industrial         26         545         572  |                          |          |        |         |
| Pistachios         518         717         1,235           Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Industrial         80         702         782           Urban Industrial         26         545         572           Feedlots         26         330         357 <td></td> <td></td> <td></td> <td></td>   |                          |          |        |         |
| Native Grasses         499         3,919         4,418           Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495<  |                          |          |        |         |
| Peaches/Nectarines         317         230         548           Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39 </td <td></td> <td></td> <td></td> <td></td>                                   |                          |          |        |         |
| Peaches/Nectarines-Young         214         189         403           Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Lemons         86         0         86           Urban Industrial         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39   |                          |          | - /    | ,       |
| Melons         199         239         438           Blueberries         175         331         506           Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Industrial         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572  |                          |          |        |         |
| Citrus-MiscYoung         167         1         167           Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86         0         86           Urban Industrial         80         702         782         782           Urban Industrial         60         3,018         3,078         3,078         3,078         8         6         0         86         0         86         0         86         0         86         Urban Industrial         60         3,018         3,078         8         1,072         782         1,220         1,269         1,269         1,220         1,269         1,269         1,220         1,269         1,269         1,269         1,269         1,269         1,269         1,269         1,220         1,269         1,269         1,220         1,269         1,                      | Melons                   | 199      | 239    |         |
| Truck Crops-Misc.         159         647         806           Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Industrial         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         545         572           Feedlots         26         545         572           Feedlots         23         45         45           Urban I  | Blueberries              | 175      | 331    | 506     |
| Mixed Truck Crops         146         658         805           Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Industrial         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         545         572           Feedlots         26         545         572           Feedlots         26         545         572           Feedlots         26         545         572           Asparagus  |                          |          | 1      | 167     |
| Mixed grain and hay         134         957         1,091           Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy  |                          |          |        |         |
| Farmsteads         123         354         476           Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial<  | Mixed Truck Crops        |          |        |         |
| Wheat         111         939         1,050           Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         <   |                          |          |        |         |
| Water Surface         89         2,694         2,783           Lemons         86         0         86           Urban Industrial         80         702         782           Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Nursery Crops         14         29         43           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives  |                          |          |        |         |
| Lemons         86         0         86           Urban Industrial         80         702         782           Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39         0         39           Mixed Decidous         28         0         29         29         Urban Industrial         26         545         572         Feedlots         26         330         357           Feedlots         26         330         357         Urban Industrial         23         45         68           Urban Industrial         15         29         45         A5         A52         45         A52         Feedlots         15         0         15         Nursery Crops         14         29         43         44         44         49         44         44         49         43         A1         48         95         48         0         8         8         0         8         8 <t< td=""><td></td><td></td><td></td><td>_</td></t<> |                          |          |        | _       |
| Urban Industrial         80         702         782           Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial   |                          |          | -      | -       |
| Urban Residential         60         3,018         3,078           Broccoli         57         0         57           Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1 </td <td></td> <td></td> <td></td> <td></td>  |                          |          |        |         |
| Native Grass/Shrubs         49         1,220         1,269           Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         4         14         17           Spinach         1  |                          |          |        |         |
| Urban Commercial         49         446         495           Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1 <td< td=""><td></td><td>57</td><td>0</td><td>57</td></td<>   |                          | 57       | 0      | 57      |
| Cauliflower         39         0         39           Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         19         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         122         123           Urban Commercial         1  | Native Grass/Shrubs      | 49       | 1,220  | 1,269   |
| Mixed Decidous         28         0         29           Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1 </td <td></td> <td>49</td> <td>446</td> <td>495</td>  |                          | 49       | 446    | 495     |
| Urban Industrial         26         545         572           Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa   |                          |          |        |         |
| Feedlots         26         330         357           Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         144         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122   |                          |          | _      |         |
| Urban Industrial         23         45         68           Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         144         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116  |                          | _        |        |         |
| Urban Industrial         15         29         45           Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         144         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13   |                          |          |        |         |
| Asparagus         15         0         15           Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11   |                          |          | _      |         |
| Nursery Crops         14         29         43           Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9  | A                        |          |        |         |
| Asian Leafy Greens         11         84         95           Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8  |                          |          |        |         |
| Urban Industrial         14         13         27           Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8  |                          |          |        |         |
| Bush Berries         8         0         8           Olives         5         70         76           Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8  |                          |          |        |         |
| Strawberries         4         0         4           Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8  | Bush Berries             | 8        | 0      |         |
| Urban Industrial         4         14         17           Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8   | Olives                   | 5        | 70     |         |
| Spinach         1         136         138           Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8  |                          |          |        |         |
| Urban Industrial         1         9         10           Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8  |                          |          |        |         |
| Cole Crops (mixed)         1         122         123           Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8  |                          |          |        |         |
| Urban Commercial         1         44         45           Landowner Well         0         3         3           Alfalfa         0         745         745           Cabbage         0         149         149           Lettuce         0         122         122           Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8   |                          |          |        |         |
| Landowner Well     0     3     3       Alfalfa     0     745     745       Cabbage     0     149     149       Lettuce     0     122     122       Barley     0     116     116       Corn     0     13     13       Urban Commercial     0     11     11       Native Barren     0     9     9       Deciduous-Misc.     0     8     8  |                          |          |        |         |
| Alfalfa     0     745     745       Cabbage     0     149     149       Lettuce     0     122     122       Barley     0     116     116       Corn     0     13     13       Urban Commercial     0     11     11       Native Barren     0     9     9       Deciduous-Misc.     0     8     8   |                          |          |        |         |
| Cabbage     0     149     149       Lettuce     0     122     122       Barley     0     116     116       Corn     0     13     13       Urban Commercial     0     11     11       Native Barren     0     9     9       Deciduous-Misc.     0     8     8   |                          |          |        |         |
| Lettuce     0     122     122       Barley     0     116     116       Corn     0     13     13       Urban Commercial     0     11     11       Native Barren     0     9     9       Deciduous-Misc.     0     8     8   |                          |          |        |         |
| Barley         0         116         116           Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8   |                          |          |        |         |
| Corn         0         13         13           Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8  |                          |          |        |         |
| Urban Commercial         0         11         11           Native Barren         0         9         9           Deciduous-Misc.         0         8         8   |                          |          |        |         |
| Deciduous-Misc. 0 8 8  |                          |          |        |         |
|  | Native Barren            | 0        | 9      | 9       |
| Total 51,421 80,239 131,660  |                          |          |        |         |
|  | Total                    | 51,421   | 80,239 | 131,660 |

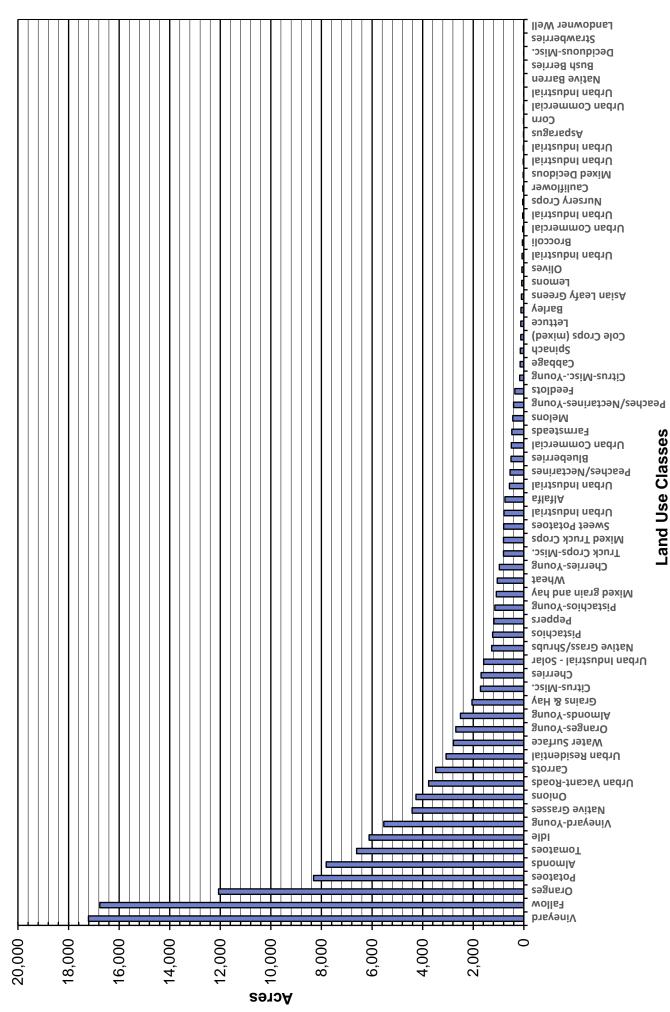
| Fall Crops**        |        |  |  |  |  |
|---------------------|--------|--|--|--|--|
| Legend              | Total  |  |  |  |  |
| Carrots             | 8,628  |  |  |  |  |
| Potatoes            | 2,239  |  |  |  |  |
| Mixed Truck Crops   | 1,000  |  |  |  |  |
| Grains & Hay        | 895    |  |  |  |  |
| Cherries-Young      | 513    |  |  |  |  |
| Truck Crops-Misc.   | 436    |  |  |  |  |
| Vineyard            | 424    |  |  |  |  |
| Sweet Potatoes      | 329    |  |  |  |  |
| Oranges-Young       | 300    |  |  |  |  |
| Mixed grain and hay | 178    |  |  |  |  |
| Almonds-Young       | 147    |  |  |  |  |
| Tomatoes            | 146    |  |  |  |  |
| Vineyard-Young      | 117    |  |  |  |  |
| Lettuce             | 114    |  |  |  |  |
| Onions              | 97     |  |  |  |  |
| Asian Leafy Greens  | 81     |  |  |  |  |
| Celery              | 79     |  |  |  |  |
| Cabbage             | 78     |  |  |  |  |
| Nursery Crops       | 26     |  |  |  |  |
| Corn                | 20     |  |  |  |  |
| Total               | 15,848 |  |  |  |  |

SWSA - Surface Water Service Area GWSA - Groundwater Service Area

To see total descending order for District, proceed to the graph on page 10.

<sup>\*</sup>Crop is sorted by descending SWSA \*\*Crops grown in the Fall in addition to Spring Crops

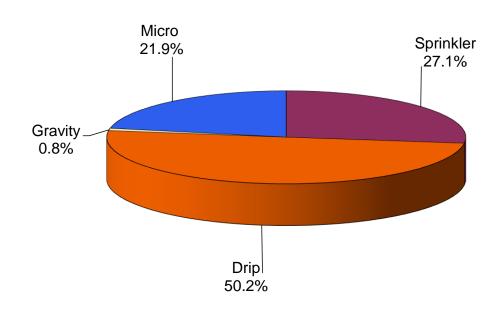
# ARVIN-EDISON WATER STORAGE DISTRICT SPRING 2023 LAND USE SURVEY

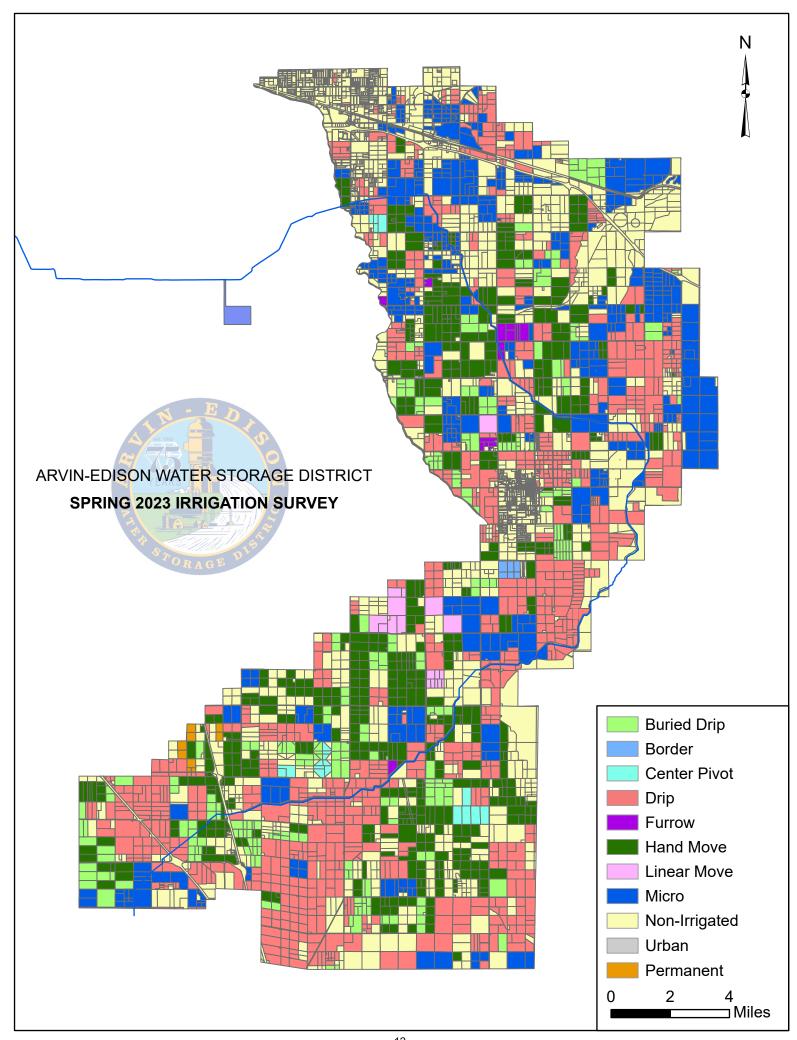


## ARVIN-EDISON WATER STORAGE DISTRICT SPRING 2023 IRRIGATION SUMMARY

| Method        | Acres         | %           |
|---------------|---------------|-------------|
| Sprinkler     | 24,087        | 27.1        |
| Drip          | 44,648        | 50.2        |
| Gravity       | 729           | 0.8         |
| Micro         | <u>19,500</u> | <u>21.9</u> |
| Subtotal      | 88,963        | 100.0       |
| Non-Irrigated | <u>42,697</u> |             |
| Total         | 131,660       |             |

#### **2023 IRRIGATION SYSTEMS PERCENTAGE**





## State of California The Resources Agency DEPARTMENT OF WATER RESOURCES



# MODIFIED STANDARD LAND USE LEGEND

Land and Water Use Section
Water Use and Efficiency Branch
Division of Statewide Integrated Water Management

December 2022

#### STANDARD LAND USE LEGEND

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#### I. GENERAL

The minimum breakdown of land use is according to the class symbol. More detail is obtained by adding the subclass number to the class symbol, or by use of special condition symbols. Any or all of the following information can be delineated.

- 1. Types of agricultural, urban, or native land use
- 2. Specific crops
- 3. Multiple land use
- 4. Sources of water supply
- 5. Type of irrigation system

This legend is for land use surveys conducted in 2016 and after.

#### II. AGRICULTURAL CLASSES

The vast majority of crops grown in California are irrigated. Unless preceded with an "n" if it is non-irrigated, all agricultural classes are considered irrigated. (This statement is for the agricultural classes and does not apply to the other non-agricultural classes of semi agricultural, urban, or native.)

#### G - GRAIN AND HAY CROPS

- 1. Barley
- 2. Wheat
- 3. Oats

#### R - RICE

1. Rice

#### F - FIELD CROPS

- 1. Cotton
- 2. Safflower
- 3. Flax
- 4. Hops
- 5. Sugar beets
- 6. Corn (field & sweet)
- 7. Grain sorghum
- 8. Sudan

- 6. Miscellaneous grain and hay [barley, cover crops (soil building), forage mixes, mixed grain and hay, oats, cereal rye, triticale, vetch, grouped for remote sensing]
- 7. Mixed grain and hay
- 2. Wild rice
- 9. Castor beans
- 10. Beans (dry), [blackeye beans, caster beans, common beans (kidney, pinto, black, cranberry), garbanzo beans, lima beans, grouped for remote sensing]
- Miscellaneous field [flax, hemp, hops, horse radish, millet, mint, quinoa, sugar cane, mixed field crops, grouped for remote sensing]
- 12. Sunflowers
- 13. Hybrid sorghum/Sudan
- 14. Millet
- 15. Sugar cane
- [Corn (field and sweet), 16. hybrid sorghum/Sudan grass, grouped for remote sensing]

#### P - PASTURE

5.

Miscellaneous grasses [bermudagrass, 1. Alfalfa & alfalfa mixtures 6. forage grass, Klein grass, ryegrass, teff, turf, grouped for remote sensing] Turf farms 2. Clover 7. Mixed pasture [clover, mixed Bermuda grass 3. 8. pasture, including high water table native pasture, native pasture, grouped for remote sensing] Rye grass 4. Native pasture 9. Induced high water table Klein grass

10.

#### T - TRUCK, NURSERY AND BERRY CROPS

1. Artichokes

16. Flowers, nursery & Christmas tree farms. [Cannabis, Christmas trees, cut flowers and foliage, lavender, Mexican fan palm, ornamental nursery, crop transplant nursery, tree nursery, grouped for remote sensing]

- 2. Asparagus
- 3. Beans (green)
- 4. Cole crops (mixture of cole crops or cole crops not specifically listed in the legend). [Broccoli, Brussel sprouts, cabbage, cauliflower, kale, mixed cole crops, grouped for remote sensing]
- 17. Mixed truck (four or more)
- 18. Miscellaneous truck (a truck crop not specifically listed in the legend).

  [Artichokes, Asian leafy vegetables, asparagus, basil, bok choy, green beans, herbs, beets (fresh market), celery, chard, cilantro, dill, eggplant, fennel, leeks, lemongrass, okra, parsley, parsnips, peas, radishes, thyme, tomatillos, turnips, mixed truck crops, grouped for remote sensing]
- 19. Bush berries [blueberries, blackberries, raspberries, and other bushberries, grouped for remote sensing]

- 6. Carrots
- 7. Celery
- 8. Lettuce (all types)
- 9. Melons, squash, and cucumbers (all types).
  [Cantaloupe, cucumber, gourds, honeydew, mixed cucurbits, melons, pumpkins, spaghetti squash, squash, watermelon, yellow squash, zucchini, grouped for remote sensing]
- 20. Strawberries
- 21. Peppers (chili, bell, etc.)
- 22. Broccoli
- 23. Cabbage

- 10. Onions and garlic
- 11. Peas
- 12. Potatoes

- 24. Cauliflower
- 25. Brussels sprouts
- Tomatoes (market)

|        | 13.<br>14.<br>15. | Sweet potatoes Spinach Tomatoes (processing)   | 27.<br>28.<br>29. | Greenhouse<br>Blueberries<br>Asian leafy vegetables  |
|--------|-------------------|--|-------------------|--|
|        |                   |  | 30.               | [Lettuce/Leafy Greens for remote sensing]  |
|        |                   |  | 31.               | [Potato and Sweet Potato, grouped for remote sensing]  |
|        |                   |  | 32.               | [Tomato (processing and market), grouped for remote sensing]   |
| D - DE | ECIDU             | OUS FRUITS AND NUTS  |                   |  |
|        | 1.                | Apples   | 10.               | Miscellaneous deciduous (a type of deciduous orchard not specifically listed in the legend). [Chestnuts, figs, hazelnuts, jujube, persimmons, mixed deciduous, grouped for remote sensing] |
|        | 2.                | Apricots   | 11.               | Mixed deciduous  |
|        | 3.                | Cherries   | 12.               | Almonds  |
|        | ~                 | D 1 1 1  | 13.               | Walnuts  |
|        | 5.<br>6.          | Peaches and nectarines   | 14.               | Pistachios Paragraphica  |
|        | 7.                | Pears<br>Plums   | 15.<br>16.        | Pomegranate [Plums, Prunes and Apricots, grouped for remote sensing]   |
|        | 8.                | Prunes   | 17.               | Pecans   |
|        | 9.                | Figs   |                   |  |
| C - CI | ΓRUS              | AND SUBTROPICAL  |                   |  |
|        |                   | Citrus [Clementine, grapefruit, lemons, limes, oranges (all types), mixed citrus, pomelos, tangelos, tangerines, grouped for remote sensing] | 7.                | Miscellaneous [Cherimoya, guava, jojoba, mango, Mexican hawthorn, nopal, mixed, subtropical fruits, grouped for remote sensing]  |
|        | 1.                | Grapefruit   | 8.                | Kiwis  |
|        | 2.                | Lemons   | 9.                | Jojoba   |
|        | 3.                | Oranges  | 10.               | Eucalyptus   |
|        | 4.                | Dates  | 11.               | Mixed subtropical fruits   |
|        | 5.                | Avocados   |                   |  |
|        | 6.                | Olives (oil and table olives,  |                   |  |
|        |                   | grouped for remote sensing)  |                   |  |

#### V – VINEYARDS

Grapes [Raisin grapes, table grapes, 3. Raisin grapes wine grapes, grouped for remote sensing]

- 1. Table grapes
- 2. Wine grapes

#### I – IDLE

(Precede with "n" in non-irrigated area, and <u>must</u> include subclass)

- 1. Land not cropped the current or previous crop season, but cropped within the past three years.
- 2. New lands being prepared for crop production.
- 4. Long term idle, land that has been fallow or idle for four or more years.

#### X – UNCLASSIFIED FALLOW

Not cropped, or unclassified at the time of remote sensing analysis. Idle status not determined.

YP – Young perennial fruits and nuts [includes young orchards and vineyards, grouped for remote sensing]

#### III. SEMIAGRICULTURAL CLASS

(Do not precede with "n")

#### S - SEMIAGRICULTURAL & INCIDENTAL TO AGRICULTURE

(Must include subclass)

- 1. Farmsteads (includes a farm residence)
- 2. Livestock feed lot operations
- 3. Dairies

- 4. Poultry farms
- 5. Farmsteads (without a farm residence)
- 6. Miscellaneous semi-ag (small roads, ditches, non-planted areas of cropped fields)

#### IV.URBAN CLASSES

(Do not precede with "n")

#### U - URBAN

Residential, commercial, and industrial (may be used alone when further breakdown is not required)

#### **UR - RESIDENTIAL**

Single and multiple family units, including trailer courts (may be used alone when further breakdown is not required)

- 1. Single family dwellings with lot sizes greater than 1 acre up to 5 acres (ranchettes, etc.)
- 2. Single family dwellings with a density of 1 unit/acre up to 8+ units/acre.
- 3. Multiple family (apartments, condos, townhouses, barracks, bungalows, duplexes, etc.)
- 4. Trailer courts

WATER USE FACTOR (% of total area irrigated - will be the second digit of UR Subclass when water factor is used)

- 1. 0% to 25% area irrigated
- 2. 26% to 50% area irrigated
- 3. 51% to 75% area irrigated
- 4. 76% or greater

<u>Example:</u> UR32 indicates multiple family with water use factor of 26% to 50% of area irrigated.

#### **UC - COMMERCIAL**

(May be used alone when further breakdown is not required)

- 1. Offices, retailers, etc.
- 2. Hotels
- 3. Motels
- 4. Recreation vehicle parking, camp sites
- 5. Institutions (hospitals, prisons, reformatories, asylums, etc., having a reasonably constant 24-hour resident population)
- 6. Schools (yards to be mapped separately if large enough)
- 7. Municipal auditoriums, theaters, churches, buildings and stands associated with race tracks, football stadiums, baseball parks, rodeo arenas, amusement parks, animal boarding and/or exercise facilities, etc.
- 8. Miscellaneous high water use (to be used to indicate a high water use condition not covered by the above categories.)

#### **UI - INDUSTRIAL**

(May be used alone when further breakdown is not required)

- 1. Manufacturing, assembling, and general processing
- 2. Extractive industries (oil fields, rock quarries, gravel pits, rock and gravel processing plants, etc.)
- 3. Storage and distribution (warehouses, substations, railroad marshalling yards, tank farms, etc.)
- 6. Sawmills
- 7. Oil refineries
- 8. Paper mills
- 9. Meat packing plants
- 10. Steel and aluminum mills
- 11. Fruit and vegetable canneries and general food processing
- 12. Miscellaneous high water use (to be used to indicate a high water use condition not covered by other categories)
- 13. Sewage treatment plant including ponds.
- 14. Waste accumulation sites (public dumps, sewage sludge sites, landfill and hazardous waste sites, etc.)
- 15. Wind farms, solar collector farms, etc.

#### UL - URBAN LANDSCAPE

(May be used alone when further breakdown is not required)

- 1. Lawn area irrigated
- 2. Golf course irrigated
- 3. Ornamental landscape (excluding lawns) irrigated
- 4. Cemeteries irrigated
- 5. Cemeteries not irrigated

#### **UV - VACANT**

(May be used alone when further breakdown is not required)

- 1. <u>Unpaved areas</u> (vacant lots, graveled surfaces, play yards, developable open lands within urban areas, etc.)
- 3. Railroad right of way
- 4. <u>Paved areas</u> (parking lots, paved roads, oiled surfaces, flood control channels, tennis court areas, auto sales lots, etc.)
- 6. Airport runways
- 7. Land in urban area that is not developable

#### V. NATIVE CLASSES

(Do not precede with "n")

#### NC - NATIVE CLASSES UNSEGREGATED

(May be used alone when further breakdown is not required)

#### **NV - NATIVE VEGETATION**

(May be used alone when further breakdown is not required)

1. Grass land 5. Brush and timber

2. Light brush 6. Forest

3. Medium brush 7. Oak grassland

4. Heavy brush

#### NR - RIPARIAN VEGETATION

(May be used alone when further breakdown is not required)

- 1. Marsh lands, tules and sedges
- 2. Natural high water table meadow
- 3. Trees, shrubs or other larger stream side or watercourse vegetation
- 4. Seasonal duck marsh, dry or only partially wet during summer
- 5. Permanent duck marsh, flooded during summer

#### NW - WATER SURFACE

(May be used alone when further breakdown is not required)

- 1. River or stream (natural fresh water channels)
- 2. Water channel (all sizes ditches and canals delivering water for irrigation and urban use e.g., State Water Project, CVP, water district canals, etc.)
- 3. Water channel (all sizes ditches and canals for removing on-farm drainage, water surface runoff and subsurface drainage e.g., Colusa Basin Drainage Canal, drainage ditches in Imperial ID)
- 4. Freshwater lake, reservoir, or pond (all sizes, includes ponds for stock, recreation, groundwater recharge, managed wetlands, on-farm storage, etc.)
- 5. Brackish and saline water (includes areas in estuaries, inland water bodies, the ocean, etc.)
- 6. Wastewater pond (dairy, sewage, cannery, winery, etc)
- 7. Paved water conveyance channels within urban areas (mainly for flood control)

#### NB - BARREN AND WASTELAND

(May be used alone when further breakdown is not required)

Dry stream channels
 Mine Tailing
 Salt flats
 Sand dunes

3. Barren land

#### VI. UNCLASSIFIED

#### NS - NOT SURVEYED

Area within the investigation area that was not mapped.

#### E - ENTRY DENIED

Area within the investigation area that was not mapped because entry into the area was denied.

#### Z - OUTSIDE

Area outside of the study area.

#### VII. SPECIAL CONDITIONS, IRRIGATION TYPE, AND WATER SOURCE

When any of the following special conditions, type of irrigation, or source of water is displayed on a map as a label, a (-) should precede them. When more than one is used they should be displayed in the order stated above.

#### 1. SPECIAL CONDITIONS

(only one can be used per parcel)

#### A - ABANDONED ORCHARDS AND VINEYARDS

Trees or vines must be in such a condition that renewal of cultural practices would restore economic production. Indicated by "A" following crop symbol.

Example: D1-A indicates an apple orchard previously irrigated but now abandoned.

#### **B-BURNED OVER AREAS**

Indicated by "B". The type and density of natural cover destroyed by fire is obtained by examination of aerial photo.

Example: NV7-B indicates oak grassland recently burned over.

#### C – GREEN CHOPPED

Grain or field crops harvested early for livestock feed

#### D - HIGH DENSITY ORCHARDS

Indicates the density of trees is higher than normally expected (used with D and C classes).

#### E – ECOSYSTEM RESTORATION

Native vegetation or riparian areas that have undergone restoration (used with NV and NR classes).

#### F - FALLOW LANDS

Land not cropped during the current crop season, but cropped during the previous crop season.

- (1) If no crop residue is apparent or identifiable then the "F" symbol will follow the agricultural class symbol for the crop most representative of those grown in the area.

  Example: T-F indicates fallow land within a truck crop area (with facilities for irrigation).
- (2) If the crop residue is apparent and identifiable but is not from the current crop season covered by the survey then the field is considered fallow and mapped as the class of the crop residue.
  - Example: Surveyor found an old sugar beet residue not from current season. Land would be mapped F-F.
- (3) If the crop residue is identifiable as that of a crop which was grown during the survey period, then map the field as though crop existed.
  - Example: Surveyor found carrot residue from current growing season. Land would be mapped T6.

#### G-COVER CROP

Indicates where grain, field, or pasture type crops have been planted for soil stabilization or for cover crops grown between rows of deciduous and subtropical trees and vines.

#### H – HARVESTED CROP

Indicates the identified crop was harvested at the time of the survey (used with truck, field, and grain crops).

#### K-FREEWAYS

The area within the freeway right of way.

Examples: UV-K indicates urban vacant, unsegregated, with a freeway special condition

(all areas within the freeway right of way).

UV4-K indicates the urban vacant paved areas with a freeway special condition

(the paved portion within the freeway right of way.)

UL3-K indicates irrigated urban landscape with a freeway special condition

(irrigated landscape portion within the freeway right of way).

#### P – FALLOWING PROGRAM LAND

Agricultural land fallowed or idled due to participation in a water conservation, water transfer, or related program requiring fallowing.

#### R - RECREATIONAL

To be used with urban residential, commercial, and vacant (R.V. parks and camp sites) within primarily a seasonal recreational area.

#### S - SEED CROP

Indicates any crop grown for seed.

<u>Example:</u> P1-S indicates irrigated alfalfa seed crop.

#### T - TILLED LANDS

Land prepared for immediate planting, or just newly planted, including the appearance of seed lines or unidentifiable tiny seedlings.

Example: T-T indicates tilled land (either prepared for planting or just planted) in a

predominately truck crop area.

#### U – INTERPRETED LANDUSE

Indicates that the land use was determined using other means than visual field verification.

#### W – LAND USE DATA AQUIRED FROM THIRD PARTY

#### X - PARTIALLY IRRIGATED CROPS

Crops irrigated for only part of their normal irrigation season.

<u>Example:</u> P3-X indicates partially irrigated mixed pasture.

#### Y - YOUNG CROPS

Indicates the identified crop is at early stages of growth (used with non-bearing orchards and vineyards, and truck, field, and grain crops).

Example: C3-Y indicates young non-bearing irrigated oranges.

#### **Z-RECLAMATION**

Land being leached for the removal of harmful salts. This symbol will be used following either the "Idle" symbol or symbols of crops grown as a step in the reclamation process.

<u>Example:</u> I2-Z indicates new lands being leached in preparation for crop production.

#### 2. TYPE OF IRRIGATION SYSTEM

- C Center Pivot Sprinkler
- L Linear Move Sprinkler
- R Side Roll Sprinkler
- H Hand Move Sprinkler
- P Permanent Sprinkler
- T Solid Set Sprinkler
- F Furrow Irrigation
- B Border Strip Irrigation
- N Basin Irrigation
- W Wild Flooding
- S Subirrigation
- D Surface Drip Irrigation
- A Buried Drip Irrigation
- M Micro Sprinkler
- E LEPA (Low Energy Precision Application)
- U Unknown or not mapped

As part of the map symbols these irrigation type letters required a circle around them so that they are not confused with the special condition letters.

Example: P1-B indicates border strip irrigated alfalfa.

#### 3. SOURCE OF IRRIGATION WATER

| Water Source                 | <u>Code</u> |  |  |
|------------------------------|-------------|--|--|
| Surface water                | 1           |  |  |
| Mixed surface & ground water | 2           |  |  |
| Ground water                 | 3           |  |  |
| Unknown source               | 4           |  |  |
| Recycled or reclaimed        | 5           |  |  |

Example: P3-B1 indicates border strip irrigated pasture with surface water as the water source.

#### VIII. MULTIPLE LAND USE

#### **INTERCROPPING**

Used with orchards or vineyards when intercropped with some other crop class. Indicated by a fractional symbol, with the orchard or vineyard symbol appearing in the numerator.

Example: D12-Y/F10 indicates young almonds intercropped with dry beans.

#### **DOUBLE CROPS**

Used when two consecutive crops are grown in the survey season. The first crop is indicated by enclosed parenthesis.

<u>Example:</u> (G)F6 indicates irrigated grain followed by field corn.

#### TRIPLE CROPS

Used when three consecutive crops are grown in the survey season. The first and second crops are indicated by enclosed parenthesis.

Example: (T8)(T23)T8 indicates irrigated lettuce followed by cabbage followed by

lettuce.

#### MIXED LAND USE

Used when two to three land uses are present in one area but, because of the large degree of intermixing, cannot be delineated separately. Indicated by percentages following land use symbols. No more than three different land uses may be used in describing the area. Percentages are in increments of 10.

Example: D5 - 40% indicates irrigated peaches 40%

NV - 20% indicates native vegetation 20% UR - 40% indicates urban residential 40%

#### IX. FURTHER INSTRUCTIONS, CLARIFICATIONS AND EXAMPLES

- 1) Land use class and subclass should come before the dash which separates the special condition, irrigation type, and source of water.
- 2) Water source should be the last symbol in the code. If the field has more that one crop, the source should follow the last crop.
- 3) Irrigation type and source of water must be enclosed in a circle.

#### LAND USE CODE EXAMPLES



F1-(F3)

Indicates cotton that is furrow irrigated with ground water as the water source.

D12-YP

Indicates young irrigated almonds that are irrigated with a permanent sprinkler system.

#### **Intercropped:**

D13-Y/F10(P1)

Indicates young irrigated walnuts intercropped with dry beans, irrigated by a permanent sprinkler system with surface water as the water source.

#### Double cropped:

(G-H)F6-F2

Indicates grain irrigated with a hand move sprinkler system followed by furrow irrigated corn, with mixed ground and surface water as the water source.

#### Triple Cropped:

(T8)(T23)T8-(P)

Indicates irrigated lettuce followed by irrigated cabbage followed by irrigated lettuce, all three crops irrigated by a permanent sprinkler system (when type of irrigation is not shown next to the first and second crops, the irrigation type for the last crop will be assumed for the first two crops).

(T8-(U))(T23-(U))[T8-(H3)

Indicates irrigated lettuce with unknown irrigation type, followed by irrigated cabbage with unknown irrigation type, followed by lettuce irrigated with a hand move sprinkler system, with ground water as the water source.