

## North Santa Clara RCD — CDFA State Water Efficiency & Enhancement Program (SWEEP) Cost Estimator

*SWEEP is a cost-reimbursement grant — producers submit actual invoices. No fixed per-unit rate schedule exists. This estimator uses typical California project cost ranges. Enter projected producers & estimated grant request per producer to estimate program totals.*

**KEY PROGRAM RULES:** Max grant per producer: \$200,000 | Max labor: 25% of budget | Max cumulative SWEEP lifetime award per producer: \$600,000 | BGR admin cap: 15% of block grant | Reimbursement-based; 10% withheld until verified complete | Projects must quantify water savings AND GHG reductions

Eligible Practice / Project Component (NRCS CPS Reference)	Payment Method	Typical Cost Range (\$/unit, CA agriculture)	Typical Unit	Projected # of Producers (Enter here ▼)	Est. Grant Request per Producer (\$) (Enter here ▼)	Est. Total Grant Requests (\$)	Notes / Key Requirements
<b>IRRIGATION WATER MANAGEMENT (NRCS CPS 449)</b>							
Soil Moisture Monitoring Sensors (tensiometers, capacitance probes, etc.)	Cost Reimbursement (Actual invoice)	\$500 – \$3,000/sensor	Per sensor	2	\$4,500	\$9,000	Flow meter required for all projects. Must reduce water use & GHG. Quantify savings with SWEEP PAT or CARB GHG calculator.
Weather Station / In-field ET Station	Cost Reimbursement (Actual invoice)	\$3,000 – \$8,000/station	Per station	2	\$6,000	\$12,000	Supports precision irrigation scheduling; document baseline energy & water use.
Flow Meters / Water Measurement Devices	Cost Reimbursement (Actual invoice)	\$500 – \$5,000/meter	Per meter	2	\$2,500	\$5,000	Flow meters <b>REQUIRED</b> for all SWEEP projects. May be stand-alone or part of larger system.
Irrigation Automation & Controllers	Cost Reimbursement (Actual invoice)	\$2,000 – \$15,000/system	Per system	2	\$8,000	\$16,000	Include remote monitoring capability where feasible. Document projected water savings.
<b>IRRIGATION SYSTEM – MICROIRRIGATION (NRCS CPS 441)</b>							
Drip Irrigation Conversion – Surface (row crops, field crops)	Cost Reimbursement (Actual invoice)	\$500 – \$3,000/acre	Per acre	1	\$25,000	\$25,000	Converting from flood/sprinkler to drip. Must demonstrate water savings using SWEEP tools.
Drip Irrigation – Subsurface (SDI) (orchards, vineyards, permanent crops)	Cost Reimbursement (Actual invoice)	\$1,000 – \$4,000/acre	Per acre	0	\$40,000	\$0	Higher upfront cost; strong GHG & water savings. Include design plans with application.
Microirrigation – Tree/Vine Crops (micro-sprinklers, bubblers, emitters)	Cost Reimbursement (Actual invoice)	\$800 – \$2,500/acre	Per acre	1	\$30,000	\$30,000	Includes emitter upgrades and distribution system improvements.
Pressure Regulators & Low-Pressure Component Retrofits	Cost Reimbursement (Actual invoice)	\$200 – \$1,500/acre	Per acre	2	\$8,000	\$16,000	Retrofitting existing systems to lower pressure saves significant energy and reduces GHG.
<b>SPRINKLER SYSTEM (NRCS CPS 442)</b>							
Sprinkler System Upgrade / Retrofit (LEPA, LESA, low-drift nozzles)	Cost Reimbursement (Actual invoice)	\$300 – \$1,200/acre	Per acre	0	\$15,000	\$0	Upgrade to more efficient nozzles or low-pressure drop nozzles. Document baseline system.
Center Pivot / Linear Move Improvements	Cost Reimbursement (Actual invoice)	\$20,000 – \$80,000/system	Per system	0	\$50,000	\$0	Variable-rate irrigation capability preferred. GHG and water quantification required.

PUMPING PLANT (NRCS CPS 553)							
Pump Repair or Replacement (electric pump upgrade)	Cost Reimbursement (Actual invoice)	\$5,000 – \$50,000/pump	Per pump	2	\$20,000	\$40,000	Pump efficiency test REQUIRED before application. Must improve efficiency rating.
Variable Frequency Drive (VFD) Installation	Cost Reimbursement (Actual invoice)	\$3,000 – \$15,000/unit	Per unit		\$10,000		Reduces energy use by matching pump output to demand. Significant GHG reductions.
Combustion Engine to Electric Motor Conversion (NRCS CPS 372)	Cost Reimbursement (Actual invoice)	\$15,000 – \$75,000/pump	Per pump		\$35,000		Diesel-to-electric conversion yields large GHG reductions. Energy records for last 12 months required.
COMBUSTION SYSTEM IMPROVEMENT – RENEWABLE ENERGY (NRCS CPS 372)							
Solar Photovoltaic System (to power irrigation pump)	Cost Reimbursement (Actual invoice)	\$2,500 – \$4,500/kW	Per kW installed		\$40,000		Must power irrigation system; reduces GHG from fossil fuel use. Interconnect fees eligible.
Fuel Conversion (propane/diesel → electric or renewable)	Cost Reimbursement (Actual invoice)	\$10,000 – \$60,000/project	Per project		\$30,000		Document baseline fuel consumption. Quantify GHG reductions with CARB calculator.
IRRIGATION PIPELINE (NRCS CPS 430)							
Open Ditch to Pipe Conversion	Cost Reimbursement (Actual invoice)	\$5,000 – \$20,000/acre-ft capacity	Per project	0	\$30,000	\$0	Reduces conveyance losses and evaporation. Quantify water savings.
IRRIGATION DITCH LINING (NRCS CPS 428)							
Irrigation Ditch Lining (concrete, plastic membrane)	Cost Reimbursement (Actual invoice)	\$10 – \$50/linear ft	Linear ft	0	\$20,000	\$0	Reduces seepage losses. Include engineering design with application.
IRRIGATION RESERVOIR (NRCS CPS 436)							
On-Farm Water Storage (rainwater capture, surface reservoir)	Cost Reimbursement (Actual invoice)	\$50,000 – \$200,000/project	Per project	0	\$80,000	\$0	Supports irrigation scheduling flexibility. Cannot expand groundwater wells.
WATER HARVESTING CATCHMENT (NRCS CPS 636)							
Water Harvesting / Catchment System	Cost Reimbursement (Actual invoice)	\$5,000 – \$40,000/project	Per project	0	\$20,000	\$0	Captures runoff for reuse. Must demonstrate water savings and GHG benefit.
STRUCTURE FOR WATER CONTROL (NRCS CPS 587)							
Water Control Structures (tailwater recovery, recycling)	Cost Reimbursement (Actual invoice)	\$5,000 – \$30,000/project	Per project	0	\$15,000	\$0	Tailwater recovery reduces applied water. Supports recycled/surface water use.
IRRIGATION LAND LEVELING (NRCS CPS 464)							
Precision Land Leveling (laser-guided, improves distribution uniformity)	Cost Reimbursement (Actual invoice)	\$300 – \$800/acre	Per acre	0	\$20,000	\$0	Improves irrigation distribution uniformity. Engineering design required.
SALINITY AND SODIC SOIL MANAGEMENT (NRCS CPS 610)							

Salinity Management Practices (leaching, amendment application)	Cost Reimbursement (Actual invoice)	\$500 – \$3,000/acre	Per acre	0	\$10,000	\$0	Must be tied to irrigation efficiency improvement. Soil testing documentation required.
<b>COMPLEMENTARY SOIL MANAGEMENT PRACTICES</b> (Bonus scoring — increases water-holding capacity)							
Cover Cropping (as part of SWEEP project)	Cost Reimbursement (Actual invoice)	\$100 – \$200/acre	Per acre	2	\$5,000	\$10,000	+1 scoring point if included. Increases soil water-holding capacity; reduces irrigation demand.
Compost Application (as part of SWEEP project)	Cost Reimbursement (Actual invoice)	\$60 – \$80/ton applied	Per ton	0	\$5,000	\$0	+1 scoring point if included. Soil OM increase reduces irrigation needs.
<b>ESTIMATED TOTAL SWEEP GRANT REQUESTS — All Practices</b>						<b>\$163,000</b>	

**⚠️ REMINDER: Max SWEEP grant per producer = \$200,000. If 'Est. Grant Request per Producer' in any row exceeds \$200,000, adjust to reflect the program cap. Projects may combine multiple components into one application. Labor costs must not exceed 25% of any individual project budget.**

NOTES: Blue cells (columns E & F) are editable. Column F reflects the estimated SWEEP grant amount requested per producer, not the full project cost (producers typically contribute matching funds for costs above the grant award). Cost ranges in Column C are reference benchmarks based on typical California agricultural projects; actual costs vary by operation size, system type, and site conditions. SWEEP is a reimbursement program — all payments are made after producers submit invoices for completed, verified work. Source: CDFA SWEEP Program guidelines, NRCS CPS standards, and UC ANR resources.