National and State Resource Concerns and Quality Criteria					
Natural Resource Concern	**Description of Concern**	**National Quality Criteria**	**California State Quality Criteria**	**Assessment Tools for Quality Criteria Evaluation**	**Evaluation and Assessment Tools (Indicate status of resource quality at site and identify specific resource concerns**
ENERGY					
Inefficient Energy Use - Equipment & Facilities	Inefficient use of energy in the farm operation increases dependence on non-renewable energy sources that can be addressed through improved energy efficiency and the use of on-farm renewable energy sources. Includes: Pumping plants, on-farm processing and/or storage such as greenhouses, grain drying, refrigeration units, maple syrup processing.	Not Available	Energy use is evaluated and energy efficiency, energy conservation, and renewable energy production opportunities are identified.	Client Interview-CPEQ form, Energy Estimator Tools[1], Energy Conservation Tools[2], Renewable Energy Tools[3], NREL Renewable Energy Atlas[4] Solar Tools: IMBY[5], NREL Solar Power Prospector[6], NREL PV Watts[7], Solarbuzz[8], DSIRESOLAR[9], Find Solar[10]	Units: % / yr Energy Efficiency-Percentage energy reduction per year (i.e. kWh's, Btu's, gallons, etc.) Renewable Energy-Percentage increase of renewable energy use per year

[1] NRCS Energy Estimator Tools: http://energytools.sc.egov.usda.gov/
[2] NRCS Energy Conservation Tools: http://www.ruralenergy.wisc.edu/conservation/default.aspx
[3] NRCS Renewable Energy Tools: http://www.ruralenergy.wisc.edu/renewable/default.aspx
[4] NREL Renewable Energy Atlas: http://maps.nrel.gov/reatlas
[5] NREL IMBY (In My Back Yard) Tool: http://mercator.nrel.gov/imby/
[6] NREL Solar Power Prospector: http://maps.nrel.gov/node/10/
[7] NREl PV Watts: http://www.nrel.gov/rredc/pvwatts/
[8] Solarbuzz: www.solarbuzz.com
[9] DSIRE Solar: www.dsire.org
[10] Find Solar: www.findsolar.com

National and State Resource Concerns and Quality Criteria					
Natural Resource Concern	**Description of Concern**	**National Quality Criteria**	**California State Quality Criteria**	**Assessment Tools for Quality Criteria Evaluation**	**Evaluation and Assessment Tools (Indicate status of resource quality at site and identify specific resource concerns**
ENERGY					
Inefficient Energy Use - Farming ranching Practices and Field Operations	Inefficient use of energy in field operations increases dependence on non-renewable energy and sources that can be addressed through improved energy efficiency and the use of on-farm renewable energy sources.	Not Available	Energy use is evaluated and energy efficiency, energy conservation, and renewable energy production opportunities are identified.	Client Interview form (CPEQ), Energy Estimator Tools[11], Energy Conservation Tools[12] Renewable Energy Tool[13], WEPS[14], RUSLE2[15], NREL BioPower Atlas[16], NREL BioFuel Atlas[17], NREL Renewable Energy Atlas[18], Farmware[19], Biomass Feedstock Composition and Property Database[20], COMET-VR 2.0[21], Nitrogen Index[22], WIN PST[23] Solar Tools: IMBY[24], NREL Solar Power Prospector[25], NREL PV Watts[26], Solarbuzz[27], DSIRESOLAR[28], Find Solar[29]	Units: % / yr Energy Efficiency- Percentage energy reduction per year (i.e. kWh's, Btu's, gallons, etc.) Renewable Energy- Percentage increase of renewable energy use per year

[11] NRCS Energy Estimator Tools: http://energytools.sc.egov.usda.gov/
[12] NRCS Energy Conservation Tools: http://www.ruralenergy.wisc.edu/conservation/default.aspx
[13] NRCS Renewable Energy Tools: http://www.ruralenergy.wisc.edu/renewable/default.aspx
[14] WEPS (Wind Erosion Prediction System): http://www.weru.ksu.edu/
[15] RUSLE2: http://fargo.nserl.purdue.edu/rusle2_dataweb/RUSLE2_Index.htm
[16] NREL BioPower Atlas: http://rpm.nrel.gov/biopower/biopower/launch
[17] NREL BioFuel Atlas: http://maps.nrel.gov/biomass
[18] NREL Renewable Energy Atlas: http://maps.nrel.gov/reatlas
[19] Farmware (Anerobic Digestion): http://www.epa.gov/agstar/tools/project-dev/farmware.html
[20] Biomass Feedstock Composition and Property Database: http://www1.eere.energy.gov/biomass/feedstock_databases.html
[21] COMET-VR 2.0: http://www.comet2.colostate.edu/
[22] Nitrogen Index https://nrcs.sc.egov.usda.gov/west/ca/rts/Nitrogen%20Index%20Training%20Materials/Forms/AllItems.aspx
[23] WIN PST: http://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/?ss=16&navtype=SubNavigation&cid=stelprdb1044769&navid=120160370000000&pnavid=120160000000000&position=Not%20Yet%20Determined.Html&ttype=detailfull&pname=Windows%20Pesticide%20Screening%20Tool%20WIN-PST%25
[24] NREL IMBY (In My Back Yard) Tool: http://mercator.nrel.gov/imby/
[25] NREL Solar Power Prospector: http://maps.nrel.gov/node/10/
[26] NREl PV Watts: http://www.nrel.gov/rredc/pvwatts/
[27] Solarbuzz: www.solarbuzz.com
[28] DSIRE Solar: www.dsire.org
[29] Find Solar: www.findsolar.com