



This report shows the selected orchards compared to the CASP average responses.
The first section shows graphs of: Yield, Applied Water, Water Use Efficiency, Applied Nitrogen, and Nitrogen Use Efficiency for the selected orchards.

The second section shows the self-assessment questions, the answers for each orchard and the CASP Average Responses. If the space under the column "Answer Choices" is blank, that means that answer was not selected in your self-assessment. The "CASP Average Responses" column represents the average response for the question. If a question shows the value as blank or N/A, that means an average is unavailable.

If you have questions about this report or wish to correct the information, contact CASP support at CASP@sureharvest.com or (831) 477-7797 X5.

This confidential report was prepared for:

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As a service of the California Almond Stewardship Platform (CASP), SureHarvest maintains full confidentiality of the assessment information you provided and generated this report. Your individual assessment results have not been shared with other individuals or organizations. Other data about your operation provided from your self-assessment:

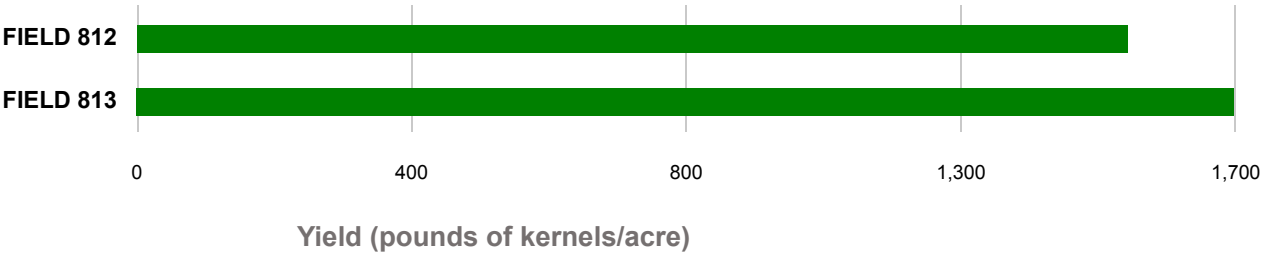
Number of planted almond acres in the entire business: **86**
Harvest year assessed: **2023 Crop**

Enterprise / Orchard Name	Acres	Year Planted
MCCONNELL FARMS, LLC / FIELD 812	49	2014
MCCONNELL FARMS, LLC / FIELD 813	40	2014

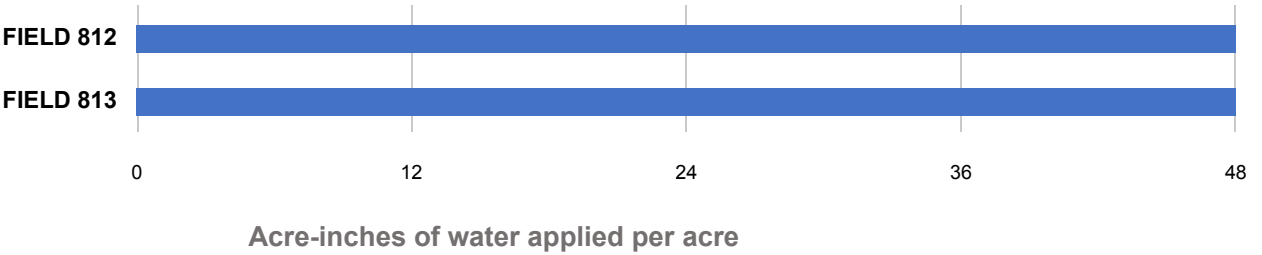


Full confidentiality Is maintained for all information provided And generated in this report. Individual assessment results have Not been shared with other individuals or organizations.

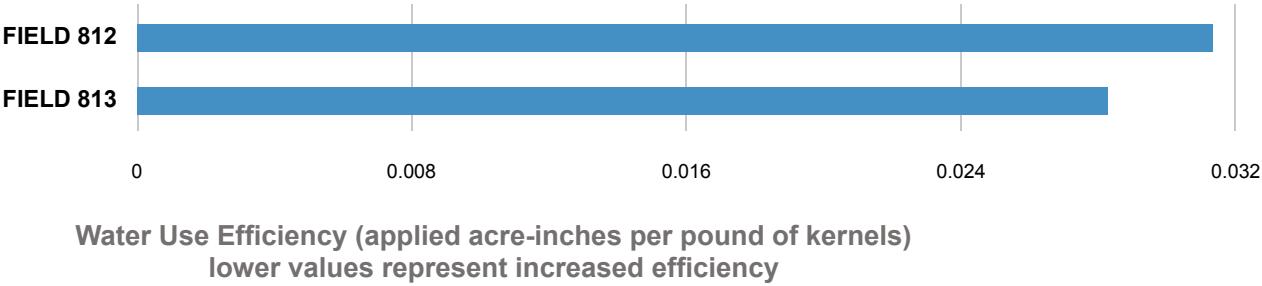
Yield



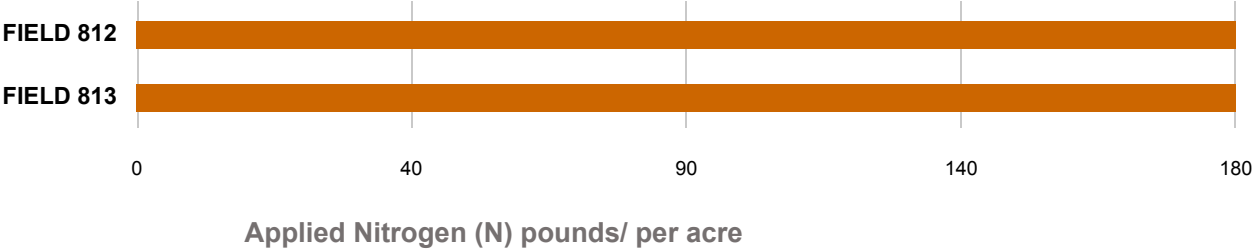
Applied Water



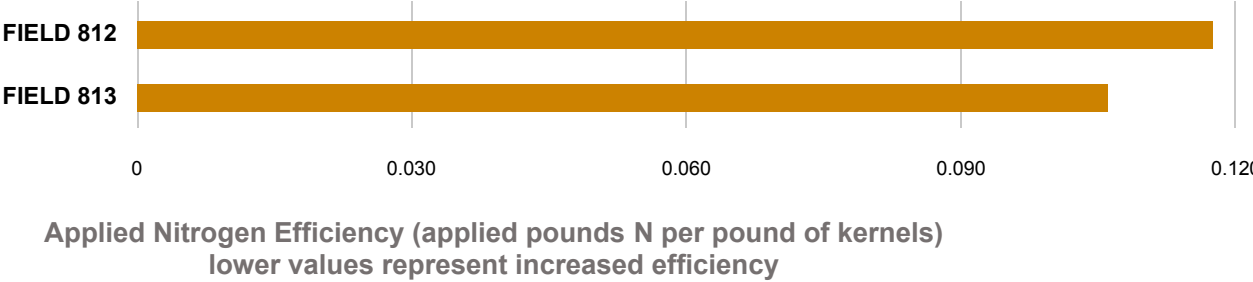
Water Use Efficiency



Applied Nitrogen



Applied Nitrogen Use Efficiency



CASP Self-Assessment Responses

Practice or Metric				
Operations Management Subsection				
Operations Management		Orchards	Answer Choices	CASP Average Response
OM-01	Did the operation have a method for staying updated and complying with applicable legislation and regulations related to farming? <i>Examples of methods for staying updated include, but are not limited to, regular review of relevant newsletters and publications, Farm Bureau membership, and maintenance of certifications for pest management.</i>	FIELD 812 FIELD 813	Yes	99.6%
			No	0.4%
OM-02	Did the operation follow legally required recruitment and employment practices for all employees and contracted workers? <i>Note: employees are directly hired, contracted workers are indirectly hired through an intermediary (e.g., Farm Labor Contractor).</i>	FIELD 812 FIELD 813	Yes	99.8%
			No	0.2%
Financial Management Subsection				
Profitability and Production Planning		Orchards	Answer Choices	CASP Average Response
FM-01	Were financial targets, including net profit, established?	FIELD 812 FIELD 813	Yes	90.5%
			No	9.6%
FM-02	Was your business involved in direct sales decisions for any part of your almond crop? <i>If you answered 'No,' then skip to question FM-04.</i>		Yes	22.8%
		FIELD 812 FIELD 813	No	77.2%
	FM-03. Was a documented sales and marketing plan, as well as a supporting production plan, developed and implemented based on financial targets?		Yes	82.8%
			No	17.2%
FM-04	Was revenue from all sources estimated for use in budgeting?	FIELD 812 FIELD 813	Yes	95.4%
			No	4.6%
FM-05	Were costs estimated for use in budgeting?	FIELD 812 FIELD 813	Yes	96.6%
			No	3.4%
FM-06	Was the ROI calculated and evaluated prior to any renovation, expansion and/or renewal (e.g., orchard replanting) over the last five years?	FIELD 812 FIELD 813	Yes	83.3%
			No	16.7%
			Not applicable	
Business Risk Management Planning		Orchards	Answer Choices	CASP Average Response
FM-07	Has a documented succession plan been established?	FIELD 812 FIELD 813	Yes	71.8%
			No	28.2%
FM-08	Has a written will and estate plan for the business been prepared and reviewed at appropriate intervals? <i>If the ownership structure for this business does not require estate or will planning, answer 'Not Applicable'.</i>	FIELD 812 FIELD 813	Yes	87.7%
			No	12.3%
			Not applicable	
FM-09	Has a documented financial risk management plan been developed that includes issues which may affect future profitability (e.g., urban sprawl, water quality, water availability, labor availability and climate change)?	FIELD 812 FIELD 813	Yes	46.5%
			No	53.5%
FM-10	Were risk-related insurance policies (e.g., fire, crop replacement and liabilities) in place and evaluated to ensure adequate coverage based on needs and the scale of the operation?	FIELD 812 FIELD 813	Yes	96.1%
			No	3.9%
FM-11	Were changes in almond prices and/or yield considered when analyzing financial risk?	FIELD 812 FIELD 813	Yes	96.7%

			No	3.3%
			Not applicable	
Financial Accounting, Tracking, Analysis and Optimization		Orchards	Answer Choices	CASP Average Response
FM-12	After the initial planning process, was an annual budget established and updated with actual results on a regular basis (monthly/quarterly)?	FIELD 812 FIELD 813	Yes	81.4%
			No	18.6%
FM-13	Was a financial accounting system and budgeting approach to track and report finances for the farm used to inform operational decisions?	FIELD 812 FIELD 813	Yes	91.3%
			No	8.7%
FM-14	Were financial management reports (profit and loss statements) generated to track and manage performance for each management unit (e.g., field/block)?	FIELD 812 FIELD 813	Yes	83.6%
			No	16.4%
FM-15	Were input costs and productivity measures calculated and tracked for all key practices to help manage financial efficiency?	FIELD 812 FIELD 813	Yes	91.4%
			No	8.6%
FM-16	Were input costs and productivity measures calculated and tracked for newly implemented practices and compared to previously used practices to help manage financial efficiency?		Yes	90.8%
			No	9.2%
		FIELD 812 FIELD 813	Not applicable	
Energy Efficiency Subsection				
Monitoring Electricity and Fuel Use		Orchards	Answer Choices	CASP Average Response
EE-01	Was electricity use in the operation recorded and tracked beyond filing paid bills? <i>If you answered 'No,' then skip to question EE-03.</i>		Yes	56.9%
		FIELD 812 FIELD 813	No	43.1%
	EE-02. Was electricity use recorded and tracked for the operation as a whole?		Yes	93.0%
			No	7.0%
EE-03	In the past 5 years, was the operation audited by a qualified expert (e.g., utility representative or paid consultant) to identify opportunities to improve electricity energy efficiency?		Yes	46.1%
			No	53.9%
		FIELD 812 FIELD 813	Not applicable	
EE-04	Was fuel use in the operation recorded and tracked beyond filing paid fuel bills? <i>If you answered 'No,' then skip to question EE-06.</i>		Yes	48.1%
		FIELD 812 FIELD 813	No	51.9%
	EE-05. Was fuel use recorded and tracked for the operation as a whole?		Yes	97.7%
			No	2.3%
EE-06	In the past 5 years, was the operation audited by a fuel efficiency expert and/or analyzed fuel use to identify opportunities to improve fuel use efficiency?		Yes	16.4%
		FIELD 812 FIELD 813	No	83.6%
			Not applicable	
Workplace Management Subsection				
Employee Staffing and Development		Orchards	Answer Choices	CASP Average Response
WM-01	How many employees were directly employed at this farm? <i>If the farm does not have employees, then select '0' and skip to question WM-15.</i>	FIELD 812 FIELD 813	0 (zero)	23.6%
			1-4	21.3%
			5-10	15.8%
			11-20	10.5%

			21 or more	28.8%
WM-02	Did the farm offer employees competitive compensation packages to ensure competitive salaries and limit attrition?		Yes	85.8%
			No	14.2%
WM-03	Was a standardized process for recruiting documented and used to comply with federal, state and local regulations?		Yes	87.2%
			No	12.8%
WM-04	Was an orientation program provided for new employees? <i>If you answered 'No,' then skip to question WM-06.</i>		Yes	80.1%
			No	19.9%
	WM-05. Did the orientation program include an employee handbook?		Yes	80.0%
			No	20.0%
WM-06	Were employees provided the opportunity for professional development and further enhancement of skills and competencies through in-house or external company sponsored-training or education?		Yes	79.4%
			No	20.6%
WM-07	Was a documented program used to recognize employees (e.g., safety, operational, community or environmental contributions; and/or years of service)?		Yes	58.6%
			No	41.4%
WM-08	Was a documented grievance process established that ensured grievances were addressed in a timely manner?		Yes	73.4%
			No	26.6%
Workplace - Health and Safety		Orchards	Answer Choices	CASP Average Response
WM-09	Were employees offered a health insurance plan?		Yes	64.1%
			No	35.9%
WM-10	Did the farm offer health screenings, medical exams, vaccinations and flu shots on-site and/or through health care plans?		Yes	47.4%
			No	52.6%
WM-11	Was safety training done according to Cal OSHA regulations (e.g., for new employees; as well as for employees beginning new job assignments or using new processes, procedures, substances or equipment posing hazards)?		Yes	98.0%
			No	2.0%
WM-12	Was employee participation in safety training recorded, tracked, and reviewed to ensure requirements were met, which enhances employee safety, satisfaction and performance, and limits business risk?		Yes	95.9%
			No	4.1%
WM-13	Did the farm develop and implement an Injury and Illness Prevention Program (IIPP), including supplemental programs, in compliance with federal, state and location regulations? <i>If you answered 'No,' then skip to question WM-15.</i>		Yes	88.9%
			No	11.1%
	WM-14. Was an individual identified as the responsible farm representative for all aspects of worker safety and was this person's role communicated to all employees?		Yes	97.6%
			No	2.4%
WM-15	If labor was contracted, was appropriate verification completed to ensure that the labor company trained its workers according to regulations?	FIELD 812 FIELD 813	Yes	94.1%
			No	5.9%
			Not applicable	
WM-16	If a service provider(s) was contracted, was appropriate verification completed to ensure that the service provider(s) trained its workers according to regulations?	FIELD 812 FIELD 813	Yes	89.9%
			No	10.1%
			Not applicable	
WM-17	Were safety failure statistics (e.g., frequencies of procedural violations, equipment malfunctions and accidents) documented, tracked and retained for a minimum of two years; and were causes for safety failures determined and documented, and appropriate actions taken to prevent future incidents?	FIELD 812 FIELD 813	Yes	87.3%
			No	12.7%
			Not applicable	
WM-18	Did management engage in continuing education about workplace safety to identify opportunities to improve safety for employees and/or contracted workers?		Yes	95.9%
			No	4.1%
		FIELD 812 FIELD 813	Not applicable	

Neighbors and Community Subsection				
Neighbor and Community Relations		Orchards	Answer Choices	CASP Average Response
	Were the following potential neighbor and community issues evaluated on an ongoing basis and appropriate actions taken when needed? (Answer 'Yes' to all that apply):			
	NC-01. pesticide and other chemical use (e.g., timing applications to minimize drift)	FIELD 812 FIELD 813	Yes	99.6%
			No	0.4%
	NC-02. dust (e.g., upgrading equipment to capture dust or timing harvest to minimize dust creation)	FIELD 812 FIELD 813	Yes	95.7%
			No	4.3%
	NC-03. traffic (e.g., not blocking roads)	FIELD 812 FIELD 813	Yes	98.2%
			No	1.8%
	NC-04. noise (e.g., avoiding early morning or late evening operations)	FIELD 812 FIELD 813	Yes	88.2%
			No	11.8%
	NC-05. light (e.g., ensuring outside lighting is defused)	FIELD 812 FIELD 813	Yes	82.1%
			No	17.9%
	NC-06. erosion (e.g., minimizing runoff)	FIELD 812 FIELD 813	Yes	96.2%
			No	3.8%
	NC-07. odor (e.g., minimizing or eliminating sources)	FIELD 812 FIELD 813	Yes	91.0%
			No	9.0%
NC-08	Did the farm seek and have friendly dialogue with nearby residents, such as neighbors, schools, and surrounding businesses, to maintain/improve relationships and understandings?	FIELD 812 FIELD 813	Yes	94.2%
			No	5.8%
NC-09	Did the farm host or participate in activities (e.g., orchard tours, open houses, seminars, public forums, service organizations and/or with news media) to educate and build trust with neighbors and the community?		Yes	47.7%
		FIELD 812 FIELD 813	No	52.3%
Communities - Support and Improvement		Orchards	Answer Choices	CASP Average Response
NC-10	Did the farm make contributions (e.g., money, products and/or time) to charitable organizations?	FIELD 812 FIELD 813	Yes	80.1%
			No	19.9%
NC-11	Did employees and management participate in activities (e.g., served on Boards of Directors, volunteered with community organizations, programs, and/or industry organizations) that contribute to community well-being?	FIELD 812 FIELD 813	Yes	80.7%
			No	19.3%
NC-12	For which of the following areas did members of the farm participate in activities that contribute to community well-being? <i>Please select all that apply.</i>	Available for single orchard report only. Rerun for a single orchard to see results.	arts and culture	5.9%
			housing	7.4%
			industry	18.6%
			land / environmental planning, protection or restoration	11.6%
			public health and safety	10.0%
			school / educational	17.9%

			transportation	3.9%
			religion / church	20.4%
			none of the above	4.2%
NC-13	Did someone representing the farm participate in a watershed stewardship planning group?		Yes	58.1%
		FIELD 812 FIELD 813	No	41.9%
Irrigation Management Subsection				
Irrigation Source		Orchards	Answer Choices	CASP Average Response
IM-01	What is the source of irrigation water for this orchard?		Ground	23.5%
			Surface / district	15.2%
		FIELD 812 FIELD 813	Ground & surface / district	61.3%
IM-02	Were all water sources sampled and lab-evaluated for water quality/irrigation suitability?	FIELD 812 FIELD 813	Yes	86.7%
			No	13.3%
IM-03	What type of irrigation system is used for this orchard (not counting separate systems for frost control)? It is recommended that you assess one irrigation set at a time. If you wish to assess an orchard with multiple types of irrigation systems, please select all appropriate types.	FIELD 812 FIELD 813	Drip	47.5%
			Micro-sprinkler	33.3%
			Flood / furrow	11.8%
			Sprinklers	7.5%
Orchard Water Requirements		Orchards	Answer Choices	CASP Average Response
IM-04	Were irrigation-scheduling technologies used to decide when and how much to irrigate based on tree need and soil/climate conditions? <i>If the orchard is not irrigated or if it is on a straight schedule from an irrigation district, answer 'Not Applicable.'</i>	FIELD 812 FIELD 813	Yes	88.7%
			No	11.3%
			Not applicable	
IM-05	Were water requirements based on almond orchard evapotranspiration (ETc)? <i>If you answered 'No,' then skip to question IM-10.</i>	FIELD 812 FIELD 813	Yes	77.7%
			No	22.3%
	IM-06. Was historical (normal year) ETc adjusted for weather and, if applicable, cover crops?	FIELD 812 FIELD 813	Yes	91.1%
			No	8.9%
	IM-07. Were monthly water requirements based on historical (normal year) ETc values of the region?	FIELD 812 FIELD 813	Yes	84.9%
			No	15.1%
	IM-08. Were semi-monthly (every two weeks) water requirements based on historical (normal year) ETc values of the region?	FIELD 812 FIELD 813	Yes	82.1%
			No	17.9%
	IM-09. Were weekly water requirements based on historical (normal year) ETc values in the region and adjusted for the actual ETc values from the previous week?	FIELD 812 FIELD 813	Yes	90.2%
			No	9.8%
IM-10	Was Strategic Deficit Irrigation (SDI) used throughout the hullsplit period to provide a uniform hullsplit, increase drying on the tree, and facilitate a rapid, timely harvest?	FIELD 812 FIELD 813	Yes	86.8%
			No	13.2%
Irrigation System Performance		Orchards	Answer Choices	CASP Average Response
IM-11	Was the irrigation system infrastructure (e.g., pumps, lines, filters, and emitters) regularly tested and corrected, when needed, to maintain optimal efficiency?	FIELD 812 FIELD 813	Yes	94.9%

			No	5.1%
			Not applicable	
IM-12	Were the pH, EC (electroconductivity or salinity), bicarbonate, and iron levels of the irrigation water source(s) tested at least once in the past year?	FIELD 812 FIELD 813	Yes	79.5%
			No	20.5%
IM-13	Was the irrigation system performance (application rate or pressure) evaluated at least once during the past 3 years and have any diagnosed problems been corrected? <i>If you answered 'No,' then skip to question IM-18.</i>	FIELD 812 FIELD 813	Yes	78.6%
			No	21.4%
	IM-14. Was the average application rate evaluated at least once in the past 3 years?	FIELD 812 FIELD 813	Yes	93.8%
			No	6.2%
	IM-15. Was variation in irrigation system pressure evaluated at least once in the past 3 years? <i>If it is a flood/furrow system, answer 'Not applicable.'</i>	FIELD 812 FIELD 813	Yes	91.6%
			No	8.4%
			Not applicable	
	IM-16. Was distribution uniformity (based on measured water volume and application rate) evaluated at least once within the past 3 years?	FIELD 812 FIELD 813	Yes	87.5%
			No	12.5%
	IM-17. Was distribution uniformity (based on measured water volume and application rate) evaluated at least once within the past 2 years?	FIELD 812 FIELD 813	Yes	78.7%
			No	21.3%
IM-18	Was a pump used for irrigation of the orchard? <i>If you answered 'No,' then skip to question IM-22.</i>	FIELD 812 FIELD 813	Yes	95.5%
			No	4.5%
	IM-19. Was the irrigation pumping system tested for energy efficiency in the last 3 years and have any repairs or improvements been made where needed?	FIELD 812 FIELD 813	Yes	80.7%
			No	19.3%
	IM-20. Was one or more pump powered by an electric motor? <i>If you answered 'No,' then skip to question IM-22.</i>	FIELD 812 FIELD 813	Yes	95.2%
			No	4.8%
	IM-21. Were variable-speed drives installed for electric pumps experiencing variable loads?	FIELD 812 FIELD 813	Yes	68.9%
			No	31.1%
			Not applicable	
IM-22	Have all flow meters been inspected and calibrated in the past 2 years?		Yes	70.2%
			No	29.8%
		FIELD 812 FIELD 813	Not applicable	
IM-23	Were pressure gauges checked for accuracy at least annually?		Yes	89.2%
			No	10.8%
		FIELD 812 FIELD 813	Not applicable	
Applied Water		Orchards	Answer Choices	CASP Average Response
IM-24	Was the applied water measured and recorded for the entire season? <i>If you answered 'No', skip to question IM-28.</i>		Yes	80.3%
		FIELD 812 FIELD 813	No	19.7%
	IM-25. Was applied water in each irrigation event calculated from application rate and duration, and recorded?		Yes	87.3%
			No	12.7%

	IM-26. Were flow meter readings recorded for each irrigation set, each time it was run? <i>If you answered 'No', skip to question IM-28.</i>		Yes	66.0%
			No	34.0%
			Not applicable	
	IM-27. Was applied water compared to crop water use (ETc, evapotranspiration) for the entire season to validate irrigation efficiency?		Yes	86.9%
			No	13.1%
Soil Moisture		Orchards	Answer Choices	CASP Average Response
IM-28	Was the soil moisture status (either by feel or by sensors) monitored at least monthly during the irrigation season? <i>If you answered 'No,' then skip to question IM-32.</i>	FIELD 812 FIELD 813	Yes	92.0%
			No	8.0%
	IM-29. Were auger samples taken and evaluated to a depth of at least 3-5 feet using NRCS guidelines?	FIELD 812 FIELD 813	Yes	58.0%
			No	42.0%
	IM-30. Were manually operated soil sensors used at least every 2 weeks for moisture monitoring to a depth of at least 3 to 5 feet and were the results used to ensure that calculated water amounts were not over/under irrigating the orchard?	FIELD 812 FIELD 813	Yes	51.6%
			No	48.4%
	IM-31. Were automated soil sensors used weekly for moisture monitoring to a depth of at least 3 to 5 feet and were the results used to ensure that calculated water amounts were not over/under irrigating the orchard?	FIELD 812 FIELD 813	Yes	60.2%
			No	39.8%
Plant Water Status		Orchards	Answer Choices	CASP Average Response
IM-32	Were visual cues of plant stress evaluated at least every other week prior to irrigation?	FIELD 812 FIELD 813	Yes	97.9%
			No	2.1%
IM-33	At least monthly prior to irrigation, was plant water status evaluated using a pressure chamber to measure midday stem-water potential, and were the measurements compared to applied water to ensure that trees were not over/under irrigated?		Yes	28.3%
		FIELD 812 FIELD 813	No	71.7%
IM-34	At least weekly prior to irrigation, was plant water status evaluated using a pressure chamber to measure midday stem-water potential, and were the measurements compared to applied water to ensure that trees were not over/under irrigated?		Yes	24.2%
		FIELD 812 FIELD 813	No	75.8%
IM-35	Was the first irrigation of the season based on pressure chamber measurements?		Yes	18.5%
		FIELD 812 FIELD 813	No	81.5%
Water Penetration and Salinity		Orchards	Answer Choices	CASP Average Response
IM-36	Does the orchard have a history of problems with water penetration (infiltration)? <i>If you answered 'No,' then skip to question IM-40.</i>	FIELD 812 FIELD 813	Yes	24.3%
			No	75.7%
	IM-37. Was irrigation adjusted to shorter, more frequent run times to prevent ponding or runoff?	FIELD 812 FIELD 813	Yes	94.5%
			No	5.5%
			Not applicable	
	IM-38. Have organic soil amendments periodically been applied or has between-row ground cover (pre-existing or planted) been intentionally grown to improve water penetration and moisture retention?		Yes	82.1%
		FIELD 812 FIELD 813	No	17.9%
			Not applicable	
	IM-39. Were gypsum, sulfuric acid, or other chemical additives, such as organic polyacrylamides (PAM) and polysaccharides or surfactants, applied to the soil or in irrigation water to improve water penetration?	FIELD 812 FIELD 813	Yes	96.3%
			No	3.7%

			Not applicable	
Groundwater Recharge		Orchards	Answer Choices	CASP Average Response
IM-40	Has the orchard location been evaluated for efficiency or suitability of groundwater recharge (e.g., using the Soil Agricultural Groundwater Banking Index - SAGBI)? <i>For more information, go to https://casoilresource.lawr.ucdavis.edu/sagbi/</i>	FIELD 812	Yes	26.0%
		FIELD 813	No	74.0%
IM-41	Was the orchard intentionally irrigated or flooded for groundwater recharge? <i>If you answered 'No,' then skip the remaining questions in this subsection.</i>		Yes	10.8%
		FIELD 812 FIELD 813	No	89.2%
	Check all of the following methods used to recharge groundwater on the orchard:			
	IM-42. Flood irrigation of the orchard in the dormant, winter season.		Yes	17.9%
			No	82.1%
	IM-43. Intentional over-irrigation of the orchard during the growing season.		Yes	22.0%
			No	78.0%
	IM-44. Flooding of a recharge basin on the orchard property.		Yes	21.5%
			No	78.5%
	IM-45. Has an incentive, credit, or grant been received from the local Groundwater Sustainability Agency, Irrigation District, or other program related to groundwater recharge?		Yes	24.1%
			No	75.9%
Nutrient and Soil Management Subsection				
Source		Orchards	Answer Choices	CASP Average Response
NS-01	To ensure overall nitrogen use efficiency, was a documented comprehensive nitrogen management plan and budget used for this orchard?	FIELD 812	Yes	97.1%
		FIELD 813	No	2.9%
NS-02	Were nitrogen contributions from compost, manure, or nitrogen-fixing cover crops included in total nitrogen budgeting? <i>If compost, manure, or nitrogen-fixing cover crops were not used, then click 'Not applicable.'</i>		Yes	79.8%
		FIELD 812 FIELD 813	No	20.2%
			Not applicable	
NS-03	Was well water used for irrigation? <i>If you answered 'No,' then skip to question NS-06.</i>	FIELD 812 FIELD 813	Yes	80.4%
			No	19.6%
	NS-04. Has the nitrogen content of the well water been tested at least once during the past 3 years? <i>If you answered 'No,' then skip to question NS-06.</i>	FIELD 812 FIELD 813	Yes	90.5%
			No	9.5%
	NS-05. If the test indicated the water had nitrogen, was the amount of nitrogen applied via irrigation over the season calculated and used in calculating the total nitrogen applied? <i>If well water contained no nitrogen, then click 'Not applicable.'</i>	FIELD 812 FIELD 813	Yes	96.0%
			No	4.0%
			Not applicable	
	Were the following sources of nitrogen used in this orchard in the past year? <i>Answer 'Yes' to all that apply.</i>			
	NS-06. commercial in-organic nitrogen fertilizer	FIELD 812 FIELD 813	Yes	92.2%
			No	7.8%
	NS-07. commercial organic nitrogen fertilizer		Yes	22.7%
		FIELD 812 FIELD 813	No	77.3%
	NS-08. manure (not recommended for food safety reasons)		Yes	1.8%
		FIELD 812 FIELD 813	No	98.2%

	NS-09. compost		Yes	38.4%
		FIELD 812 FIELD 813	No	61.6%
	NS-10. nitrogen-fixing cover crops		Yes	15.3%
		FIELD 812 FIELD 813	No	84.7%
NS-11	Was commercial fertilizer nitrogen applied to the orchard during the year using the following methods? <i>If you answered 'No,' then skip to question NS-15.</i>	FIELD 812 FIELD 813	Yes	96.4%
			No	3.6%
	NS-12. Nitrogen was applied broadcast	FIELD 812 FIELD 813	Yes	31.8%
			No	68.2%
	NS-13. Nitrogen was fertigated	FIELD 812 FIELD 813	Yes	88.0%
			No	12.0%
	NS-14. How many soil or fertigation applications of fertilizer nitrogen (including post-harvest) were made during the year?		1 application	4.7%
			2 applications	7.7%
			3 applications	16.2%
			4 applications	13.5%
		FIELD 812 FIELD 813	5 or more applications	58.0%
Placement		Orchards	Answer Choices	CASP Average Response
NS-15	Were fertilizer-efficient and irrigation-efficient practices used together to maintain desired nitrogen in the root zone, and reduce losses from N2O emissions, nitrate leaching or runoff?	FIELD 812 FIELD 813	Yes	99.2%
			No	0.8%
			Not applicable	
NS-16	Was the depth of irrigation monitored to ensure that nitrogen was positioned only in the root zone?	FIELD 812 FIELD 813	Yes	84.6%
			No	15.4%
			Not applicable	
NS-17	Was fertigation used to provide any nutrients to the orchard during the year being assessed?	FIELD 812 FIELD 813	Yes	87.6%
			No	12.4%
Soil and Tissue Sampling		Orchards	Answer Choices	CASP Average Response
NS-18	Were plant tissues sampled and tested for nutrient content to guide the amounts of fertilizer applications? <i>If you answered 'No,' then skip to question NS-20.</i>	FIELD 812 FIELD 813	Yes	94.8%
			No	5.2%
	NS-19. Were tissue samples collected following recommended procedures that included taking samples at the appropriate time(s) of year?	FIELD 812 FIELD 813	Yes	99.7%
			No	0.3%
NS-20	Has the soil been sampled and tested to identify any problems impacting nutrient availability or to guide management decisions?	FIELD 812 FIELD 813	Yes	95.4%
			No	4.6%
NS-21	Were soil or tissue test results mapped and used with variable rate technology to apply different rates of fertilizer within the orchard?		Yes	35.4%
		FIELD 812 FIELD 813	No	64.6%
			Not applicable	
NS-22	Were tissue testing and other nutrient budgeting techniques (e.g., estimates of yield and			

	nutritional needs for tree growth) employed to efficiently use fertilizers? (Efficient fertilizer use limits the energy footprint, cost, and potential pollution from fertilizer use, manufacture, application, and transport.)	FIELD 812 FIELD 813	Yes	93.1%
			No	6.9%
Fertilizer Application		Orchards	Answer Choices	CASP Average Response
NS-23	Were the applied amounts of nitrogen fertilizer calculated from yield estimates, nitrogen credits from other sources (e.g., irrigation water, compost and/or cover crops), and results of early season leaf sampling?	FIELD 812 FIELD 813	Yes	95.9%
			No	4.1%
NS-24	Were all fertilizer applications made at recommended timings (coinciding with crop growth and demand)?	FIELD 812 FIELD 813	Yes	99.6%
			No	0.4%
NS-25	Was fertilizer storage secured, products properly labelled, and were measures taken to minimize risks (e.g., associated with spills, mixing, and handling) to humans and the environment?	FIELD 812 FIELD 813	Yes	99.7%
			No	0.3%
Enhancing Soil Properties		Orchards	Answer Choices	CASP Average Response
NS-26	Over the past three years, how frequently was the orchard floor tilled (excluding floating, smoothing or rolling)?	FIELD 812 FIELD 813	0 times in past 3 years (never)	73.0%
			1-2 times in past 3 years	18.5%
			3 or more times in past three years (every year)	8.5%
NS-27	Were organic soil amendments (e.g., compost) used to stabilize soil by increasing moisture retention and reducing compaction?		Yes	53.0%
		FIELD 812 FIELD 813	No	47.0%
			Not applicable	
NS-28	Was a cover crop (pre-existing or planted ground cover) intentionally grown between orchard rows? <i>If you answered 'No,' then skip to question NS-33.</i>	FIELD 812 FIELD 813	Yes	41.9%
			No	58.1%
	NS-29. Was the ground cover purposely planted? <i>If you answered 'No,' then skip to question NS-33.</i>	FIELD 812 FIELD 813	Yes	46.3%
		No	53.7%	
	NS-30. Was the cover crop recommended for providing forage to pollinators (e.g., mustards, clovers, vetch and/or wildflowers)?	FIELD 812 FIELD 813	Yes	93.3%
		No	6.7%	
	NS-31. Was the cover crop selected, seeded and managed to out-compete weeds and prevent weed colonization of tree rows?	FIELD 812 FIELD 813	Yes	79.9%
		No	20.1%	
	NS-32. Were the plant species used for cover rotated annually to restrict the growth of nematode populations? <i>Answer 'Not Applicable' if this is the first year of cover cropping or if the cover crop planted doesn't support nematodes.</i>	FIELD 812 FIELD 813	Yes	52.4%
		No	47.6%	
		Not applicable		
NS-33	Was orchard equipment chosen (e.g., ATV instead of tractor) or modified (e.g., via wider or bigger diameter tires, or lower tire pressure) to minimize soil compaction?		Yes	83.5%
		FIELD 812 FIELD 813	No	16.5%
Erosion Prevention		Orchards	Answer Choices	CASP Average Response
NS-34	Have farm roads and/or equipment yards and their margins been graded or engineered, kept in vegetation, or otherwise managed to minimize erosion?	FIELD 812 FIELD 813	Yes	95.2%
			No	4.8%

			Not applicable	
NS-35	Did down-slope orchard margins, stream banks, or other areas prone to runoff have vegetated buffers, fabric fencing, filter strips, straw bale check dams or water bars, sediment basins and/or other means to slow and retain water and filter contaminants (sediment, nutrients and pesticides)?		Yes	76.3%
			No	23.7%
		FIELD 812 FIELD 813	Not applicable	
NS-36	Were drainage and erosion prevention systems cleaned/maintained prior to the rainy season and checked regularly during stormy periods?		Yes	83.2%
			No	16.8%
		FIELD 812 FIELD 813	Not applicable	
NS-37	Were culverts properly sized to accommodate high-flow events and had hardened inlets and outlets or energy dissipaters to reduce erosion?		Yes	78.8%
			No	21.2%
		FIELD 812 FIELD 813	Not applicable	
NS-38	If areas had eroded previously, were efforts made to stabilize (e.g., via geotech fabric or berms) and restore the damaged area?		Yes	95.2%
			No	4.8%
		FIELD 812 FIELD 813	Not applicable	
Numeric - Yield, Water and Soil Subsection				
Numeric - Yield, Water and Soil		Orchards	Answer Choices	CASP Average Response
YW-01	Did this orchard produce a crop? <i>If you answered 'No,' then skip to question YW-03.</i>	FIELD 812 FIELD 813	Yes	
			No	
	YW-02. What was the average kernel yield across all varieties? <i>pounds of kernels per acre</i>	FIELD 812	1,532.0 pounds of kernels per acre	
		FIELD 813	1,697.0 pounds of kernels per acre	
YW-03	For the crop year assessed, how many acre-inches of water were applied to this orchard, not including rainfall? <i>acre-inches per acre</i>	FIELD 812	48.0 acre inches/acre	
		FIELD 813	48.0 acre inches/acre	
YW-04	Is this amount an estimate, or is it verified by measurement (e.g., flow meters)?	FIELD 812 FIELD 813	Flow Meter	51.1%
			Estimate / Calculation	48.9%
YW-05	Has the percent soil organic matter for this orchard been measured in the past 5 years? <i>If you answered 'No,' then skip to question YW-07.</i>		Yes	31.5%
		FIELD 812 FIELD 813	No	68.5%
	YW-06. What was the measured percent soil organic matter?	FIELD 812		
		FIELD 813		
YW-07	How many units (pounds per acre) of nitrogen (N) sourced from commercial fertilizer (mineral and organic) were applied to this orchard during the past season? (NOTE: The N of N-P-K on fertilizer labels shows the percent of N by weight.) <i>Pounds of nitrogen (N) applied per acre. This is the first number on a fertilizer label N-P-K.</i>	FIELD 812	180.0 pounds of nitrogen (N) applied per acre	
		FIELD 813	180.0 pounds of nitrogen (N) applied per acre	
YW-08	How many pounds per acre of P205 (the phosphorous component) sourced from commercial fertilizer (mineral and organic) were applied to this orchard during the past season? (NOTE: The P of N-P-K on fertilizer labels shows the percent of P205 by weight.) <i>Pounds of phosphorous as phosphate (P205) applied per acre. This is the second number on a fertilizer label N-P-K.</i>	FIELD 812	20.0 pounds per acre	
		FIELD 813	20.0 pounds per acre	
YW-09	How many pounds per acre of K2O (the potassium component) sourced from commercial fertilizer (mineral and organic) were applied to this orchard during the past season? (NOTE:	FIELD 812	180.0 pounds per	

	The K of N-P-K on fertilizer labels shows the percent of K ₂ O by weight.) Pounds of potassium as potash (K₂O) applied per acre. This is the third number on a fertilizer label N-P-K.	FIELD 813	acre 180.0 pounds per acre	
YW-10	Was the entire orchard removed for replanting, left fallow, sold, or farmed by another company? If you answered 'Yes,' reach out to CASP support to remove the orchard from your account.		Yes	
		FIELD 812 FIELD 813	No	
YW-11	Was any acreage on this orchard removed or redeveloped in the past year? If you answered 'No,' then skip the remaining questions in this Topic.		Yes	6.5%
		FIELD 812 FIELD 813	No	93.5%
	Of acreage removed or redeveloped in the last year, please specify the approximate number of acres of the almond orchard/trees by category:			
	YW-12. Whole Orchard Recycled (WOR). WOR involves grinding whole trees into chips, spreading the chips evenly on the soil surface, then incorporating them into the soil. If none, enter '0'.	FIELD 812		
		FIELD 813		
	YW-13. Chipped and used as mulch at this site (on the orchard or nearby) or hauled offsite for use as mulch. If none, enter '0'.	FIELD 812		
		FIELD 813		
	YW-14. Used for energy generation. If none, enter '0'. This option includes trees or vines that were chipped and then hauled away for use at an energy or cogeneration facility.	FIELD 812		
		FIELD 813		
	YW-15. Burned in the field. If none, enter '0'.	FIELD 812		
		FIELD 813		
	YW-16. Trees were cut for firewood. If none, enter '0'.	FIELD 812		
		FIELD 813		
	YW-17. Other, Please specify: If none, enter '0'.			
Pest Management Subsection				
General IPM		Orchards	Answer Choices	CASP Average Response
PM-01	Were integrated pest management (IPM) techniques used to reduce the likelihood of treatments for insect, disease and weed control and associated energy use? IPM may reduce the need for equipment passes.	FIELD 812 FIELD 813	Yes	95.8%
			No	4.2%
PM-02	Did safe pesticide storage procedures include all of the following: storing dry products above liquids, storing only undamaged containers, ensuring the storage area was more than 100 feet from the nearest well, and ensuring the area had an impermeable floor and sump to contain leaks?		Yes	95.5%
			No	4.5%
		FIELD 812 FIELD 813	Not applicable	
PM-03	Was an emergency response plan covering pesticide or fertilizer spills and exposure risks posted in the appropriate languages and locations for employees to review, and were employees trained to follow the plan? If you do not have employees, answer 'Yes' but only if a posted plan covering spills and exposure exists.		Yes	91.4%
		FIELD 812 FIELD 813	No	8.6%
PM-04	When insecticide applications were necessary, were the lowest label rates shown to be effective (e.g., by UC IPM guidelines) used?		Yes	75.4%
			No	24.6%
		FIELD 812 FIELD 813	Not applicable	
PM-05	When choosing pesticides, were low-VOC formulations (e.g., not emulsifiable concentrates) used when available and practical for application?	FIELD 812 FIELD 813	Yes	98.5%
			No	1.5%
			Not applicable	
PM-06	If effective alternatives existed, were broad-spectrum insecticides and acaricides (e.g., pyrethroids, organophosphates and carbamates), not used because of their potential negative effects on beneficial and non-target organisms?		Yes	96.3%
			No	3.7%
		FIELD 812 FIELD 813	Not applicable	
PM-07	Prior to applying newly registered pesticides, were impacts to bees and natural enemies	FIELD 812	Yes	99.3%

	checked using information from labels and other sources (such as the UC IPM website) and was the product with the fewest precautions and/or shortest residual considered for use?	FIELD 813		
			No	0.7%
			Not applicable	
PM-08	In addition to following required practices on product labels, were mode-of-action group numbers for insecticides and acaricides (on labels or in UC Pest Management Guidelines) recorded and used to guide pesticide rotation/resistance decisions?	FIELD 812 FIELD 813	Yes	96.9%
			No	3.1%
			Not applicable	
PM-09	Was a map of sensitive sites (e.g., aquatic areas, residences, schools, pollinator and pest natural enemy habitat) and associated buffer zones within or near the orchard created and reviewed with everyone involved in pesticide applications?		Yes	88.3%
			No	11.7%
		FIELD 812 FIELD 813	Not applicable	
Pest Monitoring		Orchards	Answer Choices	CASP Average Response
PM-10	Was the orchard monitored by a licensed PCA for insects, mites, diseases and pest natural enemies (i.e., beneficials) at least once every two weeks during the growing season? (Diseases should be monitored weekly during bloom and spring.) <i>If you answered 'No,' then skip to question PM-15.</i>	FIELD 812 FIELD 813	Yes	96.1%
			No	3.9%
	PM-11. Were written or electronic scouting reports kept by or provided to the farm owner or staff to inform decision making? <i>If you answered 'No,' then skip to question PM-13.</i>	FIELD 812 FIELD 813	Yes	83.6%
			No	16.4%
	PM-12. Was a year-end review of pest levels and trends completed to improve future decision-making?	FIELD 812 FIELD 813	Yes	92.3%
			No	7.7%
	PM-13. Were scouting data, university guidelines, and practical experience used to design and implement management strategies for insects, mites, and diseases?	FIELD 812 FIELD 813	Yes	98.2%
			No	1.8%
	PM-14. Were scouting efforts continued after the use of each pest control tactic to verify efficacy and/or resistance issues?	FIELD 812 FIELD 813	Yes	98.7%
			No	1.3%
PM-15	Did spring and summer monitoring include scouting for nut drop, nut gummosis and signs of other damage from leaffooted bugs and/or stinkbugs, and were results used for management decisions?	FIELD 812 FIELD 813	Yes	98.6%
			No	1.4%
			Not applicable	
PM-16	At harvest, did farm staff or a PCA sample and analyze the nuts for types of nut rejects to determine the pest(s) causing the damage, the efficacy of the year's pest management program, and the plan for the next year?	FIELD 812 FIELD 813	Yes	95.2%
			No	4.8%
Application Practices		Orchards	Answer Choices	CASP Average Response
	If a custom applicator or farm management company was primarily responsible for applying pesticides, you may have to answer 'Not applicable' for some of the following questions related to spray equipment and applications. However, please answer 'Not applicable' ONLY if necessary.			
PM-17	Was pesticide application equipment calibrated prior to use each year, after every equipment repair or modification, and when other circumstances requiring recalibration occur (e.g., when changes were made in operating pressure, spray pattern, fan speed, tractor type and/or tractor wheels)?		Yes	97.9%
			No	2.1%
		FIELD 812 FIELD 813	Not applicable	
PM-18	Was a log of calibration and repairs to pesticide and fertilizer application equipment maintained to ensure timely maintenance and efficient operation?		Yes	76.6%
			No	23.4%
		FIELD 812 FIELD 813	Not applicable	
PM-19	Were sprayer operating manuals reviewed, and were all applicators trained in proper operation?	FIELD 812 FIELD 813	Yes	97.7%

			No	2.3%
			Not applicable	
PM-20	Prior to each air blast and/or aerial application, was the weather checked for current and forecasted wind speed and direction, inversion conditions, temperature and rain?	FIELD 812 FIELD 813	Yes	99.8%
			No	0.2%
			Not applicable	
PM-21	Were air blast and/or aerial applications made only when rain was not forecasted for the next 48 hours and when zero runoff into waterways was expected? (Exceptions could be made for applications just before rainfall only if specifically recommended, such as for managing diseases.)	FIELD 812 FIELD 813	Yes	98.8%
			No	1.2%
			Not applicable	
PM-22	To minimize drift from inversions and wind, were air blast and/or aerial applications made only when winds were between 2 and 8 mph?	FIELD 812 FIELD 813	Yes	99.0%
			No	1.0%
			Not applicable	
PM-23	Were air blast applications kept at or below ground speeds of 2 mph to optimize coverage?	FIELD 812 FIELD 813	Yes	80.4%
			No	19.6%
			Not applicable	
PM-24	To avoid vapor drift and for worker safety, did air blast applications occur only at night or the coolest part of the day (and not when bees were active during bloom)?	FIELD 812 FIELD 813	Yes	96.2%
			No	3.8%
			Not applicable	
PM-25	Were low-drift nozzles used for air blast and/or aerial sprayers to optimize spray placement and minimize off-target movement?	FIELD 812 FIELD 813	Yes	86.8%
			No	13.2%
			Not applicable	
PM-26	Were sprayer nozzles for air blast sprayers replaced at least once per season, or more frequently if powders or other corrosive materials were used?		Yes	78.3%
			No	21.7%
		FIELD 812 FIELD 813	Not applicable	
PM-27	Was the air blast spray pattern adjusted according to the orchard's average tree size and shape? (Examples of adjustments include reducing size of lower nozzles for a mature orchard with a thin lower canopy and shutting off top nozzles for a young orchard with short trees.)	FIELD 812 FIELD 813	Yes	98.5%
			No	1.5%
			Not applicable	
PM-28	When shifting between foliar sprays and dormant or bloom sprays for air blast sprayers, were the fan speed, pressure, and/or nozzle type adjusted for the canopy density?	FIELD 812 FIELD 813	Yes	87.0%
			No	13.0%
			Not applicable	
PM-29	Was spray coverage periodically checked using water-sensitive paper placed in the target zone?		Yes	55.3%
		FIELD 812 FIELD 813	No	44.7%
			Not applicable	
PM-30	Were proven drift-control spray additives (as long as no impacts to bees are expected) or drift-reducing sprayers used?	FIELD 812 FIELD 813	Yes	83.3%
			No	16.7%
			Not applicable	
PM-31	To reduce drift, was the air blast sprayer(s) operated at the lowest pressure providing uniform coverage?	FIELD 812 FIELD 813	Yes	94.9%

			No	5.1%
			Not applicable	
PM-32	Was interference spraying (involving the use of a second spray rig to run in parallel blowing inwards on rows near the orchard edge) used as a method to minimize spray drift?	FIELD 812 FIELD 813	Yes	36.9%
			No	63.1%
			Not applicable	
PM-33	Were sprayer shields or drift guards used to keep sprays on target (e.g., for weed sprayers)?	FIELD 812 FIELD 813	Yes	85.1%
			No	14.9%
			Not applicable	
PM-34	Were ultra-low-volume spray equipment or target-sensing sprayers (e.g., SmartSpray (R) or WeedSeeker (R) technology) used to reduce spray volumes or amounts of pesticides?		Yes	34.5%
		FIELD 812 FIELD 813	No	65.5%
			Not applicable	
PM-35	Were sprayers turned off when making row turns and spraying not resume until the nozzles were adjacent to the first trees?	FIELD 812 FIELD 813	Yes	99.7%
			No	0.3%
			Not applicable	
PM-36	Was spraying discontinued when winds blew in the direction of nearby waterways (e.g., creeks or irrigation canals) or other sensitive sites (e.g., residences, schools, pollinator and pest natural enemy habitat)?		Yes	99.1%
			No	0.9%
		FIELD 812 FIELD 813	Not applicable	
PM-37	When operating air blast sprayers next to open or sensitive sites (e.g., aquatic areas, residences, schools, pollinator and pest natural enemy habitat), were the two rows directly adjacent to these sites sprayed on the outer side only (i.e., to direct spray into the orchard)?		Yes	96.1%
			No	3.9%
		FIELD 812 FIELD 813	Not applicable	
PM-38	If there were drainage ditches or other aquatic areas in or near the orchard, was pesticide application discontinued at least 100 feet upslope from these sites?		Yes	90.6%
			No	9.4%
		FIELD 812 FIELD 813	Not applicable	
PM-39	Did the orchard have an operational well(s)? <i>If you answered 'No,' then skip to question PM-42.</i>	FIELD 812 FIELD 813	Yes	83.6%
			No	16.4%
	PM-40. Were wellheads situated or berms or other barriers placed in such a way to prevent surface water from contacting the wellhead and potentially contaminating groundwater?	FIELD 812 FIELD 813	Yes	98.7%
			No	1.3%
	PM-41. Was pesticide mixing and loading done at least 100 feet from wellheads, unless wellheads were protected from contamination by berms or other physical characteristics?	FIELD 812 FIELD 813	Yes	98.9%
			No	1.1%
Insect and Mite Pests		Orchards	Answer Choices	CASP Average Response
PM-42	To reduce outbreaks of NOW, were mummy nuts counted and removed, as needed, during the winter, so that less than two mummies per tree remained by February 1? (For the southern San Joaquin Valley and any almond orchard within 3 miles of pistachio orchards, this rate must be less than one mummy nut per tree).	FIELD 812 FIELD 813	Yes	92.1%
			No	7.9%
			Not applicable	
PM-43	By March 1, were all mummy nuts on the ground destroyed (e.g., by mowing or discing)?	FIELD 812 FIELD 813	Yes	98.0%
			No	2.0%
			Not applicable	

PM-44	Were nuts harvested in a timely manner (as soon as they were dry enough) to reduce nut damage by NOW?	FIELD 812 FIELD 813	Yes	99.9%
			No	0.1%
			Not applicable	
PM-45	Was a mating disruption program for navel orangeworm (NOW) used for this orchard?		Yes	40.3%
		FIELD 812 FIELD 813	No	59.7%
			Not applicable	
PM-46	Was a non-aflatoxin producing Aspergillus strain (e.g., AF36) used prior to hullsplit to reduce aflatoxin development associated with damage from NOW?		Yes	26.1%
		FIELD 812 FIELD 813	No	73.9%
PM-47	Was navel orangeworm (NOW) sprayed in the past year? <i>If you answered 'No,' then skip to question PM-53.</i>	FIELD 812 FIELD 813	Yes	92.3%
			No	7.7%
	PM-48. How many spray applications were applied for NOW in the past year? ("Spray" refers to the number of applications, not the number of spray products in a tank or mix).		1	35.7%
		FIELD 812 FIELD 813	2	53.2%
			3 or more	11.1%
	. Check each of the following combinations of spray timing and monitoring for NOW that were used to ensure efficacy:			
	PM-49. Spring spray timing for NOW was based on egg traps and degree-day calculations.	FIELD 812 FIELD 813	Yes	88.0%
			No	12.0%
	PM-50. Hullsplit spray timing for NOW was based on the percentage of split hulls.	FIELD 812 FIELD 813	Yes	95.1%
			No	4.9%
	PM-51. Hullsplit spray timing for NOW was based on egg traps and degree-day calculations.	FIELD 812 FIELD 813	Yes	81.7%
			No	18.3%
	PM-52. Hullsplit spray timing for NOW was based on pheromone trap catches.	FIELD 812 FIELD 813	Yes	77.7%
			No	22.3%
PM-53	Was San Jose Scale (SJS) sprayed in the past year? <i>If you answered 'No,' then skip to question PM-55.</i>		Yes	33.6%
		FIELD 812 FIELD 813	No	66.4%
	PM-54. Was San Jose Scale (SJS) monitored using pheromone traps and degree-day calculations?		Yes	66.5%
			No	33.5%
PM-55	Was Peach Twig Borer (PTB) sprayed in the past year (dormant, bloom or spring sprays)? <i>If you answered 'No,' then skip to question PM-58.</i>	FIELD 812 FIELD 813	Yes	42.8%
			No	57.2%
	. Check each of the following types of monitoring used to decide if and when to spray for PTB:			
	PM-56. Did shoot strike monitoring being in April to determine if the number of strikes reached a treatment threshold? (The threshold is generally four or more strikes per tree for mature orchards; threshold should be lower for second- and third-leaf orchards.)	FIELD 812 FIELD 813	Yes	86.2%
			No	13.8%
	PM-57. Was Peach Twig Borer (PTB) monitored using pheromone traps and degree-day calculations?	FIELD 812 FIELD 813	Yes	73.4%
			No	26.6%
PM-58	To reduce outbreaks of mites, was dust reduced on orchard roadways (e.g., via dust suppressants, oiling, watering, mulching, vegetative cover and/or driving slowly)?	FIELD 812 FIELD 813	Yes	99.0%

			No	1.0%
			Not applicable	
PM-59	Was irrigation managed to prevent levels of water stress that can cause problems with web-spinning mites?	FIELD 812 FIELD 813	Yes	99.2%
			No	0.8%
			Not applicable	
PM-60	Were hot spots for web-spinning spider mites (e.g., orchard areas along dusty roads) monitored (generally May to August) to guide management decisions?	FIELD 812 FIELD 813	Yes	98.7%
			No	1.3%
			Not applicable	
PM-61	Were mite predators (e.g., predatory mites and six-spotted thrips) also monitored to estimate the amount of biological control and to make management decisions that reduced pests and preserved natural enemies?	FIELD 812 FIELD 813	Yes	90.0%
			No	10.0%
			Not applicable	
PM-62	Were mites sprayed in the past year? <i>If you answered 'No,' then skip to question PM-65.</i>	FIELD 812 FIELD 813	Yes	87.4%
			No	12.6%
	PM-63. How many spray applications were applied for mites in the past year?	FIELD 812 FIELD 813	1	57.6%
			2	37.9%
			3 or more	4.5%
	PM-64. Were miticides only applied after mite populations exceeded an established threshold of 25 percent of leaves infested (if there were no natural enemies), or 40 percent of leaves infested (if natural enemies were present)?	FIELD 812 FIELD 813	Yes	82.7%
			No	17.3%
PM-65	In mid- or late spring, were the number of ant colonies per 5,000 square feet estimated and the results used for management decisions?		Yes	78.3%
			No	21.7%
		FIELD 812 FIELD 813	Not applicable	
PM-66	Was rapid pickup of nuts off the ground completed to reduce nut damage by ants and other pests?	FIELD 812 FIELD 813	Yes	98.0%
			No	2.0%
			Not applicable	
Diseases		Orchards	Answer Choices	CASP Average Response
PM-67	To guide management decisions, was the orchard monitored for signs of Alternaria leaf spot from April to June?	FIELD 812 FIELD 813	Yes	93.2%
			No	6.8%
PM-68	Were temperature and leaf wetness duration monitored and used in a disease severity value (DSV) model to help forecast Alternaria leaf spot?		Yes	65.7%
		FIELD 812 FIELD 813	No	34.3%
PM-69	Was Alternaria leaf spot sprayed in the past year? <i>If you answered 'No,' then skip to question PM-71.</i>		Yes	34.0%
		FIELD 812 FIELD 813	No	66.0%
	PM-70. How many spray applications were applied for Alternaria leaf spot in the past year?		1	49.3%
			2	18.1%
			3 or more	32.6%
PM-71	Was hull rot observed in the orchard this past year? <i>If you answered 'No,' then skip to question PM-73.</i>		Yes	35.4%
		FIELD 812 FIELD 813	No	64.6%

	PM-72. Did you or your PCA identify the type of fungus responsible for hull rot (e.g., Monilinia, Rhizopus, Aspergillus)?		Yes	63.9%
			No	36.1%
PM-73	Were fungicide sprays used to manage hull rot in the past year? <i>If you answered 'No,' then skip to question PM-75.</i>	FIELD 812 FIELD 813	Yes	45.4%
			No	54.6%
	PM-74. How many fungicide spray applications were applied for hull rot in the past year?		1	77.5%
		FIELD 812 FIELD 813	2	19.8%
			3 or more	2.7%
PM-75	Was the orchard monitored for shot hole or rust lesions and fruiting structures in the fall to determine if treatment would be necessary during the following season? (Zinc sprays applied as foliar fertilizers in the fall may cause incidental leaf loss, thereby reducing potential infection sites.)	FIELD 812 FIELD 813	Yes	96.6%
			No	3.4%
			Not applicable	
PM-76	Was pruning completed during dry weather (e.g., immediately after harvest) to minimize time that open wounds are exposed to rain? (This practice is especially important for young trees.) <i>Select "Not Applicable" if no pruning was done on the orchard.</i>	FIELD 812 FIELD 813	Yes	95.7%
			No	4.3%
			Not applicable	
PM-77	During bloom and spring periods, were decisions to spray for diseases based on temperature and rainfall patterns conducive for disease development?	FIELD 812 FIELD 813	Yes	99.0%
			No	1.0%
PM-78	To determine necessary fungicides, rates and timings, were disease symptoms monitored weekly prior to and during bloom, throughout spring, and until the weather was no longer conducive for disease development?	FIELD 812 FIELD 813	Yes	99.3%
			No	0.7%
PM-79	Was the orchard scouted during postharvest for nuts or leaves stuck on trees or shoot die-back, which may indicate hull rot or damage from San Jose Scale and the need for future control for these pests?	FIELD 812 FIELD 813	Yes	94.4%
			No	5.6%
			Not applicable	
PM-80	In addition to required practices on product labels, was the most recent fungicide efficacy and resistance management information reviewed (e.g., UC Fungicide Efficacy and Treatment Timing tables) to guide active ingredient rotation/resistance management decisions?	FIELD 812 FIELD 813	Yes	97.6%
			No	2.4%
			Not applicable	
Nematodes		Orchards	Answer Choices	CASP Average Response
PM-81	If any equipment used in orchards was infested with nematodes, was it cleaned of soil and roots before being moved to non-infested areas?		Yes	85.2%
			No	14.8%
		FIELD 812 FIELD 813	Not applicable	
PM-82	If weak areas of tree growth were evident, were root and soil samples taken from these areas and tested for nematode pests and used for management decisions?		Yes	77.6%
			No	22.4%
		FIELD 812 FIELD 813	Not applicable	
Weeds		Orchards	Answer Choices	CASP Average Response
PM-83	To prevent transferring weeds among orchards, was equipment cleaned after working in weedy areas, especially if herbicide-resistant species were suspected or verified to be present?		Yes	70.6%
		FIELD 812 FIELD 813	No	29.4%
			Not applicable	
PM-84	Were weeds monitored at least twice a year and was monitoring information used for management decisions? Preferably, monitoring would occur during the fall after harvest and	FIELD 812 FIELD 813	Yes	95.9%

	first rains (for winter annuals and perennials) and during late spring (summer annuals and perennials). <i>If you answered 'No,' then skip to question PM-88.</i>		No	4.1%
	PM-85. Were species and infestation levels recorded to guide the weed management strategy and type and timing of control(s)?	FIELD 812 FIELD 813	Yes	87.5%
			No	12.5%
	PM-86. Did monitoring records include growth stages (seedling or mature) and potential herbicide resistance issues?		Yes	78.0%
		FIELD 812 FIELD 813	No	22.0%
	PM-87. Did monitoring include an evaluation after each treatment to identify and manage problems with efficacy, including resistance?	FIELD 812 FIELD 813	Yes	93.4%
			No	6.6%
PM-88	Were some annual weeds tolerated within the tree rows, if competition from them was negligible and their presence did not increase rodents or interfere with irrigation or harvest?	FIELD 812 FIELD 813	Yes	88.9%
			No	11.1%
			Not applicable	
PM-89	Was an integrated weed management strategy developed (e.g., involving multiple control tactics, and rotation of herbicides with different modes of action) that considered monitoring results, past treatments, herbicide resistance, regulations and physical characteristics of the orchard, and surrounding sensitive areas?	FIELD 812 FIELD 813	Yes	97.7%
			No	2.3%
			Not applicable	
PM-90	Were herbicides generally applied only within the tree rows (not in orchard middles)?		Yes	86.8%
		FIELD 812 FIELD 813	No	13.2%
			Not applicable	
PM-91	Were rates of applied post-emergent herbicides decreased by spot-spraying (e.g., manually or by use of smart sprayers)?	FIELD 812 FIELD 813	Yes	82.4%
			No	17.6%
			Not applicable	
PM-92	Were suspected or identified herbicide-resistant weeds managed with alternative tactics, including cultural practices (such as hoeing small patches when first noticed) and alternating herbicides with different modes of action?		Yes	96.0%
			No	4.0%
		FIELD 812 FIELD 813	Not applicable	
Vertebrate Pests		Orchards	Answer Choices	CASP Average Response
PM-93	If the orchard is adjacent to grasslands or other wild areas, was a cleared margin maintained to discourage rodents from entering the orchard?		Yes	90.6%
			No	9.4%
		FIELD 812 FIELD 813	Not applicable	
PM-94	Were orchard floors managed to prevent weeds from getting tall and providing shelter for rodents (especially directly adjacent to almond trees)?	FIELD 812 FIELD 813	Yes	99.2%
			No	0.8%
			Not applicable	
PM-95	Were the orchard and its margins, including brush piles, monitored for signs of vertebrate pests (e.g., ground squirrels and gophers) throughout the season to support management decisions?	FIELD 812 FIELD 813	Yes	98.1%
			No	1.9%
PM-96	Was the orchard intensely monitored during the onset of vertebrate activity to detect and control problems early (e.g., spring)?	FIELD 812 FIELD 813	Yes	97.5%
			No	2.5%
PM-97	Was biological control of burrowing vertebrate pests encouraged by installing nest boxes or perches for predatory birds (e.g., owls or hawks) at orchard margins? <i>If you answered 'No,' then skip the remaining question in this subsection.</i>		Yes	56.1%
		FIELD 812	No	43.9%

		FIELD 813		
	PM-98. Were nest boxes or perches periodically maintained and cleaned to maximize predator occupancy, which included cleaning the orchard floor under them before harvest?		Yes	90.7%
			No	9.3%
Ecosystem Management Subsection				
Promotion of Biodiversity		Orchards	Answer Choices	CASP Average Response
EM-01	Were threatened or endangered species that might inhabit the farm identified?		Yes	23.1%
	<i>If there has been no determination of potential threatened/endangered species, then click 'No' and skip to question EM-05.</i>	FIELD 812 FIELD 813	No	76.9%
	EM-02. Were identified threatened or endangered species that might inhabit the farm documented?		Yes	71.5%
			No	28.5%
			Not applicable	
	EM-03. Was habitat for threatened or endangered species that might inhabit the farm property identified?		Yes	90.9%
			No	9.1%
			Not applicable	
	EM-04. Was the farm property managed to protect or enhance habitat for threatened or endangered species (e.g., Safe Harbor Agreement)?		Yes	87.1%
			No	12.9%
			Not applicable	
EM-05	Did the person(s) responsible for pesticide selection and application regularly check county, state or federal sources for endangered species updates that may impact pest management options and, if necessary, modify the selection of products or applications accordingly?	FIELD 812 FIELD 813	Yes	90.1%
			No	9.9%
			Not applicable	
EM-06	Was the value (ecosystem services) of ensuring a high level of appropriate biodiversity (e.g., beneficial wildlife, plants and soil organisms; pollinators; and pest natural enemies) on the farm property understood? <i>If you answered 'No,' then skip to question EM-10.</i>	FIELD 812 FIELD 813	Yes	76.0%
			No	24.0%
	EM-07. Were farmed or landscaped areas managed (e.g., cover crops, low/no tillage, additions of organic matter or landscape plantings) to increase appropriate biodiversity?		Yes	85.5%
		FIELD 812 FIELD 813	No	14.5%
			Not applicable	
	EM-08. Were unfarmed or landscaped areas managed to increase appropriate biodiversity, including beneficial wildlife (e.g., by providing owl and songbird nest boxes, bat boxes or raptor perches)?		Yes	80.6%
		FIELD 812 FIELD 813	No	19.4%
			Not applicable	
	EM-09. Were habitat features on the farm property connected by vegetated corridors and to adjacent properties to provide connectivity for beneficial wildlife?		Yes	71.1%
		FIELD 812 FIELD 813	No	28.9%
			Not applicable	
Conservation Easements		Orchards	Answer Choices	CASP Average Response
EM-10	Were some or all of the natural areas of the farm property protected by a natural resources conservation easement?		Yes	13.2%
		FIELD 812 FIELD 813	No	86.8%
			Not applicable	
EM-11	Were some areas or the entire farm protected by an agricultural conservation easement?		Yes	21.7%
		FIELD 812 FIELD 813	No	78.3%
			Not applicable	
Upland Habitat Maintenance and Enhancement		Orchards	Answer	CASP

		Choices		Average Response
EM-12	Was vegetation such as grasses, trees or shrubs maintained along roadsides, ditch-banks, headlands and/or irrigation canals, to provide habitat for beneficial wildlife and to serve as vegetative filter strips to slow and retain water and filter contaminants?		Yes	60.7%
		FIELD 812 FIELD 813	No	39.3%
			Not applicable	
EM-13	Were beneficial trees (besides almonds) that existed before farm establishment maintained, and/or were beneficial trees planted after establishment (such as along roadsides), to provide habitat for beneficial wildlife?		Yes	58.9%
		FIELD 812 FIELD 813	No	41.1%
			Not applicable	
Riparian and Wetland Habitat Maintenance and Enhancement		Orchards	Answer Choices	CASP Average Response
EM-14	Were riparian habitat, swales, vernal pools or water courses present on the farm property? <i>If you answered 'No,' then skip to question EM-21.</i>		Yes	9.2%
		FIELD 812 FIELD 813	No	90.8%
	EM-15. Were swales managed with setbacks to preserve them and prevent equipment from creating ruts when the soil was wet?		Yes	81.1%
			No	18.9%
			Not applicable	
	EM-16. If vernal pools or water courses existed on the farm property, were setbacks in place to minimize their disturbance?		Yes	95.4%
			No	4.6%
			Not applicable	
	EM-17. Did a water course(s) exist on the farm property? <i>If you answered 'No,' then skip to question EM-21.</i>		Yes	62.8%
			No	37.2%
	EM-18. Were the banks of the water course(s) maintained with resident non-woody vegetation (excluding noxious weeds)?		Yes	92.6%
			No	7.4%
			Not applicable	
	EM-19. Were the banks of the water course(s) maintained with a mix of grasses, trees and shrubs?		Yes	89.3%
			No	10.7%
			Not applicable	
	EM-20. Was there enough canopy cover to adequately shade the water course(s) and support its functions as habitat?		Yes	69.1%
			No	30.9%
			Not applicable	
Ecosystem Management Planning		Orchards	Answer Choices	CASP Average Response
EM-21	Was an environmental survey and map of the farm property completed and have sensitive areas been noted (e.g., swales, waterways, trees, habitat for endangered species and other features)?		Yes	29.1%
		FIELD 812 FIELD 813	No	70.9%
EM-22	Was a documented ecosystem/habitat management plan completed for the farm that includes goals for production areas, goals for managing areas not used for farming or processing, and a monitoring protocol to measure improvement over time?		Yes	26.8%
		FIELD 812 FIELD 813	No	73.2%
Bee Health and Pollination Subsection				
Best Management Practices Guide		Orchards	Answer Choices	CASP Average Response
BP-01	Was the operation aware of the Almond Board's guide, 'Honey Bee Best Management Practices for California Almonds'? <i>If you answered 'No,' then skip to question BP-04.</i>	FIELD 812 FIELD 813	Yes	91.6%
			No	8.4%
	BP-02. Were practices in the guide specific to the internal farm operation used?	FIELD 812 FIELD 813	Yes	95.0%

			No	5.0%
	BP-03. Were practices in the guide relevant to the farm's role in communication and coordination with parties throughout the pollination and pest management communication chain used?	FIELD 812 FIELD 813	Yes	95.1%
			No	4.9%
Agreements with Beekeepers		Orchards	Answer Choices	CASP Average Response
BP-04	Were commercial bees used for pollination on the orchard? <i>If you answered 'No,' then skip to question BP-14.</i>	FIELD 812 FIELD 813	Yes	
			No	
BP-05	Was a pollination agreement executed with the beekeeper? <i>If you answered 'No,' then skip to question BP-08.</i>	FIELD 812 FIELD 813	Yes	86.3%
			No	13.7%
	BP-06. Was the pollination agreement executed with the beekeeper documented?		Yes	88.3%
		FIELD 812 FIELD 813	No	11.7%
	BP-07. Did the agreement stipulate hive strength, potential pesticide applications, and hive removal date? <i>Answer "Yes" if all items were included in the agreement.</i>	FIELD 812 FIELD 813	Yes	90.3%
			No	9.7%
BP-08	Were hives placed at sites not susceptible to pesticide drift from outside sources?	FIELD 812 FIELD 813	Yes	96.6%
			No	3.4%
BP-09	Did the operation ensure that the beekeeper registered locations of the hives with the county agricultural commissioner's office?	FIELD 812 FIELD 813	Yes	72.7%
			No	27.3%
BP-10	Was an inspection completed by the beekeeper, or third party consultant, to ensure expectations for hive strength were met (two hives per acre having an average of eight frames of bees, with six-frame minimum strength is common)?	FIELD 812 FIELD 813	Yes	87.4%
			No	12.6%
BP-11	Were arrangements made with the beekeeper about which pesticides could be applied if daytime applications were necessary while hives were present, and, if an application(s) was necessary, was the beekeeper provided with 48-hour advance notice?	FIELD 812 FIELD 813	Yes	94.9%
			No	5.1%
			Not applicable	
BP-12	Was notification given to the person responsible for pesticide recommendations, as well as the applicator, which and when during the day, pesticides could be applied while hives were present?	FIELD 812 FIELD 813	Yes	97.1%
			No	2.9%
			Not applicable	
BP-13	Were beekeepers advised to remove hives based on timing recommended by the University of California (about 90% of latest blooming variety is at petal fall)?	FIELD 812 FIELD 813	Yes	87.6%
			No	12.4%
Pollinator Risk Mitigation		Orchards	Answer Choices	CASP Average Response
BP-14	Before applying pesticides to the orchard during bloom, were beekeepers with hives on nearby properties notified using an appropriate communication method (e.g., through the County Ag Commissioner, BeeWhere, CalAgPermits, etc.)? <i>Answer 'Not Applicable' if you do not spray anything during bloom.</i>	FIELD 812 FIELD 813	Yes	79.0%
			No	21.0%
			Not applicable	
BP-15	Did the operation ensure that pesticides with label cautions "highly toxic to bees," "toxic to bees," "residual times," or "extended residual toxicity" were not used during bloom? <i>Answer 'Yes' if no pesticides are applied during bloom.</i>	FIELD 812 FIELD 813	Yes	97.7%
			No	2.3%
BP-16	Except for possibly Bacillus thuringiensis, did the operation ensure that insecticides (including tank mixes with fungicides) were not applied during bloom? <i>Answer 'Yes' if no pesticides are applied during bloom.</i>	FIELD 812 FIELD 813	Yes	92.5%
			No	7.5%

BP-17	During bloom, were necessary fungicides (or Bacillus thuringiensis) applied in the late afternoon or evening when bees and pollen were not present?	FIELD 812 FIELD 813	Yes	97.3%
			No	2.7%
			Not applicable	
BP-18	Was abundant potable water, free from contamination, provided for bees?	FIELD 812 FIELD 813	Yes	91.4%
			No	8.6%
BP-19	Were water sources for pollinator bees covered before or replaced after pesticide applications?		Yes	94.6%
			No	5.4%
		FIELD 812 FIELD 813	Not applicable	
BP-20	Was the orchard manager familiar with common symptoms of honey bee exposure to pesticides?	FIELD 812 FIELD 813	Yes	95.1%
			No	4.9%
BP-21	If incidences of possible pesticide-related bee incidences were observed, were they immediately reported to the county agricultural commissioner's office?		Yes	94.5%
			No	5.5%
		FIELD 812 FIELD 813	Not applicable	
BP-22	Before applying pesticides to the orchard anytime of the year, were beekeepers with hives on nearby properties notified using an appropriate communication method (e.g., through the County Ag Commissioner, BeeWhere, CalAgPermits, etc.)?	FIELD 812 FIELD 813	Yes	80.1%
			No	19.9%
Alternative Forage for Pollinators		Orchards	Answer Choices	CASP Average Response
BP-23	Were hedgerows of flowering shrubs, such as coyote brush, maintained along at least some edges of the farm to provide alternative nutrition sources for managed and native pollinators and pest natural enemies?		Yes	47.7%
		FIELD 812 FIELD 813	No	52.3%
			Not applicable	
BP-24	Was vegetation maintained on or adjacent to the farm that provided pollen and nectar sources for pollinator bees before and/or after almond bloom (includes nutritional ground cover)? If you answered 'No' or 'Not Applicable', then skip to question BP-27.	FIELD 812 FIELD 813	Yes	64.4%
			No	35.6%
			Not applicable	
	BP-25. Have natural habitat areas or set aside plantings with flowering plants and/or nesting habitat for managed and native pollinators been established or maintained in unfarmed areas on or within 2 miles of the orchard?		Yes	85.5%
FIELD 812 FIELD 813		No	14.5%	
	BP-26. Has cover crop recommended for providing forage to pollinators (e.g., mustards, clovers, vetch and/or wildflowers) been planted in an adjacent, neighboring field within 2 miles of the orchard?		Yes	76.9%
FIELD 812 FIELD 813		No	23.1%	
BP-27	Was the combined acreage of hedgerows and other vegetation types, such as natural habitat areas, set aside plantings, and/or adjacent cover crops, equivalent to at least 3% of the orchard planted area?	FIELD 812 FIELD 813	Yes	47.8%
			No	52.2%
Energy Efficiency and Air Quality Subsection				
Clean-Energy Sourcing		Orchards	Answer Choices	CASP Average Response
EA-01	Did on-site renewable energy sources (e.g., solar, wind, biogas digester or fuel cells) supply at least some electricity or heat requirements? If you answered 'No,' then skip to question EA-05.		Yes	40.0%
		FIELD 812 FIELD 813	No	60.0%
	EA-02. Was on-site solar energy used to generate electricity or heat (e.g., hot water or processing heat)?		Yes	93.9%
		No	6.1%	
	EA-03. Was on-site wind power used to generate electricity?		Yes	3.6%

			No	96.4%
	EA-04. Was an on-site biogas digester(s) or fuel cell(s) used to generate electricity or heat?		Yes	2.3%
			No	97.7%
EA-05	Did the operation contract with its electrical utility to receive more than the standard blend of the electricity requirement from renewable sources (e.g., PG&E Solar Choice (TM) or SMUD Greenergy (R) programs)?	FIELD 812 FIELD 813	Yes	23.7%
			No	76.3%
			Not applicable	
Vehicles and Equipment		Orchards	Answer Choices	CASP Average Response
EA-06	Were lighter vehicles used for road trips not requiring a large vehicle (small pickup instead of a large pickup, car instead of a pickup, etc.)?	FIELD 812 FIELD 813	Yes	78.1%
			No	21.9%
			Not applicable	
EA-07	Instead of tractors or larger vehicles, were bicycles or vehicles with smaller motors/engines (e.g., ATVs, motorcycles, golf carts, and self-propelled light-spray rigs) used for on-site transportation requiring less horsepower?	FIELD 812 FIELD 813	Yes	95.6%
			No	4.4%
			Not applicable	
EA-08	Were calculated horsepower needs and fuel efficiency factored into purchasing decisions for tractors or other heavy, fuel-powered equipment?		Yes	92.3%
			No	7.7%
		FIELD 812 FIELD 813	Not applicable	
EA-09	Were zero emission vehicles (e.g., electric, hydrogen) used by the business?	FIELD 812 FIELD 813	Yes	33.8%
			No	66.2%
EA-10	Were engine emissions reduced by retrofitting/replacing diesel engines to Tier 3 or 4 standards?		Yes	83.4%
			No	16.6%
		FIELD 812 FIELD 813	Not applicable	
EA-11	Were diesel engines replaced (or retrofitted) with technology relying on cleaner-burning fuel (e.g., propane, natural gas or biodiesel) or electricity?		Yes	36.5%
			No	63.5%
		FIELD 812 FIELD 813	Not applicable	
EA-12	Was a plan implemented to minimize passes by equipment and motorized vehicles in the orchard?	FIELD 812 FIELD 813	Yes	93.1%
			No	6.9%
			Not applicable	
EA-13	Was selection of stationary power equipment based, in part, on emissions ratings (e.g., electric motors instead of diesel engines for pumping systems)?	FIELD 812 FIELD 813	Yes	86.4%
			No	13.6%
			Not applicable	
Above-Ground Fuel Storage Tanks		Orchards	Answer Choices	CASP Average Response
EA-14	Did the operation have above-ground fuel storage tanks? <i>If you answered 'No,' then skip to question EA-19.</i>		Yes	66.5%
		FIELD 812 FIELD 813	No	33.5%
	EA-15. Were all above-ground fuel storage tanks painted/coated white or aluminum to reflect solar radiation?		Yes	88.5%
			No	11.5%
	EA-16. Were all above-ground fuel storage tanks shaded?		Yes	37.2%

			No	62.8%
	EA-17. Were pressure-relief vacuum caps used by all above-ground fuel storage tanks rather than conventional caps?		Yes	79.7%
			No	20.3%
	EA-18. Were all above-ground fuel storage tanks concrete-lined 'vault' tanks or other type of highly insulated tanks, e.g., ConVault (R), Fireguard (R) or SuperVault (TM)?		Yes	42.7%
			No	57.3%
Waste Management		Orchards	Answer Choices	CASP Average Response
EA-19	Do you reduce, reuse, or recycle non-crop waste? (Examples could include recycling of pesticide containers, reuse of bins, recycling of used irrigation lines.)	FIELD 812 FIELD 813	Yes	94.1%
			No	5.9%
EA-20	Were prunings used productively (e.g., chipped or composted and used on-site, used for energy generation or used on unpaved roads) and not burned?	FIELD 812 FIELD 813	Yes	85.0%
			No	15.0%
			Not applicable	
Unpaved Surfaces		Orchards	Answer Choices	CASP Average Response
EA-21	Did unpaved roads have posted speed limits of 15 mph or less to reduce dust generation?		Yes	62.7%
		FIELD 812 FIELD 813	No	37.3%
			Not applicable	
EA-22	Were applications of water or organic dust suppressants (e.g., road oil or polymers) made or was layering of mulches, chips (during winter), sand or gravel used on unpaved roads and/or on unpaved equipment yards?		Yes	87.6%
		FIELD 812 FIELD 813	No	12.4%
			Not applicable	
EA-23	Were orchard floor management techniques used to reduce tractor passes and associated energy use (e.g., judicious use of preemergent herbicides to reduce the passes needed for weed management)?	FIELD 812 FIELD 813	Yes	97.9%
			No	2.1%
			Not applicable	
Harvest		Orchards	Answer Choices	CASP Average Response
EA-24	Did year-round floor management result in a smooth, level, and clean orchard floor at harvest, to help optimize harvest efficiency and minimize dust? <i>Answer Not Applicable for an orchard that is not being harvested, e.g., a young orchard that is not yet bearing. If you answered, 'Not Applicable,' then skip to question EA-44.</i>	FIELD 812 FIELD 813	Yes	99.1%
			No	0.9%
			Not applicable	
EA-25	Was a harvest dust management plan implemented that ensured operators of sweepers and pickup machines (including custom harvesters) and others involved in harvest activities were appropriately trained before harvest?	FIELD 812 FIELD 813	Yes	88.7%
			No	11.3%
EA-26	How many sweeper blower passes were used?		0 (sweeper not used)	0.6%
		FIELD 812 FIELD 813	1	9.6%
			2	73.2%
			3 or more	16.6%
EA-27	Did sweeper and pickup machine passes and travel direction direct dust into tree canopies (filter mechanism) and away from roads, homes and other sensitive locations such as schools, hospitals and day care centers?	FIELD 812 FIELD 813	Yes	99.0%
			No	1.0%
			Not applicable	
EA-28	If adjacent to a public road, were traffic signs warning of low visibility posted along the roads during sweeping and pickup activities?		Yes	77.8%
		FIELD 812	No	22.2%

		FIELD 813		
			Not applicable	
EA-29	If adjacent to a public road, did sweeping and pickup activities occur when road traffic was at a minimum?	FIELD 812 FIELD 813	Yes	91.4%
			No	8.6%
			Not applicable	
EA-30	To reduce dust, was the sweeper head set at the manufacturer-recommended height (not lower)?	FIELD 812 FIELD 813	Yes	97.9%
			No	2.1%
			Not applicable	
EA-31	Was the angle of the sweeper blower spout and speed of the fan adjusted to match orchard conditions so only nuts were moved and not soil?	FIELD 812 FIELD 813	Yes	99.6%
			No	0.4%
			Not applicable	
EA-32	Were harvest sweepers designed to minimize passes and reduce dust used (e.g., sweepers with a mounted berm brush)?	FIELD 812 FIELD 813	Yes	87.9%
			No	12.1%
			Not applicable	
EA-33	Was groundspeed for conventional pickup machines lowered to match local conditions (e.g., 1.5 mph instead of 3 mph)?	FIELD 812 FIELD 813	Yes	88.6%
			No	11.4%
			Not applicable	
EA-34	Was a conditioner used prior to using a harvester for pickup? <i>If you answered 'No,' then skip to question EA-36.</i>		Yes	51.6%
		FIELD 812 FIELD 813	No	48.4%
	EA-35. What was the approximate percent (%) of acreage that was conditioned?		1-25%	5.7%
			26-50%	6.8%
			51-75%	11.3%
			76-99%	32.2%
			All (100%)	44.0%
EA-36	Was dust reduced by setting head heights for pickup machines to optimum levels based on local conditions (not too low)?	FIELD 812 FIELD 813	Yes	98.5%
			No	1.5%
			Not applicable	
EA-37	Was at least one type of low-dust harvester used? <i>If you answered 'No,' then skip to question EA-44.</i>		Yes	51.8%
		FIELD 812 FIELD 813	No	48.2%
	Which type(s) of low-dust harvester(s) were used? <i>Answer 'yes' to all that apply.</i>			
	EA-38. Pull-behind PTO or self-propelled low-dust harvester.		Yes	93.9%
			No	6.1%
	EA-39. Low-dust retrofit technology for harvester (e.g., cyclone separator).		Yes	29.0%
			No	71.0%
	EA-40. Off-ground harvester (off-floor harvesting). <i>If you answered 'No,' then skip to question EA-44</i>		Yes	8.5%
			No	91.5%
	If nuts were harvested using off-ground harvesting equipment, please select the scenario that best describes the overall harvesting practice: <i>Answer 'Yes' to the best fit.</i>			
	EA-41. Off-ground equipment was used to reallocate the nuts directly to the windrow,			

	followed by a low dust or conventional harvester (avoiding use of a sweeper and/or conditioner).		Yes	35.7%
			No	64.3%
	EA-42. Nuts were naturally dried on-ground outside of the orchard with pick-up using a standard harvester.		Yes	90.6%
			No	9.4%
	EA-43. Nuts never touched the ground prior to arriving at the processing facility, and nuts were mechanically dried.		Yes	16.3%
			No	83.7%
EA-44	Did this orchard stockpile nuts (in the orchard or elsewhere)? <i>If you answered 'No,' then skip the remaining questions in this subsection.</i>		Yes	30.6%
		FIELD 812 FIELD 813	No	69.4%
	EA-45. Were traceability procedures followed when creating stockpiles?		Yes	96.7%
			No	3.3%
			Not applicable	