

Grape growing in Lithuania

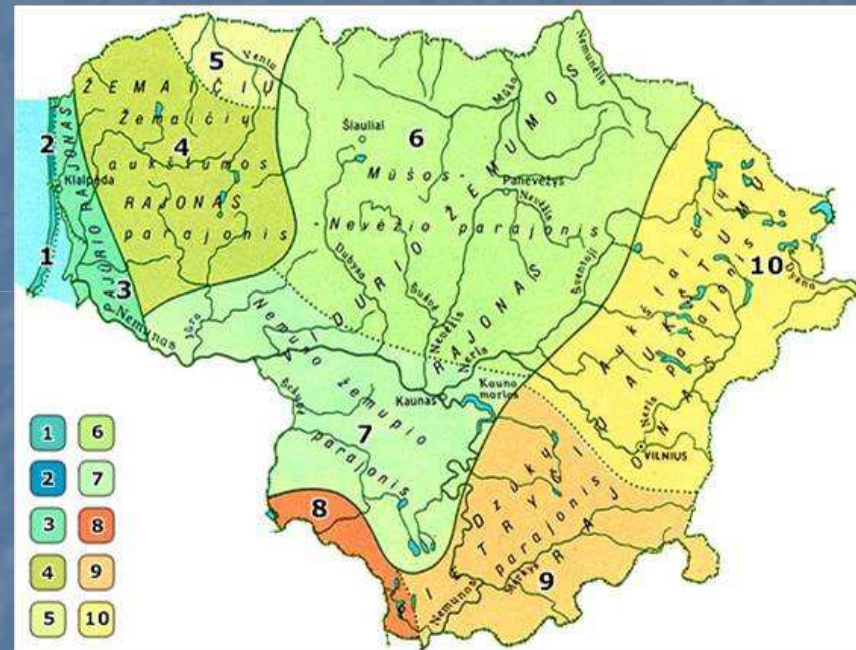


■ Andrius Diliautas



Climate in Lithuania

- Mid-way between maritime and continental.
- The weather is changeable, with mild, wet summers and cold winters.
- Rainfall is spread throughout the year, but more rain tends to fall on the coast. Summer is the wettest season (60-80 mm/month), and cloudy skies are common.





Climate in Lithuania

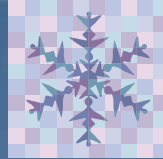


- Warming effect of the sea
- The effect of Atlantic Ocean is felt not only on the seashore but also in the whole territory of Lithuania
- In Lithuania the average air temperature in January is almost 10 degrees higher than the AVG temp. of Middle Russia which belongs to our geographical latitude.



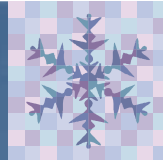
Climate in Lithuania

- **YMT** is **6.2° C** (43° F). Last decade: **6.9° C** (44.5 F).
Year 2000: **8.3° C** (47 F).
- **17-25 °C** (~70 F) is frequent at summer day and 14 °C at night.
- January from **-2,5 ° C** (27,5 F) (seaside)
to **- 6 ° C** (21° F) (Vilnius)
- **ΣT>10° C** (50 F) **2000 – 2500 (AVG 2200-2300)**
- Length of the season (>10° C) – **130-140 days**
- Extreme temperatures:
Max temp. **+ 37,5°C** 1994-07-30, Zarasai
Min temp. **- 42,9 °C** 1956-02-01, Utena Brrrr..



Winters and Late spring freeze

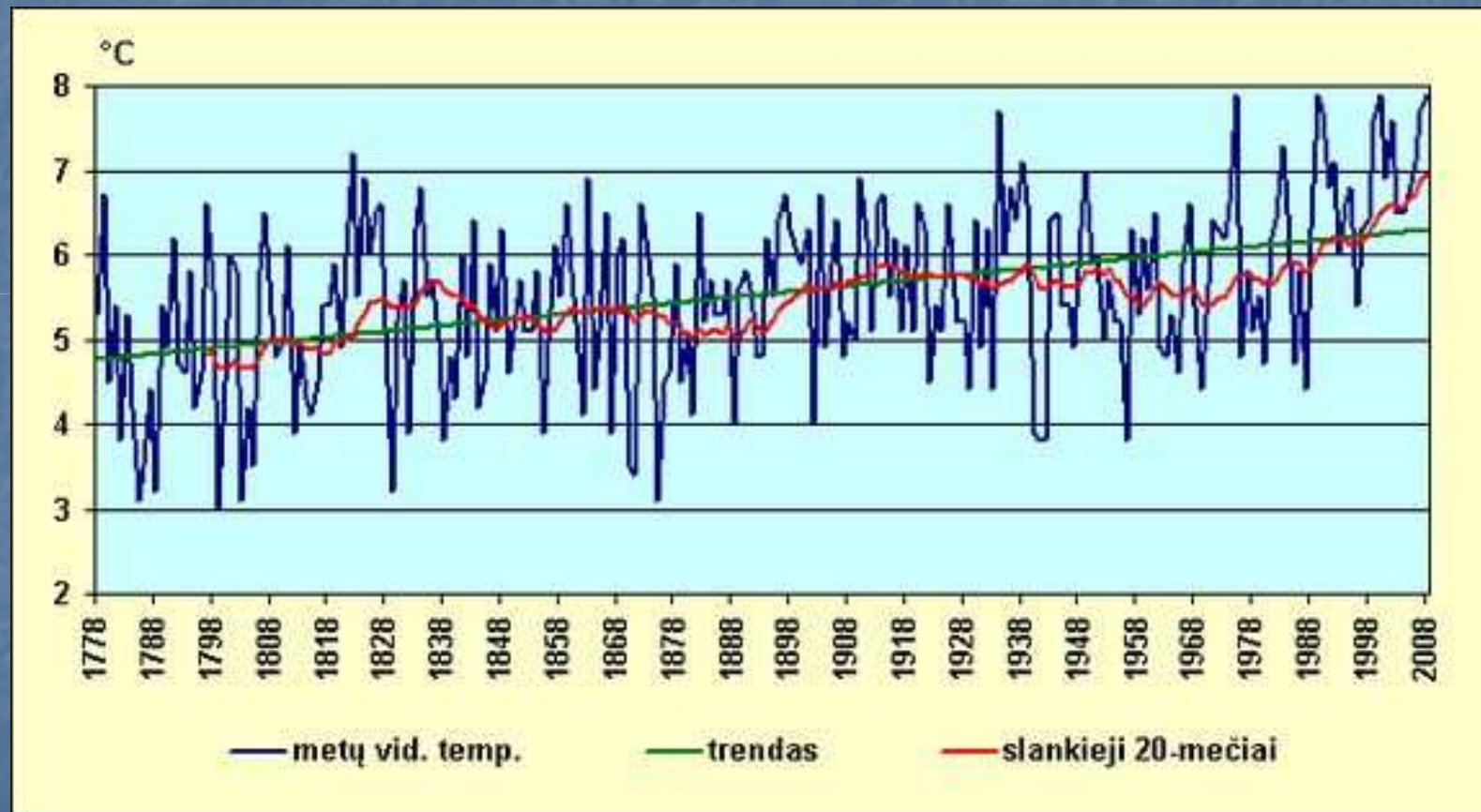




Winters and Late spring freeze

- **-20 ° C** (-4 F) occur almost every winter.
- 6b zone – seaside; $T_{\text{°n(m)}} > -20 \text{ ° C}$ (-4 F)
- 5a zone - east LT; $T_{\text{°n(m)}} -25 \text{ ° C} - -28 \text{ ° C}$ (-18,4 F)
- Night temp. of **-30 ° C** (-22 F) - **-34 ° C** (-29 F) are not very rare in the eastern part of Lithuania
- **Frost free season:**
160 – 180 days in the seaside and **130 - 150 days** in the east of Lithuania.
Late spring frost – 5 of May.
First frost in Fall – 25-28 of September .

Climate change since 1778



Climate change predictions for the 21st century in Lithuania*

- Winter + (4–8 °C)
- Summer + (1,5–3,5 °C)
- More wet in Winter and Spring
- Less wet in Summer and Fall
- More sunshine hours
- Less snow
- Still risk of cold weather invasions from North-East during winter
- * Egidijus Rimkus, Justas Kažys, Justina Junevičiūtė, Edvinas Stonevičius, Vilnius university

History of grape growing in Lithuania

- In XVIII - XIX centuries vines were grown in some manors (estates) in Lithuania.

First time mentioned:

- **1782** (*Vitis vinifera* L.),
- 1821 (*Vitis labrusca* L.),
- 1824 (*Vitis vulpina* L.)

History of grape growing in Lithuania

- In 1931-1937 in Kaunas botanical garden were planted these varieties:
- 'Chasselas Blanc'
- 'Chasselas de Vitbert'
- 'Chasselas Rose'
- 'Lignan' (Luglienga Bianca, Italy)
- 'Madeleine Angevine'
- 'Malingre Precose'
- 'Limberger'
- 'Früher Leipziger' (Agostenga , Italy)
- 'Frühburgunder'
- 'Oberlin 604' (Riparia Millardet x Gamay Noir)
- 'Isabella'

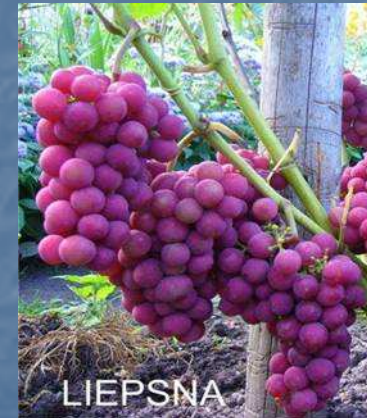
Local amateur grapebreeders

Antanas Gailiunas

(Rokiskis distr., Juodupe)

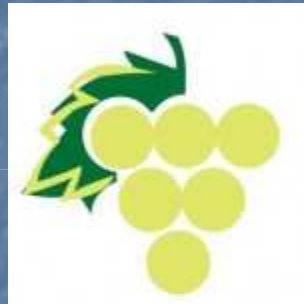
His most famous selections:

- **Gailiune**
- **Gailiuno Jadvyga**
- **Gailiuno Sasla**
- **Juodupe**
- **Juodkrante**
- **Juvendana**
- **Liepsna**
- **Palanga**
- **Sirvinta**
- **Lietuvos perlas**
- **Varduva**



Associations

- Association of Lithuanian grape growers (2007)



- National association of (amateur) winemakers (2006)

www.nva.lt



First commercial vineyard

- **Plunge (2009)**
- **1 ha (8 ha in plans)**
- **Organic**
- **Solaris - 2500 vines**
- **Rondo – 1500 vines**
- **MF – 375 vines**
- **LM – 250 vines**
- **EU Structural funds support** (Setting up of Young Farmers)



Growing grapes in greenhouses and outdoor



Training and Pruning



Protecting vines in winter



Table grape varieties

Most popular:

A. Gailiunas selections;

P. Sukatnieks (Latvia)
selections:

Supaga, Guna;

Russian varieties:

Alioshenkin,

Vostorg,

Timur,

Olga (Krasa Severa)

Jubilei Novgoroda,

Agat Donskoi.

Most promising:

Garant,

Galanth,

Osella,

Arkadia,

Augustin (V25/20)

Nero,

Muscat Bleu,

Pesnia,

Elegant sverchrannii,

Kishmish No 342,

Galachad,

Garold.

Pics of table grape varieties



Wine grape varieties

Most popular:

Ivanausko rastinuke
(Alpha or Beta ?)

Solaris

Rondo

Most promising:

- **Solaris**
- Siegerrebe
- Rondo ?
- Regent ?
- The earliest of Elmer Swenson's selections
- Varduva

Pics of wine grape varieties



Chemistry 2009 White

$\Sigma T > 10^{\circ} \text{C} \sim 2200$ (average 2350)

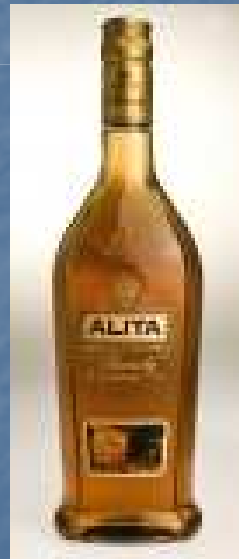
Variety	Brix, 03 sept.	Brix, 19 sept.	TA, 19 sept.
Solaris	22,5	24-25	8-8,5 g/l
Siegerrebe	16	19	nm
Ortega	18	20	nm
Milia	19	20	nm
Seyval blanc	16	18	9 g/l
Bianca	17	18	nm
Phoenix	16	18	nm
Johanniter	15	17	nm

Chemistry 2009 Red

$\Sigma T > 10^{\circ} \text{C} \sim 2200$ (average 2350)

Variety	Brix, 03 sept.	Brix, 19 sept.	TA, 19 sept.
ES 9-7-48	25	-	nm
Regent	18	21	9 g/l
Rondo	17	19,5	8,5 g/l
Cabernet Cortis	18	20	10 g/l
Marechal Foch	18	20	nm
Leon Millot	17	20	nm
Dornfelder	14,5	16 - 17	nm
Frühburgunder	15	16 - 17	nm

Winemaking



Amateur winemaking



Thank You !!!

