# The Kentucky Grapevine: Information Sources for Kentucky Grape Growers

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Introduction

What began several years ago as my quest for knowledge on the subject of growing grapes in Kentucky has slowly grown and evolved into this second, revised edition of The Kentucky Grapevine: Information Sources for Kentucky Grape Growers. As books, pamphlets, videocassettes, phone numbers, email addresses and internet site listings slowly accumulated, it became increasingly apparent that the information vital to Kentucky grape growers was not to be found in a single, convenient source. Therefore, I undertook the task of compiling and organizing all of these resources in order to help those of you seeking the best and most practical grape growing information.

This edition of The Kentucky Grapevine has been divided into several sections, containing critical information and vineyard supply sources for both the weekend vineyardist and the commercial grower. The first section contains a selection of core textbooks, pamphlets, and extension service publications pertinent to growing grapes in Kentucky. This is followed by several sections containing regularly published newsletters and industry journals, and a special listing of extension service publications available from the University of Kentucky College of Agriculture Cooperative Extension Service. The subsequent three sections include listings of grapevine nurseries, vineyard supply sources, and vineyard agricultural chemical suppliers. The last section of this guide has been revised to include “Viticultural and Enological Characteristics of Kentucky’s Interspecific Wine Grape Varieties”, which details the parents of the interspecific grape varieties grown in Kentucky in addition to pertinent information about each variety. This succinct guide is provided as a supplement to published information on these grape varieties in order to provide Kentucky-specific information important to the grower who is deciding which wine grape variety to plant.

Whether you intend to grow grapes for wine, table, or jelly, and regardless if you are practicing viticulture on a commercial scale, or just have a few vines in the backyard, growing grapes in Kentucky’s climate requires at least a basic understanding of site selection, pruning and trellising, and disease surveillance and control in order to be successful. Rest assured, however, that once you are armed with the right knowledge, equipment, advice, and resources, grape growing in Kentucky can be an extremely enjoyable and even profitable venture. It is my sincere hope that this manual serves you well in achieving success in your grape growing endeavors.

Best Wishes,

Chris Nelson
President, Kentucky Vineyard Society
October 23, 1999

This text was updated in 2007 by Chris Smigell, John Strang, and Kaan Kurtural of the University of Kentucky.
Basic Texts and Manuals for the Grape Grower

Many excellent extension publications and textbooks are available on growing grapes of all varieties. Start out with some of the basic, economical sources listed toward the beginning of each of the sections here, then if desired, you can progress into the more detailed (and often more expensive) publications appearing toward the end of each section.

Many of the books listed are available new or used at www.amazon.com.

This web site has an extensive list of wine and grape related titles as well:

http://winegrapes.tamu.edu/resources/books.shtml

The University of California bookstore also stocks many of those below:

http://bookstore.ucdavis.edu/Display.cfm?CatID=43&StartRow=21

Viticulture:

- **Grapes: Production, Management and Marketing** (Ohio State University Cooperative Extension Service Bulletin No. 815). Garth Cahoon, Michael Ellis, Roger Williams, Larry Lockshin. 1991 ($7.75 + $2.50 S&H)
- **Growing Grapes in Minnesota**. The Minnesota Grape Growers Association. 1991 ($10.00)
- **The Profitability of Investing in a Small Vineyard and Winery**. Paul Dakis, Peter Hayes, Drew Noon, John Whiting. CSIRO, Australia ($20.00)
The book serves as a successor to the popular “Oregon Winegrape Growers’ Guide,” offering broader, more in-depth coverage.

- **Grape Growing.** Robert J. Weaver. 1976. Wiley & Sons, IS
- **BN:** 0-471-923249 ($75.00)

### Grape Varietal and General Information:

- **Wine and Juice Grape Varieties for Cool Climates** (Cornell University Cooperative Extension Information Bulletin 233). Bruce I. Reisch, Robert M. Pool, David V. Peterson, Mary-Howell Martens, Thomas Henick-Kling. 1993 ($5.00) or at [www.nysaes.cornell.edu/hort/faculty/reisch/bulletin/wine/index2.html](http://www.nysaes.cornell.edu/hort/faculty/reisch/bulletin/wine/index2.html)
- **The Wines of the East: Native American Grapes.** Hudson Cattell, Lee Stauffer Miller. 1980 ($2.75)
- **The Wines of the East: The Hybrids.** Hudson Cattell, Lee Stauffer Miller. 1978 ($2.75)
- **The Wines of the East: The Vinifera.** Hudson Cattell, Lee Stauffer Miller. 1979 ($2.75)
- **Grape Varieties and Rootstock Varieties.** Pierre Galet. Oenoplurimedia. Chaintre, France; 1998 ($135.00)

### Grape Disease and Pest Management:

- **Kentucky Commercial Small Fruit and Grape Spray Guide** (University of Kentucky College of Agriculture Cooperative Extension Service Publication No. ID-94). Published Yearly (Free) (www.hort.purdue.edu/hort/ext/sfg/)
- **Midwest Small Fruit Pest Management Handbook** (soft cover $10.60, includes S & H)
- **Compendium of Grape Diseases** (American Phytopathological Society). Roger C. Pearson, Austin C. Goheen. 1994 ($40.00) (www.apsnet.org)
• Grape Pest Management, 2nd ed.\textsuperscript{5} (University of California at Davis). 1992 ($68.00)

• A Pocket Guide for Grape IPM Scouting in the North Central and Eastern U.S.  
  Rufus Isaacs, Annemiek Schilder, Tom Zabadal, Tim Weigle, Joy Landis, 2003 ($13.00) www.ipm.msu.edu/GrapePocket.htm

\textsuperscript{1} Available through your County Cooperative Extension Service Office
\textsuperscript{2} Available through: Publications Office, Department of Agricultural Communications, North Carolina State University, Campus Box 7603, Raleigh, NC 27695-7603
\textsuperscript{3} Available through: Media Services Resource Center, Cornell University, 7 Business and Technology Park, Ithaca, NY 14850; (607) 255-2080
\textsuperscript{4} Available through: UK College of Agriculture, Ag Distribution Center, Coal Pile Rd, Lexington 40546-0229
\textsuperscript{5} Available through: ANR Communication Services at 1-800-994-8849 or (510) 642-2431, or order on line at http://www.ipm.ucdavis.edu/GENERAL/orderpubs.html
\textsuperscript{6} Available through: L&H Photojournalism, 620 North Pine Street, Lancaster, PA; (717) 393-0943

\textbf{Grape Grower Newsletters:}

  Newsletters provide an up-to-date, regional, and economical (many are free) source of information. Many include a bulletin board listing wine and grape schools and conferences, in addition to classified ads offering vineyard equipment and grapevines for sale.

• Kentucky Fruit Facts (University of Kentucky College of Agriculture Cooperative Extension Service, Dr. John Strang, Ed.). Published Monthly (Free). Write to: Kentucky Fruit Facts, Research & Education Center, P.O. Box 469, Princeton, KY 42445 (www.ca.uky.edu/fruitfacts/index.htm)

• Facts for Fancy Fruit (Purdue University Dept. of Horticulture, Bruce Bordelon, Ed.). Published Monthly (Free) Write to: Bruce Bordelon, Department of Horticulture, Purdue University, 1165 Horticulture Bldg., West Lafayette, IN 47907-1165; (765) 494-1301 (www.hort.purdue.edu/fff/fff.html)

• Finger Lakes Vineyard Notes (Cornell University Cooperative Extension, Tim Martinson, Ed). ($20.00/yr.) Write to: Tim Martinson, Finger Lakes Grape Program, 110 Court Street, Penn Yan, NY 14527-1130; (315) 536-5134 http://flg.cce.cornell.edu/2007%20Vin%20Notes%20Subscription%20out%20of%20area.pdf

• The Maryland Grapevine (Maryland grape Growers Association) $15.00/yr., 1116 E. Deep Run Road, Westminster, MD, 21158, (410) 848-7577 (http://marylandwine.com/mgga/general/grapevine.html)

• Vineyard and Vintage View (Free) Department of Fruit Science, Southwest Missouri State University, Research Campus, Mountain Grove, MO 65711-9252 (http://mtngrv.missouristate.edu/grapenews.htm)
• Vineyard and Winery Information Series (Viticulture Notes by Tony Wolf and Vintner’s Corner by Bruce Zoecklein) ($10.00/yr) Winchester Agricultural Research and extension Center, 595 Laurel Grove Road, Winchester, VA 22606
  (www.ext.vt.edu/news/periodicals/viticulture/04januaryfebruary/04januaryfebruary.html)
• Grape Notes from the University of California Cooperative Extension, Tulare County
  http://cetulare.ucdavis.edu/pub/grapelst.htm
• Illinois Fruit and Vegetable News, from the University of Illinois at Urbana-Champaign
  http://ipm.uiuc.edu/ifvn/
  The Tender Fruit Grapevine, from the Ontario Ministry of Agriculture
  • www.omafra.gov.on.ca/english/crops/hort/tender_fruit.html

Grape and Wine Industry Journals:
  These colorful, information-packed publications are aimed primarily at the commercial grape grower and winery owner, but also provide information of interest to the hobbyist. Some also list a yearly guide to nurseries, equipment suppliers and other important industry sources. Others are circulated only to members of their respective societies.

• Practical Winery and Vineyard. Published bi-monthly. ($31.00/yr.) 15 Grande Paseo, San Rafael, CA 94903-1534; (415) 479-5819
  (www.practicalvineyard.com/)
• Vineyard and Winery Management. Published bi-monthly. ($27.00/yr.) 103 Third St., P.O. Box 231, Watkins Glen, NY 14891-9989; (607) 535-7133 or (800) 535-5670
  (www.vwm-online.com)
• Wines and Vines. Published monthly ($32.50/yr. Industry news, editorial columns on politics, legal and regulatory opinions, the world wine market, vineyard management. Also the Yearly Grape and Wine Industry Buyer’s Guide $65.00. The Haring Company, 1800 Lincoln Ave., San Rafael, CA 94901-1298; (415) 453-9700
  (www.winesandvines.com/)
• Wine East. Published bi-monthly ($20.00/ 1yr., $36.00/ 2yr.) Subscription includes annual Wine East Buyers’ Guide. L&H Photojournalism, 620 North Pine Street, Lancaster, PA 17603; (717) 393-0943
  (www.wineeast.com/)
• Grape Grower Magazine. Published monthly ($19.95/yr., but free for 1st 3 years to commercial growers) 4969 E. Clinton Way, Suite 119, Fresno, CA 93727-1549; (209) 252-7000
  (www.business-magazines.com/)
• American Journal of Enology and Viticulture. Published quarterly by the American Society for Enology and Viticulture. $130.00/yr., includes
• American Wine Society Journal. Published quarterly by the American Wine Society, $36.00/yr., includes membership to AWS. Contact: Angel Nardone, 3006 Latta Road, Rochester, NY 14612-3298 (www.americanwinesociety.com)

• Australian Journal of Grape and Wine Research. Published three times per year; an international journal that publishes peer-reviewed research results. www.asvo.com.au/ajgwr/


• Good Fruit Grower. Published Monthly June-December, and Semi-Monthly January-May, $30.00/yr., $75.00/3 yrs. Washington State Fruit Commission, 105 South 18th Street, Suite 205, Yakima, WA 98901-2149, (509) 575-2315 or (800) 487-9946. (www.goodfruit.com)

• Small Fruits Review. Published quarterly, $48.00/year. Peer-reviewed research results, applicable to the grower, extension agent, and educator. www.haworthpressinc.com/web/SFR/

• Wine Business Monthly. Published monthly, Free to qualified requestors (commercial growers and wineries), otherwise $69.00/yr. Wine Business Monthly, 867 West Napa Street, Sonoma, CA 95476, (707) 939-0822, Fax (707) 939-0833 (www.winebusiness.com/)

University of Kentucky Cooperative Extension Service Productions:
(Available free through your county extension agent)

Some of the most specific, well-written and practical guides for grape growing are available through state and county agricultural extension agencies. As you can see from the following list, Kentucky is no exception.

The following articles may be found at the Department of Plant Pathology website: www.ca.uky.edu/agcollege/plantpathology/PPAExten/pppublin.htm#Small%20fruit

• Black Rot of Grapes (PPA-27)
• Cane and Leaf Spot “Dead Arm” of Grapes (PPFS-FRS-1)
• Crown Gall (Pub. PPFS Gen 1)
• Powdery Mildew (Pub. PPFS Gen-2)

All of the following articles may be found at the Department of Horticulture website:
www.uky.edu/Agriculture/HLA/welcome.htm

• Fruit Facts
2005 Grape Cost and Return Estimates: Summary and Assumptions

- 2005 Grape Production Budgets - American Hybrid Wine Varieties
- 2005 Grape Production Budgets – European/ Hybrid Wine Varieties
- 2005 Grape Production Budgets - Table Grape Varieties
- Growing Grapes in Kentucky (ID-126, HTML or PDF)
- Kentucky Winegrape Growers Survey - December, 200
- Site Selection for European (Vinifera) Grapes Based on Kentucky Low Temperature Weather Data
- Grape Insects (ENTFACT-208)
- Black Rot of Grapes (PPA-27)
- Disease and Insect Control Programs for Home Grown Fruit in Kentucky Including Organic Alternatives (ID-21)
- Video: Pruning Grapes (VHO-0126)
- Video: Planning for a Commercial Table Grape Operation (VHO-0568)
- **Kentucky Grape Alert** – is an e-mail message that provides timely Kentucky disease and insect information during the season. Contact U.K. Horticulture personnel Joe Masabni, John Strang, or Chris Smigell to be set up to receive the alerts.

**Grower’s Guide to Grapevine Nurseries**

One of the single most important decisions facing the new grower is what grape varieties to plant. This is a highly personal decision, but buying quality vines from a reputable nursery can make the choice much easier. The following is a comprehensive listing of North American nurseries, including the types of vines which they sell, and how to contact them for more information.

**KEY:**
A=Native American Varieties
H=Interspecific Hybrid Varieties
V=Vitis vinifera Varieties
S=Seedless Varieties
N=New York (Including Numbered, Experimental) Varieties

**New York State**

Grafted Grapevine Nursery (A, H, V, N)
2399 Wheat Road
Clifton Springs, NY 14432-9312
(315) 462-3288 or (716) 526-6742                             No web site
Fax: (315) 462-5234

Double A Vineyards, Inc. (A, H, V, S, N)
10275 Christy Road
Fredonia, NY 14063
(716) 672-8493
Fax: (716) 679-3442                                                  www.Rakgrape.com
email: vine@rakgrape.com

Foster/Concord Nurseries, Inc. (A, H, V, S)
10175 Mile Block Road  
North Collins, NY 14111-9770  
(716) 337-2485 or (800) 223-2211  
Fax: (800) 448-1267  

Herman J. Weimer Vineyard, Inc. (V, H)  
P.O. Box 38, Route 14  
Dundee, NY 14837  
(607) 243-7971 or (800) 371-7971  
Fax: (607) 243-7983  

Dr. Konstantin D. Frank & Sons (V)  
Vinifera Wine Cellars, Ltd.  
9749 Middle Road  
Hammondsport, NY 14840  
(607) 868-4884 or (800) 320-0735  

Walter & Hilda Volz Vinifera Vineyard & Nursery (V)  
109 Gibson Street  
Bath, NY 14810  
(607) 776-2270  

Turnbull Nursery, Inc. (A, H, S)  
10036 Versailles Plank Road  
North Collins, NY 14111  
(716) 337-3812  
Fax: (716) 337-0318  
email: TURNBULL@PRODIGY.NET  
http://www.turnbullgardencenter.com/  

Miller Nurseries (A, H)  
5060 West Lake Road  
Canandaigua, NY 14424  
(800) 836-9630  

Congdon and Weller Wholesale Nursery (A,S)  
10308 Mile Block Road  
North Collins, NY 14111  
716-337-0171 800-345-8305  

Canada  
Mori Nurseries (H,V)  
RR #2  
Niagara-On-The-Lake  
Ontario LOS 1JO Canada  
(905) 468-3217, 468-0822  
Fax: (905) 468-0344  

Euro Nursery & Vineyard, Inc. (H,V)  
3197 Culp Road
Virginia
American Nursery (V, and selected Geisenheim hybrids)
Route 1, Box 87B1
Madison, VA 22727
(703) 948-5064
Fax: (703) 948-5150

Omega Virginia Nursery (V)
Rt. 4, Box 77
Leon, VA 22725
(703) 547-3703

Schloss Tucker Certified Grapevine Nursery (H, V)
38638 Old Wheatland Road
Waterford, VA 20197
(540) 882-3929

Missouri
Chaumette Vineyard (A, N)
1838 Kenneth Place
St. Louis, MO 63104
(314) 444-1927 or (573) 756-6522
Fax: (314) 444-1775 or (573) 756-6522
email: Johnsonh@daniel-henry.com

Stark Brother's Nursery and Orchard Co. (A, H)
P.O. Box 1800
Louisiana, MO 63353
(800) 325-4180
Fax: (324) 754-5290

Evergreen Nursery (H, V, N)
17 Southwinds Circle
Suite No. 7
Washington, MO 63090
(314) 390-2301
Fax: (314) 390-2332

Arkansas
Blossomberry Nursery (A, S)
Rt. 2 Box 28F
Clarksville, AR 72830
(501) 754-6489

Pense Nursery (A, H, S)
16518 Marie Lane
Mountainburg, AR 72946
Phone/Fax: (501) 369-2494  www.alcasoft.com/pense
e-mail: ppense@cei.net

Post Vineyard and Winery (A, H)
1700 St. Mary’s Mtn Rd
Altus, AR 72821
800-275-8423 (479) 468-2741  www.postfamilie.com

Boston Mountain Nurseries (A, H, S)
10340 Turner Bend Dr.
Mulberry AR 72947
479-997-1480  www.alcasoft.com/arkansas
email: ArBerryFarm@prodigy.net

California
Foundation Plant Material Service (A, V, H, S)
University of California, Davis
Davis, CA 95616  http://fpms.ucdavis.edu/
(916) 752-3590

Sonoma Grapevines, Inc. (V)
1919 Dennis Lake
Santa Rosa, CA 95403
(707) 542-5510
Fax: (707) 542-4801  www.sonomagrape.com

Duarte Nursery, Inc. (V)
1555 Baldwin Road
Hughson, CA 95326  www.duartenursery.com
(209) 531-0351

California Grapevine Nursery, Inc.
1085 Galleron Road
St. Helena, CA 94574-9790  www.californiagrapevine.com
(707) 963-5688 or (800) 344-5688

Geno’s Nursery (V)
18225-A Road 25
Madera, CA 93637  http://www.genosnursery.com/
(559) 674-4752

Sunridge Nursery (V)
441 Vineland Road
Bakersfield, CA 93307  www.sunridgenurseries.com
(661) 363-8463

Vinifera, Inc. Grapevine Nursery (V)
4288 Bodega Avenue
Petaluma, CA 94952  no web site
(707) 773-4557

Cal Western Nurseries (V)
16384 Avenue 264
Visalia, CA 93292
559-733-3130
no web site

Caldwell Nursery (V)
169 Kreuzer Lane
Napa, CA 94559
(707) 255-1294
Fax: (707) 255-5162
www.caldwellvineyard.com

Novavine Grapevine Nursery
6735 Sonoma Highway
Santa Rosa, CA 95409
(707) 539-5678
Fax: (707) 539-2819
email: info@novavine.com
www.novavine.com

Ponderosa Nurseries, Inc. (V)
464 S. Mooney Blvd.
Tulare, CA 93274-6101
(559) 688-6626 or (888) 810-4250
Fax: (559) 688-3542
www.ponderosanursery.com

Madera Nursery (S)
Kendall-Jackson Winery, Ltd.
421 Aviation Blvd.
Santa Rosa, CA 95403
(707) 544-4000 (800) 884-4441
Fax: (707) 544-4013

Oregon
King Estate Lorane Grapevines (V, H)
80854 Territorial Road
Eugene, OR 97405
(541) 942-9874 or (800) 884-4441
www.kingestate.com

Vinifera, Inc. (V)
8505 S.W. Creekside Place
Beaverton, OR 97008-7108
(503) 520-6250
Fax: (503) 643-2781
no web site

Lon J. Rombough (A, H, V)
P.O. Box 365
Aurora, OR 97002
(503) 678-1410
email: lonrom@hevanet.com/lonrom
www.bunchgrapes.com
Minnesota
Lake Sylvia Vineland Nursery (A, H, Including Elmer Swenson Hybrids)
Rt. 1, Box 149
South Haven, MN 55382 no web site
(612) 236-7685

Jewell Nurseries (H)
P.O. Box 457 no web site
Lake City, MN 55041
(800) 848-0933 (651) 345-3356

Ohio
Carl Remkus Nursery (A, H)
858 Bank Street no web site
Painesville, OH 44077
(216) 354-8817

Texas
Grayson County College (Munson Hybrids)
Viticulture and Enology Program
Thomas Volney Munson Memorial Vineyard
6101 Grayson Drive no web site
Denison, TX 75020
(903) 786-4382

Womack’s Nursery
Rt. 1, Box 80 no web site
De Leon, TX 76444-9660
(817) 893-6497

Vineyard Supply Sources
As with all jobs, owning the right equipment is one of the keys to success, especially in commercial ventures. Many supplies may be purchased locally, while specialized equipment may best found by contacting a vineyard and orchard supply specialist. Most of the supplies you will need can be purchased from one of the following sources.

General Supplies (pruning equipment, training supplies, backpack and commercial sprayers, trellising supplies, grow tubes, bird control items, harvest lugs, bamboo stakes, safety equipment, nursery and vineyard tools, clothing, vineyard thermometers etc.)

Orchard Valley Supply
1521 Mountainview Dr.
Quakertown PA 18951 www.orchardvalleysupply.com
888-755-0098

A.M. Leonard, Inc.
241 Fox Drive
PO Box 816
Piqua, OH 45356
(800) 543-8955

Jim Gonyer Supply (irrigation/plumbing supply)
522 E. Washington
Winchester, Ky
859-744-2043

Griffin Greenhouse & Nursery Supplies
1619 Main Street
Tewksbury, MA 01876
Tel: (978) 851-4346
Fax: (978) 851-0012

Forestry Suppliers, Inc.
PO Box 8397
Jackson, MS 39284-8397
(800) 647-5368
Fax: (800) 543-4203

Gentrees Grower Supplies
395 Pisgah Highway
Candler, NC 28715
(704) 665-1514

Trellis Supply Specialty Companies
Jim’s Supply Company, Inc.
(Specialized Trellis Supplies)
3530 Buck Owens Blvd.
PO Box 668
Bakersfield, CA 93302-0668
(661) 324-6514 or (800) 423-8016

A&P Ag Structures (Rail Steel T-Posts, J-R Clips)
11266 Avenue 264
Visalia, CA 93277
(559) 685-8700
Fax: (559) 685-8622

Bluegrass Treated Wood
3015 Catnip Hill Rd
Nicholasville Ky
606-887-2474

Burke, Parsons & Bowlby (wood posts)
Stanton, Ky
800-272-2365
Cameron and Cameron, Inc.  
(Vineyard Supplies)  
Fulton, Ca  
(800) 546-7706 (707) 546-7706  
http://www.ccivineyard.com/

Interstate Fencing Supply  
2098 Indian Mound Rd  
Mt. Sterling, 40353  
859-498-3757  
nor web site

Kiwi Fence Systems, Inc.  
(Trellising and Electric Fencing Supplies)  
121 Kiwi Road  
Waynesburg, PA 15370-8070  
www.kiwifence.com  
(724) 627-8158  
Fax: (724) 627-9791

McArthur Lumber & Post  
539 Sour Springs Rd  
Olympia Ky 40358  
606-674-6296

Vineyard Systems Manufacturing  
8422 Standustrial St  
Stanton, CA 90680  
(714) 821-7440 or (800) 858-6898

American Trellising, Inc.  
PO Box 5846  
Napa, CA 94558  
(707) 259-5222  
Fax: (707) 259-5220

Valley Vineyard & Orchard Supply  
PO Box 1042 420 N. Sacramento St.  
Woodbridge CA 95258-1042  
(209) 368-8595 or (800) 600-8944

Vineyard Sprayers

Jerry Holder  
Lovers’ Leap Vineyard and Winery  
104 Lovers’ Leap Ln  
Lawrenceburg, Ky  
502-839-1229  
http://www.loversleapvineyardky.com/

UAP-Richter/ John Phillips  
1061 Henderson-Ford  
Mooresville, IN 46158
phone & fax (317) 831-2559
voice pager (888) 474-6470 no web site

Swihart Sales Co. (Mist Sprayers)
Rt. 3, Box 73
Quinter, KS 67752
(785) 754-3513 or (800) 864-4595
www.Swihart-Sales.com

AgTec Crop Sprayers
5720 Smetana Drive
Minnetonka, MN 55343
www.agtecsprayers.com
(800) 704-4292

Flory Industries
P.O. Box 908
4937 Toomes Rd.
Salida, CA 95368
800-662-6677
Fax: (209) 545-4924
http://floryindustries.com

PBM Supply & MFG., Inc.
324 Meyer St.
Chico, CA 95927
(916) 345-1334 or (800) 688-1334
www.pbmsprayers.com

John Bean Sprayers
P.O. Box 1404
LaGrange, GA 30241
(800) 241-2308 or (706) 882-8161
www.johnbeansprayers.com

Spray-Air USA, Inc.
P.O. Box 37
Grangeville, Idaho 83530
(208) 983-2002 or (888) 286-6493
Fax: (208) 983-1103
email: sprayair@camasnet.com
www.sprayair.com

Grow Tubes
Pacific Western Container
(Vine Shelters and Vine Protectors)
1535 E. Edinger
Santa Ana, CA
(714) 547-9266 or (800) 241-3513
www.pacificwestern.com
Fax: (714) 953-9270

Treesentials Company, Inc.
(Supertube® Clipper, Snap N’ Grow, and Trilobite Grow Tubes)
Animal Pest Control (scare devices, netting, traps, deer fencing)
Abco Bird Control
(Super Bird Guard and other items)
Kelseyville, CA
(707) 479-3966

BirdGard Bird Scare Devices
P.O. Box 1690
601 North Larch Street,
Sisters, Oregon 97759
1-888-332-2328 (541) 549-0205
Fax (541) 549-5286

Fickle Hill Fence & Supply
(Polypropylene Deer Control Fence)
Arcata, CA 95521
(888) 633-3623
Fax: (707) 822-0403
www.northcoastweb.com/deerfence

JWB Marketing (Weitech Bird Alarm)
Westwood NJ 07675
800-555-9634, 201-666-8334

Jerry Holder
Lovers’ Leap Vineyard and Winery
104 Lovers’ Leap Ln
Lawrenceburg, Ky
502-839-1229
http://www.loversleapvineyardky.com/

Maplehurst Deer, Inc. (Deer Fencing)
P.O. Box 697
Bellville, TX 77418
(979) 865-0111
www.texaswildlifeservices.com/staytite.htm

Applica, Inc, (bought Weitech)
5980 Miami Lakes Drive
Miami Lakes
http://www.applicainc.com/
FL 33014
305-362-2611

Harvesting and Storage Bins
Carson-Brooks Plastics, Inc.
2120 Auto Centre Drive
no web site
For trellis supplies and some vineyard supplies available locally, also try Lowe’s, Home Depot, Tractor Supply Company, Southern States, Ace Hardware, Local Lumber Suppliers and other hardware dealers.

Vineyard and Orchard Agricultural Chemical Suppliers

With Kentucky’s diversity of insect and fungus pests, you won’t be the only one anticipating a bountiful harvest from your vineyard. Protect the fruits of your labors with insecticides and fungicides from one of the suppliers listed here.

Many of these chemical suppliers will ship pesticides if they are not restricted use materials.

For easy-to-read information about how toxic these chemicals are, go to:

http://pmep.cce.cornell.edu/profiles/extoxnet/

The Extension Services of Cornell University and Michigan State University have put together information sheets for many common pesticides. They provide information on what testing has been done to determine the chemicals’ effects on humans and wildlife, and the fate of these chemicals in the environment.

You can also find complete pesticide labels, and Material Safety Data Sheets at:

http://www.cdms.net/pfa/LUpdateMsg.asp
Go to this web site for a table showing the properties (potential for resistance development, systemic/contact activity, etc.) of grape fungicides:

http://axp.ipm.ucdavis.edu/PMG/selectnewpest.grapes.html

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<tr>
<td>Agriliance LLC (Spencer Searcy)</td>
<td>Sells less than case</td>
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<tr>
<td>P.O. Box 119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5018 Hwy 41N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Springfield, TN 37172 615-384-2573</td>
<td></td>
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<tr>
<td>Agri-Chem, Inc.</td>
<td>Yes-must be container sized qtys</td>
<td>Growers</td>
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<tr>
<td>1301 US Hwy 62 West Princeton, KY 42445</td>
<td></td>
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</tr>
<tr>
<td>(502) 365-7232</td>
<td></td>
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<tr>
<td>Agri-Chem, Inc.</td>
<td>?</td>
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<tr>
<td>1106 West 15th Street Hopkinsville, KY 42240</td>
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</tr>
<tr>
<td>(270) 886-0141</td>
<td></td>
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<tr>
<td>Highway 848 West Trenton, KY 42286</td>
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<tr>
<td>(270) 885-6280</td>
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<tr>
<td>Akridge Farm Supply</td>
<td>no</td>
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<tr>
<td>724 Fairview Ave Eddyville, KY (502) 388-2910</td>
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<td>Akridge Farm Supply</td>
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<tr>
<td>P.O. Box 175</td>
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<td></td>
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<tr>
<td>Fredonia, KY 42411</td>
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<tr>
<td>(502) 545-3332</td>
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<td>Big Rivers Agri-Supply (Miles Farm Supply)</td>
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<td>2760 Keller Rd</td>
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<td></td>
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<tr>
<td>Owensboro, KY 42301</td>
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<tr>
<td>(502) 926-8737</td>
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<td>Clements Ag Supply</td>
<td>Yes</td>
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<tr>
<td>1223 Lebanon Rd</td>
<td></td>
<td></td>
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<tr>
<td>Springfield, Ky (859) 336-3112</td>
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<td>Fruit Belt Service</td>
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<td>Formerly TERRA</td>
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<tr>
<td>200 Jamestown Rd</td>
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<tr>
<td>Cobden, IL 62920</td>
<td></td>
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<tr>
<td>(618) 893-4852</td>
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<tr>
<td>Otis Bryant &amp; Son Inc</td>
<td>Yes</td>
<td>Growers</td>
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<tr>
<td>512 E Maple St</td>
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<tr>
<td>Caneyville, Ky</td>
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<tr>
<td>(270) 879-3221</td>
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<td>Pro Source</td>
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<td>8104 Woodland Dr</td>
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<tr>
<td>Indianapolis, IN 46278</td>
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<tr>
<td>(800) 672-4273</td>
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<td>UAP Mid-South</td>
<td>Yes</td>
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<td>574 Horton Court</td>
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<tr>
<td>Lexington, KY 40511</td>
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<tr>
<td>(606) 254-3811</td>
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<td>UAP-Richter/ John Phillips</td>
<td>Will deliver if possible (ship UPS)</td>
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<tr>
<td>1061 Henderson-Ford</td>
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<tr>
<td>Mooresville, IN 46158</td>
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<tr>
<td>phone &amp; fax (317) 831-2559</td>
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<tr>
<td>voice pager (888) 474-6470</td>
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<td>Ryan’s Agri &amp; Pest Supplies</td>
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<tr>
<td>1130 West High Street</td>
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<tr>
<td>Lexington, KY 40508</td>
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<tr>
<td>(859) 233-0057</td>
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<tr>
<td>Robinson Milling Co</td>
<td>No</td>
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<td>P.O. Box 357</td>
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<tr>
<td>Somerset, KY 42502</td>
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<tr>
<td>(606) 678-4106, or 4107</td>
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<td>Royster Clark</td>
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<td>Highway 431</td>
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<tr>
<td>South Utica, KY 42376</td>
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<tr>
<td>(270) 733-4028</td>
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<tr>
<td>Royster Clark Retail</td>
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<tr>
<td>315 W Martin Luther King Dr</td>
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<tr>
<td>Union City, TN 38281</td>
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<tr>
<td>800-238-7244</td>
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<td>Salem Fruit Growers Coop Assoc</td>
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<td>12093 Lisbon Rd</td>
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<tr>
<td>P.O. Box 3</td>
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<tr>
<td>Greenford, OH 44422</td>
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<tr>
<td>(800) 423-3609</td>
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| Southern States Cooperatives  
(Locations statewide-check local listings) | ? | Growers |
| Warner Fertilizer and Chemical  
Box 188  
East Bernstadt, KY 40729  
(606) 843-6163 | No | Retailers, Growers |
| Warner Fertilizer and Chemical  
P.O. Box 796  
Somerset, KY 42502  
(606) 679-8484 | Yes | Retailers, Growers |
| Warner Fertilizer and Chemical  
Rte. 5, P.O. Box 5074  
Albany, KY 42602  
(606) 387-6415 | Yes | Retailers, Growers |
| Warner Fertilizer and Chemical  
P.O. Box 30  
Russell Springs, KY 42642  
(502) 866-5319 | Yes | Retailers, Growers |
| Warner Fertilizer and Chemical  
P.O. Box 274  
Columbia, KY 42728  
(502) 384-5042 | Yes | Retailers, Growers |
| Warner Fertilizer and Chemical  
P.O. Box 108  
Nancy, KY 42544  
(606) 636-6241 | Yes | Retailers, Growers |
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<td>P.O. Box 1100 Liberty, KY 42539</td>
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<tr>
<td>(606) 787-2215</td>
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<td>P.O. Box 441 Stanford, KY 40484</td>
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<td>606-365-9917</td>
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<tr>
<td>P.O. Box 215 Thomkinsville, KY 42167</td>
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<tr>
<td>(502) 487-5161</td>
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<td>P.O. Box 87 Campbellsville, KY 42718</td>
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<tr>
<td>(502) 465-6387</td>
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<td>P.O. Box 117 Monticello, KY 42633</td>
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<tr>
<td>(606) 348-8447</td>
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<tr>
<td>Valley Fertilizer</td>
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<tr>
<td>P.O. Box 180 Edmonton, KY 42129</td>
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<tr>
<td>(502) 432-2727</td>
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University-Based Viticulture Programs

University of Kentucky
   College of Agriculture Home Site
   http://www.uky.edu/Ag/Horticulture/comfruit.html#grapes

Kentucky Cooperative Extension County Offices/ Agents Listing
   www.ca.uky.edu/county/

Kentucky State University
   http://www.kysu.edu/land_grant

Cornell University
   Cornell Fruit Resources-grapes
   http://www.fruit.cornell.edu/grapes.html
   The Grape Pages, by Dr. Robert Pool
   www.nysaes.cornell.edu/hort/faculty/pool/GrapePagesIndex.html

University of California, Davis
   Department of Viticulture and Enology Cooperative Extension
   http://wineserver.ucdavis.edu/

California State University, Fresno - Viticulture and Enology Research Center
   www.atinet.org/cati/verc/

University of California Cooperative Extension, Tulare County
   Grape Extension Publications
   http://cetulare.ucdavis.edu/pubgrape/pubgrape.htm

Purdue University Agricultural Extension Fruit and Vegetable Connection
   www.hort.purdue.edu/fruitveg/fruit/grapes.shtml

Southwest Missouri State University Fruit Experiment Station at Mountain Grove
   http://mtngrv.missouristate.edu/dept.htm

University of Illinois at Urbana-Champaign
   http://w3.aces.uiuc.edu/NRES/faculty/Skirvin/cfar/index.htm

Washington State University Wine and Grape Program
   http://winegrapes.wsu.edu/
Various Viticulture and Winegrower Information Internet Web Sites of Interest

Winesearch-online.com – a good source for a wide range of information about wine and wine making
http://www.winesearch-online.com/categories/Categories.cgi/regions/usa

The Super Gigantic WWW Winegrape Glossary, by Anthony Hawkins
http://www.wineloverspage.com/hawkins/

Northwest Berry and Grape Information Net
http://www.osu.orst.edu/dept/infonet/

Grape Growing in North Carolina
http://www.agr.state.nc.us/markets/commodit/horticul/index.htm
http://www.ncwine.org

The Maryland Grape Growers Home Site
http://www.marylandwine.com/mgga/growing/cvem/03.html

Washington Association of Winegrape Growers
http://www.wawgg.org/

Smart Viticulture, Home site of Dr. Richard Smart

The USDA National Plant Germplasm System web site has a good introduction to origins and taxonomy of grapevines

Climatologic Information Sites

The Weather Channel Home site
http://www.weather.com/

National Oceanic and Atmospheric Administration Online Climatic Data
http://www.ncdc.noaa.gov/ol/climate/climatedata.html
University of Kentucky Agricultural Weather Information
http://wwwagwx.ca.uky.edu

USDA Agricultural Hardiness Zones
http://www.usna.usda.gov/Hardzone/ushzmap.html

Grape Disease Information Sites

University of Kentucky Plant Pathology Department-Extension
www.ca.uky.edu/agcollege/plantpathology/PPAEften/PPAEften.html
Kentucky Pest News - a newsletter providing timely information on anticipated and occurring diseases, insects, and pesticide information in Kentucky.
www.ca.uky.edu/agcollege/plantpathology/PPAEften/kpindex.htm

University of California Grape Pest Management Guidelines
http://axp.ipm.ucdavis.edu/PMG/selectnewpest.grapes.html

Michigan State University Fruit Crop Advisory Team Alert Newsletters
http://www.msue.msu.edu/ipm/fruitCAT.htm

Penn State Department of Plant Pathology – Compost in Vineyards
http://fpath.cas.psu.edu/

Washington State University Tree Fruit Research and Extension Center Fruit Pathology Site
http://fruit.wsu.edu/Diseases/grapealert.html

American Phytopathological Society Plant Pathology Site
http://www.apsnet.org

Organizations and Societies Important to Grape Growers

Kentucky Vineyard Society Home Page
http://www.kyvineyardsociety.org

The Indiana Winegrape Council Home Page
http://www.indianawines.org/iwgc/

Lodi-Woodbridge Winegrape Commission
www.lodiwine.com/
Viticultural and Enological Characteristics of Kentucky’s Interspecific Winegrape Varieties

Due to the lack of Kentucky field data for some new wine grapes, approach planting them with caution. The major challenge in growing grapes is winter injury, and it is likely to occur during a vine’s lifetime. The nature and extent of injury is not entirely predictable, due to the complex interaction between variety, site, and climate.

Other considerations when choosing varieties are the market, disease susceptibility, ripening date, yield potential, growth habit, and cultural requirements.

White Winegrape Varieties

**Seyval blanc**: Seyve-Villard 5276, S.5656 X S.4986 (Rayon D’Or)

Positive Characteristics

Moderate to good vigor; foliage relatively disease resistant; good cold hardiness (although dependent on crop loading), reliable, heavy producer; excellent crop
after spring frost; excellent quality, versatile, white wine grape with vinous character; good winery demand

Negative Characteristics

Early bud break; requires shoot and cluster thinning; tends to over-crop, tight clusters susceptible to Botrytis bunch rot; susceptible to powdery mildew fertilization and/or grafting important to maintain vigor

Vidal blanc: Vidal 256, S.4986 (Rayon D’Or) X Ugni blanc (Trebbiano)

Positive Characteristics

Good vigor; attractive and healthy foliage; moderate cold hardiness; reliable moderately heavy producer; very late bud break so almost never affected by late spring frosts; excellent quality, versatile, white wine grape producing wines with floral and fruity characteristics; good winery demand

Negative Characteristics

Foliage susceptible to phomopsis, downy and powdery mildews; also susceptible to soil-borne tobacco and tomato ring spot viruses so should be grafted for best vigor and health; requires cluster thinning

Vignoles: Ravat 51, S.6905 X Pinot de Corton (Pinot Noir)

Positive Characteristics

Excellent cold hardiness; late bud break; excellent quality white wine grape, especially well-suited to wine production, yielding wines with tropical fruit and floral tones; high winery demand

Negative Characteristics

Vines generally of low vigor; foliage susceptible to phomopsis, black rot, downy and powdery mildews; clusters small, tight and sparse so yield/acre is low and clusters are very susceptible to Botrytis; not as versatile in the winery due to very high titratable acids at desirable harvest Brix levels; needs to hang on the vine and clusters need sunlight exposure for good fruit composition

Traminette: NY 65.533.13, J.S. 23416 X Gewurtztraminer

Positive Characteristics

Excellent vigor and overall disease resistance; good cold hardiness; late bud break; good producer not requiring cluster thinning; excellent quality white wine indistinguishable from the unique, spicy wines made from Gewürztraminer; very high winery demand; wineries paying an average of $1,000 per ton for this variety.

Negative Characteristics

Unproven in Kentucky; uncertain market niche; good reception in Chicago area and metro-east in St. Louis; high vigor may be a problem on fertile soils; susceptibility to Phylloxera like Chardonel (may need to be grafted to resistant rootstocks)

Chardonel: NY 33403/G.W. 9, S.V. 5276 (Seyval blanc) X Chardonnay

Positive Characteristics
Good vigor; very vigorous on fertile soils; vigor depends on previous year’s crop load and nutrition management; good cold hardiness; cluster thinning not necessary in most years; clusters less susceptible to Botrytis than Seyval parent; good balance of TA, pH, and Brix for making premium dry white wines; name similarity to Chardonnay helpful in marketing variety to public; very high winery demand

Negative Characteristics

Early bud break; foliage may be susceptible to powdery and downy mildews; moderate yields compared to Seyval parent; recent reports of severe root borer damage in Virginia and Phylloxera damage to own-rooted vines in Virginia and Indiana, so grafting is now recommended; even with grafting, leaf form of Phylloxera occurs

**Cayuga White:** NY 33403/G.W. 3, S.V. 5276 (Seyval blanc) X Schuyler

Positive Characteristics

Vigorous; disease-resistant; highly productive of fruit which hangs well and resists rot; good cold hardiness; versatile wine grape suited to several different wine styles; variable winery demand

Negative Characteristics

Early bud break; definite window of desirable harvest time for still wine production; overripe fruit develops strong “hybrid” and native American grape aromas and flavors; excessive vigor in warm and fertile sites;

**Villard blanc:** Seyve-Villard 12375, S.6468 X S.6905

Positive Characteristics

Vigorous, productive; fruit clusters large, loose, very attractive and flavorful

Negative Characteristics

Foliage susceptible to powdery and downy mildews; only fair winter hardiness; requires long growing season to fully ripen fruit; wines high in iron content and thus may be difficult to clarify; wine quality average; limited winery demand

Others: Melody, Horizon, Rayon D’Or, Aurore, Ravat 6, Ravat 34, Verdelet

**Red Winegrape Varieties**

**Chambourcin:** Johannes Seyve 26205, ? S.7053 (Chancellor) X S.V.12417

Positive Characteristics

Moderate to good vigor; own-rooted; foliage relatively disease resistant; moderate cold hardiness; reliable, heavy producer; good quality, dry wines with excellent color; more tannin and body than other red interspecific winegrape varieties (if crop load managed properly); very high winery demand’ wineries paying an average of $1,000 per ton for this variety.

Negative Characteristics

Requires cluster thinning after fruit set; if pruned too heavy requires non-count shoot thinning; tends to over-crop; ripens very late in season with red vinifera varieties
Chancellor:  Seibel 7053,  S.880 X S.5163
Positive Characteristics
Good vigor; own-rooted; highly productive; excellent cold hardiness; good quality, versatile, red wine grape; mid-season ripening; good winery demand
Negative Characteristics
Early bud break (with Seyval); requires aggressive shoot and cluster thinning; foliage highly susceptible to powdery and downy mildews, and fruit susceptible to downy mildew

Norton/Cynthiana:  Norton’s Virginia, Norton’s Seedling    Vitis aestivalis
Positive Characteristics
Vigorous, healthy, and disease-resistant foliage and fruit so easy to grow with few sprays; excellent cold hardiness; reliable producer; produces dry, red wines with full body and varietal character which have been shown to age well; very high winery demand; wineries paying an average of $1,000 per ton for this variety.
Negative Characteristics
Expansive foliage must be adequately trellised (Geneva Double Curtain system recommended) and shoot-positioned; clusters relatively small so yields low; soil potassium and pH must be managed for good fruit composition; must has unusual combination of high pH and high TA, so requires creative and careful cellar practices; late maturing

Marechal Foch:  Kuhlmann 188.2,  M. 101-14 X Goldriesling
Positive Characteristics
Good vigor and general disease resistance so easy to grow; excellent cold hardiness; early season ripening lending itself to production of good Nouveau-type red wines; variable winery demand
Negative Characteristics
Very early bud break; small clusters so low yields unless multiple canes retained at pruning; early ripening and small black berries make Foch especially attractive to birds; total acidity and pH are problems in warmer climates

Leon Millot:  Kuhlmann 194.2,  M. 101-14 X Goldriesling
Positive Characteristics
Similar to Foch; where the two are grown side-by-side, Leon Millot tends to be slightly more vigorous, productive, and later ripening than Marechal Foch
Negative Characteristics
Same as those of Marechal Foch

De Chaunac:  Seibel 9549,  ? S.793 X S.5163
Positive Characteristics
Vigorous vine; no serious foliar disease susceptibility; heavy producer with numerous large clusters; good cold hardiness

Negative Characteristics

Requires aggressive shoot and cluster thinning; susceptible to soil-borne tobacco and tomato ring spot viruses, so should be grafted; a red wine that tends to lack color, body and tannin; limited winery demand

Baco noir: Baco 1, Vitis riparia X Folle Blanche

Positive Characteristics

Extremely vigorous and spreading variety with large attractive leaves; foliage generally disease-resistant

Negative Characteristics

Very early bud break; small clusters of small black berries ripen early; yields are low and fruit is appealing to birds; strong vigor difficult to adequately control, which may lead to fruit shading and susceptibility to winter injury; vines susceptible to soil-borne tobacco and tomato ring spot viruses; wines deeply colored but generally very highly acidic and low in tannins and body; limited winery demand

Villard noir: Seyve-Villard 18315, S.6905 X S.7053 (Chancellor)

Positive Characteristics

Foliage relatively disease-resistant except for susceptibility to powdery mildew; produces fair to good dry, red wine when grown on sites with long growing season

Negative Characteristics

Highly productive so requires cluster thinning (berry compensation with cluster thinning); requires long growing season to adequately ripen fruit; only moderate winter hardiness; often requires grafting to induce adequate vigor; limited winery demand

Frontenac: a lot of demand in Illinois and is used to make port style wines

Others: Chelois, Cascade, Rougeon, Colobel, Vincent, Rosette