

Napa Valley Subbasin Groundwater Pumping Reduction Workplan Implementation Update

Napa County GSA TAG Meeting

Overview

1. GPR Implementation
2. NCGSA Water Conservation Certification Program:
Structure and Minimum Requirements
 - Water Conservation Practices
 - Verification
 - Water savings and program evaluation
 - Incentives and outreach
3. Benchmark Program Development
4. Next Steps



GROUNDWATER PUMPING REDUCTION WORKPLAN

Groundwater Pumping Reduction

Guiding Framework:

- Focus on voluntary actions that achieve groundwater benefits for the Subbasin
- Assess the costs and benefits of alternative actions and focus on those that are most cost-effective
- Leverage existing programs and opportunities to generate value from a suite of voluntary actions
- Include adaptive management to adjust the program as data and sustainability indicators evolve

Development & Implementation Timeline

Component/Activity	Q1 24	Q2 24	Q3 24	Q4 24	Q1 25	Q2 25
Component 1: Education and Outreach; Feasibility Analysis						
Educational Materials	D	I	I	I	I	I
Partnership Building	D	D	D	D	I	I
Messaging System	D	D	I	I	I	I
Feasibility Analysis	D	D	I	I	I	I
Component 2: Voluntary Adoption						
Incentivize Adoption	D	D	I	I	I	I
Benchmarking Pilot Program	D	D	D	D	I	I
Meter Data and Reporting Program	D	D	D	D	I	I
Component 3: Voluntary Certification						
Incentivize Certification	D	D	D	D	D	I

D = Development, I = Implementation

Implementation Progress

Component/Activity	Work-in-Progress
Component 1: Education and Outreach; Feasibility Analysis	
Educational Materials	✓
Partnership Building	✓
Messaging System	
Feasibility Analysis	
Component 2: Voluntary Adoption	
Incentivize Adoption	✓
Benchmarking Pilot Program	✓
Meter Data and Reporting Program	✓
Component 3: Voluntary Certification	
Incentivize Certification	✓

- GPR Workplan implementation components are all integrated
 - Voluntary certification, benchmarking, data, water conservation practices are all part of education and outreach

What are we working on currently?

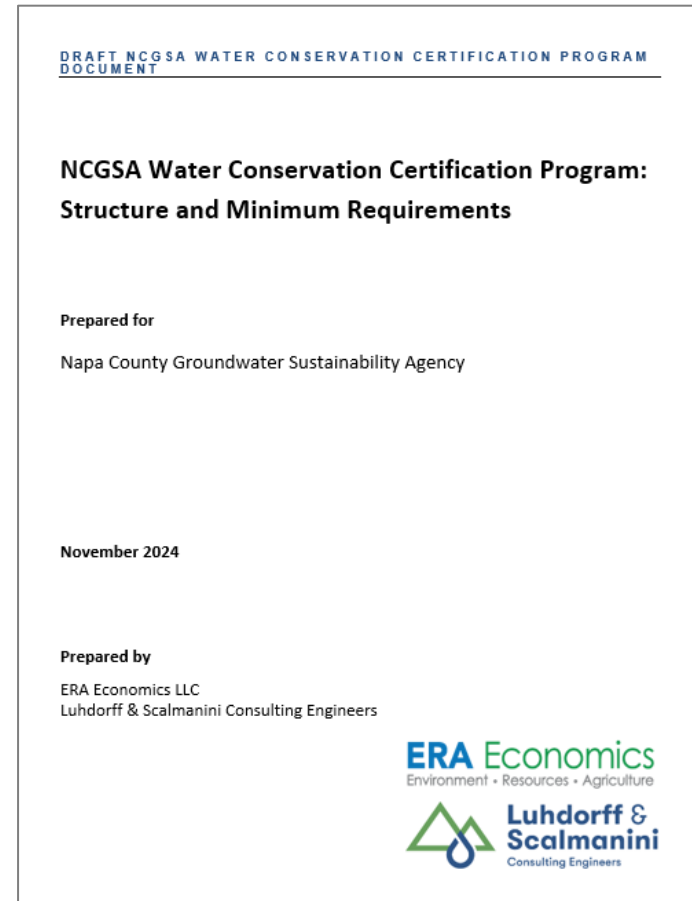
1. Finishing draft certification program guidelines (today's presentation) **with stakeholder input**
 - Continued industry input for program design
 - Continued certification program feedback
 - TAG and other public input
2. Developing benchmarking program framework
3. Education, outreach, and parallel programs
 - Benchmarking
 - Outreach
 - Incentives
 - Cost-effectiveness analysis considering supply options



NCGSA WATER CONSERVATION CERTIFICATION PROGRAM: STRUCTURE AND MINIMUM REQUIREMENTS

Water Conservation Certification Guidelines

- Voluntary certification program for water conservation practices to support sustainable groundwater conditions in the Napa Valley Subbasin
- Framework defines minimum standards and structure for partnering with existing certification programs



How will the program work?

- NCGSA Water Conservation Certification Program (WCCP) defines minimum requirements
 - NCGSA works with one or more partner programs to implement the program
- Partner certification program(s):
 - Implements the certification program
 - Specifies details that work with their programs, as long as NCGSA minimum requirements are met
 - Manage audits, data, reporting and similar processes
- Vineyards/wineries:
 - Choose to enroll with one or more partner certification programs
 - Implement practices
- Incentives are being developed in a separate document
 - Presented at future TAG meetings

Program Highlights



Practices: water management, reporting, recycling, and wastewater use

Metering: required after 3-year transition period

Verification: required through a third-party audit

Data Reporting: certification program manages data and reports aggregate use (protects individual operation data)

Calculations: estimations of water savings for practices implemented

Reporting: aggregate measures of impact across Napa Valley Subbasin

Overview of Practices

Vineyard Water Conservation Practices

- Water Metering/Measurement
- Irrigation Efficiency
- Distribution Uniformity
- Recycled Water
- Agronomic Management Practices
- Planting Design Practices

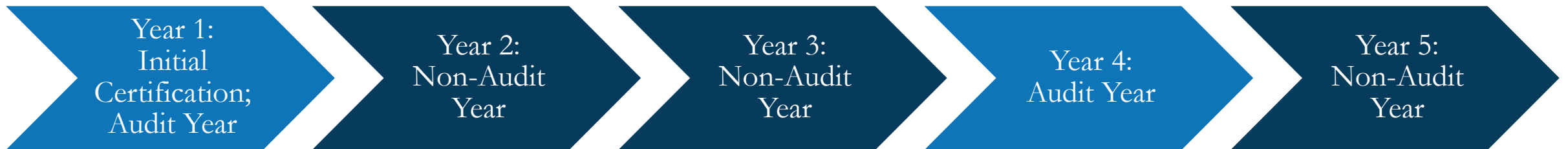
Winery Water Conservation Practices

- Water Metering/Measurement
- Waterwise Winery Processes
- Processing Water Treatment and Reuse

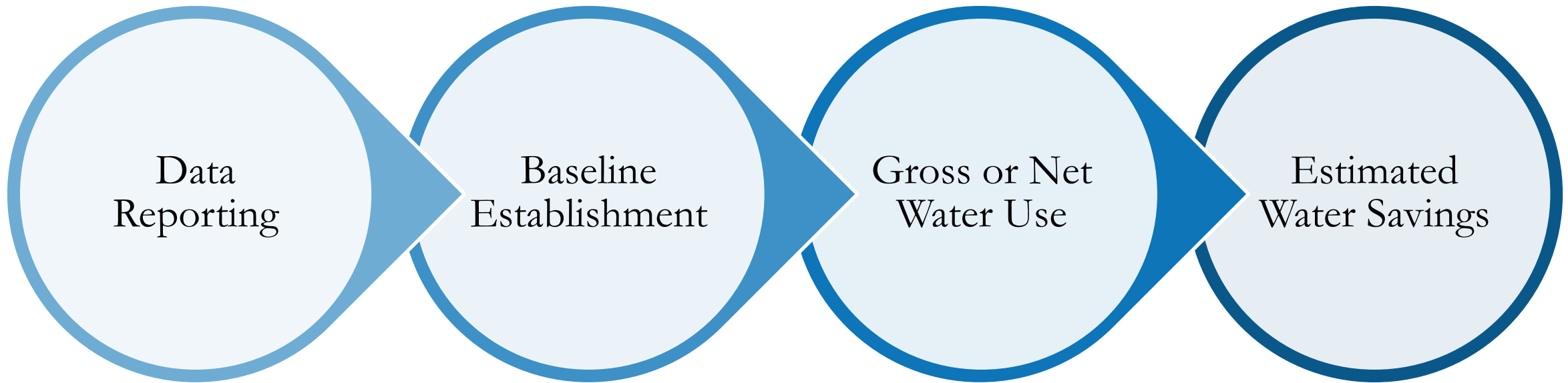
Overview of Verification

- To become certified (and qualify for any incentives), water conservation practices must be verified.
- The partner certification program(s) will ensure that certified vineyards and wineries meet requirements, develop documentation each year, and complete third-party audits.
- Verification of water conservation practices must be completed by a third-party auditor at initial certification and at least every three years after.

Example Minimum Verification Schedule



Water Savings Calculation Process



- Participant water use data shared during initial onboarding and annual reporting to partner certification program.
- Certification program may engage third-party to assist with calculating water savings.

- Certification program develops baseline water use for each participant, taking into account investments in water conservation practices and variability in precipitation.

- Certification program measures or calculates gross or net water use from annual provided data.

- Certification program calculates estimated water savings, the difference in current year water use from the baseline, for each participant.
- After aggregation, water savings are reported to NCGSA

Data

Level reported to partner certification program

Anonymized

Identity Preserved

Individual: Field, Business

Level reported to NCGSA

American Viticulture Area (AVA)

Hydrologic/ Other GSP Relevant Spatial Criteria

Regional

Aggregated

Subbasin

Incentives

- Forthcoming in a separate document, preliminary concepts:
 - NCGSA may offer incentives to encourage voluntary participation in the Water Conservation Certification Program (WCCP).
 - Incentives can be offered to partner programs for meeting standards, participants for actively implementing practices, or a combination of both.
 - Other grant funding opportunities.

Direct
Payments

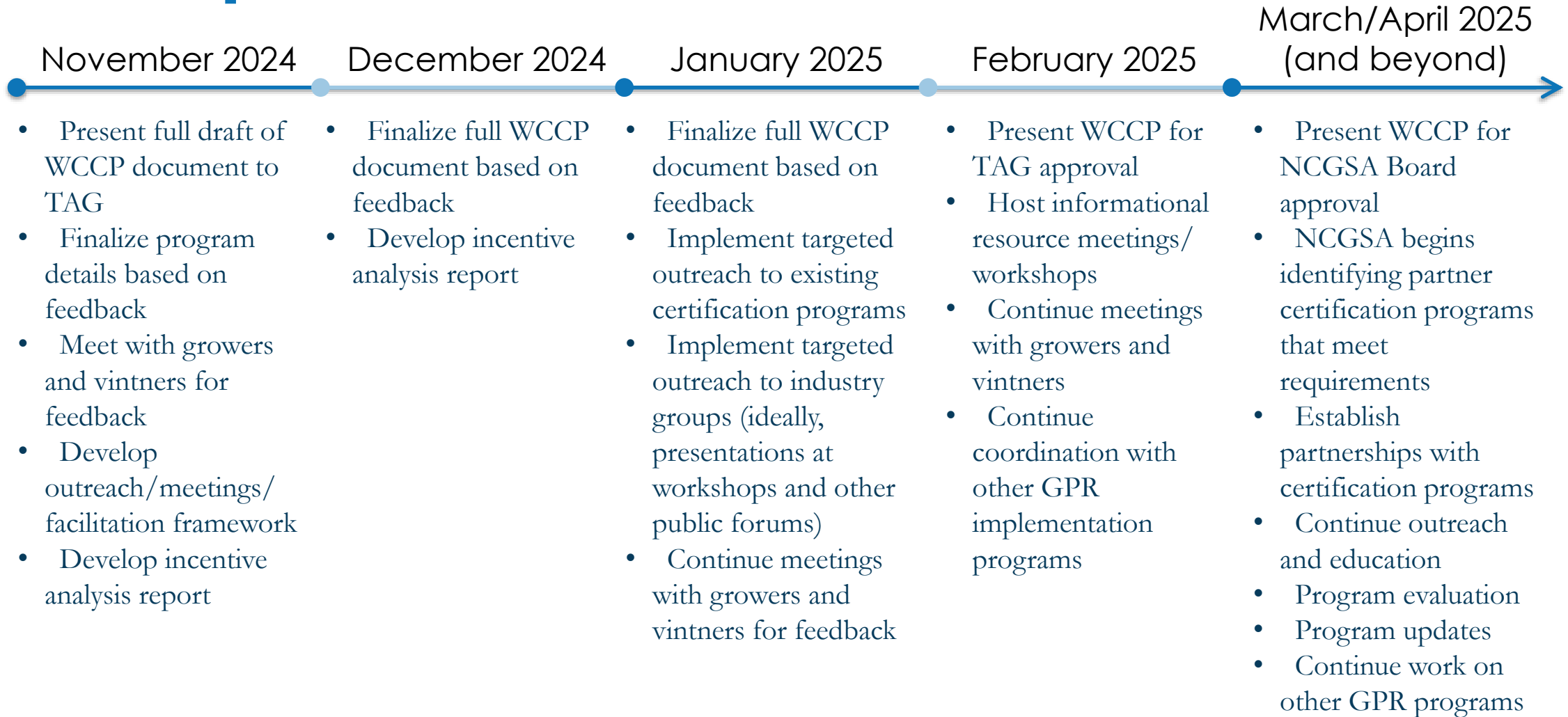
Cost Share


Reducing
Barriers to
Entry

Creating
Value

Other

Implementation Timeline





What feedback and questions are there for the draft framework of the NCGSA Water Conservation Certification Program?

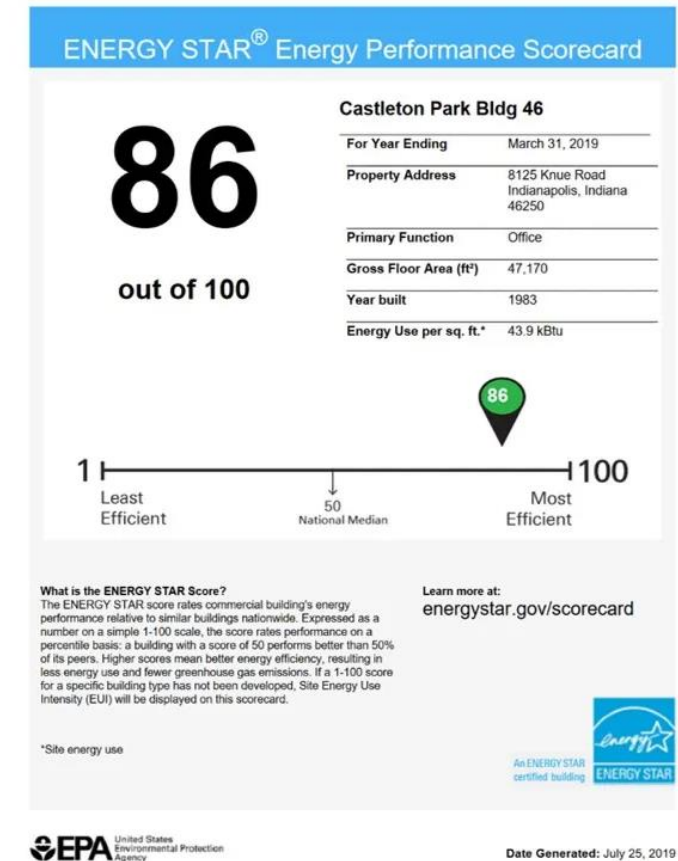


BENCHMARKING PROGRAM DEVELOPMENT

Background

- Benchmarking allows growers to compare their performance over time to anonymous peer group
- Enables growers to identify areas of potential for water savings
- Encourages voluntary water conservation

Example: EPA Energy Star Program



Methodology

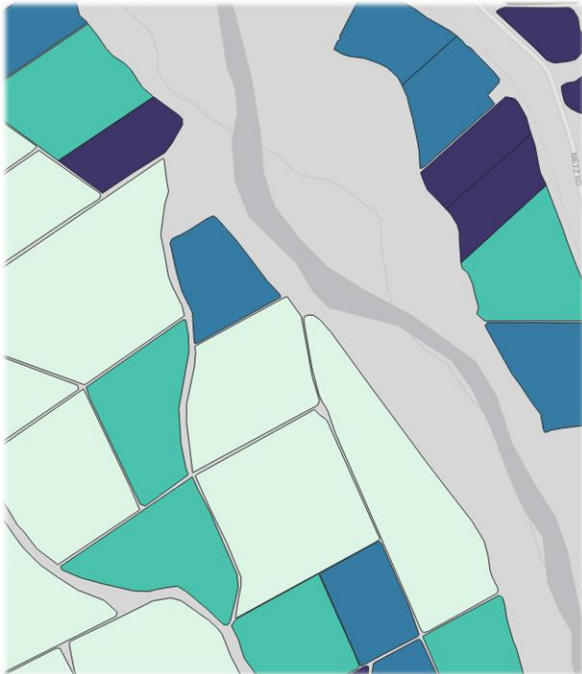
Parcel & APN Data



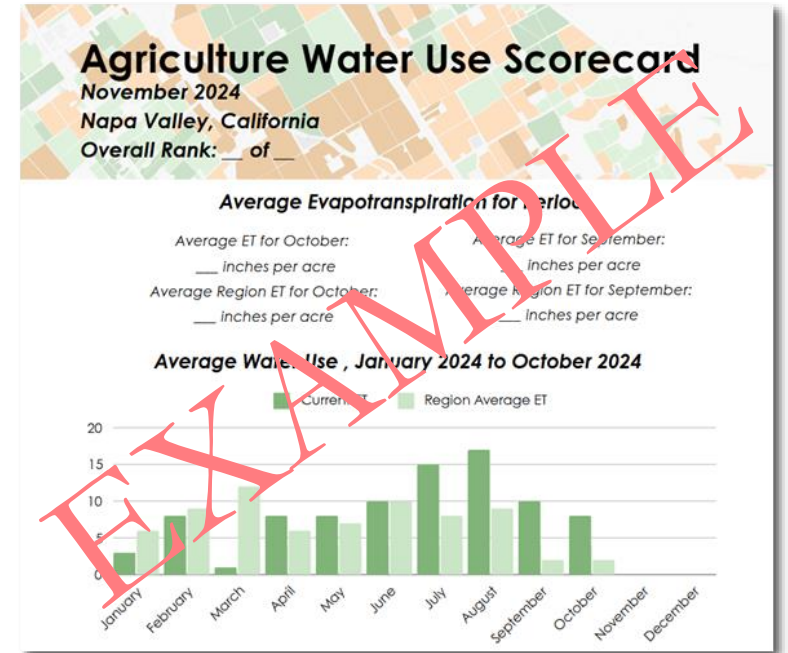
Peer to Peer Comparison



Monthly Report Card



- Field characteristics
- Grape characteristics
- Location





What other factors should be considered in the release of the benchmarking program?



NEXT STEPS

Next Steps

Continue to implement the GPR Workplan

- Outreach
- Certification
- Incentives
- Benchmarking
- Pilot Sites