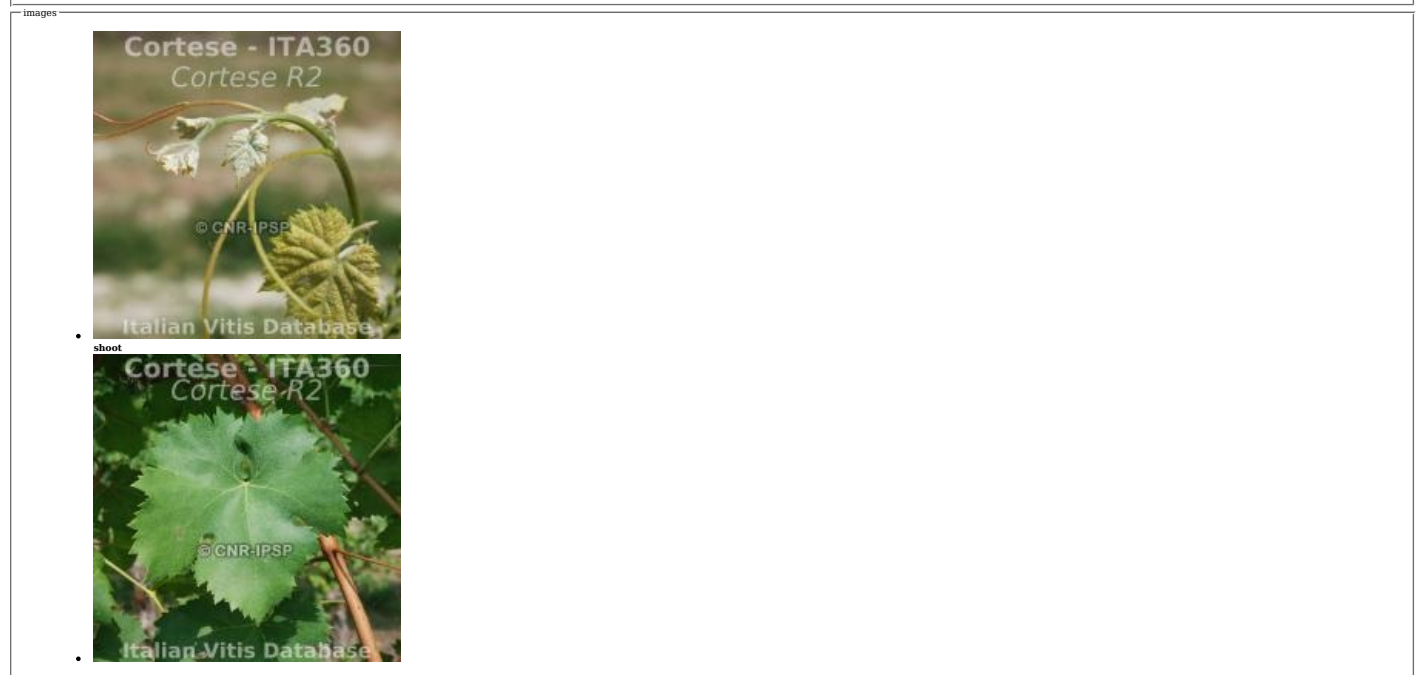


Cortese

Raimondi S., Torello Marinoni D., Schneider A., 2014. Cortese. In: Italian Vitis Database, www.vitisdb.it, ISSN 2282-006X
 release 13/06/2015, Last update 13/06/2015 url <http://vitisdb.it/varieties/show/1009>

general information managed by				
Istituto per la Protezione Sostenibile delle Piante - CNR				
acknowledgments				
Ager Foundation, Regione Piemonte				
botanical information				
name	Cortese			
type of origin	spontanea			
specie	Vitis vinifera			
variety group	not available			
genera	Vitis			
subspecie				
sativa				
variety for	wine			
trueness to type	confirmed by ampelography and SSR-markers			
code	IVD-var_63			
IVD-var_63				
true-name	confirmed yes			
related bibliography (1)				
authors	year	title	journal	citation
Dalmasso G., Dell'Olio G., Ricci P.	1960	Cortese		Principali vitigni da vino coltivati in Italia. Ministero dell'Agricoltura e delle Foreste, Volume I, 12.
registration				
Registered in the National Catalogue				
yes				
code	69			
Official name	Cortese B.			
synonyms				
official synonyms (1)				
synonyms reported in the National Catalogue				
<ul style="list-style-type: none"> Bianca Fernanda(Provincia di Verona) 				
main accession info				
main accession				
Cortese R2				
creation submitter				
Istituto per la Protezione Sostenibile delle Piante - CNR				
standardized accessions (1)				
<ul style="list-style-type: none"> Cortese R2 - Istituto per la Protezione Sostenibile delle Piante - CNR 				
all accessions (1)				
<ul style="list-style-type: none"> Cortese R2 - Istituto per la Protezione Sostenibile delle Piante - CNR 				
released clones (15)				
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standardized microsatellite profile				
loci:	predefined loci (9)			
SSR locus:	VVS2 VVMD5 VVMD7 VVMD27 VvZAG62 VvZAG79 VVMD25 VVMD28 VVMD32			
allele:	A1 A2 A1 A2 A1 A2 A1 A2 A1 A2 A1 A2 A1 A2 A1 A2			
size:	133 151 225 235 249 249 179 183 200 202 247 251 242 250 237 251 253 253			



leaf



bunch



berry

Historical references

The appearance of Cortese in the Piedmontese viticultural scenario must have been rather late, considering its earlier quotation dates back to 1614, when its wine is listed in the cellar inventory of the Casale Monferrato castle (Nada Patrone, 1991), along with Grignolino and other wines from unknown grape varieties. Cortese wine must have been highly reputed at the times, since 'a small vase full with white wine from Cortese' was numbered in the "Gift annotation" offered to the young empress Margherita Teresa from the Asburgo house, when she passed through Acqui Terme on her journey from Madrid to the imperial palace of Vienna (Giorcelli, 1894).

The first Cortese's brief description was given by count Nuvolone (1798), followed by the slightly more detailed depiction by the reporter from Valenza De Cardenas (Acerbi, 1825), who still considered Cortese "a grape good for fresh consumption, but giving a weak flavourless wine". The grape's use as table grape is also mentioned later in XIX century.

Thanks to its generous productivity, Cortese became during the period when the Ampelography of the province of Alexandria was written (Demaria e Leardi, 1875), "the white grape variety more intensively cultivated in the province".

The reference modern description is the one by Dalmasso et al. (1960), published by the Italian Ministry of Agriculture.

distribution & variation

The Cortese spread, for centuries basically limited to the current provinces of Alessandria and Asti, only from XIX century started to touch other areas of Piedmont. Since unknown times, Cortese is also present in the production area of the wine Bianco di Custoza (near Verona), where it is called Bianca Fernanda.

The current total acreage of Cortese is about 3,000 hectares, all located in Italy, especially in its historical, traditional growing areas in Piedmont (ISTAT, 2010).

technological use

Cortese grapes are used for producing white wines still, fizzy or sparkling, usually with moderate alcohol content and scarcely pronounced scent, typically provided by an appreciated slightly bitter tinge.

Wines more intensely scented, and richest in texture and alcohol, are obtained where environment and/or cultural practices usefully limit plant yield and vigour.

ampelography

OIV	description		value
001	Young shoot: opening of the shoot tip	5	fully open
003	Young Shoot: intensity of anthocyanin coloration on prostrate hairs of tip	1 / 3	none or very low / low
004	Young Shoot: density of prostrate hairs on tip	7	high
007	Shoot: color of dorsal side of internodes	1 / 2	green / green and red
008	Shoot: color of ventral side of internodes	1	green
016	Shoot: number of consecutive tendrils	1	2 or less
051	Young leaf: color of the upper side of blade (4th leaf)	1 / 2	green / yellow
053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	5 / 7	medium / high
067	Mature leaf: shape of blade	3 / 4	pentagonal / circular
068	Mature leaf: number of lobes	3 / 4	five / seven
070	Mature leaf: area of anthocyanin coloration of main veins on upper side of blade	1 / 2	absent / only at the petiolar point
072	Mature leaf: goffering of blade	1	absent or very weak
074	Mature leaf: profile of blade in cross section	5	twisted
075	Mature leaf: blistering of upper side of blade	1 / 3	absent or very weak / weak
076	Mature leaf: shape of teeth	2 / 4	both sides straight / one side concave, one side convex
079	Mature leaf: degree of opening / overlapping of petiole sinus	7	overlapped
080	Mature leaf: shape of base of petiole sinus	1	U-shaped
081-1	Mature leaf: teeth in the petiole sinus	1	none
081-2	Mature leaf: petiole sinus base limited by veins	1	not limited
083-2	Mature leaf: teeth in the upper lateral sinuses	9	present
084	Mature leaf: density of prostrate hairs between the main veins on lower side of blade	3 / 5	low / medium
087	Mature leaf: density of erect hairs on main veins on lower side of blade	3	low
094	Mature leaf: depth of upper lateral sinuses	5	medium
151	Flower: sexual organs	3	fully developed stamens and fully developed gynoecium
202	Bunch: length (peduncle excluded)	7	long
204	Bunch: density	3	loose
206	Bunch: length of peduncle of primary bunch	7	long
208	Bunch: shape	2	conical
209	Bunch: number of wings of the primary bunch	2 / 3	1 - 2 wings / 3 - 4 wings
220	Berry: length	5	medium
221	Berry: width	3 / 5	narrow / medium
223	Berry: shape	3	broad ellipsoid

images

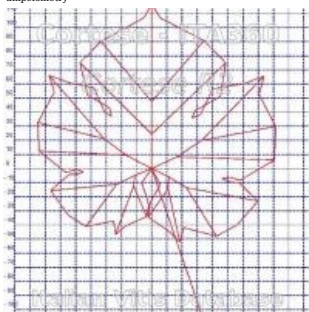


225	Berry: color of skin	1	green yellow
231	Berry: intensity of flesh anthocyanin coloration	1	none or very weak
236	Berry: particularity of flavor	1	none



241	Berry: formation of seeds	3	complete
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ampelometry



ampelometric leaf

OIV	PDF	description	value
601	PDF	Mature leaf: length of vein N1	(116.70)
602	PDF	Mature leaf: length of vein N2	(97.80)
603	PDF	Mature leaf: length of vein N3	(72.80)
604	PDF	Mature leaf: length of vein N4	(54.85)
605	PDF	Mature leaf: length petiole sinus to upper lateral leaf sinus	(45.20)
606	PDF	Mature leaf: length petiole sinus to lower lateral leaf sinus	(46.60)
607	PDF	Mature leaf: angle between N1 and N2 measured at the first ramification	(62.15)
608	PDF	Mature leaf: angle between N2 and N3 measured at the first ramification	(52.20)
609	PDF	Mature leaf: angle between N3 and N41 measured at the first ramification	(57.20)
610	PDF	Mature leaf: angle between N3 and the tangent between petiole point	(59.25)
611	PDF	Mature leaf: length of vein N5	(24.20)
617	PDF	Mature leaf: length between the tooth tip of N2 and the tooth tip of the first secondary vein of N2	(45.30)
618	PDF	Mature leaf: opening/overlapping of petiole sinus	(-5.50)

superampelo

descriptor	value	standard deviation
Distance from the petiole sinus to the lower left sinus	46.200	8.600
Distance from the petiole sinus to the lower right sinus	47.000	6.700
Distance from the petiole sinus to the upper left sinus	45.700	10.700
Distance from the petiole sinus to the upper right sinus	44.700	8.900
Vein N3', length from the petiole sinus to vein N4'	12.400	3.100
Vein N3, length from the petiole sinus to vein N4	12.900	2.800
Length of vein N5'	23.900	5.200
Length of vein N5	24.500	7.000
Length of vein N4'	45.200	7.800
Length of vein N4	47.600	8.400
Distance between petiole point and end of vein N4'	53.700	8.500
Distance between petiole point and end of vein N4	56.000	9.600
Leaf length	171.100	26.000
Leaf width	152.000	22.900
Leaf length including the petiole	233.000	37.300
Petiole length	116.300	21.800
Length of vein N1	116.700	18.800
Distance between the ends of veins N2 and N2'	142.100	26.500
Distance between the ends of veins N3 and N3'	137.200	22.200
Distance between the ends of veins N4 and N4'	43.100	20.300
Width of petiole sinus / Distance between points SP and SP'	5.500	3.400
Length of vein N2	99.400	13.500
Length of vein N2'	96.200	15.000
Length of vein N3	74.400	9.900
Length of vein N3'	71.200	10.200
Distance between the tooth tip of N2 and the tooth tip of the first ramification (secondary vein) of N2'	47.300	12.400
Distance between the tooth tip of N2' and the tooth tip of the first ramification (secondary vein) of N2'	43.300	17.000

descriptor	value	standard deviation
Angle between N1 and N2 measured at the first bifurcation	62.900	5.800
Angle between N1 and N2' measured at the first bifurcation	61.400	8.400
Angle between N2 and N3 measured at the first bifurcation	53.500	9.900
Angle between N2 and N3' measured at the first bifurcation	50.900	5.100
Angle between N3 and N4 at the first fork of N3	57.500	6.900
Angle between N3' and N4'	56.900	5.700
Angle between N1 and N2 measured at the ends of the veins	48.200	6.500
Angle between N1' and N2' measured at the ends of the veins	45.700	11.300
Angle between N2 and N3 measured at the ends of the veins	60.200	7.400
Angle between N2' and N3' measured at the ends of the veins	58.300	6.500
Angle between N3 and N4 measured at the ends of the veins	52.800	7.900
Angle between N3' and N4' measured at the ends of the veins	49.800	7.800
Angle of opening of the petiole sinus measured at SP and at SP'	8.600	8.000
Angle between D and D' with the center in N1	99.300	10.400
Angle between S and S' with the center in N1	38.000	11.600
Angle between I and I' with the center in N1	41.700	6.800

descriptor	value	standard deviation
Media of the base of the teeth of the left side	8.540	1.870
Media height of the teeth of the left side	7.630	1.920
Media of the base of the teeth of the right side	8.470	2.090
Media height of the teeth of the right side	7.830	2.090
Ratio between the height and the base of the tooth at the end of the vein N4'	1.100	0.790
Ratio between the height and the base of the tooth at the end of the vein N4	0.890	0.130
Ratio between the height and the base of the tooth at the end of the vein N2'	0.990	0.180
Ratio between the height and the base of the tooth at the end of the vein N2	0.990	0.150
Ratio between the height and the base of the teeth of the left side	0.900	0.140
Ratio between the height and the base of the teeth of the right side	0.930	0.120

Ratio between the sum of the angles 'a + b' and the sum of the distance between the petiole sinus and upper right sinus OS' and the petiole sinus and lower right lower right sinus OI'	0.020	0.010
Ratio between the sum of the angles a + b and the sum of the distance between the petiole sinus and upper right sinus OS and the petiole sinus and lower right lower right sinus OI'	0.020	0.010
Ratio between the length of the vein N5' and the length of the vein N1	0.210	0.030
Ratio between the length of the vein N5 and the length of the vein N1	0.210	0.040
Ratio between the length of the vein N4' and the length of the vein N1	0.390	0.050
Ratio between the length of the vein N4 and the length of the vein N1	0.410	0.060
Ratio between the length of the vein N3' and the length of the vein N1	0.640	0.050
Ratio between the length of the vein N3 and the length of the vein N1	0.640	0.070
Ratio between the length of the vein N2' and the length of the vein N1	0.830	0.070
Ratio between the length of the vein N2 and the length of the vein N1	0.860	0.070
Ratio between length and width of the leaf	1.130	0.060
Ratio between the length of the petiole OP and the length of the vein N1	1.000	0.130
Ratio between the distance from the sinus and the length of the vein N2	0.460	0.100
Ratio between the distance from the sinus and the length of the vein N2'	0.480	0.100
Ratio between the distance from the petiole sinus to the lower right sinus OI and the length of vein N3	0.640	0.080
Ratio between the distance from the petiole sinus to the lower left sinus OI' and the length of vein N3'	0.650	0.090

bibliographies (7)

authors	year	title	journal	citation
Acerbi G.	1825	Delle viti italiane, ossia materiali per servire alla classificazione, monografia e sinonimia, preceduti dal tentativo di una classificazione delle viti.		Ed. G. Silvestri - Milano
Dalmasso G., Dell'Olio G., Ricci P.	1960	Cortese		Principali vitigni da vino coltivati in Italia. Ministero dell'Agricoltura e delle Foreste, Volume I, 12.
Demaria P.P., Leardi C.	1875	Ampelografia della provincia di Alessandria		Ed. Negro, Torino.
Giorcelli G.	1894	Documenti storici del Monferrato. Passaggio per l'alto Monferrato e per Acqui dell'imperatrice Margherita d'Austria nell'anno 1666 (3-4 settembre) e di Filippo 5. Re di Spagna nell'anno 1702 (14-15 giugno).		In: Rivista di storia, arte, archeologia della prov. di Alessandria, Tip. G. Jacquemod (Alessandria).
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Nuvolone G.	1798	Sulla coltivazione delle viti e sul metodo migliore di fare e conservare i vini.		Calendario georgico della Società Agraria di Torino.