Dr. Patrick Conner
University of Georgia – Tifton Campus
Blueberries
Brambles
Bunch Grapes
Muscadines
Strawberries
Muscadines

Production

- Crop Profile for Grapes in North Carolina [6/12/03]
- Establishing Muscadine Grapes
- Georgia Muscadine Production Guide (html)
- Georgia Muscadine Production Guide [1/14/05]
- Muscadine Grape Budgets [11/28/06]
  - Estimated Production Costs, Gross Revenues, and Returns per Acre for Muscadine Grapes Grown for the Wine and Juice Markets, Single Wire Trellis System with No Irrigation
  - Estimated Production Costs, Gross Revenues, and Returns per Acre for Muscadine Grapes Grown for the Wine and Juice Markets, Geneva Double Curtain Trellis System with No Irrigation
  - Estimated Production Costs, Gross Revenues, and Returns per Acre for Muscadine Grapes Grown for the Wine and Juice Markets, Double Curtain Trellis System with Drip Irrigation
  - Estimated Production Costs per Acre for Muscadine Grapes Grown for the Wine and Juice Markets, Geneva Double Curtain Trellis System with Drip Irrigation Fourth through Twelfth Years (yield = 10.0 tons per acre)
- Muscadines
- Muscadine Grape Breeding Program [6-7-06]
- Muscadine Q&A [6-7-06]
- United States Standards for Grades of Muscadine (Vitis rotundifolia) Grapes [2-12-06]

Note: You will need the Acrobat Reader to view these files.
Georgia Muscadine Production Guide

Table of Contents:

<table>
<thead>
<tr>
<th>Section Number</th>
<th>Section Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
</tr>
<tr>
<td>2</td>
<td>Costs and Returns from Muscadines</td>
</tr>
<tr>
<td>3</td>
<td>Uses of Muscadines</td>
</tr>
<tr>
<td>4</td>
<td>Areas of Adaptation</td>
</tr>
<tr>
<td>5</td>
<td>Vineyard Location</td>
</tr>
<tr>
<td>6</td>
<td>Cultivars</td>
</tr>
<tr>
<td>7</td>
<td>Selection and Care of Transplants</td>
</tr>
<tr>
<td>8</td>
<td>Vineyard Arrangement and Pollination</td>
</tr>
<tr>
<td>9</td>
<td>Row Orientation and Length</td>
</tr>
<tr>
<td>10</td>
<td>Soil Preparation</td>
</tr>
<tr>
<td>11</td>
<td>Vineyard Planning for Post and Plant Spacing</td>
</tr>
<tr>
<td>12</td>
<td>Selecting Posts</td>
</tr>
<tr>
<td>13</td>
<td>Setting the Plants</td>
</tr>
<tr>
<td>14</td>
<td>Trellises</td>
</tr>
<tr>
<td>15</td>
<td>Training the Vines to the Trellis</td>
</tr>
<tr>
<td>16</td>
<td>Multiple Trunk Training Method</td>
</tr>
<tr>
<td>17</td>
<td>Single Trunk Training Method</td>
</tr>
<tr>
<td>18</td>
<td>Dormant Pruning of Cordon the First Time (Initial Long-Range Pruning System)</td>
</tr>
<tr>
<td>19</td>
<td>Pruning Young Bearing and Mature Vines</td>
</tr>
<tr>
<td>20</td>
<td>Pruning Neglected Vines</td>
</tr>
<tr>
<td>21</td>
<td>Fertilization</td>
</tr>
<tr>
<td>22</td>
<td>Irrigation of Muscadines</td>
</tr>
<tr>
<td>23</td>
<td>Soil and Leaf Analysis for Muscadines</td>
</tr>
<tr>
<td>24</td>
<td>Recommendations for Organic Method Growers</td>
</tr>
<tr>
<td>25</td>
<td>Possible Strategies for Over-producing Cultivars</td>
</tr>
<tr>
<td>26</td>
<td>Cold Protection and Recovery Strategies</td>
</tr>
<tr>
<td>27</td>
<td>Weed Control and Cover Crops</td>
</tr>
<tr>
<td>28</td>
<td>Muscadine Grape Diseases</td>
</tr>
<tr>
<td>29</td>
<td>Controlling Muscadine Grape Diseases</td>
</tr>
<tr>
<td>30</td>
<td>Harvesting and Marketing</td>
</tr>
</tbody>
</table>
Select from the following links to view information regarding muscadine grapes.

- Newsletters
- Production
- Marketing
- Pest Information
- Regional Experts

Sponsored by:
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- Virginia Polytechnic Institute and State University
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The Southern Region Small Fruit Consortium - Box 7601 - North Carolina State University - Raleigh, North Carolina 27695-7601 - Phone: 919-515-6963
Please direct comments or suggestions to: Brenda J. Willis - Phone: 708-542-2471

Search WWW
www.smallfruits.org
Our regional experts are researchers and extension specialists in the field associated with the Southern Region Small Fruit Center. They are employed by the universities sponsoring the center and share their valuable knowledge with us, so you can be more productive.

Click on the links in table to get pertinent information about each of our regional experts, linked to the university they work for. Please feel free to e-mail questions to our regional experts.

- Clemson University
- NC State University
- Virginia Polytechnic Institute and State University
- University of Arkansas
- The University of Georgia
- The University of Tennessee
Regional Experts

Phillip Brannen
Pathology of Blueberries, Strawberries, Blackberries, Wine Grapes, Muscadines
pbrannen@uga.edu

C. J. Chang
Insects and Diseases
cchang1@uga.edu

Patrick J. Conner
muscadine cultivars
pconner@uga.edu

Jim Dutcher
Insects
dutch88@uga.edu

W. Florkowski
Agricultural Economics
wflorko@griffin.uga.edu

Greg Fonsah
Agricultural Economics
gfonsah@uga.edu

Dan Horton
Insects
dhorton@uga.edu

Bill Hurst
Food Science
bhurst@uga.edu

Gerard Krewer
Blueberries, Muscadines, Strawberries, Mayhaws, and Saw palmetto

D. Scott NeSmith
Blueberries
snesmith@griffin.uga.edu

Harald Scherm
Diseases of small fruit
scherm@uga.edu

Double click to send an email.
These links will be opened in a new browser window:

Unseasonable temperatures and what can be done...  
Frost and Freeze Protection

State Weather Maps

Georgia
Georgia Automated Environmental Monitoring 
Network
This link is Georgia weather as recorded by UGA 
stations. It is very useful to 
Georgia growers. This site has chill hour 
calculations, heat unit calculations, etc.
South Carolina 
North Carolina

Links

www.Agriweather.com
www.Weather.com
AgClimate
For current weather conditions, historical weather data and applications, please select a site on the map:

- Georgia temperatures normal, rain abnormal in November
- Georgia summertime weather seeps into September
- SECC Fall Climate Outlook
- SECC Agricultural Outlook
- Drought conditions expand into west, south Georgia
- Georgia summer sets record
- Mild drought returns to parts of Georgia
- Summer Heat Wave Facts
- Georgia sets record high and low temps in July
- Agrometeorologist from Georgia To Direct WSU AgWeatherNet
- Closing weather station would take away valuable decision-making tool
- Farmers benefit from science-based virtual farming software
- New rain gauge system will inform farmers
- Cold Duration Tool - Number of hours below 32 F
- Georgia farms will need more water in the future
- Climate and Weather Information for Georgia Farmers
- K-12 Weather School for Georgia educators
- Recent new stations: Ducker... more news
- To print a "printer-friendly" web page, simply select "File" and then "Print" or Click

www.georgiaweather.net/
Coastal Plain Experiment Station
The University of Georgia
Tifton, Tift County, Georgia

Current Conditions
Graph Current Conditions
Yesterday's Conditions
31-Day Summary
Graph Daily Data
Historical Data
Climate Data
Today's local forecast
Temperature Prediction
Minimum Temperature Estimator
Rainfall Calculator
Average Temperature Calculator
Soil Temperature Calculator
Degree Day Calculator
Chilling Hours Calculator
Growing Degree Hours Calculator
Cold Duration Calculator
Water Balance Calculator
Heating Degree Day Calculator
Cooling Degree Day Calculator
Seasonal Summary
First Frost Date
Last Frost Date
7-Day Summary Calculator

All units will be in US system. Click the button to use Metric units

Data requested on Tuesday January 4 2011 at 5:29:16 PM.

For Automated Environmental Monitoring Network information
or for comments or suggestions, please contact AEMN Support
Coastal Plain Experiment Station  
The University of Georgia  
Tifton, Tift County, Georgia

Chilling Hours Calculator

GATI2011.HRL not available

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<th>and Day: 1</th>
<th>2010</th>
<th>To: Dec</th>
<th>31</th>
<th>2010</th>
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<td>Oct-31</td>
<td>2009</td>
<td>2009</td>
<td>320</td>
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<td>2008</td>
<td>2008</td>
<td>376</td>
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<td></td>
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<td>2007</td>
<td>2007</td>
<td>220</td>
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Temp <= 45 °F

Data requested on Tuesday January 4 2011 at 5:32:46 PM.

For Automated Environmental Monitoring Network information or for comments or suggestions, please contact AEMN Support
www.weather.gov

Quick 5-day forecast

Detailed 7-day forecast

Radar, see storms coming.

Easiest to just fill in your zip code
Muscadines

Select from the following links to view information regarding muscadine grapes.

- Newsletters
- Production
- Marketing
- Pest Information
- Regional Experts

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Please direct comments or suggestions to: Brenda J. Willis - Phone: 706-542-2471

Search WWW
www.smallfruits.org
Best muscadine spray guide

IPM/Production Guides

- Blueberries
  - Southeast Regional Blueberry Integrated Management Guide
  - Southeast Regional Blueberry Horticulture and Growth Regulator Guide
- Bramble
  - Southeast Regional Brambles Integrated Management Guide
  - Southeast Regional Bramble Production Guide
- Bunch Grapes
  - Southeast Regional Bunch Grape Integrated Management Guide
- Muscadines
  - Southeast Regional Muscadine Grape Integrated Management Guide
- Strawberries
  - Southeast Regional Strawberry Integrated Management Guide
  - Southeast Regional Strawberry Plasticulture Production Guide
<table>
<thead>
<tr>
<th>Pest/Problem</th>
<th>Management Options</th>
<th>Amount of Formulation per acre</th>
<th>Effectiveness (+)</th>
<th>Mode of Action Code</th>
<th>REI</th>
<th>PHI</th>
<th>Comments and Precautions</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Do not apply more than 8 oz Flint per acre per season. Do not make more than 4 applications of Flint per season. Do not apply more than two applications of Flint before switching to a non-strobilurin fungicide.</td>
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<tr>
<td>Black rot</td>
<td>(Flint 50WG)</td>
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<td></td>
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<td></td>
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<tr>
<td>Bitter rot</td>
<td>pyraclostrobin</td>
<td>8-10.5 oz</td>
<td>+++</td>
<td>FRAC Code [11+7]</td>
<td>24</td>
<td>14</td>
<td>Do not make more than five applications of Pristine or related fungicides (strobilurin or carboxamide) per season. Do not make more than two sequential applications of Pristine before alternating with a fungicide with a different mode of action (neither strobilurin or carboxamide).</td>
</tr>
<tr>
<td>Angular leaf spot</td>
<td>bosalid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powdery mildew</td>
<td>(Pristine WG)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Do not make more than four applications of Sovran per acre per year. Do not apply more than 2 sequential sprays of Sovran. Alternate applications with other fungicides which have a different mode of action.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Black rot</td>
<td>Dithane M45</td>
<td>2-3 lb</td>
<td>+++</td>
<td>FRAC Code [M3]</td>
<td>24</td>
<td>66</td>
<td>Do not apply more than 24 lb Dithane M45, Manzate 200DF, Maneb 80WP or Penncoteb 75DF per acre per season. Repeat applications at 7 to 10 day intervals.</td>
</tr>
<tr>
<td>Bitter rot</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Angular leaf spot</td>
<td>Manzate 75DF</td>
<td>1.5-4 lb</td>
<td>+++</td>
<td>FRAC Code [M3]</td>
<td>24</td>
<td>66</td>
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<td></td>
<td>Maneb 75WP</td>
<td>1.5-4 lb</td>
<td>+++</td>
<td>FRAC Code [M3]</td>
<td>24</td>
<td>66</td>
<td></td>
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<tr>
<td></td>
<td>Penncoteb 75DF</td>
<td>1.5-4 lb</td>
<td>+++</td>
<td>FRAC Code [M3]</td>
<td>24</td>
<td>66</td>
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<tr>
<td></td>
<td>Ziram 76 DF</td>
<td>3-4 lb</td>
<td>+++</td>
<td>FRAC Code [M3]</td>
<td>48</td>
<td>21</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>captain</td>
<td>4 lb</td>
<td>+++</td>
<td>FRAC Code [M3]</td>
<td>96</td>
<td>0</td>
<td>Repeat Captan applications at 7 to 14 day intervals.</td>
</tr>
<tr>
<td></td>
<td>(Captan 50WP)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>captain</td>
<td>2 qt</td>
<td>+++</td>
<td>FRAC Code [M3]</td>
<td>96</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Captan 4L)</td>
<td></td>
<td></td>
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<tr>
<td>Powdery mildew</td>
<td>wettable sulfur</td>
<td>3-10 lb</td>
<td>+++</td>
<td>FRAC Code [M2]</td>
<td>24</td>
<td>--</td>
<td>Must be applied every 7-10 days. Dilute sulfur in 100 gal of water per acre. Sulfur is corrosive to sprayers and trellis wires.</td>
</tr>
<tr>
<td>ONLY</td>
<td>(Microthiol, various brands, 80 to 92% S)</td>
<td></td>
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</tr>
</tbody>
</table>
Muscadines

Production

- Crop Profile for Grapes in North Carolina [11/12/03]
- Establishing Muscadine Grapes
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  - Estimated Production Costs, Gross Revenues, and Returns per Acre for Muscadines Grapes Grown for the Wine and Juice Markets. Single Wire Trellis System with No Irrigation
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  - Estimated Production Costs, Gross Revenues, and Returns per Acre for Muscadines Grapes Grown for the Wine and Juice Markets. Geneva Double Curtain Trellis System with Drip Irrigation
  - Estimated Production Costs per Acre for Muscadine Grapes Grown for the Wine and Juice Markets, Geneva Double Curtain Trellis System with Drip Irrigation. Fourth through Twelfth Years (yield = 10.0 tons per acre)
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  - Muscadine Q&A [2-12-06]
  - United States Standards for Grades of Muscadine (Vitis rotundifolia) Grapes [2-12-06]

Note: You will need the Acrobat Reader to view these files.

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See also: Newsletters | Marketing | Past Information | Regional Experts

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Please direct comments or suggestions to Brenda J. Willis - Phone: 706-542-2471
www.smallfruits.org
Muscadine Grape Breeding Program

General Information

The University of Georgia operates the oldest breeding program dedicated to the improvement of the muscadine grape. The UGA program began in 1909, and over the years has released over 30 cultivars. Current goals of the program include the development of new cultivars that combine large berry size with perfect flowers, earlier and later harvest dates, berries with dry stem scars and edible skins, and increased cold hardiness.

The goal of this Web site is to provide information to home and commercial growers of muscadine grapes.
Cultivar Information

Flower type = Female
Berry color = Pink/Bronze
Year introduced = 1977
Variety protection = Unpatented

Average berry quality in Tifton, Ga. trials

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Berry weight (g)</th>
<th>Berry diameter (mm)</th>
<th>Soluble solids (%)</th>
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<tr>
<td>Summit</td>
<td>10.4</td>
<td>25</td>
<td>16.1</td>
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<tr>
<td>Fry</td>
<td>12.7</td>
<td>27</td>
<td>15.3</td>
</tr>
<tr>
<td>Supreme</td>
<td>17.7</td>
<td>31</td>
<td>13.9</td>
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</table>

Cultivar attributes in Tifton, Ga. trials

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Vine vigor</th>
<th>Leaf disease</th>
<th>Berry rot</th>
<th>% Full crop</th>
<th>Harvest period</th>
<th>Ripening</th>
<th>% Dry scar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summit</td>
<td>high</td>
<td>none</td>
<td>slight</td>
<td>80%</td>
<td>midseason</td>
<td>even</td>
<td>80%</td>
</tr>
<tr>
<td>Fry</td>
<td>medium</td>
<td>slight</td>
<td>slight</td>
<td>70%</td>
<td>midseason</td>
<td>even</td>
<td>90%</td>
</tr>
<tr>
<td>Supreme</td>
<td>medium</td>
<td>slight</td>
<td>none</td>
<td>90%</td>
<td>midseason</td>
<td>uneven</td>
<td>60%</td>
</tr>
</tbody>
</table>

History

'Summit' was released in 1977 by R. Lane of the University of Georgia. 'Summit' was selected from the cross 'Fry' × Ga. 29-49.

Comments

We currently recommend 'Summit' as a main season bronze muscadine for the fresh fruit market. Although 'Summit' is slightly smaller than 'Fry', it has better productivity, more berry rot resistance, and a drier stem scar. Color is slightly pinker than 'Fry', but otherwise its appearance is similar.
Muscadine Grape Breeding Program

General Information

The University of Georgia operates the oldest breeding program dedicated to the improvement of the muscadine grape. The UGA program began in 1909, and over the years has released over 30 cultivars. Current goals of the program include the development of new cultivars that combine large berry size with perfect flowers, earlier and later harvest dates, berries with dry stem scars and edible skins, and increased cold hardiness.

The goal of this Web site is to provide information to home and commercial Muscadine growers in Georgia and across the U.S. and to other interested parties about the Muscadine Grape Breeding Program's research activities, past and present, as well as to provide information about UGA's other research activities related to the Muscadine Grape.

Commodities: Fruits & Vegetables

Past talks archive

Other websites
Muscadine Books

The best single source for muscadine information is "Muscadine Grapes" edited by F. Basiouny and D. Himelrick, available from ASHS press. This book covers it all, including botany, history, breeding, culture, marketing, and processing.

You may also be interested in "The Joy of Muscadines" by Dr. J. Curtis Lane. This book primarily covers the history of muscadine culture. Also has good sections on home wine production and many muscadine recipes.

Muscadine Commercial Production Guides - Just Pick Your State!

- Alabama Commercial Muscadine and Bunch Grape Production Guide
- Growing Muscadine Grapes in Oklahoma (pdf)
- Mississippi State University Muscadine Production Guide (pdf)
- North Carolina Muscadine Production Guide (pdf)
- South Carolina (Clemson) Muscadine Production Guide
- Texas Muscadines
- The Georgia Muscadine Production Guide
- The Southern Region Small Fruit Consortium Muscadine Site - The best single source for muscadine information
- UGA Muscadine Trellis System
- University of Florida Muscadine Production Guide

Home Garden Muscadine Information
North Carolina’s Muscadine Site
North Carolina’s muscadine grape industry is growing. This site was developed to bring together the latest information from the Research and Extension Specialists at NC State University for muscadine growers throughout the state. For more information about the Specialists and their programs please visit the Resources page.

For more information about North Carolina’s muscadine industry please visit the website of the NC Muscadine Grape Association.

Please email questions or comments to Connie, Extension Associate for muscadine grapes at NC State University.
http://e-answers.adec.edu

Distance Education... Distance Education... Distance Education...

muscadine cultivars

Results 11 - 20 for muscadine cultivars (0.39 seconds)

[PDF] Caring for Backyard Vines - Caring for Backyard Muscadine Vines
File Format: PDF/Adobe Acrobat - Quick View
Commercial Cultivars. Of the numerous muscadine grape varieties, only a few account for most of the commercial production acreage...
www.ces.ncsu.edu/muscadines/muscadine/Caring_for_Backyard_Vines.pdf

ENY-683/IN174: Xylella Fastidiosa Diseases and Their Leafhopper ...
by RFMPC Anderson - 2003 - Related articles
Cultivars of Vitis vinifera will simply not survive in Florida. Many muscadine varieties, however, will exhibit partial to near complete resistance, ...
edis.ifas.ufl.edu/in174

[PDF] Muscadine vs. - Grape Leaves: Muscadines (Vitis rotundifolia) vs ...
File Format: PDF/Adobe Acrobat - Quick View
Muscadine Grapes. Native muscadines range from black or purplish to bronze when ripe, spherical to ellipsoidal (football-shaped). Newer muscadine cultivars ...
www.ces.ncsu.edu/muscadines/muscadine/Activities/MuscVsBunch.pdf

[PDF] Sustainability Assessment of Fruit and Nut Crops in North Florida ...
File Format: PDF/Adobe Acrobat - Quick View
by PC Anderson - Related articles
edis.ifas.ufl.edu/pdfs/files/MG/MG38700.pdf

Muscadine Production
Muscadine Grape Integrated Management Guide - NCDA&CS Agronomic Services for Grape Production: Popular Muscadine Cultivars in North Carolina
### Search Results for surflan

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<th>Product</th>
<th>Manufacturer</th>
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<tr>
<td>Surflan® A.S.</td>
<td>United Phosphorus, Inc.</td>
<td>Agriculture/Crop Protection Labels &amp; MSDS - USA</td>
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<tr>
<td>Surflan® AS</td>
<td>United Phosphorus, Inc.</td>
<td>Turf &amp; Ornamental / Non-Crop Labels &amp; MSDS - USA</td>
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</tr>
<tr>
<td>Surflan® WDG</td>
<td>United Phosphorus, Inc.</td>
<td>Turf &amp; Ornamental / Non-Crop Labels &amp; MSDS - USA</td>
<td></td>
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</tr>
</tbody>
</table>
Pesticide Product Label System (PPLS) - Search

Enter EPA Pesticide Product Registration Number:

Company Number - Product Number

Search  Clear

NOTE: To find all products for a particular Company, enter the Company Number and leave the Product Number blank.

Need to look-up a Registration Number?
Search the Pesticide Products Databases - The National Pesticide Information Retrieval System (NPIRS) offers databases on pesticide products, chemical names and company information.
The Core Historical Literature of Agriculture (CHLA) is a core electronic collection of agricultural texts published between the early nineteenth century and the middle to late twentieth century. Full-text materials cover agricultural economics, agricultural engineering, animal science, crops and their protection, food science, forestry, human nutrition, rural sociology, and soil science. Scholars have selected the titles in this collection for their historical importance. Their evaluations and 4,500 core titles are detailed in the seven volume series *The Literature of the Agricultural Sciences*, Wallace C. Olsen, series editor.

**Current online holdings:**  
**Pages:** 1,011,930  
**Books:** 2,047 (2,116 Volumes)  
**Journals:** 12 (510 Volumes)

For a related collection of core texts in the disciplines of home economics, see [Home Economics Archive: Research, Tradition and History (HEARTH)](http://hearth.library.cornell.edu/)

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(Back to top of page)