A program of your local

Resource Conservation District

Napa County RCD, Sonoma RCD, Gold Ridge RCD, and Mendocino County RCD

Purpose

- Assist land managers in accomplishing their natural resource goals and meeting or exceeding environmental regulations

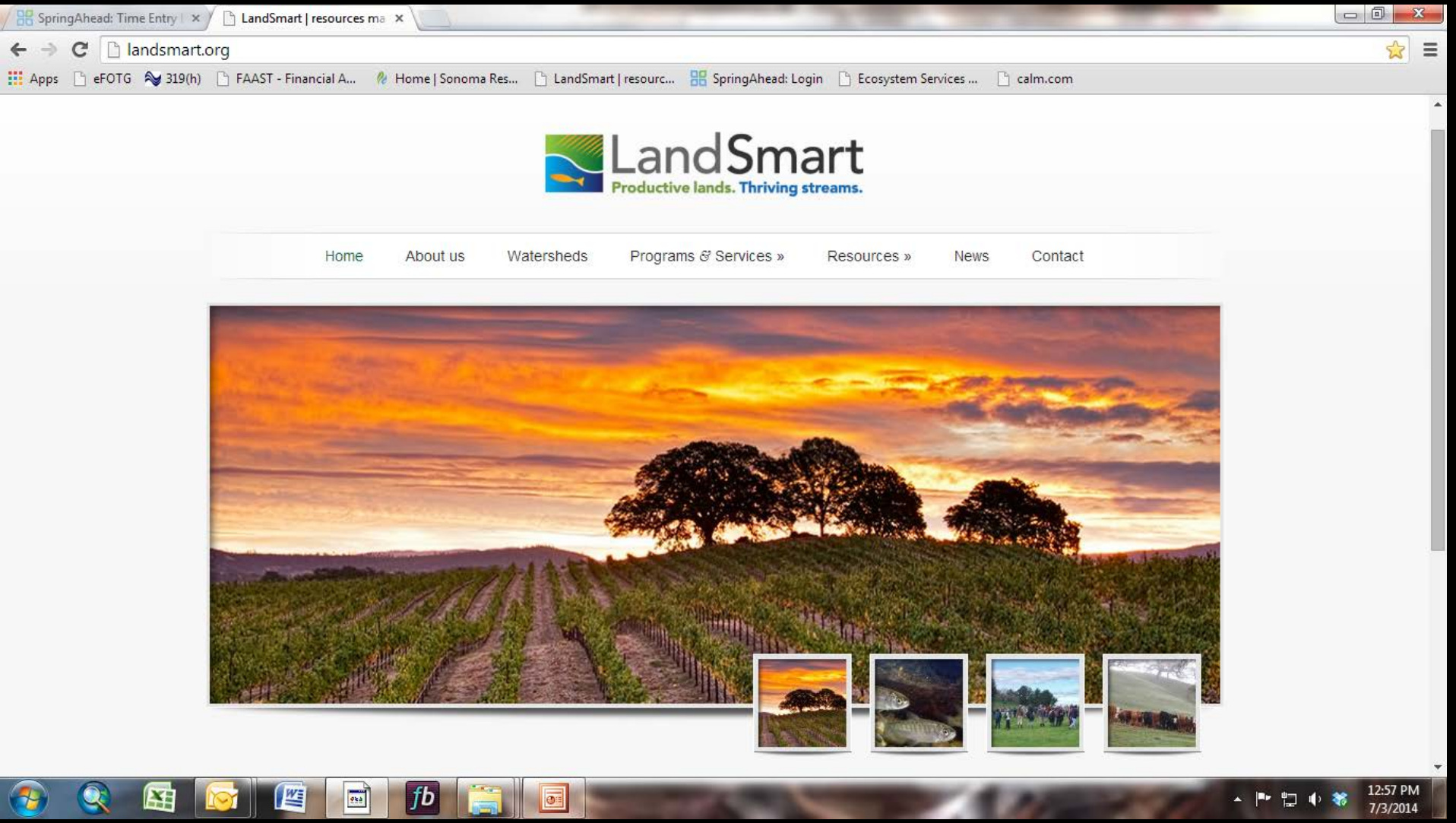
- Provide technical assistance and financial support to plan and implement resource conservation practices

- Deliver opportunities for youth to be actively engaged in stewarding local resources

LandSmart™ Services

- LandSmart™ Planning
  - Farm conservation plans and management practices
- LandSmart™ On-the-ground
  - Project implementation, cost-share opportunities, practical “on-the-ground” trainings
- LandSmart™ for Kids
  - Engaging youth in natural resource management and conservation projects

www.landsmart.org



Information, resources, updates, and program materials available publicly

LandSmart™ Planning

- Results in a plan to satisfy future water quality regulations

  + Optional “Compliance Plus” sections

- Multiple land uses – vineyard, equine, grazing/rangeland
- “Open-source” planning and reference materials
- Flexibility for the user
- Innovation – “Resilience is a process not an end-point”

LandSmart™ Planning

- Dovetails with LandSmart™ On-the-ground
  - Cost-share opportunities for implementation
  - Trainings for operators to ensure that implementation is done right
- NRCS participation

LandSmart™ Planning Process Options

Most RCD Involvement

Least RCD Involvement

Grower contacts RCD/NRCS for individual assistance. RCD/NRCS and grower complete plan together. RCD/NRCS conducts site visits for assessment (e.g., roads and waterways). RCD/NRCS assists grower to select BMPs and finalize plan. Optional “certification.”

Grower attends series of workshops (2 classroom + 1 field training). Grower works through template and seeks assistance from RCD/NRCS as needed (e.g., maps, road / waterway assessment). Grower finalizes plan. Optional “certification.”

Grower downloads template and reference guide and starts the plan independently – seeks help from RCD/NRCS when desirable. Optional “certification.”

Grower downloads template and reference guide and completes the plan independent of RCD/NRCS. Optional “certification.”

LandSmart™ Vineyard Planning Update

- V1 Plan Template and Resource Binder Complete
- Soft-launch in Sonoma Valley (Summer 2014)
- Certification process drafted
  - mostly internal to 4 RCDs (option for others as needed)
  - hope to finalize by November 2014
- MOU with NRCS needed

- Outreach to industry groups needed
- Napa workshop launch in November

LandSmart™ Vineyard Plan Contents

- Property Description
- Vineyard Facility Map Summary
- Managing Agrichemicals
- Managing Erosion in Vineyard Blocks and Avenues
- Managing Natural Waterways, Ditches and Spillways
- Roads and Crossings
- Photo Monitoring
- Tracking Implementation of your Farm Plan

LandSmart
Productive lands. Thriving streams.

SONOMA RESOURCE CONSERVATION DISTRICT

NAPA COUNTY RCD Resource Conservation District

Using the LandSmart™ Template

LANDSMART™ FOR VINEYARDS
FARM PLAN

Prepared for: _____

Prepared by: _____

Date: _____

Version 1.0
July 2014

SONOMA
RESOURCE CONSERVATION DISTRICT

NAPA COUNTY RCD
Resource Conservation District

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Maps

Such as……

- Property / Parcel boundaries
- Topography
- Vineyard blocks
- Buildings / Facilities
- Soils & Erosion Ratings
- Drainage System
- Erosional Features
- Streams & Waterways
- Reservoirs / Ponds / Lakes
- Roads & Crossings
- Photo monitoring locations

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Prompts & Suggestions

MANAGING EROSION AND WATER QUALITY IN NATURAL WATERWAYS

W5.Riparian Areas have vegetative cover that reduces the likelihood of erosion. (Native vegetation is preferred. Some vegetation such as vinca, blackberry, Arundo can conceal erosion issues.)

- ☐ All banks
- ☐ Some banks (Consider practices # 1 through 4, listed in Table W1 below)
- ☐ No banks (Consider practices # 1 through 4, listed in Table W1 below)
- ☐ Not Applicable

Describe as needed:

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Conservation Practices

Table W1: Conservation Practices to Reduce Erosion in Natural Waterways

The following table provides an assortment of management practices that are intended to protect water quality. Implementation of all practices is not necessary or required. Selection of practices must be done on a site-specific basis. An assortment of practices to protect water quality and to suit your circumstance should be selected. NRCS Practice Titles are provided for your reference and you may contact your local NRCS or RCD field office for technical and/or possible financial assistance. *See Chapter 6 of the Reference Guide for information on these conservation practices.*

	NRCS Practice Title	*Implementation Date*	*Location*
1. Consult a Professional			
2. Remove invasive riparian plants and establish native riparian cover (permit may be needed)	Restoration & Management of Declining Habitats (643) Weed Control (315) Brush Management (314)		
3. Establish native riparian trees and shrubs	Riparian Forest Buffer (391)		
4. Establish native riparian grasses and forbs	Riparian Herbaceous Cover (390)		
5. Promote natural restoration (let the bank erode and			

Road Assessment Forms & Suggestions

DATA FORM R1. ROAD STREAM CROSSING DATA FORM

Complete this data form for each place that roads cross a waterway. The instructions and definitions following the form may be helpful. Make a copy of the form, including treatment options if applicable, for each crossing.

ROAD STREAM CROSSING DATA FORM (2014)						
GENERAL	Site #:	Mapped (Y/N):	Road ID/Name:	Landowner:	Date:	Site located up-stream of pond/reservoir (Y,N):

CROSSING TYPE	Bridge (go to Bridge, Arch, Box info section)	Bottomless Arch (go to Bridge, Arch, Box info section)	Box culvert (go to Bridge, Arch, Box info section)		
	Culvert (go to Culvert info section)	Oval culvert (go to Culvert info section)			
	Ford (go to Ford or Armored Fill info section)	Armored Fill (go to Ford or Armored Fill info section)			
	Fill (if so then go to Fill or Pulled info section)	Pulled crossing (if so then go to Fill or Pulled info section)			
	Photos taken (Y, N):				
BRIDGE, ARCH, BOX INFO	Bridge/Arch/Box/ height (ft):	Bridge/Arch/Box/ width (ft):	Wing walls (90^0&15^0, 30^0-75^0, 0 extension up ch.)		
CULVERT INFO	Circular culvert diameter (in):	Oval culvert height (in):	Oval culvert width (in):	Culvert type (P, S, A, C):	Trash rack type (none, SP, MP, Screen): (If none or Screen see treatment options 11, 12 in

Photo Monitoring

PHOTO MONITORING

Purpose: To document your visual monitoring and site inspections and record your monitoring notes and any actions needed and taken. Monitoring sites should be selected to 1) demonstrate winter readiness, 2) demonstrate annual maintenance and practice implementation, 3) demonstrate condition of outfall (discharge) points and associated receiving waters, and 5) track other areas of interest that you want to watch (e.g., areas of erosion, areas of invasive vegetation, etc.) Monitoring is conducted to document that sediment control practices outlined in the LandSmart™ Plan are implemented, that the practices are effective, and that they are properly maintained. Monitoring locations should be mapped and numbered. To the extent feasible, photos should be kept with the Farm Plan. In any case, photos should be readily available for reference.

Label on Map	**Purpose** Winter readiness; annual maintenance; practice implementation; outfall and receiving water point; other	**Date** (m/d/y)	**Photo Taken?** Y or N	**Condition** (performing properly, needs maintenance, needs consultation)	**Actions taken**

Tracking Implementation

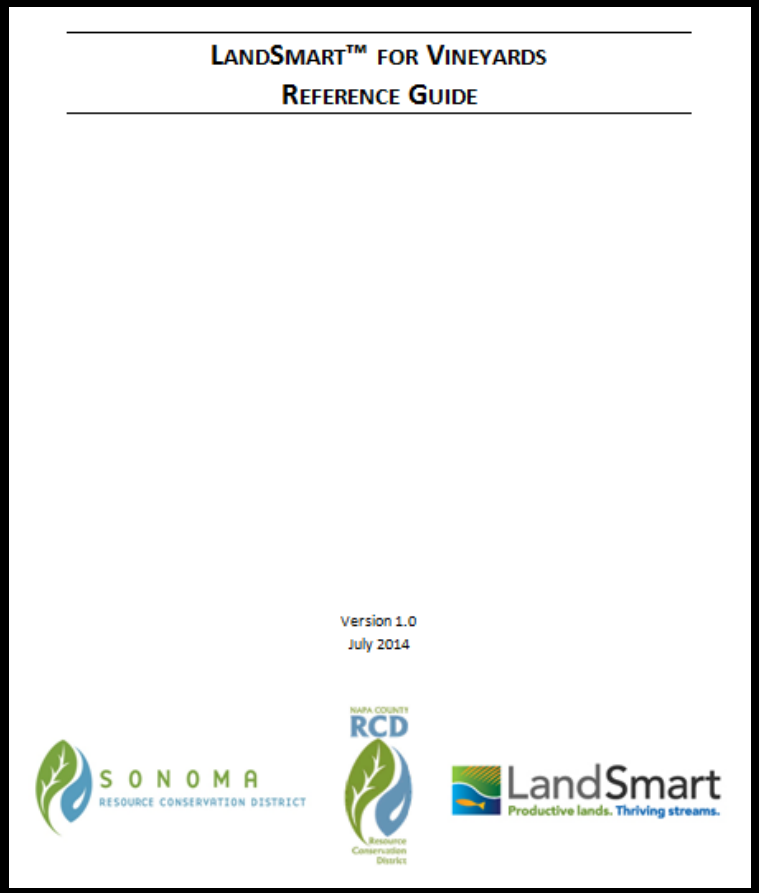
TRACKING IMPLEMENTATION OF YOUR FARM PLAN

Background: By tracking changes in land use and implementation of conservation or beneficial management practices (BMPs) on your agricultural operation, any water quality changes that may occur due to implementing practices are documented. Monitoring water quality changes can attribute those changes to implementation of practices or to other confounding influences such as regional geology or a source upslope or upstream of the operation.

Use this table to track implementation of the actions that you identified in the previous sections. You can also use this table to list additional conservation practices not identified in previous chapters that are part of your management goals for the property. You may make additional copies of this page as needed to adequately document all practices that are planned or have already been implemented.

Practice	**Applicable NRCS Practice Standard**	**Location** (show on map if possible)	**Date** (Implemented and/or Maintained)	**Details/Notes** (include reference to photos)

LandSmart™ for Vineyards Reference Guide



- Program basics
- Mapping aids & references
- Natural resources information
- BMP Fact Sheets
  - ✓ Agrichemical handling
  - ✓ Integrated Pest Mgmt.
  - ✓ Treating common pests
  - ✓ Nutrient management / composting
  - ✓ Erosion & runoff control
  - ✓ Streamside practices
  - ✓ Road treatment options & typical drawings
- Monitoring Protocols