

# GSM: Grenache-Syrah-Mourvedre Around the World

Presented by

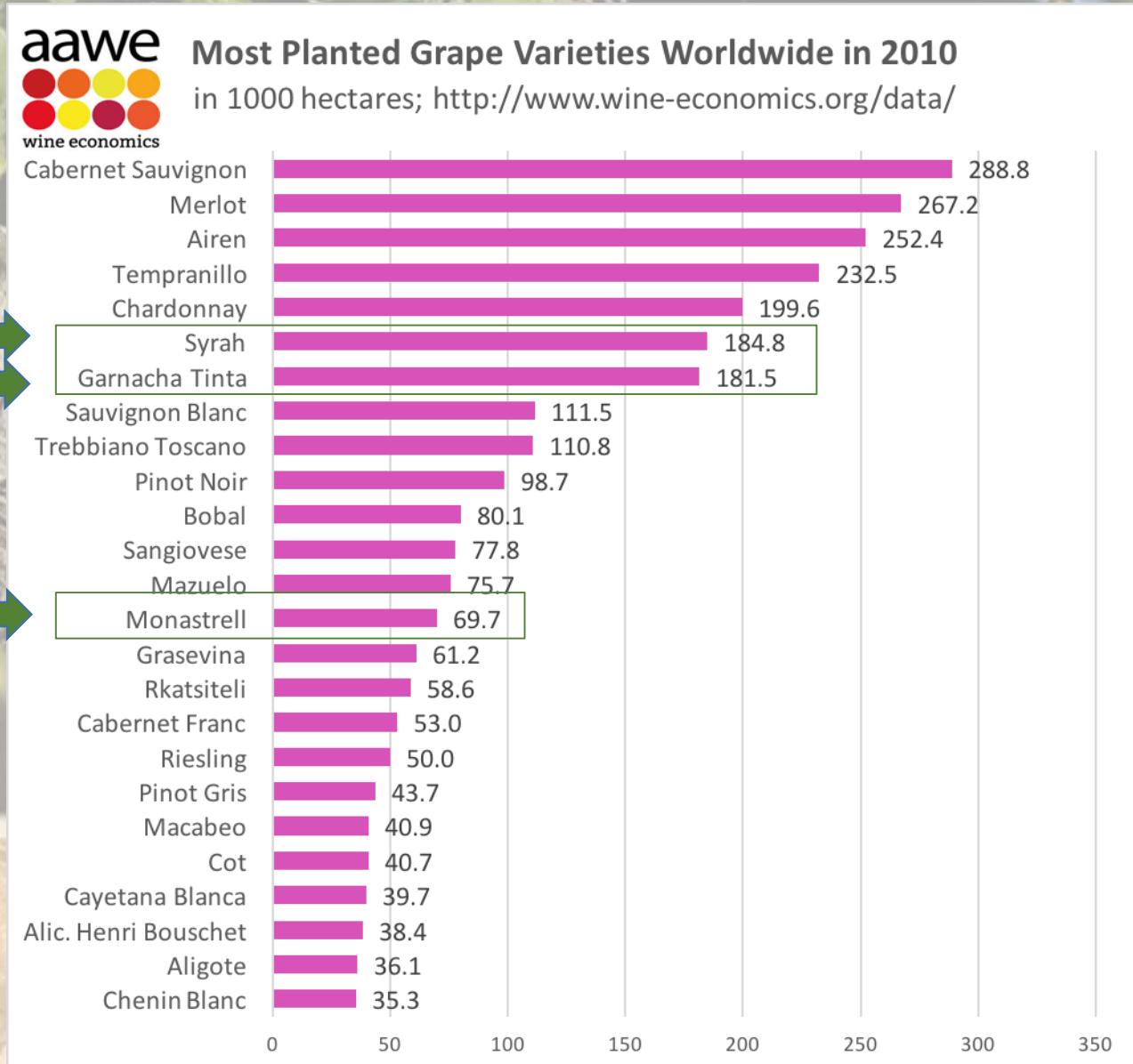
**Roger C Bohmrich MW**

August 2018

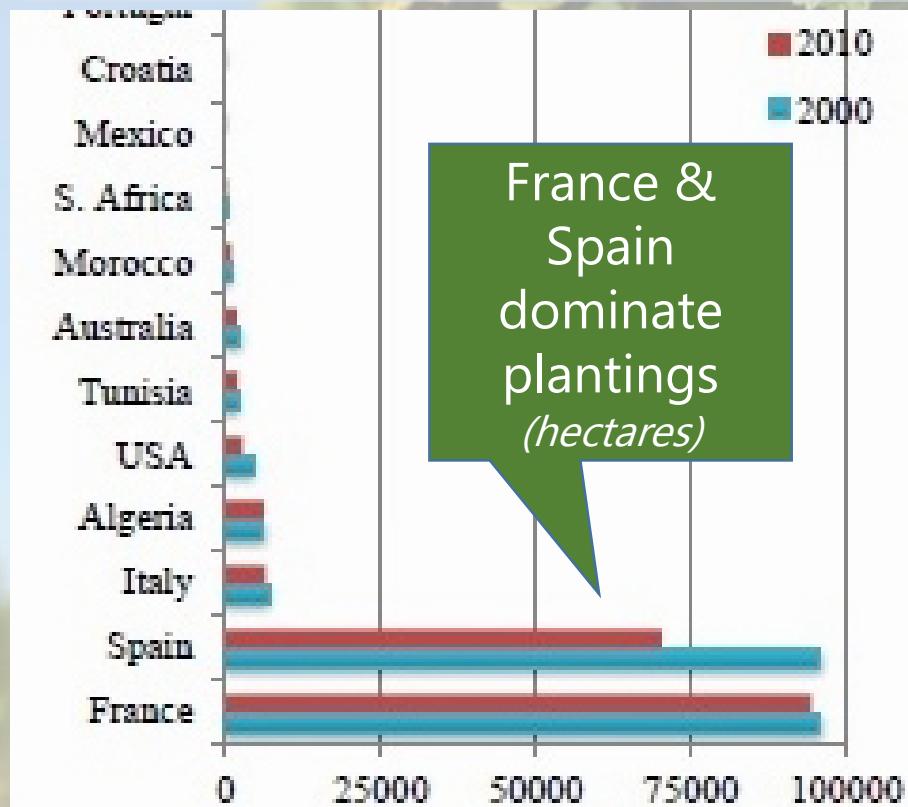
# Grenache-Syrah-Mourvedre: Global Presence

#6 Syrah 184,800 ha  
#7 Garnacha 181,500 ha

#14 Monastrell 69,700 ha



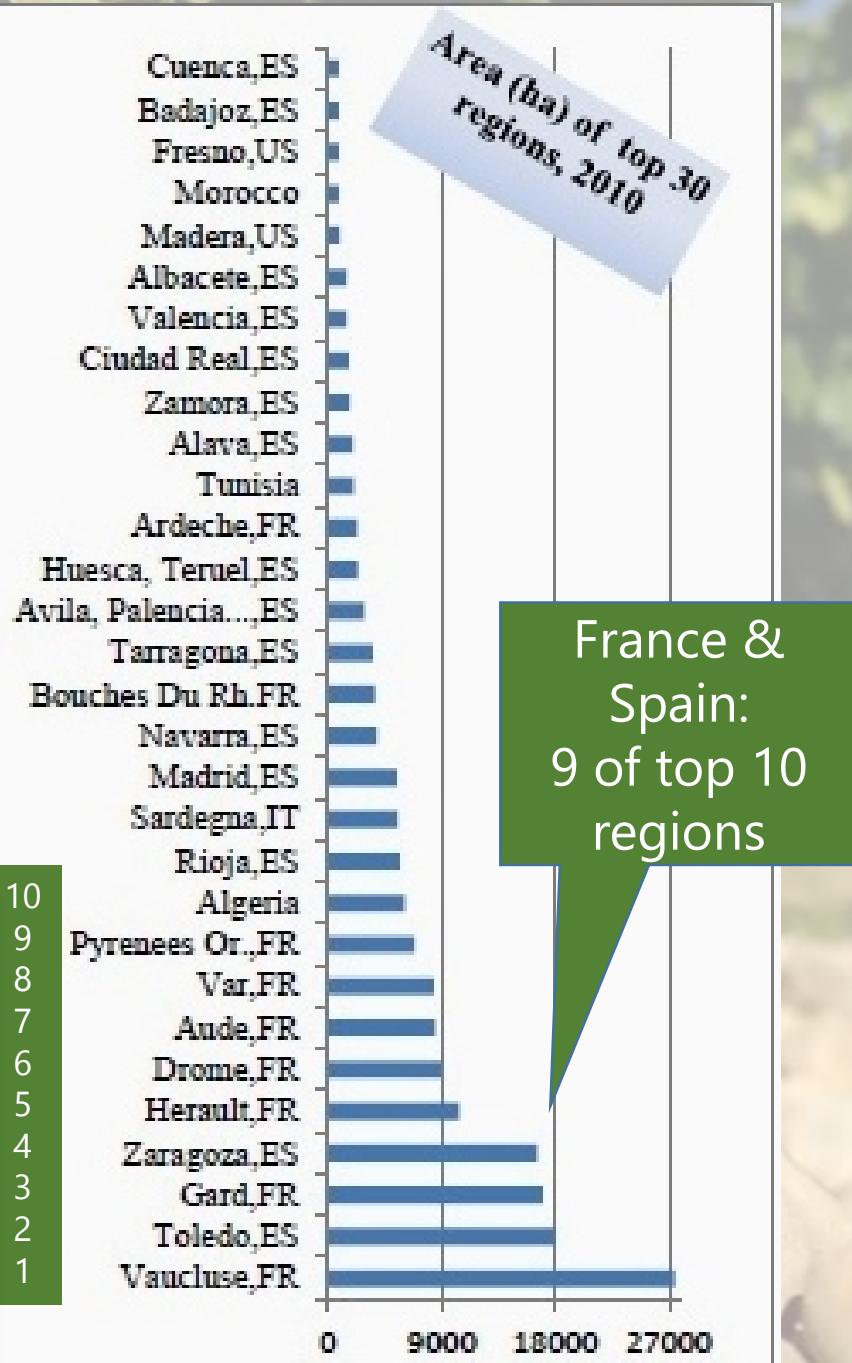
# Grenache: Where it's planted



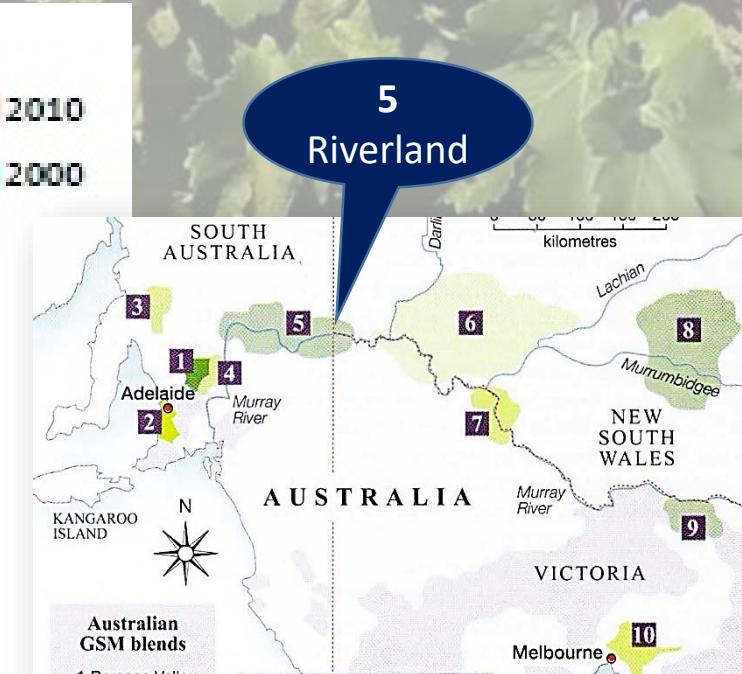
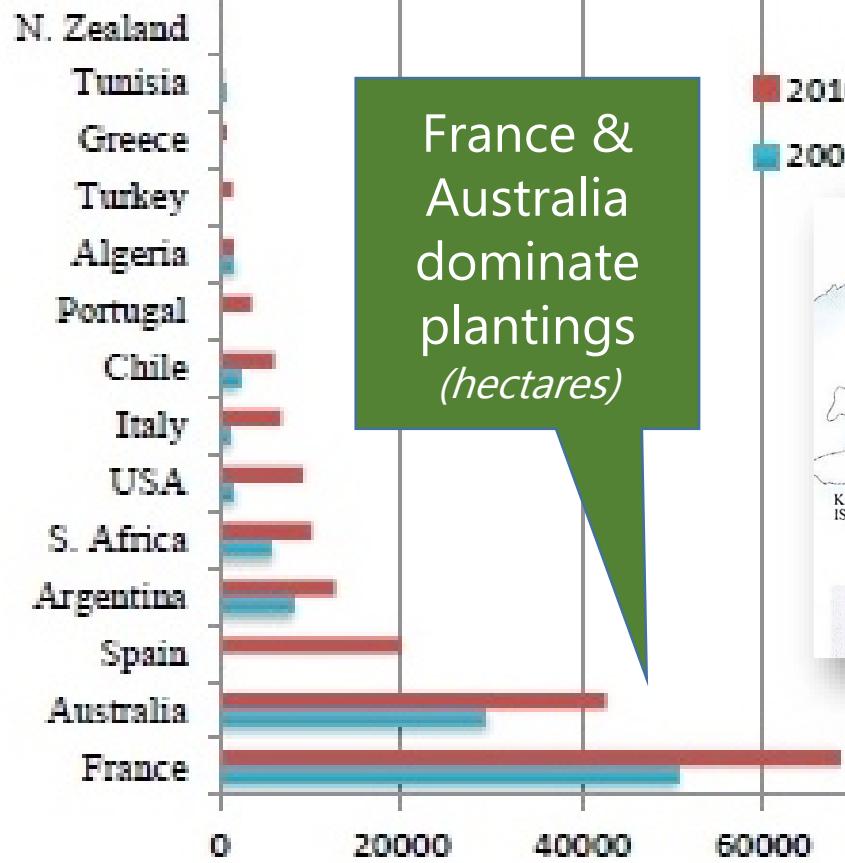
France &  
Spain  
dominate  
plantings  
(hectares)



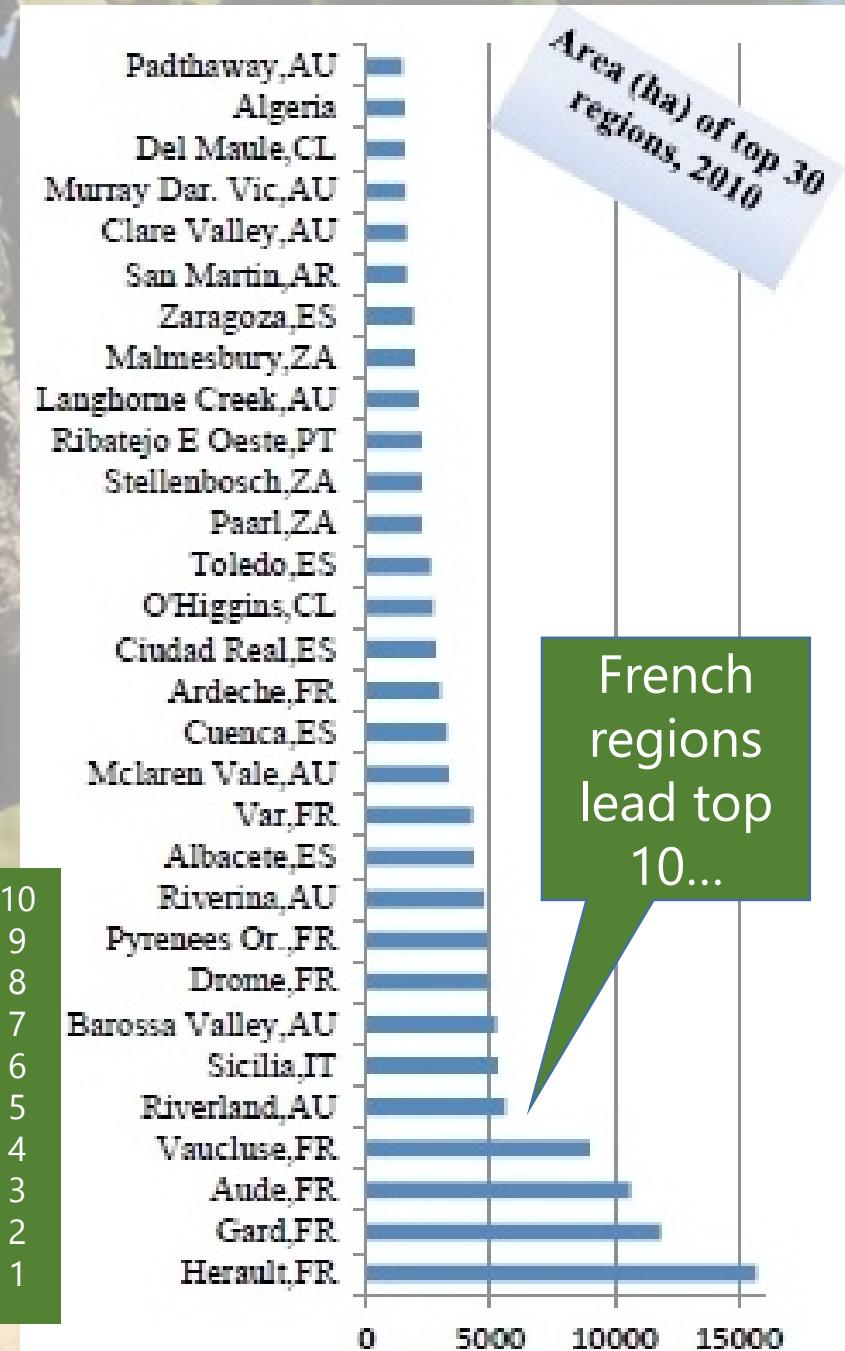
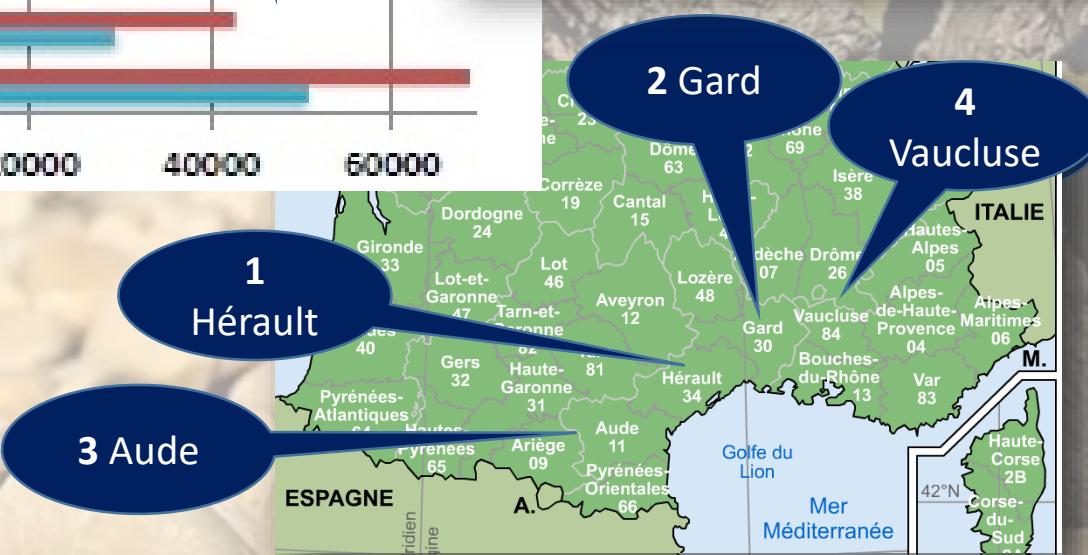
Source:  
University of  
Adelaide, Australia  
Wine Economics  
Research Centre  
[www.adelaide.edu.au](http://www.adelaide.edu.au)



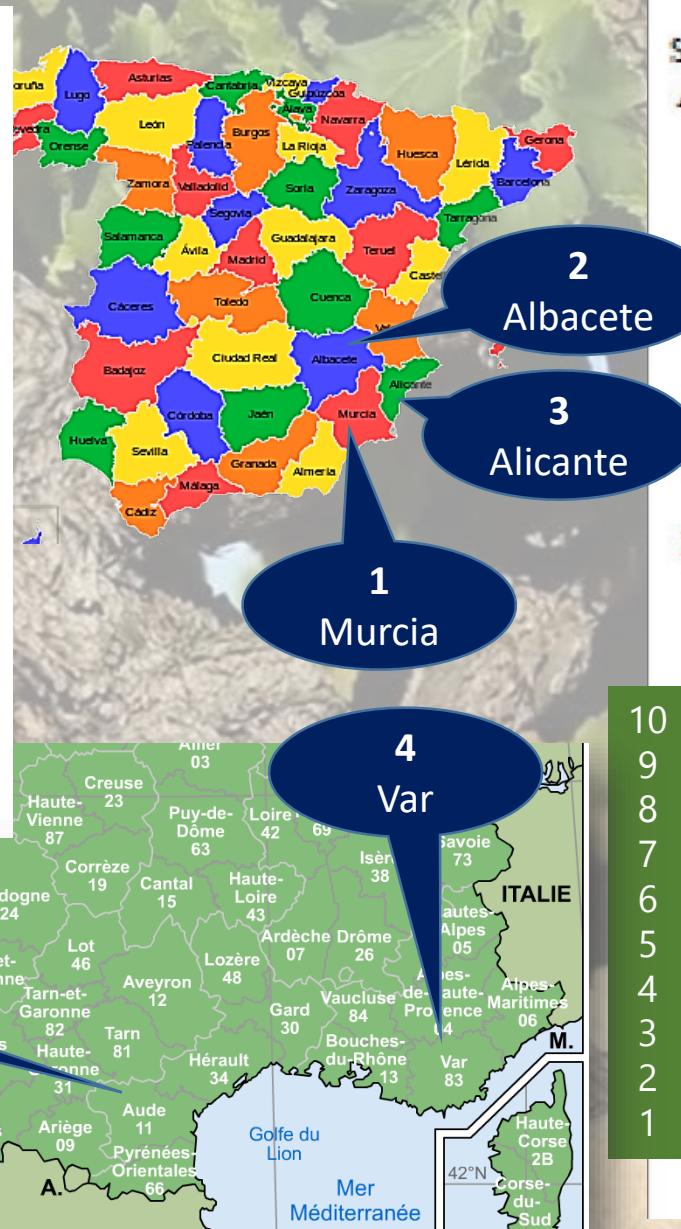
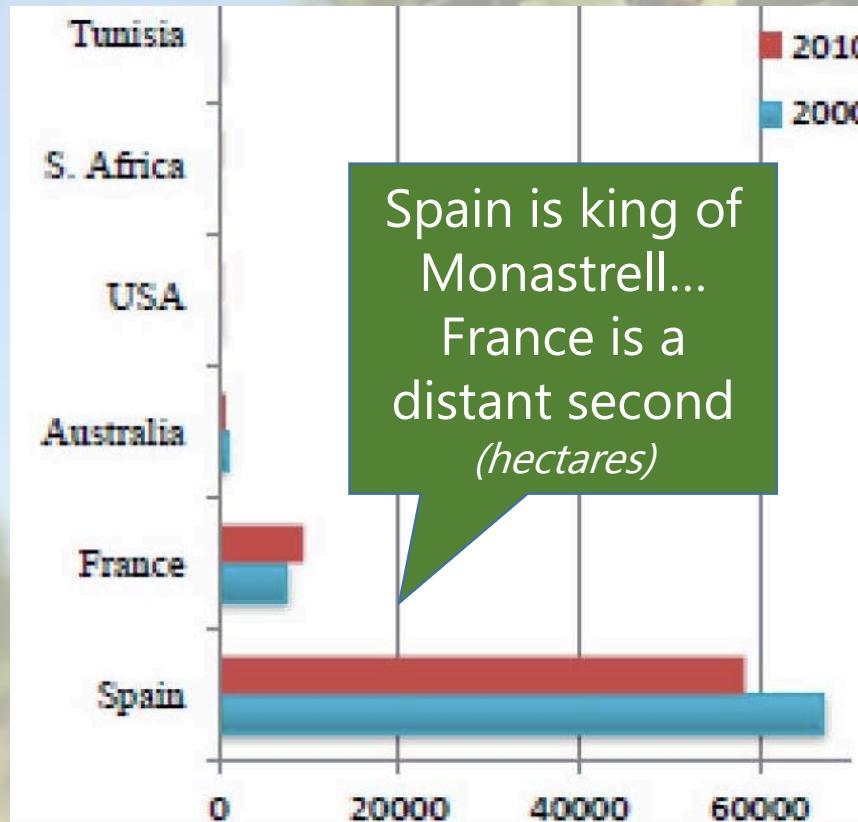
# Syrah: Where it's planted



Source:  
University of  
Adelaide, Australia  
Wine Economics  
Research Centre  
[www.adelaide.edu.au](http://www.adelaide.edu.au)

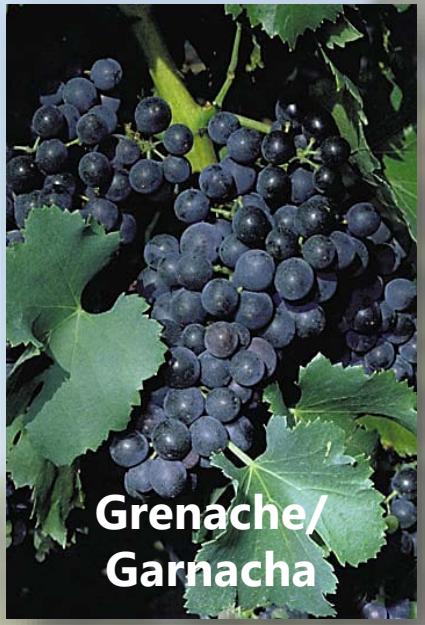


# Mourvedre: Where it's planted



Source:  
University of  
Adelaide, Australia  
Wine Economics  
Research Centre  
[www.adelaide.edu.au](http://www.adelaide.edu.au)

# GSM: Grape Profiles



**Grenache/  
Garnacha**

**(G)**

Spanish origin  
Vigorous, productive → for quality, yields must be limited (<35 hl/ha)  
Buds early but needs long growing season  
Suffers from *coulure* (infertile flowers) → short crops  
Prone to downy mildew, rot → ideal for hot, arid conditions  
Strong, upright canes allow for unsupported bush/gobelet training  
Produces high alcohol, low acid (low malic acid), moderately tannic wines w/low to moderate pigmentation  
Prone to oxidation  
Dominant grape in large majority of Southern Rhône red wines



**Syrah/Shiraz**

**(S)**

Native to SE France (Mondeuse blanche X Dureza)  
Vigorous vine & relatively early to ripen  
Needs trellis or stakes for support  
Produces wines with high/moderate tannin levels  
Generally densely pigmented wines of moderate to high alcohol  
Resistant to oxidation/tendency to express reductive aromas  
Exclusive red grape of the Northern Rhône (Hermitage, Côte-Rôtie, etc.)  
Complementary & frequent blending partner of Grenache in Southern Rhône & other regions

# GSM: Grape Profiles

(M)



Mourvèdre/Monastrell/Mataro

Spanish origin

Late ripening, requires heat & light to ripen fully

Wind sensitive

Densely pigmented wines,  
high acidity & tannin

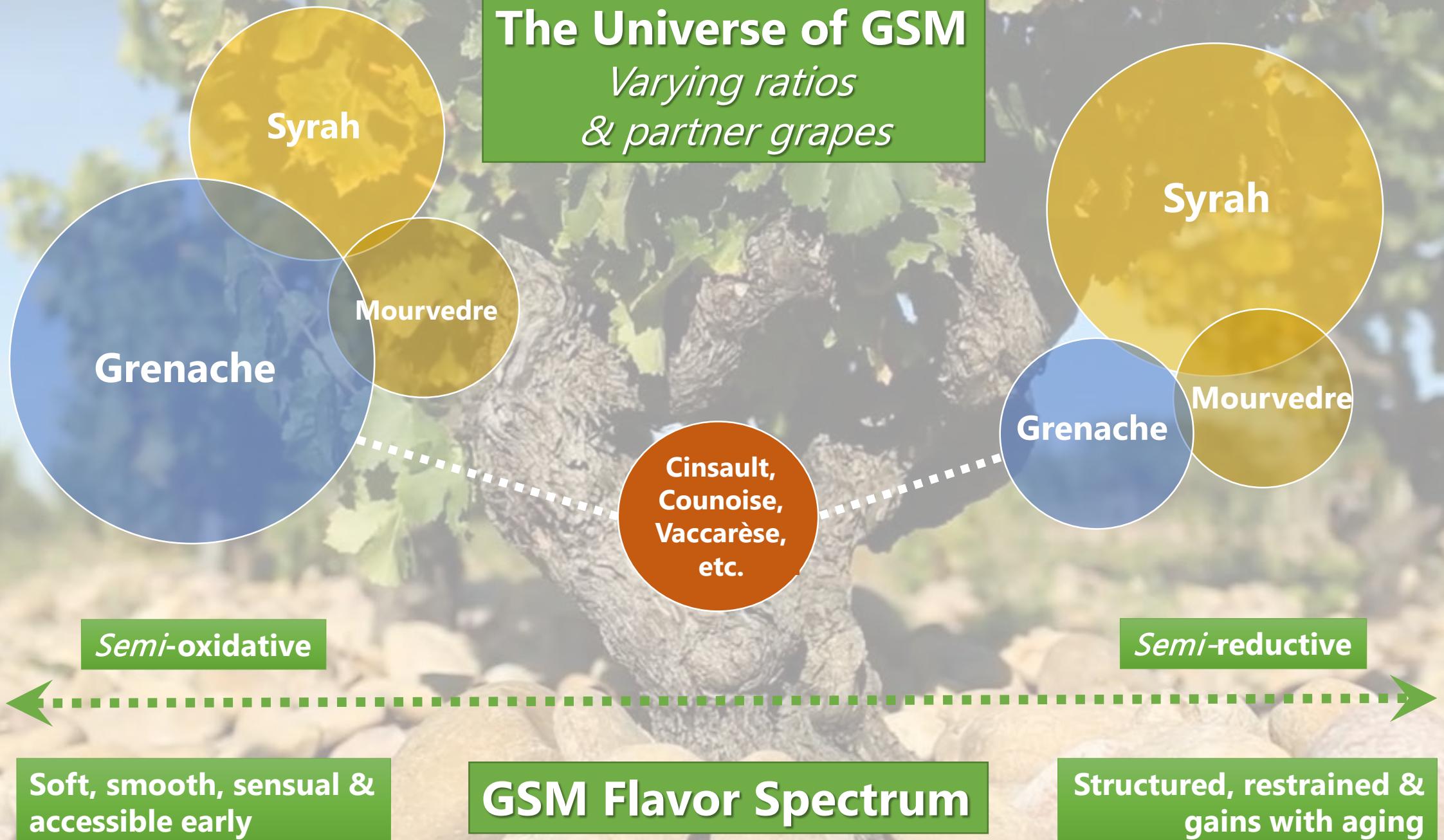
Resists oxidation

Influential if typically minor  
role in Southern French blends

May have larger share in individual  
GSM wines depending on maker  
& region

# The Universe of GSM

*Varying ratios  
& partner grapes*



# DATA SHEET-"GSM: Grenache-Syrah-Mourvedre Around the World" August 2018-R Bohmrich MW

## Page One

Yields: hl/ha=hectoliters/hectare - mt/ha=metric tonnes (1000kg)/hectare - t/a=US tons (907kg)/acre

		No. 1	No. 2	No. 3	No. 4	No. 5
<b>Producer</b>		Domaine d'Aupilhac	Black Elephant Vintners	Coyote Canyon Winery	Robert Oatley Vineyard	D'Arenberg
<b>Wine/Vintage</b>		Les Cocalières 2015	Nicholas Red 2015	Tres Cruces 2012	"Signature" GSM 2015	Ironstone Pressings 2013
<b>Origin</b>	<b>Country</b>	France	South Africa	USA	Australia	Australia
	<b>Region</b>	Languedoc	Western Cape	Washington State	South Australia	South Australia
	<b>District/appellation</b>	Montpeyroux	Franschhoek	Horse Heaven Hills	McLaren Vale	McLaren Vale
<b>Chemical analysis</b>	<b>Alcohol % by vol</b>	13	14	14.5	14	14.3
	<b>TA g/l tartaric</b>	5.47	5.4	6.4	5.67	7
	<b>RS g/l</b>	2	2.2	<2	0.86	0.8
	<b>pH</b>	3.68	3.56	3.68	3.53	3.45
<b>Vineyard</b>	<b>Type</b>	single vineyard	selection of sites	single vineyard	selection of sites	selection of blocks/fruit
	<b>Elevation in feet</b>	1,150	886 to 2,460	900 to 1,200	590 to 980	279 to 623
	<b>Exposure</b>	northwest	multiple	mostly southeast	multiple	multiple
<b>Geology/Soil</b>	<b>Top soil</b>	limestone	decomposed granite	loam, loess, sediments	loam	sand, loam
	<b>Parent rock</b>	basalt	granite	loam, sediments	sand, clay	sandstone, limestone, etc
<b>Vines</b>	<b>Clones</b>	selection massale	G:GN70C/S:SH9/M:n/a	G:3/S:TC/M:4	n/a	G:old/S:1912,1654, BVR30
	<b>Root</b>	3309, 101-14	G:R99/S:US8/7/M:R99	own roots	n/a	own roots
	<b>Average age</b>	13-16 years	10-15 years	6-9 years	15-30 years	42-90 years (aver. 78)
<b>Canopy/Water Management</b>	<b>Training</b>	gobelet	Perold 2-wire	bilateral cordon	mostly VSP	bush, VSP, double trellis
	<b>Pruning</b>	spur	spur	spur	hand	spur
	<b>Irrigation</b>	no	drip if needed	drip	yes	in extreme conditions
<b>Harvest</b>	<b>Hand/machine</b>	hand	hand	hand for this lot	99% machine	hand & machine
	<b>Yield</b>	G:25/S:29/M:32 hl/ha	G:6.5/S:7/M:6.5 mt/ha	G:4.2/S:3.8/M:4 t/a	est. 3 t/a average	G:14.1/S:25.4/M:10.4 mt/ha
<b>Farming practices</b>		biodynamic/organic	sustainable	sustainable	sustainable	sustainable/bio/organic
<b>Crush regime</b>		destem	destem/35% whole	destem	destem/whole berries	destem/crush/whole
<b>Yeast</b>		naturally occurring	naturally occurring	mixed cultures	natural/Rhone culture	culture
<b>Fermentation</b>	<b>Vessel</b>	stainless tank	foodgrade bins	1 ton macro bins/punch	65% open, 35% closed	open, foot treading
	<b>Temperature °F</b>	82.4	78.8 to 82.4	84	59 to 77	max 86
<b>Blending technique</b>		post-fermentation	co-fermented	post-maturation-14 mos	post-fermentation	post-maturation
<b>Final blend of wine % each variety</b>		S40, G30, M30	S45,Car 21,M20,G9,PS5	S42, M33, G25	G47, S46, M7	G67, S28, M5
<b>Maturation vessel/months of aging</b>		used French 700L/15	used French 500L/16	59g French,25% new/16	tank+French 225L/12	old French barriques/9
<b>Fining &amp; filtration</b>		none	unfined/lightly filtered	fined/cross flow	egg whites/μ 0.65-0.45	fined/filtered

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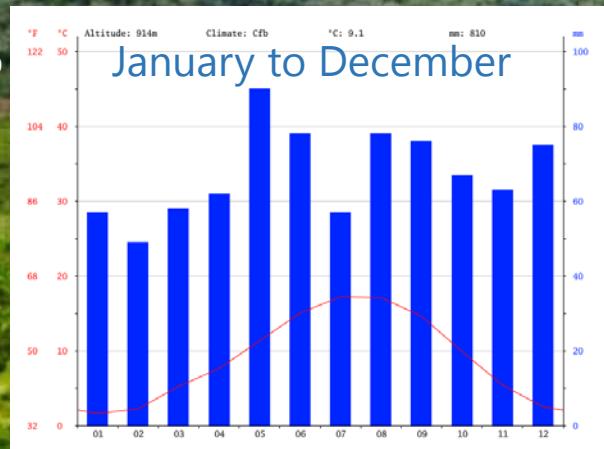
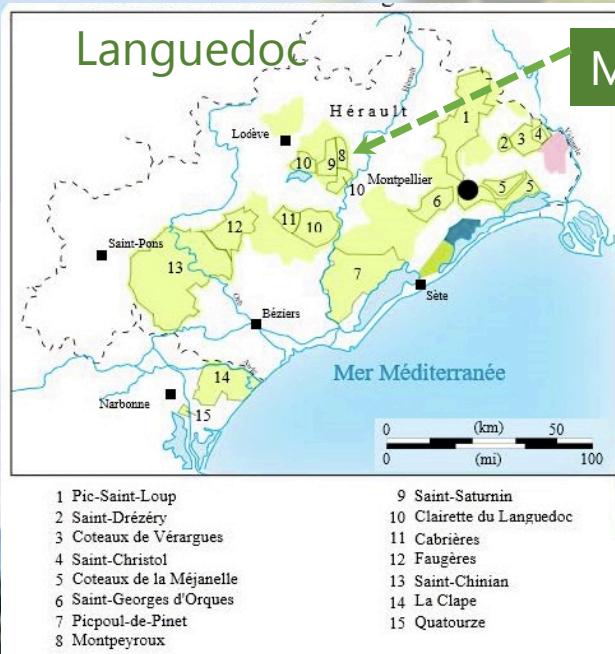
## Page Two

	No. 6	No. 7	No. 8	No. 9	No. 10
<b>Producer</b>	John Duval Wines	Torbreck Vintners	Tablas Creek Vineyard	Domaine de Mourchon	Château Mont-Redon
<b>Wine/Vintage</b>	Plexus 2014	The Steading 2015	Côtes de Tablas 2016	Châteauneuf-du-P 2015	Châteauneuf-du-P 2014
<b>Origin</b>	<b>Country</b>	Australia	Australia	USA	France
	<b>Region</b>	South Australia	South Australia	California	Rhône Valley
	<b>District/appellation</b>	Barossa Valley	Barossa Valley	Paso Robles-Adelaida	Southern Rhône-Cru
<b>Chemical analysis</b>	<b>Alcohol % by vol</b>	14.5	15	13.5	15
	<b>TA g/l tartaric</b>	5.7	6.02	5.5	5.2
	<b>RS g/l</b>	0.86	< 0.5	2	0.6
	<b>pH</b>	3.49	3.45	3.59	3.74
<b>Vineyard</b>	<b>Type</b>	selection of sites	selection of sites	selection of blocks	selection of sites
	<b>Elevation in feet</b>	820 to 1,214	590 to 984	1,400 to 1,600	164 to 328
	<b>Exposure</b>	multiple	E/NE to W	multiple	multiple
<b>Geology/Soil</b>	<b>Top soil</b>	clay	sand, clay, loam	silty clay, clay	galets, clay, sand
	<b>Parent rock</b>	limestone	limestone, sandstone	limestone	clay, limestone
<b>Vines</b>	<b>Clones</b>	mainly massal/S:1654	mainly massal/S:1654	G:A,B,C,D/S:A,D/M:A	n/a
	<b>Root</b>	own roots	own roots	1103P, 110R, own roots	n/a
	<b>Average age</b>	G:90/S:30/M:80 years	G:50+/S:20-100/M:50+	G:24/S:13/M:15/C:22 yrs	average 40 years
<b>Canopy/Water Management</b>	<b>Training</b>	G,M:bush/S:cordon	bilateral/G:also bush	mainly double cordon	gobelet (bush)
	<b>Pruning</b>	varied	cane & spur	spur & cane	spur
	<b>Irrigation</b>	G,M:no/S:yes	yes young vines/no old	93% very light, 7% no	drip for limestone only
<b>Harvest</b>	<b>Hand/machine</b>	mainly by hand	mainly by hand	by hand	by hand
	<b>Yield</b>	2-2.5 mt/a	G:3/S:4.5/M:5 mt/ha	G:4/S:2/M:3/C: 2 t/a	aver 25 hl/ha
<b>Farming practices</b>		mainly sustainable	sustainable, organic	sustainable, bio, organic	sustainable
<b>Crush regime</b>		mainly destem, crush	destem	destem	destem, optical sorting
<b>Yeast</b>		cultures	culture EC1118	naturally occurring	culture
<b>Fermentation</b>	<b>Vessel</b>	stainless tank	open stainless tank	stainless, wood vat	stainless tank
	<b>Temperature °F</b>	71.6 to 77	68 to 77	67 to 80	78 to 82.4
<b>Blending technique</b>		most post-aging + co-fer	post-maturation	post-maturation	post-ferment & maturation
<b>Final blend of wine % each variety</b>		S47, G32, M21	G76, M13, S11	G55,S25,M13,Counoise7	G70, M20, S10
<b>Maturation vessel/months of aging</b>		used French 300L/14	used French foudre/18	used French foudre/18	Fr foudre, demi-m/12
<b>Fining &amp; filtration</b>		unfined, light filtration	unfined, unfiltered	unfined, sterile	unfined, filtered $\mu$ 1.5

# Domaine d'Aupilhac Languedoc-Montpeyroux

## Les Cocalières 2015

Languedoc, France



Languedoc:  
GDD 3577 °F  
Region IV  
32" annual rainfall



40% Syrah  
30% Grenache  
30% Mourvèdre

AOC Languedoc:  
Max 70% one  
variety  
G-S-M min 40%



Cocalières @ 1,150 ft.,  
faces NW  
Limestone, basalt  
Biodynamic/  
certified organic  
Hand harvest  
15 mos. in demi-  
muids, none new  
Unfiltered, unfiltered

# Black Elephant Vintners

## Nicholas Red 2015

Franschhoek, South Africa



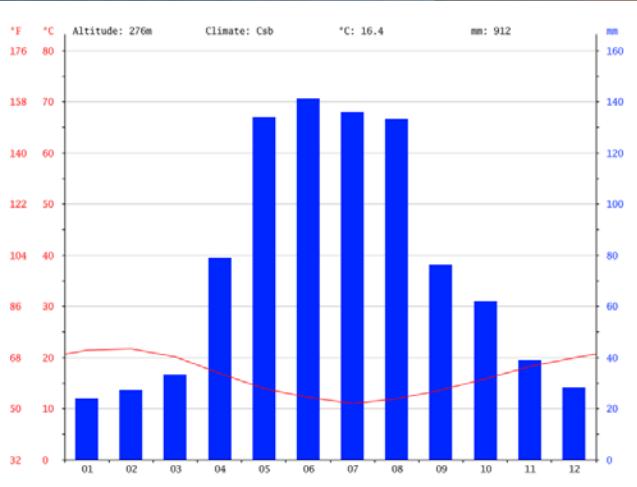
45% Syrah  
21% Carignan  
20% Mourvedre  
9% Grenache  
5% Petite Sirah



NICHOLAS  
RED

886 to 2,460 ft.  
Granite  
Sustainable  
Hand harvest  
Co-fermented  
1/3 whole bunches  
16 mos. in old  
500L French barrels

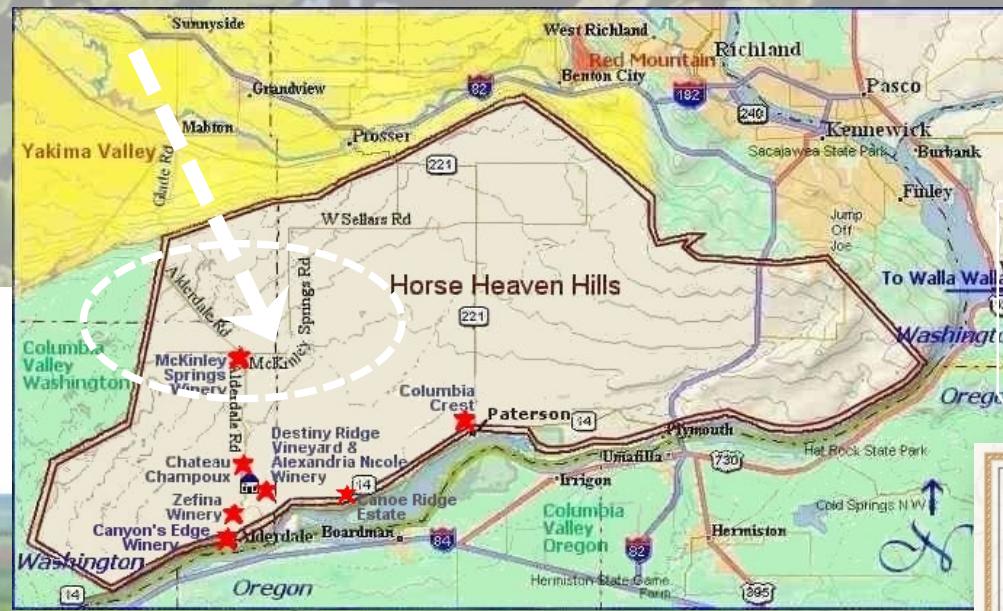
Franschhoek:  
GDD 3895 °F (est.)  
Region IV  
36" annual rainfall



# Coyote Canyon Winery

## Tres Cruces 2012

### Horse Heaven Hills, Washington State, USA



42% Syrah  
33% Mourvedre  
25% Grenache



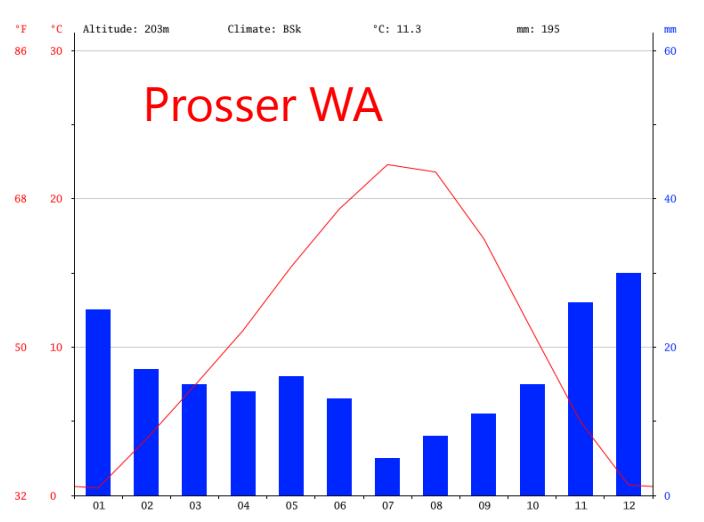
*Coyote Canyon*  
WINERY

2012  
TRES CRUCES  
RED WINE

HORSE HEAVEN HILLS  
COYOTE CANYON VINEYARD  
ALC 14.5% BY VOL

Prosser WA

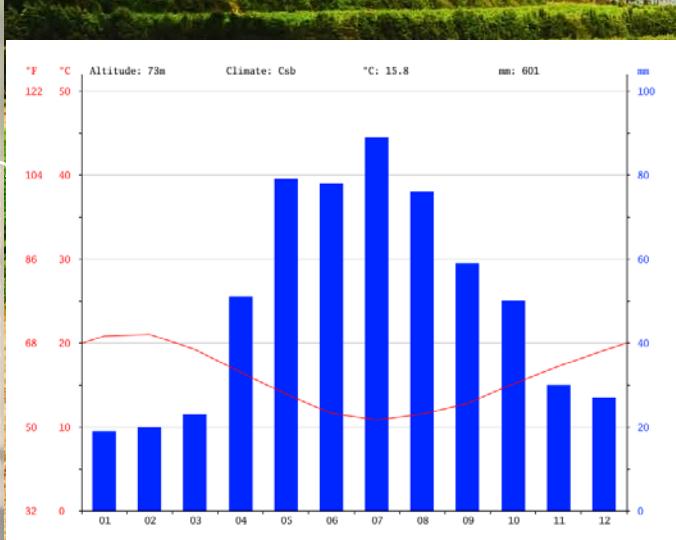
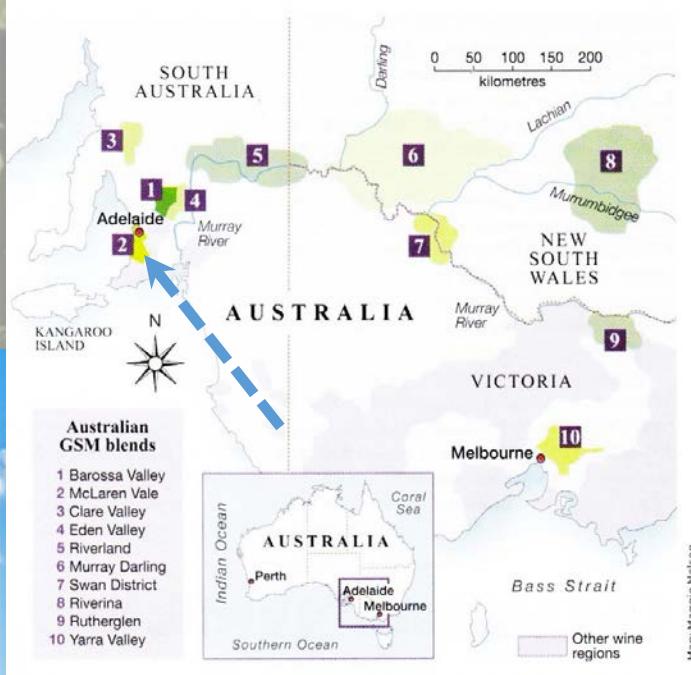
© Climate-data.org



Horse Heaven Hills:  
GDD 3038 °F  
Region III (low)  
8" annual rainfall

900 to 1,200 ft.  
Sandy loam, loess,  
Missoula Flood  
sediment  
Sustainable  
Hand harvest  
16 mos. in mainly  
French oak with  
American & Hungarian

# Robert Oatley Signature Series GSM 2015 McLaren Vale, Australia



McLaren Vale:  
GDD 3337 °F  
Region III  
MJT 70 °F  
24.5" annual rainfall



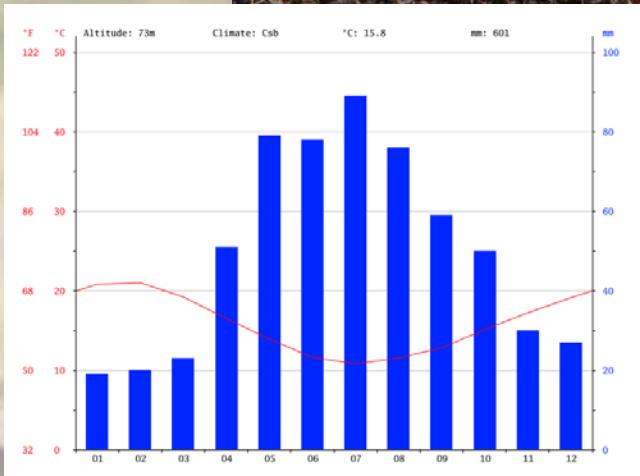
Loam over clay, sand  
Sustainable  
Machine harvest  
Whole berries  
Tank & 225L French  
barrels, 25% new

# D'Arenberg

## The Ironstone Pressings 2013

McLaren Vale, Australia

McLaren Vale:  
GDD 3337 °F  
Region III  
MJT 70° F  
24.5" Annual Rainfall



67% Grenache  
28% Shiraz  
5% Mourvedre

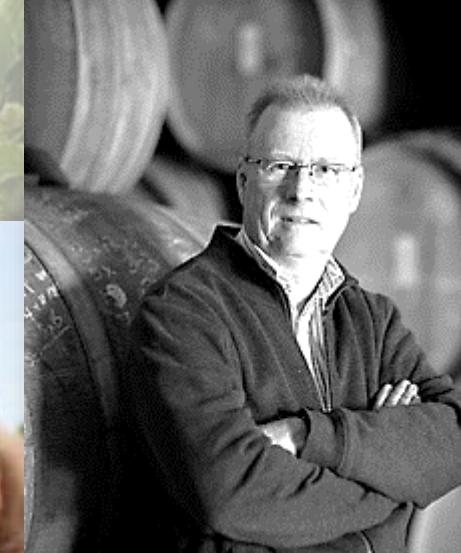
Mix of sustainable,  
organic &  
biodynamic  
Open fermenters  
Foot treading  
9 mos. in old French  
barriques  
Slightly higher  
acidity/lower pH than  
other GSM in this  
tasting



# John Duval Wines

## Plexus 2014

### Barossa Valley, Australia

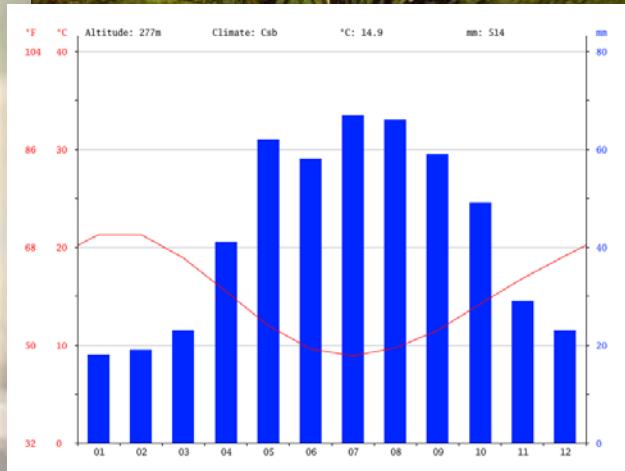


47% Syrah  
32% Grenache  
21% Mourvedre

Clay over limestone  
Partly organic &  
biodynamic  
Mainly hand harvest  
14 mos. in 300L  
French barrels, 10%  
new  
Unfined



# Torbreck The Steading 2015 Barossa Valley, Australia



Barossa Valley:  
GDD 3756 °F  
Region IV  
MJT 72° F  
21" Annual Rainfall

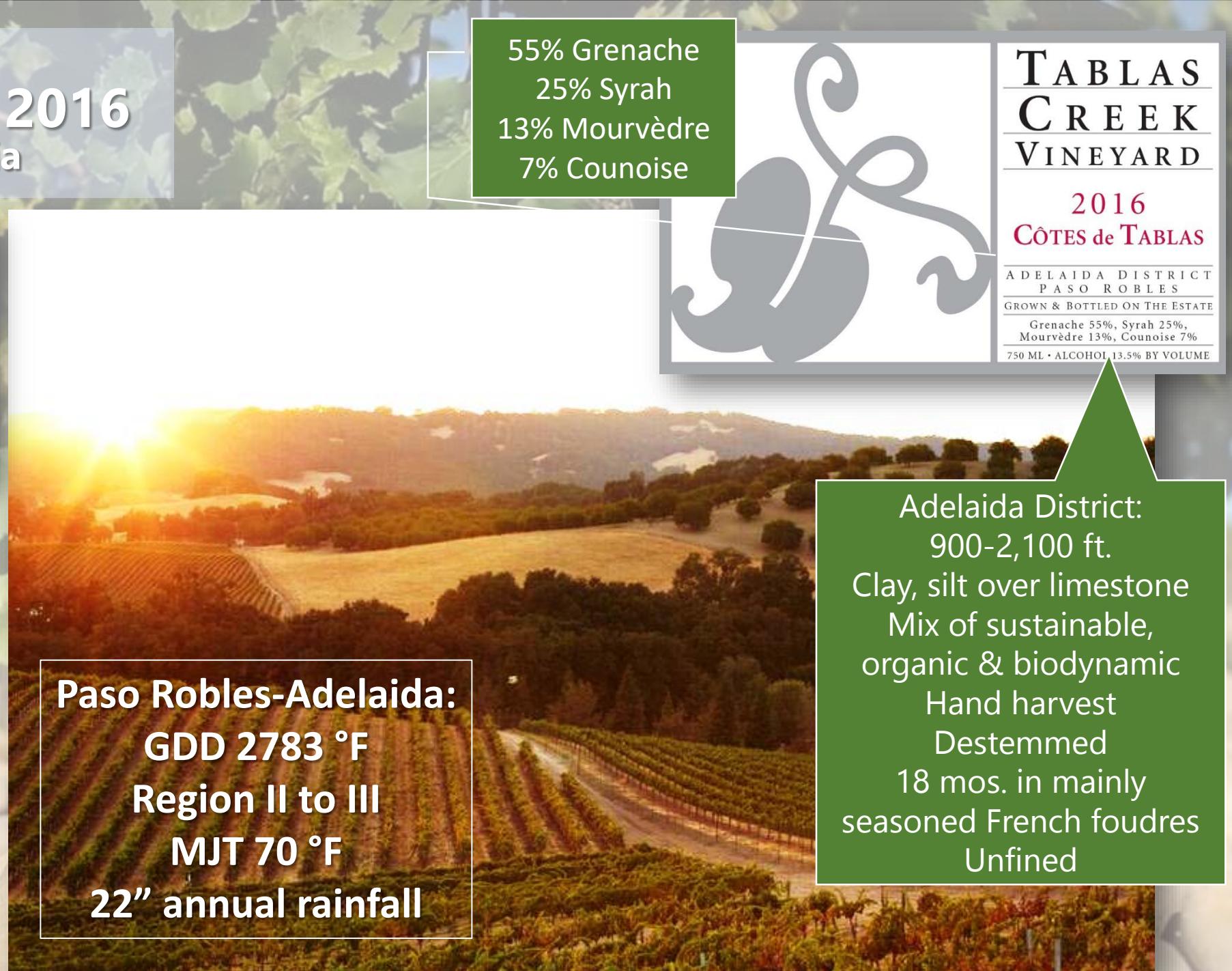
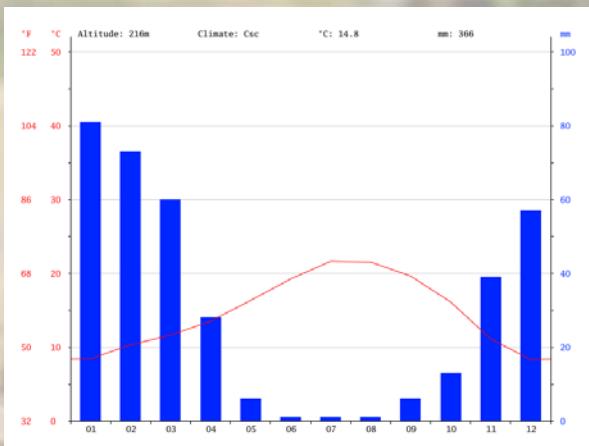


# Tablas Creek Côtes de Tablas 2016

Paso Robles, California



© Climate-data.org



55% Grenache  
25% Syrah  
13% Mourvèdre  
7% Counoise

**T A B L A S  
C R E E K  
V I N E Y A R D**

**2016  
CÔTES de TABLAS**

A D E L A I D A   D I S T R I C T  
P A S O   R O B L E S

G R O W N & B O T T L E D O N T H E E S T A T E

Grenache 55%, Syrah 25%,  
Mourvèdre 13%, Counoise 7%

750 M L • A L C O H O L 13.5 % B Y V O L U M E

**Paso Robles-Adelaide:**  
**GDD 2783 °F**  
**Region II to III**  
**MJT 70 °F**  
**22" annual rainfall**

Adelaide District:  
900-2,100 ft.  
Clay, silt over limestone  
Mix of sustainable,  
organic & biodynamic  
Hand harvest  
Destemmed  
18 mos. in mainly  
seasoned French foudres  
Unfined

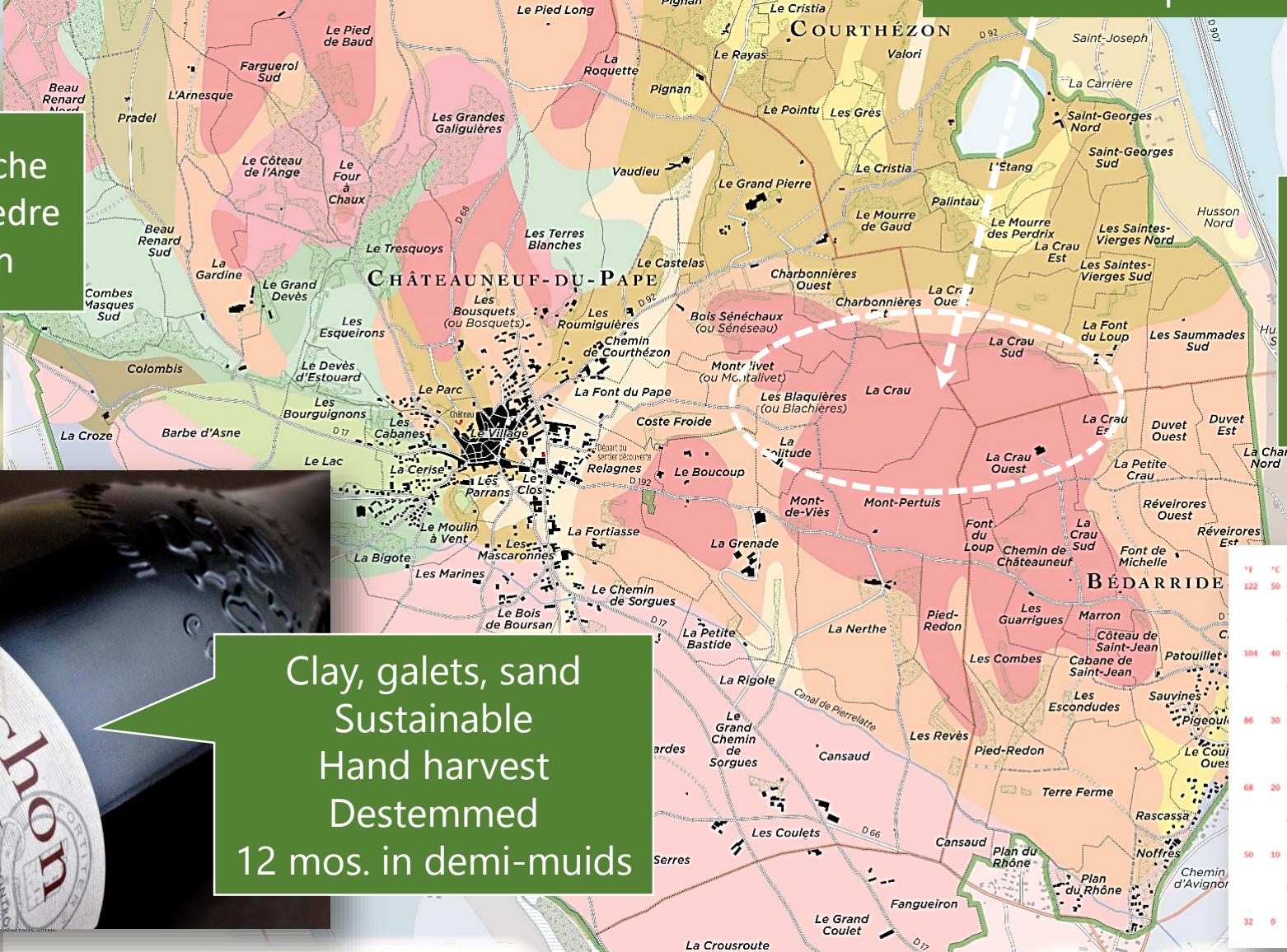
# Domaine de Mourchon

## Châteauneuf-du-Pape 2015

Rhône Valley, France

**La Crau plateau**  
Iron-rich red clay  
with thick deposit of galets

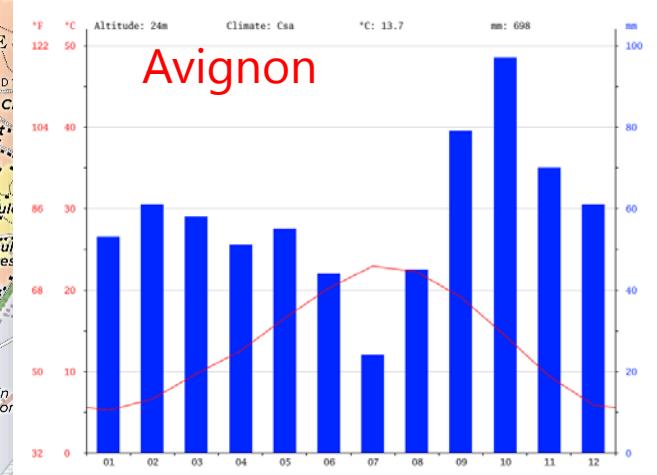
70% Grenache  
20% Mourvèdre  
10% Syrah



**Southern Rhône:**  
**GDD 3725 °F**  
**Region IV**  
**27" annual rainfall**



Clay, galets, sand  
Sustainable  
Hand harvest  
Destemmed  
12 mos. in demi-muids



# Château Mont-Redon

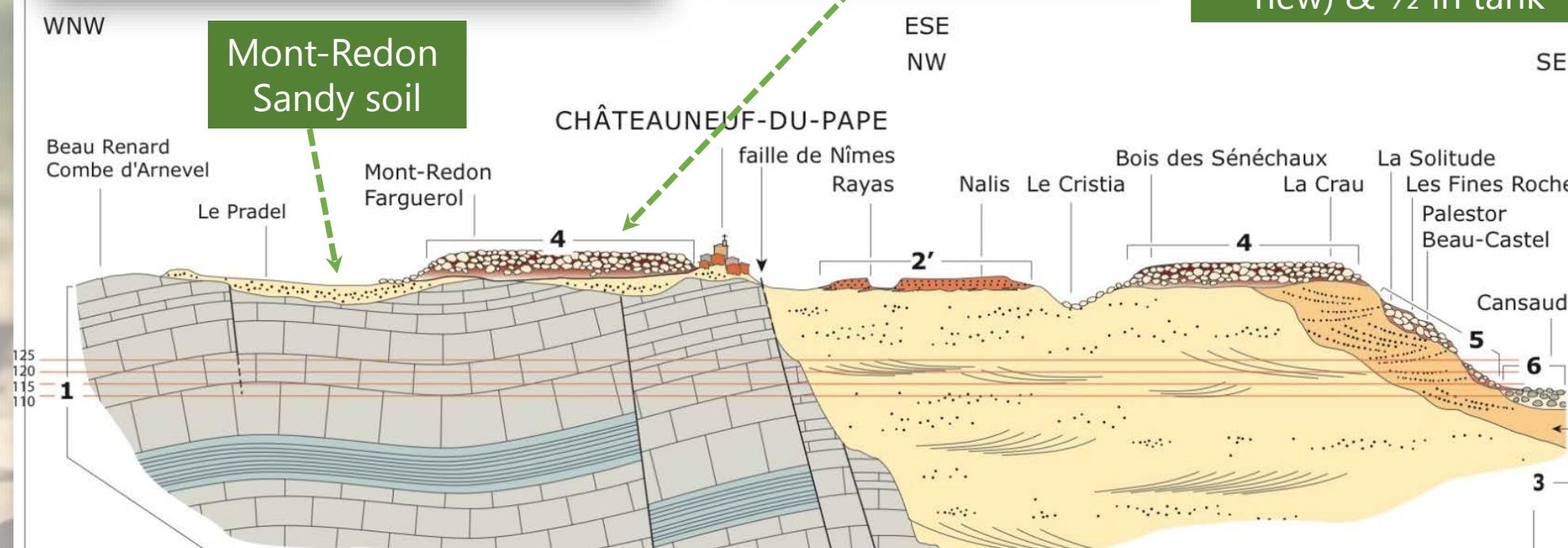
## Châteauneuf-du-Pape 2014

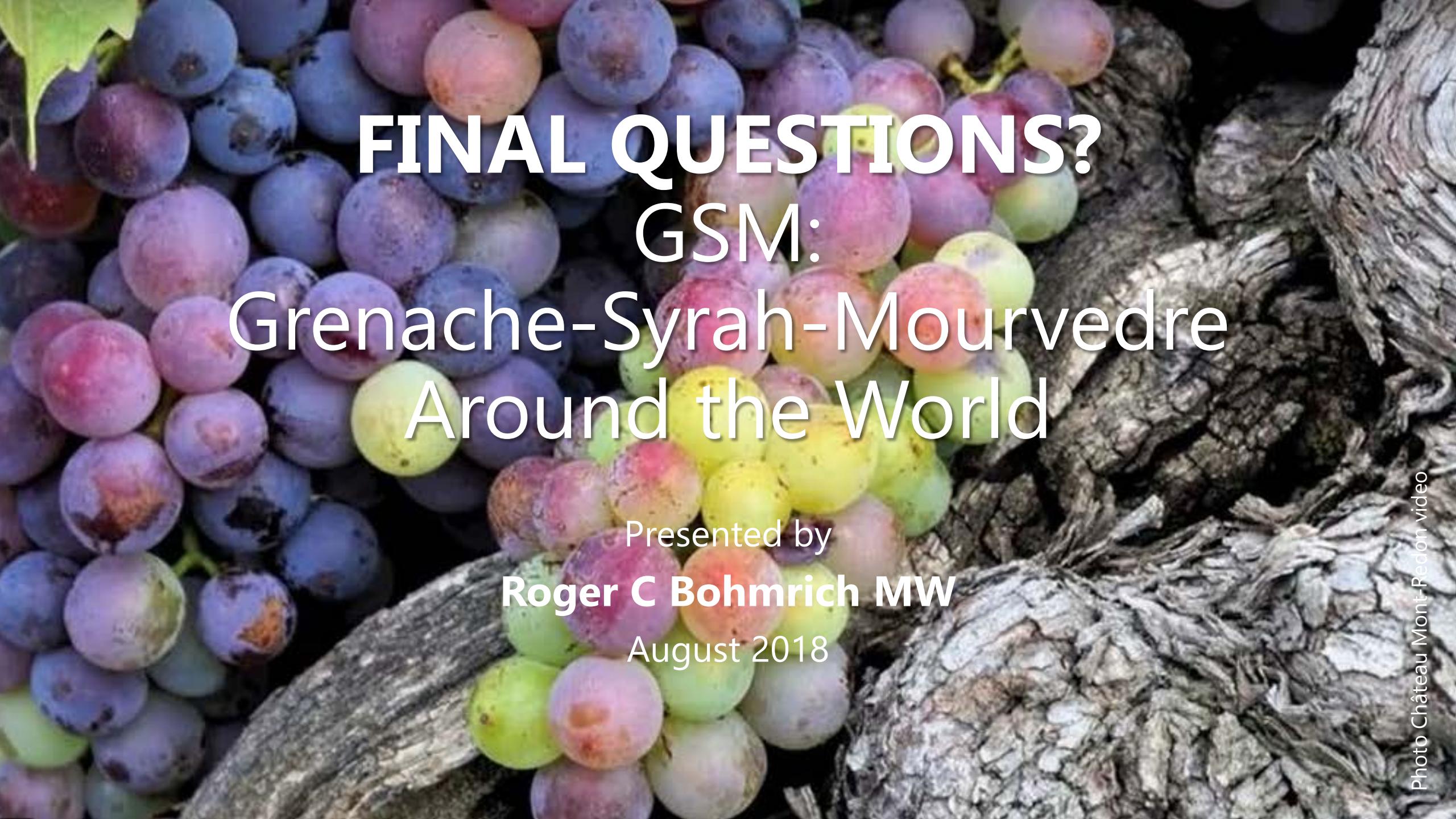
Rhône Valley, France



Unified single estate  
of 247 acres  
Galets, clay,  
limestone, sand  
Sustainable  
Hand harvest  
Destemmed  
Optical sorting  
12 mos. in  $\frac{1}{2}$  228L  
French barrels (25%  
new) &  $\frac{1}{2}$  in tank

60% Grenache  
30% Syrah  
8% Mourvèdre  
2% Counoise,  
Muscardin,  
Vaccarèse &  
Cinsault





# FINAL QUESTIONS?

## GSM:

### Grenache-Syrah-Mourvedre

### Around the World

Presented by

**Roger C Bohmrich MW**

August 2018