

# Grape Cultivars for Consideration in Iowa

Cultivar	Characteristics								Disease Tolerance								Sensitivity		Comment
	Type	Color	Use	HS	Vig	GH	CT	WH	BR	DM	PM	Bot	Pho	Eu	CG	An	S	Cu	
<b>Aurore</b>	FAH	W	W	E	V	T	N	4	3	2	2	3	1	3	2	1	N	2	Diseases are a problem. Wine quality is fair; suitable for blending with labrusca-types.
<b>Baco Noir (Baco #1)</b>	FAH	B	W	M	VV	ST	N	4	3	1	2	2	1	2	3	1	N	?	Best on heavy soils. Berries high in acids but low tannins; potential for blending.
<b>Bath</b>	A	B	T,J	M	V	T	M	5	?	?	?	?	?	?	?	?	?	?	Has a mild labrusca flavor.
<b>Beta</b>	AH	B	J	E	V	T	N	6	1	1	1	1	?	?	?	?	?	?	Produces small, acidic berries; not suited for wine making.
<b>Bluebell</b>	AH	B	T,J,W	M	V	T	N	6	1	1	1	1	?	?	?	?	?	?	High quality labrusca type. Has better table quality than 'Concord', but produces a lighter juice. Not known for great wine quality.
<b>Brianna</b>	FAH	W	T,W	M	V	T	N	6	2	1	1	2	?	?	?	?	?	?	An Elmer Swenson cultivar. Medium-small, tight clusters w/ medium-large, thick-skinned berries. Produces a well balanced wine with a pineapple aroma & flavor. Somewhat susceptible to 2,4-D; moderately susceptible to dicamba. Endosulfan sensitive; somewhat sensitive to Nova plus captan.
<b>Buffalo</b>	A	B	T,J,W	E	V	T	N	5	?	2	3	2	?	?	1	?	N	?	Early season Concord-type w/ medium sized loose clusters.
<b>Canadice</b>	FAH	R	ST	E	V	T	Y	4	3	2	1	2	?	?	2	2	?	?	Clusters medium sized with small red berries. Less hardy than Reliance. Prone to winter trunk injury. Can be quite productive.
<b>Cascade</b>	FAH	B	W	E	V		M	4	1	1	2	1	2	2	1	?	N	?	Wine lacks character; suitable for blending.
<b>Cayuga White</b>	FAH	W	W	M	V	ST	M	4	1	2	1	1	2	1	2	3	N	1	Can be made into a variety of wine-types; when full ripened develops a labrusca taste. Somewhat susceptible to 2,4-D.
<b>Catawba</b>	A	R	J,W	L	MV	T	Y	5	3	3	2	1	3	1	1	1	N	2	Produces a high quality labrusca-flavored dessert wine.
<b>Chambourcin</b>	FAH	B	W	L	MV	SU	Y	3	3	2	1	2	1	?	3	1	Y	N	Tannins high; produces high quality varietals & blends. For trial only in warmest regions. Good tolerance to 2,4-D.

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<b>Chancellor</b>	FAH	B	W	EM	MV	ST	Y	4	1	3	3	1	3	1	3	2	Y	3	Very productive secondary buds. Produces high quality wines. Good tolerance to 2,4-D.
<b>Chardonel</b>	FAH	W	W	L	V	SU		4	2	2	2	2	3	?	2	1	N	?	Produces excellent wines when mature fruit are used.
<b>Chelois</b>	FAH	B	W	M	V	U	N	4	1	1	3	3	3	?	1		N	1	Prone to winter trunk injury. Wine quality ranks high; suitable for blending.
<b>Concord</b>	A	B	J,T,W	LM	VV	T	N	5	3	1	2	1	3	3	2	1	Y	1	Very 2,4-D sensitive. Characteristic labrusca flavor.
<b>Concord Seedless</b>	A	B	ST	EM	V	T	N	5	3	1	2	1	3	3	2	1	N	1	Clusters & berries smaller than Concord; higher flavor than Concord. Production is erratic; in warm years will produce seeded berries. 2,4-D sensitive.
<b>Corot noir™</b>	FAH	B	W	L	V	ST	Y	4	1	3	1	1	1	1	1	1	N	?	New cultivar, tested as NY70.809.10. A low acid cultivar. Good tolerance to 2,4-D.
<b>Cynthiana / Norton</b>	A	B	W	LM	V	T	N	4	1	2	1	1	1	?	1	1	Y	N	Long considered the best American grape for red wines. Wines are rich, & full-bodied. Susceptible to 2,4-D. For trial only in areas with a long growing season.
<b>DeChaunac</b>	FAH	B	W	M	V	SU	Y	4	1	2	2	1	3	3	2	2	Y	1	Wine quality varies with region; fair to excellent; local testing is required. Good tolerance to 2,4-D.
<b>Delaware</b>	A	R	J,T,W	M	LV	T	N	5	2	3	2	1	3	1	1	2	N	1	Very 2,4-D sensitive. Produces a high quality American-type wine.
<b>Edelweiss</b>	AH	W	T,J,W	E	V	T	N	5	?	1	2	2	?	?	1	2	N	N	Large clusters of medium-sized berries. Strong labrusca flavor when fully mature; often harvested early; wine fruity. Very early bud break. Moderately susceptible to 2,4-D. Young shoots very sensitive to "blow-out".
<b>Einset Seedless</b>	FAH	R	ST	E	V	T	M*	4	3	2	3	1	?	?	1	?	?	?	Clusters medium sized, moderately loose with ovoid red berries that have good storage potential. Trial in S-IA.
<b>Elvira</b>	AH	W	W	LM	VV	ST	Y	6	1	2	2	3	1	1	2	?	N	2	Berries prone to cracking. Wine is labrusca-flavored & frequently acidic.

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<b>Esprit</b>	FAH	W	W	M	V	ST	M	5	?	2	3	2	?	?	?	?	?	?	?	Large clusters; wine tends to be mild & fruity. Susceptible to 2,4-D.
<b>Fredonia</b>	A	B	T,J,W	E	MV	T	N	5	2	3	2	1	3	?	1	3	N	?	Produces a rose style wine w/ a pronounced labrusca flavor.	
<b>Frontenac</b>	FAH	B	W	M	VV	ST	M	6	2	1	2	2	1	?	?	1	N	N	Fruit quality is excellent, but high acidity at harvest is common. Leaves are relatively tolerant of 2,4-D, but berries are susceptible; susceptible to dicamba. Leaves are susceptible to grape phylloxera.	
<b>Frontenac Gris</b>	FAH	W	W	M	VV	ST	M	6	2	1	2	2	1	?	?	1	N	N	Color mutation of Frontenac. Appears to mature just ahead of Frontenac in IA w/ slightly lower acids. Produces a clean, crisp white or salmon-tinged white wine w/ an apricot or peach flavor.	
<b>GR-7</b>	FAH	B	W	M	VV	ST	N	6	1	2	2	2	1	1	2	1	N	?	Breaks bud very early. Good tolerance to 2,4-D; susceptible to dicamba. Requires basal shoot & lateral shoot thinning. Medium-small, tight clusters. Grapes are relatively low in acids; wines are rated good to very good.	
<b>Himrod</b>	FAH	W	ST	E	V	T	Y*	4	2	1	2	1	1	?	?	3	N	?	Clusters large, long, loose clusters with small, white berries having an excellent flavor. Rachis is brittle & may break when handled; berry prone to "shelling" in storage. Less hardy than Reliance	
<b>Horizon</b>	FAH	W	W	M	V			5	?	1	3	2	?	?	1	?	N	?	Low acidity & lack character; suitable for blending.	
<b>Interlaken Seedless</b>	FAH	W	ST	E	MV	T	M*	3	?	?	?	?	?	?	?	?	?	?	Clusters medium sized with small greenish-white berries of excellent quality. Requires long-cane pruning. Trial in S-IA.	
<b>Jupiter</b>	A	B	ST	E	MV	T	Y*	4	2	3	3	1	1	?	?	1	N	N	Less hardy than Reliance. Vines harden-off slowly in the fall. Berries have a semi-crisp texture and adherent skin; somewhat prone to berry drop. Not productive on secondary buds. Moderately susceptible to 2,4-D	
<b>Kay Gray</b>	AH	W	T,W	E	VV	T	N	6	1	1	1	1	?	?	1	?	?	?	Clusters & berries are small. Characterized by low acid levels. Musts are extremely susceptible to oxidation.	

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Landot noir (4511)	FAH	R	W	M	MV	SU	N	4	1	2	1	2	?	?	?	?	?	?	Same as Landot 4511. Moderately susceptible to 2,4-D.
La Crescent	FAH	W	W	E	V	ST	M	6	2	1	2	1	1	1	1	3	?	?	Promising new variety. Breaks bud very early. Somewhat susceptible to 2,4-D; very susceptible to dicamba. Young shoots are sensitive to "blow-out". Very loose clusters, berry set can be an issue.
La Crosse	FAH	W	W	E	VV	SU	N	5	3	2	2	3	2	?	?	1	N	N	Requires basal shoot & lateral shoot thinning; shoots tend to lay down in VSP systems. Medium-small, tight clusters w/ thin-skinned berries, subject to leaking. Wine is somewhat fruitier than Seyval. Good tolerance to 2,4-D; susceptible to dicamba.
Louise Swenson	AH	W	T,W	M	MV	ST	N	6	1	1	1	1	?	?	?	2	?	?	Low in sugars; produces an aromatic wine, but requires additional sugar; lacks body.
Leon Millot	FAH	B	W	E	VV	T	N	5	1	2	3	1	1	1	2	1	Y	?	Similar to Foch, but usually more vigorous & productive. Made into a wide range of wines. Susceptible to 2,4-D. Small, tight clusters. Requires lateral shoot thinning.
Maréchal Foch	FAH	B	W	E	LV	ST	N	5	2	1	2	1	1	3	2	2	Y	N	Breaks bud very early. Requires shoot thinning. With early ripening, birds can be a problem. Moderately susceptible to 2,4-D; susceptible to dicamba. Grapes are relatively low in acids; wines are rated good to very good. Small, tight clusters. Can be made into a wide range of wines.
Marquette	FAH	B	M	E	MV	ST	N	6	1	1	1	1	?	?	?	1	?	?	New cultivar, tested as MN 1211. Breaks bud very early. Moderately susceptible to 2,4-D and dicamba. Observed a variation in vine vigor between test plots in IA. Clusters are small.
Marquis	A	W	ST	EM	V	T	M*	4	1	3	3	1	3	?	?	3	N	N	Produces large berries on very large moderately compact clusters. Fall frost tender. Susceptible to 2,4-D. Not productive on secondary buds.
Mars	A	B	ST	M	VV	T	M*	4	1	1	1	1	1	?	1	1	N	N	Hardier than Reliance. Large berries borne in medium sized clusters; slipskins. Produces well on secondary buds. Moderately susceptible to 2,4-D.
Melody	FAH	W	W	M	V	ST	N	4	3	2	1	1	3	?	?	1	N	?	Produces a high quality, fruity wine.

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Neptune	A	W	ST	M	MV	T	Y	4	?	2	2	2	?	?	?	?	?	?	?	?	?	Clusters large with large ovoid berries. Productivity is moderate. Trial in S-IA.
Niagara	A	W	J,T,W	LM	MV	T	N	4	3	3	2	1	3	1	2	2	N	1			Pronounced labrusca flavor; low acidity. Leading white juice variety.	
Noiret™	FAH	B	W	LM	V	ST	?	4	2	2	2	1	1	?	2	1	N	?			New cultivar, tested as NY73.136.17. A low acid cultivar w/ notes of black pepper. Good tolerance to 2,4-D.	
Petite Amie	FAH	W	W					6?														A white wine grape with muscat flavors bred by David McGregor. Will begin testing in 2008.
Petite Jewel	AH	R	ST,W	VE	MV	T	Y*	6	1	1	?	?	?	?	?	?	?	?				Clusters medium sized with small, sweet, flavorful, spicy, red berries. Clusters hang well on the vine. Developed by Elmer Swenson.
Prairie Star	FAH	W	W	M	V	SU	N	6	2	1	1	1	?	?	?	2	?	?				Excellent body & S/A balance. Moderately susceptible to 2,4-D and dicamba. Young shoots have been reported sensitive to "blow-out". Suitable for VSP training.
Reliance	A	R	ST	E	MV	T	M*	4	3	3	2	1	2	?	?	3	N	N				One of the hardest seedless varieties. Berries very thin skinned; excellent quality. Very prone to berry drop. Moderately susceptible to 2,4-D
Remaily Seedless	FAH	W	ST	LM	VV	T	Y	4	?	1	1	1	?	?	?	?	?	?				Clusters large with medium sized oval berries with a neutral flavor. Berries are crack resistant & have good holding quality.
Sabrevois	FAH	B	W	E	VV	U	?	6	1	1	1	1	?	?	?	?	?	?				If picked early, it can make a high acid, medium bodied complex red wine with good tannins. Appears to do better in cooler climates.
Saturn	FAH	B	ST	M	MV	T	M*	3	2	3	2	?	?	?	?	2	?	?				Clusters medium-large with large, oval, bright red, crisp flavorful berries. Trial in S-IA.
St. Croix	FAH	B	W	E	V	ST	M	6	?	2	2	2	?	?	?	1	N	N				Requires thinning of multiple bud breaks and lateral shoots. Wine tends to be bland & neutral in character; suitable for blending. Berries are very thin skinned & prone to leaking. Slightly susceptible to 2,4-D; moderately susceptible to dicamba. Leaves are susceptible to grape phylloxera.

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<b>St. Pepin</b>	FAH	W	W,T,J	E	V	ST	N	5	?	1	3	2	?	?	?	?	?	?	Produces a very fruity wine w/ a slight labrusca flavor. Flowers do not produce pollen and other varieties are required for pollination; fruit set and low yields are an issue.
<b>St. Vincent</b>	FAH?	B	W	L	MV	U	M	4	2	2	2	2	?	?	?	?	?	?	Grape has developed a following in Missouri, but may not properly mature under Iowa's shorter growing season. Good tolerance to 2,4-D.
<b>Seyval Blanc</b>	FAH	W	W	M	MV	SU	Y	4	2	2	3	3	2	1	2	1	N	1	Wine quality is good w/ an attractive aroma, but body is somewhat thin.
<b>Somerset Seedless</b>	AH	R	ST,W	EM	MV	T	M*	6	?	?	?	?	?	?	?	?	?	?	Clusters medium sized with small, red, very sweet, flavorful berries. Developed by Elmer Swenson; hardest seedless cultivar.
<b>Steuben</b>	A	B	J,T,W	M	V	T	Y	5	2	1	1	1	?	?	1	1	N	?	Produces long tapering clusters. Used to produce American-type rose wines.
<b>Swenson Red</b>	AH	R	T, W	M	V	T	Y	5	1	3	2	2	?	?	?	?	?	?	Primarily a seeded table grape, but suitable for wine. Produces large clusters w/ large berries that have a meaty texture & adherent skin.
<b>Swenson White</b>	FAH	W	T,W	L	V	ST	M	6	1	2	2	1	?	?	?	2	?	?	Produces a high quality wine w/ a pronounced floral aroma. Very susceptible to 2,4-D and dicamba.
<b>Traminette</b>	FAH	W	W	LM	MV	SU	N	4	1	2	1	1	3	?	2	1	N	N	Winter trunk injury can be a problem. Very good balance between S/A & pH; produces an excellent wine. Vines harden-off very slowly. Moderately susceptible to 2,4-D.
<b>Trollhaugen</b>	AH	B	ST,W	E	V	T	M*	6	1	1	?	?	?	?	?	?	?	?	Clusters medium sized with small-medium sized, sweet berries having a mild Concord flavor. Developed by Elmer Swenson.
<b>Valiant</b>	AH	B	T,J	E	V	T	N	6	1	3	1	2	?	?	?	?	?	?	An improvement over Beta. Not suited for wine.
<b>Van Buren</b>	A	B	T,J	E	V	T	N	5	?	3	1	1	?	?	1	?	Y	?	Early ripening Concord-type.

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Cultivar	Characteristics								Disease Tolerance								Sensitivity		Comment
	Type	Color	Use	HS	Vig	GH	CT	WH	BR	DM	PM	Bot	Pho	Eu	CG	An	S	Cu	
<b>Vanessa</b>	A	R	ST	E	MV	T	M*	4	3	2	2	1	1	?	1	?	N	1	Medium sized, crisp textured berries on medium filled clusters. Susceptible to grasshoppers feeding; very susceptible to 2,4-D drift. Not productive on secondary buds.
<b>Ventura</b>	FAH	W	W	M	V	ST	M	6	2	2	2	1	1	?	1	1	N	?	Improvement over Elvira w/ crack-resistant berries. Wine has a pronounced labrusca flavor
<b>Venus</b>	A	B	ST	E	V	T	M*	4	1	3	1	3	?	?	?	?	?	?	Clusters medium-large with berries having a mild labrusca flavor. Trial in S-IA.
<b>Vidal blanc</b>	FAH	W	W	L	V	U	Y	4	1	2	3	1	1	1	2	3	N	?	Adapted to many wine styles including ice wine. Slightly susceptible to 2,4-D
<b>Vignoles</b>	FAH	W	W	M	LV	U	N	4	1	2	3	3	2	2	2	3	N	N	Can develop a high sugar content while retaining high acidity. Suitable for a variety of wines. Fall frost tender. Good tolerance to 2,4-D.
<b>Villard noir</b>	FAH	B	W	L	MV		Y	4	?	1	3	1	?	?	?	2	?	?	Produces a good quality red wine.
<b>Vincent</b>	FAH	B	W	L	MV	U	?	4	?	1	2	1	?	?	?	?	?	?	Produces a very dark juice that can be used for blending.
<b>Vivant</b>	FAH	W	W	M	V		M	4	2	2	2	2	?	?	?	?	?	?	Produces a light, crisp German-type wine.

**Type:** A= American; AH = American hybrid; FAH = French American hybrid.

**Color:** B= Blue / black; R = Red / rose; W= White.

**Use:** W = Wine; T=Table; ST = Seedless table; J =Juice.

**HS** (harvest season): E = early; M = mid-season; L = late season; LM = late mid-season.

**Vig** (vine vigor): LV = low vigor; MV = moderate/medium vigor; V = vigorous; VV = very vigorous.

**GH** (growth habit): T = trailing; ST = semi-trailing; SU = semi-upright; U = upright.

**CT** (need for cluster thinning): N = not required; M = maybe required; Y = required; \* = at bloom to improve berry size.

**WH** (winter hardiness; injury beginning at): 3 = Cold tender (-5 F); 4 = Moderately hardy (-10 F); 5 = Hardy (-15 F); 6 = Very Hardy (-20 F).

Adapted from tables developed by the New York St. Coop Ext. Service:

**Disease Susceptibility:** BR = Black rot; DM = Downy mildew; PM = Powdery mildew; Bot = Botrytis bunch rot; Pho = Phomopsis cane & leaf spot; Eu = Eutypa dieback; CG = Crown Gall; An = Anthracnose.

**Sensitivity:** S = Sulfur sensitivity; Cu = Cooper sensitivity.

**Key to Ratings:** 1 = Slightly susceptible or sensitive; 2 = Moderately susceptible or sensitive; 3 = Highly susceptible or sensitive; N = Not sensitive; Y = Sensitive; ? = Relative susceptibility or sensitivity not established.