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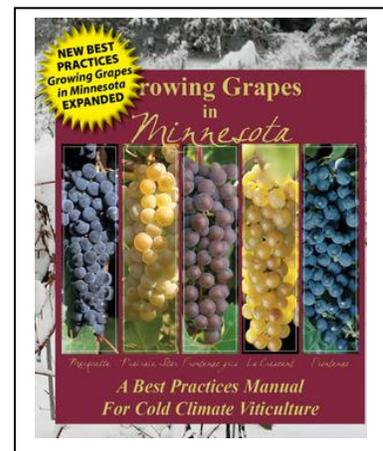
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Grape Growing Book and Videos Available from the MGGA (FREE)

The [Minnesota Grape Growers Association](#) has been working for past two years on the 10th addition of ***Growing Grapes in Minnesota***. This updated version consists of 17 chapters and 166 pages full of great information and color photographs. This edition was updated with current industry facts and figures, and introduces best management practices to enable growers to rate their current practices to the expectations of a well-managed vineyard. It is hoped that the material presented will be a useful reference and practical guide to grape growing in northern regions with severe winters.



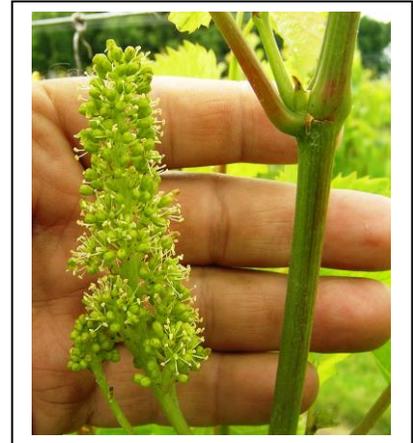
Now you can view or download the 10th edition of ***Growing Grapes in Minnesota*** online on the MGGA's Website here: www.mngrapes.org/growinggrapes. Also, check out the **14 Best Practice videos** here: <https://mngrapegrowers.site-ym.com/page/BestPracticeVideos>

This project was funded by the [Minnesota Department of Agriculture](#), as a [Specialty Crop Block Grant](#). It was a tremendous effort that we hope will benefit everyone growing grapes or planning a vineyard!

PS: **Rumor has it that this book may not be available free for long. Download it now!**
Thank You MGGA for doing this for the Cold Climate Winegrape growers. mlw

Grape Bloom

The time between leafing out and bloom can vary from 6 to 9 weeks. This will vary between cultivars, the period of day vs. night length and temperature. The number of days during which the vines are in bloom also depends on weather. Eight or ten days may be taken as normal when conditions for blooming are favorable. The grape calyptra (cap) becomes detached from the base (capfall) without stressing the plant. A series of cells in the region of detachment disintegrates to release it to expose the flowers for pollination. (1)



The flowers at the base of the cluster bloom first. Flowers of a single cluster may open in the course in one or two days. The clusters of a vine do not all attain bloom at the same time, however under favorable weather conditions blooming extends over a week or more. (1)

An individual grape cluster contains hundreds of flowers. However, not all of these flowers will set fruit and develop into berries. On average, 50 percent of flowers within an inflorescence set fruit and become berries. Fruit set that is low (less than 30 percent fruit set) can lead to clusters with few berries, and/or clusters with significant berry variability. This phenomenon is often called "hens and chicks" where large and small clusters exist within a cluster. (2)

Shatter or Coloure (French) is a physiological ailment afflicting the grapevine during bud break. If the vine is subjected to alternating conditions of dry/wet or hot/cold during this period, the vine begins to move sap past the embryonic grape clusters to the shoot-tips. This increases the foliage but at the expense of the grape cluster receiving vital nutrients that it needs to develop. The partially formed berries eventually dry up and drop to the ground (3)

The following factors can cause poor fruit set during bloom: (3)

- a. Vine Nutrition (too much or not enough)
- b. Water Stress (not enough)
- c. Vine Vigor (too much or not enough)
- d. Weather (cold, wet or cloudy)
- e. Damaging affects (hail, pesticides, insects, disease, etc...)
- f. Cultivar (some cultivars naturally tend towards poor pollination)

1. *General Viticulture*, 1974 – Winkler, Cook, Kliewer & Lider pp.125 -128
2. *Coulour*, Wikipedia: https://en.wikipedia.org/wiki/Glossary_of_viticulture_terms
3. *Causes of Poor Fruit Set in Grapes*, eXtension: <http://articles.extension.org/pages/33106/causes-of-poor-fruit-set-in-grapes>

Register Now! 9th Annual International Cold Climate Competition



Registration is now open for the 9th annual International Cold Climate Wine Competition (ICWC)! The Competition will be held on August 17, 2017 at the Minnesota Landscape Arboretum in Chaska, MN..

The 43 official grape varieties are considered to be hardy without winter protection in USDA Zone 4 and are known to survive temperatures of -20°F or lower. They include all of the wine grape varieties developed by the University of

Minnesota grape breeding program, many of the varieties that legendary grape breeder Elmer Swenson developed, as well as several other varieties that are known to produce exceptional wine. A list of all accepted varieties and a full list of rules are available on the Minnesota Grape Growers Association (MGGA) registration [website](#). All commercial wineries are invited to enter wines made up of a minimum of 75% cold-hardy varieties.

Medal and award winners will be posted online, and many medal winners will have a chance to be featured during the 2018 Cold Climate Conference in March.

Online registration is open now. Reduced rate registration ends July 1, 2017. Final deadline for registration is July 31, 2017. To register, please visit www.mngrapes.org/icwc. Wines must be postmarked or delivered in-person by 4:30pm CDT on August 7, 2017 to qualify.

The ICWC is a partnership between the Minnesota Grape Growers Association and the University of Minnesota.

2017 Midwest Results at Indy International Wine Competition

The 2017 results of the 26th Indy International Wine Competition was posted online Thursday June 1st. There was a total of 1,918 commercial and amateur wines entered. Of the 1,671 commercial winery entries: 103 (7.0%) received double gold, 265 (18.0%) received gold, 739 (50.0) received silver and 362 (25%) received bronze medals.

Here is how Iowa and our neighboring states did at this 2017 competition.

State	# of Wineries	Double Gold	Gold	Silver	Bronze	Best of Class
Illinois	13	8	10	22	15	3
Iowa	8	2	8	16	10	3
Kansas	6	2	4	16	6	0
Minnesota	12	0	5	32	16	1
Missouri	5	1	3	13	11	0
North Dakota	2	0	0	3	1	0
Nebraska	3	0	1	6	2	0
South Dakota	2	0	2	13	2	0
Wisconsin	15	10	16	28	16	7
Total	66	23	49	149	79	14

Full results can be found here: <http://www.indyinternational.org/competition/2017/>

Viticulture vs. Viniculture

While “**viticulture**” refers to the science, study and production of grapes, “**viniculture**” refers to the same thing, but for grapes specifically for wine. I think that the terms are used somewhat interchangeably—many schools have degrees in **viticulture** that are specifically geared toward wine grape production.

Per the [Wine Spectator](#)

6-8, Tour & Taste of Cold Climate Grapes – Fargo, ND

When: Thursday, June 8, 2017 – Vineyard tour
2-4 pm, Wine tasting 4-6 pm



Where: NDSU Plant Sciences Greenhouse, 12th Ave N and 18th St N (vineyard tours) and the NDSU McGovern Alumni Center (tasting)

Cost: \$20 per person, includes tours, wine tasting and hors d'oeuvres

Details & Registration: <http://www.ndgwa.org/2017-tour-and-tasting/>

Anthropogenic Vineyard Soils: Soils that have their major properties derived from human activities. (examples: tillage, mixing, fertilizers, lime, composting, irrigation, etc...)

Iowa State Fair Amateur & Commercial Wine Competition

July 1st is the entry deadline for both the amateur and commercial wine competition. No late entries will be accepted for the commercial competition. The entry fee is \$25 per commercial entry. The amateur entry fee is \$5 per entry. A special late fee of \$10 will be required for amateur wine entries received from July 2nd - 8th.

Both the amateur and commercial Iowa Wine competition exhibits will be open to the public in Grandfather's Barn located at the [Wine Experience](#) from 9:00 a.m. to 9:00 p.m. each day of the Iowa State Fair.

Amateur entry form & rules:

<https://www.iowastatefair.org/upl/downloads/competition/premium-books/oenology-amateur-wine-beer-making-23.pdf>

Commercial entry form & rules:

<https://www.iowastatefair.org/upl/downloads/competition/premium-books/commercial-wine-23.pdf>

Grape Disease Control 2017

Wayne F. Wilcox, Department of Plant Pathology, Cornell University, NY State Agricultural Experiment Station, Geneva NY 14456

88 pages of great information on grape disease control.

<https://blogs.cornell.edu/grapes/files/2016/12/Wilcox-Grape-Disease-Control-2017-1uzpqi.pdf>

7-(14-17), Mid-American Wine Competition Includes Spirits in 2017

The 11th, Mid-American Wine Competition will be held at the Des Moines Area Community College in Des Moines again this year. New to this year's competition will be a "**Spirits**" competition.



Commercial Wineries & Distilleries in Mid-America region (Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Montana, Nebraska, North Dakota, Ohio, Oklahoma, Pennsylvania, South Dakota, Tennessee and Wisconsin) are eligible to enter the Mid-American Competition.

Entries need to be in by Friday June 30th. Traditional wine and spirits require an entry fee of \$45. Wine enrolled into the wine and food pairing competition requires a \$25 entry fee.

Complete details can be found here: <http://www.midamericanwine.org/>

Videos of Interest

1. SD: [Schade Vineyard & Winery](https://www.youtube.com/watch?v=EB2KPBB0qyM) – Volga, SD, 3-7-17 6:06 min:
<https://www.youtube.com/watch?v=EB2KPBB0qyM>
2. KS: *Somerset Wine Trail Trolley*, 5-17-17 5:48 min:
<https://www.youtube.com/watch?v=UAY7pkuK2ZM>
3. WI: [Parallel 44 Vineyard & Winery](https://www.youtube.com/watch?v=BTzk2iXUEB8) – Stangelville, WI, by WLUK SkyFox Drone, 1:32 min:
<https://www.youtube.com/watch?v=BTzk2iXUEB8>

GrapeVine Magazine Midwest Viniculture Expo 2018

What: 12 Midwest States plus Canada conference dealing with winegrapes and wine. First two days will be a conference & tradeshow. An awards ceremony for the wine competition



held in conjunction with this event will be held on the third day.

When: Wednesday – Friday, June 20-22, 2018

Where: [The RiverCenter](#), Davenport, IA

Sponsored by: [The GrapeVine Magazine](#)

Show n Tell



Palmer Amaranth Pest Alert, a new publication from the [North Central IPM Center](#). Palmer Amaranth (*Amaranthus palmeri*) is a very vigorous pigweed species that has developed herbicide resistance to [five different forms of herbicides](#). Glyphosate (Roundup) is one of these herbicides.

<http://ncipmc.org/action/alerts/palmer.php>

Marketing Tidbits



1. [Flipflop](#) variety pak wine display at Costco in West Des Moines, IA. 24 cans for \$29.99. Equal to \$3.75 per 750 ml bottle of wine. The flipflop brand started in 1981. It is owned by [The Wine Group \(TWG\)](#), the world's 2nd largest wine producer by volume. [Constellation Brands](#) is the world's largest wine company. 6-4-17 mlw

2. *US spirits consumption climbs 2.6% in 2016*, 6-2-17 The Spirits Business: <https://www.thespiritsbusiness.com/2017/06/us-spirits-consumption-climbs-2-6-in-2016/>
3. Check out [Cannon River Winery's](#) new "Brand" line of wines, 5-15-17, 0.31 min video: https://youtu.be/Ohr82JyK_jM (Not for the shy!)
4. WI: *Wine, cheese makers join forces for agri-tourism*, 6-7-17 Baraboo News Republic: http://www.wiscnews.com/baraboonewsrepublic/news/local/article_231a8bde-c262-5914-a5b2-1db3b128758c.html

Neeto Keeno

1. Oenotools latest Free winemaking App for IOS or Android:

<http://www.oenobrand.com/en/home/press-releases/november-2011-get-your-free-copy-of-oenotools--the-app-for-winemakers>

Notable Quotables

“I think it is a great error to consider a heavy tax on wines as a tax on luxury. On the contrary, it is a tax on the health of our citizens”.

---Thomas Jefferson

“Nothing makes the future look so rosy as to contemplate it through a glass of Chambertin.”

--- Napoleon Bonaparte

Articles of Interest

1. WI: *Elmaro, Wisconsin Winery of the Year, exceeds growth expectations*, 5-22-17 La Crosse Tribune: <https://tinyurl.com/y86wlwcg>
2. IA: *Santa Maria Vineyard And Winery, Bringing Focus Back To Wine, Closes Full-Service Restaurant*, 5-23-17 CBC Online: <https://tinyurl.com/yd567aj3>
3. IA: *Hometown Farmer - Grandma's Fruit Juice Winery*, 5-25-17 SiouxLand News: <http://siouxlandnews.com/sunrise/proud-to-be-a-hometown-farmer/hometown-farmer-grandmas-fruit-juice-winery>
4. IA: *Warren County Wines – Best in the state*, 5-26-17 Des Moines Register: <http://www.desmoinesregister.com/story/news/local/indianola/2017/05/26/warren-county-wines-best-state/102198522/>
5. IA: *Davenport vineyard pays homage to deep-rooted history*, 5-30-17 Quad City Times: <https://tinyurl.com/ycdukxyj>
6. *Managing frost: impact on vine nutrition and reserves (part 2)*, 5-30-17 Viticulture Blog: <https://blog-en.fruitionsciences.com/2017/05/30/french-frost-impact-vine-nutrition-reserves-part-2/>
7. MO: *Norton and Cynthiana grapes: are they different or the same?* 5-30-17 Missouri State: <http://news.missouristate.edu/2017/05/30/grapes-research/>
8. MI: *Rainfast characteristics of insecticides on fruit*, 5-30-17 Michigan State University: http://msue.anr.msu.edu/news/rainfast_characteristics_of_insecticides_on_fruit
9. WI: *New Bill Would Extend Operating Hours For Wisconsin Wineries*, 6-1-17 WI Public Radio: <http://www.wpr.org/new-bill-would-extend-operating-hours-wisconsin-wineries>
10. *Drift Checklist: What to Do if You Suspect Dicamba Damage*, 6-2-17 Progressive Farmer: <https://www.dtnpf.com/agriculture/web/ag/news/article/2017/06/02/suspect-dicamba-damage?referrer=NLSnapshot>
11. PA: *Early season grapevine canopy management, Part II: Early leaf removal (ELR)*,

6-2-17 Penn State Univ: <https://tinyurl.com/ybgeflog>

12. *How many 100 point wine scores are there?* 6-5-17 The Wine Gourd, <http://winegourd.blogspot.com/2017/06/how-many-100-point-wine-quality-scales.html>
13. MN: *Round Lake Vineyards & Winery receives six international awards*, 6-6-17 The Globe: <http://www.dglobe.com/news/business/4279113-round-lake-vineyards-winery-receives-six-international-awards>
14. MO: *Missouri's Mobile Bottling Line*, 6-8-17 Missouri Wines” <https://tinyurl.com/y86wlwcg>

Calendar of Events

6-8, Tour & Taste of Cold Climate Grapes – Fargo, ND. Details & Registration: <http://www.ndgwa.org/2017-tour-and-tasting/>

6-(19-21), Start Your Own Brewery Course – [Siebel Institute of Technology](http://www.siebelinstitute.com), Chicago
Registration & Details: <https://www.siebelinstitute.com/education/continuing/start-your-own-brewery/dates/>

6-(26-29), 68th National American Society for Enology (ASEV) and Viticulture National Conference, Bellevue, WA: <http://www.asev.org/2017-national-conference>

7-(10-12), 42nd ASEV- Eastern Section Annual Meeting – Charlottesville, VA:
<http://www.asev-es.org/>

7-25, Summer Grape Conference & Field Day by [Double A Vineyards](http://www.doubleavineyards.com) at the Clarion Hotel & Conference Center in Dunkirk, NY: at [Double A Vineyards](http://www.doubleavineyards.com) or by calling the 716-672-8493.

8-(10-12), Society of Wine Educators 41st Annual Conference at the Red Lion Hotel on the River, Portland Oregon, 7-21 registration deadline: <http://www.societyofwineeducators.org/>

10-(12-13), Bio Controls Conference, Hyatt Regency, Orlando Florida. Register here: <http://www.biocontrolsconference.com/usa-east/>

10-(22-24), Vendemia, the NWGGA celebration of our industry, [Lied Lodge Conference Center](http://www.liedlodgeconference.com) – Nebraska City, NE Save the Date. Details later: <http://www.nebraskawines.com/>

6-(20-22)-18, The GrapeVine Magazine Midwest Viniculture Expo 2018 - [The RiverCenter](http://www.rivercenter.org), Davenport, IA. Sponsored by: [The GrapeVine Magazine](http://www.grapevine.com)

Midwest Grape & Wine Industry Institute Updates:
<http://www.extension.iastate.edu/wine/content/institute-updates>

e-Viticulture: <http://eviticulture.org/>

Iowa Wine Growers Association: <http://iowawinegrowers.org/>

ISU Viticulture Extension: <http://viticulture.hort.iastate.edu/>

ISU Midwest Grape & Wine Industry Institute: <http://www.extension.iastate.edu/wine/>

Midwest Grape & Wine Industry Institutes Updates:
<http://www.extension.iastate.edu/wine/content/institute-updates>

ISU 2017 Midwest Fruit Pest Management Guide:
<https://store.extension.iastate.edu/Product/Midwest-Fruit-Pest-Management-Guide-2017>

Northern Grapes Project: <http://northerngrapesproject.org/>

VESTA (Viticulture Enology & Science Technology Alliance):
<http://www.vesta-usa.org/>

Dr. Tom Zabadal's YouTube Channel
<https://www.youtube.com/user/Viticultureinfo>

Michael L. White - CCA, CPAg, CSW
ISU Extension & Outreach Viticulture Specialist
909 East 2nd Ave. Suite E, Indianola, IA 50125
ph: 515-961-6237, fax: 6017, cell: 515-681-7286
mlwhite@iastate.edu
<http://www.extension.iastate.edu/wine>

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