

ECOLOGICAL STUDIES OF WILLOW (*SALIX CAROLINIANA*):
MONTHLY STATUS REPORT #16

Pedro Quintana-Ascencio
John E. Fauth
Luz M. Castro-Morales



Willow seedlings and cuttings awaiting transplant into the fire experiment.

Department of Biology, University of Central Florida,
4000 Central Florida Boulevard, Orlando, Florida 32816

15 June 2010

Ecological Studies of Willow (*Salix caroliniana*):
Monthly Status Report #16

Covering the time period from May 1-31, 2010

This status report summarizes progress made on the Ecological Studies of Willow project through May 31, 2010, with reference to the tasks and timeline outlined in the Scope of Work and presented in Table 1 below.

Table 1. Timeline of tasks to be accomplished in Year 2. Tasks initiated and underway in this reporting month are highlighted in blue, completed tasks in red.

YEAR 2

Quarter	Months	Tasks accomplished
1st	Oct – Dec, 2009	Initiate Task 2.3 (<i>Fire response</i>) Continue Task 2.4 (<i>Life history</i>) Continue Task 2.5 (<i>Spatial analysis of willow distribution</i>)
2nd	Jan – Mar, 2010	Continue Task 2.3 (<i>Fire response</i>) Continue Task 2.4 (<i>Life history</i>) Continue Task 2.5 (<i>Spatial analysis of willow distribution</i>)
3rd	Apr – Jun, 2010	Initiate Task 2.2 (2nd iteration, <i>Willow transplantation</i>) Continue Task 2.3 (<i>Fire response</i>) Continue Task 2.4 (<i>Life history</i>) Continue Task 2.5 (<i>Spatial analysis of willow distribution</i>)
4th	Jul – Sep, 2010	Complete Task 2.2 (2nd iteration, <i>Willow transplantation</i>) Continue Task 2.3 (<i>Fire response</i>) Continue Task 2.4 (<i>Life history</i>) Continue Task 2.5 (<i>Spatial analysis of willow distribution</i>) Complete Task 3.2 (<i>Data analysis and final report, Year 2</i>)

Progress on Task 2.1 – Germination and Early Survival and Growth Experiments

This task was completed in April, 2010. Luz M. Castro-Morales is presenting a poster on this work to the Society of Wetlands Scientists meeting in Salt Lake City, June 27-July 2, 2010.

Progress on Task 2.2 – Willow Transplantation

A. Competition Experiment – We continued to maintain the flooding and competition experiments, and recorded initial plant data on June 4, 2010, when we began raising the water level.

B. Hydrology Experiment – We completed analysis of this experiment and are preparing a manuscript for publication.

Initiate Task 2.3 - Fire response

We continued to maintain 170 pots of willow seedlings and 700 willow cuttings for this experiment (see cover photo).

Progress on Task 2.4 - Life History

We did not gather additional life history information during this period. Expanding this data set will be the focus of our summer work.

Progress on Task 2.5 – Spatial Analysis of Willow Distribution.

We did not modify our existing spatial model during this period.

Summary of Activity

During this reporting period, the UCF team maintained seedlings and cuttings for eventual use in the fire experiment; and maintained the flooding and competition experiments.