



9 Novembre 2018



# Andamento climatico e monitoraggio della maturazione delle uve

*Alessandra Zombardo*

*Centro di Ricerca per la Viticoltura e l'Enologia*

*Arezzo*

[alessandra.zombardo@crea.gov.it](mailto:alessandra.zombardo@crea.gov.it)

## Misura 16.2 - Sostegno a progetti pilota e di cooperazione

### **Progetto QuaSAR: Qualità e sostenibilità dei vini aretini**

**Miglioramento qualitativo e ambientale  
delle produzioni vitivinicole aretine**



**MONITORAGGIO DELLA MATURAZIONE DELL'UVA**



## Scopo:

- Supporto ai soci
- Necessità di avere uve equilibrate e di buona qualità per la vinificazione

→ Informazioni relative all'andamento della maturazione media del territorio tramite report settimanali

<http://www.vinitipiciar.it/it/press>



The screenshot shows the website interface for Cantina Vini Tipici del Areтино. The main article is titled "PIF MISURA 16.2 CURVE DI MATURAZIONE QUARTO CAMPIONAMENTO". The article text includes information about the harvest progress, mentioning that the grapes are reaching maturity and that the wine is being produced. The website also features a navigation menu, a search bar, and a sidebar with categories and popular articles.



## Attività di monitoraggio

3 stagioni produttive: 2016, 2017, 2018

Zone campionamento:

2016 → 13 aziende (33 campioni)

2017 → 11 aziende (26 campioni)

2018 → 10 aziende (20 campioni)

Numero campionamenti:

2016 → 5 settimane (dal 31/8 al 29/9)

2017 → 4 settimane (dal 28/8 al 19/9)

2018 → 4 settimane (dal 28/8 al 20/9)





# Vitigni compresi nel monitoraggio:

SANGIOVESE

CABERNET SAUVIGNON

MERLOT

ANCELOTTA



## Maturità tecnologica

Campionamento 100 acini

- Peso medio dell'acino (g)
- Zuccheri (°Brix)
- Acidità titolabile (g/L acido tartarico)
- pH

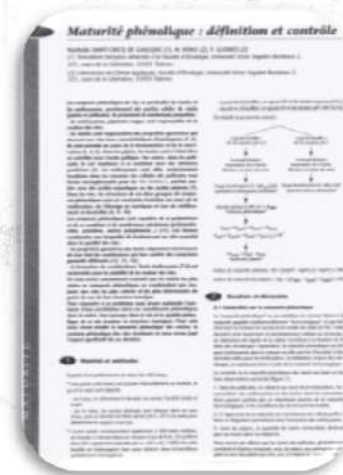


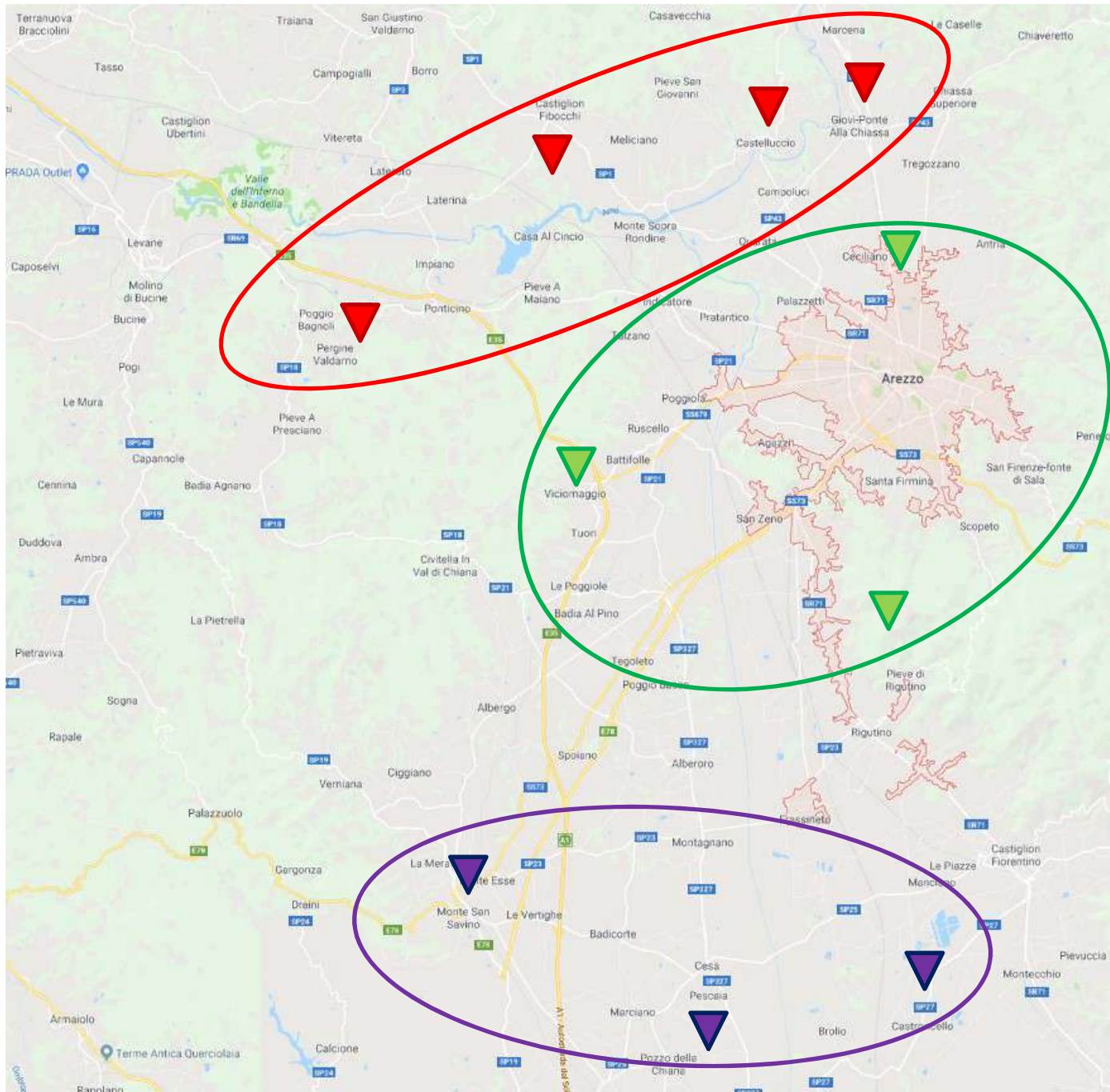
## Maturità fenolica

Campionamento 100 acini

Metodo Glories (1998)

- Indici relativi al contenuto in sostanze fenoliche  
→ Antociani totali ed estraibili (mg/Kg uva)





### Zona Arezzo:

- Viciomaggio
- Policiano
- Ceciliano

### Zona Valdichiana:

- Pozzo della Chiana
- Monte San Savino
- Castroncello

### Zona Valdarno e Basso casentino:

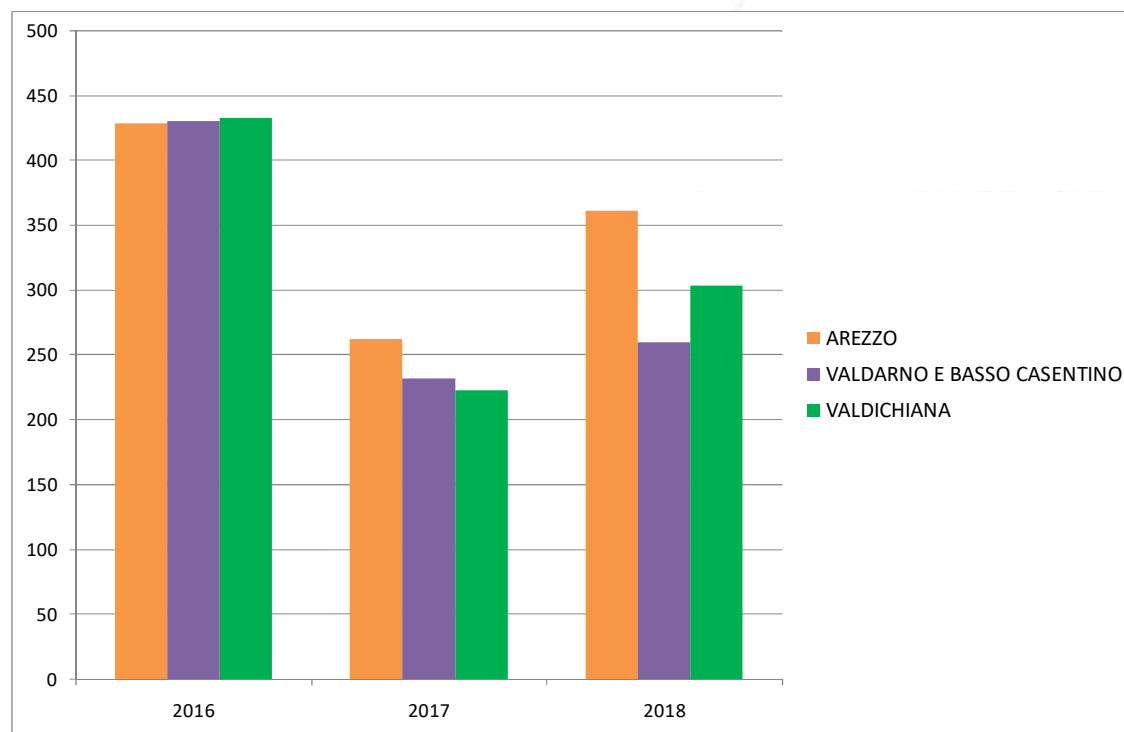
- Castelluccio
- Giovi
- Castiglion Fibocchi
- Pergine



## Andamento climatico stagionale Triennio 2016, 2017, 2018

### Precipitazioni giornaliere

Σ Pioggia (mm), periodo 1 aprile – 30 settembre

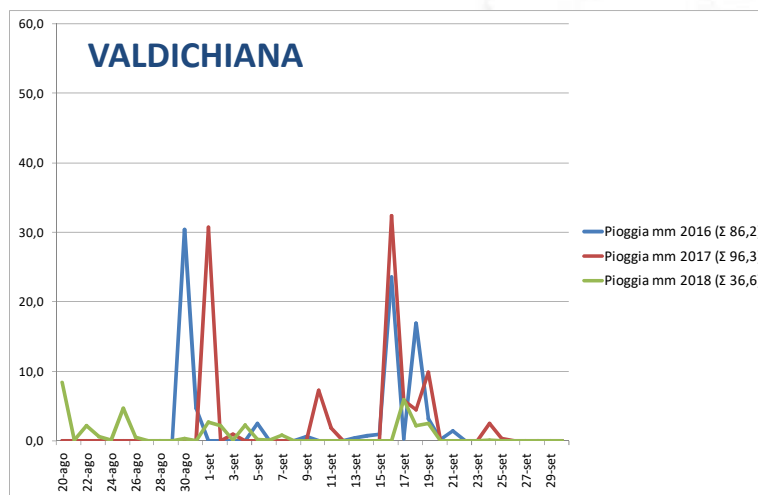
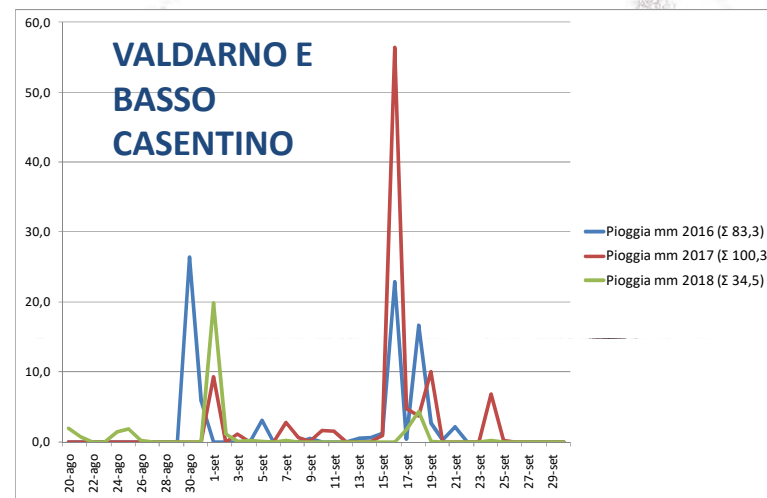
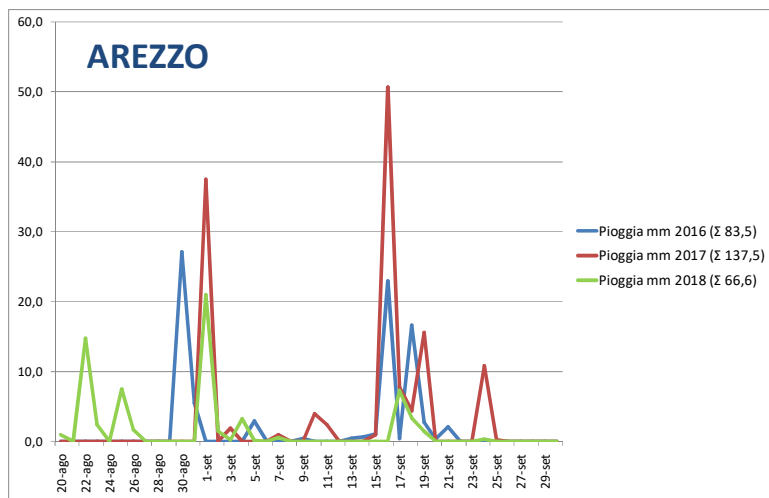






# Precipitazioni giornaliere

Periodo 20 agosto – 30 settembre

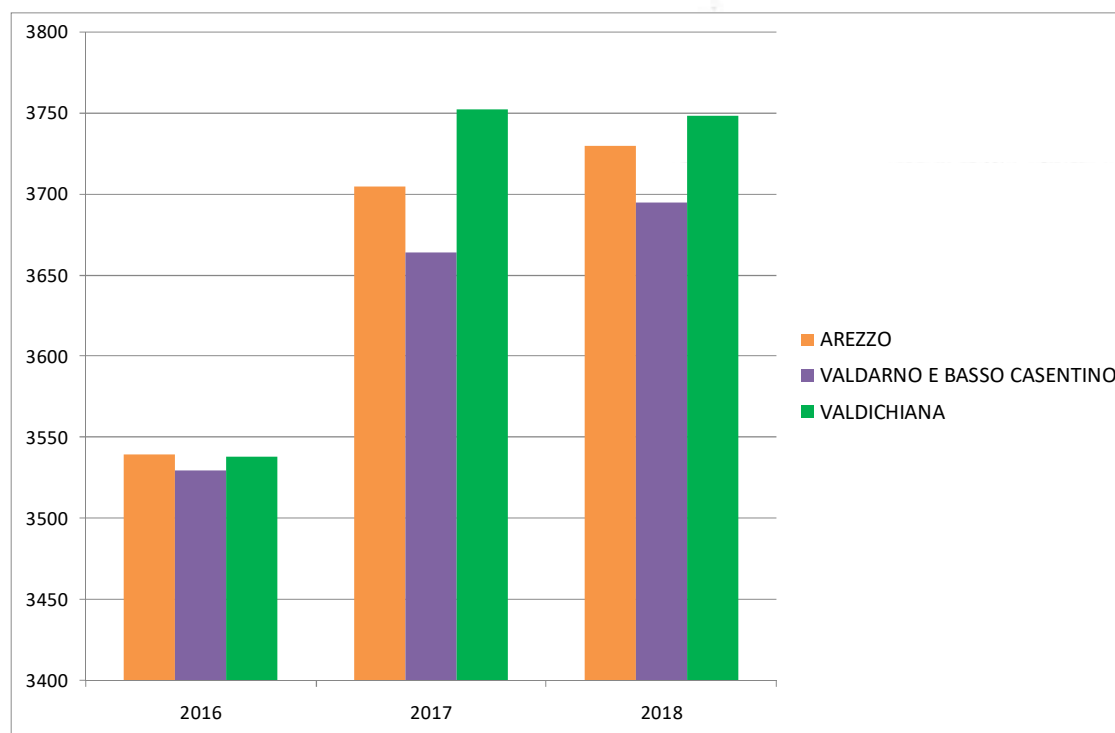




## Andamento climatico stagionale Triennio 2016, 2017, 2018

### Temperatura giornaliera

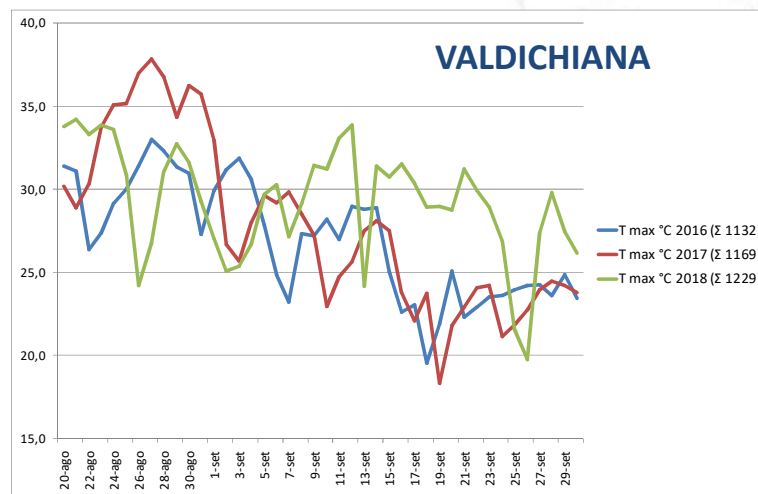
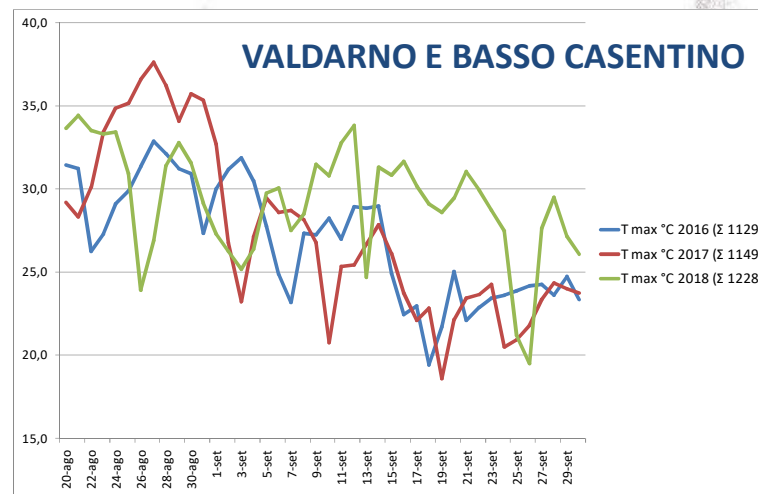
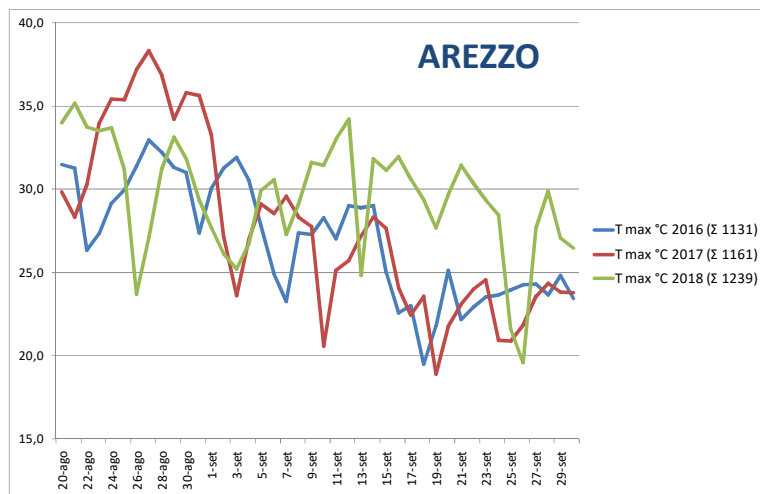
Σ Temperature medie (Gradi Giorno), periodo 1 aprile – 30 settembre





# Temperature giornaliere massime

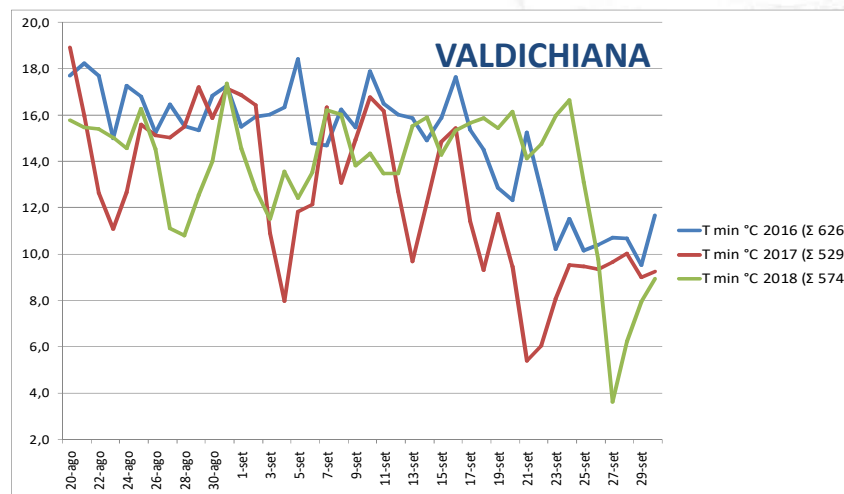
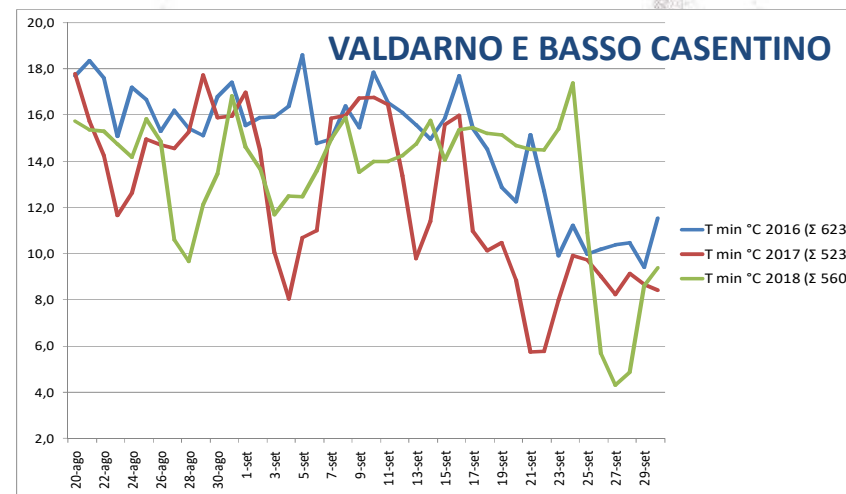
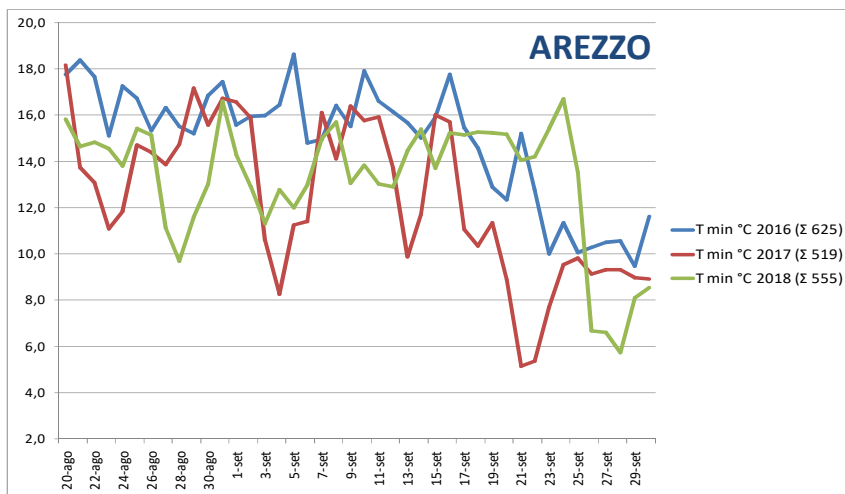
## Periodo 20 agosto – 30 settembre





# Temperature giornaliere minime

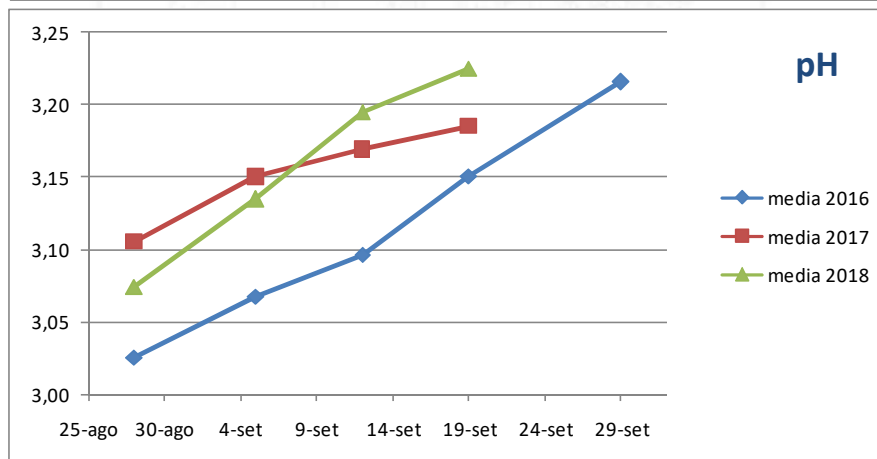
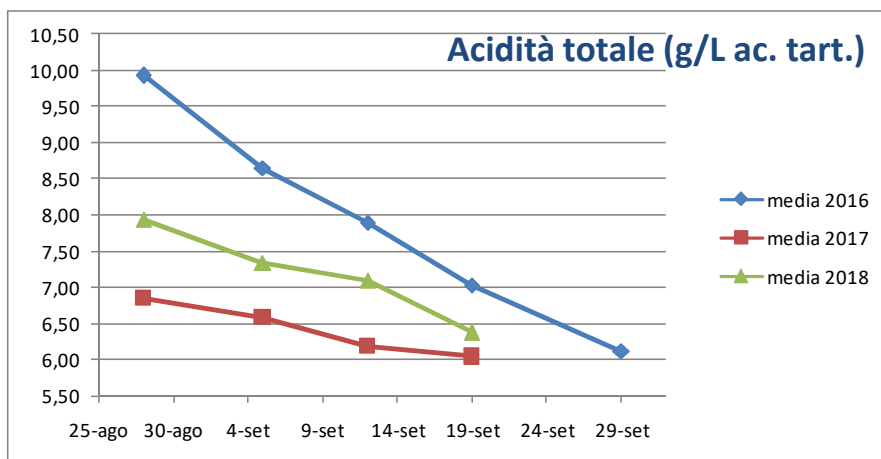
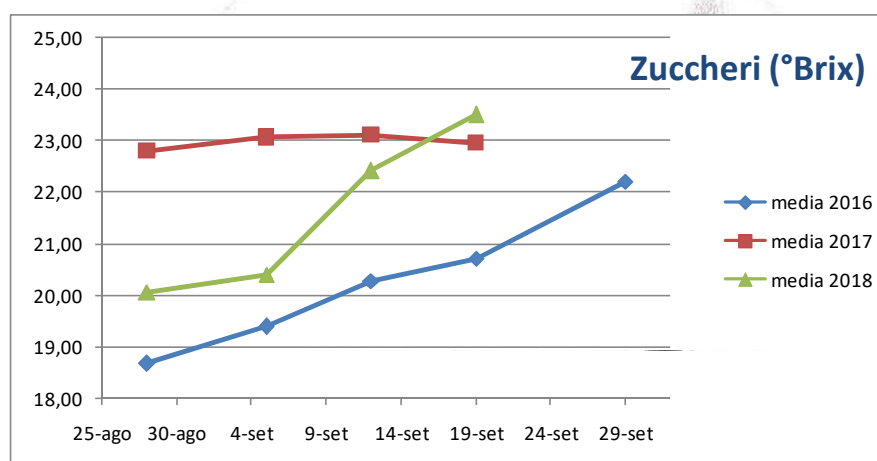
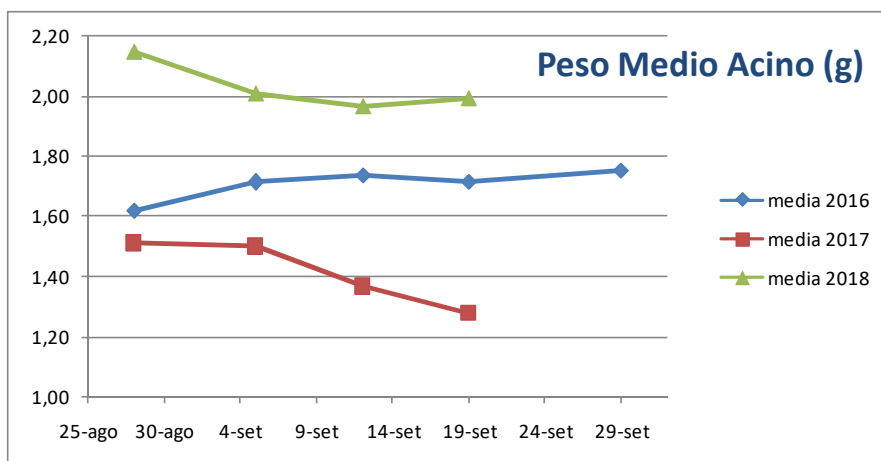
## Periodo 20 agosto – 30 settembre





# MATURAZIONE TECNOLOGICA: SANGIOVESE

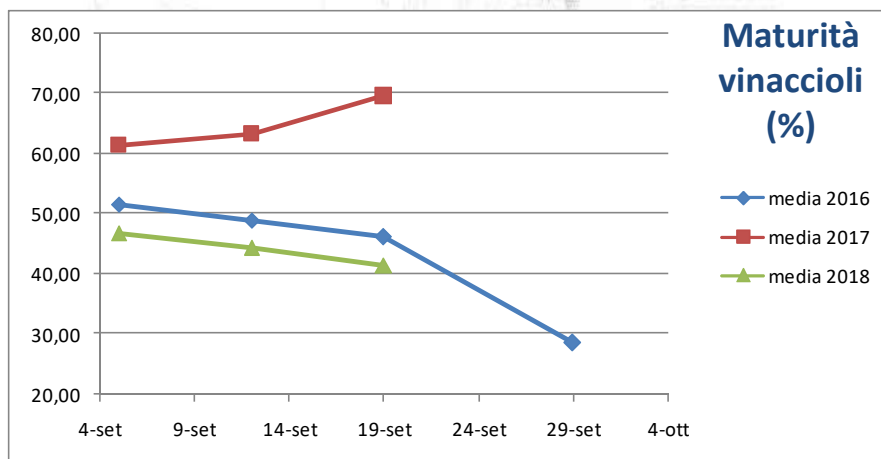
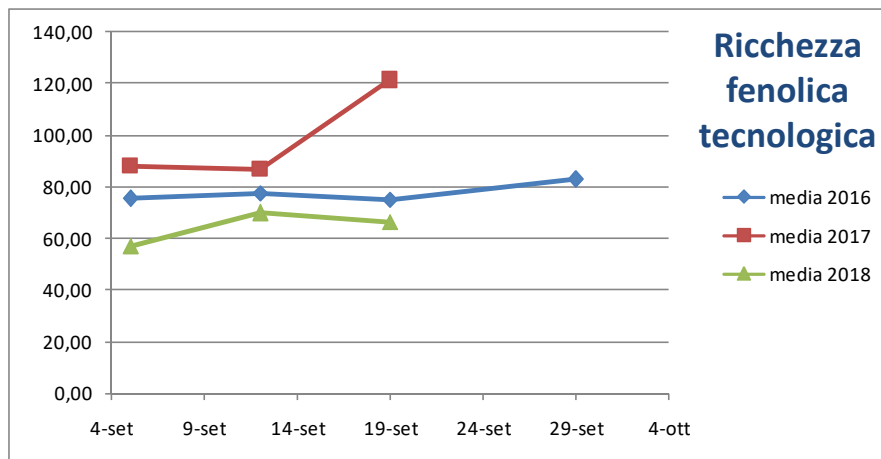
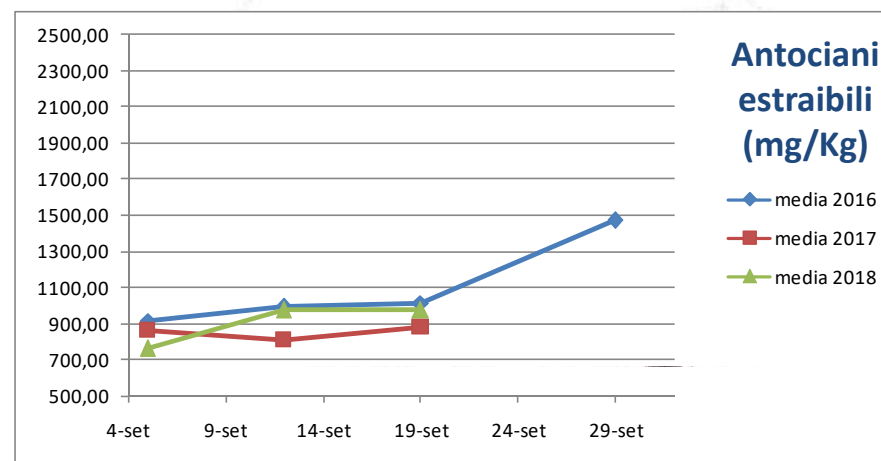
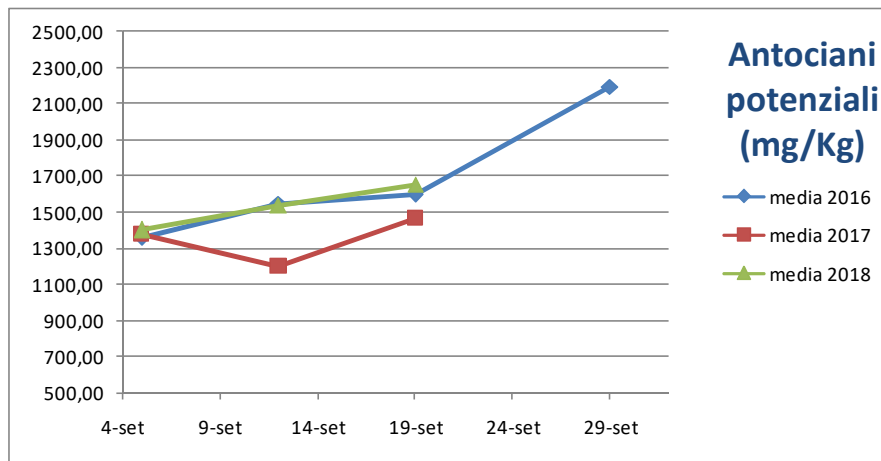
## Triennio 2016, 2017, 2018





# MATURAZIONE FENOLICA: SANGIOVESE

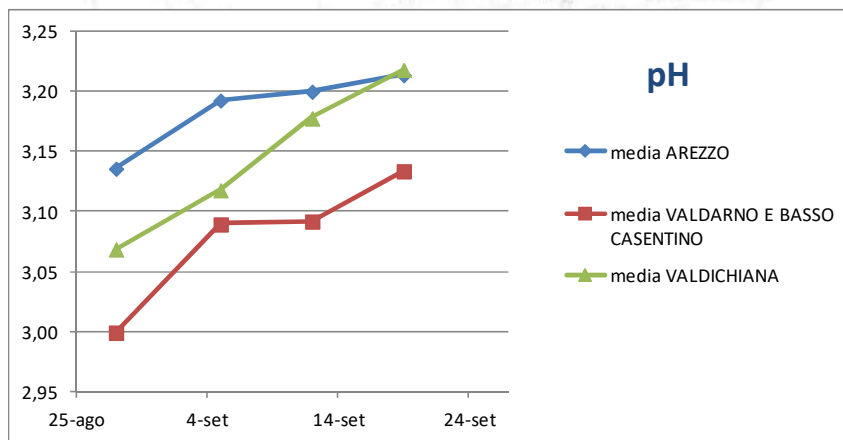
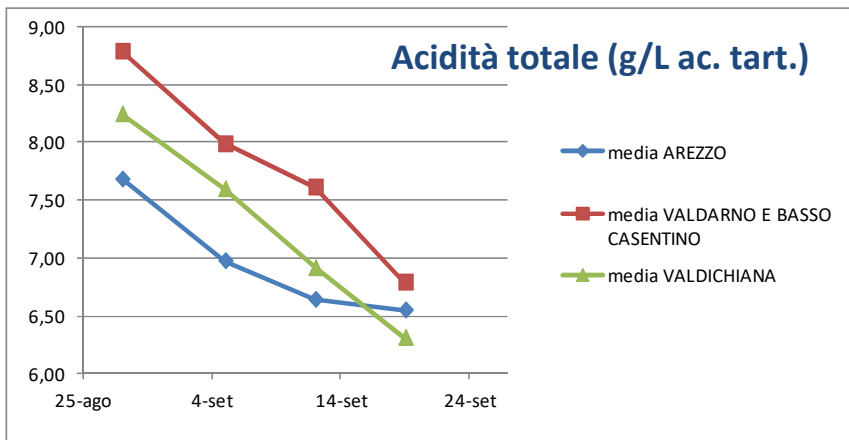
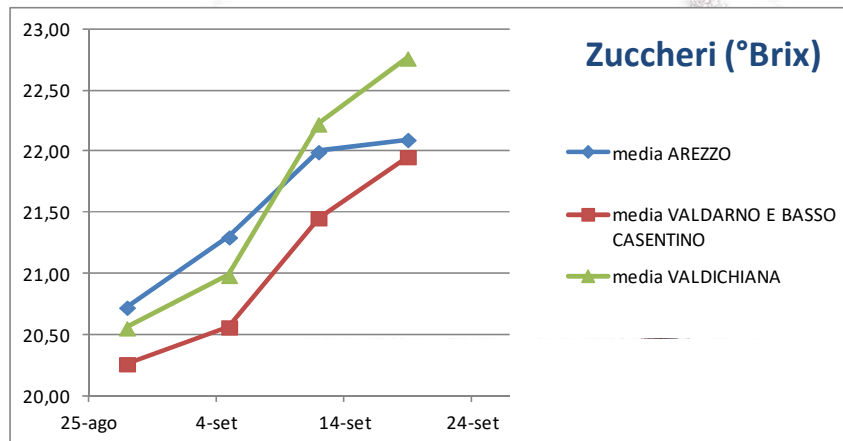
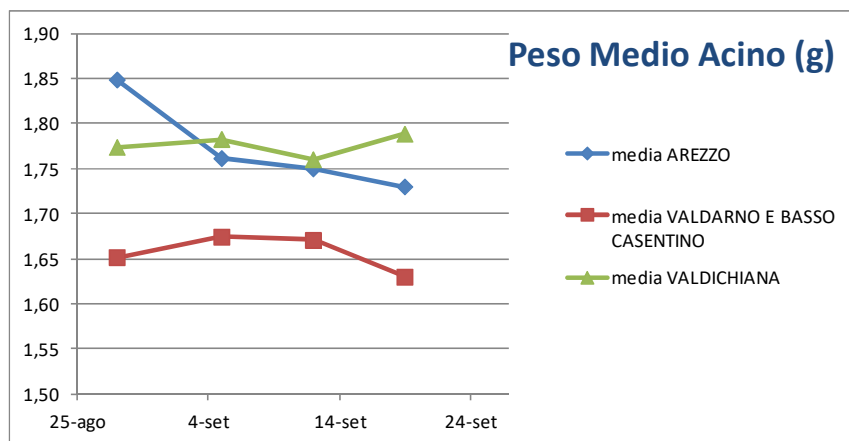
## Triennio 2016, 2017, 2018





# MATURAZIONE TECNOLOGICA: SANGIOVESE

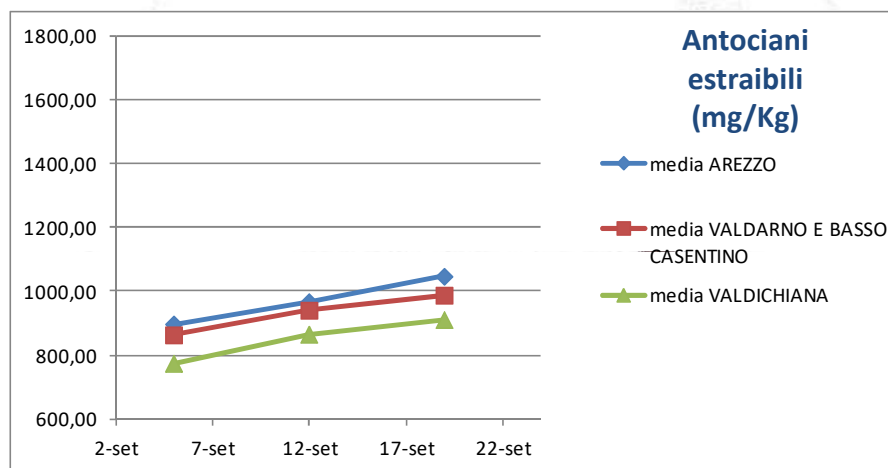
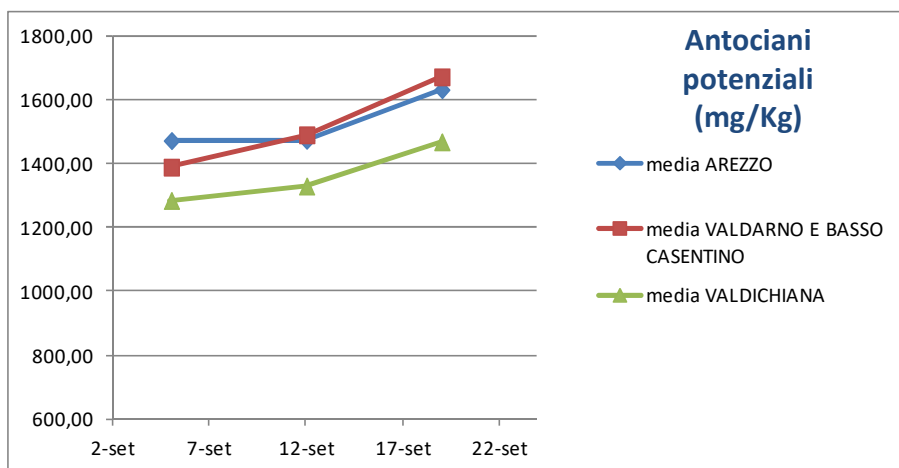
Media Triennio 16-18 per Area





# MATURAZIONE FENOLICA: SANGIOVESE

Media Triennio 16-18 per Area

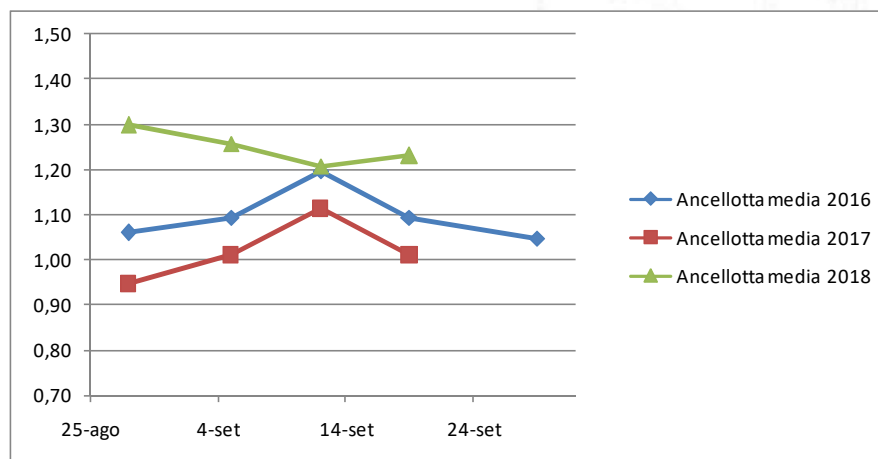
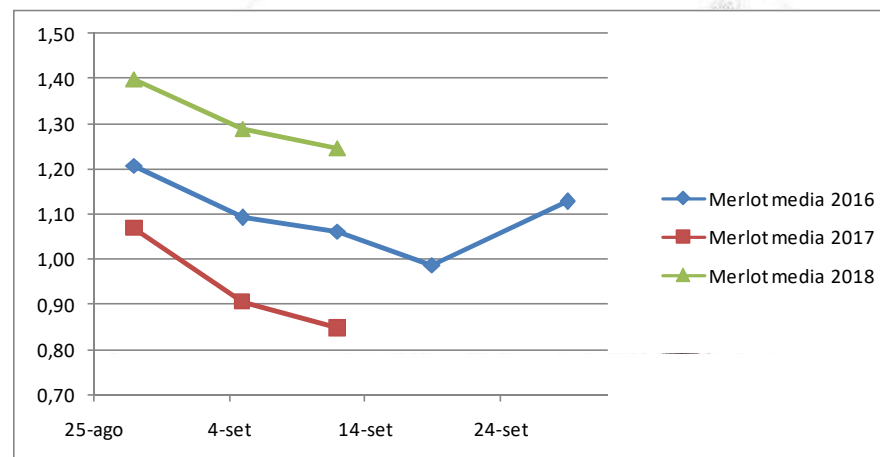
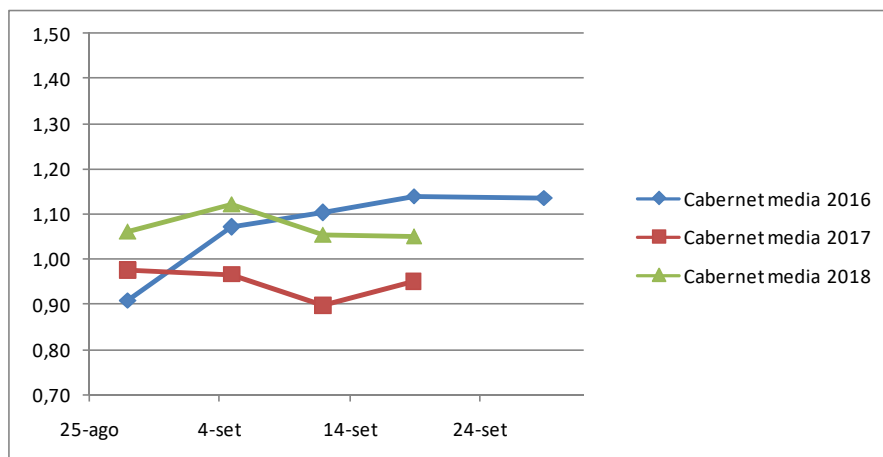






# ALTRE VARIETÀ: Peso medio dell'acino (g)

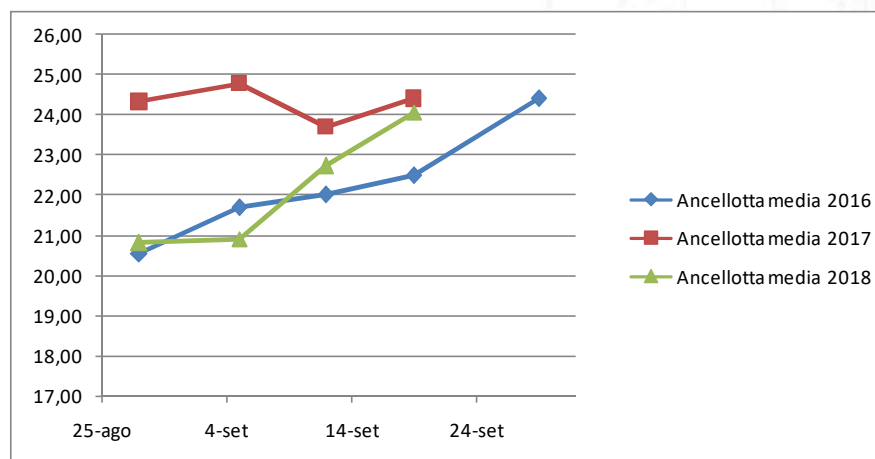
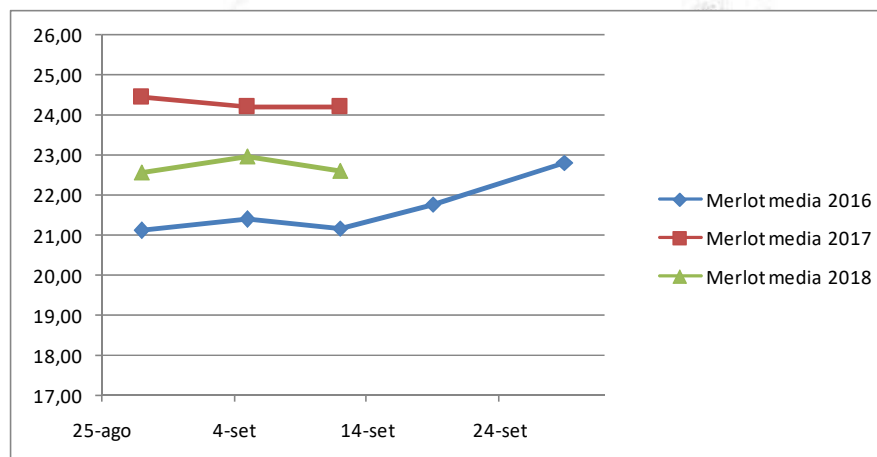
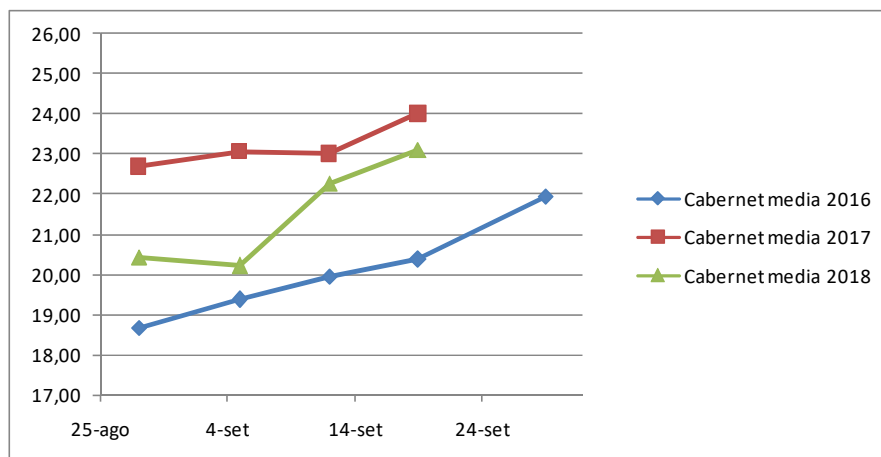
## Triennio 2016, 2017, 2018





# ALTRE VARIETÀ: Zuccheri (°Brix)

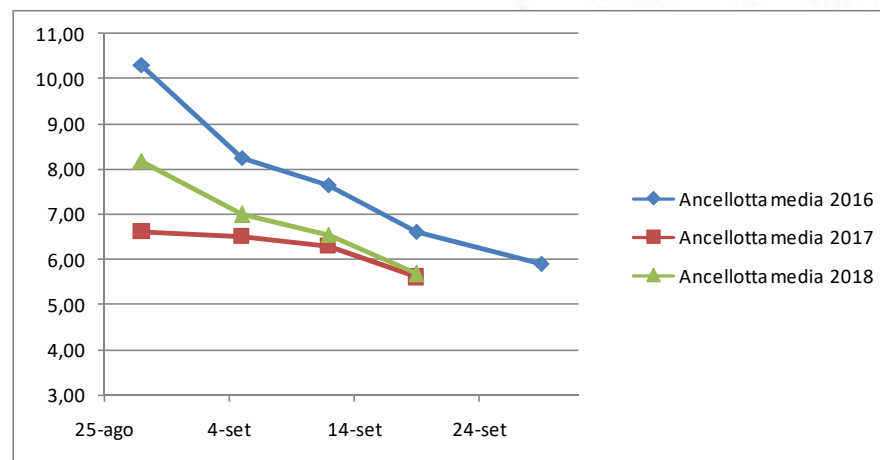
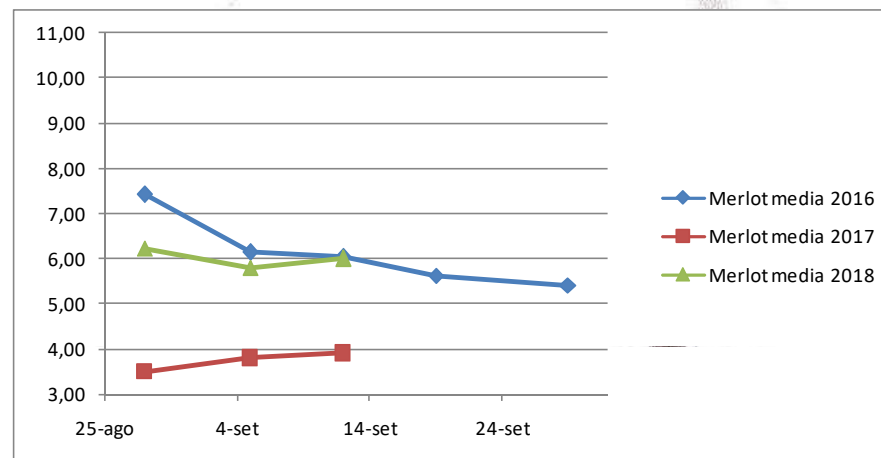
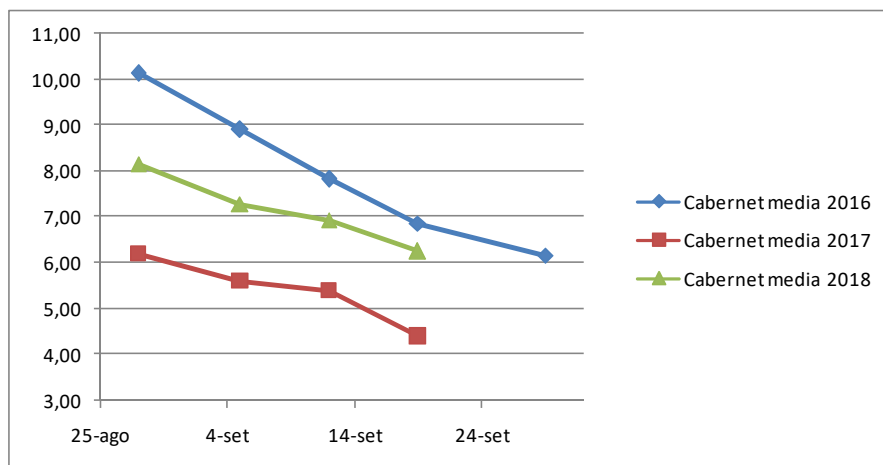
## Triennio 2016, 2017, 2018





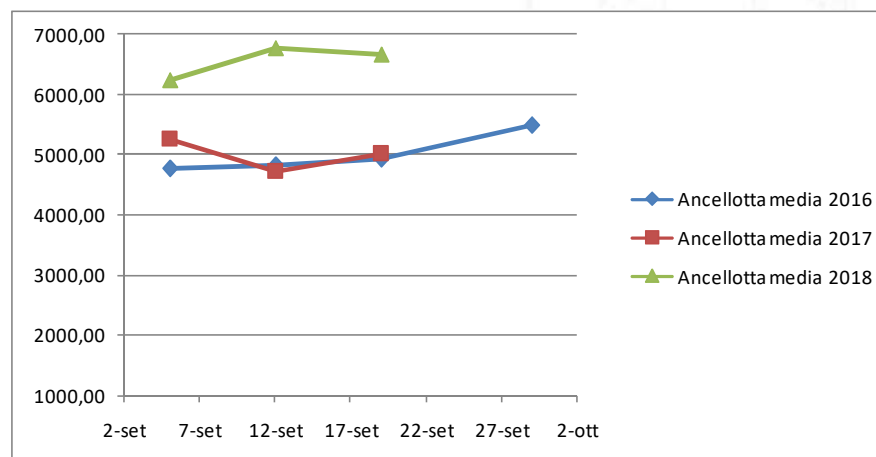
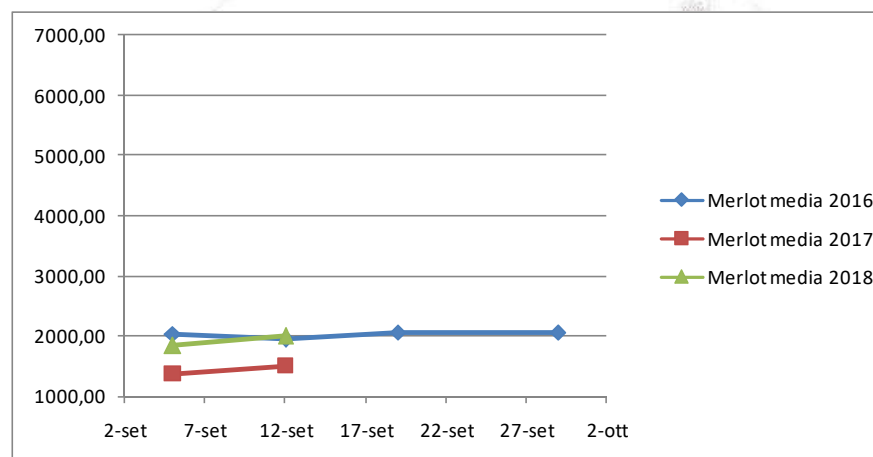
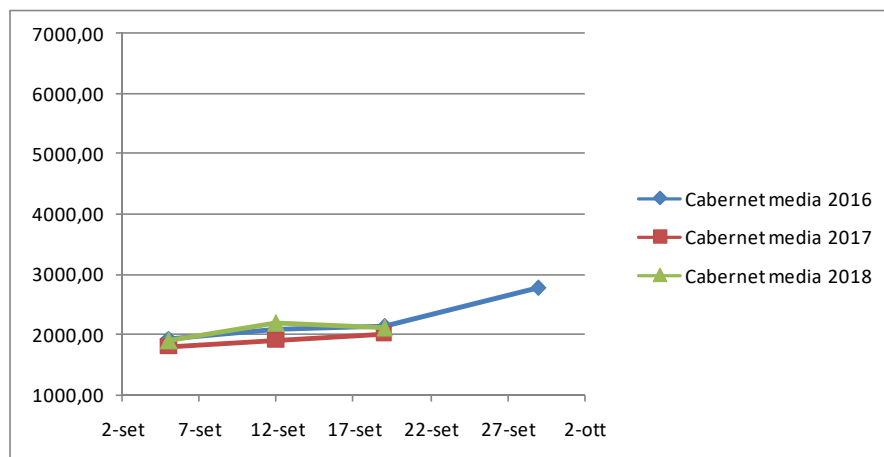
# ALTRE VARIETÀ: Acidità totale (g/L ac. Tart.)

## Triennio 2016, 2017, 2018



# ALTRE VARIETÀ: Antociani potenziali (mg/Kg)

## Triennio 2016, 2017, 2018





## Risultati dell'attività di monitoraggio:

- Protocollo: progetto QuaSAR
  - Report settimanale
  - copertura uniforme del territorio aretino
  - varietà di maggiore interesse (in particolare SANGIOVESE)
- Supporto ai viticoltori
- Miglioramento qualitativo delle uve portate in cantina
- Attività monitoraggio di 12 anni svolta dal CREA-VE su provincia AR, proseguita con successo
  - si auspica di continuare nelle prossime stagioni produttive!



# GRAZIE per l'attenzione

