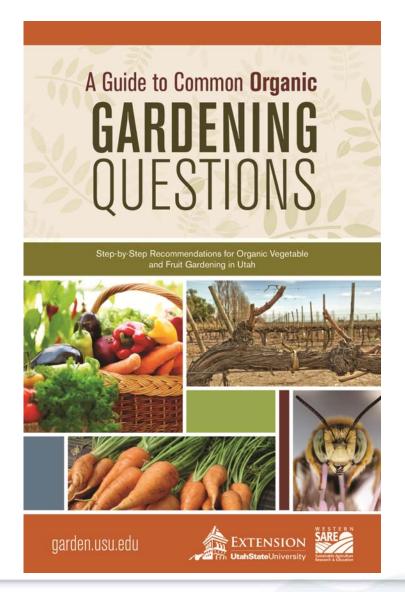
A Guide to Common Gardening Questions



Katie Wagner

USU Extension in Salt Lake County

&

Shawn Olsen

USU Extension in Davis County

Annual Conference 2014



Why Another Gardening Book?

- Organic gardening book written for residential gardeners
- Contributions from writers and specialists
- Summary of information currently found in existing publications
- Convenient tables, figures and illustrations





CONTENTS

Top 10 Questions and Answers for Organic Fruit and Vegetable Gardening in Utah
Introduction
Introduction to USU Extension9
Introduction to Organic Gardening
Nutritional Benefits of Fresh Produce
Kids and Gardening19
Chapter 1: Garden Preparation21
Getting Started and Site Selection
Variety Selection
Garden Layout and Planting
Container and Raised Bed Gardening
Chapter 2: Organic Gardening Techniques
Organic Vegetable Gardening: An Overview
Pruning Fruit Trees and Small Fruit
Extending the Growing Season
Chambar 2: Candan Call
Chapter 3: Garden Soil
Garden Soil and Soil Testing
Organic Matter and Soil Amendment
Backyard Composting
Chapter 4: Organic Garden Care
Garden Soil Fertility
Garden Soil Fertility 139 Garden Irrigation 167
Pesticide Application
Fall Garden Care
Chapter 5: Garden Pest Control
Integrated Pest Management
Beneficial Organisms
Organic Fruit Pest Control 233 Integrated Weed Management 249
Prevention and Management of Common Garden Diseases
Index

Chapters

- Garden Preparation
- Organic Gardening Techniques
- Garden Soil
- Organic Garden Care
- Garden Pest Control



A Guide to Common Organic GARDENING QUESTIONS

Step-by-Step Recommendations for Organic Vegetable and Fruit Gardening in Utah

Acknowledgment: Portions of this guide were originally published in *A Guide to Common Gardening Questions*. The guide has been revised and updated with an emphasis on research-based organic gardening practices.

PUBLICATION TEAM

SENIOR WRITERS

Katie Wagner, USU Extension Horticulture Faculty (Salt Lake County)
Shawn Olsen, USU Extension Agriculture Faculty (Davis County)

CONTRIBUTING WRITERS

Dr. Dan Drost, USU Extension Vegetable Specialist

Dr. Diane Alston, USU Extension Entomologist and IPM Coordinator

Marion Murray, USU Extension IPM Project Leader

Britney Hunter, USU Extension Horticulture Faculty (Davis County)

Dr. Claudia Nischwitz, USU Extension Plant Pathology Specialist

Dr. Ricardo Ramirez, USU Extension Entomology Specialist

Dr. Mark Williams, University of Kentucky Extension Landscape Horticulture and Weed Management Specialist

Dr. Niel Allen, USU Extension Irrigation Specialist

James Barnhill, USU Extension Agriculture Faculty (Weber and Morgan Counties)

Dr. David Frame, USU Extension Poultry Specialist

Mike Pace, USU Extension Agriculture Faculty (Box Elder County)

Tamara Steinitz, USU Clinical Associate Professor, Department of Nutrition, Dietetics and Food Sciences

Dr. Carrie Durward, USU Extension Nutrition Specialist

Dr. Jennifer Reeve, USU Associate Professor of Organic and Sustainable Agriculture Melanie Jewkes, USU Extension Family and Consumer Sciences Faculty (Salt Lake County)

Rick Heflebower, USU Extension Horticulture Faculty (Washington County)

Shelley Ekman, Master Gardener (Davis County)

GRAPHIC DESIGN & LAYOUT

Olivia Yeip, Graphic Designer

Copyright ©2014 USU Extension ISBN New Number Here

Contributing Authors

- 2 Senior
- 10 Specialists
- 5 County Level Faculty
- 1 USU Clinical Associate Professor
- Peer-reviewers and Editors (thank you!)



Other New Additions

- 'Garden Myths' sections tackle home remedies and other misconceptions
- 'Ask an Expert' sections utilized (with permission) Utah Pests Newsletter articles
- Pull-out Sections the birds, the bees and more!
- Washington County information
- Incorporated charts information at hand, do not have to look-up fact sheets



Who Are The Intended Users?

- Organic Gardeners
- Community Gardeners
- Young Families
- Master Gardeners
- Church Gardens
- School Gardens



extension.usu.edu

Needs Analysis

- Salt Lake Tribune Home and Garden Festival:
- Almost two-thirds of respondents in 2012 use pesticides to some extent in their fruit or vegetable garden compared to almost three-fourths in 2013.
- Though most of our respondents used pesticides in their gardens in 2012, a large majority (over 70%) want to reduce pesticide use.
- In 2013, 59% of survey respondents never (28%) or rarely (31%) use pesticides and 68% were moderately (24%) or extremely (44%) interested in reducing or eliminating pesticide use.
- In 2012 and 2013, most respondents were interested in learning how to attract pollinators to the garden.
- Wagner and Kuhns, Journal of NACAA Volume 6 Issue 1 May, 2013.



Needs Analysis

- Recent email survey of 500 people who attended programs at Thanksgiving Point:
 - 1. Healthy eating
 - 2. How to grow vegetables
 - 3. Basic backyard gardening
 - 4. Ethnic cooking
 - 5. Food preservation
 - 6. Cooking fresh fruits and vegetables

Book Production

- Each chapter reviewed by an Extension
 Specialist or two Extension Agents and two editors from Extension Marketing
- Graphic design and layout by Olivia Yeip from Ext. Marketing
- Photos by authors, Utah Pests team, Dennis Hinkamp, and others
- Purchased most photos from iStock

Reading Level

- Want to be easy to understand for beginning gardeners
- Still has many references to factsheets for more detailed information
- Agent faculty writers tended to write more concisely
- Specialist faculty writers tended to write in more detail

Printing

- Mike Whitesides great help through whole process
- Helped get bids from three printers
- Print specs: on 80# stock with 100# cover which was coated with UV coating to be water-resistant for outside use
- Spiral binding so lays flat for easy reference

Content additions from first book

- Added more information on home food preservation
- Added section on gardening with children
- Detailed sections on weeds, organic insect control, organic disease control



- Will be introduced at Organic Workshop at Wheeler Farm to be held March 2014
- Copy provided to all garden centers in Utah based on 2014 Utah Nursery and Landscape Assoc. membership
- Copy to each Extension office
- Copy to Wasatch Community Gardens network

- Preview copies to:
 - Natural Resource Conservation Service Utah offices
 - Water districts: Central Utah, Jordan Valley, Weber Basin
 - Red Butte Gardens, Thanksgiving Point
 - Cal-Ranch, IFA
 - USU Bookstore
 - Barnes & Noble



- Available from extension.cart.usu.edu
- Bookmark has table of contents and ext.cart address for master gardeners, others to use when giving gardening talks
- Working on final photo permissions and then plan to offer as e-book on Amazon
- E-book will have feature of clicking on links to factsheets for more detailed info

- Has ISBN book number and bar code for pricing and inventory use by stores
- Goal is to get Extension information out to where people are purchasing gardening supplies and books
- Available on-line from extension.cart.usu.
 Plan to print bookmarks with Table of Contents and ordering info

Example Table

Table 6: Average Last Spring Frost and Suggested Vegetable Planting Dates for Various Locations in Northern Utah.

	Average	Vegetable Group and Average Date of Initial Planting			
City	Last Spring Frost	A	В	C	D
Coalville	June 18	May 1	May 10	June 10	May 15 (P*)
Duchesne	May 23	April 1	April 15	June 1	May 15 (P*)
Farmington	May 5	March 15	March 20	May 5	May 20
Heber	June 11	April 25	May 5	June 5	May 15 (P*)
Laketown	June15	May 1	May 10	June 1	June 1 (P*)
Logan – USU	May 7	April 1	April 10	May 7	May 20
Logan –					
SW Farm	May 23	April 15	April 25	May 23	June 1
Midvale	May 13	March 15	April1	May 13	May 27
Morgan	June 6	March 15	April 1	May 20	June 1
Nephi	May 16	March 15	April 1	May 16	June 1
Ogden	May 3	March 15	March 20	May 3	May 20
Price	May 12	March 15	April 1	May 12	May 27
Provo – BYU	May 1	March 15	March 20	May 1	May 20
Salt Lake Int'l					
Airport	April 26	March 15	March 20	April 26	May 15
Santaquin	May 14	March 15	April 1	May 14	June 1
Tooele	May 7	March 15	March 20	May 7	May 20
Tremonton	May 3	March 15	March 20	May 3	May 20
Vernal	May 27	April 1	April 15	June 1	May 15 (P*)
Woodruff	June 26	May 15	June 1	n/a	n/a

^{*}P = Protected with cover

^{*}For more information on freeze dates in other areas reference http://climate.usu.edu.

Funding

- Western SARE, \$3,000, for graphic design.
 Also plan to buy copies for Extension offices and NRCS offices
- Extension mini-grant, \$7,000, for printing, advertising, and distribution
- USDA Risk Management, \$900, to provide copies for organic workshop



Thank you, Questions?



Extension.cart.usu.edu

