

Grapevine Family, Genus, Species, and Varieties

- **Monocotyledon** – flowering plants with seeds that contain only one embryonic leaf. This plays a part in the structure of the germinated plant. The following are features of Monocotyledons: **Leaf structure** has parallel veins, **Root systems** are made up of fibrous roots, and **Stems** are soft.
- **Dicotyledons** – or Dicots. Flowering plants with seeds that contain two embryonic leaves. This plays a part in the structure of the germinated plant. The following are features of dichotomous plants: **Leaf structure** has a network of veins, **Root systems** are made up of taproots, and **Stems** are hard. The grapevine used for the production of wine belongs to the **Vitaceae Family**.
- The scientific classification of the grapevine falls under the **Kingdom** – Plantae (plants), **Division** – Magnoliophyta (Flowering plants), **Class** – Magnoliopsida (*Dicotyledons or Dicots*), **Order** – Vitales, **Family** – Vitaceae
- Vitaceae family contains plants that are economically important in the production of table grapes, raisins, and grapes for the production of wine.
- Within the **Vitaceae** family there are 13 genera or **genus**. They are the following:

Acareosperma

Ampelocissus

Ampelopsis

Cayratia

Cissus – *largest genus contains 350 species.*

Clematicissus

Cyphostemma

Nothocissus

Parthernocissus

Pterocissus

Rhoicissus

Tetrastigma

Vitis

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- The Genus **Vitis** contains 60 different **Species** (which are written in *Italic* and never capitalized).
- It is not necessary to learn all 60 species of *Vitis*. However, there is an increasing importance of their rootstocks, because of their resistance to pest & diseases (phylloxera), and their ability to be grafted onto the scions of *V. vinifera* varieties. Bolded items are the most commonly used.

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| 1) <i>acerifolia</i> | 31) <i>lecoides</i> |
| 2) <i>aestivalis</i> – Summer grape | 32) <i>lincecumii</i> |
| 3) <i>amurensis</i> | 33) <i>monticola</i> |
| 4) <i>andersonii</i> | 34) <i>mustangensis</i> |
| 5) <i>arizonica</i> | 35) <i>nesbittiana</i> |
| 6) <i>armata</i> | 36) <i>novae-angliae</i> |
| 7) <i>barbata</i> | 37) <i>novogranatensis</i> |
| 8) <i>berlandieri</i> | 38) <i>pallida</i> |
| 9) <i>betulifolia</i> | 39) <i>palmate</i> |
| 10) <i>biformis</i> | 40) <i>peninsularis</i> |
| 11) <i>blancoi</i> | 41) <i>piasezkii</i> |
| 12) <i>bloodworthiana</i> | 42) <i>popenoei</i> |
| 13) <i>bourgaeana</i> | 43) <i>pseudoreticulata</i> |
| 14) <i>bourquina</i> | 44) <i>quadrangularis</i> |
| 15) <i>californica</i> | 45) <i>quinguangularis</i> |
| 16) <i>champinii</i> | 46) <i>riparia</i> – Riverbank grape |
| 17) <i>cinerea</i> | 47) <i>romanetii</i> |
| 18) <i>coignetiae</i> | 48) <i>rotundifolia</i> – Fox grape |
| 19) <i>davidii</i> | 49) <i>rufotomentosa</i> |
| 20) <i>doaniana</i> | 50) <i>rupestris</i> |
| 21) <i>ficifolia</i> | 51) <i>serjanaefolia</i> |
| 22) <i>flexuosa</i> | 52) <i>shuttleworthii</i> |
| 23) <i>girdiana</i> | 53) <i>slavinii</i> |
| 24) <i>geniculata</i> | 54) <i>sylvestris</i> |
| 25) <i>heyneana</i> | 55) <i>thunbergii</i> |
| 26) <i>jacquemontii</i> | 56) <i>tiliifolia</i> |
| 27) <i>jaegeriana</i> | 57) <i>tsoii</i> |
| 28) <i>kelungensis</i> | 58) <i>vinifera</i> – European Grapevine |
| 29) <i>labrusca</i> – Concord grape | 59) <i>vulpina</i> |
| 30) <i>labruscana</i> | 60) <i>yeshanensis</i> |

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“Vitis vinifera is the only species that gives rise to wine of a flavor that is acceptable around the world,” Bird, David MW Understanding Wine Technology The Science of Wine Explained. DBQA Publishing, Great Britain, 2007.

- Vitis *vinifera* varieties are more susceptible to disease than the varieties from other Vitis species so grafting rootstocks to *vinifera* scions is very important in preserving the production of *vinifera* varieties. Phylloxera resistance is the most important aspect of grafting rootstocks
- Within each variety there may be clones. **Clones** - A naturally occurring genetic subtype of a particular variety that when propagated will have features that are identical to the parent vine.
- Vitis *vinifera* contains over one thousand different varieties, some of which are crossings. Here are some of the more important varieties and their synonyms:

Note: ***Do not look for guidance in words when it comes to flavor profiles of a wine, the best research is found in the glass.***

Agiorgitiko – Black grape. Second most widely planted black grape in Greece. Produces fruity spicy wines, commonly from the carbonic maceration. Well known as a component of the table wine Katoi when blended with Cabernet Sauvignon.

Origin: Greece

Synonyms: Aghiorghitico, Aghiorghitiko, Nemeas Mavro, Nemeas Mavroudi, and St. George.

Aglianico – Black grape. Most well known as the main component in Taurasi DOCG in Campania and Aglianico del Vulture in Basilicata. Firm, rustic, tannic and smoke driven grape with aromas and flavors of spicy black fruits.

Origin: Italy.

Synonyms: Aglianichello, Aglianico di Castellaneta, Aglianico Femminile, Aglianico Mascolino, Aglianico Zerpuloso, Aglianicone, Aglianicuccia, Agliano, Agliatica, Ellanico, Ellenico, Fiano Rosso, Gagliano, Gnanica, Granica, Prie blanc, Uva Catellaneta, Uva dei Cani, Uva near.

Five clones: Aglianico FPS 01-05.

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Airén – White grape. Most planted grape in Spain. Non-aromatic, neutral variety used mainly for blending and the production of brandy.

Origin: Spain.

Synonyms: Aiden, Forcallada, Forcallat, Forcallat blanca, Forcallat blanco, Forcayat, Forcellat blanca, Forcellat blanca, Laeren del Ray, Lairén, Layren, Manchega, Mantuo Laeren, Valdepeñas, Valdepeñera blanca, and Valdepeñero.

One clone: Airén FPS 02.

Albariño - White grape. Found in mainly in Spain (Rias Baixas & Galicia) and Portugal (Vinho Verde). High in acidity with crisp flavors of minerals and citrus.

Origin: Spain.

Synonyms: Alvarinho, Albarina, Alvarin Blanco, Alvarinha, Azal Blanco, Galego, and Galeguinho.

Four clones: Albariño FPS 01-02, Alvarinho PLANSEL 639 and Alvarinho NWGFS 01.

Abillo Mayor – White grape. Found in Spain in the DO's of Toro and Rueda in the region of Castilla y Leon. Aromatic and dry with flavors of tropical fruits. Research suggests that this is the same as the Argentina Torrontes, but this is not 100% as of yet.

Origin: Spain.

Synonyms: Torrontes, Abillo Erguido, Aris, Blanca del País, Monastrell blanco, Morrastell blanco, Tarrantés, Terrantés, Torontél, Torrantés, Turrondés, Turrontés, Turruntés, and Turruntés de la Rioja.

One Clone: Abillo Mayor FPS 01.

Alicante Bouschet - Black variety. One of the few black grapes with black juice. Cross between Grenache and Petit Bouschet. Tannic driven red with flavors of red currant, leather and spice.

Origin: France.

Synonyms: Alicante Femminello, Tinta Fina, Alicant de Pays, Alicante, Alicante Bouschet 2, Alicante Henri Bouschet, Alicante Nero, Alicante Noir, Alicante Tinto, Alicantina, Alikant Bushe, Aragonais, Aragones, Arrenaou, Baga, Bakir Uezuemue, Blasco, Carignan Jaune, Copper Grape, Garnacha Tintorera, Lhadoner, Moraton, Mouraton, Murviedro, Pe de Perdiz, Pe de Pombo, Petit Bouschet, Redondal, Rivesaltes, Rivos Altos, Roussillon, Rouvaillard, Sumo Tinto, Tinta Francesca, Tinto, Tintorera, Tinturao, and Uva di Spagna.

Two clones: Alicante Bouschet FPS 01-02.

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Aligote – White grape. At home in Cote Chalonnaise, in the appellation of Bouzeron, in southern Burgundy where it produces wines with nutty citrus and stone fruit flavors.

Origin: France.

Synonyms: Aligotay, Alligotay, Blanc de Troyes, Carcairone blanc, Carcarone, Carchierone, Chaudenet, Chaudenet gras, Giboudot blanc, Griset blanc, Mukhranuli, Pistone, Plant de Trois, Plant de Trois Raisins, Plant gris, Troyen blanc, and Vert blanc.

Two clones: Aligote FPS 01 & Aligoté ENTAV-INRA 651.

Alvarinho – White grape. See Albariño.

Aragonez – Black grape. See Tempranillo.

Arinarnoa – Black grape. Cross between Merlot and Petit Verdot.

Origin: France.

One clone: Arinarnoa FPS 01.

Arneis – White Grape. Commonly found in the Piedmont region of Italy in the DOCs of Langhe and Roero. Produces refreshing nutty and herbaceous wines.

Origin: Italy.

Synonyms: Barolo bianco, Bianchetta di Alba, Bianchetto Albese, and White Barolo.

Three Clones: Arneis APS 01-03.

Auxerrois – White grape. Commonly found in Alsace, France where it's blended with Pinot Gris to produce dry crisp wines. A clone of Pinot Noir.

Origin: France.

Synonyms: Auxera, Auxerrois de Laquenexy, Auxerrois gris, Auzerrois blanc, Blanc de Kienzheim, Ericey de la Montee, Okseroa, and Pinot Auxerrois.

Two clones: Auxerrois FPS 01-02.

Barbera – Black grape. Commonly found in the Piedmont region of Italy. Produces low acid fruity reds with flavors of black cherry, raspberries, and plum.

Origin: Italy.

Synonyms: Barbera Amaro, Barber a Raspo Rosso, Barbera a Peduncolo Rosso, Barbera a Peduncolo verde, Barbera a Raspo verde, Barbera Crna, Barbera d'Asti, Barbera dolce, Barbera fina, Barbera forte, Barbera grossa, Barbera Mercantile, Barbera Monferrato, Barbera nera, Barbera Nostrana, Barbera riccia, Barbera Rissa, Barbera rosa, Barbera vera, Barberone, Besagno, Cosses Barbusen, Gaietto, Lombardesca, and Ughetta.

Nine clones: Barbera FPS 01-08 and Barbera NWGFS 06.

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Bonardo – Black grape. Commonly found in Italy and Argentina. Thick skinned tannic driven red wines with smoky mineral flavors and high acid.

Origin: Italy.

Synonyms: Balsamina, Bonarda dell' Astigiano, Bonarda del Monferrato, Bonarda di Cavaglia, Bonarda di Chieri, Bonarda di Gattinara, Bonarda nera, Bonarda Novarese, Bonarda Piemontese, and Driola.

One clone: Bonardo FPS 01.

Blauburgunder – Black grape. See Pinot Noir.

Blaufrankisch - Black grape. Produces light, fruity, dry wines with high acidity in the Burgenland region of Austria.

Origin: Austria

Synonyms: Blanc Doux, Blauer Lemberger, Blauer Limberger, Blue French, Burgund Kekfrankos, Burgund Mare, Cerne, Cerne Skalicke, Cerny Muskatel, Chirokolistny, Crna Moravka, Fernon, Fraenkische, Fraenkische Schwarz, Franconia, Frankovka, Frankovka Cerna, Frankovka Modra, Fruehschwarze, Game, Kekfrank, KekFrankos, Lampart, Lemberger, Maehrische, Modra Frankija, Modry Hyblink, Moravka, Moravske, Muskateller Schwarz, Nagyburgundi, Neskora, Neskore, Neskore Cierne, Noir de Franconie, Oporto, Orna Frankovka, Portugais Lerouse, Portugais Leroux, Portugais Rouge, Pozdni, Pozdni Skalicke Cerne, Schwarzgrobe, Serina, Shirokolistnyi, Sshwarze Fraenkische, Starosvetske, Starovetsky Hrozen, Szeleslevelue, Teltfuertue Kekfrankos, Teltfurtu Kekfrankos, and Velke Bugundske.

Four Clones: Limberger NWGFS 01, 02. FPS 01, 02.

Brachetto – Black grape. Produces light, fizzy and sweet wines in the Brachetto d'Acqui DOCG region of Piedmont, Italy.

Origin: Italy

Synonyms: Braquet

Cabernet Franc – Black grape. Major grape variety in Loire and Bordeaux, France. High in acidity with flavors of spicy red fruits, cedar and tobacco.

Origin: France.

Synonyms: Aceria, Acheria, Arrouya, Bordo, Bouchet, Bouchy, Breton, Burdeas tinto, Cabernet, Cabernet aunis, Cabernet Franco, Cabernet Frank, Capbreton rouge, Carmenet, Fer Servandou, Gamput, Gros Bouchet, Grosse Vidure, Hartling, Kaberne Fran, Messanges rouge, Morenoa, Noir Dur, Petit fer, Petit Viodure, Petite Vidure, Petite Vignedure, Plant Breton, Plant des Sables, Troughet noir, Veron, Veron Bouchy, and Veronais.

Seventeen Clones: Cabernet Franc FPS 01, 03, 04, 05, 07, 09, 11, 12, 13, 14, ENTAV-INRA® 214, 327, 394, 395,623 and NWGFS 01 & 04.

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Cabernet Sauvignon – Black grape. Cross between sauvignon blanc (white) and Cabernet Franc (black). One of the most important grapes in Bordeaux, California, Washington, Australia, Chile and Argentina. Can produce medium to full-bodied wines with a wide array of black fruit flavors.

Origin: France.

Synonyms: Burdeos Tintos, Bidure, Bordeaux, Bordo, Bouschet, Bouschet Sauvignon, Breton, Burdeos Tinto, Cabernet Petit, Carbonet, Carmenet, Castet, Kaberne Sovinjon, Lafet, Lafit, Marchoupet, Navarre, Petit Bouschet, Petit Cabernet, Petit Vidure, Petite Cabernet, Petite-Bouschet, Petite-Vidure, Sauvignon Rouge, Vaucluse, Veron, and Vidure.

Forty-nine clones: Cabernet Sauvignon FPS 02, 04, 05, 06, 07, 08, 10-15, 19-24, 29-31, 33-35, 37-40, 42-50. ENTAV-INRA ®15EV, 169, 170, 338, 412, 685. NWGFS 02, 04, 06, 07, 08 and 15.

Carignane – Black grape. Most widely planted grape in southern France. One of the 14 grape varieties allowed in Chateauneuf-du-Pape. Rich in tannins, acid and deep color.

Origin: Spain.

Synonyms: Mazuela, Cariñena, Carignan noir, Babonenc, Bois de Fer, Bois Dur, Bovale Grande di Spagna, Bove Duro, Cagnolaro Tinto, Carignan, Carignan Mouillan, Carignanne, Carignano, Catalan, Cencibel, Crignane, Crujillon, Crusillo, Girarde, Karinjan, Kek Carignan, Legno Duro, Manuelo Tinto, Marocain, Mollard, Monestel, Pinot Evara, Plant de Ledenon, Pokovec, Pokovez, Roussillon, Samsó, Samsó Crusillo, Shopatna Blau, Sopatna Blau, Tinto Mazuela, and Uva di Spagna.

Three clones: Carignane FPS 02, 03 and 10.

Carmenère – Black grape. Originally used as a blending grape in Bordeaux, now increasingly popular in Chile. Known for its black fruit flavors and herbaceous notes.

Origin: France.

Synonyms: Bouton blanc, Cabernet Carménère, Cabernella, Carbouet, Grand Carmenet, Grand Vidure, Grande Vidure, and Karmene.

Two clones: Carmenère FPS 02 & 03.

Charbono – Black grape. There are two varieties of Charbono: 1) California - which matches DNA from an extinct French grape from the Savoie region named Corbeau and 2) Italy - Charbono is a synonym for Dolcetto. Dark and inky wine with briary tannins.

Origin: France.

Synonyms: Corbeau.

Five clones: Charbono FPS 03-07.

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Chardonnay – White grape. Cross between Pinot Noir and Gouais blanc. Widely planted worldwide. Can manifest into several different styles depending on the climate and vision of the winemaker.

Origin: France.

Synonyms: Arboisier, Arnaison Blanc, Arnoison, Aubaine, Auvergnat Blanc, Auvernas Blanc, Auvernat Blanc, Auxerrois Blanc, Auxois Blanc, Bargeois Blanc, Beaunois, Blanc de Champagne, Breisgauer Sussling, Burgundi Feher, Chablis, Chardennet, Chatey Petit, Chaudenet, Claevner, Clevner Weiss, Epinette Blanche, Epinette de Champagne, Ericey Blanc, Feher Chardonnay, Feherburgundi, Feinburgunder, Gamay Blanc, Gelber Weissburgunder, Gentil Blanc, Grosse Bourgogne, Klawner, Klevanjka Biela, Lisant, Luisant, Luizannais, Luizant, Luzannois, Maconnais, Maurillon Blanc, Melon Blanc, Melon d'Arbois, Moreau Blanc, Morillon, Morillon Blanc, Moulon, Noirien Blanc, Petit Chatey, Petit Sainte-Marie, Pino Shardone, Pinot Blanc a Cramant, Pinot Blanc Chardonnay, Pinot Chardonnay, Plant de Tonnerre, Romere, Romeret, Rouci Bile, Rousseau, Rousot, Rulander Weiss, Sainte Marie Petite, Sardone, Shardone, Weiss Silber, Weissburgunder, and Weissedler.

Seventy-four clones: FPS 04-06, 08-18, 20-23, 25, 27, 28, 37-51, 54, 66, 67, 69-74, 79-86, 97-100, 102-108 ENTAV-INRA® 76, 96, 548. & NWGFS 06, 15, 37, 38, 69, 95CPJ, ESP352.

Chenin Blanc – White grape. Crisp flavors of green apple and pear with chalky mineral notes.

Origin: France.

Synonyms: Anjou, Blanc d'Aunis, Capbreton blanc, Confort, Coue Fort, Cruchinet, Cugnette, Feher Chenin, Franc blanc, Franche, Gout Fort, Luarskoe, Pineau, Pineau d' Anjou, Pineau de Briollay, Pineau de la Loire, Pineau de Savennieres, Pineau gros, Pineau gros de Vouvray, Pineau Nantais, Plant de Breze, Plant de Salces, Plant de Salles, Plant du Clair de Lune, Quefort, Rajoulin, Rouchalin, Rougelin, Steen, Stein, Tete de Crabe, Vaalblaar Stein, and Verdurant.

Six Clones: Chenin Blanc FPS 01-03, 05. ENTAV-INRA® 982. & NWGFS 04.

Cinsault - Black grape. One of the 14 grape varieties allowed in Chateauneuf-du-Pape. Spicy varietal with inky black fruit flavors.

Origin: France.

Synonyms: Black Malvoisie, Bourdales Kek, Budales, Calabre, Chainette, Cincout, Cinq-Sao, Cinquien, Cinsanet, Cinsault, Cubilier, Cubillier, Cuviller, Espagne, Espagnol, Froustignan, Grappu de la Dordogne, Hermitage, Imperial Blue, Malaga Kek, Malvoisie Black, Marocain, Maurange, Mavro Kara Melkii, Milhau, Morterille noire, Moustardier noir, Navarro, Negru de Sarichioi, Oeillade, Oeillade noire, Ottavianello, Ottaviano, Ottavinello, Pampous, Papadou, Passerille, Pedaire, Picardan noir, Piquepoul d' Uzes, Pis de Chevre, Plant d'Arles, Plant d'Arles Boudales, Plant de Broqui, Plant de Broquies, Poupe de Crabe, Pousee de Chevre rouge, Prunaley, Prunelas, Prunella, Prunellas noir, Salerne, Samson, Senso, Senu, Sinso, Strum, Takopulo, Ulliaou, and West's White Prolific.

Three Clones: Cinsault FPS 02-03 & NWGFS 02.

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Clairette Blanche – White grape. Important grape in the Provençal region of southern France. One of the grapes in the popular sweet sparkling wine Clairette de Die.

Origin: France.

Synonyms: Blanc Laffite, Blanquette, Blanquette de Limoux, Bon Afrara, Bou Afrara, Branquette, Cibade, Clairette, Clairette de Limoux, Clairette de Trans, Clairette Pointue, Clairette Pouchoudo, Clairette verte, Clarette, Clerette, Colle Musquette, Cotticour, Feher Clairette, Feher Kleret, Gaillard blanc, Granolata, Kleret, Kleret belyi, Muscade, Osianka, Ousianka, Ovsyaika, Ovsyanka, Petit blanc, Petit Kleret, Petite Clairette, Poupe de Gate, Pti Blan D'Obena, Seidentraube, Uva Gijona, Vivsianka

One clone: ENTAV-INRA® 208.

Cortese - White Grape. Main grape variety used to produce Gavi DOCG a crisp grassy wine with bright acid and minerality.

Origin: Italy.

Synonyms: Cortese dell' Astigliano, Fernanda bianca, Raverusto.

One clone: Cortese FPS 02.

Corvina Veronese - Black grape. Main component of Valpolicella and Amarone di Valpolicella. Responsible for the components of red cherry, strawberry and nuts.

Origin: Italy.

Synonyms: Corba, Corbina, Corbina Vicentina, Corgnola, Corniola, Corvina, Corvina Comune, Corvina Gentile, Corvina Nera, Corvina Pelosa, Corvina Reale, Corvina Rizza, Corvine Nostrana, Croetto, Crovina, Cruina, Curvinessa, & Martinenga, Sgorbera.

One clone: Corvina Veronese FPS 01.

Counoise - Black grape. One of the 14 grape varieties allowed in Chateauneuf-du-Pape. Earthy red fruits and medium plus acid.

Origin: France.

Synonyms: Aubon, Caula, Conese, Connoges, Connoise, Counese, Couneso, Cunoiso, Counoueso, Damas noir, Grosse Rogettaz, Guenoise, Moustardier, and Quenoise.

Two clones: Cunoise FPS 01 and ENTAV-INRA® 508.

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Dolcetto - Black grape. Not the same as Charbono in California that is DNA related to the Savoie varietal Corbeau. But there Charbono is another name for Dolcetto. Fat and juicy red with black fruit tones.

Origin: Italy.

Synonyms: Acqui, Barbirone, Bathiolin, Batialin, Beina, Bignola, Bignona, Bignonia, Bignonina, Bourdon noir, Cassolo, Charbonneau, Charbono, Chasselas noir, Cote rouge Merille, Crete de Coq, Debili Rifosk, Dolcedo Rotstieliger, Dolceto, Dolcetta nera, Dolcetto a Raspe Verde, Dolcetto a Raspo Rosso, Dolcetto nero, Dolcetto Piemontese, Dolchetto, Dolcino nero, Dolciut, Dolsin, Dolsin Raro, Dolzin, Dolzino, Dosset, Gros noir de Montelimar, Gros Plant, Maennlicher Refosco, Mauvais noir, Montelimar, Monteuse, Montmelian, Mosciolino, Nera Dolce, Nibio, Noirin d' Espagne, Nord du Lot et Garonne, Ocanette, Orincasca, Ormeasca, Ormeasco, Pico rouge, Pico rouge, Plant de Calarin, Plant de Chapareillan, Plant de Moirans, Plant de Montmelian, Plant de Provence, Plant de Savoie, Plant de Turin, Plant du Roi, Premasto, Primaticcio, Primitivo, Primitivo Nero, Promotico, Provençal, Ravanellino, Refork, Refork Debeli, Refork Male, Refosk Debeli, Rotstieliger Dolcedo, Savoyard, Turin, Turino, Uva d' Acqui, Uva d' Acquia, Uva del Monferrato, Uva di Ovada, and Uva di Roccagrimalda.

Five clones: Dolcetto FPS 01-04 & NWGFS 02.

Durif - Black grape. Most commonly known as Petite Sirah and widely planted in California. Inky tannic backbone with creamy, earthy black fruit flavors.

Origin: France.

Synonyms: Bas Plant, Dure, Duret, Dureza, Dyurif, Gros noir , Kek Durif, Nerin, Petit Duret, Petite Syrah, Petite Sirah, Pinot de l'Hermitage, Pinot de Romans, Plant Durif, Plant Fourchu, Serine, Sirane Fourchu, Sirane Fourchue, Syrah Forchue, and Syrah Petite.

Eight Clones: Durif FPS 01, 03-08. & NWGFS 05.

Falanghina - White Grape. Grown predominantly in the Campania region of Italy. Noted for aromas and flavors of green apples and citrus fruits.

Origin: Italy.

Synonyms: Biancozita, Biancuzita, Falanchina, Falanghina Greco, Falanghina verace, Falenghina, Falernina, Falerno Veronese, Fallanchina, Fallanghina, and Uva Falerna.

One clone: Falanghina FPS 01.

Fiano - White Grape. Produces medium bodied wines with floral aromas and flavors of honey. Most known for the wine Fiano di Avellino.

Origin: Italy.

Synonyms: Apiana, Apiano, Fiore Mendillo, Latino Bianca, Minutola, and SantaSofia.

Three clones: Fiano FPS 01-03.

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Furmint - White Grape. Main component in the famous Hungarian dessert wine Tokaji Aszu.

Origin: Hungary.

Synonyms: Beregi Furmint, Bihari Boros, Budai Goher, Cimigera, Damzemy, Demjen, Feher Furmint, Fourminte, Furmint de Minis, Furmint Valtozo, Goerin, Grasa de Kotnar, Kiraly Furmint, Luttenberger, Mainak, Malnik, Malvasia verde, Malvoisie verte, Malzak, Mehlweiss, Moslavac, Moslavac Bijeli, Moslavina, Mosler, Moslovac, Moslovez, Moster Gelber, Nemes Furmint, Poam Grasa, Poma Grasa, Poshipon, Posip, Posip Bijeli, Posip Veliki, Posip Vrgonski, Posipel, Posipon, Pospisel, Salver, Sari Furmint, Sauvignon vert, Seestock, Seeweinbeere, Shipon, Shiponski, Sipon, Som, Szegzoeloe, Sziget, Toca, Tokai Krupnyi, Tokaiskii, Tokaisky, Tokay, Weisslaber, Zapfete, Zapfner, and Zilavka.

One clones: Furmit FPS 01.

Gamay - Black grape. Main grape variety of Beaujolais where it produces light fruity reds. Also important in Geneva, Switzerland

Origin: France.

Synonyms: Gamay Noir.

Garnacha Gris – White/Grey grape. This is the grey grape version of Grenache/Garnacha. One of the 14 grape varieties allowed in Chateauneuf-du-Pape.

Origin: Spain.

Synonyms: Garnacha rioja, Garnacha roja, Garnacho rojo, Garnacha rosa, Grenache gris, Grey Grenache, Piros Grenache, Roscodos Pinheiro, and Szerke Grenache.

One clone: Garnacha Gris FPS 01.

Garnacha tinta - Black grape. See Grenache noir.

One clone: Garnacha tinta FPS 01.

Grapevine Family, Genus, Species, and Varieties

Gewürztraminer – White grape. An intensely aromatic varietal that produces a wide range of wines from bone dry to super sweet dessert wines. The best Gewürztraminer are produced in Alsace, France and Alto-Adige, Italy. More recent plantings in New Zealand are showing promise.

Origin: Italy.

Synonyms: Auvernas rouge, Blanc Brun, Blanc Court, Bon blanc, Christkindeltraube, Clevner, Crovena Ruzica, Dreimaenner, Dreimannen, Dreipfennigholz, Drumin, Duret rouge, Edeltraube, Fermentin rouge, Fleischweiner, Fourmenteau rouge, Frencher, Fromente, Fromenteau, Fuszeres, Gentil Rose Aromatique, Gentil-Duret rouge, Gentile blanc, Gewuerztraminer, Gringet, Gris Rouge, Haiden, Haiden, Heida, Kirmizi Traminer, Klaevner, Kleinbraun, Kleinwiener, Laebeinger, Livora Cervena, Liwora, Mala Dinka, Marzimmer, Mirisavi Traminac, Nature, Nature Rose, Noble Rose, Nuernberger Rot, Pinat Cervena, Pinot vert doré, Piros Tramini, Plant Paien, Princ Cerveny, Princ Cervena, Ranfoliza, Red Traminer, Rosso, Rotclevner, Rotedel, Roter Nuernberger, Roter Traminer, Rotfranken, Rothklauser, Rothweiner, Rothwiener, Rotklaevler, Rotklaevner, Rotklevner, Rousselet, Rusa, Ruska, Ryvola, Sauvagnin, Sauvagnin, Savagnin Jaune, Savagnin Rosa Aromatique, Savagnin Rose, St. Klauser, Termeno Aromatico, Tramin Cerveny, Tramin Korenny, Traminac, Traminac Crveni, Traminac Diseci, Traminac Mirisavi, Traminer, Traminer Aromatico, Traminer Aromatique, Traminer Musque, Traminer Parfume, Traminer Rose, Traminer Rozovyi, Tramini, Tramini Piros, Trammener, and Traminer Rot.

Eleven Clones: Gewürztraminer FPS 01-03, 11, 12, 21-23. ENTAV-INRA® 47. NWGFS 01 & 04.

Godello - White grape. Neutral flavors of apple and pear with undertones of limestone minerals.

Origin: Portugal/Spain.

Synonyms: Agodello, Agohenho, Agudanho, Agudelha, Agudelho, Agudello, Agudelo, Agundenho, Berdello, Godelho, Godella, Godenho, Gouveio, Ojo de Gallo, Trincadente, and Verdello (*not Verdelho*).

Graciano - Black grape. This is not the same grape as Mourvedre or Monastrell in France. It can be confusing because Graciano is also a synonym for Morrastel (which is also grown in France and Spain). Used in Rioja blends. High in acid, red plum, cherry and bramble.

Origin: Spain.

Synonyms: Morrastel, Tinta Miuda, Bastardo Nero, Bois Dur, Bordelais, Cagliunari, Cagnonale, Cagnovali Nero, Cagnulari, Cagnulari Bastardo, Cagnulari Sardo, Cagnulatu, Caldareddu, Caldarello, Cargo Muol, Courouillade, Couthurier, Drug, Graciana, Graciano Tinto, Grosse Negrette, Jerusano, Karis, Matarou, Minostello, Minustello, Monastel, Monestaou, Morastel, Morestel, Mourastel, Perpignan, Perpignanou Bois Dur, Plant de Ledenon, Tinta de Rotilla, Tinta de Rota, Tinta do Padre Antonio, Tintilla, Uva Cagnelata, Xeres, and Zinzillosa.

Six clones: Graciano FPS 01, 03, & 04. PLANSEL® 572, 573, 592.

Grapevine Family, Genus, Species, and Varieties

Greco di Tufo – White grape. Medium plus acidity and minerals with citrus and stone fruits.

Origin: Greek

Synonyms: Balsamina Bianca, Biancame, Greco Bianco, Greco Biondello, Greco Castellano, Greco del Vesuvio, Greco delle Torre, Greco di Gerace, Greco di Napoli, Greco Maceratino, Greco Moneccio, Greca , Grieco, Montecchiese, Morbidella, and Ragusano Bianco.

One clone: Greco di Tufo FPS 01

Grenache Noir – Black grape. One of the most widely planted grapes worldwide. Wide range of flavors depending on the area of production. Typically exhibits notes of red fruits and earthy flavors.

Origin: Spain.

Synonyms: Garnacha, Garnacho tinto, Grenache, Grenache noir, Abundante, Abundante de Reguengos, Aleante, Aleante di Rivalto, Aleante Poggiarelli, Alekantina, Alicant blau, Alicante, Alicante de Pays, Alicante di Spagna, Alicante Grenache, Alicante noir, Alicante Roussillon, Alicantina, Aragonais, Aragonese, Bernacha negra, Bois Jaune, Cannoao, Cannonaddu, Cannonadu Nieddu, Cannonau, Cannonatu, Cannonau Selvaggio, Cannonao, Canonazo, Cannonno, Carignane Rosso, Carignan rouge, Carignane rousse, Elegante, Francese, Garnaccho negro, Garnacha Comun, Garnacha del País, Garnacha negra, Garnacha País, Garnacha roja, Garnacho, Garnatxa negra, Garnatxa ni, Garnatxa País, Garnatxa tinta, Girondet, Gironet, Granaccia, Granacha, Granaxa, Granaxo, Grenache a Fleurs Femelles, Grenache Crni, Grenache de Alicante, Grenache de Kaspero, Grenache rouge, lladoner, Kek Grenache, Lladoner, Lladoner Aragonase, Lladoner negro, Mencida, Navaro, Navarra, Navarre de la Dordogne, Navarret de la Dordogne, Navarro, Negra, Negru Calvese, Nessuno, Nieddu, Ranconnat, Red Grenache, Redondal, Retagliadu, Rivesaltes, Rivos Altos, Rool Grenache, Rousillon, Rousillon tinto, Roussillon, Rouvaillard, Sans Pareil, Santa Maria de Alcantara, Tentillo, Tinta, Tinta Aragonese, Tintella, Tintilla, Tinto, Tinto Aragon, Tinto Aragonese, Tinto Menudo, Tinto Navalcarnero, Tintore di Spagna, Tintoria, Tocal Rosso, Toledana, Uva di Spagna, Vernaccia di Serrapetrona, and Vernaccia nera.

Eight clones: Grenache noir FPS 01A, 03, 04. ENTAV-INRA® 224, 515. NWGFS 03, 01A, 02.

Grignolino – Black grape. Well known in the Piedmont region of Italy where it forms good rose and light fruity reds.

Origin: Italy

Synonyms: Arlandino, Balestra, Barbesino, Barbesinone, Barbezina, Barbisone d'Espagne, Barbosina de Bologne, Girodino, Grugnoliino Pisano, Nebbiolo Rosato, Neretto di Marengo, Pollasecca, Rosetta, Rossello, Rossetto, and Verbesino.

Two clones: Grignolino FPS 03 & 04.

Grapevine Family, Genus, Species, and Varieties

Grüner Veltliner – White grape. Most famous in Lower Austria where it produces fresh crisp peppery wines.

Origin: Italy

Synonyms: Bielopisak, Feherhegyue, Gruen Muskateller, Green Veltliner, Manhardtraube, Nemes Veltelini, Reifler Weiss, Ryvola Bila, Tarant Bily, Valteliner, Veltliner Gruen, Veltlini, Veltlinkske Zelene, Weissgipfler, Yesil Veltliner, Zeleny Muskatel, Zleni Veltinac, Zoeld Muskotaly, Zoeld Veltelini

Two clones: Green Veltliner NWGFS 01 & Green Veltliner FPS 01

Hárslevelu – White grape. Primary varietal for Hungarian white wines and also a component of the dessert wine Tokaji.

Origin: Hungary

Synonyms: Budai Goher, Frunza de Tei, Gars Levelyu, Hárslevelue, Harst Leveliu, Hosszunyelue Feher, Kerekes, Kereklevelue, Laemmerschwanz, Lindenblaettrige, Lindenblattriger, Linder, Lipolist Biyali, Lipovina, Musztafer, Noethab, Tarpai, Tokay, and Voeroes.

Kerner – White grape. Cross between Riesling and Trollinger that is similar to Riesling in body, acidity and ripeness. Makes good inexpensive **TB** and **TBA's**.

Origin: Germany

Synonym: Weinsberg S 25-30

One Clone: Kerner FPS 01

Lagrein – Black grape. Well known in the Trentino/Alto Adige regions of northern Italy. Can produce a wide array of wines, rose and dry reds, depending on the producer. High in acid with bold black fruits.

Origin: Italy

Synonyms: Lagarino, Lagrain, and Lagrein Kretzer

One Clone: Lagrein FPS 03

Lambrusco – Black grape. Produces light fruity and fizzy reds in a dry and sweet form. Best quality is from the Emilia-Romagna region of Italy.

Origin: Italy

Synonyms: Abrostino, Abrostolo Dolce, Abrusco, Abrustano Nero, Canino, Colorino, Colorino di Lucca, Colorino di Valdarno, Colorino Pisano, Lambrusca di Alessandria, Raverusto, and Tintiglia II.

One Clone: Lambrusco FPS 01

Grapevine Family, Genus, Species, and Varieties

Macabeo – White grape. Used as a blending grape in Rueda (Viura) and for the production of Armagnac (Ugni Blanc) in France. On its own produces straw colored dry wines.

Origin: Spain/ Middle East

Synonym: Alcanol, Alcanon, Blanca de Daroca, Charas blanc, Forcalla, Gredelin, Lardot, Listan Andaluschii, Listan Andaluzskii, Lloza, Macaban, Macabeu, Maccabéo, Maccabeou, Maccabeu, Makkobeo, Malvoisie, Provensal, Queue de Renard, Rossan, Subirat, Tokay, **Ugni blanc**, Viuna, **Viura**, and Xarello.

One Clone: Macabeo PLANSEL® 568

Malbec – Black grape. Famous in Argentina, the region of Cahors, France and as a blending grape in Bordeaux. Dark, tannic and smoky red wine with high extracted black fruit flavors.

Origin: France

Synonyms: Agreste, Ausseres, Auxerrois, Auxerrois de Laquenexy, Auxerrois des Moines de Picpus, Auxerrois du Mans, Balouzat, Beran, Besparo, Blanc de Kienzheim, Bouyssalet Bouyssaledes, **Cahors**, Calarin, Cauli, Claverie noire, Costa Rosa, Costa Rossa, Costo roujo, Côt, Côt de Bordeaux, Côt de Pays, Côt de Touraine, **Côt rouge**, Côt à Queue rouge, Côt à Queue verte, Cote rouge, Cotes rouges, Doux noir, Estrangey, Etranger, Etrangey, Franc Moreau, Gourdaux, Gourdoux, Grelot de Tours, Grifforin, Gros noir, Gros Pied rouge, Grosse Merille, Guillan, Hourcat, Jacobain, Jacobin, Luckens, Lutkens, Magret, Malbech, Malbeck, Malbek, Margrot, Medoc noir, Monrame, Mouranne, Moustere, Navarien, Navarin, Negre de Prechac, Negre Doux, Negrera, Noir de Chartres, Noir de Pressac, Noir Doux, Nyar de Presak, Oeil de Perdrix, Parde, Perigord, Pied de Perdrix, Pied Doux, Pied noir, Pied Rouge, Pied Rouget, Piperdy, Plant d'Arles, Plant de Meraou, Plant de Roi, Plant du Roi, Prechat, Pressac, Prunieral, Quercy, Queue rouge, Quille de Coq, Quille de Coy, Raisin de Co, Romieu, Saint-Emilion, Soumansigne, Teinturier, Teinturin, Terranis, Tinturin, Vesparo, Vesparol

Nine Clones: Malbec FPS 04, 06, 09-12. NWGFS 04, 06, 09.

Malvasia Bianca – White grape. One of four styles of Madeira. Produces aromatic sweet and dry wines.

Origin: Italy

Synonym: Alicante Espagnol du Dao, Blanca roja, Blancarroga, Blanco Fino, Blanquirroja, Cagazal, Dona Branca, Iuvarella, Lavarela Verdana, Malmsey, Malvasia bianca del Chianti, Malvasia Comun, Malvasia de Colares, Malvasia de la Rioja, Malvasia de Rioja, Malvasia del Lazio, Malvasia di Candia, Malvasia Fina, Malvasia Puntinata, Malvasia Riojana, Malvazija Bela, Masovy Hrozon, Monemvassia, Rojal, Sarga Malvazia, Suavidad, Subirat, Subirat Parent, Tobia, Toloca, Uva de Arroba, Uva Greca, Verdana, Verdana, and Verdeja.

One Clone: Malvasia Bianca FPS 03

Grapevine Family, Genus, Species, and Varieties

Malvasia fina - White grape. Used for blending. Grown in the Dão and the Douro. The Portuguese white wine grape Boal is grown on the island of Madeira under the name Boal Cachudo.

Origin: Portugal

Synonym: Boal, Boal Cachudo

Marsanne – White grape. Major variety in the Rhone Valley. Known for its palate of nutty tropical fruits.

Origin: France

Synonyms: Avilleran, Champagne Piacentina, Ermitage, Grosse Roussette, Hermitage, Johannisberg, Marsan Belyi, Marsanne Blanche, Metternich, Rhin, Rousseau, Roussette de Sainte-Peray, Roussette Grosse, Seme du Rhin, White Hermitage, and Zrmitazh.

Four Clones: Marsanne FPS 01, 03 & 04. ENTAV-INRA® 574

Mataró – Black grape. See Mourvedre and Monastrell.

Mencía - Black grape. Light and herbaceously fragrant varietal.

Origin: Spain

Synonyms: Cabernet, Jaen, Loureiro tinto, Médoc, Mencía pajara, Mencía pequeña, Negra, Negro

Merlot - Black grape. Most planted varietal in Bordeaux. Can take on many different forms in different regions.

Origin: France

Synonyms: Alicante, Bigney, Bigney rouge, Bordeleze Belcha, Crabutet, Crabutet noir, Medoc noir, Merlau, Merlau rouge, Merle Petite, Merlo, Merlot noir, Odzalesi, Plant du Medoc, Plant Medoc, Seme de la Canau, Seme dou Flube, Semilhoun rouge, Semillon rouge, and Vitraillie.

Twenty-nine Clones: Merlot FPS 01, 03, 06, 08, 09, 10-12, 15, 18, 20-29. ENTAV-INRA® 181, 314, 346, 348. NWGFS 01, 03, 06, 15, 20.

Grapevine Family, Genus, Species, and Varieties

Molinara – Black grape. Blending varietal in Valpolicella and Amarone.

Origin: Italy

Synonyms: Breppion Scavolegno, Breppion Scuro, Breppon, Molinara Ciara, Molinara Rada, Pola, Rossanella, Rossanella Gentile, Rossara, Rossara della Forcella, Rossiccio Chiaro, Scavolegno, Sola, Uva Salata, Vespone

One Clone: Molinara FPS 01

Monastrell – Black grape. See Mourvedre.

Origin: Spain

One Clone: Monastrell PLANSEL® 571

Montepulciano – Black grape. Well known in the form of Montepulciano d’Abruzzo.

Origin: Italy

Synonyms: Cordisco, Cordisio, Montepulciano d’Abruzzo, Montepulciano di Torre de Passeri, Morellone, Primitivo, Sangiovese Cardisco, Sangiovese Cordisco, Torre dei Passeri, Uva Abruzzese, Uva Abruzzi

Four Clones: Montepulciano FPS 01-04.

Mourvèdre - Black grape. Rich and earthy. One of the 14 authorized varietals for Chateauneuf-du-Pape. Does well on its own in California and increasingly popular in Australia.

Origin: Spain

Synonyms: Alcallata, Alcayata, Alicante, Arach Sap, Baltazar, Balthazar, Balzac, Balzac noir, Balzar, Benada, Benadu, Beneda, Beni Carlo, Berardi, Bod, Bon Avis, Buona Vise, Casca, Catalan, Cayata, Caymilari Sarda, Charnet, Churret, Clairett noire, Damas noir, Drug, English Colossal, Espagnen, Espar, **Esparte**, Estrangle-Chien, Etrangle-Chien, Flouron, Flouroux, Garrut, Gayata tinta, Karis, Maneschaou, Marseillais, Mataró, **Mataro**, Maurostel, Monastre, **Monastrell**, Monastrell Menudo, Monastrell Verdadero, Morastell, Murrastel, Morvegue, Mourvede, Mourvedon, Mourvegue, Mourves, Mourveze, Murvedr, Murviedro, Negre Trinciera, Negria, Negron, Neyron, Piemonaise, Pinot Fleri, Plant de Ledenon, Plant de Saint Gilles, Reina, Ros, Rossola negra, Rossola nera, Spar, Tinta, Tintilla, Tinto, Tire Droit, Torrentes, Trinchiera, Verema, Veremeta, and Vereneta.

Five Clones: Mourvèdre FPS 03, 04. ENTAV-INRA® 247, 450. NWGFS 04.

Müller-Thurgau – White grape. Cross between Riesling x Madeleine Royale.

Origin: Germany

Synonyms: Müller, Müllerka, Müllerovo, Müller-Thurgaurebe, Riesling-Sylvaner, Rivaner, Rizanec, Rizlingszilvani, Rizvanac bijeli

One Clone: Muller-Thurgau NWGFS 01

Grapevine Family, Genus, Species, and Varieties

Muscadelle – White grape. Often fortified and used in the production of dessert wines.

Origin: France

Synonyms: Angelicant, Angelicaut, Angélico, Auvernat blanc, Blanche douce, Bouillenc Muscat, Buillenc, Catape, Colle, Colle-Musquette, Douzanelle, Douçanelle, Guilan doux, Guilan, Guilan Musque, Guilan-Muscat, Guépié, Marmesie, Marseillais, Muscade, Muscadela, **Muscadet**, Muscadet doux, Muscalea, Muscat fou, Muskadel, Musquette, Pedro Ximenes Krimsky, Raisimotte, Raisinotte, Rousselou, Sauvignon vert, Sauvignon à gros grains, Sauvignon-Muscadelle, Tokay (Australia)

One Clone: Muscadelle FPS 02

Muscat of Alexandria – White grape. Used in the production of dessert wines.

Origin: Egypt

Synonyms: Aggliko, Albillo de Toro, Alexander Muskat, Alexandriai Muskotaly, Angliko, Apostoliatiko, Argelino, Augibi blanc, Augibi Muscat, Bowood Muscat, Broccula, Chasselas Musque, Damascener Weiss Muscat, Englesiko, Gerosolimitana bianca, Gordo, Hanepoot, Isidori, Iskendiriye Misketi, Jubi, Kabrija, Malaga blanc, Meski, Moscatel de Alejandria, Moscatel de Chipiona, Moscatel de Espana, Moscatel de Grano Gordo, Moscatel de Jesus, Moscatel de Lanzarote, Moscatel de Malaga, Moscatel de Samso, Moscatel de Setubal, Moscatel de Valencia, Moscatel Flamenco, Moscatel Gordo, Moscatel Gordo Blanco, Moscatel Gordo blanco, Moscatel Real, Moscatel Roma, Moscatel Romano, Moscatellone, Moscato di Calabria, Moscato di Pantelleria, Moscato Gordo, Moschato Alexandrias, Muscat Candia, Muscat Croquant, Muscat d' Alexandrie, Muscat d' Espagne, Muscat de Jerusalem, Muscat de Kelibia, Muscat de Raf-Raf, Muscat de Rivesaltes, Muscat de Roma, Muscat Flame, Muscat Grec, Muscat Primavaïs, Muscat à Gros Grains, Muscataiu, Muscatdamascener Weiss, Muscatellone di Espagna, Muscat Romain, Muskat Etolyata, Muskat Krupni, Muskat Rapski, Muskat Veliki, Pais Myuske, Panse Muscade, Panse Muscat, Panse Musquee, Paradisia, Pasa de Malaga, Pascal Muscat, Passe Muscat, Raisin de Malaga, Roode Hanepoot, Salamanna, Smirnai Szagos, Spanier Weiss, Tokay Musque, Tottenham Park Muscat, Vanille Raisin, White Hanepoot, Zibebenmuscateller Weiss, Zibibb, **Zibibbo**

One Clone: Muscat of Alexandria FPS 02

Muscat Ottonel – White grape. Used to make sweet wines.

Origin: France

Synonyms: Chasselas Saint Fiacre, Hungarian Muscat, Mirisavka, Mirislavka, Muscadel Ottonel, Muscat de Craciunel Tirnave, Muskat Ottonel, Muskotaly, Ottonel, Ottonel Frontignan, Ottonel Muskotaly, and Tamaiioasa Ottonel.

Three Clones: Muscat Ottonel FPS 01, 04. NWGFS 01

Grapevine Family, Genus, Species, and Varieties

Nebbiolo - Black grape. Most noted as the varietal responsible for Barolo and Barbaresco.

Origin: Italy

Synonyms: Barolo, Barbesino, Brunenta, Chiavennasca, Lampia, Marchesana, Martesana, Melasca, Melaschetto, Melascone, Michet, Nebbieul Maschio, Nebbiolin, Nebbiolin Canavesano, Nebbiolin Comune, Nebbiolin Lungo, Nebbiolin Nero, Nebbiolo d' Asti, Nebbiolo di Barbaresco, Nebbiolo di Barolo, Nebbiolo di Beltram, Nebbiolo di Bricherasio, Nebbiolo di Carema, Nebbiolo di Ivrea, Nebbiolo di Lorenzi, Nebbiolo di Masio, Nebbiolo di Moncrivello, Nebbiolo di Monsordo, Nebbiolo di Nizza, Nebbiolo di Nizza della Paglia, Nebbiolo di Piemonte, Nebbiolo di Sciolze, Nebbiolo di Stroppio, Nebbiolo Femmina, Nebbiolo Michet, Nebbiolo Occellino, Nebbiolo Pignolato, Nebbiolo Sinistra Tanaro, Nebieu, Nebieul, Nebieul Fumela, Nebiolo, Nibieul Burghin, Nibio, Nibiol, Nubiola, Pantiner, Picotender, Picotendre, Picotener, Picoultener, Picoutendro Maschio, Pioultener, Poctener, Prugnet, Pruine, Prunent, Prunenta, Pugnet, Rosetta, Spana Grossa, and **Spanna**.

Three Clones: Nebbiolo FPS 01, 06, 08-12. NWGFS 01

Nero d'Avola – Black variety. Spicy earthy and peppery varietal famous in Sicily for its dry wines.

Origin: Italy

Synonyms: Calabrese

Pedro Ximénez – White grape. Used mostly in the production of sweet wines.

Origin: Spain

Synonyms: Alamis, Alamis de Totana, Jiménez, Myuskadel, Pasa Rosada de Malaga, Pedro, Pedro Jiménez, Pedro Khimenes, Pedro Ximenes de Jerez, Pedro Ximenez de Montilla, Pedro Ximénes, Pedro Ximinez, Pero Ximen, Pero Ximénez, Uva Pero Ximen, Uva Pero Ximénez, Ximenecia, and **Ximénez**.

One Clone: Pedro Ximénez FPS 01

Petit Verdot – Black grape. Hearty inky varietal used as a blending grape for Bordeaux. Also becoming popular on its own in Spain and California.

Origin: France

Synonyms: Bonton blanc, Bouton, Carmelin, Heran, Lambrusquet noir, Petit Verdau, Petit Verdot Noir, Plant de Palus, Verdau, Verdot, Verdot Petit, Verdot Rouge

Three Clones: Petit Verdot FPS 01, 02. ENTAV-INRA® 400, 1058. NWGFS 02.

Petite Sirah – Black grape. See Durif.

One Clone: Petite Sirah FPS 08

Grapevine Family, Genus, Species, and Varieties

Picolit – Black grape. Found in Northern Italy in the Friuli region where it makes great dessert wines.

Origin: Italy

Synonyms: Balafan, Balafant, Blaustengler, Blaustingl Weiss, Keknyelue, Kelner, Piccoletto bianco, Piccolet, Piccoletta, Piccolit, Piccoliti bianco, Piccolito, Piccolito del Friuli, Piccolitto Friulano, Picoletto bianco, Pikolit, Pikolit Weiss, Piros Keknyelue, Ranful Weiss, Uva del Friuli, and Wisellertraube Weiss

Two Clones: Picolit FPS 01 & 02

Pinot Blanc – White Grape. Produces dry crisp mineral driven wines.

Origin: France

Synonyms: Arbst weiss, Arnaison blanc, Arnaison, Auvernas, Auvernat, Beli Pinot, Beyaz Burgunder, Biela Klevanjka, **Blanc de Champagne**, Bon blanc, Borgogna bianco, Borgognino, Burgundac beli, Burgunder blanc, Burgunder weiss, Burgunder weisser, Burgundske Biele, Claevner, Clavner, Clevner, Daune, Epinette, Feher Kisburgundi, Feher Klevner, Feherburgurdi, Feherburgundi, Gentil blanc, Kleinedel, Kleiner weiss, Klevner, Morillon blanc, Pineau, Pineau blanc, Pino Belyi, **Pinot bianco**, Pinot Bianco verde, Pinot blanc d'Alsace, Pinot blanc vrai, Pinot branco, Pinot Doux, Pinot verde, Plant de la Dole, Plant Dore, Roci Bile, Rouci Bile, Rouci Bile, Rulaender weiss, Vert Plant, Weis Silber, Weiss Elder, Weissarbst, **Weissburgunder**, Weissclaeven, Weissclevener, Weisser Arbst, **Weisser Burgunder**, Weisser Klevner, **Weisser Rulander**, and Weissklevner

Seven Clones: Pinot Blanc FPS 05-09. ENTAV-INRA® 54. NWGFS 10.

Pinot Gris – White grape. Produces dry crisp mineral driven wines.

Origin: France

Synonyms: Affume, Anche Cendree, Arnaison gris, Aserat, Auvergne gris, Auvernas gris, Auvernat gris, Auvernet, Auxerrat, Auxerrois gris, Auxois, Baratszinszoeloe, Bayonner, Beurot, Biliboner, Borgogna grigio, Burgundac Sivi, **Burgunder Roter**, Burgundske Sede, Burgundske Sive, Burot, Casper, Champagner, Claevner Roth, Cordonnier gris, Crvena Klevanjka, Drusen, Drusent, Druser, Edelklevner, Enfume, Faultraube, Fauvet, Fromenteau gris, Fromentot, Grau Clevnet, Grauburgunder, Grauer Burgunder, Grauer Moench, Grauklaeber, Grauklevner, Gris Commun, Gris Cordelier, Griset, Hamsas Szoello, Hamuszoeloe, Kapuzinerkuttan, Klevanjka, Klevanjka Crvena, Levrant, Levraut, Malvasier grau, Malvoisie, Mauserl, Mausfarbe, Moreote gris, Murys, Muscade, Musler, Noirin gris, Ouche, Petit gris, Pineau Cendree, Pineau gris, Pinot Beurot, Pinot Cendre, Pinot Franc gris, **Pinot grigio**, Pinot Seryi, Piros Kisburgundi, Pirosburgundi, Pyzhik, Rauchler, Raulander, Rehfaul, Reilander, Reloender, Rheingrau, Rheindraube, Riesling grau, Rohlander, Rollander, Roloender Drusen, Rother Clevner, Rouci Sedive, Ruhlandi, Rulaender, Rulaender Sivi, **Rulander**, Ryjik, Ryzik, Savoyertraube grau, Savoyertraube roth, Schieler, Sivi Pinot, Speyerer, Spinovy Hrozen, Stahler, Strahler, Szuereke Kisburgundi, Szuereke Klevner, Szuerekebarat, Szurkebarat, Tokay, **Tokay d' Alsace**, Tokayer, Valais, Wiliboner, and Zelenak

Twelve Clones: Pinot Gris FPS 01, 04, 05, 08-12. ENTAV-INRA® 52, 457. NWGFS 01 & 05.

Grapevine Family, Genus, Species, and Varieties

Pinot Meunier – Black grape. One of the three main component grapes in Champagne. Rarely bottled on its own.

Origin: France

Synonyms: Auvergnat gris, Auvernat gris, Auvernat-Meunier, Black Cluster, Blanc Meunier, Blanche Feuille, Blaue Postitschtraube, Bourgogne Miller's, Carpinet, Cerna Mancujk, Credinet, Farineux, Farineux noir, Fernaise, Fresillon, Fromente, Fruher blaue Mullerrebe, Goujeau, Gris Meunier, Miller Grape, Miller's Burgundy, Miller's Grape, Molinaria, Molnarszoeloe, Molnar Toke, Molnar Toke Kek, Morillon Tacone, Morone Farinaccio, Moucnik, Muellerrebe, Mullerrebe, Munier Grape, Noiren Enfarine, Noirien de Vuillapans, Noirin Entarine, Pineau Meunier, Pino Mene, Pinot Femelle, Pinot Meunier, Pinot Negro, Plant de Brie, Plant Meunier, Plant Munier, Postitschtraube, Rana Modra, Rana Modra Mlinarica, Resseau, Riesling noir, Sarpinet, Schwarzriesling, Trezillon de Hongrie, and Wrotham Pinot.

Three Clones: Meunier FPS 01. ENTAV-INRA® 864. NWGFS 01

Pinot noir – Black grape. Famous varietal of the Burgundy region of France, as well as New Zealand, Oregon and California where it can produce long lived complex wines. In other parts of the world the wines are light and fruity.

Origin: France

Synonyms: Aprofekete, Arbst, Assmannshaeuser, Auvernat, Auvernat, Auvernat noir, Auvernat noir, Auxerra, Berligout, Blauburgunder, Blauer Burgunder, Blauer Nurnberger, Blauer Spaetburgunder, Blauer Spatburgunder, Blauer-Klavner, Bodenseetraube, Borgogna Nero, Bourguignon noir, Brunlauber, Burgundac Crni, Burgunder Blauer, Burgundske Modre, Cerna Ranka, Chambertin, Chpatchok, Claevner Blau, Clavner, Clevner, Cortailod, Dickblau, Franc Noiren, Franc Pineau, Franc Pinot, Gribalet noir, Gut Blau, Karapino, Kisburgundi, Kisburgundi Kek, Klaevner, Klebroth, Klevner blau, Klevner Kek, Langedet, Malterdinger, Maltertinger, Marillon, Massoutel, Modra Klevanjka, Modra Klevanyka, Moehrchen Spaet, Mohrchen, Mohrenkoenigin, Mor Burgunder, Morillon, Morillon noir, Nagyburgundi, Neyran, Noble, Noble Joue, Noir Meun, Noiried, Noirien, Noirien Ternent, Noirun, Nuernberger Blau, Okrugla Ranka, Orleans, Petit Bourguignon, Petit Noirin, Petit Plant Dore, Petit Verot, Pignola, Pignolet, Pignoliga, Pignolo, Pineau, Pineau de Bourgoyne, Pineau de Chambertin, Pineau noir, Pino Corni, Pinot, Pinot Clevner Cl. Maria-feld, Pinot d' Ay, Pinot de Fleury, Pinot de Gevrey, Pinot de Migraine, Pinot Droit, Pinot Fin, Pinot Franc, Pinot Go, Pinot Mare, Pinot Negru, **Pinot Nera**, Pinot Neraborgogna Rosso, **Pinot Nero**, Pinot Salvagnin, Pinot Tinto, Plant a Bon Vin, Plant Dae, Plant de Cumieres, Plant de la Dole Noir, Plant Dore, Plant Fin, Plant Medaille, Plant Noble, Raisin de Bourgogne, Raucy, Roter, Roter Assmannshaeuser, Roter Burgunder, Rouci, Rouci Male, Rouci Modre, Rouget, Salvagnin Pignol, Samtrot, Savagin noir, Savagnin noir, Schurzir Riesling, Schwarzer Assmannhauser, Schwarzer Burgunder, Schwarzer Riesling, Schwarzer Sussling, Schwarzklevner, Shpachok, Spacok, **Spaetburgunder**, Suessedel, Suessschwarz, Sussedel, Sussling, Sussrot, and Vert Dore.

Seventy-One Clones: Pinot noir FPS 01A, 02A, 09, 13, 15, 16, 18, 19, 22, 23, 31, 32, 37-40, 44, 46-48, 51, 54, 55, 66-94, 96-109, 116-123, ENTAV-INRA® 165, 236, 386, 521, 667, 743, 927, 943.

Grapevine Family, Genus, Species, and Varieties

Pinotage – Black grape. Cross between Cinsault and Pinot Noir. Grown almost exclusively in South Africa. Produces earthy mineral driven wines with medium high tannins and notes of bramble, tar and acetone.

Origin: South Africa

One Clone: Pinotage FPS 01

Picpoul - White grape. Main component in the wine Picpoul de Pinet. Dry minerals with notes of apple and pear.

Origin: France

Synonyms: Avello, Avillo, Extra, Feher Piquepoul, Folle Blanche, Languedocien, Picapoll, Picapolla, Picapulla, Picpoul, Picpoul Blanc, and **Picpoul de Pinet**.

Primitivo – Black grape. Can be lean and dry to jammy and sweet.

Origin: Croatia

Synonyms: Crljenak kaštelanski, Gioia del Colle, Locale, Morellone, Plavac veliki, Pribidrag, Primaticcio, Primitivo, Primitivo di Gioia, Primitivo di Locale, **Primitivo nero**, Uva della Pergola, Uva di Corato, Zin Familiarment, and **Zinfandel**.

Three Clones: Primitivo FPS 03, 05 & 06.

Prosecco – White grape. Known for its role in the production of sparkling wine, flavors range from dry to sweet.

Origin: Italy

Red Veltliner – Black grape. This is a mutation of Grüner Veltliner in the black grape form.

Origin: Austria

Synonyms: Ariavina, Bakor, Buzyn, Csucsos Bakor, Erdezha Shopatna, Feldliner, Feldlinger, Fleischtraube Rot, Grosswiener, Krdeca, Mavcnik, Nagy Veltelini, Nagysagos, Nyulsoeloe, Piros Veltelini, Rabolina, Raisin de Saint Valentin, Ranfler, Ranfolica, Ranfolina, Ranfoliza, Riegersburger Rothkoepfel, Rote Fleischtraube, Roter Muskateller, **Roter Veltliner**, Rotgipfler, Rothlichter, Rotreifler, Ryvola Cervena, **Veltliner Rot**, Veltliner Rot Weiss; Tarant Rot, Vernyeges Veltelini, and Ziegelroth

Two Clones: Red Veltliner FPS 01 & 03

Refosco – Black grape. Native to northern Italy in the areas of Friuli, Gavi and Trentino. Produces a hardy rich and powerful wine.

Origin: Italy

Synonyms: Cagnina, Canina, Crabb's Black Burgandy, Dolcedo, Drobni Rifoshk, Grosse Syrah, Mercuri, Refasco, Refosca, Refoschino, Refosco dal Peduncolo Rosso, Refosco del Peduncolo Rosso, Refosco Nostrano, Rephousko, Rifosco, Rifoshk Debeli, Riphosko, Schitterer, and Teran.

One Clone: Refosco FPS 03

Grapevine Family, Genus, Species, and Varieties

Ribolla Gialla – White grape. Crisp, dry white wines.

Origin: Italy

Synonyms: Avola, Ribollat, Ribuole, Gargania, Pignolo, Rabiola, Rabola, Rabolla, Rabolla Dzhalla di Rozatsio, Rabuele, Raibola, Rebolla, Rebula, Rebula Bela, Ribola Djiala, Ribolla, Ribolla bianca, Ribolla Dzhalla, Ribolla Gialla di Rosazz, Ribolla Gialla di Rosazzo, Ribollat, Riboule, Ribuela, Ribuele Zale, Ribula Zuta, Robola, Robolla

One Clone: Ribolla Gialla FPS 01

Riesling – White grape. Aromatic varietal with complex flavors. Produces a wide range of styles from sweet dessert wines to bone dry aperitif wines.

Origin: Germany

Synonyms: Beregi Riesling, Beyaz Riesling, Biela Grasevina, Dinca Grasiva Biela, Edelriesling, Edle Gewurztraube, Fefferl, Feher Rajnai, Gentil Aromatique, Gentile Aromatique, Gewuerzriesling, Gewuerztrabe, Graefenberger, Graschevina, Grasevina Rajnska, Grauer Riesling, Hochheimer, Johannesburg Riesling, **Johannisberg Riesling**, Johannisberger, Johannisberger Riesling, Karbacher, Karbacher Riesling, Kastellberger, Kis Rizling, Kleigelberger, Kleinriesler, Kleinriesling, Klingelberger, Krauses, Lipka, Moselriesling, Niederlaender, Niederlander, Oberkircher, Oberlaender, Petit Rhin, Petit Riesling, Petracine, Pfaelzer, Piros Rajnai Rizling, Raisin du Rhin, Rajnski Rizling, Rajnai Rizling, Rajnski Ruzling, Rano, Reichsriesling, Reissler, Remo, Rendu, Reno, Rezlin, Rezlink, Rheingauer, Rheinriesling, Rhiesling, Rhine, Rhine Riesling, Riesler, Riesling Bianco, Riesling blanc, Riesling de Rhin, Riesling Echter Weisser, Riesling Edler, Rieslinger, Riesling Gelb Mosel E 43, Riesling Giallo, Riesling Grosso, Riesling Gruener Mosel, Riesling Mosel, Riesling Reinskii, Riesling Renano, Riesling Renano Bianco, Riesling Rhenan, Riesling Weiss, Rislinenok, Risling Reinskii, Rislinok, Rizling Linner, Rizling Rajnai, Rizling Rajnski, Rizling Rajnski, Rizling Rynsky, Roessling, Rohac, Rosling, Rosslinger, Ruessel, Rusling, Ryzlink Rynsky, Starosvetske, Starovetski, Szuerke Rizling, Uva Pussila, **Weisser Riesling, White Riesling**

Sixteen Clones: Riesling FPS 01, 04, 09, 10, 12, 17, 19, 20-27. ENTAV-INRA® 49

Rondinella – Black grape. Key component in the blends of Valpolicella and Bardolino.

Origin: Italy

Synonyms: none

One Clone: Rondinella FPS 01

Grapevine Family, Genus, Species, and Varieties

Roussanne – White grape. Key component in the blends of Hermitage, St. Joseph and St. Péray. Very age-worthy.

Origin: France

Synonyms: Barbin, **Bergeron**, Courtoisie, Fromental, Fromental Jaune, Fromenteau, Greffon, Greffou, Martin Cot, Picotin blanc, Plant de Seyssel, Rabellot, Rabelot, Ramoulette, Ramoullette, Rebellot, Rebolot, Remoulette, Roussane blanc, and **Rousette**.

Three Clones: Roussanne FPS 02 & 03. ENTAV-INRA® 468

Sagrantino – Black grape. Known for producing dry and sweet wines in region of Umbria in Sagrantino di Montefalco DOCG.

Origin: Italy

Synonyms: Sagrantino di Montefalco, Sagrantino Rosso

One Clone: Sagrantino FPS 01

Sangiovese – Black grape. Light to medium in body with earthy cherry flavors. Often blended with international varieties i.e. Super Tuscans. Major grape in Tuscany: Chiantis & Brunello di Montalcino.

Origin: Italy

Synonyms: **Calabrese**, Cardisco, Cordisio, Dolcetto Precoce, **Grosso di Montalcino**, Ingannacane, Lambrusco Mendoza, Maglioppa, Montepulciano, **Morellino**, **Morellino di Scansano**, Morellone, Moscatale, Negretta, Nerino, Niella, Nielluccia, Nielluccio, Pignuolo Rosso, Pignolo, Pignolo Rosso, Plant Romain, Primiticcio, **Prugnolo**, **Prugnolo di**

Montepulciano, Prugnolo Gentile, **Prugnolo Gentile di Montepulciano**, Riminese, San Giovetto Grosso, San Roveto, San Zoveto, Sancivetro, Sangineto, Sangiogheto, Sangiovese dal Cannello Lungo, Sangiovese del Verrucchio, Sangiovese di Lamole, **Sangiovese di Romagna**, Sangiovese Dolce, Sangiovese forte, **Sangiovese Gentile**, **Sangiovese grosso**, Sangiovese Montanino, Sangiovese Nostrano, Sangiovese piccolo, **Sangiovese Toscano**, San Giovetto, Sangiovetto, Sangiovetto dell ' Elba, Sangiovetto Dolce, Sangiovetto Grosso, Sangiovetto Montanino, Sanvicetro dal Cannello Lungo di Predappio, Sanvicetro di Lamole, Sanvicetro di Romagna, Sanvicetro Dolce, Sanvicetro Gentile, Sanvincetro, San Zoveto, Sanzoveto, Tignolo, Tipsa, Toustain, Uva Abruzzi, **Uva Tosca**, Uvetta

Twenty Clones: Sangiovese FPS 02, 04-10, 12-15, 17-21, 23, 24, 26.

Grapevine Family, Genus, Species, and Varieties

Sauvignon Blanc – White grape. Dry, crisp white varietal with high acidity. Can take on many different identities in France, South Africa, New Zealand and United States.

Origin: France

Synonyms: Beyaz Sauvignon, **Blanc fumé**, Bordeaux bianco, Champagne, Douce blanche, Feher Sauvignon, Feigentraube, Fié, Fié dans le Neuvillois, **Fumé**, **Fumé blanc**, Genetin, Gentin à Romorantin, Melkii Sotern, Muskat Silvaner, **Muskatsilvaner**, Painechon, Pellegrina, **Petit Sauvignon**, Picabon, Piccabon, Pinot Mestny Bely, Pissotta, Puinechou, Punechon, Qunichon, Sampelgrina, Sauternes, Sauvignon fumé, Sauvignon gros, Sauvignon jaune, Sauvignon petit, Sauvignon vert, Savagnin blanc, Savagnin Musqué, Savignon, Sciampagna, Servanien, Souternes, Sovinak, Sovinjon, Sovinon, Spergolina, Surin, Sylvaner Musqué, Uva Pelegrina, and Zoeld Ortlibi.

Twenty-two Clones: Sauvignon Blanc FPS 01, 06, 07, 14, 17, 18, 20-31. ENTAV-INRA® 241, 376, 530, & 906.

Schioppettino – Black grape. Most known in the region of Colli Orientali in Friuli where it produces spicy wines similar to Syrah.

Origin: Italy

Synonyms: Pocalza, Ribolla nera, Schiopettino, **Schioppettino**, and Scoppiettino

One Clone: Schioppettino FPS 02

Sémillon – White grape. Nutty and rich grape that produces amazing dessert wines in Sauternes and quite fragrant dry wines in Bordeaux. Australia has made progress with Semillon as well.

Origin: France

Synonyms: Barnawartha Pinot, Blanc doux, Blanc Semillon, Boal, Chevrier, Colombar, Colombarride, Colombier, Goulon blanc, Goulou blanc, Green Grape, Greengrape, Groendruif, Gros Semillon, Hunter River Riesling, Madeira, Malaga, Mances blanc, Mansois blanc, Monsois blanc, Petit Semillon, Saint-Emilion, Sauternes, Semijon, Semilao, Semilhao, Semillion, Sémillon, Sémillon Crucillant, Sémillon Feher, Sémillon Muscat, Sémillon roux, Sercial, Sotern, St. Emilion, and Wynecruif.

Eleven Clones: Sémillon FPS 02-07, 12-15. ENTAV-INRA® 173.

Grapevine Family, Genus, Species, and Varieties

Sylvaner – White grape. Fairly common varietal in Alsace, Germany, and Switzerland.

Origin: Austria

Synonyms: Arvine, Arvine grande, Augustiner Weiss, Beregi Szilvani, Boetzing, Cilifantli, Cinifal Zeleny, Clozier, Cynifadl Zeleny, Cynifal, Esterreicher, Fliegentraube, Franken Riesling, Frankenriesling, Frankentraube, Fueszeres Szilvani, Gamay blanc, Gentil vert, Grande Arvine, Gros Plant du Rhin, Gros Rhin, Gros Riesling, Gros-Rhin, Gruber, Gruenedel, Gruenfraenkisch, Grüner Silvaner, Grüner Sylvaner, Grüner Zirfahndler, Haeusler Schwarz, Johannesberger, Johannisberg, Mishka, Momavaka, Monterey Riesling, Moravka, Movavka, Muschka, Mushza, Musza, Nemetskii Rizling, Öesterreicher, Öestreicher, Pepitraube, Pepltraube, Picardon blanc, Picardou blanc, Plant du Rhin, Raisin d'Autriche, Rhin, Rundblatt, Salfin, Salfine Bely, Salvaner, Salviner, Scharvaner, Scherwaner, Schoenfeilner, Schwabler, Schwaebler, Schwuebler, Sedmogradka, Sedmogradska Zelena, Selenzhiz, Selivan, Silvaner, Silvaner bianco, Silvaner blanc, Silvaner gruen, Silvani Zeleni, Sylvania, Silvanske, Silvanske Zelene, Sonoma Riesling, Sylvan Zeleny, Sylvaner B2, Sylvander B8, Sylvaner verde, Sylvaner vert, Sylvanertraube, Szilvani Feher, Szilvani Zold, Tschafahner, Yesil Silvaner, Zelena Sedmogradka, Zelencic, Zeleny, Zierfandler, Zierifandel, Zinifal, Zoeld Szilvani, and ZoeldsilvaniSilvaner.

Two Clones: Sylvaner B8 FPS 08 & 12.

Syrah – Black grape. Grown all over the world, this varietal can take on many identities. Climate plays a large part in its phenolic development.

Origin: France

Synonyms: Antournerein, Antournerein noir, Anzher Muskatnyi, Balsamina, Biaune, Blauer Syrah, Bragiola, Candive, Damaszener blau, Di Santi, Entourneirein, Entournerin, Ermitage, Hermitage, Hignin noir, Marsanne noir, Neretto di Saluzzo, Petit Syrah, Petite Sirrah, Petite Syras, Plant de la Bianne, Plant de la Biaune, Schiras, Sereine, Serene, Serine, Serine noir, Serinne, Sevene, Shiras, **Shiraz**, Shyrac, Sirac, Sirah, Sirah Marsanne noir, Syra, Syrac de l'Ermitage, and Zizak.

One Clone: Syrah FPS 04-16. ENTAV-INRA® 99, 100, 300, 471, 525, & 877.

Tannat – Black grape. High in tannins and extract. One of the varietals used to produce Madiran in Southeast Bordeaux.

Origin: France

Synonyms: Harriague, Moustron, Moustroun, Tannat Gris

Three Clones: Tannat ENTAV-INRA® 474, 717, 794.

Grapevine Family, Genus, Species, and Varieties

Tempranillo - Black grape. Main varietal in Rioja, Ribera del Duero, and Toro. Creates age-worthy earthy wines.

Origin: Spain.

Synonyms: Aldepenas, Aragones, Aragónéz, Aragónéz de Ferra, Aragónéz de Elvas, Arganda, Arinto Tinto, Cencibel, Cencibera, Chinchillana, Chinchillano, Chinchilyano, Cupani, Escobera, Garnacho Fono, Grenache de Logrono, Jacibiera, Jacivera, Juan Garcia, Negra de Mesa, Ojo de Liebre, Olho de Lebre, Sensibel, Tempranilla, Tempranillo de la Rioja, Tempranillo de Perralta, Tempranillo de Rioja, Tempranillo de Rioza, Tinta Aragónéza, Tinta Aragónés, Tinta de Santiago, Tinta de Toro, Tinta del País, Tinta do Inacio, Tinta Monteiro, Tinta Roríz, Tinta Roríz da Penajola, Tinta Santiago, Tinto Aragon, Tinto de la Rioja, Tinto de Madrid, Tinto de Rioja, Tinto de Toro, Tinto del País, Tinto Fino, Tinto Fino Ull de Llebre, Tinto Madrid, Tinto País, Tinto Ribiera, Tinto Riojano, Ull de Llebre, Valdepeñas, Valdepenhas, Verdiell, and Vid de Aranda.

Twenty Six Clones: Tempranillo FPS 02. PLANSEL® 224 & 232. Tempranillo FPS 03, 05, 07, 11, 12, 15-20. ENTAV-INRA® 770 & 776.

Tocai Friulano – White grape. Found in great forms in Colli Orientali, Grave del Friuli and Collio.

Origin: Italy

Synonyms: Blanc doux, Cinquien, Istarski Tokay, Malaga, Mosler, Sauvignon de la Correze, Sauvignon gros, Sauvignon à gros grains, Sauvignonasse, Sauvignonazz, **Sauvignon vert**, Tocai bianco, Tocai Italico, Tokai Italiano, Tokay, and Trebbianello.

One Clone: Tocai Friulano FPS 01

Touriga Franca – Black grape. Touriga Francesa was officially renamed to Touriga Franca in Portugal in 2000. Used in the production of port wine.

Origin: Portugal

Synonyms: Albino de Souza, Esgana Cão, Rifete, Touriga Francesa, Tourigo Frances

Touriga Nacional - Black grape. Used in the production of port wine.

Origin: Portugal

Synonyms: Bical Tinto, Mortagua, Mortagua Preto, Preto Mortagua, Touriga, Touriga Fina, Tourigao, Tourigo Antigo, Tourigo do Dao, Turiga

Nine Clones: Touriga Nacional FPS 01-05. PLANSEL® 301, 302, & 308.

Grapevine Family, Genus, Species, and Varieties

Traminer – White grape. See Gewurztraminer.

Origin: Italy

Synonyms: Aida, Auvernat blanc, Blanc Brun, Blanc Court, Bon Blanc, Edel Traube, Edler Weiss, Feuille Ronde, Forment, Formentin, Formentin blanc, Fourmenteau, Fraentsch, Fromente, Fromente blanc, Fromenteau, Gelbedler, Gentil blanc, Gewürztraminer, Gruenedel, Heida, Malvoisie, Milleran, Nature, Naturel, Noble vert, Paien, Princ, Princ Bily, Printsch grau, Ryvola Bila, Sauvagneux, Sauvagnien, Sauvagnin, Sauvagnun, Sauvanon, Sauvoignin, Savagnin, Savagnin blanc, Savagnin Jaune, Savagnin rose, Savagnin vert, Savoignin, Schleitheimer, Servoignier, Servoyen blanc, Svenie, Traminer d' Ore, Traminer Weiss Vigne blanche, Vigne du Marechal, Weiss Frensch, Weissedler, Weisser Traminer, Weisskloevner

One Clone: Traminer FPS 01

Trebbiano – White grape.

Origin: Italy

Synonyms: Albano, Biancame, Biancone, Blanc Auba, Blanc Bacca, Blanc de Cadillac, Blancoun, Bobiano, Bonebeou, Boriano, Boua, Bouan et Beou, Bragrunha, Branquinha, Brocanico, Bubbiano, Buriano, Buzzetto, Cadillac, Cadillate, Castelli, Castelli Romani, Castillone, Chatar, Chator, Clairette d'Afrique, Clairette de Vence, Clairette Ronde, Coda di Cavallo, Coda di Volpe, Douradina Branco, Douradinha, Elba, Engana Rapazes, Espadeiro Branco, Eugana Repazes, Falanchina, Greco, Gredelin, Hermitage White, Juni Blan, Lugana, **Malvasia Fina**, Morterille blanche, Muscadet, Muscadet Aigre, Padeiro Branco, Paduro Branco, Passerena, Passerina, Perugino, Procanico, Procanico dell Isola d'Elba, Procanico Portoferraio, Queue de Renard, Rocanico, Romani, Rossan de Nice, Rossetto, Rossola, Rossula, Roussan, Rousseau, Rusciola, Saint Émilion, Saint Émilion des Charentes, Saint Émillion, Santoro, Shiraz White, Spoletino, St.-Émilion, Talia, Thalia, Trebbianello, Trebbiano della Fiamma, Trebbiano di Cesena, Trebbiano di Cesene, Trebbiano di Empoli, Trebbiano di Lucca, Trebbiano di Tortona, Trebbiano di Toscano, Trebbiano Fiorentino, Trebbiano Toscano, Trebbianone, Tribbiano, Tribbiano Forte, Turbiano, Ugni, Uva bianca, and **Ugni blanc**.

Three Clones: Trebbiano Toscano FPS 01-03

Treixadura – White grape. Blending grape.

Origin: Portugal/Spain

Synonyms: Teixadura blanca, Tragadura, Trajadura, Treixadura, Trinca Dente, **Trincadeira**, Trincadente, and Verdello Rubio.

Ugni Blanc – White grape. See Trebbiano.

Origin: Italy

Synonyms: Trebbiano

Verdejo – White grape. See Godello.

Origin: Portugal

Synonyms: **Godello**, Gouveio, Gouvio Real, Verdelho de Madeira, Verdelho de Madere

One Clone: Verdelho FPS 02, 06, & 07.

Grapevine Family, Genus, Species, and Varieties

Vermentino - White grape.

Origin: Italy

Synonyms: Agostenga, Brustiano bianco, Carbes, Carbesso, Favorita, Formentino, Fourmentin, Garbesso, Grosse Clarette, **Malvasia bianca**, Malvasia grossa, Malvoisie à Gros Grains, Malvoisie Corse, Malvoisie de Corse, Malvoisie Précoce d'Espagne, Piccabon, Pigato, Rolle, Sibirkovski, Uva sapaiola, Uva Vermentino, Varlentin, Varresana bianca, Vennentino, Veressana bianca, Verlantin, Vermentino bianco, Vermentino Favorita, and Vermentino Pigato.

Vernaccia - White grape.

Origin: Italy

Synonyms: Bergamasca, Cranaccia, Garnaccia, Granazza, Guarnaccia, Varnaccia, Vernaccia Austeria, Vernaccia di Oristano bianca, **Vernaccia di San Gimignano**, Vernatsch weiss, and Vernaccia bianca.

One Clone: Vernaccia FPS 01

Viognier – White grape.

Origin: France

Synonyms: Barbin, Bergeron, Galopine, Greffou, Petit Viognier, Petit Vionnier, Picotin blanc, Rebelot, Viogne, Vionnier, and Vugava Bijela.

One Clone: Viognier FPS 01-05. Viognier ENTAV-INRA 642.

Viura – White grape. See Macabeo. The most-planted white variety in northern Spain. **Not related to Xarello in Penedes.**

Origin: Spain

Synonyms: Alcanol, Alcanon, Blanca de Daroca, Charas blanc, Forcalla, Gredelin, Lardot, Listan Andaluschii, Listan Andaluzskii, Lloza, Macaban, **Macabeo**, Macabeu, Maccabéo, Maccabeou, Maccabeu, Makkobeo, Malvoisie, Provensal, Queue de Renard, Rossan, Subirat, Tokay, **Ugni blanc**, Viuna, and Xarello.

Xarello – White grape. Most commonly found in Penedès where it goes into cava blends with Parellada and Macabeo. **Xarello is not related to Viura or Jaen blanco.**

Origin: Spain

Synonyms: Cartoixa, Cartuja, Cartuxa, Moll, Pansa, Pansa blanca, Pansal, Pansalat, Pansalet, Pansar, Pensal, Prensa blanco, Vinate, Vinyater, Xarel.lo, Xarel-lo, and Xarelo.

Clone: Xarello FPS 02

Zinfandel – Black grape. See Primitivo.

Origin: Croatia

Synonyms: Crljenak kaštelanski, Morellone, Pribidrag, Primaticcio, Primativo, **Primitivo**, Primitivo di Gioia, Uva della Pergola, Uva di Corato, Zenfendel, and Zinfandal.

Twenty Clones: Zinfandel FPS 01A, 02, 03, 06, 08-19, 21, 22, 24, 28, 29.