

# **Fruit and Vegetable Production Unit for Plant Science Core Curriculum**

**Writers:**

Marie A. Davis and Jenny L. Milligan  
Agricultural Education  
University of Missouri-Columbia

Senior Coordinator: Erica J. Kassel

Editor: Craig W. Gladney

Graphic Designer: Christopher J. Benedict

Computer Graphic Artist: Jacqueline M. Craig

Instructional Materials Laboratory

University of Missouri-Columbia

**Produced by:**

Instructional Materials Laboratory

University of Missouri-Columbia

1400 Rock Quarry Center

Columbia, Missouri 65211

First Edition: June 1984

Revised: June 2006

**© 2006 Curators of the University of Missouri. All rights reserved.**

The activity that is the subject of this report was supported in whole or in part by funds from the Department of Elementary and Secondary Education, Division of Vocational and Adult Education. However, the opinions expressed therein do not necessarily reflect the position or policies of the Missouri Department of Elementary and Secondary Education or the Division of Vocational and Adult Education, and no official endorsement should be inferred.

## Acknowledgments

*Fruit and Vegetable Production Unit for Plant Science Core Curriculum* is a curriculum designed to provide instruction about the production of fruit and vegetable crops for tenth grade students. Funding for the curriculum development project was provided through a grant from the Missouri Department of Elementary and Secondary Education (MDESE).

Recognition is given to advisory committee members for providing their valuable time and suggestions in developing the outline for this curriculum. The committee consisted of the following members:

Pat Bellrose, Fahr Greenhouse

Ron Dickens, Liberal R-II High School

Jeanne Holmes, Mineral Area College

Deanna Thies, Boonslick Technical Education Center

Jim Thies, Howard County High School

Tracy Vedder, Gasconade County R-I High School

Michele Warmund, College of Agriculture, Food, and Natural Resources, University of Missouri-Columbia

A special thank-you is extended to Terry Heiman, Director of Agricultural Education Division of Career Education, and Nancy Alford, Supervisor of the Southeast & South Central Districts of Agricultural Education for the Department of Elementary and Secondary Education.

Special recognition is extended to Michael A. Gold, Associate Director, University of Missouri Center for Agroforestry, for providing technical expertise.

Instructional Materials Laboratory  
University of Missouri-Columbia

## Foreword

Missouri offers a variety of opportunities for fruit and vegetable producers. *Fruit and Vegetable Production Unit for Plant Science Core Curriculum* was developed to provide students with an overview of fundamental production concerns as well as useful information about specific crops.

This student reference contains six lessons: Managing Financial Resources, Developing a Marketing Plan, Site Evaluation, Integrated Pest Management, Vegetable Production, and Fruit Production.

Terry Heiman, Director  
Agricultural Education  
Division of Career Education  
Department of Elementary and  
Secondary Education

# Fruit and Vegetable Production Unit for Plant Science Core Curriculum

## Table of Contents

Acknowledgments .....	iii
Foreword .....	iv
<b>Lesson 1: Managing Financial Resources</b> .....	1
Financial Planning	
Setting Goals	
Steps in Financial Planning	
<b>Lesson 2: Developing a Marketing Plan</b> .....	5
Identify a Customer Base	
Venues to Sell Products	
Advertising	
<b>Lesson 3: Site Evaluation</b> .....	15
Soil	
Topography	
Accessibility	
Climate	
Utilities	
Zoning	
Labor	
<b>Lesson 4: Integrated Pest Management</b> .....	23
Basic Pest Control	
Biological Pest Management	
Chemical Pest Management	
Cultural Pest Management	
Physical and Mechanical Pest Management	
Integrated Pest Management	
<b>Lesson 5: Vegetable Production</b> .....	29
Plant Considerations	
Cool Season Crops	
Warm Season Crops	
Long Season Crops	
Components of Vegetable Charts	
Individual Vegetable Crops	
<b>Lesson 6: Fruit Production</b> .....	33
Plant Considerations	
Small Fruits	
Tree Fruits	
Tree Fruit Production	
Types of Tree Fruits	
Components of Fruit Charts	
Individual Fruit Crops	

