

# Grant Progress Report Template

Progress Report # 21

Reporting Period: 9-1-2011 to 9-30-2011

Submittal Date 10-20-2011

Grant Agreement No: 09-665-555-0

Project Name: BMPs to Help Eliminate Diazinon and Chlorpyrifos in Runoff from Farms in Lower San Joaquin River

Contractor Name: Sustainable Cotton Project

I certify under penalty of law that this document and all attachment were prepared by me or under my direction in accordance with the terms and conditions of each Grant Agreement Exhibit. Based on my inquiry of the persons or persons who manage the project, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. All information submitted in this document and all attachments conform to and are in accordance with the state and federal laws and I so here certify with my signature. I am aware that there are significant penalties for submitting false or misleading information.

Project Director: Marcia Gibbs  
Printed Name

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Signature

## List of Items for Review

Exhibit B. A	Invoice
Exhibit B.E.1	Progress report
Exhibit A. Task 5.1	BMPs needed for project
Exhibit A. Task 6.1	SCP blog postings
Exhibit A. Task 6.3	Cotton field day
Exhibit A. Task 6.5	SCP press
Exhibit A. Task 6.6	Project field notes for almonds, alfalfa and cotton
Exhibit A. Task 7.2	Photos of BMP implementation

## Progress Report Narrative

### Introduction

This period of activity resulted in deliverables from Tasks 5, 6, and 7.

The month of September signifies a winding down of the growing activities and preparations for the completion of harvest activities. The majority of the almond orchards enrolled in the project have completed their harvest this month. A crackout sample was obtained for each orchard and Alex Newton (UC almond field scout) is sorting through each of the samples to determine what, if any insect damage has occurred. This information will be passed along to the growers at the fall almond meeting scheduled for November 29.

With the early fall rain; the majority of alfalfa growers have made their last cutting. Some mold has developed and with cooler conditions, the alfalfa will not develop into a marketable crop. Hay price are high, so the growers are pleased with the season, even if it has been shorter than usual.

Cotton has begun defoliation and acala growers are expected to start harvesting in mid October. The pima cotton will be allowed to continue to grow (it has a longer growing cycle) since we have been having warm days. Defoliation of the Pima is not expected until mid October.

Luis Gallegos SCP field scout continued his scouting during the month of September. He expects the scouting to be completed for the season by the middle of October. Field scouting reports for the month and the weekly blogs for September are all included with this report.

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A very successful cotton field day was held on September 7. Dan Munk, UCCE cotton specialist with Fresno County met with growers at enrolled grower Dan McCurdy's farm to share with them information about defoliation options and defoliation timing. About 30 growers and PCAs attended the meeting. A copy of the meeting notice, sign in sheets and evaluation are included with this report.

Participants are registering for the 2011 SCP Cotton Farm Tour. The GAP has once again offered to sponsor part of the tour expenses and support our efforts at bringing Cleaner Cotton to the marketplace. The date of the tour this year is November 8.

### Summary of Work Completed To Date

Work Item	Items for Review #	Due Date	% Of Work Complete	Date Submitted
	<b>EXHIBIT A – SCOPE OF WORK</b>			
1.0	<b>Project Assessment and Evaluation Plan</b>			
1.1	Prepare Project Assessment and Evaluation Plan	Day 30	100	5-20-10
1.2	Coordinate with Westside San Joaquin River Watershed Coalition to utilize their SWRCB-accepted Monitoring Plan	Day 90	50	4-20-10
1.3	Coordinate with Westside San Joaquin River Watershed Coalition to utilize their SWRCB-accepted QAPP	Day 90	50	5-20-10
1.4	Nonpoint Source Pollution Reduction Project Follow-up Survey Form	Annually by 12/15	33	1-20-11
2.0	<b>Recruit growers</b>			
2.1	Project will work with UC Extension and industry to invite individual participants into the project	Ongoing	66	4-20-11
2.2	Hold annual recruitment fair, announcements, agenda, attendance lists	March 2010, March 2011, March 2012	66	3-20-11
2.3	Westside San Joaquin River Watershed Coalition Yearly Meeting Information	Annually	20	3-20-11
3.0	<b>Complete grower enrollment paperwork</b>			
3.1	Grower assessment/workbook	September 2010	33	3-20-11
3.2	Grower enrollment paperwork	June 2010, June 2011, June 2012	66	5-20-10
3.3	Grower workbook for each enrolled grower	December 2010  Annually as new growers are added	20	

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<b>Work Item</b>	<b>Items for Review #</b>	<b>Due Date</b>	<b>% Of Work Complete</b>	<b>Date Submitted</b>
4.0	<b>BMP Implementation Plan for Enrolled Farms</b>			
4.1	Create a map of each property	June 2010, June 2011, June 2012	66	7-20-11
4.2	Create an implementation schedule and potential BMP matrix	June 2010, June 2011, June 2012	66	7-20-11
4.3	Create implementation and monitoring plan for each property	June 2010, June 2011, June 2012	66	7-20-11
5.0	<b>Implementation of BMPs</b>			
5.1	BMP installation – purchase insects, etc. for field use	Ongoing	51	10-20-11
5.2	Implement selected BMPs	Ongoing	66	7-20-11
6.0	<b>Outreach and Technology Transfer Activities</b>			
6.1	Create BMP fact sheets related to OP use and runoff. Develop SCP blog sharing production information with growers	July 2010	51	10-20-11
6.2	Create brochure on prior success stories of IPM in region; bring to each field day.	July 2010	100	8-20-10
6.3	Conduct at least 6 field days each year	Ongoing, during years one, two and three	55	10-20-11
6.4	Publish project newsletters	June, December 2010, June, December 2011, June, December 2012	50	7-20-11
6.5	Invite reporters from agricultural and trade publications to field days to ensure wide visibility of project efforts.	Ongoing	59	10-20-11
6.6	Synthesize and publish monitoring data from each farm and distribute them to all enrolled growers in a publication called "Field Notes"	During growing season 2010 2011, 2012	54	10-20-11
6.7	Update <a href="http://www.sustainablecotton.org">www.sustainablecotton.org</a> with pertinent project information and project outreach materials	Ongoing	28	4-20-11
7.0	<b>Evaluation</b>			
7.1	Complete annual grower survey	February 2011,	50	3-20-11

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Work Item	Items for Review #	Due Date	% Of Work Complete	Date Submitted
		February 2012		
7.2	Undertake photo monitoring of physical BMPs	Ongoing	44	10-20-11
7.3	Measure BMP installation success by comparing planned BMPs to actual installation	Ongoing		
7.5	Use PUR and or grower survey data to confirm use reductions	Year three, compile 2010 & 2011 for final report		
	<b>EXHIBIT B – INVOICING, BUDGET DETAIL, AND REPORTING PROVISIONS</b>			
A.	<b>INVOICING</b>	Monthly	60	10-20-11
E.	<b>REPORTS</b>			
1.	Progress Reports by the twentieth (20 <sup>th</sup> ) of the month	Monthly	60	10-20-11
2.	Natural Resource Projects Inventory (NRPI) Project Survey Form	Before final invoice		
3.	Draft Project Report	October 2013		
4.	Final Project Report	November 2013		
5.	Final Project Summary	Before final invoice		
	<b>EXHIBIT D – GRANT PROGRAM TERMS &amp; CONDITIONS</b>			
1.	Lobbying Certification	With final report		
2.	MBE/WBE Documentation ( <a href="http://www.epa.gov/osdbu/pdfs/5700_52a.pdf">http://www.epa.gov/osdbu/pdfs/5700_52a.pdf</a> )	Quarterly		

### EXHIBIT A – SCOPE OF WORK

#### 1. Project Assessment and Evaluation Plan

##### 1.1 Prepare Project Assessment and Evaluation Plan

(Cumulative 100% complete)

##### 1.2 Coordinate with Westside San Joaquin River Watershed Coalition to utilize their SWRCB-accepted Monitoring Plan

(Cumulative 50% complete)

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- 1.3 Coordinate with Westside San Joaquin River Watershed Coalition to utilize their SWRCB-accepted QAPP (Cumulative 50% complete)
- 1.4 Non Point Source Pollution Reduction Project Follow-up survey (Cumulative 33% complete)
2. Perform outreach and recruitment activities:
  - 2.1 Recruit growers during the first three (3) months of each project year and contact previous farmer-partners and invite them into the program. These farmers will serve as mentor-farmers in the program. (Cumulative 66% complete)
  - 2.2 Hold annual recruitment fairs to showcase the project to area farmers and invite participation. Announce the event via local press releases, mailers, and news articles. Provide project-related incentives to attend the meeting. (Cumulative 66% complete)
  - 2.3 Participate in the Westside San Joaquin River Watershed Coalition yearly meeting with grower groups and invite these growers to become part of our project. (Cumulative 20% complete)
3. Complete enrollment paperwork, agreements, and whole farm assessments
  - 3.1 Create workbooks and distribute to the local farming community to provide whole-farm system education and resources. Workbooks will be modified after the existing cotton Whole Farm Planning workbook, with modifications for alfalfa and almond growers. (Cumulative 33% complete)
  - 3.2 Complete grower enrollment paperwork to identifying information critical to program effectiveness.  
*Enrollment for the 2011 season is complete.* (Cumulative 66% complete)
  - 3.3 Assist each grower complete a workbook during the first six (6) months. (Cumulative 20% complete)
4. BMP Implementation Plan for each enrolled property
  - 4.1 Create a map for each farm site. (Cumulative 66% complete)
  - 4.2 Assist with the proper planning and execution of BMPs tailored to the resource issues on each farm site. Create an implementation schedule and potential BMP matrix.

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(Cumulative 66% complete)

- 4.3 Create implementation and monitoring plan for each crop.

(Cumulative 66% complete)

5. BMP Implementation: Implementation Management Practices identified in the BMP Implementation Plan in order to achieve an eleven percent (11%) load reduction of diazinon and chlorpyrifos from total acreage enrolled in project. (Cumulative % complete)

- 5.1 Purchase materials, beneficial insects, or seeds necessary to undertake BMP implementation.

*SCP continued the use of lacewing larvae in the enrolled cotton fields this month. There were a few fields that continued to have pest issues late in the season. Field Scout Luis Gallegos has been carefully watching these fields and staying in contact with the growers to keep any late season insects from damaging the cotton fiber. Lacewings are general predators that can help control populations of insect pests including aphids and whiteflies that can cause serious fiber damage.*

(Cumulative 51 % complete)

- 5.2 Implement selected BMPs on each of the enrolled farms according to the crop or crops grown to reduce pollutant loading.

(Cumulative 66% complete)

### 6. Outreach and Technology Transfer activities

- 6.1 Create BMP fact sheets related to chlorpyrifos and diazinon for distribution at every field day within the first six months of the project. Develop project blog to convey important information about pesticide use to farmers and the general public.

*Five SJSF project blogs were published this month and copies of those submissions are included with this report. The blogs this month focused on all three crops since the seasons for all the crops are starting to wind down and growers are concerned about maximizing profits. Cotton is particularly critical at this time of year since the bolls are setting and water and fertilizer must be applied in the correct amounts with the correct timing. Almond harvest will be completed this month and the blog for almonds stressed the importance of early harvest to prevent insect damage. The blogs can be viewed online at <http://centralvalleyfarmscout.blogspot.com>.*

(Cumulative 51% complete)

- 6.2 Design brochure on prior success stories of Integrated Pest Management implementation in the region have available at each field day. Create brochure within first 6 months of project. (Cumulative 100% complete)

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- 6.3 Conduct at least six field days per year highlighting project successes.

*On September 7, SCP held a very successful cotton field day at the enrolled field belonging to Dan McCurdy. About 30 growers and PCAs participated in the two-hour meeting that discussed the current state of the cotton crop, defoliation options and defoliation timing. Field Scout Luis Gallegos gave an update on the enrolled cotton fields and what kind of pest pressure he was seeing in the fields. There were plenty of questions and folks stayed around after the meeting to question Dan Munk and discuss the crop with their neighbors. The evaluations showed that growers appreciated hearing from Dan and his year's of experience. A copy of the meeting notice, sign in sheets and evaluations are included with this report.*

(Cumulative 55% complete)

- 6.4 Publish two project newsletters per year.

(Cumulative 50% complete)

- 6.5 Invite reporters from agriculture and trade publications to field days to ensure wide visibility of efforts to reduce pollutant loads in the San Joaquin River. Secure at least one such publication per year.

*SCP has several press listings regarding both the September 7 field day and the upcoming cotton tour. SCP staff member Gilbert Mohtes-Chan conducted a short interview with Dan Munk after the field day and then posted it on YouTube for viewing. See the video clip at <http://www.youtube.com/watch?v=mU-8qvLiU4k>. Copies of the press articles are included with this report.*

(Cumulative 59% complete)

- 6.6 Collect monitoring data from each farm and publish a monthly "field notes" to enrolled growers, enabling growers to see developments and actions taken on other farms as well as on-farm resource issues.

*A final month of Field Notes went out to all enrolled growers during the month of September. A sample copy of each crop's Field Notes is included with this report. SCP also copies the blog information and distributes that as part of the weekly Field Notes since we know that many of the growers will not be accessing the blog information online.*

(Cumulative 54% complete)

- 6.7 Update the Sustainable Cotton Project website with information and publications relevant to the project.

(Cumulative 25% complete)

### 7. Evaluation and Follow-Up

- 7.1 Complete annual grower surveys with each enrolled grower to understand what prompted them to enroll or to remain in the project, what they learned, what did and did not work, and how they will continue to apply the BMPs after the life of the project.

(Cumulative 50% complete)

- 7.2 Conduct photo monitoring of each physical BMP to exhibit before and after results.

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*Photos of implemented BMPs for the 2011 season are included with this report. The photos this month focus on the almonds with the importance of an early harvest and the nut crackout to help determine what insect pests are causing nut damage. A BMP promoted by the project includes an early harvest whenever possible. By harvesting early, growers can reduce the incidence of damage caused by navel orange worm and help reduce the incidence of ant damage. The photos show almond harvest underway and also a nut sample for inspection.*

(Cumulative 44% complete)

- 7.3 Measure implementation success by comparing planned vs. completed BMPs for each site.

(Cumulative % complete)

- 7.4 Analyze water quality data and reports from the Westside San Joaquin River Watershed Coalition to determine success of reaching project goal to reduce chlorpyrifos and diazinon by 11%.

(Cumulative % complete)

- 7.5 Confirm chlorpyrifos and diazinon reduction/adherence to the 50% or less of the county average (by crop) for all project participants during the first implementation year. Review PUR data and/or grower survey information during the second year. (Cumulative % complete)

### **Exhibit B - INVOICING, BUDGET DETAIL AND REPORTING PROVISIONS**

- A. Invoice (Cumulative 60% complete)

- E. Reports

1. Progress Reports by the twentieth (20<sup>th</sup>) of the month (Cumulative 60% complete)

2. Natural Resource Projects Inventory (NRPI) Project Survey Form  
(Cumulative % complete)

3. Draft Project Report (Cumulative % complete)

4. Final Project Report (Cumulative % complete)

5. Final Project Summary (Cumulative % complete)

### **Exhibit D - GRANT PROGRAM TERMS & CONDITIONS** (Cumulative % complete)

1. Lobbying Certification  
2. MBE/WBE Documentation ([http://www.epa.gov/osdbu/pdfs/5700\\_52a.pdf](http://www.epa.gov/osdbu/pdfs/5700_52a.pdf))