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Zagarese di Avetrana

de Palma L., Dimaggio M., Masi G., De Michele M., Amendolagine A.M., Tomaiuolo A., Limosani P., 2014. Zagarese di Avetrana. In: Italian Vitis Database, http://it.grapedb.org ISSN 2282-006X.

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Information managed by

Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia

General information

name Zagarese di Avetrana
code ITA428-DM7
country of selection Italia
region of selection Puglia
province of selection Taranto
locality of selection Avetrana (TA)
holding institution Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia
collection vineyard Az. Dimaggio (Taranto)

Variety & clone

type of origin spontanea
genera Vitis
specie Vitis vinifera
subspecie sativa
variety Kosinjot
variety code IVD-var_487
clone not available
trueness to type confirmed by ampelography and SSR-markers

Trueness to type

True-name

confirmed **yes**

related bibliography (1)

authors	year	title	journal	citation
A.A.V.V.	2011	European Vitis database		http://www.eu-vitis.de/index.php

Trueness to type confirmed by ampelography

confirmation by ampelography **confirmed**

Trueness to type confirmed by SSR-markers

confirmation by SSR-markers **confirmed**

related bibliography (1)

authors	year	title	journal	citation
A.A.V.V.	2011	European Vitis database		http://www.eu-vitis.de/index.php

compared loci **9**

identical loci **9**

discrepancies n.a.

Standardized microsatellite profile

loci:	predefined loci (9)																	
SSR locus:	VVS2		VVMD5		VVMD7		VVMD27		VrZAG62		VrZAG79		VVMD25		VVMD28		VVMD32	
allele:	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2
size:	143	143	227	233	239	249	181	185	186	204	243	251	256	256	231	249	251	273

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other Locus info available online

Images

shootTipUs

shootTipLs

leafUs

leafLs

bunch

Ampelography

OIV	description	value		images
001	Young shoot: opening of the shoot tip	5	fully open	
003	Young Shoot: intensity of anthocyanin coloration on prostrate hairs of tip	1	none or very low	
004	Young Shoot: density of prostrate hairs on tip	5	medium	
006	Shoot: attitude (before tying)	3 / 5	semi-erect / horizontal	
007	Shoot: color of dorsal side of internodes	2 / 3	green and red / red	
008	Shoot: color of ventral side of internodes	1 / 2	green / green and red	
016	Shoot: number of consecutive tendrils	1	2 or less	
051	Young leaf: color of the upper side of blade (4 th leaf)	2 / 3	yellow / bronze	
053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	7 / 9	high / very high	
067	Mature leaf: shape of blade	2 / 3	wedge-shaped / pentagonal	
068	Mature leaf: number of lobes	3	five	
070	Mature leaf: area of anthocyanin coloration of main veins on upper side of blade	2 / 3	only at the petiolar point / up to the 1st bifurcation	
075	Mature leaf: blistering of upper side of blade	3	weak	
076	Mature leaf: shape of teeth	2	both sides straight	
079	Mature leaf: degree of opening / overlapping of petiole sinus	3	open	
080	Mature leaf: shape of base of petiole sinus	1	U-shaped	
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	5 / 7	medium / high	
087	Mature leaf: density of erect hairs on main veins on lower side of blade	5	medium	
151	Flower: sexual organs	3	fully developed stamens and fully developed gynoecium	
153	Inflorescence: number of inflorescences per shoot	2	1,1 to 2 inflorescences	
155	Shoot: fertility of basal buds (buds 1-3)	5	medium (1,1-1,3)	
202	Bunch: length (peduncle excluded)	5 / 7	medium / long	
204	Bunch: density	5 / 7	medium / dense	
206	Bunch: length of peduncle of primary bunch	5	medium	
208	Bunch: shape	1 / 2	cylindrical / conical	
209	Bunch: number of wings of the primary bunch	2	1 - 2 wings	
220	Berry: length	5	medium	
221	Berry: width	3 / 5	narrow / medium	
223	Berry: shape	3	broad ellipsoid	
225	Berry: color of skin	5 / 6	dark red violet / blue black	
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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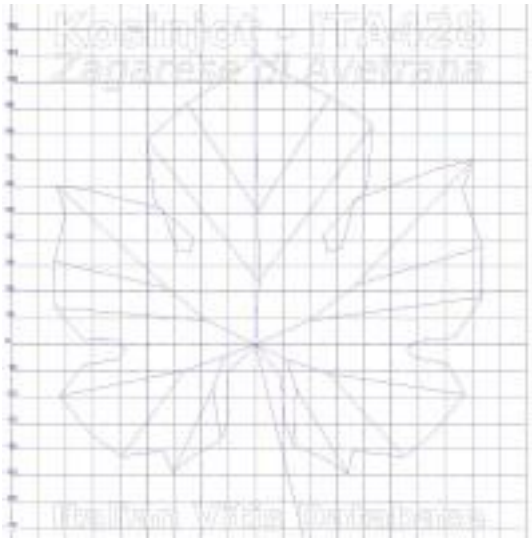
Ampelometry



ampelometric leaf

OIV

OIV	PDF	description	value	
601	PDF	Mature leaf: length of vein N1	3	short (105 mm)
602	PDF	Mature leaf: length of vein N2	5	medium (105 mm)
603	PDF	Mature leaf: length of vein N3	5	medium (75 mm)
604	PDF	Mature leaf: length of vein N4	9	very long (55 mm and over)
605	PDF	Mature leaf: length petiole sinus to upper lateral leaf sinus	3	short (50 mm)
606	PDF	Mature leaf: length petiole sinus to lower lateral leaf sinus	3	short (45 mm)
607	PDF	Mature leaf: angle between N1 and N2 measured at the first ramification	7	large (56°-70°)
608	PDF	Mature leaf: angle between N2 and N3 measured at the first ramification	5	medium (46°-55°)
609	PDF	Mature leaf: angle between N3 and N41) measured at the first ramification	5	medium (46°-55°)
610	PDF	Mature leaf: angle between N3 and the tangent between petiole point	7	large (56°-70°)
612	PDF	Mature leaf: length of tooth N2	3	short (10 mm)
613	PDF	Mature leaf: width of tooth N2	5	medium (14 mm)
614	PDF	Mature leaf: length of tooth N4	3	short (10 mm)
615	PDF	Mature leaf: width of tooth N4	5	medium (14 mm)
616	PDF	Mature leaf: number of teeth between the tooth tip of N2 and the tooth tip of the first secondary vein of N2 including the limits	3	small (about 4)

Superampelo

distances		
descriptor	value	standard deviation
Base of the tooth located at the end of N4'	11.330	2.795
Base of the tooth located at the end of N2	12.160	2.928
Distance from the petiole sinus to the lower left sinus	48.140	5.264
Base of the tooth located at the end of N4	13.080	3.752
Base of the tooth located at the end of N2'	12.290	1.942
Distance from the petiole sinus to the upper right sinus	44.360	5.923
Vein N3', length from the petiole sinus to vein N4'	12.300	1.629
Distance from the petiole sinus to the lower right sinus	56.120	7.701
Distance from the petiole sinus to the upper left sinus	42.540	6.750
Length of vein N5	22.170	3.803
Length of vein N4'	48.960	6.606
Vein N3, length from the petiole sinus to vein N4	13.140	0.975
Length of vein N5'	20.560	6.598
Distance between petiole point and end of vein N4	60.520	5.688
Leaf length	165.840	6.839
Length of vein N4	49.510	5.671
Distance between petiole point and end of vein N4'	58.050	6.374
Petiole length	80.910	12.704
Length of vein N1	111.910	6.254
Leaf width	159.760	8.629
Leaf length Including the petiole	192.800	14.259
Distance between the ends of veins N4 and N4'	65.390	10.229
Width of petiole sinus / Distance between points SP and SP'	-21.390	5.149
Distance between the ends of veins N2 and N2'	154.480	15.313
Distance between the ends of veins N3 and N3'	150.800	10.260
Length of vein N3	80.350	6.897
Length of vein N3'	75.680	5.230
Length of vein N2	106.960	8.304
Length of vein N2'	95.772	6.626
Distance between the tooth tip of N2 and the tooth tip of the first ramification (secondary vein) of N2	58.480	10.620
Distance between the tooth tip of N2' and the tooth tip of the first ramification (secondary vein) of N2'	57.380	12.210
Height of the tooth on the end of N4	9.490	2.622
Height of the tooth on the end of N4'	7.790	2.131
Height of the tooth on the end of N2	10.790	3.011
Altezza del dente posto all'estremità di N2'	9.600	2.265

angles		
descriptor	value	standard deviation
Sum of the angles alpha' + beta'	113.590	5.631
Sum of the angles alpha + beta	113.090	7.422
Sum of the angles alpha' + beta' + gamma'	163.830	6.553
Sum of the angles alpha + beta + gamma	167.480	7.234
Angle between N1 and N2 measured at the first bifurcation	62.480	4.111
Angle between N1 and N2' measured at the first bifurcation	65.890	4.596
Angle between N3 and N4 at the first fork of N3	54.370	4.879
Angle between N3' and N4'	50.240	6.352
Angle between N2 and N3 measured at the first bifurcation	50.600	4.413
Angle between N2 and N3' measured at the first bifurcation	47.690	5.788
Angle between N2 and N3 measured at the ends of the veins	55.200	7.743
Angle between N2' and N3' measured at the ends of the veins	54.660	7.929
Angle between N1 and N2 measured at the ends of the veins	48.650	4.559
Angle between N1' and N2' measured at the ends of the veins	50.400	6.470
Angle of opening of the petiole sinus measured at SP and at SP'	40.170	11.059
Angle between D and D' with the center in N1	106.770	5.316
Angle between N3 and N4 measured at the ends of the veins	41.160	5.583
Angle between N3' and N4' measured at the ends of the veins	43.130	4.397
Angle between N2 and N3 measured at the petiole point and between N2 and N3 tooth tip	55.970	6.451
Angle between N2 and N3 measured at the petiole point and between N2' and N3' tooth tip	55.560	9.516
Angle between S and S' with the center in N1	36.640	5.484
Angle between I and I' with the center in N1	48.970	3.009

rations		
descriptor	value	standard deviation
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'	0.022	0.003
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	0.003
Ratio between the height and the base of the teeth of the left side	1.003	0.178
Ratio between the height and the base of the teeth of the right side	0.886	0.149
Ratio between the length of the vein N4' and the length of the vein N1	0.439	0.067
Ratio between the length of the vein N4 and the length of the vein N1	0.443	0.053
Ratio between the length of the vein N5' and the length of the vein N1	0.184	0.060
Ratio between the length of the vein N5 and the length of the vein N1	0.198	0.031
Ratio between the length of the vein N2' and the length of the vein N1	0.857	0.050
Ratio between the length of the vein N2 and the length of the vein N1	0.957	0.071
Ratio between the length of the vein N3' and the length of the vein N1	0.678	0.063
Ratio between the length of the vein N3 and the length of the vein N1	0.718	0.049
Ratio between the distance from the sinus and the length of the vein N2'	0.444	0.067
Ratio between the distance from the sinus and the length of the vein N2	0.416	0.056
Ratio between the distance from the petiole sinus to the lower left sinus OI' and the length of vein N3'	0.640	0.089
Ratio between the distance from the petiole sinus to the lower right sinus OI and the length of vein N3	0.699	0.080
Multiplication between length and width of the leaf	26535.290	2296.642
Ratio between the length of the petiole OP and the length of the vein N1	0.725	0.121
Ratio between length and width of the leaf	1.039	0.036
Media of the base of the teeth of the right side	9.802	1.507
Media height of the teeth of the right side	8.547	1.026
Media of the base of the teeth of the left side	8.791	1.145
Media height of the teeth of the left side	8.656	0.696
Ratio between the height and the base of the tooth at the end of the vein N2'	0.791	0.192
Ratio between the height and the base of the tooth at the end of the vein N2	0.900	0.239
Ratio between the height and the base of the tooth at the end of the vein N4'	0.694	0.134
Ratio between the height and the base of the tooth at the end of the vein N4	0.753	0.241

Phenology & production

OIV	description	value	
301	Time of bud burst	5	medium
303	Time of beginning of berry ripening (veraison)	5	medium
351	Vigor of shoot growth	5	medium (70-80 g)
502	Bunch: weight of a single bunch	3	low (250-350 g)
503	Berry: single berry weight	3	low (2,5-3,5 g)
504	Yield per m2	5	medium (1,4-1,6 kg)
505	Sugar content of must	3	low (14,2-15,8)
506	Total acid content of must	5	medium (8,2-9,8)
508	must specific pH	3 / 5	low (3,0-3,1) / medium (3,2-3,3)

Agronomic

plant spacing & training system	value	standard deviation	number of years
Training system			
Pruning System			
Distance between rows (m)	2.200		
Distance on the row (m)	0.800		

vigor	value	standard deviation	number of years
Number of shoots/canes per meter of row (number/m)	12.500		2
Cane’s weight (g)	100.000		2
Pruning wood’s weight per vine (kg)	1.000		2
Pruning wood’s weight per vine meter of row (kg)	1.250		2
Number of shoots/canes per vine (number/vine)	10.000		2

fertility	value	standard deviation	number of years
Number of bunch per shoots at flowering (number/shoot)	1.600		2
Fertility of basal buds (bunch/bud)	1.300		2

production's quantitative characteristics	value	standard deviation	number of years
Number of bunches per vine (number/vine)	16.000		2
Number of bunches per meter of row (number/m)	20.000		2
Bunch’s weight (g)	224.000		2
Weight of 100 berries (g)	151.000		2
Grape production per vine (kg/ceppo)	3.800		2
Berry diameter (average of 25 berries) - width (mm)	15.400		2
Grape production per meter of row (kg/m)	4.750		2
Berry diameter (average of 25 berries) - height (mm)	16.000		2
Grape production per hectare (t/ha)	21.590		2

production's qualitative characteristics	value	standard deviation	number of years
Sugar content of must (°Brix)	16.000		2
Titratable acidity of must (g/l)	7.990		2
pH (pH)	3.100		2
Skin total polyphenols (g/kg)	0.840		2
Seeds total polyphenols (g/kg)	0.700		2
Skin total anthocyanins (g/kg)	0.178		2

Berry polyphenols

no polyphenolic descriptors available for Zagarese di Avetrana

Berry aroma

no aroma descriptors available for Zagarese di Avetrana

Other descr.

no other descriptors available for Zagarese di Avetrana

Accessions of the same variety (1)

- Zagarese di Avetrana - Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia