Citrus Tree Project Book
Central Florida Fair #2

Name: _________________________ Age: ____

County: _________ Club: _____________________

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Revised May 2006 by Vera Collins Lake County 4-H Secretary. Available online at http://lake.ifas.ufl.edu/4-H/index.htm
This project book is designed for use with the Central Florida Fair Citrus Tree growing project. You should begin keeping records as soon as you obtain your tree. It is not necessary to write records in this book right away; you may keep them in a separate journal or calendar and transfer in at a later date.

Included in this book are questions for you to complete along with your project records. The questions are intended to help you learn more about growing and caring for citrus trees. Answers to the questions can be found in the U.F. Extension publication entitled “Your Florida Dooryard Citrus Guide” or other quality citrus care manuals. The Extension publication can be ordered through IFAS publications. Additional information is provided through a handout entitled “Care of Containerized Trees” and project workshops held in May, September and January of the project year.

http://www.centralfloridafair.com/

The completed project book should include:
1) Citrus project activities.
2) Tree care records.
3) Project pictures.
4) Project story.

Your project book must be completed by the Central Florida Fair citrus tree project pre-judging held prior to the contest and sale on 4-H Day. You will be expected to submit your completed project book for judging when you enter your tree for pre-judging. If you have any questions regarding your project tree or this book, you should ask your 4-H Agent or plan to ask at one of the scheduled workshops.

For update info, project books, dates, maps visit:
http://lake.ifas.ufl.edu/4-H/index.htm
Citrus Tree Nutrition

Good Citrus tree nutrition is essential, but over fertilization can result in problems as well. Answer the following questions about citrus tree nutrition using “Your Florida Dooryard Citrus Guide” published by the University of FL, or another equivalent resource.

1) What are some of the possible effects of over fertilization of young citrus trees? __________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

2) How can you prevent the problem of excess salt accumulation? How can you eliminate the salt build up if it has already occurred? __________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

3) What is the goal of fertilization of young citrus trees from planting through the second full year? From years three through five? __________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

4) Briefly describe an appropriate fertilization program for young, first year, citrus tree.
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

5) What three elements are represented by the numbers on a fertilizer tag? __________
________________________________________________________________________
________________________________________________________________________
6) What is the best fertilizer mix range for a young, non fruit bearing citrus tree? 
___________________________________________________________________________
___________________________________________________________________________

7) What are some alternatives to commercial, store bought fertilizer? 
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

8) How can you do your part in helping to maintain ground water quality through your 
fertilization practices? 
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

9) How many times per year should you fertilize your tree during each of the following years 
of growth and development?

First Year: ___________ Second Year: __________ Third Year: ___________

Fourth Year: ___________ Fifth Year: ___________

10) What is the pH range of most Florida soil? _________________
What is the range in which nutrients are most available to the citrus tree? _________________
How is pH adjusted in the soil?
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

4-H is Awesome
**Pruning**

1) Why would you want or need to prune your citrus tree? ____________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

2) Describe the important considerations and proper procedures for pruning your citrus tree for one of the reasons listed above. _______________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

3) Describe the proper way to prune large limbs from a tree.___________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

**Cold Tolerance and Freeze Protection**

1) Explain the term “quiescence”. At what temperature range does this occur?___________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

2) What is cold tolerance? _____________________________________________________
___________________________________________________________________________
___________________________________________________________________________
3) What are the best conditions for a tree to develop cold tolerance? ______________________
_______________________________________________________________________________

4) What conditions tend to reduce cold tolerance? ________________________________
_______________________________________________________________________________
_______________________________________________________________________________

5) What parts of a citrus tree are most vulnerable to freezing? _______________________
_______________________________________________________________________________

6) Which actually causes the damage to citrus trees, cold or ice? Explain your answer.____
_______________________________________________________________________________
_______________________________________________________________________________

7) At what time/temperature conditions will fruit damage occur? Can this fruit be salvaged?
_______________________________________________________________________________

8) Describe the freeze protection process of soil banking.___________________________
_______________________________________________________________________________
_______________________________________________________________________________

9) Describe the process of using sprinklers for freeze protection. How does this protect the
   tree?_____________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

10) What method(s) of cold protection did you use of this project tree? On other trees planted
    in the ground? ___________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
<table>
<thead>
<tr>
<th>Date</th>
<th>Type of Activity</th>
<th>Purpose</th>
<th>Cost if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>00/00/00</td>
<td>Pruning</td>
<td>remove excess growth</td>
<td>none</td>
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Total Cost: $___________
### Opening Inventory **Items on hand, such as spray bottle**

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<th>Item</th>
<th>Number</th>
<th>Opening Value</th>
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Total Value #1: __________

### Expenses **tree, container, potting media**

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<th>Item</th>
<th>Cost</th>
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Total Value #2: __________

### Closing Inventory **depreciate all remaining supplies (suggested depreciation is 10% per project year).**

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<th>Item</th>
<th>Number</th>
<th>Present value</th>
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1. Opening Inventory $ __________
2. Expenses +$ __________
3. Closing Inventory - $ __________
   Total Project Cost = $ __________
Your Project Pictures