

**STATE WATER RESOURCES CONTROL BOARD
EX PARTE COMMUNICATIONS REGARDING PENDING GENERAL ORDERS
DISCLOSURE FORM**

Note: This form is intended to assist the public in providing the disclosure required by law. It is designed to document meetings and phone calls. Written communications may be disclosed by providing a complete copy of the written document, with attachments. Unless the board member(s) provided you with a different contact person, please send your materials to: commentletters@waterboards.ca.gov

Use of this form is not mandatory.

1. Pending General Order that the communication concerned:

Eastern San Joaquin River Watershed Agricultural Order

2. Name, title and contact information of person completing this form:

Note: Contact information is not mandatory, but will allow the Water Board to assist you if additional information is required. If your contact information includes your personal residence address, personal telephone number or personal email address, please use a separate sheet of paper if you do not want that information posted on our website. However, this information may be provided to members of the public under the Public Records Act.

Abby Taylor-Silva, Vice President of Policy & Communications
Grower-Shipper Association of Central California, (831) 422-8844

3. Date of meeting, phone call or other communication: January 8, 2018

Time: 12:00 p.m.

Location: State Water Board, EPA Building, Sacramento, CA

4. Type of communication (written, oral or both):



5. Names of all participants in the communication, including all board members who participated:

Kay Mercer, Kirk Schmidt, Abby Taylor-Silva, Emel Wadhvani, Phil Wyels, Darrin Polhemus, Tam Doduc, Steven Moore, another Irrigated Lands Staff Member

6. Name of person(s) who initiated the communication:

Abby Taylor-Silva

7. Describe the communication and the content of the communication. *Include a brief list or summary of topics discussed at the meeting, any legal or policy positions advocated at the meeting, any factual matters discussed, and any other disclosure you believe relevant. The Office of Chief Counsel recommends that any persons requesting an ex parte meeting prepare an agenda to make it easier to document the discussion properly. Attach additional pages, if necessary.*

The discussion centered upon a review of the attached. Following the meeting, Kirk Schmidt shared statistics about the size of Central Coast farms with Phil Wyels, in answer to a question he posed in the meeting.

8. **Attach a copy of handouts, PowerPoint presentations and other materials any person used or distributed at the meeting. If you have electronic copies, please email them to facilitate web posting.**

Agenda

Meeting of State Water Board Members Doduc and Moore, Kirk Schmidt, Abby Taylor-Silva, Kay Mercer

January 8, 2018 @ Noon

EPA Building, Sacramento, CA

- I. Welcome
- II. Discussion of redline-track changes presented
- III. Discussion of other matters of importance
- IV. Adjourn

From a resource perspective, third parties allow a regional water board to leverage limited regulatory staff by acting as intermediaries between the regional water board staff and the growers, freeing regional water board resources to focus on problem areas or actors. Third parties also may have the expertise to provide technical assistance and training to growers at a scale that cannot be matched by regional water board staff resources, and, in many cases, third parties already have relationships in place with the dischargers.⁶⁰

Because third parties build on relationships already in place with growers, third parties can engender a high level of trust and more effectively reach out to growers to increase understanding of the permit provisions and to facilitate management practice development and deployment, especially in cases where improved management practices are required of particular growers. In addition, there are a number of cost benefits to the growers enrolled in a third-party program.

These include centralization of fee collection and the resulting reduction in the growers' annual water board fee, potentially reduced costs in management practice implementation facilitated by access to management practice effectiveness information, significantly reduced monitoring costs due to allowance for regional and trend water quality monitoring by the third party in lieu of individual farm monitoring under an individual permit, and reduced reporting costs when the third party shoulders responsibility for data entry into systems such as CEDEN and GeoTracker.⁶¹ The Agricultural Expert Panel also endorsed the third-party based approach of the Central Valley Water Board irrigated lands program and recommended that other regional water boards follow a similar approach.⁶² We take our support for third parties one step further in this Order. We believe that a carefully-crafted third party-based approach should be an available option for all of the significant agricultural discharge programs in the state. Therefore, we direct all of the regional water boards to issue general waste discharge requirements or general waivers of waste discharge requirements based on a third-party approach consistent with our description of the roles and responsibilities of a third party in this Order within the next five years. However, establishment of third parties is not precedential on the Central Coast, where an existing comprehensive coalition does not exist. The regional water boards should also continue to issue general waste discharge requirements or general waivers of waste discharge requirements for individual growers that choose not to form a third party or to join an existing third party. Those individual growers would have the same management and reporting obligations that are identified as precedential in this Order, and no additional requirements, but would not, of course, receive the benefits associated with being a member of a third party.

⁶⁰ State Water Board Order WQ 2013-0101, pp. 13-14.

⁶¹ CEDEN is the State Water Board's data system for surface water quality in California. GeoTracker is a statewide database and geographic information system that provides online access to environmental data. The Eastern San Joaquin Agricultural General WDRs require entry of surface water quality data collected under the General WDRs into CEDEN and groundwater quality data collected into GeoTracker.

find that the data required to be reported by the Members to the Third Party is generally appropriate, but direct several revisions, primarily with regard to nitrogen application reporting.

With regard to reporting of the data from the Third Party to the Central Valley Water Board, we revise the General WDRs to require reporting of some of the data at a field level.¹ We also revise elements of the water quality monitoring provisions. With regard to surface water monitoring, we direct State Water Board staff to convene a panel of experts for further consideration of an appropriate monitoring framework.

Our revisions are based on recommendations of the Nitrogen Tracking Task Force Report, the Agricultural Expert Panel Report, and on our own review of the General WDRs. We also relied substantially on a compromise proposal regarding data submission that a group of agricultural representatives and environmental justice organization representatives jointly presented to Board members during the pendency of our own motion review. The directed revisions are designed to strengthen the correlation between the management practices implemented, the monitoring and reporting required, and the water quality requirements of the General WDRs. In particular, the automatic reporting of certain data to the Central Valley Water Board at the field level, rather than only in summary form, is expected to lead to more effective oversight and management of the program by the Central Valley Water Board, as well as provide more transparency for the public.⁶³ We conclude that the Order is consistent with the Water Code and with the Nonpoint Source Policy with the revisions that we direct.

Appendix A is a copy of the Eastern San Joaquin Agricultural General WDRs with revisions directed by us shown in red in underline/strikeout format. We reference Appendix A throughout our discussion below and hereinafter refer to it as the “Modified Eastern San Joaquin Agricultural General WDRs.” In addition to the revisions referenced specifically in this order, Appendix A contains a number of conforming revisions to make other sections of the Modified Eastern San Joaquin Agricultural General WDRs consistent with the directed revisions (such as revisions to Attachment E, Definitions), as well as additional substantive and non-substantive minor revisions throughout.⁶⁴

⁶³ As will be discussed in detail in the sections that follow, we have not required the initial reporting of field-level data with name or location identifiers. For the reasons discussed below, we find that the effective management of a nonpoint source program for agricultural discharges is not necessarily dependent on tying each data point to a discharger identified by name, or to a specific location. However, we find it is essential to continue to allow the Central Valley Water Board to require submittal of specific names or locations, or names or locations generally, should the Central Valley Water Board make a determination that it is necessary.

⁶⁴ We note that this order provides the rationale for the significant revisions to the Eastern San Joaquin Agricultural General WDRs. We have not updated all findings of the General WDRs and supporting documents, including in particular the Information Sheet, related to the revisions. Nor have we updated the findings of the General WDRs and supporting documents to reflect all new and changed information since the issuance of the General WDRs.

¹¹ In some regions, including the Central Coast, field may be defined as a ranch, consistent with the definition already documented in the Central Coast Regional Water Quality Control Board’s current order. Ranch is currently defined as: A tract of land where commercial crops are produced or normally would have been produced. Individual farms/ranches typically have a similar farm/ranch manager, operator or landowner(s) and are categorized by farm size, primary output(s), and/or geographic location.

relevant section below, for requirements currently imposed only in high vulnerability areas to also apply to low vulnerability areas. Additionally, under our revisions, the high/low vulnerability designations may continue to be used for prioritization in the context of some of the groundwater monitoring requirements, as we will discuss in section II.A.8 of this order.⁷⁴ Further, the criteria forming the definition of high vulnerability will continue to inform the requirement to prepare a water quality management plan for both surface water and groundwater.

The uniform application of requirements for groundwater protection shall be precedential for irrigated lands programs statewide. But we leave open the possibility that risk based designations continue to be used for differentiating surface water protection requirements and for phasing in groundwater protection requirements. We also decline to direct a uniform set of criteria for risk designation and leave the regional water boards with considerable discretion to design reasonable frameworks for differentiation and prioritization. In addition to the high/low vulnerability approach of the Eastern San Joaquin Agricultural General WDRs, such criteria may, for example, include the risk-based tier designations in the Central Coast irrigated lands programs or possibly categories based on farm-size.⁷⁵

Finally, we acknowledge, as further discussed in Section II.A.5.b below, that there may be uniquely-situated categories of growers for whom the requirement for nitrogen reporting is inappropriate. Our order revisions allow a category of growers to be exempted from the nitrogen applied and removed reporting requirements subject to a demonstration that applied nitrogen is not expected to seep below the root zone in amounts that would, even over multiple decades, reach groundwater, and is further not expected to discharge to surface water.

2. Requirement to Participate in Outreach Events

Under the Eastern San Joaquin Agricultural General WDRs, members in high vulnerability areas are required to participate in outreach events and review outreach materials to become informed of any known water quality problems and the management practices that are available to address those problems.⁷⁶ We extend the requirement to participate in outreach events to all Members. This is consistent with the direction of the Agricultural Expert Panel for the

⁷⁴ The groundwater monitoring requirements of the Eastern San Joaquin Agricultural General WDRs, discussed in section II.A.8, are carried out by the Third Party and implemented and phased in in part based on determinations of high and low vulnerability. Because of the time and resources that have already been invested by the Third Party and Central Valley Water Board in setting up the vulnerability-based framework for the groundwater monitoring programs, we continue to allow phasing based on vulnerability for those requirements.

⁷⁵ Phasing by farm size leads to initial compliance by a large number of acres represented by a small number of growers.

⁷⁶ Eastern San Joaquin Agricultural General WDRs., § IV.B.4, p.18.

development of a “very strong, comprehensive, and sustained educational and outreach program.”⁷⁷ However, we recognize the additional burden on some Members and on the Third Party created by applying the outreach participation requirement uniformly. Because all Members must now participate in third-party outreach events, at least annually, we revise the provision to allow for the possibility of participation to occur without in-person attendance. We also phase in the requirement to participate in outreach events in low vulnerability areas by requiring participation beginning only in 2020. This delay will provide the Third Party an opportunity to increase staffing and funding for outreach events. As appropriate depending on the anticipated grower audience, we expect that the outreach events and outreach materials will be provided in multiple languages.

Regardless of whether a grower is a member of a coalition or third party, the requirement for uniform participation in outreach events shall be precedential for irrigated lands programs statewide.

The directed revisions are indicated at Appendix A, Modified Eastern San Joaquin Agricultural Order, section IV.B.4, page 19.

3. Farm Evaluation

The Eastern San Joaquin Agricultural General WDRs require that all Members complete a Farm Evaluation describing management practices implemented to protect surface water and groundwater quality. The Farm Evaluations also include information such as the location of the farm, surface water discharge points, and the location of wells. Farm Evaluations are required of all Members, but only Members in high vulnerability areas must update the Farm Evaluation annually. The Farm Evaluation must be prepared by the Member and submitted to the Third Party. The Member must keep a copy and must produce it upon request by the Central Valley Water Board staff.⁷⁸ The Third Party aggregates and summarizes information collected from Farm Evaluations in the annual Monitoring Report submitted to the Central Valley Water Board.⁷⁹ We make several revisions to the Farm Evaluation provisions as laid out below.

a. Farm Evaluation Update Frequency

The Farm Evaluations are the mechanism for identification of the on-farm management practices implemented to achieve the General WDRs’ management practice performance standards. As such, they constitute an essential component of the General WDRs. However, we find that annual submission of the Farm Evaluations is necessary only when water

⁷⁷ Agricultural Expert Panel Report, p.27.

⁷⁸ Eastern San Joaquin Agricultural General WDRs., § VII.B, pp. 24-25.

⁷⁹ *Id.*, Attach. B, MRP, § V.C, Report Component (18), pp.23-24.

quality problems indicate the need for iterative updating of implemented management practices. Based on the experience of the East San Joaquin Water Quality Coalition to date, most implemented management practices otherwise remain fairly stable from year to year. For this reason, we require submission of the Farm Evaluations only every five years for Members in both high vulnerability areas and low vulnerability areas, except where the Executive Officer determines that more frequent reporting is warranted.⁸⁰ In turn, we strengthen the requirements for management practice implementation data reporting for fields covered by an SQMP or GQMP. As will be discussed under section 9 below (Surface Water and Groundwater Quality Management Plans), we require submission of a separate Management Practice Implementation Report (MPIR) for Members in areas for which the third party is implementing a SQMP or GQMP. The Central Valley Water Board, with input from the Third Party, will have discretion to determine appropriate reporting frequency for the MPIR based on the life cycle of the management practices being implemented, but we expect that the reporting will be annual or more frequent. We also move the reporting of irrigation practices and nitrogen application practices to the Irrigation and Nitrogen Management Summary Report so that these practices continue to be reported on a consistent basis, no more often than every other year. ~~an annual basis.~~

The requirement for submission by all growers of management practice implementation information shall be precedential for irrigated lands programs statewide, however, the regional water boards shall continue to have discretion as to the frequency of such submissions.

The directed revisions are indicated at Appendix A, Modified Eastern San Joaquin Agricultural General WDRs, section VII.B, pages 25-26, section VII.G, p. 31, Attachment B, MRP, section VI.B, INMP Components (4) and (5) .

b. Content of Farm Evaluation Template

In terms of the content of the Farm Evaluation, we direct changes to the information fields of the template. The Central Valley Water Board has approved a template for the Farm Evaluation. The Farm Evaluation template lists management practices appropriate for pesticide application, irrigation, nitrogen management, and sediment and erosion management and directs Members to identify those management practices employed at their operations. We expand the list of management practices a Member should consider with the purpose of making the list more comprehensive. However, we also move questions regarding irrigation and nitrogen

⁸⁰ The Executive Officer may, for example, require more frequent update and submission of the Farm Evaluation where a Member is an outlier for nitrogen application.

must be done hand-in-hand with irrigation management, pointing out that water movement through the soil is the mechanism for nitrate transport.⁹⁴ We will hereinafter refer to the plan as revised in the Modified Eastern San Joaquin Agricultural General WDRs as the Irrigation and Nitrogen Management Plan or “INMP,” and to the summary submitted to the Third Party as the “INMP Summary Report.” As stated under section 3 (Farm Evaluation), we also move reporting sections related to irrigation management and nitrogen management from the Farm Evaluation to the INMP Summary Report. Finally, we add a question inquiring whether the Member has been identified in the past year as an outlier for nitrogen application, a concept we discuss in greater detail below. The addition of this question assists in verifying that the Third Party and the Members are communicating effectively and alerts the Central Valley Water Board that the Member may have been required to update or improve management practices related to irrigation and nitrogen management.

The requirement for incorporation of irrigation management elements into nitrogen management planning shall be precedential for irrigated lands programs statewide.

The directed revisions are indicated at Appendix A, Modified Eastern San Joaquin Agricultural General WDRs, Attachment B, MPR, section VI.B, pages 32-37.

b. Extension of Certification and Summary Reporting Requirements to All Members

We next make revisions to the nitrogen management provisions of the Eastern San Joaquin Agricultural General WDRs to remove the distinction in requirements for high and low vulnerability groundwater areas. This revision means that all Members must now have a *certified* INMP and must submit an INMP Summary Report to the Third Party. We have also specified certification language for the INMP that states that the preparer used sound irrigation and nitrogen management planning practices to develop irrigation and nitrogen application recommendations and that the recommendations are informed by applicable training for meeting the crop’s agronomic needs while minimizing nitrogen loss to surface water and groundwater.⁹⁵ However,

⁹⁴ Agricultural Expert Panel Report, p.ii.

⁹⁵ In expanding the certification requirement, we are also sensitive to the concerns expressed by professionals certifying the INMP regarding potential liability for groundwater nitrate impacts, as well as the scope of their professional insurance coverage. With regard to liability under the Water Code, we note that consultants to dischargers are generally not considered to be dischargers of waste and therefore not liable for violations of the dischargers’ waste discharge requirements. With regard to third-party liability, we direct the Central Valley Water Board and the Third Party to include specific language in the certification aimed to limit such liability. (See App. A, Modified Eastern San Joaquin Agricultural General WDRs, Attach. B, MPR, § VI.B, INMP Component (26), page 35-36, Attach. E, Def., 7 & fn. 2, p.2.) The certification language additionally states that the certification does not create liability for environmental violations.

we allow Members in low vulnerability areas until March 1, 2020, to complete a certified INMP, and until March 1, 2021, to submit the INMP Summary Report. The phasing allows limited certification resources to continue to focus on the higher priority acreage while available training develops to match the demand for certification. The training needs to continue to evolve to better incorporate the concepts related to irrigation and nitrogen management planning expressed in this Order and recognized by the Expert Panel.⁹⁶ The phasing also allows the Third Party additional time to expand its staffing and funding to accommodate outreach and processing for nitrogen application submissions.

The requirement for all Members to prepare certified irrigation and nitrogen management plans and to submit summary data from the plans to the party shall be precedential statewide. The certification language shall also be precedential statewide. If no comprehensive Coalition exists in a region, the irrigation and nitrogen management plans will be retained by the grower and submitted directly to the Regional Board upon request if there is a compelling reason with respect to the specific grower or specific location in question.

However, we recognize that there may be uniquely-situated categories of growers for whom the requirement for nitrogen management is inappropriate because applied nitrogen is not expected to seep below the root zone in amounts that would, even over multiple decades, reach groundwater, and is further not expected to discharge to surface water. We will not distinguish these categories based on high and low vulnerability as the Eastern San Joaquin Agricultural General Order currently does. Instead, any category of Members (such as growers of a particular crop or growers in a particular area) seeking to be exempted from irrigation and nitrogen planning and reporting requirements shall make a demonstration, for approval by the relevant regional water board, that nitrogen applied to the fields does not percolate below the root zone in any significant amount and does not migrate to surface water through discharges, including drainage, runoff, or sediment erosion.⁹⁷ The criteria for determining categories of growers that may be exempted from the irrigation and nitrogen planning and reporting requirements shall also be precedential statewide.

c. New Metric for Nitrogen Application Management

We make additional revisions to the nitrogen management provisions of the Eastern San Joaquin Agricultural General WDRs in response to recommendations made by the Agricultural Expert Panel regarding methodologies for measuring appropriate nitrogen application

⁹⁶ Agricultural Expert Panel Report, pp. 29-30-.

⁹⁷ Based on written and verbal comments received on a February 8, 2016, draft of this order, we have been made aware that rice growers in the Central Valley region may have already made the required demonstration, but that will be a determination for the Central Valley Water Board to make in the first instance. Similarly, members in the San Joaquin County and Delta Water Quality Coalition may have demonstrated that nitrogen applied to the fields does not percolate below the root zone, but must, at a minimum, additionally demonstrate that the applied nitrogen does not migrate to the surface water before the Central Valley Water Board could exempt them from the irrigation and nitrogen planning and reporting requirements.

and assessing nitrogen over-application. The purpose of the nitrogen management planning requirements in the Eastern San Joaquin Agricultural General WDRs is two-fold. First, the INMP aids Members in projecting the total nitrogen a given crop will require for a single growing season.

This is done by considering the nitrogen already available in soil and irrigation water, which allows a grower to plan for the appropriate amount of fertilizer to be applied to meet crop requirements.

Such planning helps avoid over-application of nitrogen fertilizer that may lead to excess loss of nitrogen to groundwater. Second, the data made available to the Third Party and the Central Valley Water Board through the INMP Summary Report enables those entities to consider the range of nitrogen application values reported for similar crops and allows the Third Party to identify outliers for follow-up actions with the goal of reducing over-application. The expectation is that the Regional Boards must take under advisement the recommendations of technical experts and the regulated community to determine and establish reasonable and transparent criteria for defining outliers.

In regions with a predominance of multiple crops grown on the same field within a year, such as berries and cool season vegetables, alternative nutrient planning methodology may be used by the growers.

We considered nitrogen application planning and reporting in the Central Coast Agricultural Order in Order WQ 2013-0101. In that case, we struck a requirement for Central Coast dischargers to “make progress toward” a target ratio of nitrogen application to nitrogen uptake in favor of requiring all Tier 2 and Tier 3 dischargers to report total nitrogen applied by fields or management blocks. We stated that the directed revisions “reflect[ed] our best judgment as to temporary measures required to keep work on this important public health and environmental issue moving forward” but that we would look to the Agricultural Expert Panel to “propose a comprehensive, consistent approach that will inform agricultural regulatory programs statewide.”⁹⁸ In reviewing the Eastern San Joaquin Agricultural General WDRs, we now have the benefit of the Agricultural Expert Panel Report, and make revisions to the General WDRs consistent with the Panel’s recommendations on nitrogen management.

The Agricultural Expert Panel reviewed the crop uptake ratio we rejected in Order WQ 2013-0101 and the nitrogen consumption ratio in the Eastern San Joaquin Agricultural General WDRs, and considered the difficulties associated with determining field level nitrogen balances.⁹⁹ The Agricultural Expert Panel additionally considered the recommendations of the Nitrogen Tracking Task Force, including the recommendation that growers track values for total nitrogen applied to the field, actual yield, and nitrogen removed from the field through primary and secondary harvest yields.¹⁰⁰ The Agricultural Expert Panel proposed a refinement on the nitrogen

⁹⁸ State Water Board Order WQ 2013-0101, p. 42. The Sacramento Superior Court Ruling stated that the court “is not persuaded that an adequate Waiver necessarily must include nitrogen balancing ratios,” but questioned the State Water Board’s rationale in removing them as reportable milestones. (Sacramento Superior Court Ruling at 36.) As we discuss in this order, the Agricultural Expert Panel, building on work by the Nitrogen Tracking Task Force, proposed a metric for nitrogen balancing which we now direct all irrigated lands programs to adopt.

⁹⁹ Agricultural Expert Panel Report, pp. 21-22.

¹⁰⁰ Nitrogen Tracking Task Force Report, p. 17.

applied and nitrogen removed calculations as the simplest metric of good management – the multi-year ratio of nitrogen applied to the field (A) to nitrogen removed from the field (R), or the A/R ratio. The nitrogen applied includes nitrogen from any source (i.e. organic amendments, synthetic fertilizer, and/or nitrogen in irrigation water). The nitrogen removed includes the nitrogen present in all harvested materials removed from the field (including any prunings, removed vegetation, etc.) plus, in the case of perennial crops, the nitrogen sequestered in the permanent wood.¹⁰¹ Nitrogen removed is based on a measurable value of yield. Crop yield is multiplied by a coefficient determined via direct testing of the harvested materials. by academic studies based upon standardized harvest units. The nitrogen removed coefficient expresses the amount of nitrogen for a given crop per unit of crop yield.

The multi-year A/R ratio, as proposed by the Agricultural Expert Panel and implemented in this order, is distinguished from previous ratios in two ways. First, it utilizes removed nitrogen instead of nitrogen uptake/consumption. This is an important simplification as it is based on a measurement instead of an estimate. The basis of any good performance metric is that it relies on quantitative measurements that can be performed simply and repeatedly with relative accuracy and that it is easy to understand. The uptake/consumption of nitrogen by a crop as it was employed by the previous orders was based on estimation, not a measurement. Often the published guidance regarding plant uptake/consumption has wide ranges of values from which to select, with variation from low to high values ranging as much as 40 percent. Because of these inherent complexities and inaccuracies, using uptake/consumption as part of a performance metric is problematic. Second, utilizing the measurements of applied and removed nitrogen over several years allows for variations that happen from year to year to cancel out and the carryover of nitrogen in soil to become insignificant for purposes of tracking and reporting. A multi-year approach to a performance metric related to nitrogen management serves to simplify some of the inherent complexity of trying to perform a nitrogen balance on an annual basis and justly account for nitrogen present in its many varied states within a field and crop system.

When evaluated over multiple years for perennial or annual crops grown in succession on the same field, the A/R ratio provides a reliable measurement of the nitrogen left in the field.² -There are growers that don't grow the same crop in the same place within a three-year period and the Regional Board can deem appropriate a system created by the regulated community that will equitably track the annual nitrogen used by that grower. In each consecutive year, the nitrogen left in the field from the prior year, as approximated by the A/R ratio, will either be utilized by the next crop or move further down in the soil column with potential to be leached to groundwater. If, over several years, the ratio of nitrogen applied and nitrogen removed from the field remains high, a significant portion of the nitrogen applied to the field is remaining in the field and potentially reaching groundwater over

¹⁰¹ *Id.*, p. 28.

time through percolation.¹⁰² A high multi-year A/R ratio thus alerts the Member, the third-party group, and the regional water board to the need to address over-application at the field level. As recommended by the Agricultural Expert Panel, a multi-year A/R ratio may also provide the basis for acceptable multi-year A/R ratio target values, with reduction in the multi-year A/R ratio toward the target ratio for an area over time acting as a proxy for reduction in nitrate discharge to groundwater.¹⁰³ The Agricultural Expert Panel Report identified a shift to using the A/R ratio in nitrogen management as critical in reducing nitrogen leaching to groundwater because the multiyear A/R ratio will provide a fairly accurate picture of the efficiency of the nitrogen application on the field and the potential over-application of nitrogen over several years. Similarly, the trend in the multi-year A/R ratio over time will inform whether practices are working to reduce the amount of nitrogen being left on the field and the corresponding potential for discharge to groundwater.

Although not considered by the Agricultural Expert Panel, we find that the multiyear A/R ratio will be rendered more informative if additionally paired with an A-R difference value (pounds of nitrogen applied minus pounds of nitrogen removed) to further tease out the magnitude of any potential nitrogen over-application, especially in cases where use of only the multi-year A/R ratio may mask significant quantities of nitrogen left in the field.¹⁰⁴ Further, the A-R difference, whether considered at the scale of a field, a township, or an alternative geographic unit, provides useful information on the magnitude of the amount of nitrogen left in the soil with potential to reach groundwater. This data in turn allow the Third Party and regional water board to better focus follow-up and management practice implementation as well as research and modeling on groundwater loading.

We find that the INMP should include recording, and the INMP Summary Report should include reporting, of the data supporting the calculation of the multi-year A/R ratio and A-R difference.¹⁰⁵ We revise the Eastern San Joaquin Agricultural Order to eliminate reporting on the nitrogen consumption ratio and to instead require recording and reporting of the AR data. We will require Members to determine and report nitrogen applied and crop yield.¹⁰⁶ Based on this data,

¹⁰² *Ibid.*

¹⁰³ *Id.*, pp. iii, 24, 38.

¹⁰⁴ For example, a grower applying 75 pounds of nitrogen and removing 50 has the same A/R ratio of 1.5 as a grower applying 450 pounds of nitrogen and removing 300. But the nitrogen left in the field by the second grower is six times the magnitude of the nitrogen left in the field by the first grower.

¹⁰⁵ We refer herein to "AR data" to encompass the multi-year A/R ratio and all data required to be reported in support of that ratio, including the A-R difference.

¹⁰⁶ At this early stage in adoption of the AR data reporting, we find it is appropriate to ask Members to report only measured values and not values that require calculation. However, we will require the Third Party to report individual

we will require the Third Party to calculate annual A/R ratio and A-R difference values as well as a three-year running average, where feasible,¹⁰⁷ for these values for each Member for each field. The Third Party shall communicate the calculated values back to the Members.

We specify the minimum requirements for the templates for the INMP and the INMP Summary Report as revisions to the General WDRs. Templates may be proposed by the Third Party and used with approval from the Central Valley Water Board.

The precedential requirement shall be stayed for five years after adoption of the next Irrigated Lands Regulatory Permit in regions with a predominance of annual crops not grown in succession on the same field. We recognize that there are farming systems that are unique and it may not be possible to determine removal coefficients for each specific crop. This allows discretion to adopt interim metrics for reasonable tracking of nitrogen for crops where removed coefficients are not known.

The directed revisions are indicated at Appendix A, Modified Eastern San Joaquin Agricultural General WDRs, section VII.D, pages 27-29; Attachment B, MRP, section VI.B, pages 32-37.

d. Requirement for Third Party to Determine Nitrogen Removed Coefficients

One short-term challenge to using the multi-year A/R ratio and A-R difference is that certain information and data gaps need to be filled. There is insufficient information currently available to calculate the R value for most crops. This data needs to be gathered over time. At this time, it is not a common practice for a grower to track the amount of nitrogen removed during harvest. Terminology currently used for nitrogen application recommendations focuses on crop nitrogen uptake or crop nitrogen need with the goal of maximizing crop yield. Use of the multiyear A/R ratio and A-R difference thus requires a change in nitrogen application recommendations and terminology.¹⁰⁸

Research is required to determine crop removal values. The Agricultural Expert Panel recommended research by third-party groups, commodity groups, and institutions to develop the data.¹⁰⁹ Such research would determine values for how many pounds of nitrogen are contained in a unit of crop yield (e.g. lbs-N/ton of almonds). This can be expressed as a coefficient, that, when multiplied with a crop harvest, will estimate the nitrogen removed. The

A/R ratio and A-R difference values back to the Members so that the Members have the benefit of the information these values provide.

¹⁰⁷ We recognize that fields are not always planted with the same crop for three consecutive years and further that the boundaries of a fields may change from year to year. It may not be feasible to calculate A/R and A-R ratios on a field-level in some cropping systems. A ranch reporting system may be more meaningful.

¹⁰⁸ Agricultural Expert Panel Report, pp. 27-28.

¹⁰⁹ *Id.*, p.40.

research will ultimately need to be completed for all harvested crop materials, including secondary, or complementary, harvests (i.e. prunings, removed vegetation, etc.). We task the Third Party with conducting the appropriate testing or research¹¹⁰ to determine the relevant coefficients for calculating nitrogen removed by crop. We direct the Third Party to publish nitrogen removed coefficients for crops that cover 95% of acreage within the General WDRs' boundaries in time for use with the INMP Summary Reports due 1 March 2021 and 99% of the acreage in time for use with those due 1 March 2023 (with estimated coefficients based on similar crops being acceptable for crops covering the remaining 1%). The coefficients shall be approved by the Central Valley Water Board Executive Officer, in consultation with State Water Board staff, following an opportunity for public review and comment. Once approved, the Third Party must use those values to retroactively calculate the A/R ratio and A-R difference, both past annual reported values, and the three-year running average for the A/R ratio based on the three prior years.

The requirement for use of agronomically defensible and transparently derived coefficients for conversion of yield to nitrogen removed values shall be precedential statewide. In determining the appropriate coefficients, the regional water boards must ~~approve the~~ determine a range of appropriate values, but may rely on their own research ~~and~~ on the research of the third party qualified parties, including agronomically applicable academic research, a review of the scientific literature, and further may consider for approval coefficients evaluated by other regional water boards.

The directed revisions are indicated at Appendix A, Modified Eastern San Joaquin Agricultural General WDRs, Attachment B, MRP, Section V.D, page 25.

e. Expansion of Reporting Requirements

i. Rationale for Field-Level Nitrogen Application Data Reporting to the Central Valley Water Board

The Eastern San Joaquin Agricultural General WDRs require Members to report nitrogen application data in the INMP Summary Report that is submitted to the Third Party; the Third Party in turn aggregates that data and reports it to the Central Valley Water Board in a manner that characterizes the input, uptake, and loss of the nitrogen application by specific crops, but summarizes the data at the township level, rather than by Member or field.¹¹¹ Because the multi-year A/R ratio will provide a concrete, measurable, and reliable benchmark by which progress in reducing groundwater nitrate impacts can be determined, we find that the data should be reported to the Central Valley Water Board by field (although, as we discuss in more detail

¹¹⁰ Published values for many crop coefficients are already available in the scientific literature.

¹¹¹ Eastern San Joaquin Agricultural General WDRs, Attach. B, MRP, § V.C, Report Component (17), p.23.

Water Board finds its oversight function requires a more proactive effort, we note that the Central Valley Water Board may at any time request the names and locations corresponding to the anonymous identifiers.¹²² This option allows the Board to effectively follow up with individual Members where the data indicates that insufficient progress is being made by the Third Party's follow-up efforts with a Member.

In section II.A.11 of this order, we set out our direction to the Central Valley Water Board on how the submitted data shall be utilized.

In addition to submitting the underlying data, we direct the Third Party to evaluate the data, providing comparisons of the A/R ratio and A-R difference by crop type, and within crop type, by irrigation method, soil condition, and farming operation size and other appropriate evaluations as directed by the Executive Officer.

The Third Party is directed to report the data sets set out above in accordance with the schedule set out in Appendix A, Modified Eastern San Joaquin Agricultural General WDRs.

The requirement for field-level AR data submission to the regional water board consistent with the data sets and analysis of those data sets described in this Order shall be precedential for irrigated lands programs statewide. For third-party programs only, the data shall be submitted with anonymous identifiers unless the regional water board finds that there is a compelling grower-specific or location-specific reason why the data should be submitted with name or location identifiers. With regard to the aggregated dataset, the regional water board is not limited to aggregating the data at the township level, but may choose a smaller or larger area unit based on region-specific and program-specific considerations.

The directed revisions are indicated at Appendix A, Modified Eastern San Joaquin Agricultural General WDRs, section VIII.D, p. 34, Attachment B, MRP, section V.D, pages 24-27, section V.E, Report Component (17), pages 29-30.

f. Required Follow-Up

We further revise the Eastern San Joaquin Agricultural General WDRs to require specific actions of the Third Party and of the Member when a Member is determined to be an outlier based on reported AR data. Outliers will be identified by the Third Party, or the Regional Board if no third party exists, annually based on the INMP Summary Report data submitted for that particular year. Outliers will be determined by comparison of farms in a similar geographic area. Consideration should be given to factors such as soil type, and climatic gradient conditions.

Eventually, it is our expectation that outliers will be determined with reference to the ranges for the multi-year A/R ratio and A-R difference target values developed by the Third Party and the Central Valley Water Board. At this early stage, we

¹²² Eastern San Joaquin Agricultural General WDRs, § X, p. 36.

units, and a strong introduced discharge signal.”¹⁴² Where these conditions are present, there are opportunities for studies of management practice effectiveness, as with the Management Practice Evaluation Program of the General WDRs. But another tool is needed to track the effectiveness of implemented practices in reducing discharges to groundwater under a broader set of regional conditions. Although one such tool may be conducting a soil profile analysis by monitoring soil samples for presence of constituents of concern, obtaining a statistically significant number of samples on an annual basis would be prohibitively expensive.

In contrast, the multi-year A/R ratio, analyzed in concert with the A-R difference, is both a cost-effective and a reliable methodology for tracking the amount of nitrogen left in the soil over a period of time, and that may enter the groundwater from the soil. Trends in the multi-year A/R ratio are expected to follow changes in management practices on the field, providing a reliable indication of whether management practices are working to increase efficiency in nitrogen application and to reduce the potential for nitrogen loss to groundwater. The A-R difference further informs the magnitude of any potential over-application of nitrogen. The multi-year A/R ratio and the A-R difference are thus appropriate metrics for determining measurable progress toward ensuring agricultural discharges are not causing or contributing to exceedances of water quality standards in the groundwater. The information obtained through the multi-year A/R ratio and A-R difference in a given area may also subsequently be matched with the groundwater quality trend monitoring data to evaluate and verify the results and conclusions of the methodology.

The AR data is, of course, specific to nitrogen impact, and the groundwater monitoring provisions of the Eastern San Joaquin Agricultural General WDRs consider impacts from a wider set of constituents and remain an indispensable component of the regulatory program. However, with regard to nitrogen, we expect the multi-year A/R ratio and A-R difference to be the primary tools for management, reporting, and oversight going forward. except where research indicates that an alternate system of tracking fertilizer use would be more meaningful. If during the process of conducting A/R or A-R research, a more effective methodology is found to measure nitrogen use, such methodology could be used as an alternative to A/R or A-R. The intent is to encourage innovation to find the most effective measure, which could include lesser reporting.

The agricultural representatives and environmental justice organization representatives who presented the compromise proposal for data reporting to us also proposed development of a methodology for determining targets for nitrogen loading on a township by township basis. The group has committed to working on the proposal and we welcome their input. We direct the East San Joaquin Coalition to develop a project scope and timeline to further flesh out the proposal, in consultation with the Central Valley Water Board, for approval within two years of the adoption of this Order.

¹⁴² Agricultural Expert Panel Report, p. 8.

RANCH NAME	IRRIGATED ACRES
Elston Family Farm	1
GB	1
Green Earth Landscape & Nursery	1
Gold Rush Nursery	1
Greensward / New Natives LLC	1
Aromas Ranch	1
Field 1	1
Domani Vineyards	1
Warren's Nursery Inc. - Clark	1
Paradise Valley Vineyards	1
Shady Glenn Farms	1
Baldwin Ranch	1
Rivenrock Gardens	1
Church Avocados	1
La Paloma Ranch	1
Crown Point Olives	1
Warren's Nursery Inc.- Buckskin	1
Crist Home	1
Cathedral Oaks Village Association	1
Sanchez Nursery	1
102 Hollister Ranch	1
1	1
Los Padres Orchid Company	1
Vistosa Orchard	1
Yano Farms, Inc.	1
Pleasant Valley Vineyard	1
Scott Farm	1
Central Coast Wilds	1
James A. Brown	1
Bailey Farm	1
Terra Sole Nurseries, LLC	1
Orr Ranch	1
Sunset Nursery	1
Blankenship Ranch	1
Ritz Brunello	1
Sakaue Nursery	1
Aromas Nursery	1
Joe Chen Nursery	1
F3	1
Carman's Nursery	1
Faith Lutheran Church	1
Gladaway Warehouse	1
Williams Farm	1
McFarland	1

Number	%	acres	%	
4,095		413,181		Total
431	10.5%	1,396	0.3%	5 acres or less
781	19.1%	4,253	1.0%	10 acres or less
1,449	35.4%	16,032	3.9%	25 acres or less
2,157	52.7%	42,371	10.3%	50 acres or less
22	0.5%	34,885	8.4%	over 1,000 acres

RANCH NAME	IRRIGATED ACRES
Nishimura 3	1
Rincon Creek Farm	1
Overley Growers	1
Ukestad Vineyard	1
My Ranch	1
Ziegler Vineyard	1
Del Monte	1
Campagna	1
Mosby Ranch	1
George Goodall	1
Wickson Orchard	1
DOWNING ORCHARD	1
Qing Qiang Zhen Farm	1
Good Plants	1
Casa Nuez Macadamias	1
Christopher Vineyard	1
Patterson Ranch #2	2
santa ynez gardens inc.	2
Hilo's Ranch	2
Gordon Bennett Family	2
Mt. Green Nursery, Inc.	2
Home Ranch	2
jeff james	2
WY Chan Nursery	2
MacElvaine Ranch	2
Suncoast Nursery	2
Sakata Elite Propagation	2
Cabrillo College North Farm and South Farm	2
Main Yard	2
Rancho El Bajio	2
Buttercup Farm	2
Evans Vineyard	2
Ludwick Ranch	2
Pacar Ranch	2
Greenhaven Orchard	2
Santa Barbara Orchid Estate	2
Pegasus Vineyard	2
Mesa Grande Nursery	2
Homestead Olive Ranch	2
ANGEL VINEYARDS	2
Two Dog Farm/Orchard Field	2
Site 2 (4494)	2
Lionello Orchids, Inc.	2
NURSERY	2
Finley Family Farm	2

RANCH NAME	IRRIGATED ACRES
Windrock Estates Vineyard	2
Pacific Sun Growers, Inc.	2
Deja View Farm & Vineyard	2
PESSAGNO WINERY	2
Joe Chen Nursery	2
rn estate vineyard and winery	2
F1	2
Peter Chak Nursery	2
Singleton home	2
Natividad Nursery	2
Ping Huang Cheng Nursery	2
Plant Horizons	2
Rancho Caballo (RC)	2
avocado-ken	2
R.G. Thomsen Jr.	2
Boise Family Ranch	2
Dusty Acres	2
Test Farm 222	2
Goodfield Ranch	2
Bailard Ranch	2
Bunches	2
A Duda & Sons Seed Mill	2
Summerset Ranch	2
Manzanita Nursery	2
Haas Family Trust	2
Ritter Ranch	2
Cal-Orchid, Inc.	2
Redwing Vineyards	2
Stenner Creek Ranch	2
Johnson- Spring Creek Vineyard	2
Five G Farm	2
Winery Property	2
Esthers Garden	2
Claiborne & Churchill	2
Matthews Vineyard	2
Donati Vineyard	2
DeLanda LLC	2
Branciforte Ridge Vineyard	2
Nishikawa Ranch	2
Tamura Nursery	2
Home Ranch	3
Moran Nursery	3
Cal Seedling co.	3
2 Peas in a Pod Inc.	3
Rosendale Nursery	3

RANCH NAME	IRRIGATED ACRES
Windy Creek Ranch	3
United Genetics Seeds	3
Crescecnio Diaz	3
IRINO RANCH	3
SDV	3
Ken Leung Farm	3
Switch Ranch	3
Counsel Oaks	3
Bunyard Orchard	3
Wei Liang	3
Monte Sereno	3
Hatley Vineyard/Quinta Santa Rosa Vineyard	3
Salinas Valley Nursery	3
Erwin Vineyard	3
Asegra Ranch	3
Home Ranch	3
O.M.	3
French Ranch	3
Wennerstrom Family Trust	3
08 Calzada	3
schoch family trust	3
Prestons' Vineyard	3
FOREST NURSERY PASO	3
Meadowlark Nursery	3
Lau's Nursery	3
Bay Laurel Nursery	3
DeVilbiss Ranch	3
vance villa vineyard	3
OLEA FARM	3
H-A Orchard	3
Hillview Farm	3
2A	3
El Capitan Ranch/ Indian Valley Ranch	3
Ridgeline	3
t&l flowers	3
Sher J Wong Farm	3
Sonny LO Nursery	3
Kwong Nursery	3
Keith Lo Nursery	3
rong zhen liang	3
Kelsey See Canyon ranch	3
Fox Family Vineyard	3
HUANG MEI HUAN	3
Wen de Li	3
Anthan He Farm	3

RANCH NAME	IRRIGATED ACRES
Hilltop Ferini	3
Jack Creek Farms	3
Lewis BIDDLE RANCH (701)	3
Blossom Hill Nursery	3
Susan Kingsley	3
Steve Scheftic	3
DeBrito Ranch	3
Alto Pomar Vineyard	3
Rancho de las Noches	3
Bob Kuang Nursery	3
Ernesto Wickenden Vineyard	3
xu hong huang	3
idem	3
haussler organic farms	3
Laura B Lord Ranch	3
home	3
Exxon	3
Tung Woon Leung Nursery	3
Tangs Farm	3
LoBue Orchards	3
Bobeda Ranch	3
Starfire Vineyard	3
HILLTOP RANCH	3
Canyon Ranch	3
Kee's Greenhouse /Yuai Nursery	3
Fortino Winery	3
11 Oaks	3
Succulent Gardens	3
Rancho Chakeetah	3
Brigantino Ranch	3
Canyon Vista Ranch	3
Montvalmar Ranch	3
Flying Point	3
Erwin Vineyard	3
Red Eagle Farm	3
J. MACHADO RANCH	3
Clark East	3
Larry Meek	3
Gallup & Stribling Orchids LLC	3
Veronica Spring Ranch	3
Kitehawk Farm	3
Jorian Hill	3
C-Bar Vineyards	4
835 Foothill Road	4
Miyashita Nursery Inc.	4

RANCH NAME	IRRIGATED ACRES
Foxdale Farm	4
Moon Wei Tom Nursery	4
Wheelock Road ,Watsonville,ca.	4
Thompson Ranch	4
Pepperhill Ranch	4
Robins Roost	4
Beaudoin Avocados	4
bianchine brothers	4
Elias Ramirez Farms	4
Reeves Vineyard	4
La Casita Ranch	4
140 Arroyo Seco	4
J. Bond Vineyard	4
Rancho Rendezvous Farms	4
Rancho Soleado	4
Putnam Ranch	4
San Floriano Vineyard	4
Field 2	4
Paradise Christmas Tree Farm	4
Mike Pulido	4
Yano Farms, Inc.	4
Green Earth Landscape & Nursery	4
Rocking MC Ranch	4
Irish Trust	4
CENTRAL COAST GREENHOUSE	4
Santa Cruz Olive Tree Nursery, Inc.	4
Willow Creek	4
DeHaesleer Vineyard	4
Vista Lucia Farms	4
Tuscali Olive Oil	4
1A	4
Velo Vineyard	4
Luft Vineyard	4
Hinnrichs vineyards	4
Bright Spring Ranch	4
Andreoli Vineyards & Orchards	4
Han Qiang Kuang Nursery	4
Kelsey Creston Ranch	4
An Yang Chen Nursery	4
Miramonte Farms & Nursery	4
Cavanaugh Color Nursery	4
Duncan Block	4
Siu Man Chiu's Nursery	4
POMAR RIDGE OLIVE FARM	4
Nipomo	4

RANCH NAME	IRRIGATED ACRES
MONTEREY BAY NURSERY, INC.	4
Spencer Vineyard	4
Rancho Mariposa	4
Ladera Farms	4
Canyon Creek Ranch	4
ELKHORN ROAD RANCH	4
Windmill Nursery	4
gary's farm	4
Brassica Nursery	4
Bernal Greenhouse Main Ranch	4
Swanton Pacific Ranch	4
Yoshi Takahashi	4
South Pacific Orchids, Inc	4
Norman Beard	4
SHELDON ORCHARD	4
Cuatro Vientos Vineyard	4
Ohana Vineyards, LLC	4
Same	4
Rancho Bernat	4
Mesa Pines Ranch	4
Horace Lee Hillard Walnut Orchard	4
New Avenue	4
Saucelito Canyon Vineyard	4
Reifers Family Vineyard	4
Dunbarton Ranch	4
Maher	4
Tres Vientos	4
Karayannis Vineyard	4
Zhou Ping Cai	4
McClaskey Ranch	4
4120 FOOTHILL	4
Edwards Vineyard	4
Home Ranch	4
Meadowland	4
English Air Ranch	4
williams ranch	4
Roncho de los Malos Perros	4
Schu Vineyard	4
Wen He Liang Farm	4
Buenos Diaz Estates	4
Carpreef Ranch	4
Central Coast Olive Company	4
Central Coast Olive Company	4
Chia Exotic Gardens	4
Family Ranch Produce	4

RANCH NAME	IRRIGATED ACRES
Boccabella Farms Co	4
Circle B Vineyard	4
Norgrove Gardens	4
La Collina Verde	4
R.C. Manuel Farm	4
Ball FloraPlant	4
Daou Home Vineyard	4
Dogged Vine LLC	4
Shale Oak Vineyard	4
Kellner Vineyard/ Cent Anni	4
Pista Bros Orchard	4
341 Arroyo Seco	5
Wayne L. and Kathleen M. Gerhardt	5
John Wu Nursery	5
Stag Canyon Vineyard	5
HILL	5
Clearwater Color Nursery	5
Monte & Cathy Lamb Vineyard	5
Maximum Nursery Inc	5
Amivida Vineyard	5
Cruz-ess Avocado Farm	5
Evans Orchard	5
Home Ranch (Shop)	5
Watsonville Road Ranch	5
Montvalmar Ranch	5
Rancho El Paredon	5
B & G Color Nursery, Inc.	5
Madaline Vineyard	5
61 Arroyo Seco	5
Taylor Trust (12)	5
Molino Creek Farm	5
100 Arroyo Seco	5
Old Crumudgeon Vineyard	5
Freitas 93	5
salvatore schettino	5
Yanev	5
Kim Jones	5
Kim Jones	5
Kim Jones	5
Four Elements Organics	5
Jack R. Amon	5
Wind Dance Farm	5
Minami Greenhouse Inc	5
Spitzley Farm/Boulder Ridge Vineyard	5
581 Foothill Road	5

RANCH NAME	IRRIGATED ACRES
Andersen Vineyards	5
Peace Nursery	5
Creekside Apple Ranch	5
Que Sera Syrah Vineyard	5
La Loma Orchard	5
same	5
Mellow's Nursery and Farms	5
Shadow Run Vineyard and Winery	5
Bernard Acquistapace/Pianta Bella Nursery	5
Kesner Ranch	5
Yutaka Fujita	5
Lion Rock Ranch	5
Kwong Nursery	5
shun heung kwong	5
Kin Fai Chan Nursery	5
Jian Guang Liang Nursery	5
Cooper Farms	5
Ponce Produce	5
Mar Vista	5
F5	5
Furtado Ranch	5
CRESTON HILLS VINEYARD	5
Old Stage Greenhouse	5
Heublein Ranch	5
Folk's Piece	5
Harvest Moon Vineyards	5
Springfield Nursery Inc.	5
Black Diamond Ranch/Marin's Vineyard	5
San Juan Bautista	5
Garner Ranch	5
sUNSET rIDGE vINEYARDS	5
Swanton Berry Farms	5
Cinco Hermanos Ranch	5
QUAN ZHONG ZHANG	5
HAO DA FARM	5
Myriad Flowers	5
Liang's Nursery	5
Alfredo Pedroza	5
Bella Vista	5
Jeff ELings	5
Ignacio Farm	5
R bar R Ranch	5
josef Meyr	5
Hoyt Family Vineyard	5
Salinas/Potter rd.	5

RANCH NAME	IRRIGATED ACRES
Bill Filice	5
St. Hilaire Vineyard & Winery	5
Cuili Liang	5
Jonata Olives	5
Stolpman Olives	5
Da Xiong Tan Nursery	5
Duggan Vineyard	5
Norcutt Ranch	5
R-8	5
MJH Enterprises, Inc.	5
Raj Cornelious	5
Geraldine Gonzales	5
Kowaki	5
Bar D Ranch	5
Paso Allegro	5
Cravens	5
Valley Heart Ranch	5
Red Hill Ranch	5
T & A Vineyard	5
SALINAS/SPENCE RD.	5
Costa Brothers Roddick Ranch	5
La Lomita Vineyard	5
Irick Vineyard	5
Camp Six Ranch	5
Aver Family Vineyards	5
Croul Ranch	5
Dana Powers House	5
Island View Nursery Incorporated	6
Rim Rock Vineyard	6
Hunter Hill	6
Casa Milagro	6
Amesti Ranch	6
Hunt Ranch	6
ARBOR OAK VINEYARDS	6
Comstock Ranch	6
Borsody Vineyard	6
Janong USA	6
Luv-a-Duck	6
Salsipuedes Puerta Del Mar	6
Greenheart Farms Inc, Freitas Nursery	6
Cowles Ranch #1/Cowles Berry Farm	6
Spellacy Farms	6
suncoast organic farm	6
Jones Ranch	6
Robert & Alice Swaim	6

RANCH NAME	IRRIGATED ACRES
Union Road	6
mcroberts farm	6
Site #2 Goldsmith	6
Rainbow Bridge Ranch	6
Larry Philip	6
William J Freitas	6
JD Sazotti Ranch	6
no ranch or farm name	6
Hilo Chandler Ranch	6
Ranch #1	6
Hearst Ranch	6
Ball Tagawa Growers	6
Lemos Ranch	6
Evening Star Orchard	6
Via Real	6
C&S 6 acres	6
Rancho Serape	6
Abe Nursery	6
El Rancho de Juan Fiesta	6
Sweet Ranch	6
Benjamin Ramirez	6
VellaVacencia Vineyard	6
Rancho Aya/ Solari/ Coletero	6
LaBarbera Ranch	6
Llagas Ranch	6
6	6
Mccloskey nursery	6
Litchfield	6
Enos Ranch 2	6
Mirabella Vineyard	6
RANCHO SAN JUAN	6
Branch Mill Organic Farm	6
Donna Evenson	6
Gardner Ranch	6
4385 FOOTHILL	6
An Yang Chen Nursery	6
Flannery Ranch	6
Beruli Vineyard	6
Blackberries	6
SAN ANDREAS	6
Ziehl Family Trust	6
Perkins Family Trust	6
Jewel L. Dixon	6
Castle Management LLC	6
Mammini Ranch	6

RANCH NAME	IRRIGATED ACRES
776 Amesti Road	6
Santa Maria	6
Riata Oaks	6
Double H Avocado Ranch	7
RANCHO PINI RD	7
Hidden Valley	7
South Pacific Orchids, Inc	7
Williamson/Dore Vineyard	7
Alta Cresta Olive Oil Inc.	7
Francesca	7
Tiexiera Nursery	7
Jeanine's Avocado Farm	7
Sardis Hickam Jr & Martha A Hickam	7
Faith Vineyard	7
Monaco's	7
Tom Apostol	7
Hedrick Orchard	7
Van Wingerden Ranch KM	7
DW Ranch	7
RANCHO TARPEY	7
Whitney Ranch	7
Red Wing Ranch	7
29 Scurich	7
Davis Family Ranch	7
Lilydale	7
Foothill	7
Stanley Park	7
Mesa Del Sol Vineyards	7
La Casa De Maria	7
Endow Nursery	7
birch-hill organics	7
Foothill Nursery	7
Triple A Avocados	7
DEBRILEY RANCH	7
Jardini Vineyard	7
CORRAL DE TIERRA	7
linda coyle	7
Redwood Retreat Ranch	7
Casserly	7
R.C. Manuel Farms	7
Dos Ninas Vineyards	7
Godfrey Ranch	7
Byington Estate Vineyard	7
Creston Cripple Creek LLC.	7
Plateroti Vineyards	7

RANCH NAME	IRRIGATED ACRES
Finley Farms	7
AW-3730	7
Cooper family farm	7
Vital Produce	7
RIVER ROAD RANCH	7
FEATHERBOW VINEYARD	7
INGRID'S VINEYARD	7
Beruli Vineyards	7
Belletto Vineyards	7
Vigna Del Cielo Azzuro	7
Old 101 Ranch - PP	7
Heart Stone Vineyard	7
Almond Hill Vineyard	8
NAGAMINE	8
Miramar Ranch	8
Alviso Vineyard	8
Westland Floral Company Carpinteria, Inc.	8
RANCH 1	8
Dawson Creek Vineyard	8
Rose/Cowles Berry Farm	8
Schechter Vineyards	8
Yano Farms, Inc.	8
Ada's Vineyard	8
OK Avocado Ranch	8
Stoney	8
Black Opal Ranch LLC	8
Euforia Flowers	8
Ranch 13 Alexander	8
Robert Churchill Farms	8
KITAYAMA GREENHOUSE	8
PAJARO GREENHOUSES	8
Bella Collina	8
macfarms	8
Tobin James Vineyard	8
Glenrose	8
Flint Road	8
Brown Monterey Road Ranch	8
Taylor Ranch	8
55 PECKHAM	8
360 CARLTON	8
la goleta	8
Drummy Ranch	8
Meissner Farm	8
Happe Flowers	8
Vista Del Paso Vineyards	8

RANCH NAME	IRRIGATED ACRES
Freedom Ranch	8
Linn's Fruit Bin	8
BUENA VISTA/KAJIHARA	8
Aspen Enterprises	8
Beato Vineyard	8
Catarino Chavez	8
RANCH 5 PLOT 2 GRACE LANE	8
Joughin Ranch	8
Bankston Vineyards	8
Ghost Ranch	8
McCall Farm	8
Via Real Flowers	8
WELLS RANCH	8
Longo Farm	8
Sanchez Ranch	8
Butera Vineyard	8
CERVINI FARMS CALIFORNIA INC.	8
Vosti Ranch Location #12	8
The Falcone Family Vineyard	8
Justice Ranch	8
traceland	8
Grant-Creston Rd	8
Grant-White Hawk	8
A & M Farm	8
Paredon	8
Liponovich	8
#52	8
Self Family	8
Kula Vineyards	8
Mark Wyatt Ranch	8
COREY RANCH	8
Avina Vineyard	8
Edwards/Biddle	8
5424 Foothill Road LLC	8
FOOTHILL AVOS	8
Cooley	8
great farm	8
Allegretto Vineyard	8
Sargent Ranch	8
Fair Haven Avocados	8
Fernlea Nurseries Inc, Carpinteria CA	8
Mustard Creek Vineyard	8
Rankin Ranch	8
33 SCURICH ROAD	9
KITAGAWA NURSERY, INC.	9

RANCH NAME	IRRIGATED ACRES
Corey Road Ranch	9
Chateau Margene	9
REGO FARM	9
Machado Creek Vineyards	9
Zuniga Family Ranch	9
Plantel Nurseries, Inc.	9
Fujii1	9
Site #1 Bloomfield	9
Airport Ranch	9
Airport Ranch	9
GJV Patrimony	9
Ranch 1	9
Ranch 2	9
JTR Ranch	9
RANCHO LA CUCUNA	9
Grimm Farm	9
Douglas Bathe	9
Fernandez Farms	9
GreMark Vineyard	9
Antrim	9
The Ranch at Cripple Creek	9
Fisher	9
RANCH 03 (HUTCHERSON)	9
Soquel Nursery Growers, Inc.	9
Rosa Ranch	9
St. Francis Ranch	9
Fraser Ranch	9
4M vineyard	9
CREST DRIVE RANCH	9
Norman's Nursery Inc	9
Besson Vineyards Ranch 1	9
Mumper	9
Nelson Family Vineyard	9
Haber Family Farm	9
Brown Ranch	9
Bulich	9
Lindquist	9
520 Browns Valley Rd Ranch	9
Kliewer Ranch	9
Hogue Vineyards	9
Dominion Ranch	9
9 Acres	9
Williams Rd.	9
Pista	9
Salinas Transplant Company	9

RANCH NAME	IRRIGATED ACRES
TGM Vineyard	9
Damm	9
Buena Vista	10
TCR	10
WELSH RANCH	10
Alegre Vineyard	10
Schoolhouse 3B	10
Rolph Family Vineyards	10
HOME PLACE	10
Carhartt Vineyard	10
Litchfield Ranch	10
Hidden Springs Tree Farm	10
Picetti	10
Sea Crest Nursery	10
Forestieri	10
Gelfand Vineyards	10
Five Oaks Vineyard	10
La Rosa De Castilla	10
Vernon E. Marian A. Varni	10
Vallino/Radogna Vineyards	10
Landmark Ranch Properties	10
Big Basin Vineyards	10
Van Wingerden Ranch 4444	10
Nong Woo Seed America, Inc.	10
Chesebrough Farm	10
Solis winery, Inc	10
Evenson Ranch	10
Meyr Ranch	10
Estancia De Los Olivos	10
Idyll Times Vineyard	10
Cypress Hollow Ranch	10
La Cuna	10
Shun Yu Kuang	10
FAIRVIEW RANCH	10
Gerald Cigliano	10
PJ Foley Ranching	10
F2	10
SILVA	10
ALTMAN PLANTS #4	10
ALTMAN PLANTS #5	10
Five Mile Ranch	10
Highland Ranch	10
Hilltop Ranch	10
Serena Ranch	10
Green Valley Floral	10

RANCH NAME	IRRIGATED ACRES
Chismahoo Piece	10
Life's a Choke	10
Amaral Vineyards	10
Native Sons	10
Ross Orchard	10
Lynne B. Schmitz	10
Twin Palms Ranch	10
Floricultura Pacific	10
R&G Land and Cattle Co.	10
Sombrero Ranch	10
Brothers Ranch	10
Lakeside Nursery	10
Charles Morse	10
Foothill Flowers	10
Cirone Farms Morro Bay	10
Tinaquaic Vineyard	10
Regalado Berry Farm	10
Valencia Creek Farm	10
Garden Haven Nursery	10
Casitas Gardens	10
Di Gangi Vineyards	10
Godfrey Ranch	10
Home Ranch	10
RANCH 10 PLOT 1 ORCHARD ROAD`	10
Ranch 10	10
Freitas Ranch	10
Pierini Vineyard	10
avocado cathedral	10
Rancho Boa Vista	10
Avocados	10
San Miguel Olive Farm	10
Terry Binsaca Ranch - Location 07	10
Fred Harpster	10
Aaron Vineyard	10
The Groves on 41	10
KB East	10
Corralitos Ranch	10
Westland Floral Company Carpinteria, Inc.	10
Rodeo	10
Mission Vineyard	10
228 Varni Rd Ranch	10
Cortes Farm	10
Timothy and Virginia Bliss Family Trust	10
Hoyt Family Vineyard	10
J & B Investments	10

RANCH NAME	IRRIGATED ACRES
Encino Grande Ranch II	10
Avocados	10
Tooth & Nail Winery	10
Black Oak Vineyard	10
Nojoqui Vineyard	10
Ranch 5	10
CASSERLY	10
Home	10
Hector Melendez	10
Bardin	10
Test Farm	10
Green Valley - Flat	10
KP	10
Bench Vineyard	10
Inangeo Vineyard	10
Jack West	10
Cassidy	10
Melange du Rhone Vineyard	11
Ranch 2 and Ranch 2B	11
Saveria Vineyard	11
Takii Home	11
Clearwater	11
the poor farm	11
Hollister Ranch 2	11
Pista Site 12A	11
Rancho Mora	11
Pickle	11
Stoller Vineyard	11
Simpson Vineyards	11
Site 1 (6337)	11
JEFFERSON RANCH	11
Moss Lane Estates	11
BUENA VISTA/CNLLC	11
DiNapoli	11
Casserly	11
Ranch 87	11
Shadow Canyon Vineyard	11
83 Hecker Pass Rd.	11
MANRESA RANCH	11
Arroyo Del Paredon Farming	11
Madesko	11
Rucker Ranch	11
Villicana Vineyards	11
Reliz	11
ranch K1	11

RANCH NAME	IRRIGATED ACRES
Bachan Ranch	11
Palma#2	12
Steiner Creek Vineyard	12
Morro North	12
Bird Neck	12
Ranch 57	12
Bruscia	12
Harrison Clarke	12
Griffith	12
Palmo #1	12
Iglesia	12
Swift Subtropicals/Bear Creek Ranch	12
August Ridge Vineyards	12
Sundance Hills Vineyards	12
Rodriguez Ranch	12
DR Citrus Co / Dude Ranch	12
Wild Coyote Winery	12
Live Oak	12
RANCHO MAHER	12
FOREST NURSERY LOS OSOS	12
Fairview Gardens	12
Toro Canyon Nursery, Inc	12
Mari's Ranch	12
KeINik Vineyards	12
Dunning Vineyards	12
pops place farm	12
Biagini Vineyards	12
Creekside Farms	12
el cap	12
Ranch 12	12
Murphy Ranch	12
Colendich Ranch	12
Granite Rock	12
Chula Vina Vineyard	12
Shoemaker Vineyard	12
Jimenez Nursery	12
Green Valley	12
DSA	12
Harry a Giretti Farm	12
Calabassas	12
Netto Rance	12
gopher glenn	12
Marlowe	12
Creston Hills	12
Crabtree Ranch	12

RANCH NAME	IRRIGATED ACRES
BEACH STREET RANCH	12
Riverside	12
Norris Organic Walnuts	12
Vincent Farm	12
SAN JUAN RD.	12
MINTO	12
Kono Brothers	12
McGinnis Ranch, LLC	12
Maridon	12
Clark- Ranch 4 (Global ID: 020009142)	12
Penman Springs	12
R.E. Summers Ranch	12
VOGEL RANCH	12
pasquini ranch	13
Clark Ranch	13
stan giorgi	13
Augusta B. Lord Trust Property	13
Ranch 7	13
Castroville	13
Aubaine Vineyard	13
FURLONG	13
Rosewater	13
Admiral	13
Home	13
Rideau Vineyard	13
Wenzlau Vineyard	13
Promesa Ranch	13
Shoestring Winery and Vineyard llc	13
Ranch 2	13
Mather Ranch	13
Marsalisis Organics	13
Elder Vineyard	13
Condor Ridge	13
Gary Philbrick	13
CE Farm	13
Miller Merritt Trust Carpinteria	13
BARNARD RANCH	13
caparone	13
Amaral Ranch	13
Yamamoto	13
Tony Gaoiran	13
Muns Vineyard	13
HOME RANCH	13
1170 San Marcos	13
Oak Pass Vineyard	13

RANCH NAME	IRRIGATED ACRES
Sterling Diamond	13
Loma Bonita ranch	13
Randy San Miguel	13
PINOT CADO	13
SANTOS RANCH	13
Chak - New Ave	13
HALL RANCH	13
Flewell	13
Deerfield - Hidden Valley	13
Nagengast Estate Vineyard	13
Lazy L Ranch	13
Bartal Ranch	13
Gallup & Stribling Orchids LLC	13
Plantel Nurseries, Inc. Garey	13
Thomas Fogarty Vineyard South	13
Betteravia Investment (23)	13
Chelle Mountain Vineyard	14
Encinal 2	14
Strawridge Vineyard	14
Casserly Ranch	14
Viva Farms, Nipomo	14
Donald & Elaine Witmer	14
Hidden Valley Vineyard	14
Valhalla Vineyards	14
Hildago Ranch	14
VMA Ranch	14
Margaret's Vineyard	14
Alan Eto	14
Dry Creek Ranch Vineyard	14
Nursery - Ranch	14
Graveyard Vineyards	14
Marfia	14
1040 N. Thompson	14
McCord	14
Rock Hollow Vineyard	14
st athanasius church	14
Greentree Farm	14
Los Berros Ranch	14
Zupan	14
Varga Ranch	14
Sherrie	14
Norman's Nursery Inc	14
Vineyard Canyon Olive Ranch	14
Westland Floral Company Carpinteria, Inc.	14
Dolan Ranch	14

RANCH NAME	IRRIGATED ACRES
Grizdich Ranch	14
Grosso x Kresser Vineyard	14
KamRidge Vineyard LLC.	14
BILLY BOB ORCHARDS	14
Crabtree	14
Ranch 21	14
Vahali Estates Vineyards	14
KENNEDY RANCH	14
6640 Holsclaw Road	14
LAS LOMITAS RANCH	14
Krisyn Vineyard	14
DJD Patrimony	14
Ranch 2 (Ichidai)	15
Ranch 2 - Monighetti	15
David Bruce Winery Estate Vineyard	15
Banovac	15
Hackman	15
Pelio	15
Ardillas	15
Tom Moller's Vineyard, sometimes called Mo	15
Woodland Management Vineyard	15
Home Ranch	15
Ranch10 Apache	15
Janes Ranch Vineyards, Inc.	15
Mannstand Vineyard	15
Nona Vineyards	15
Wats	15
Windward Vineyard	15
Hann	15
Deer Park Vineyard	15
Loma Linda Vineyards LLC	15
Smith Gardens	15
Daniel Rosenbaum	15
Seminis Pacific Coast Breeding Station	15
SPRING FIELD RANCH	15
Del Prado Cattle Co.	15
1850 Stallion Vineyard	15
Via Vega Vineyard	15
RANCHO ROAD RANCH	15
Masoni Ranch #2	15
Buena Vista Ranch	15
7th Heaven	15
Rose Story Farm	15
Younger	15
Lau Ranch	15

RANCH NAME	IRRIGATED ACRES
Kessler Ranch	15
Gera Harding	15
Fitzgerlad & Santa Teresa behind Fruitstand	15
George Carminati Ranch	15
Andy Poteete	15
Vasquez Farms	15
Green Valley	15
Jian Hui Cao	15
Sukhy's House	15
Kiler Ridge Olive Farm	15
CASHEN RANCH (Christopher Ranch LLC)	15
Bailard Boys Farm, LLC	15
Nipomo #5	15
Rosavo Ranch	15
MBA	15
Leon Chen Vineyard	15
Angelino Ranch	15
Vaquero Vines	15
RG Ranch 8	15
CHERRY BLOSSOM	15
Hecker Pass	15
Coward	15
watertank	15
Morales	15
Bourdet Ranch	15
Ranch #2	15
Sutter Home Winery Vineyard	15
Diamond T Vineyard	15
Cayetano Organic	15
Bella Vista Vineyards	15
Rancho Sin Frenos	15
Fuji	15
Hidden Valley	15
McGowan Mills	16
McGowan - JY	16
BELLA VISTA VINEYARD	16
FREEDOM GREENHOUSES	16
Freitas	16
ROBLAR VINEYARD	16
Boekenoogen Vineyard Bell Ranch	16
GEORIS VINEYARD	16
Bailard Avocado LLC	16
Cate Ranch	16
Arroyo Grande Research Station	16
Morris	16

RANCH NAME	IRRIGATED ACRES
Nursery	16
Ranch 4	16
Kuso Ranch	16
Gillie Orchards, LLC (used to be Thor)	16
Blackjack Ranch Vineyard	16
Fralich Vineyard and Winery	16
SCHNEIDER	16
UCSC Farm (CASFS)	16
Galarneau Walnuts	16
RANCH 7 PLOT ORCHARD RD.	16
Olive Ranch	16
Hirano Ranch	16
Riverside Ranch	16
Lewis Road Ranch	16
Los Berros Organic	16
thurip	16
2139 Elkhorn Road	16
Cuesta Dulce Vineyard	16
Organic Eucalyptus	16
Nishimatsu	16
Grimm Vineyard	16
Fuji Lane Ranch	16
Prunedale Road	16
El Pomar Vineyards	16
Webster Vineyard	17
Bello Ranch	17
Arroyo Grande	17
Ranch 5	17
Las Palmalitas Ranch	17
Maloney Vineyard	17
Blazer	17
Taylor (11)	17
DELUCCHI RANCH	17
Jensen 51.38	17
Rusack Vineyard	17
Beckwith Vineyards	17
Brohelle Vineyards	17
Q Ranch	17
OSO LIBRE RANCH & VINEYARD	17
Home ranch and greenhouses	17
Lucy M. Walsh	17
Mosby Vineyad	17
windmill ranch	17
Erden & Kann	17
Steve & Barbara Erden	17

RANCH NAME	IRRIGATED ACRES
Terry Hoage Vineyards	17
Newell Vineyards	17
Ranch 13	17
Frumveller	17
dump ranch	17
PEREZ FARMS	17
Montealban Farms	17
Cassin Ranch	17
sarah's vineyard	17
barberi	17
Dewlson Farm	17
GILROY RANCH	17
Simon 1	17
Ladd Lane Ranch	17
Dewlson Farm - Row	17
Settrini (ORGANIC)	17
Bobby Jo Osburn	17
MARSH RD.	17
Settrini (Organic)	17
Flannery Ranch 2	17
Jane F Bianchin	17
BUENA VISTA RANCH	17
Ranch 4 Buellton Organic	17
Rotta Vineyard	17
Willow Creek Vineyard	17
Hamish Vineyard	17
Sargent Add'l	17
Kerrigan Ranch	17
Smith Ranch	17
ELLIOT LEWICKI RANCH & VINEYARD	18
Tate Ranch	18
Dove Pond Vineyards	18
LUEN MILLER & MANUEL J MORALES	18
Biddle Ranch	18
Tedd Livingston Gwin	18
Calcareous Vineyard	18
Aira Ranch	18
SAN ANDREAS RANCH	18
Santa Maria Cemetary Ranch 2	18
Old School House Vineyard	18
Encinal 1	18
GV 10	18
Richard S Castile	18
Tomatillo	18
Guerra Ranch	18

RANCH NAME	IRRIGATED ACRES
San Jose Ranch	18
John D Rarig Ranch	18
Delk Ranch	18
Headstart Nursery	18
Van Wingerden Ranch Baba 2	18
Gubser Ranch	18
133 SCURICH ROAD	18
306 CARLTON	18
Estrella Farms	18
SCURICH	18
Caliza Vineyard / Anderson Road	18
Brisas Costeras	18
Varni Site 11A	18
Kazuka	18
Sherrod	18
RAK Farm LLC	18
Zoo to you	18
Young Vineyard	18
San Martin & Colony	18
Home Ranch	18
R.C. Manuel Farms	18
Dawn Ranch	18
Ranch 67	18
FLINT RANCH (Christopher Ranch LLC)	18
Fernandez	18
long hill vineyard	18
BAMFORD RANCH	18
Borns Ranch	18
RPC Gambetta Ranch	18
Triangle S Ranch	18
Rosa Morada Orchard (hudner)	18
Rosa Ranch	18
JACKS BLK 6/8A	18
Wine Bush	18
Colonial Green Trust	18
Violini Home Ranch	18
OTA RANCH	18
PSI Green Valley Ranch	18
Freitas 20	18
Nguyen - Las Animas Ranch	18
Shepard Inn Ranch	19
Blue Heron Farms	19
Westland Orchids and Produce	19
Honea Vineyard	19
Madonna Ranch	19

RANCH NAME	IRRIGATED ACRES
Radin Site 6A	19
San Juan Oaks	19
Lindstrand Ranch	19
Passion Ranch	19
Mt. Carmel	19
Nelson Ranch	19
Watch Hill Vineyard	19
Pajaro Valley Ranch	19
Forbidden Fruit Orchards, Inc.	19
Holman Ranch LLC	19
Dragon Spring Farm	19
bassetti vineyards	19
Marinovich	19
SJBG	19
BUENA VISTA RANCH	19
Kingsley Vineyard	19
William Kimsey	19
Greenheart Farms Inc, Arroyo Grande	19
Steve and Jackie Gleason	19
Kono & Sons, Inc.	19
Dana Powers House 2	19
DeCarli Ranch	19
Las Amimas	19
GOFF RANCH (Christopher Ranch LLC)	19
5860 SANTA ROSA CREEK ROAD	19
1020 Ranch	19
HILLTOP RANCH	19
Pacheco Pass	19
Evening Star Vineyard	19
Winter Fruit LLC	19
Bluff Organic	19
Carroll Ranch	19
Down Home Ranches	20
Ramos Ranch	20
Great Oaks Vineyard	20
Gordon	20
Mann	20
Gordon Jones	20
DeLay Ranch	20
Sunspot	20
Stephens Ranch	20
Bozo/Fields	20
3050 Foothill Ranch LLC	20
Wine-Bush Vineyards	20
Bill Jurveich	20

RANCH NAME	IRRIGATED ACRES
HALCYON VINEYARDS	20
pezzini farms	20
Panziera Brothers Vineyard	20
McGourty Vineyards LLC	20
Mitchella	20
Morro Bay	20
BUCHWALD	20
PAVLEY	20
CROWN	20
McCahon Floral	20
ALTMAN PLANTS #2	20
Color Spot Yard 2 - Ninomiya	20
Speedling, Inc	20
Hansen Vineyards	20
Pinehill Piece	20
Corralitos Ranch	20
Borba Farms	20
Quinta Del Mar Ranch	20
LOCKWOOD VINEYARDS	20
Ranch 5	20
B & H Flowers, Inc.	20
Skow Vineyard	20
Besson Vineyards Ranch 2	20
Ivancovich Family Orchards	20
Coslett Ranch	20
San Antonio Valley Vineyards	20
Battaglia Ranch	20
10	20
39	20
Dominion Ranch	20
Ranch 8	20
Rancho Oso Cazador	20
Potter	20
CHENG RANCH	20
bewley vineyard	20
Rancho Tecolote	20
prevetich	20
Rotta Winery	20
Lukrich Ranch	20
San Luis Obispo City Farm	20
Tarp Middle Ranch	20
Farris	20
Weatherly	20
Rancho Corralitos	20
Buksa	20

RANCH NAME	IRRIGATED ACRES
Kett	20
Fly	20
Rancho Richardson	20
Jensen	20
Ocean Front Farms Ranch 9	20
Ranch 7 North	20
BV2620/24	20
Apricotking Orchards Gonzales Orchards	20
755 East HWY 246	20
O2000101	20
WJ Jensen	20
ranch 2	20
Pretty Penny Vineyard	20
J Dusi	20
Bliss Lands	20
Los Compadres	20
Fagundes	20
Murphy Ranch	20
Pezzini Ranch	20
Los Primos Ranch	20
Ranch 9	20
Pervetich Ranch	20
bob filice farms	20
STOWELL RANCH	20
Sunlight Flowers	20
Lopez Produce	20
3 Way Vineyards	20
Ranch 9	20
Russell	21
San Marcos Growers	21
Junction Ranch	21
Ranch 18 Reynolds	21
Belli Acres	21
C&M Nursery	21
Angelo P. Granaroli, Inc.	21
Home Ranch	21
Zanier Ranch	21
Emerald hills Vineyard	21
Palmas	21
RANCH 5 PLOT 1 BETW. GRACE LANE&ORCHA	21
Olivers Twist Vineyard	21
Peaceful Valley Ranch	21
Denner Adelaide Vineyard	21
Shore Orchard	21
Tarp East	21

RANCH NAME	IRRIGATED ACRES
Rockinnee Ranch	21
Smith	21
Corral Ranch	21
York Mountain	21
WAUGAMAN	21
Siri Ranch	21
Hilliard Bruce Vineyard	21
Chaparral Vineyard	21
Johnson	22
Roblar Vineyard	22
GAR03	22
Windy Hill Vineyard	22
Sauret Vineyards	22
California Pajarosa	22
Goldsmith	22
James Vineyard	22
Mosby Winery	22
Fuchiwaki Ranch	22
Holloway's Farm	22
Eureka Ranchos Vineyard - Kopack	22
Park	22
Barnard Ranch	22
Sweeney BIDDLE RANCH (801)	22
Riley BIDDLE RANCH (401)	22
Maino BIDDLE RANCH (501)	22
Arbor Creek Vineyard	22
Fegolio	22
Rancho Encino Vineyard	22
Priesker Ranch	22
Sanfilippo Ranch, LLC	22
Valley Flowers	22
RANCH 1	22
Perino	22
Kajihara Ranch	22
Mary Flavan/Flav-R-Mor Farm	22
MJ Fronty	22
MILIAS RANCH	22
Sanger Ranch	22
Kobara Ranch	22
Berry Horton Ranch	22
Home Ranch	22
Chesbro	22
Seaview Ranch	22
Bog SLO	22
Paradise	22

RANCH NAME	IRRIGATED ACRES
John Silva Vineyard	22
Deleon Ranch	22
Harney	22
Algunas Dias Vineyards	23
Kimsey Vineyard	23
El Campo Ranch	23
Fukagawa Farm	23
Mustang Springs	23
Higaki Ranch	23
Matthews	23
Lock Vineyard	23
Haslett Thomsen Property	23
Charlies Ranch	23
Figuroa Farms	23
Iadd	23
John vineyard	23
Elmerick	23
Seven Angles	23
Ranch 7	23
Wilkensen	23
Beach #5	23
O'Connell	23
BASKE RANCH	23
Mc Grath	23
Jerenich Site 7A	23
Hackman	23
battaglia ranch	24
BERTERO RANCH (Christopher Ranch LLC)	24
Ampelos Cellars Vineyard	24
Hollywood (66)	24
Petes Upper	24
Susan Lyon	24
Galante Vineyards	24
California Tropics	24
Sunnynoll Christie Vineyard	24
Lewis Biddle Ranch (901)	24
Mann Ranch	24
Corralitos Ranch	24
Catlin Ranch	24
Old Bolsa	24
Cienega Vineyard	24
Avila Valley Barn	24
Shikuma	24
Silva Ranch	24
Brothers	24

RANCH NAME	IRRIGATED ACRES
Imazio ranch	24
Shikuma Ranch	24
Rh. 29-31 Donato-Ruth-Victor	24
Chular	24
43 Ranch Olive Oil	24
Indian Valley	24
Beeswax Vineyard	24
Holohan Site 1A	25
Spring Creek Vineyard	25
Mill Rd	25
Refugio Ranch	25
Temple (4)	25
Del Giorgio Ranch	25
Ranch 4	25
Vucovich	25
Dos Pasos Ranch	25
05 San Felicia/Ron's	25
La Familia Ranch	25
Silvera Ranch	25
Duncan Ranch	25
Lucy Chang Farm	25
Lincourt	25
Paul Madonna	25
Turri Ranch Parcel 1 & 2	25
Ranch 3 W	25
Fairview	25
Gumtree	25
twin oaks vineyard	25
Oak Savanna Vineyard	25
Milar Ranch	25
SUNSTONE VINEYARDS & WINERY, INC	25
RAINBOW VINEYARD	25
Bettencourt	25
CREWS RANCH	25
Ranch 8	25
BRAGG Live Food Products, Inc.	25
Rancho Colina Norte	25
MERIDIAN RANCH	25
Donnachadh Vineyard	25
Guerra Vineyards and Groves	25
King Ranch	25
NORTH WILEY	25
Balich	25
156 Ranch - Organic	25
Templeton Ranch	25

RANCH NAME	IRRIGATED ACRES
Ranch 16	25
King Ranch	25
Rodriguez Fowler Ranch	25
Kiler Canyon Vineyard	25
Jafroodi Properties	25
R-40	25
NORTON BLOCK 4	25
MBK @ S & B	25
Hatano Ranch	25
Olympia Orchard	25
14th & Walnut Ave	26
Home Ranch	26
Cowles Ranch #2/Cowles Berry Farm	26
Twin Fawns Vineyard	26
6060 La Goleta LLC.	26
PRESTON FARMS	26
AZEVEDO RANCH	26
international floral	26
Buena Vista Ranch	26
Premium Pistachio LLC	26
Banovac	26
Yuste Ranch	26
Tichenor Avocado	26
RANCH 6 PLOT 1 MESA RD.	26
BUENA VISTA RANCH	26
Alta Vista Ranch	26
Duvarita	26
Blohm	26
Hambey Ranch	26
Ranch 3	26
Harney	26
34- Ball	26
Wiley Ranch	26
Pear Valley	27
Clark Ave.	27
Ranch 5	27
Caswell Ranch	27
Tanner Berry	27
White Farms	27
RIDER-HOME	27
Color Spot Yard 3 - Monterey Rose	27
Maria Ygnacia Ranch	27
Shinta Kawahara Company Incorporated	27
Milias	27
Windrose Farm	27

RANCH NAME	IRRIGATED ACRES
INNOVATIVE PRODUCE, INC. / RANCH 08	27
Botta Ranch	27
Chang	27
Iafond Vineyard south	27
Boysen Ranch	27
Ranch 4 GG01	27
Jacks BLK 4/5 Home BLK 1	27
Jeanne Staben	27
Rocky Road Ranch	27
Wikstrom	27
Andy's Orchard	28
Pavlovich	28
Landmark Ranch Properties	28
St. Peter of Alcantara Vineyards	28
Rancho de Voladores Vineyard, LLC	28
Halcyon	28
Harvey Vineyards	28
BRAYCOVICH	28
None	28
Amesti Ranch	28
Rogge Ranch	28
Rio Seco Vineyard & Winery	28
Ring	28
Ranch 2	28
Mccloskey carp	28
Israel Zepeda Farms	28
Nishimura 2	28
denice home ranch [al's]	28
Chisan Orchids Nursery, Inc.	28
Midnight Cellars, INC.	28
Allen Ranch	28
Aguajitos Ranch	28
Chap Foster (The Farm)	28
Amesti Ranch	28
Nipomo #4 - Church	28
Parrish Adelaida	28
Gerber	28
wild oaks	28
PINI RANCH	28
Home	28
Al Bonturi	28
Nuttall Ranch	28
Nuttal Ranch	28
Hicks Ranch	28
Matthews	28

RANCH NAME	IRRIGATED ACRES
Pioneer Ranch	29
MICHAUD VINEYARD	29
Ferry Morse	29
Rosemary Vineyard	29
Ring	29
BOGLE RANCH	29
Uyeda Farm	29
Office Ranch	29
Kett Ranch	29
Ranch 4M	29
PASO WESTSIDE VINEYARDS	29
Peckam Ranch	29
Benevento Orchard	29
No. 101 - Blks 6A - 6E	29
Sainz	29
RG Ranch 18	29
Catapult Vineyard	29
Balestra 2a, 3, 5	29
Spence Ranch Fudenna	29
Betteravia Ranches (36,91)	29
Hackman Railroad	29
Clos Pepe Vineyards	29
Freedom	29
Brecon Estate inc	30
Church Ranch	30
Lanini Ranch	30
Toro	30
Sambrailo	30
Braycovich Site 4A	30
Cox	30
Encell Vineyard	30
Curtiss Kennon	30
Exotic African Flora LLC.	30
Lago Farms 1	30
C & P	30
Jorge's Farm	30
Flocken	30
Kessler-Haak Vineyard (formerly Ovation Vine	30
Paso Ono Vineyard	30
Hollandia Produce, LLC	30
pozo valley vineyards	30
Okui Farms Ranch 2	30
San Ardo Sue	30
Joullian Vineyards	30
F7	30

RANCH NAME	IRRIGATED ACRES
Ranch #14 - Plot 07	30
MORESCO	30
CASSERLY	30
Fiscalini Ranch	30
Old Creek Ranch	30
Marchini Ranch	30
Redman Ranch	30
Orchids Royale	30
Ranch 6	30
Carlton Ranch	30
Pavlovich Ranch	30
Morro Canyon Ranch	30
Estrella River Vineyards	30
Doce Robles Winery & Vineyard	30
Hawkins/Frates Ranch	30
Pepper Tree Ranch	30
reliz ranch 5	30
Morro Bay Ranch Lt.	30
Twist Ranch	30
Sargenti/Ryan	30
Condor Ridge Ranch/Bloomingtondale	30
Sargenti Ranch	30
Martin Ranch	30
Gera Rucker	30
Banovac Ranch	30
Aromas Ranch	30
Domingo Farms	30
Nakamura Ranch	30
9	30
Argyle Vineyard	30
Bassi Ranch	30
Home Ranch	30
Ranch#12 AB Turri (block)	30
HR-E	30
Ranch 9	30
Chiala Ranch	30
Sakata Salinas Research Station	30
creekside	30
Home Ranch	30
Peake Ranch	30
699 San Miguel	30
Mayeda parcel# 046-15-106	30
Ray Road Ranch	30
ranch 42 Bradley Organic	30
Organic 16	30

RANCH NAME	IRRIGATED ACRES
KOLANU VINEYARDS	30
Thompson-Salinas	30
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RIDER	33
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peter miller	35
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Brayden's Vineyard	35
Tefft St	35
Marcella	35
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Ramer	36
Andaluz Ranch	36
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WANG	36
Grass	37
Kalich Orchard	37
Abe Ranch	37
San Jon - Potter	37
Cottonwood Canyon Vineyard	37
Star Farms	37
Rancho Rio Conejo	37
Yamanishi Ranch	37
Madesko	37
Parrish Vineyards	37
clay ranch	37

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Regan Vineyards	37
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Riverside Ranch	37
Ranch 18	37
Lafond Vineyards Burning Creek	37
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Capitanich	37
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Jensen Ranch	37
Ranch 24	37
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720 ward drive	38
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Ranch 25	38
Ackerman Vineyards-Tower Oaks Vineyard	38
5 COHANSEY	38
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Bronson ranch	38
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Amigo Ranch	38
Lieff Ranch	38
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Hansen Road	38
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Pioneer	38
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RANCH NAME	IRRIGATED ACRES
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Ranch 1	39
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Stella Ranch	39
Teaspoon Ranch	39
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Storm	39
Sherwood Ranch	39
Soberanes	39
ENVAR	39
Kruse Vineyards	40
Messori Ranch	40
Ranch 5	40
Burnett Ranch	40
Peterson	40
Dusi Vineyards	40
Upper Binsacca	40
Dal Pozzo Ranch	40
Locatelli Vineyards	40
Home Ranch	40
Whale Rock Ranch	40
Cranford	40
Erwin Farms & Nursery, Inc.	40
Summit	40
OLD STORE	40
GULLO RANCH	40
RANCH 19 (SINCLAIR)	40

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Ranch #10 - Branin	40
VASQUEZ RANCH	40
Edalatpour Ranch	40
Li Fong Farm	40
Ing Estates Vineyard	40
Casagrande Vineyards	40
Ron Tremper	40
Dunbarton Ranch	40
1330 BUENA VISTA	40
SAN MIGUEL VINEYARDS	40
The Stepladder Ranch	40
John Smith Vineyard	40
Robba Ranch	40
Bianchi Winery	40
Faurot ranch LLC	40
same	40
OLD STAGE RANCH	40
BONITA RANCH	40
Freedom Ranch	40
La Palma Farms Inc.	40
Blosser Ranch	40
mur Trang	40
Millen	40
PETERSON-FURTADO RANCH (Christopher Ra	40
Kosmo Ranch 2	40
Castello	40
Triple H. Farms	40
13	40
Riverside (Dryden)	40
Riverside Ranch	40
Blosser Ranch	40
Elkhorn Ranch	40
Ollason Ranch	40
21 / Mahony Organic	40
CCSH Farms	40
Ann Buck	40
Dr. Cheng	40
Stella Ranch	40
Lions Peak Vineyard	40
Moranda Ranch	40
Oakview	40
Kelly Home	40
Ranch 25 / Bull Canyon	40
Jett	40

RANCH NAME	IRRIGATED ACRES
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Sheehy	40
Koue Ranch	41
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ranch 4/ Machado	41
Kirigin Cellars	41
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Beilby Ranch	41
Wiley Ranch	41
Flynn Ranch	41
Lazy F Vineyard	41
Conde Farm	41
Alisos Vineyard	41
Stolich	41
Ranch 1 Kodiak	41
Briarwood Vineyards	41
R-32	41
GV 5	41
Riverside	41
Ranch 3	42
Ranch 27 - Sobhani	42
Kalich Ranch	42
McGrath-Dorothy	42
san marcos creek vineyards	42
Suncrest and Sunwest	42
Cripple Creek Vineyard	42
Buena Vista Ranch	42
Mauracher Ranch Corporation	42
Miller Merritt Trust Santa Rosa Road	42
Ranch 3E	42
SILACCI	42
Tablas Creek Vineyard	42
Ranch 1	42
Moretti Canyon Vineyard	42
CEBADA CANYON ROAD	42
5 - McKinsey	42
Billita	42
M. Hill - H. Bellone	42
El Paraiso	42
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Gibson	43
Eagle Ridge Winery	43
Hess Ranch	43
Sullivan Ranch	43
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RANCH NAME	IRRIGATED ACRES
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George Dana	43
Wild Horse Vineyard	43
Cobblestone Vineyard	43
LITTLE RANCH	43
Lewis Ranch	43
Sea-Bar Nursery	43
yuk lun loo	43
Gilman	43
Hwy 25	43
Murphy	43
GAR01	43
Pista	43
Green House Ranch	43
Hartnell	43
El Jabali	43
GV 12	43
Shultz	43
School	43
Home Ranch	44
Gainey Ezperanza	44
Brinan Ranch	44
Violini Ranch	44
Canyon Ranch	44
bassetti ranch 8	44
Quinn Vineyards West	44
Clautiere Vineyard	44
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Eiskamp	44
RANCH 07	44
Morrison North	44
Pasquini Ranch 1	44
Portico Hills	44
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Luchessa Ave - Filice	44
Diac Ranch	44
E&J Gallo	44
Gordon	45
Tjerrild Ranch	45
Old Stage Ranch	45
Rancho Arroyo Perdido	45
Mine	45
Goulart Ranch	45

RANCH NAME	IRRIGATED ACRES
Paraiso Ranch	45
Seaward Ranch	45
VOSTI HIGASHI	45
Dorcich Farms	45
Hoyts	45
Burbank Ranch in Templeton	45
Cunha Ranch	45
Pierce Ranch Vineyards	45
Jensen	45
Crowley	45
denice farms [ben,s]	45
Booker Vineyards	45
Shasta Ranch	45
filice	45
HR-W	45
Lucky Strike	45
Azavedo	45
Ranch 11	45
Hutchings Ireland GRP	45
Sheehy	45
Hayashi Morro Bay Ranch	45
Stolich	45
Shandon - Judd	45
Tsukiji Site 8A	45
PR 19	45
Weaver	45
CARR RANCH	46
Felice Ranch	46
Evans Ranch	46
Villa Pacifica Ranch	46
GALVAN RANCH	46
Ranch 7	46
Buttonwood Farm	46
Felice Valle Vineyards	46
Mesa Rd North	46
Heart Hill Vineyard	46
Conlan Ranch	46
PAGANO RANCH (Christopher Ranch LLC)	46
Claxton Agro	46
Tunnel	46
Beach 1 & 2	46
Pura Ranch 2	46
Beach	46
Sheehy Ranch	46
Airport Ranch	46

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PECK/FLYNN RANCH	47
Alisos Ranch	47
anderson	47
Nojoqui Creek Farms	47
Bassetti Ranch	47
Ranch 6 N	47
Ranch 1	47
Ranch 12	47
Minto	47
MBA /Bunker Hill	47
Johannes Flowers	47
Poulsen Ranch	47
dunlap	47
R-3	47
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Wineman	47
Fagundes Ranch	47
Violini Ranch	47
EZ1 Vineyard	47
Home Ranch	47
Le Vigne Winery & Vineyards	48
HOLLISTER RANCH WALNUT 2A	48
Thompson	48
Alsop Ranch	48
Bailard Citrus Co LLC	48
Albright	48
Lights	48
lewis	48
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Ranch 9	48
Fagundes Ranch	48
Griffith Ranch	48
Orchard Ranch04	48
ROYAL RANCH	48
Struby	48
Big Red Vineyard	48
Arciero Home Vineyard	48
Site #1 Bloomfield	49
Santa Maria Ranch	49
Enemark	49
Wait	49

RANCH NAME	IRRIGATED ACRES
Vosti Ranch	49
Mardesich	49
Madison Cellars	49
Envar	49
Murphy Crossing	49
Green Valley	49
Stolich	49
Pennington Ranch	49
Okui (42)	50
Russell trees	50
Kitayama	50
toro creek ranch	50
Blanco	50
Casillas Home Ranch	50
3695 Mill Road	50
Live Oak Bazzi Family Ranch	50
Wade Rhoades	50
BORELLO FARMS	50
Rancho Encantado/Shea	50
Sportspark	50
Mesa Rd South	50
Roberts ranch	50
vanderberry vineyards	50
Mt. Olive	50
Finney Vineyard	50
Lukrich Ranch	50
Rancho de las Roca	50
Sea Shell Cellars	50
YOSHIDA	50
3 Way Ranch	50
Paulsen Ranch	50
Buena Vista Ranch	50
SHOKRIAN VINEYARD AT CAT CANYON	50
Nagareda NA01	50
High School Ranch	50
Pex Ranch	50
Test New Farm	50
Packard	50
Romie Ranch 9	50
DeSerpa 12	50
Sutti 16	50
Mortensen	50
Finney Ranch	50
Thompson	51
Thompson Ranch	51

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T&A Wynne	51
Pali Vineyard	51
Vineyard Library #3	51
Ranch 9	51
Nagareda	51
Hollister Ranch #4	52
Gary's Vineyard	52
FLATS	52
kick on vineyard	52
R. E. Hall Carpinteria, Inc	52
Apache 21	52
Emilio Guglielmo Winery Inc	52
Ranch 1	52
Alamo Farming / Ranch #5	52
Felipe	52
Ranch 4	52
Home Ranch	52
BLOSSER RANCH	52
Las Animas, Yamanie	52
KAISER	52
B&D Farms Ranch 6	52
Tobias	52
Anderson Ranch	52
Kalich Ranch	53
Gainey Evan Ranch	53
Clos LaChance Cordevalle Estates Vineyards	53
SALINAS HILLTOP	53
Frietas	53
Moss Lane Vineyard	53
PR 18	53
Buena Vista	53
Bianco Ranch	53
Hess Ranch	54
Maino	54
Loveless	54
Mc Grath	54
Colina	54
West Pinnicales Vineyard	54
Gularte Orchards	54
Wells Ranch	54
Kirkpatrick Orchard	54
Alamo Farming / Ranch #4	54
Lakeview Ranch	54
Basor	54
River Ranch	54

RANCH NAME	IRRIGATED ACRES
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Piearcy Ranch Organic	55
Ranch 30 DeDampierre	55
GV 3	55
B&E Vineyard	55
RDH Esperanza	55
Daou Mountain Vineyard	55
pacific organics Inc.	55
Le Bon Climat	55
KETT	55
Ranch #1 - Dohi Ranch	55
Skilicorn Ranch	55
Home Ranch	55
Bertuccio Orchard	55
Panziera Ranch	55
Cedar Lane Vineyard	55
Duncan	55
castro valley	55
carnadero	55
A.P. Farms Muther Ranch	55
McCall	55
R-1	55
FAT CITY RANCH	55
Victor Schaff	55
Daou Vineyards and Winery	55
Mondelli Ranch	55
Sunset/San Andreas Ranch	55
Ranch 1	55
GREENFIELD RANCH	56
Santa Maria Way	56
Sandpiper North 1B	56
Barr Creekside Vineyard, LLC	56
Linneman Ranch 06	56
Ranch 15 Sloan	56
Oak Creek Apple Ranch	56
Struve ML	56
HOLLAND AMERICA FLOWERS	56
KICK ON VINEYARDS	56
Ranch 2	56
SCHOOL HOUSE	56
36	56
William J. Munzer Family Irrevocable Trust	56
Preisker 2	56
15	56
RG Ranch 27	56

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E&M (10)	57
CHURCH	57
Ranch 12 Marx	57
Pine Hawk Vineyards	57
Ranch 14	57
Machado	57
Salaal Vineyard	57
judd,hirahara	57
Quattrin	57
GEARY LYONS	57
Vaughan Home Ranch	58
Dudgeon Ranch	58
Casacca Ranch	58
Riverstar Ranch & Vineyards, Inc.	58
Silva Home Ranch	58
Ranch 4	58
Kane Ranch	58
Galvin/Delehanty Ranch	58
Stephan Vineyards, Inc.	58
Murphy	58
Happy Canyon Vineyard	58
Pasco Ranch	58
Union Road	58
ranch 5/ Sunnybrook	58
chinn ranch	58
Rianda Vineyard Ranch	58
PR 11	59
Frolli Ranch	59
Waller (9)	59
Sierra Mar	59
GLUHAICH RANCH	59
James Ranch	59
Jacop	59
Browns Valley Ranch	59
Bloomfield	59
Javadi - Cat 2	59
Zanella	59
Curtis	59
Roger Righetti Ranch	59
Chappel Ranch	59
McCoy Ranch	60
Gibbs 2 Vineyard	60
Still Waters Vineyards	60
EM JAG C Corp	60
Gilroy Young Plants	60

RANCH NAME	IRRIGATED ACRES
Jensen	60
Crowther Ranch	60
Ranch 7	60
Site 1	60
Site 2	60
Ranch 1	60
Moresco	60
Saunders Vineyard	60
Ranch 5	60
Tom Mora Ranches	60
RIVER RANCH	60
La Palma Farms Inc.	60
Taylor/Siva (7)	60
RANCH 17 (WINEMAN)	60
RANCH 06 (COYOTE)	60
Haggerty Way	60
thomas	60
RANCH 27 (ADAMS)	60
RIVER Ranch 03	60
Perkins West	60
Butier & Bulich Bros.	60
La Paloma Ranch LLC	60
River Ranch	60
bokariza	60
RIVER RANCH	60
mine	60
Lee	60
COOP RANCH	60
Flying F Ranch	60
Kennedy Ranch	60
Judd & J&J Cellars	60
Escolle Home Ranch	60
Ranch 7-Alamo Creek/Slo County	60
Daou Vineyards	60
Simon	60
Franklin (8)	61
Acquistapace	61
Meyer	61
Kennedy	61
Tierra Alta Vineyard	61
Color Spot Yard 1	61
New Ranch	61
MARTIN	61
La Reina	61
Spreckels Ranch	61

RANCH NAME	IRRIGATED ACRES
Cartan Ranch	61
Buena Vista	61
Loma Linda Vineyard	61
Vierra Ranch	61
La Reina	61
Donovan Ranch	62
Home Ranch	62
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Cassidy Ranch	62
FLY RANCH (Christopher Ranch LLC)	62
Ranch #6	62
Morrison South	62
Sandpiper North 1A	62
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Swisscollina	63
Deadmans Gulch Vineyard	63
Rancho Vinedo	63
Toro	63
Ranch #11 - AB Turri Company	63
Martin Ranch	63
Home Ranch	63
Rancho Fortunato	63
Richard and Wendy Lauchland	63
HOLLISTER PACIFIC	63
Neal Springs Vineyard	63
Corbett Canyon Vineyards	63
16	63
Bonita Ranch	63
Ranch 70	63
Carlson, Walker & McClanahan	63
Mine	63
Matulich	64
BINSACCA	64
Gigi's Rancho el Rincon	64
Molera #1 Ranch G	64
McIntyre Vineyards	64
Ikeda Salinas	64
Union Valley	64

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Van Wingerden Ranch Nipomo 1	64
RS Property II	64
Zilioli	64
Ranch 21	64
MILTON	64
BALESTRA	64
FREW RANCH	64
Ocean Front Farms, LLC Ranch 3	64
RG Ranch 21	64
Dry Creek	64
Pleasant Valley Vineyard	64
RPC Dougherty Ranch	64
NASHUA HIGASHI	65
Paderewski Vineyard	65
Clough	65
Live Oak Vineyards	65
Williams	65
Pajaro	65
SWANTON PACIFIC RANCH	65
OLD STAGE	65
Los Alisos Ranch	65
SHIKUMA 1 & 2	65
Lake Ranch	65
North Dana Foothill Ranch	65
Lucy Brown Lane	65
Holly/Grass Ranch	65
seaside	65
Vintage Organics, Inc	65
Caravella Ranch	65
Leavesley Ranch	65
union	65
Beato Lease	65
Torrioni Ranch	65
152 ranch	65
Terrace Vineyard	65
Borges	66
GH Holdings LP	66
Cal Poly Vineyard	66
04 Don Miguel	66
Ranch 7	66
Casa Blanca Vineyards	66
sunset	66
24	66
SOMAVIA RANCH	66
The Garden of.....	66

RANCH NAME	IRRIGATED ACRES
Dierberg Drum Canyon Vineyard	66
Tarp West	66
Sandpiper South	67
Pacific Sod Ranch	67
Silvio	67
T&A-Jensen	67
MASSA	67
Mac Brown Inc	67
Legend Ranch	67
Ranch 7	67
Del monte	67
Porter Bottom	67
PR 2	68
Copley Ranch	68
San Saba Vineyards	68
PR 1	68
Masten Ranch	68
same	68
Plummer	68
Wellsona Vineyard	68
Rio Vista Vineyard	68
Vineyard Library #4	68
LDC Ranch/Denier Farms	68
Marti	68
Chamberlain	68
7 - Buckley	68
Arroyo Seco	68
Red Head Ranch	68
Old Bridge Farm	68
BONITA 4	68
amesti	68
Angeles Farms	68
Ranch 8	68
Ranch 7 - Buckman	68
Hartnell	68
DeDampierre	68
HETRICK	68
Fennel Ranch	69
ranch 1/ Mahoney	69
Berti Ranch	69
Ranch 3M	69
PREVEDELLI FARMS	69
Half Ranch	69
MASSA SAN JON	70
Ottesen	70

RANCH NAME	IRRIGATED ACRES
FOOTHILL RANCH	70
Phelps and Huff	70
Home Ranch	70
OLD STAGE	70
Brookhollow Ranch	70
SUGARLOAF CANYON	70
Ranch 5	70
Ranch 5	70
Rancho Encantado/Stangeland	70
Marci Ranch	70
TJ Hayes Ranch Incorporated	70
Bear Valley Ranch	70
Central Coast Sod, Inc	70
CAPPURRO RANCH	70
Ricca	70
Karam Pistachio Farm	70
BONITA 5	70
Held Ranch	70
Jack Chin	70
DALTON	70
Betteravia Ranches (26 Garey)	70
Ranch 4	70
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JUSTIN Vineyards and Winery	71
Ranch 4	71
Crossland Vineyard	71
Cassin Ranch	71
Ranch 1	71
Arroyo Seco Canyon Vineyard	71
Ranch 8	71
Grul Ranch and Mann Home Ranch	71
BRAGA Ryan Ranch	71
Derbyshire Farms	71
Martin	71
Fontes 12	71
Maddalena Vineyard	71
NORTON BLOCK 2	72
06 Goodchild	72
Giacomazzi	72
Ranch 4	72
Ranch 6	72
NEW AVE RANCH	72
Hardin Ranch 2	72
Marvin Ranch	72
Armstrong Jordan Flats	72

RANCH NAME	IRRIGATED ACRES
Thompson Vineyard, LLC	72
Marn Ranch Organic	72
Fontes Ranch	72
LeRoy (77)	72
Buena Vista-Dotta	72
Tomasini Ranch	73
ARC VINEYARDS	73
BRAGA Moranda Ranch	73
Nichols Vineyard	73
Foletta	73
Paso de Record	73
McDougall Ranch	73
Delfino	73
Sullivan-Pomeroy	73
INNOVATIVE PRODUCE, INC. / RANCH 13	73
Bonita 15	73
Ranch 28	73
White Hills 1-2 2015-2019	73
Bargiacchi Ranch	73
BORONDA	74
33 - Thompson	74
Foletta Ranch 4	74
PR 17	74
Delucchi	74
Ranchita Canyon Vineyard	74
RG Ranch 3	74
Negranti Green Valley Ranch	74
INNOVATIVE PRODUCE, INC. / RANCH 02	74
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BORONDA	453
Joe Russell SBC Central	454
Harvey Russell SE	454
Casa Grande Vineyard	454
Ranch 6	454
Joe Russell SBC East	454
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Los Alamos Vineyard	462
San Bernardo Ranch North	462
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Hub Russell SBC East	487
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Campbell Ranch	490
Harvey Russell SW	492
SUNRISE OLIVE RANCH	492
Las Colinas Ranch 1	494
Coastal	494
Hub Russell SLOC West	495
Hageman Ranch	498
Reynolds	498
ROSENBERG	498
Barham Vineyard	500
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Johnson Ranch	556
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Olson Ranch	577
Los Alamos Ranch	580
HUDSON	583
Bradley North Ranch 2012	603
Lonoak Ranch	605
Sunnybrook Vineyards	610
Wilson Ranch	612
Templeton Hills Vineyard	624
Keyes Canyon Ranches	630
Laetitia Vineyard	630
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Paragon Vineyards	726
Shandon Hills Vineyard	731
Hacienda Ranch	740
R41 / Mesa Del Rio	743
Culver/Rainbow	744
Bianchi Vineyard	750
Ferry Morse Ranch	786
Cuyama Home Ranch	800
Zabala Vineyards	826
Cat Canyon Vineyard	830
La Panza Ranch	838
SAN LUCAS VINEYARD	847
Sunset Vineyard	860
Pryor Ranch	875
Ranch 1 - Broome Ranch Conventional	881
Martarita Vineyard	892
Silverado Sweetwater Vineyards	903
North Canyon Vineyard	920
H1 H2 H3 / Hames Valley	942
Bien Nacido	950
Arroyo Loma Vineyards	980
Santa Barbara Highlands Vineyard	999
Los Coches	1,001
Jackknife Vineyard	1,003
Callaghan Ranch	1,054
McCoy Creek Vineyards	1,073
Clark	1,166
R50 / San Lucas	1,170
Pinnacles Vineyard	1,171
Pine Creek Ranch	1,264
Cambria Estate	1,284
Truesdale Vineyard	1,301
WHITE HILLS	1,468
French Camp Vineyards	1,479
Oasis Road Vineyard	1,500
BELLA VISTA Row Crop	1,617
San Lucas Vineyard	1,646
Red Cedar Vineyards	1,727
Broome Ranch	1,792
Suey Ranch	1,827
Terra Ventosa Vineyard	2,115
SAN LUCAS ROW CROP	2,341
San Bernabe Vineyard	2,935

RANCH NAME	IRRIGATED ACRES
Loma Del Rio	2,950