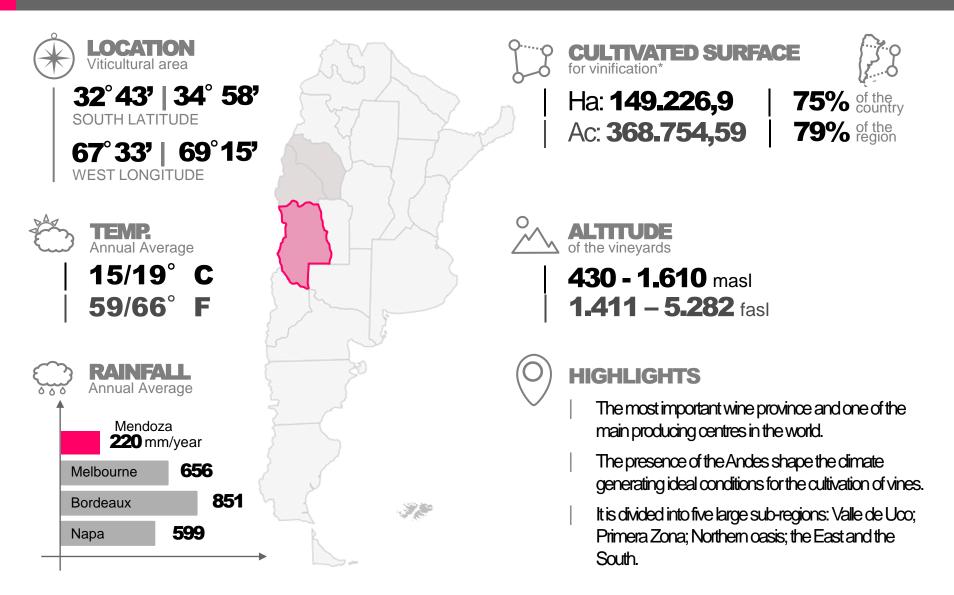
# MENDOZA







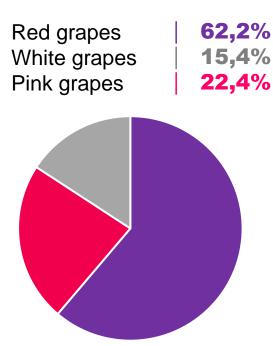


MENDOZA Main varieties

DISTRIBUTION



by colour\*





Malbec Bonarda Cabernet Sauvignon Syrah Tempranillo

	Hectares	Acres	%
MENDOZA	149.226,9	368.754,59	
Red varieties	92.794,3	229.303,99	% Red
Malbec	37.754,1	93.294,16	40,69%
Bonarda	15.249,9	37.684,03	16,43%
Cabernet Sauvignon	10.888,6	26.906,82	11,73%
Syrah	8.347,4	20.627,26	9,00%
Tempranillo	5.295,3	13.085,22	5,71%
Merlot	3.930,6	9.712,91	4,24%
Pinot Noir	1.488,3	3.677,74	1,60%
Cabernet Franc	978,9	2.418,96	1,05%
Petit Verdot	470,5	1.162,65	0,51%
Tannat	352,7	871,56	0,38%
Other red varieties	8.038,0	19.862,70	8,66%
White varieties	23.039,7	56.933,40	% White
Chardonnay	4.886,2	12.074,29	21,21%
Torrontés Riojano	3.474,5	8.585,84	15,08%
Chenin	1.553,4	3.838,61	6,74%
Sauvignon Blanc	1.507,3	3.724,69	6,54%
Semillón	555,6	1.372,94	2,41%
Viognier	449,0	1.109,52	1,95%
Torrontés Mendocino	158,9	392,66	0,69%
Torrontés Sanjuanino	143,8	355,34	0,62%
Riesling	51,0	126,03	0,22%
Other white varieties	10.260,0	25.353,49	44,53%
Pink varieties	33.392,9	82.517,20	% Pink
Cariolla Chica	153,2	378,57	0,46%

\*Source: National Viticulture Institute - Annual Surface Report (12/31/2019 database).







# PRIMERA ZONA

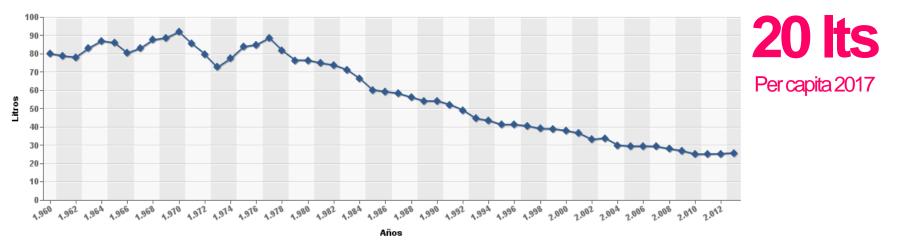




# BRIEF HISTORY | The beginnings



- **17th and 18th century:** 1<sup>st</sup> vineyards in Mendoza. Family own and handcraft viticulture of 'criollas' grapes.
- 1850's: beginning of industrial viticulture. European varieties planted.
- **1880:** Railway arrives to Mendoza bringing European immigration, also helping to develop the wine consumption market in Buenos Aires.
- 70's: Maximum historical consumption per capita: 90 Its.
- 80's: Changes in consumer habits. Viticultural crisis.
- **90's:** Commercial opening to the world. International advisors. Wine reconversion.



# BRIEF HISTORY | 20th Century

- Large scale irrigation network using water from Mendoza River.
- Primera Zona holds 40% of Argentina's wineries (881 in total)

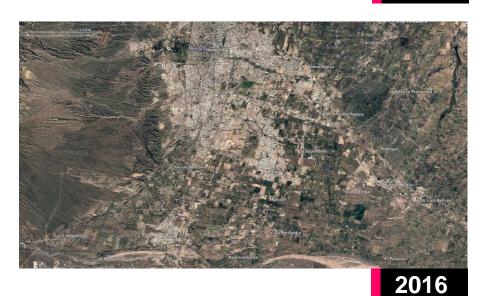
| 1990: D.O.C. Luján de Cuyo



- Some GI's:
  - Agrelo
  - Las Compuertas
  - Lunlunta
  - Barrancas

City advancement over vineyard areas.







### ORIGINS

- Flood Irrigation only
- Trellising: low trellis VSP and Parral.
- High density cultivation: 1.80 m X 1 m (5000 to 6000 pl / ha)
- Root-stock.
- Mass selections.
- Vines: French, Italian, Spanish and Criolla.
- Fine wines and table red and white wines

### PRESENT DAY

- Flood and drip irrigation.
- Conduction system: low trellis and high trellis.
- Low density cultivation: 2.2 meters X 1.2 meters (3000 to 4000 pl / ha)
- Grafted/ungrafted rootstock.
- Mass selections of old vineyards and clones.
- French varietals.
- Fine wines, mainly reds.

# LUJÁN DE CUYO Primera Zona



Luján de Cuyo

Mendoza Mendoza

Luján



Located to the south of Mendoza City, on the pre-cordillera.

It is composed of 15 districts, some of them are GIs:

AgreloLas Compuertas

• Rivadavia LUJÁN DE CUYO Gis



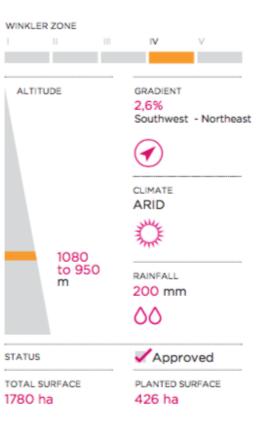
#### LUJÁN DE CUYO > AGRELO

#### **AGRELO**



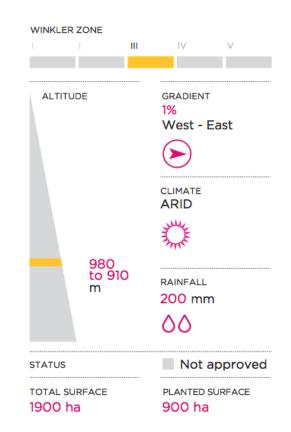
LUJÁN DE CUYO > LAS COMPUERTAS

#### LAS COMPUERTAS



LUJÁN DE CUYO > PERDRIEL

#### PERDRIEL



MAIPÚ Primera Zona



Maipú

27



Located in Mendoza city's southeast boundary, between Luján de Cuyo and the eastern departments of Mendoza.

It is composed of 12 districts, some of them are GIs:

- Barrancas
- Cruz de Piedra
- Lunlunta

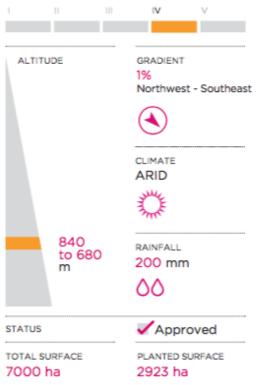
**MAIPÚ** Gls



MAIPÚ > LAS BARRANCAS

#### LAS BARRANCAS

#### WINKLER ZONE



MAIPÚ > LUNLUNTA



#### WINKLER ZONE IV V ALTITUDE GRADIENT 1.6 % Southwest - Northeast CLIMATE ARID we 930 to 880 RAINFALL m 200 mm ٥٥ Approved STATUS PLANTED SURFACE TOTAL SURFACE 1600 ha 600 ha



# UCO VALLEY



Tunuyán

Tupungato

San Carlos

Tupungato

San Carlos

Las Tunas River

Tunuyán

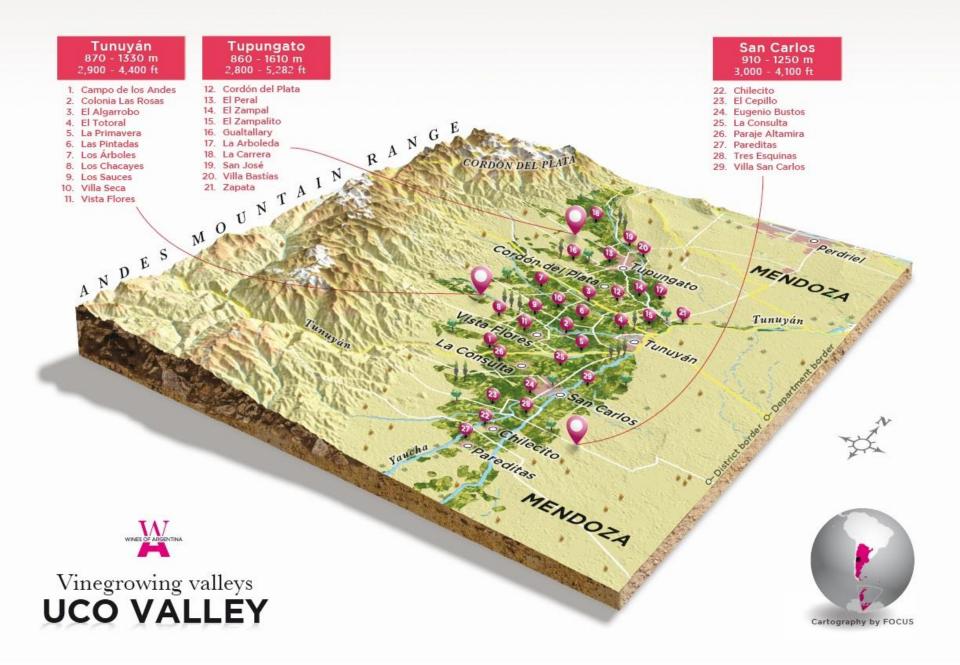
Tunuyán River

Mendoza City

Valley formed by the graben of the Tunuyán River, a tectonic depression.

Crossed by several rivers and streams –Tunuyán being the largest- all converge on The Zampal, like a fan, where they run towards the plain.

Rivers, winds and volcanic eruptions generated sedimentary plains where vines are planted, among other crops.



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## UCO VALLEY Today's figures





CULTIVATED SURFACEfor vinification (INV - 2019)\*Ha: 28.624,614Ac: 70.734,2519

87,6% Red varieties

14,4% of the 19,2% of the province

61% Malbec

New plantations raised the need to characterise the terroir of the Uco Valley.

MALBEC (Uco Valley) 40,5% of the province

## UCO VALLEY Brief History

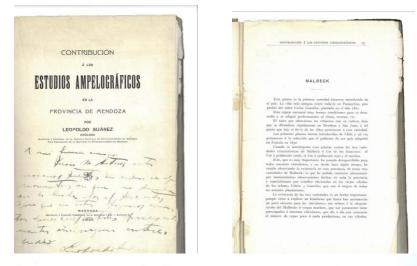


16<sup>th</sup> Century, Jesuits missionaries were the first colonizers that planted vines.

During the twentieth century Uco Valley specialized in the cultivation of fruit and vegetables, with some key places for vines: La Consulta, Eugenio Bustos, Vista Flores

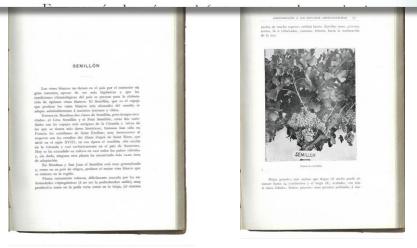
A book of 1922, written by oenologist Leopoldo Suárez, reported 16 wineries in San Carlos Department.

Also a book of the same author, reported in 1911 the potential of calcareous soils for Semillon and other grapes, like Malbec.



#### 70 CONTRIBUCIÓN Á LOS ESTUDIOS AMPELOGRÁFICOS

ideal es la mixta), su producción es constante, se adapta muy bien á los terrenos pedregosos, especialmente calcárcos, donde su mosto adquiere excelentes cualidades.







Planted in 1900. For the very first part of 20<sup>th</sup> Century it was considered a qualitative place.

As it was never a political district, it was a renowned place without clear boundaries.

Therefore, the name of Altamira was commonly used to point out an imprecise place in San Carlos.

Its name derives from the panoramic view it offers from the highest point.

#### UCO VALLEY | SAN CARLOS PARAJE ALTAMIRA GI

Los Chacayes

**Villa Seca** 

Villa Seca

Vista Flores Vista Flores

숛

PARAJE

**ALTAMIRA** 

Campo Los Andes

La Consulta

La Consulta

**El Cepillo** 

Located in San Carlos, on the alluvial cone of the Tunuyán River. It is not a political district.

Since 2000, it has experienced a marked growth in cultivated area.

The red grapes are renowned for their colour and acidity.

Los Indios

© 2018 Google Image © 2018 DigitalGlobe Image © 2018 CNES / Airbus Eugenio Bustos

San Carlos

GoogleE



Tunuyán

## **TERROIR** Paraje Altamira GI



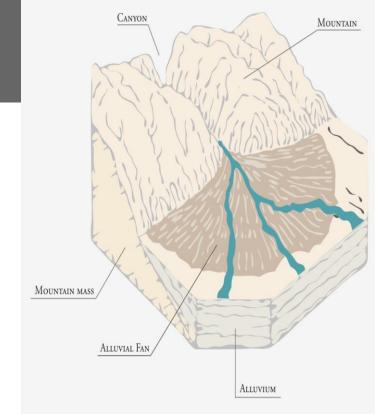


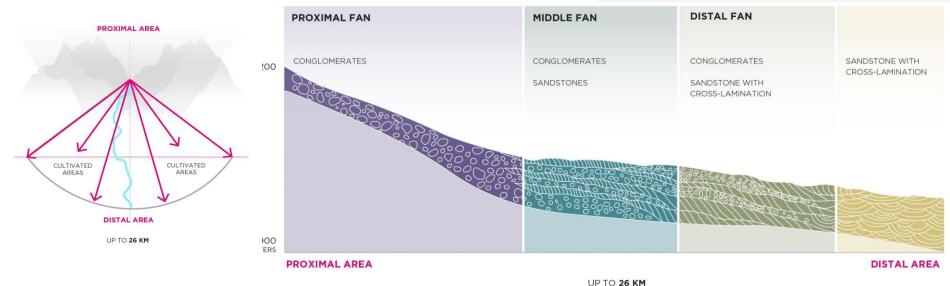
### **SOILS** Paraje Altamira GI

**2009:** The need to separate it from La Consulta by soil type.

The **alluvial cone** of Tunuyán River was the physical factor for the delimitation.

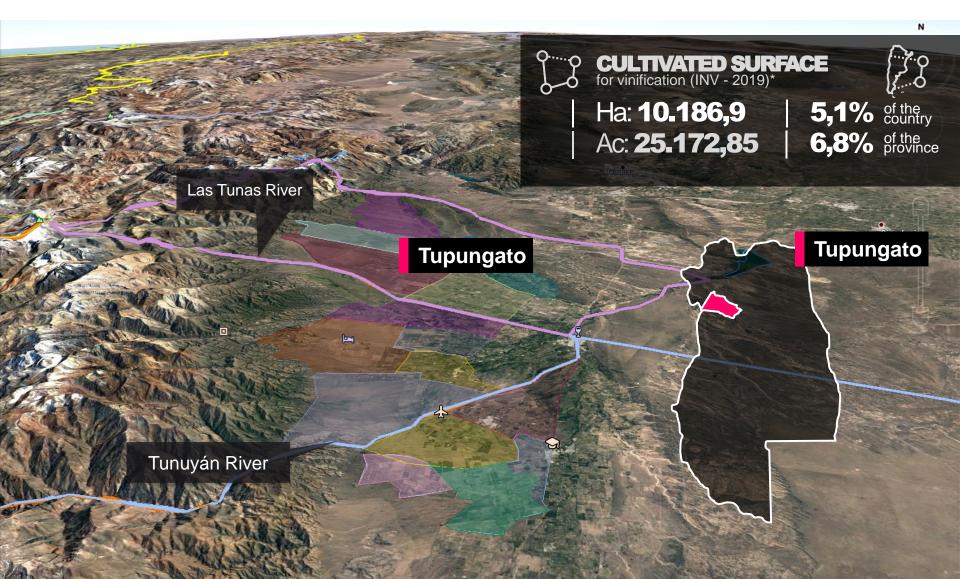
**Paraje Altamira GI** was approved in 2013, then expanded in 2016.





#### UCO VALLEY TUPUNGATO GI Location





## **TUPUNGATO** Brief History



It's been part of a Jesuit *encomienda* since 17th Century.

The valley has been farmed with orchards, vineyards and horticultural crops since the beginning of 20th Century.

Flood irrigation was common until mid 90's. Since then, drip irrigation has become more popular mainly on slopes and difficult topographies.

The personality and uniqueness of the wines has attracted the attention of wine critics and consumers worldwide.

**Tupungato is the only approved GI.** Gualtallary is a GI in process of approval.

Main grape variety: Malbec. Chardonnay, Cabernet Sauvignon, Pinot Noir & Cabernet Franc are also very important grapes in the GI based on the quality of the wines made out of these varietals

#### UCO VALLEY | TUPUNGATO GUALTALLARY Location





#### Gualtallary boundaries:

- West: The Andes range, the border with Chile;
- **E**ast: Route 89
- **North: El Peral district**
- **South: Las Tunas River**



#### UCO VALLEY | TUPUNGATO GUALTALLARY A GI in process of approval



Gualtallary has already been requested as a GI by grape growers & a winery consortium.

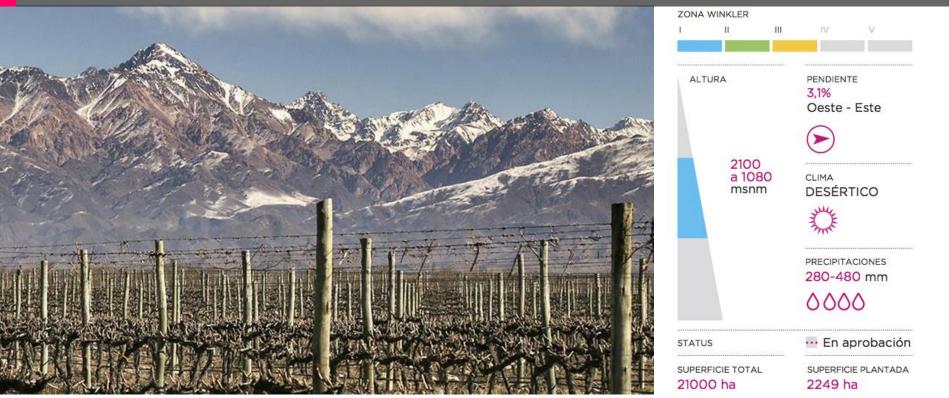
There are over 20,000 ha of agricultural land. Only 2,200 ha are planted to date.

There is limited access to water trough wells or surface water rights from Las Tunas dam.

Gualtallary is one of the most exciting wine regions of South America due to the combination of its most diverse climates and soils.







The GI goes from 1.080 mts (3.500 ft) to 2.200 mts (7.200 ft) east-west.

There is a difference of 6\*C from the base to the top of the GI, as the average temperature drops 1\*C every 150 meters.



#### ALLUVIAL DEPOSITS FROM LAS TUNAS RIVER

The alluvial cone of the river delimits **three terraces**; 2 and 3 are plantation areas. They have similar compositions, pebbles, sand (75/80%), silt (15/20%) and clay (2/5%).

#### COLLUVIAL DEPOSITS FROM THE FRONTAL MOUNTAIN RANGE

They occupy small areas around the mountain range. They are not relevant nowadays from the point of view of new plantings...

#### WIND BLOWN DEPOSITS

They form an extensive area in the heart of the GI, between Las Huayquerías and Las Tunas stream. Formed by loess with variable depth.

#### SUPERFICIAL BEDROCK

Extremely rare plantings over calcium carbonate coated stones & stone encrusted calcareous mother rock.





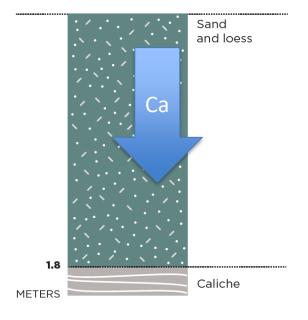
#### CALCAREOUS SOILS

These are desert soils with the typical small bush vegetation in which the leaching of the calcium carbonates by the alluviums takes place, moving the mineral to deeper horizons.

There, the calcium builds up and solidifies forming a hard coarse rock called caliche as well as coating the stones with a white patina of chalk..

This type of soil is the most frequent in Gualtallary.





### **TUPUNGATO** Other relevant districts (NON-GI)



#### LA CARRERA & EL PERAL

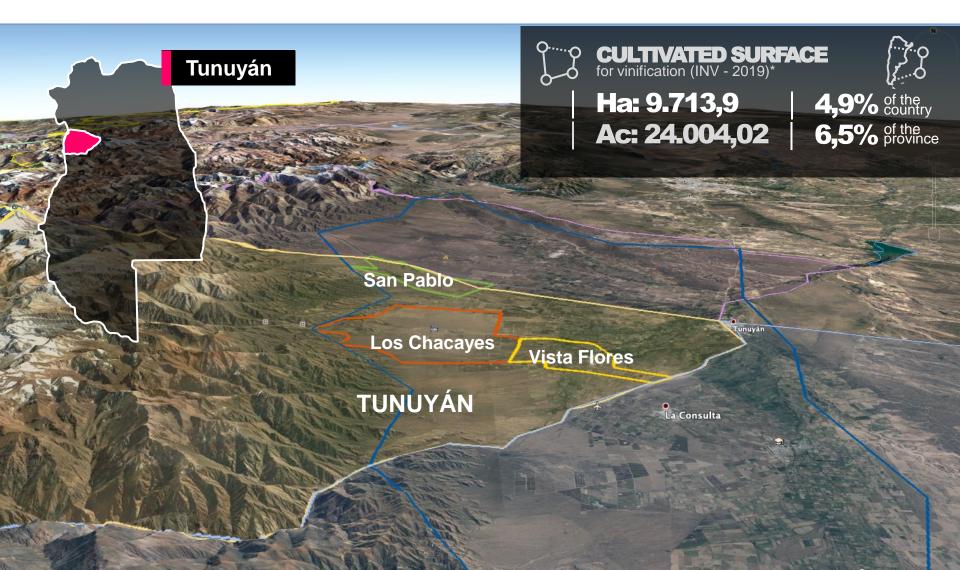
- La Carrera: highest area under new plantings in the Valley.
- Altitude ranges from 1300m (4200 ft) to 1900m (6200 ft). Winkler II and I.
- There are small and scattered vineyards in the area.
- Alluvial soil.
- There are four rivers flooding the plain: La Carrera and Santa Clara are the most important, linked by Anchayuyo River.
- Wind blown and calcareous deposits. Rich organic matter in the topsoils.
- They form an extensive area in the heart of the GI, between Las Huayquerías and Santa Clara creek.

#### SAN JOSÉ & VILLA BASTÍAS

- Old vineyards developed in the early 20<sup>th</sup> Century.
- Altitude ranges from 1.050 m (3500 feet) to 1.200 m (4000 ft).
- This area is mostly planted with cherry, walnuts and vineyards.
- Predominantly small grapegrowers.
- Chardonnay is widely planted.
- Alluvial and colluvial soils.
- Both banks in the Anchayuyo River are planted over alluvial soils.
- The eastern bank is colluvial with wind blown topsoils.







# UCO VALLEY TUNUYÁN GI



- **17<sup>th</sup> Century:** First settlers arrived in Tunuyán. Before that, it was a land of Huarpes, whose Cacique (chief) was called 'Cuco'.
- During the last 200 years the lower land was used for grazing, fodder and fruit trees (apples and pears).
- Since 1995 new, high-lands were developed for vines at the foot of the Andes, where pressurized irrigation has allowed new plantations.
- New investors quickly arrived and increased vineyard areas. All new areas were planted **above 1.000 meters** (3.300ft).
- Since 2010, when these vineyards matured, it was clear that **high altitude vines in Tunuyán create a different wine style.**
- The need for better understanding of terroir pushed for new GI developments.
- Approved GIs so far:
  - Tunuyán, Los Chacayes, Vista Flores and San Pablo.
  - San Pablo is a well studied and supported GI as it's not fixed on political boundaries.

## UCO VALLEY | TUNUYÁN SAN PABLO GI



Its name corresponds to Estancia San Pablo, a Jesuit mission established there towards the 17<sup>th</sup> Century.

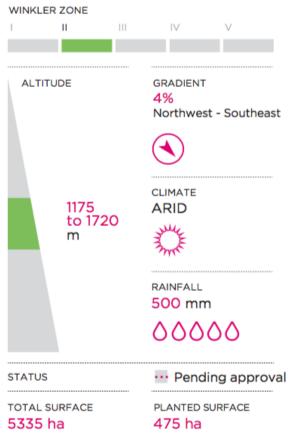
In 2000, vineyard cultivation began in the higher areas.

In 2016 a group of wineries requested the delimitation of the GI on account of scientific criteria.

#### San Pablo







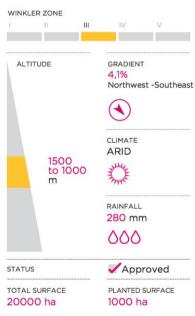






TUNUYÁN > LOS CHACAYES

#### LOS CHACAYES



LANDSCAPE MORPHOLOGY Foothill Plain with Arroyo Grande alluvial fan.

#### SOIL TYPE

"Torriorthents soils with an abundance of stones in the upper part and some colluvial stretches, well attached to the mountain range." Sand is the central component, mainly in the area of the stream, with fine loess deposits.







TUNUYÁN > VISTA FLORES

#### **VISTA FLORES**

# ALTITUDE GRADIENT O,5% West - East



LANDSCAPE MORPHOLOGY

SOIL TYPE

Deep soils, predominantly sand and silt. An upwelling of natural waters, peat and isolated flooding.









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