

Greenhouse Vegetable Production: **Outline of Educational Program**

Gary W. Hickman, Consultant

- **Overview**
- **Greenhouse Plant Growing Requirements**
- **Structures:**
 - Design Types
 - Construction Materials
 - General Construction Techniques
- **Greenhouse Location Considerations**
- **Drainage requirements**
- **Greenhouse Covering Materials and Attachment Procedures**
- **Plant Support Systems**
- **Environmental Controls:**
 - Cooling
 - Heating (temperate regions)
 - Ventilation / Circulation
 - Carbon Dioxide
 - Humidity
 - Lighting
- **Specific Crop Information on size, weight, varieties and seed sources:**
 - Tomato
 - Cucumber
 - Pepper
 - Lettuce
 - Melons
 - Snow Pea
 - Strawberry
 - Eggplant
 - Other Crops
- **Cultural Practices and Growing Systems:**
 - Soil / Sand Culture
 - Bag (media/substrate) Culture
 - Hydroponics
 - Organic
- **Transplants:**
 - Growing Structures
 - Environmental Conditions
 - Potting Mix and Containers
- **Planting:**
 - Temperatures
 - Transplanting
 - Potential Transplant Problems
- **Plant Spacing**
- **Training and Pruning**
- **Irrigation and Fertilization:**
 - Nutrient Formulations
 - Acidity / Alkalinity (pH)
 - Leaf Analysis
 - Visual Symptoms
 - Nutrient Deficiency
 - Foliar Application of Fertilizer
- **Potential Crop Problems:**
 - Physiological Problems
 - Insect and Mite Problems
 - Disease Problems
 - Non-Chemical Pest Controls
 - Environmentally-Safe Chemicals
- **Pesticide Application/ Safety**
- **Harvest and Storage**