The Italian Winegrape varieties

Vittorino Novello

University of Turin Italy





OBJECTIVE: TO ENPHASIZE THE VARIETAL CHARACTERISTIC OF WINES



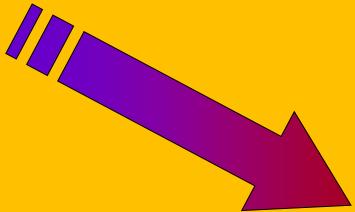
WINE QUALITY

Uncontrollable factors

TERRITORY

CLIMATE

VARIETAL CHARACTERISTICS



Controllable factors

- GRAPE QUALITY
- **WINEMAKING TECNIQUES**
- WINE AGING TECNIQUES



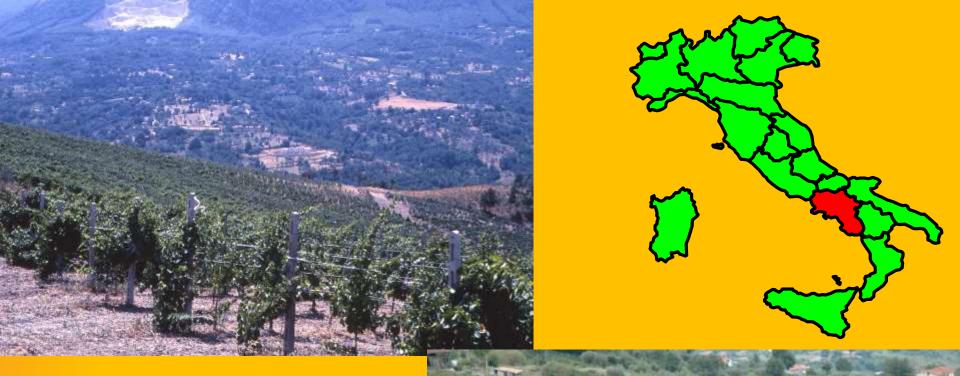














Irpinia









Apulia



Apulia

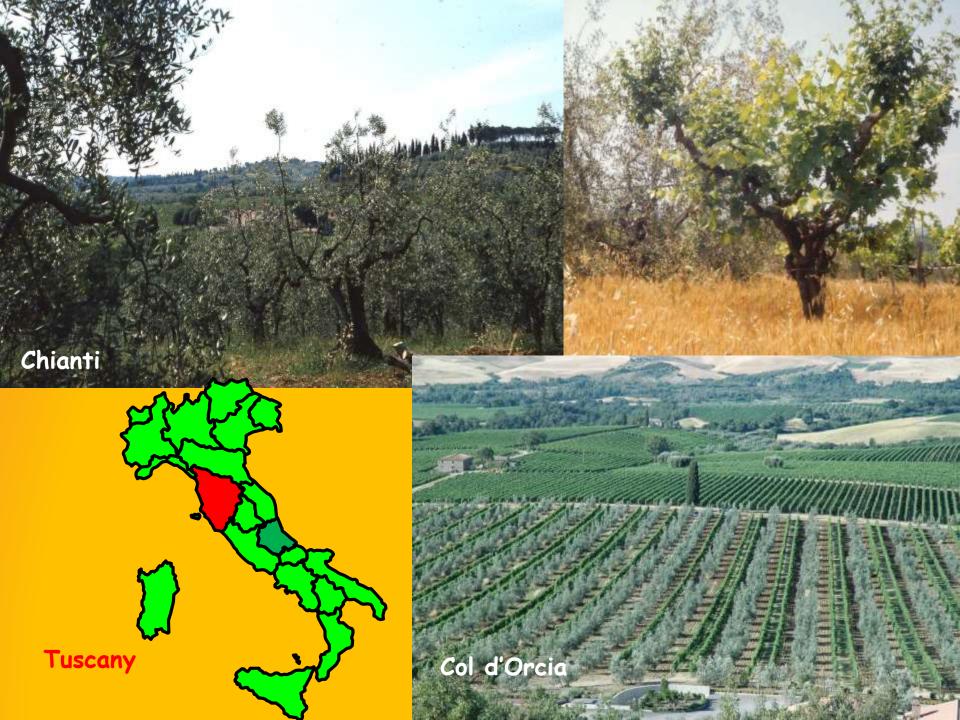






















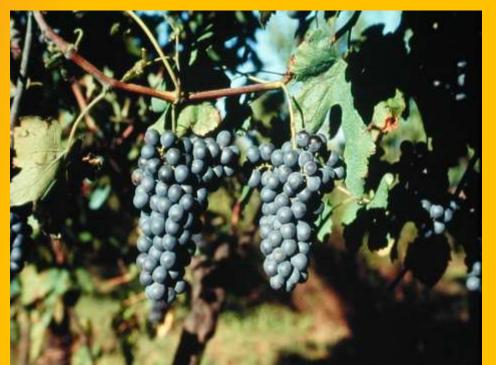
Piedmont

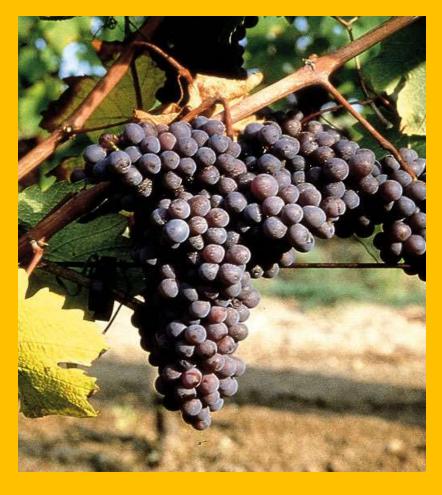












IMPORTANT
TO KNOW THE
RAW MATERIAL







Barbera



BARBERA



Origin: Monferrato

Budbreaking: medium-precox

Bearing: semi-erect, medium leaf

Vigor: medium

Training: plastic, pruning not too much rich, aeration

Cluster: medium-big (250-300 g), tendentially compact, cylinder-

cone

Maturation: medium

Berry: medium

Skin: thin but consistent, highly waxy

Pulp: juicy, sweet, acidic

Sensibility to deseases: ~ powder mildiew and gray mildew

Productivity: high and constant

Wine: severe, acidic, not tannic, fine, dry or sparkling



Prefers clay soils less fertil, deep, hilly, good exposition (in the North)

Sensible to frezing and B-deficiency (expecially on light soils)







Nebbiolo

The 3 morfological types of Nebbiolo







Lampia





Michet





Rosé

Same genotype

(Palla Chiavannaga Channa Diagtor

(=Bolla, Chiavennasca, Spanna, Picotendro, ecc.)

Distinct genotype (Chiavennaschino valtellinese)

Where is grown Nebbiolo?

Italy (ha)

World (ha)

Valtellina	900
Valle d'Aosta	26
Piemonte (60% in prov. CN)	5.300
Sardegna *	52
Totale	6.300

	0,000
* It's Dolcetto (areas of Luddel Limbara IGT)	ras and Colli

	· · · · · · · · · · · · · · · · · · ·
USA	160
Messico	100
Argentina	206
Cile	9
Australia	120
Nuova Zel.	10
Sud Africa	15
Totale	627

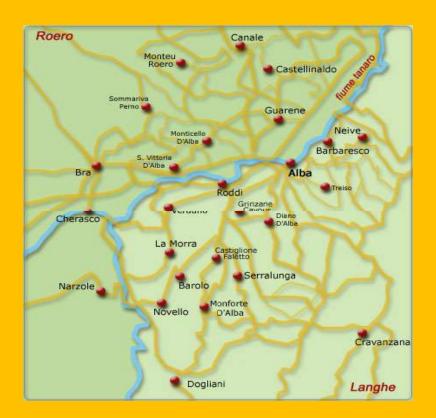
Arneis

Growing areas:

In Piedmont: Roero & Langhe

Authorized in Sardinia

Outside: California, Australia





Synonyms: Bianchetto or Bianchetta (di Alba) & Nebbiolo bianco.



Growing characteristics

- breaking medium-praecox
- maturation 2nd half of September
- vigorous
- medium & compact cluster
- medium yield
- dry soils
- sensible to mildew
- less sensible to bunch rot

Enological characteristics

- good personality & finesse
- peculiar smell
 - fruit sensations
- reach body, low acidity, tartaric
- good for passito wine
- no good for sparkling

Clones: CVT CN 15, 19, 32



Vermentino/Pigato/Favorita

Origin: unknown

Growing area:

France (2.500 ha): Corsica, Languedoc-Roussillon, Provence Italy (3.500 ha): Sardinia, Liguria, Tuscany, Piedmont

Wine and table grape





Base of all the white wines in Corse (with Trebbiano)

Synonims

- in France: Verlantin, Rolle (Midi), Malvoisie (Corsica)
- in Italy: Favorita, Furmentin (Piemonte), Pigato (Liguria)

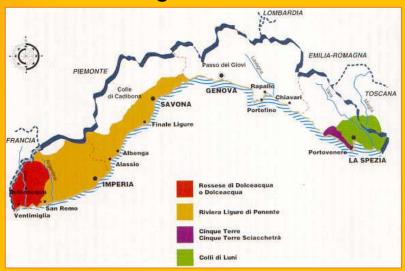
N.B.: The Rollo it's not Vermentino

The Black (nero) Vermentino it's not a mutation

Grown characteristics

- maturation middle
- vigorous
- fragile shoots
- high productivity (also on laterals)
- good cane pruning
- dry soils, less fertile
- sensible to powder mildew, to rot

Riviera Ligure Ponente



Vermentino di Gallura



Erbaluce

Origin: Piedmont, Canavese

Growing area

 Turin Province (Caluso, Canavese bianco); Novara province (Coste del Sesia, Colline Novaresi)

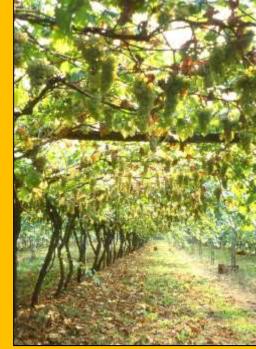
• 160 ha DOCG Caluso

Synonims: Albalus, Albaluce, Greco

(Novara)

Ampelographic confusions







Cultural environment

- sunny areas hilly and flat
- soils generally acidic (Piedmont North)

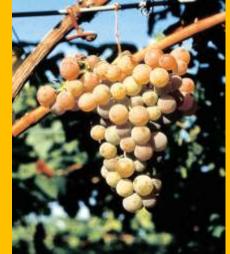
Grown characteristics

- big vigor (pergola trellis)
- low fertility (colure)
- maturation: last 10 days of September
- compact cluster
- low sensibility to gray rot

Enological characteristics

- high acidity
 - sparkling wines
- hard skin
 - passito
 - late harvest





New cultivars for California?



Albarossa (Chatus [syn. Nebbiolo di Dronero] x Barbera)



Growing characteristics

- breaking medium-praecox (1st half of April)
- maturation medium-late (1st third of October)
- medium vigorous
- cluster: medium or medium-small & compact
- constant and high yield
- needs good exposition on hillsides
- more sensible to powder than downy mildew

Wines

- High alcohol
- High TA
- High phenols
 - More anthocyanins
 - Less tannins



MONTEPULCIANO



Montepulciano

SYNONYM: Sangiovese, Brunello, Prugnolo, Morellone, Cordisco, Malvasia Nera, Sangioveto



GROWING AREA: Abruzzo, Marche, Lazio, Apulia



LEAF: medium-big, pentagonal, lyre-shaped petiole sinus, dark-green color upper side, greyish-green color lower side

SHOOT: medium-good vigor; opened tip; white-green apical leaves

CLUSTER: medium, conical-cylindrical or cylindrical- conical often with wings

BERRY: medium, ovate

BUDBREAK: mid April

FLOWERING: first half of June

RIPENING: mid October



WINE CHARACTERISTICS:

- high alcohol, good acidity and phenolic content
- wide range of styles: rosè, 'novello', light-bodied red wine, suitable for ageing
- the best wine: full-bodied, red, with a velvety high flavored and slightly tannic taste

OUTLOOK OF VARIETAL: increasing plantings



REGISTERED CLONES: R7, AP-MP1, AP-MP3

YIELD POTENTIAL: 10 - 15 t/ha

TRAINING SYSTEM:

- old vineyards: tendone system, spur or cane pruned
- new vineyards: vertical system, spur pruned



SYNONYM: Negro Amaro, Nero Leccese, Lacrima, Uva Cane

GROWING AREA: Southern Apulia



LEAF: big, pentagonal, lyre-shaped petiole sinus, green color upper side, pale-green color lower side

SHOOT: vigorous; opened tip; pale-green apical leaves



CLUSTER: medium, conical-cylindrical

BERRY: medium, obovate

BUDBREAK: end of March - beginning of April

FLOWERING: end of May

RIPENING: beginning of October

WINE CHARACTERISTICS:

- high alcohol, fairly good acidity, low pH, high phenolic content
- wide range of styles: dry rosè, medium-bodied dry wine suitable for ageing
- the best wine: medium-full bodied, red, with intense bouquet of spices, velvety and smooth taste



PRODUCTION AREAS OF DISTINCTION:

DOC: Alezio, Brindisi, Copertino, Leverano,

Lizzano, Matino, Nardò



ROOTSTOCK USED: 1103 P, 157-11, 140 Ru

PREFERRED VINEYARD SITES:

Soil: 'terra rossa', brown calcareous

Climate: warm-arid, heat sum. 2230 °C DD, a.r. 720 mm

OUTLOOK OF VARIETAL: stable plantings

REGISTERED CLONE:VCR10

YIELD POTENTIAL: 12 - 13 t/ha

TRAINING SYSTEM:

- old vineyards: head system, spur pruned
- new vineyards: vertical system, spur pruned





NERO DI TROIA



Growing characteristics

- breaking medium-praecox (1st half of April)
- maturation medium-late (1st third of October)
- good vigor
- cluster: medium pyramidal & compact (15-20 cm)
- medium yield
- needs good exposition on hillsides
- more sensible to downy than powder mildew
- sensible to 'favonio' (warm wind from South)

Wines

- High alcohol
- medium TA
- High phenols
 - anthocyanins
 - Less tannins



SICILIAN VARIETIES



INZOLIA

It's one of the oldest grapes that lives in Sicily

Cited by Plinium with the name of Irzolia, commonly called "Inzolia vranca" to distinguish it from "Inzolia nigra", it's also described by Cupani (1696) and by Sestini (1760).

- Widely diffused in the entire island, it participates to the construction of many white wines.
- In the past was used as table grapes

INZOLIA or Ansonica

VIGOR: high

HABITUS: downwards shoot

PRUNING SYSTEM: Guyot

PROPAGATION: good with the most important rootstocks

BUNCH WEIGHT: high (200–400g)

BERRY WEIGHT: high (2.5-3.0 g)

PRODUCTIVITY: high

DISEASE: sensitive to powdery mildew and downy mildew

BUD BURST: medium-late (beginning-mid of April)

RIPENING: medium (mid of September)

 MUST CHARACTERISTICS: low acidity, high pH, oxidation problem due to catechins, norisoprenoid aroma (beta-damascenone).

CULTIVATION AREA: Western Sicily

NUMBER OF CLONES: 5





A. Pisciotta

INZOLIA IS OFTEN BLENDED WITH OTHER VARIETIES BECAUSE OF ITS APPEALING PERFUMES, ELEGANCE AND A GOLDEN YELLOW COLOR



ZIBIBBO

Belongs to the large group of 'Muscat' called by the ancients "Vitis Apianae" because sweets and preferred by bees

Presumably cultivated in Sicily since the time of the Phoenicians, this grape was used primarily as a table grape and raisins

The grape is grown mostly in the province of Trapani and in particular the island of Pantelleria





ZIBIBBO or Muscat of Alexandria

- VIGOR: medium
- HABITUS: upright shoot
- PRUNING SYSTEM: Guyot and spur
- PROPAGATION: good with the common rootstocks (very good 775P)
- BUNCH WEIGHT: high (250–500 g)
- BERRY WEIGHT: very high (5.5 g)
- PRODUCTIVITY: medium and rather irregular (also in the lateral)
- DISEASE: slightly resistant to downy mildew and powdery mildew
- BUD BURST: early-medium (mid of March)
- RIPENING: early (mid of August-beginning of September)
- MUST CHARACTERISTICS: terpenic aromatic compounds (linalol)
- CULTIVATION AREA: Pantelleria island and Western Sicily
- NUMBER OF CLONES: no clones











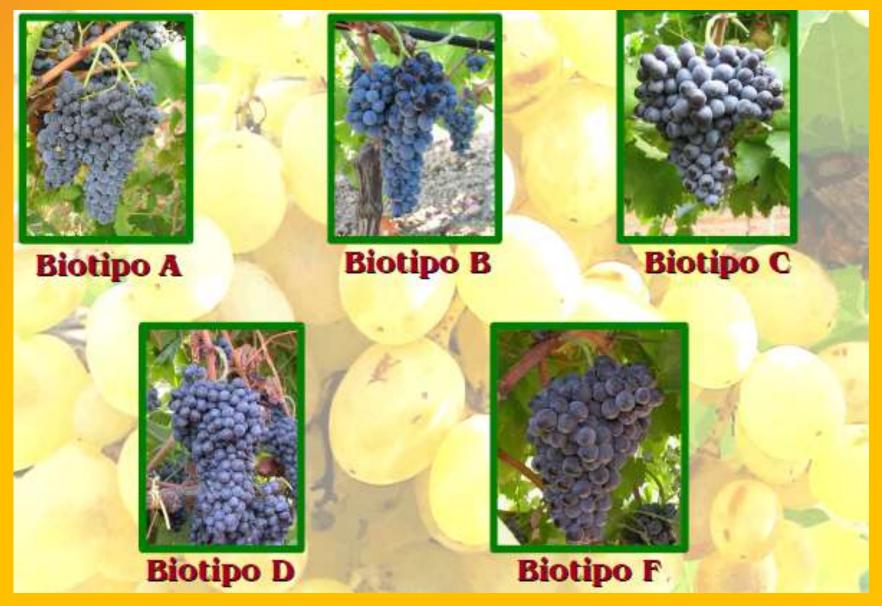


NERO D'AVOLA

- It's the king of the Sicilian grapes and it's successfully cultivated all over the island, where it founds its best qualitative expression.

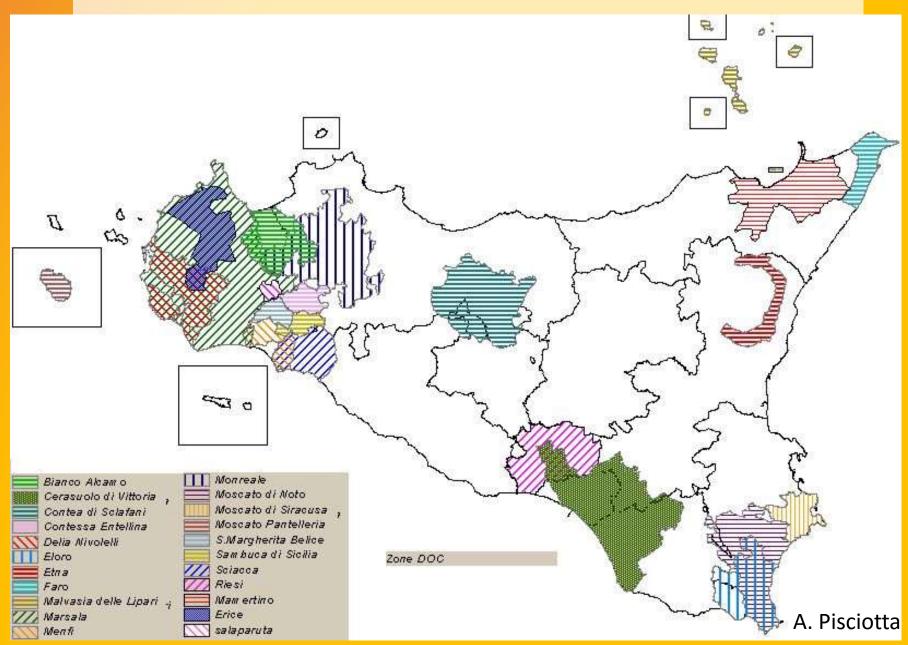
- Nominate by Cupani (1696), the origin still uncertain.
- -The name Calabrese probably comes from two ancient Sicilian words "Calea"-"Aulisi", grape of Avola.

VARIABILITY



A. Pisciotta

Nero d'Avola location



SYNONYM: Calabrese, Calabrese d'Avola Calabrese di Vittoria, Calabrese Dolce



GROWING AREA: South-Est and West Sicily



LEAF: big, circular, lyre-shaped petiole sinus, dark-green color upper side, pale-green color lower side

SHOOT: vigorous; opened tip; light-pink, bronze apical leaves

CLUSTER: medium, conical, one wing

BERRY: medium, elliptic or obovate

BUDBREAK: mid April

FLOWERING: beginning-middle May

RIPENING: first half September



WINE CHARACTERISTICS:

- high alcohol, good acidity, high phenolic content
- wide range of styles: rosè, full-bodied wine suitable for ageing
- the best wine: full-bodied, red, with intense bouquet of spices, hazelnut, raspberry and other small fruits, velvety and smooth taste.
- the wines achieve the best with ageing

PRODUCTION AREAS OF DISTINCTION: all the Sicilian DOC's, but for Etna

ROOTSTOCK USED: 1103 P, 140 Ru

PREFERRED VINEYARD SITES:

Soils: calcareous

<u>Climate</u>: warm-arid

- South-Est Sicily: heat sum. 2250 °C DD, a.r. 600 mm

- West Sicily: heat sum. 2350 °C DD, a.r. 480 mm

OUTLOOK OF VARIETAL: increasing plantings



YIELD POTENTIAL: 8 - 10 t/ha

TRAINING SYSTEM:

- South-Est Sicily: head system, spur pruned
- West Sicily: vertical system, spur pruned





http://www.vitisdb.it/