2016
Mid-Atlantic Commercial Vegetable Production Recommendations

Delaware
University of Delaware Cooperative Extension
EB137

Maryland
University of Maryland Extension
EB-236

New Jersey
Rutgers Cooperative Extension
E001

Pennsylvania
Penn State Extension
AGRS-028

Virginia
Virginia Cooperative Extension
456-420

West Virginia
West Virginia University Extension Service
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[abridged digital version]

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Preface
This copy of the *Mid-Atlantic Commercial Vegetable Production Recommendations* for 2016 replaces all previous editions of the Commercial Vegetable Production Recommendations published individually for Delaware, Maryland, New Jersey, Pennsylvania, Virginia, and West Virginia. Information presented in this publication is based on research results from the University of Delaware; the University of Maryland; Rutgers, The State University of New Jersey; The Pennsylvania State University; Virginia Polytechnic Institute and State University; West Virginia University; and the U.S. Department of Agriculture, combined with industry and grower knowledge and experience.

This vegetable production guide is intended for the commercial vegetable grower who has to make numerous managerial decisions. Although the proper choices of variety, pesticides, equipment, irrigation, fertilizer, and cultural practices are the individual vegetable grower’s responsibility, it is intended that these recommendations will facilitate decision-making. Recommended planting dates will vary across the six-state region. Local weather conditions, grower experience, and variety may facilitate successful harvest on crops planted outside the planting dates listed in this guide. This can be evaluated in consultation with the local agents and state specialists. Government agencies and other organizations administering crop insurance programs or other support programs should contact local Extension agents and/or vegetable specialists for guidance.

The publication will be revised annually or as is necessary to include new information that evolves in the rapidly changing vegetable industry. Important updates will be communicated through local Extension agents and vegetable specialists. The Editors welcome constructive criticism and suggestions from growers and industry personnel who may wish to help improve future editions of this publication.

Pesticide User Responsibility
Always follow the label and use pesticides safely. For special Local-Needs Label [24(c)] registrations or Section 18 exemption, do not use the material without a copy of the special label or written instructions from your Extension Agent or another recognized authority.

Remember, the user is always responsible for the proper use of pesticides, residues on crops, storage and disposal, as well as for damage caused by drift.

State and federal pesticide regulations are constantly under revision. Be sure to determine if such changes apply to your situation. Using pesticides inconsistent with label directions is illegal.

Days Between Last Application and Harvest
Minimum days between last application and harvest for insecticides and fungicides are listed in tables at the end of the Insect Control section for each crop. The minimum number of days between last application of herbicide and harvest is listed in Table E-4. To avoid deleterious chemical residues from occurring on harvested crops, heed this warning.

See Table D-6 for Reentry Information listed under Toxicity of Chemicals.

Trade or Brand Names
The trade or brand names given herein are supplied with the understanding that no discrimination is intended and no endorsement is implied. Furthermore, in some instances the same compound may be sold under different trade names, which may vary as to label clearances. For the convenience of our users, both product names and active ingredients are provided and any product name omissions are unintended.
2016 Mid-Atlantic Commercial Vegetable Production Recommendations

Coordinator
C.A. Wyenandt, Ph.D.
Extension Specialist in Vegetable Pathology (Rutgers University)

Discipline Editors
Entomology
Thomas P. Kuhar, Ph.D. (Virginia Tech)

Pesticides
George C. Hamilton, Ph.D. (Rutgers University)

Weed Science
Mark J. VanGessel, Ph.D. (University of Delaware)

Horticulture
Elsa Sanchez, Ph.D. (Penn State University)

Plant Pathology
C.A. Wyenandt, Ph.D. (Rutgers University)
These recommendations were prepared and reviewed by the following individuals from respective institutions with the purpose of providing up to date information for commercial vegetable growers in the mid-atlantic states of Delaware, Maryland, New Jersey, Pennsylvania, Virginia, and West Virginia.

UNIVERSITY OF DELAWARE

Entomology
J. Whalen
Horticulture
G. Johnson
E. Ernest
Plant Pathology
N. Kleczewski
K. Everts
Weed Science
M. VanGessel

RUTGERS UNIVERSITY

Entomology
A.J. Both
Horticulture
W. Kline, M. Melendez
Plant Pathology
T. Orton, D. Ward, M. Infante-Casella, P. Nitzsche, R. VanVranken
Pesticides
G. Hamilton
Weed Science
B. Majek
Soil & Nutrient Management
J. Heckman
Wildlife Damage
B. Maslo

VIRGINIA TECH

Entomology
T. Kuhar
H. Doughty
Food Microbiology
L. Strawn
Horticulture
R. Arancibia, R.A. Straw, J. Samtani
Plant Pathology
S. Rideout
D. Langston
Weed Science
C. Cahoon
Nutrient Management
M. Reiter
Wildlife
J. Parkhurst

UNIVERSITY OF MARYLAND

Entomology
C. Hooks
G. Dively
G. Brust*
Horticulture
R. Rouse
Pesticides
A. Brown
Plant Pathology
K. Everts*

PENN STATE UNIVERSITY

Entomology
S. Fleischer, K. Watrous
Food Science
L. LaBorde
Horticulture
E. Sanchez, T. Elkner, W. Lamont, K. Demchak
Pesticide Safety
K. Hoffman-Richards
Plant Pathology
B. Gugino

WEST VIRGINIA UNIVERSITY

Horticulture
L. Jett
Plant Pathology
M.M. Rahman
Weed Science
R. Chandran

* Prepared 2016 revisions.
State Extension Information

DELAWARE
University of Delaware
UD Ag Extension: http://extension.udel.edu/ag/
Fact Sheets: http://extension.udel.edu/factsheets/
Weekly Crop Update Newsletter: http://extension.udel.edu/weeklycropupdate/
IPM Crop Pest Hotline Report: 1-800-345-7544

Statewide
Gordon Johnson, Fruit and Vegetable Crops Specialist – 302/856-7303, gcjohn@udel.edu
Emmalea Ernest, Associate Scientist, Vegetables- 302/856-7303, emmalea@udel.edu
Mark VanGessel, Weed Specialist – 302/856-7303, mjv@udel.edu
Kathryne Everts, Vegetable Plant Pathology Specialist – 410/742-8780, everts@udel.edu
Nathan Kleczewski, Field Crops Plant Pathology Specialist 302/300-6962, nkleczew@udel.edu
Joanne Whalen, Entomology/IPM Specialist- 302/831-1303, jwhalen@udel.edu
Nancy Gregory, Plant Diagnostian/ Diagnostic Lab Coordinator – 302/831-1390, ngregory@UDel.edu

County Offices
New Castle County: Carrie Murphy – 302/831-2506, cjmurphy@udel.edu,
New Castle County: Dan Severson, 302/831-2506, severson@udel.edu
Kent County: Phillip Sylvester – 302/730-4000, phillip@udel.edu
Sussex County: Tracy Wootten – 302/856-7303, wootten@udel.edu
Sussex County: Cory Whaley – 302/856-7303, whaley@udel.edu

UD Plant Diagnostic Clinic
http://extension.udel.edu/ag/plant-diseases/ud-plant-diagnostic-clinic
151 Townsend Hall
531 S. College Ave
Newark, DE 19716
302-831-1390

UD Nematode Assay Service
http://extension.udel.edu/ag/plant-diseases/nematology/

MARYLAND
University of Maryland
UMd Ag Extension: http://extension.umd.edu/topics/agriculture
Maryland Vegetables: http://extension.umd.edu/mdvegetables
Vegetable & Fruit Headline News: http://extension.umd.edu/anne-arundel-county/agriculture/vegetable-fruit-headline-news

UMd Extension Specialists
Amy E. Brown, Pesticide Coordinator
Cerruti R. R. Hooks, IPM and Insect Ecology
Galen Dively (Emeritus), Entomology and IPM

Wye Research and Education Center
Robert J. Rouse (Emeritus), Horticulture Specialist
Lower Eastern Shore REC-Salisbury
Kathryne L. Everts, Plant Pathologist
Central Maryland REC-Upper Marlboro
Gerald E. Brust, IPM Vegetable Specialist

UMd Plant Diagnostic Lab
https://extension.umd.edu/plantdiagnosticlab
Department of Entomology
4112 Plant Sciences Building
College Park, MD 20742-4454
301-405-1611
State Extension Information

NEW JERSEY
Rutgers, The State University of New Jersey
New Jersey Ag Experiment Station: http://njaes.rutgers.edu/ag/
Fact Sheets: http://goo.gl/PyBwOb
Plant & Pest Advisory: http://plant-pest-advisory.rutgers.edu
Vegetable Crops Online Resources: http://nj-vegetable-crops-online-resources.rutgers.edu
Pesticide Applicator Certification Information, NJ DEP Pesticide Control Program
http://www.nj.gov/dep/enforcement/pcp/bpo-appprivate.htm#part2

Rutgers NJAES Extension Specialists
A.J. Both, Specialist in Controlled Environment Engineering
Thomas Orton, Specialist in Vegetables
George Hamilton, Specialist in Pest Management
C.A. Wyenandt, Specialist in Vegetable Pathology
Joseph Heckman, Specialist in Soil Fertility
For complete listing and contact information see: http://njaes.rutgers.edu/personnel/unit.asp?id=es&s=d&b1=View

Rutgers Cooperative Agricultural Extension Agents
Farm Food Safety
Wesley Kline, Cooperative Extension of Cumberland County; Meredith Melendez, Cooperative Extension of Mercer County
Horticulture
Michelle Infante-Casella, Cooperative Extension of Gloucester County, Peter Nitzsche, Cooperative Extension of Morris County;
Richard VanVranken, Cooperative Extension of Atlantic County
For complete listing and contact information see: http://njaes.rutgers.edu/personnel/unit.asp?id=arma&s=d&b1=View

Rutgers NJAES Plant Diagnostic Lab and Nematode Detection Service
http://njaes.rutgers.edu/plantdiagnosticlab/
20 Indyk-Engel Way
North Brunswick, NJ 08902
Telephone: 732-932-9140
Fax: 732-932-1270
Email: clinic@njaes.rutgers.edu

Rutgers Soil Testing Lab
http://njaes.rutgers.edu/soiltestinglab/
57 US Highway 1
New Brunswick, NJ 08901-8554
Telephone: 848-932-9295
Email: soiltest@njaes.rutgers.edu

PENNSYLVANIA
The Pennsylvania State University
PennState Extension: http://extension.psu.edu
Fact Sheets: http://extension.psu.edu/plants/vegetable-fruit/fact-sheets
Vegetable and Small Fruit Gazette: http://extension.psu.edu/plants/vegetable-fruit

PSU Horticulture Team Directory
For complete listing and contact information see: http://extension.psu.edu/plants/vegetable-fruit/directory

Plant Diagnostic Clinic
http://plantpath.psu.edu/facilities/plant-disease-clinic
220 Buckhout Laboratory
University Park, PA 16802
814-865-2204
State Extension Information

VIRGINIA
Virginia Tech & Virginia State University
Virginia Ag Extension: http://www.ext.vt.edu/topics/agriculture/index.html
Fact Sheets: http://www.ext.vt.edu/topics/agriculture/index.html
Virginia Tech Pesticide Programs: http://vtpp.ext.vt.edu

Virginia Extension Specialists
Ramón A. Arancibia, Assistant Professor, Horticulture
Mark S. Reiter, Associate Professor, Nutrient Management
Steve L. Rideout, Associate Professor, Plant Pathology
Tom P. Kuhar, Professor, Entomology
Laura K. Strawn, Assistant Professor, Food Microbiology
Charles W. Cahoon, Assistant Professor, Weed Science
James A. Parkhurst, Associate Professor, Wildlife
David B. Langston, Jr., Professor, Plant Pathology
R. Allen Straw, Area Specialist, Horticulture
Jayesh Samtani, Area Specialist, Small Fruit

Plant Disease Clinic
106 Price Hall
170 Drillfield Drive, Virginia Tech
Blacksburg, VA 24061-0331
Phone: 540-231-6758
Fax: 540-231-7477
Email: clinic@vt.edu

WEST VIRGINIA
West Virginia University
West Virginia Ag Extension: http://www.ext.wvu.edu/agriculture
Fact Sheets: http://anr.ext.wvu.edu/commercial-horticulture

West Virginia University Extension Specialists
Lewis W. Jett, Ph.D, Extension Horticulture Specialist
2102 Agriculture Sciences Building, Morgantown, WV 26506-6103 (304) 293-2634

Rakesh S. Chandran, Ph.D, Extension Weed Specialist and IPM Coordinator
1076 Agriculture Sciences Building Morgantown, WV 26506-6108 (304) 293-2603

MM (Mahfuz) Rahman, PhD, Extension Plant Pathology Specialist
G101 South Ag. Sciences Building, Morgantown, WV 26506-6108 304-293-8838

Plant Diagnostic Clinic
http://anr.ext.wvu.edu/pests/plant-diagnostic-clinic
G102 South Ag. Sciences Building
PO Box 6108
Morgantown, WV 26506-6108
Tel: 304-293-8838/288-9541
Email: mm.rahman@mail.wvu.edu

Soil Testing Lab
http://soiltesting.wvu.edu
G140-B Agricultural Sciences Bldg.
P.O. Box 6108
Morgantown, WV 26506-6108
Phone: (304) 293-6023 ext. 4312, 4311
E-mail: jgorman@wvu.edu
# Quick Reference: Tables

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For Immediate Medical Attention
Call 911

For a Pesticide Exposure Poisoning Emergency Call

For All States
Pesticide Poisoning: Call the Poison Center (800) 222-1222

This number will automatically connect you to the poison center nearest you. Anyone with a poisoning emergency can call the toll-free telephone number for help.

Personnel at the Center will give you first-aid information and direct you to local treatment centers if necessary.

For Pesticide Spills

Small Spills: See the product label for cleanup advice.
Large spills: Call the National Response Center at 1-800-424-8802 or CHEMTREC 800-424-9300 - Industry assistance with emergency response cleanup procedures for large, dangerous spills.

Be aware of your responsibility to report spills to the proper state agency.