

# 2020–2021 Vegetable Production Handbook: Chapter 1. Commercial Vegetable Production in Florida<sup>1</sup>

Josh H. Freeman, Peter J. Dittmar, and Gary E. Vallad<sup>2</sup>

Vegetable production remains a tremendous industry for Florida in terms of acreage and value. Including vegetables, melons, potatoes, and strawberries, production occurred on approximately 251,011 acres and generated more than \$1.34 billion in gross sales in 2016, which ranks second among all the states. Growing seasons are well defined by the peninsular geography, allowing Florida to serve as the main vegetable supplier during late fall, winter, and early spring months to the United States. Although more than 40 vegetable crops are commercially planted in the state, Florida ranks in the top three on production value of tomato, bell pepper, snap bean, squash, sweet corn, watermelon, cabbage, cucumber, and strawberry (Table 1.1).

**Table 1.1. Vegetable production acreage and value in Florida.**

Crop	Planted Acres	Value (million US\$)	US Rank
Tomato	30,000	382.2	1
Strawberry	10,800	449.7	2
Bell pepper	13,500	209.7	2
Sweet corn	37,600	160.0	2
Potato	29,300	117.0	11
Snap bean	28,200	105.6	1
Watermelon	22,500	123.3	1
Squash	6,000	30.0	2
Cabbage	8,500	49.4	3
Cucumber	11,000	66.0	1

Source: Vegetables—2015–2016 summary, NASS, USDA.

The objective of this publication is to provide updated information on crop cultivars, pesticide labels, and certain practices for vegetable production in Florida. Suggested practices are guidelines for growers to plan farm activities and are always subject to review using the latest scientific data available.

## Web Links to Additional Information on Vegetable Production Topics

UF/IFAS Extension provides information through the Electronic Data Information Source (EDIS) found at <https://edis.ifas.ufl.edu>. Below is a partial list of EDIS articles pertaining to vegetable production for further information beyond the *Vegetable Production Handbook of Florida*.

### Vegetable Crop Production

**Complete Vegetable Production Handbook:** <https://edis.ifas.ufl.edu/cv292>

**Variety Selection:** <https://edis.ifas.ufl.edu/cv102>

**Seed Quality and Seeding Technology:** <https://edis.ifas.ufl.edu/cv103>

**Transplant Production:** <https://edis.ifas.ufl.edu/cv104>

1. This document is HS710, one of a series of the Horticultural Sciences Department, UF/IFAS Extension. Original publication date June 1995. Revised June 2020. Visit the EDIS website at <http://edis.ifas.ufl.edu> for the currently supported version of this publication.

2. Josh H. Freeman, associate professor, UF/IFAS North Florida Research and Education Center; Peter J. Dittmar, assistant professor, Horticultural Sciences Department; and Gary E. Vallad, associate professor, Plant Pathology Department, UF/IFAS Gulf Coast Research and Education Center; UF/IFAS Extension, Gainesville, FL 32611.

**Introduction to Organic Crop Production:** <https://edis.ifas.ufl.edu/cv118>

**Value Added Agriculture: Is It Right for Me?:** <https://edis.ifas.ufl.edu/fe638>

**Farm to School:** [https://edis.ifas.ufl.edu/topic\\_farm\\_to\\_school](https://edis.ifas.ufl.edu/topic_farm_to_school)

**Row Covers for Growth Enhancement:** <https://edis.ifas.ufl.edu/cv201>

## Fertility and Irrigation

**Commercial Vegetable Fertilization Principles:** <https://edis.ifas.ufl.edu/cv009>

**Soil and Fertilizer Management for Vegetable Production in Florida:** <https://edis.ifas.ufl.edu/cv101>

**Controlled-Release and Slow-Release Fertilizers as Nutrient Management Tools:** <https://edis.ifas.ufl.edu/hs1255>

**Cover Crops:** <https://edis.ifas.ufl.edu/aa217>

**Principles and Practices of Irrigation Management for Vegetables:** <https://edis.ifas.ufl.edu/cv107>

**Drip Irrigation in the BMP Era:** <https://edis.ifas.ufl.edu/hs172>

## Postharvest Quality and Handling Resources

**UF/IFAS Postharvest Quality & Technology:** <https://irrec.ifas.ufl.edu/postharvest/>

**UF/IFAS EDIS (Electronic Data Information Source):** [https://edis.ifas.ufl.edu/topic\\_postharvest](https://edis.ifas.ufl.edu/topic_postharvest)

**Postharvest Technology:** <http://postharvest.ucdavis.edu>

## Marketing and Regulatory Resources

**Florida Dept. of Agriculture & Consumer Services (FDACS):** <https://www.freshfromflorida.com/Divisions-Offices/Marketing-and-Development>

**US Grade Standards for Fruits and Vegetables:** <https://www.ams.usda.gov/standards>

**National Agricultural Statistics Service:** <https://www.nass.usda.gov/fl/>

**National Nutrient Database:** <https://www.ars.usda.gov/>

**National Organic Program:** <https://www.ams.usda.gov/nop/indexIE.htm>

## Food Safety Resources

**Food Safety on the Farm: An Overview of Good Agricultural Practices:** <https://edis.ifas.ufl.edu/fs135>

**The Food Safety Modernization Act and the FDA Facility Registration Program:** <https://edis.ifas.ufl.edu/fs231>

**UF/IFAS Food Safety:** [https://edis.ifas.ufl.edu/topic\\_food\\_safety/](https://edis.ifas.ufl.edu/topic_food_safety/)

**Good Agricultural Practices Training:** <http://www.gaps.cornell.edu/>

**CDC: Division of Foodborne, Waterborne, and Environmental Diseases:** <https://www.cdc.gov/ncezid/dfwed/>

**FDA: US Food and Drug Administration:** <https://www.fda.gov/food/guidanceregulation/fsma/default.htm>

## Fumigation

**Maximizing the Efficacy of Soil Fumigant Applications for Raised-Bed Plasticulture Systems in Florida:** <https://edis.ifas.ufl.edu/hs1169>

## Pesticide Safety

**Pesticide Provisions of the Florida Agricultural Worker Safety Act (FAWSA):** <https://edis.ifas.ufl.edu/pi078>

**Pesticide Safety:** <https://edis.ifas.ufl.edu/cv108>

**Interpreting PPE Statements on Pesticide Labels:** <https://edis.ifas.ufl.edu/pi137>

**Honeybees and Pesticides:** <https://edis.ifas.ufl.edu/in1027>

## Pest Management

**Vegetable IPM. Integrated Disease Management for Vegetable Crops:** <https://edis.ifas.ufl.edu/pp111>

**Florida Nematode Management Guide:** <https://edis.ifas.ufl.edu/features/handbooks/nematode.html>

**Weed Management:** <https://edis.ifas.ufl.edu/cv113>

**Insects in Vegetables:** [https://edis.ifas.ufl.edu/topic\\_vegetable\\_pest\\_insects](https://edis.ifas.ufl.edu/topic_vegetable_pest_insects)