

# QualityBerry WP1

Anita Sønsteby & al.



# **WP1: Environmental effects on flower and dormancy initiation and breaking of dormancy in *Rubus* and *Ribes* species**

Task 1.1. G x E interaction in *Rubus* species in controlled climate (NIBIO and Graminor)

Raspberry and blackberry:

1. Plant material of raspberry and blackberry established (2021-2022)
2. Experiments with long canes in pots in greenhouse and high tunnels (2021-2023)
3. Experiments in the phytotron planned (2022-2023).

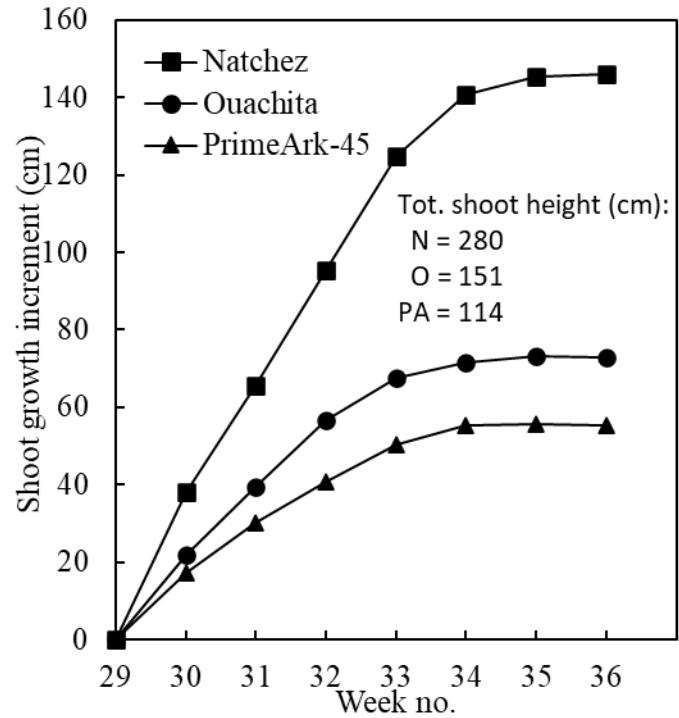
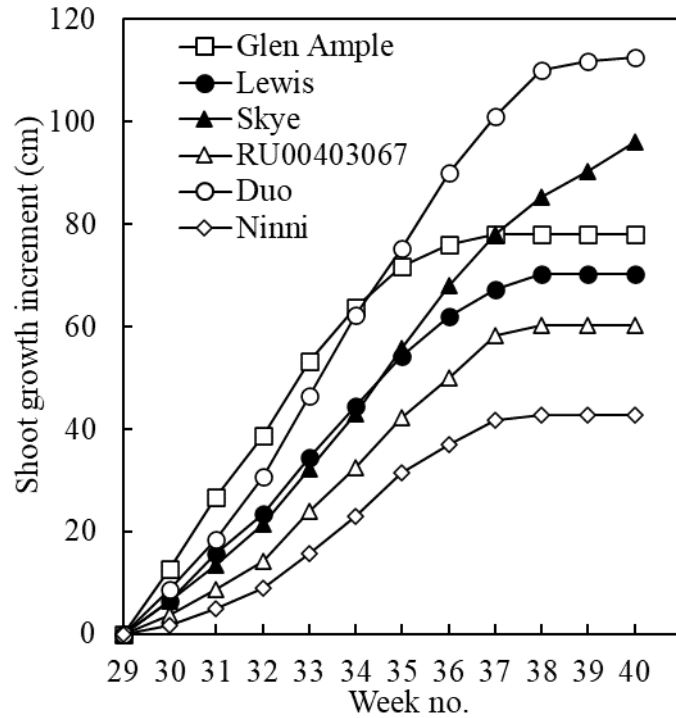
**Raspberry cultivars:**

Glen Ample, Glen Mor, Lewis, Skye, Ninni, Duo, RU00403067

**Blackberry cultivars:**

Loch Ness, Loch Tay, Natchez, Ouachita, PrimeArk-45, Sweet Royalla

# GROWTH CESSATION IN RASPBERRY AND BLACKBERRY



# **WP1: Environmental effects on flower and dormancy initiation and breaking of dormancy in *Rubus* and *Ribes* species**

Task 1.2. G x E interaction in *Ribes* species in controlled climate (NIBIO)

Red and blackcurrant:

1. Established plant material of red and blackcurrant (2021-2022)
2. Experiments in the phytotron (2021-2022)

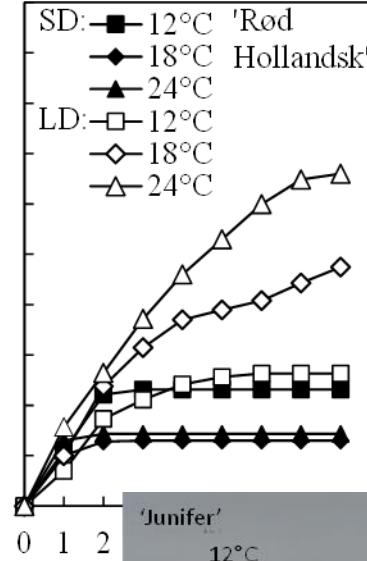
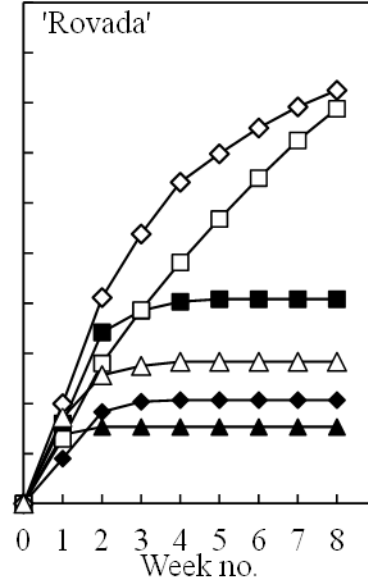
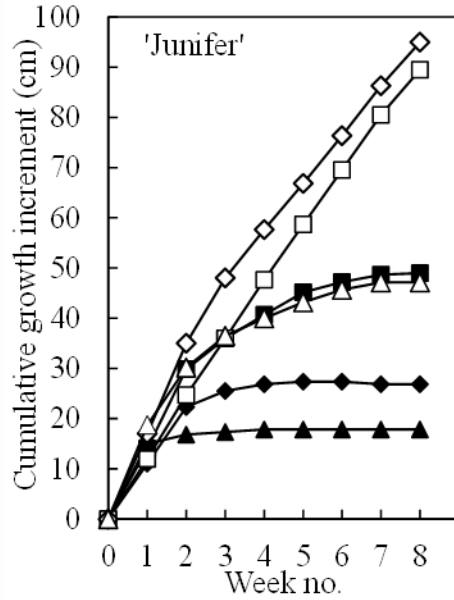
**Redcurrant cultivars:**

Red Dutch, Rovada, Rosetta, Junifer

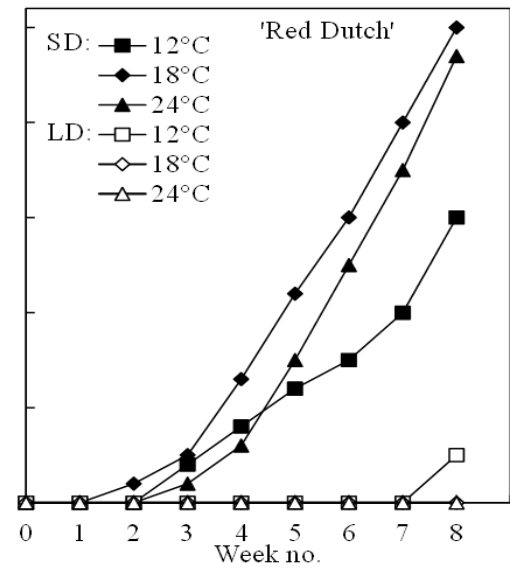
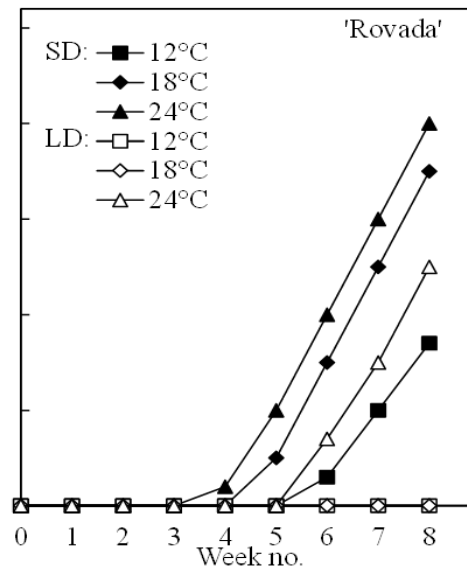
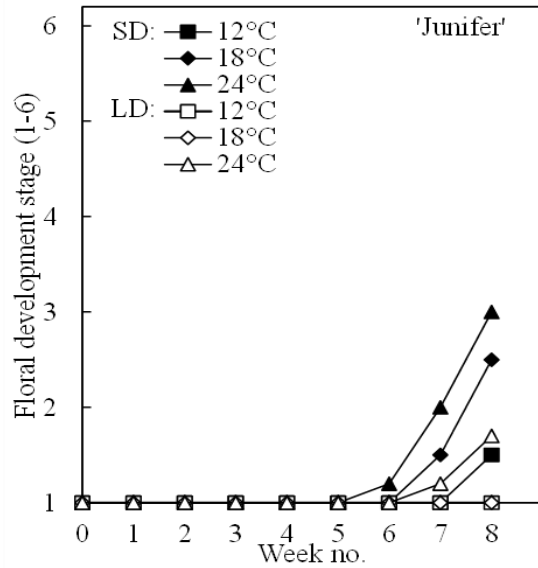
**Blackcurrant cultivars:**

Tiben, Ben Hope, Narve Viking, Augustus, Gjest, Ben Gairn, several selections

# GROWTH AND FLOWERING IN REDCURRANT



# GROWTH AND FLOWERING IN REDCURRANT



# **WP1: Environmental effects on flower and dormancy initiation and breaking of dormancy in *Rubus* and *Ribes* species**

Task 1.3. Dormancy breaking of established cultivars and advanced selections of *Rubus* and *Ribes* (NIBIO and INHORT)

1. Plants stored at 0°C and forced (Oct-Nov-Dec-Jan-Feb-Mar) in greenhouse (2020-2021)
2. Dormant shoots stored at -5, 0, 5°C for 7, 14 and 21 weeks and forced for recording of bud break (2021-2022)

## **Raspberry cultivars:**

Tulameen, Veten, Willamette, Schönemann, Glen Ample, Przehyba

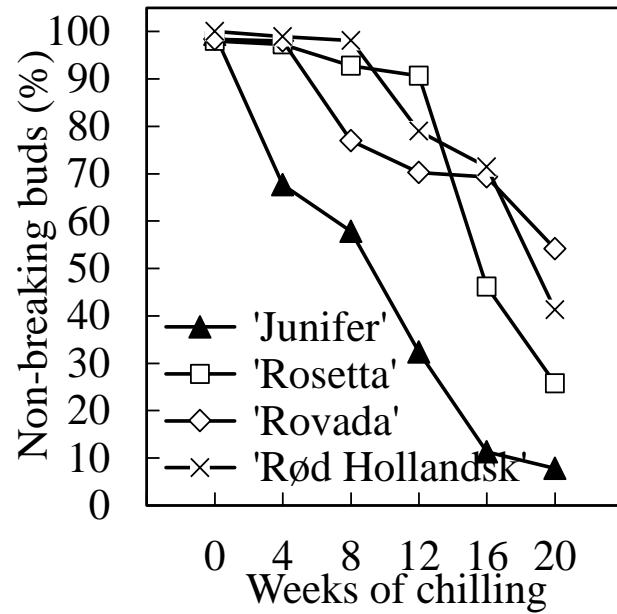
## **Blackcurrant cultivars:**

Polares, Narve Viking, Ben Tron, Ben Lomond, Tihope, Bona, Gofert, Ben Gairn

## **Redcurrant cultivars:**

Junifer, Rovada, Red Duch, Rosetta

# DORMANCY AND CHILLING REQUIREMENT IN REDCURRANT





# DORMANCY AND CHILLING REQUIREMENT IN REDCURRANT



7 weeks chilling



14 weeks chilling



21 weeks chilling

'Junifer'

# WP1: Environmental effects on flower and dormancy initiation and breaking of dormancy in *Rubus* and *Ribes* species

Task 1.4. Phenotyping overall plant performance (INHORT and NIBIO)

1. Plants of *Ribes* and *Rubus* cvs. established in field/pots for phenotyping of overall plant performance and different stages of plant development (2021-2023)

## Raspberry cultivars:

Glen Ample, Ninni, RU00403067, Tulameen, Vetem, Willamette, Schönemann, Przehyba

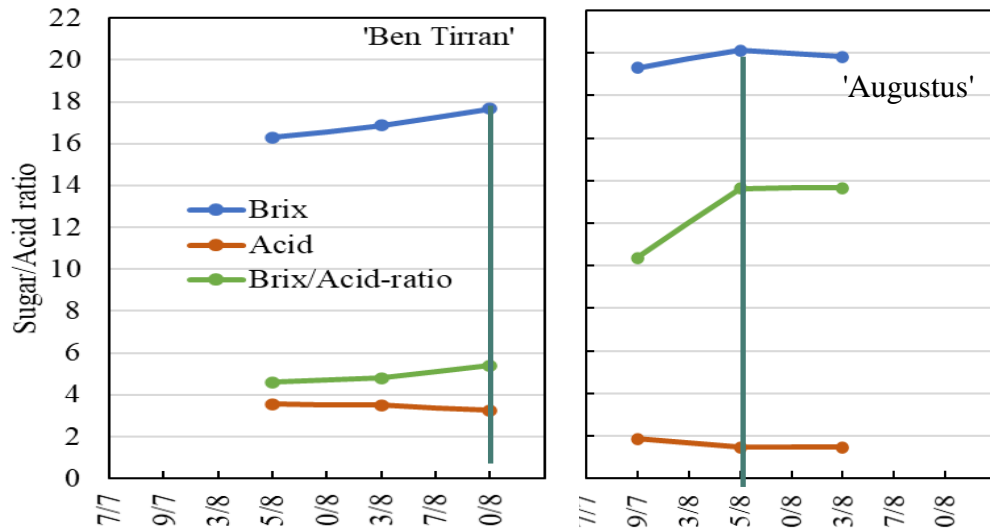
## Blackcurrant cultivars:

Polares, Narve Viking, Ben Tron, Ben Lomond, Tihope, Bona, Gofert

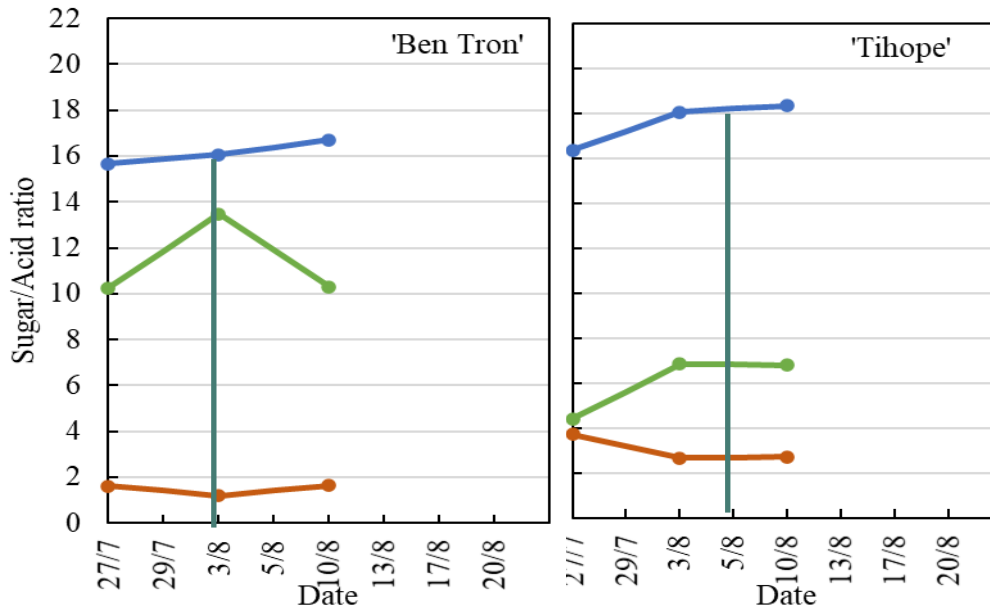
## Redcurrant cultivars:

Laprima, Leora, Red Duch, Rosetta

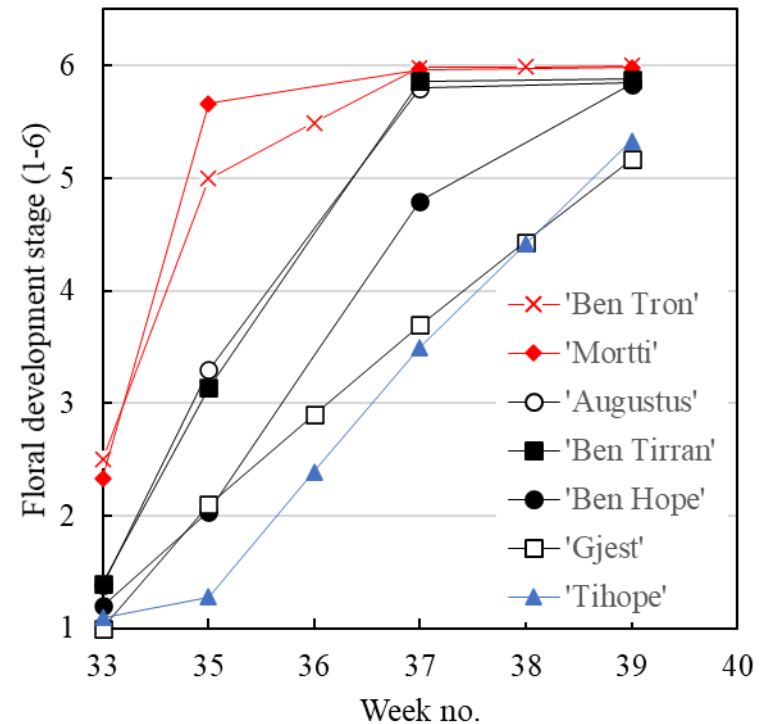
# FIELD TRIALS: PHENOTYPING AND FRUIT QUALITY



Sugar/acid ratio, and harvest time



Flower initiation in blackcurrant



**The project is implemented under the Norwegian Financial Mechanism for 2014-2020 “Working together for a green, competitive and inclusive Europe”.**

**Projekt jest realizowany w ramach Norweskiego Mechanizmu Finansowego na lata 2014-2020 “Wspólnie działamy na rzecz Europy zielonej, konkurencyjnej i sprzyjającej integracji społecznej”.**

**Thank you for your attention!**