

California Almond Sustainability Program Self-Assessment Answer Sheet



Assessed By _____ Orchard/Block _____ Date _____

Practice or Metric		Your Selection
Irrigation Improvement Continuum Module		
Orchard Water Requirements		
01	Water requirements were based on almond orchard evapotranspiration (ETc). <i>If No, then click 'No' and skip questions 2 through 5.</i>	<input type="radio"/> Yes <input type="radio"/> No
	02. Was historical (normal year) ETc adjusted for weather and, if applicable, cover crops?	<input type="radio"/> Yes <input type="radio"/> No
	03. Monthly water requirements were based on historical (normal year) regional ETc values.	<input type="radio"/> Yes <input type="radio"/> No
	04. Semi-monthly (every two weeks) water requirements were based on historical (normal year) regional ETc values.	<input type="radio"/> Yes <input type="radio"/> No
	05. Weekly water requirements were based on historical (normal year) regional ETc and were adjusted for actual ETc from the previous week.	<input type="radio"/> Yes <input type="radio"/> No
Irrigation System Performance		
06	Irrigation system performance (application rate or pressures) was evaluated at least once during the past 3 years and any diagnosed problems were corrected. <i>If No, then click 'No' and skip to question 11.</i>	<input type="radio"/> Yes <input type="radio"/> No
	07. Average application rate was evaluated at least once within the past 3 years.	<input type="radio"/> Yes <input type="radio"/> No
	08. Variation in system pressure was evaluated at least once within the past 3 years. <i>If flood/furrow system, then answer 'Not applicable'.</i>	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable
	09. Distribution uniformity based on measured water volume and application rate was evaluated at least once within the past 3 years.	<input type="radio"/> Yes <input type="radio"/> No
	10. Distribution uniformity based on measured water volume and application rate was evaluated at least once within the past 2 years	<input type="radio"/> Yes <input type="radio"/> No
Applied Water		
11	Water applied was measured and recorded for the entire season. <i>If No, then click 'No' and skip to question 15.</i>	<input type="radio"/> Yes <input type="radio"/> No
	12. Applied water for each irrigation event was calculated from application rate and duration, and recorded.	<input type="radio"/> Yes <input type="radio"/> No
	13. Flow meter readings were recorded for each irrigation set, each time it was run. <i>If 'No', or 'Not applicable' skip to question 15</i>	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable
	14. Applied water was compared to crop water use (ETc, evapotranspiration) for the entire season to validate irrigation efficiency.	<input type="radio"/> Yes <input type="radio"/> No
Soil Moisture		
15	Soil moisture (by feel, or by sensors) was monitored at least every month during the irrigation season. <i>If No, then click 'No' and skip to question 19.</i>	<input type="radio"/> Yes <input type="radio"/> No

	16. Auger samples were taken and evaluated to a depth of at least 3-5 feet using NRCS guidelines.	<input type="radio"/> Yes <input type="radio"/> No
	17. Moisture monitoring was done at least every two weeks to a depth of at least 3-5 feet using manually operated soil sensors, and results were used to ensure that calculated water amounts were not over/under irrigating.	<input type="radio"/> Yes <input type="radio"/> No
	18. Moisture monitoring was done weekly to a depth of at least 3-5 feet using automated soil sensors, and results were used to ensure that calculated water amounts were not over/under irrigating.	<input type="radio"/> Yes <input type="radio"/> No
Plant Water Status		
19	Visual cues of plant stress were evaluated at least every other week prior to irrigation.	<input type="radio"/> Yes <input type="radio"/> No
20	At least monthly prior to irrigation, plant water status was evaluated using pressure chambers to measure midday stem water potential, and measurements were compared to applied water to ensure trees were not over/under irrigated.	<input type="radio"/> Yes <input type="radio"/> No
21	At least weekly prior to irrigation, plant water status was evaluated using pressure chambers to measure midday stem water potential, and measurements were compared to applied water to ensure trees were not over/under irrigated.	<input type="radio"/> Yes <input type="radio"/> No
22	The first irrigation of the season was based on pressure chamber measurements.	<input type="radio"/> Yes <input type="radio"/> No