



Improving plant quality and economy for a more sustainable and efficient berry production

Different systems of blackcurrant plant protection

Acronym: QualityBerry

Contract number: NOR/POLNOR/QualityBerry/0014/2019-00

Agata Broniarek-Niemiec, National Institute of Horticultural Research,
Skierniewice

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Task 2.4. THE HEALTH STATUS AND PRODUCTIVITY OF BLACKCURRANT MOTHER PLANTS

- Five blackcurrant cultivars: 'Ben Gairn', 'Ben Tron', 'Narve Viking', 'Polares' and 'Tihope'



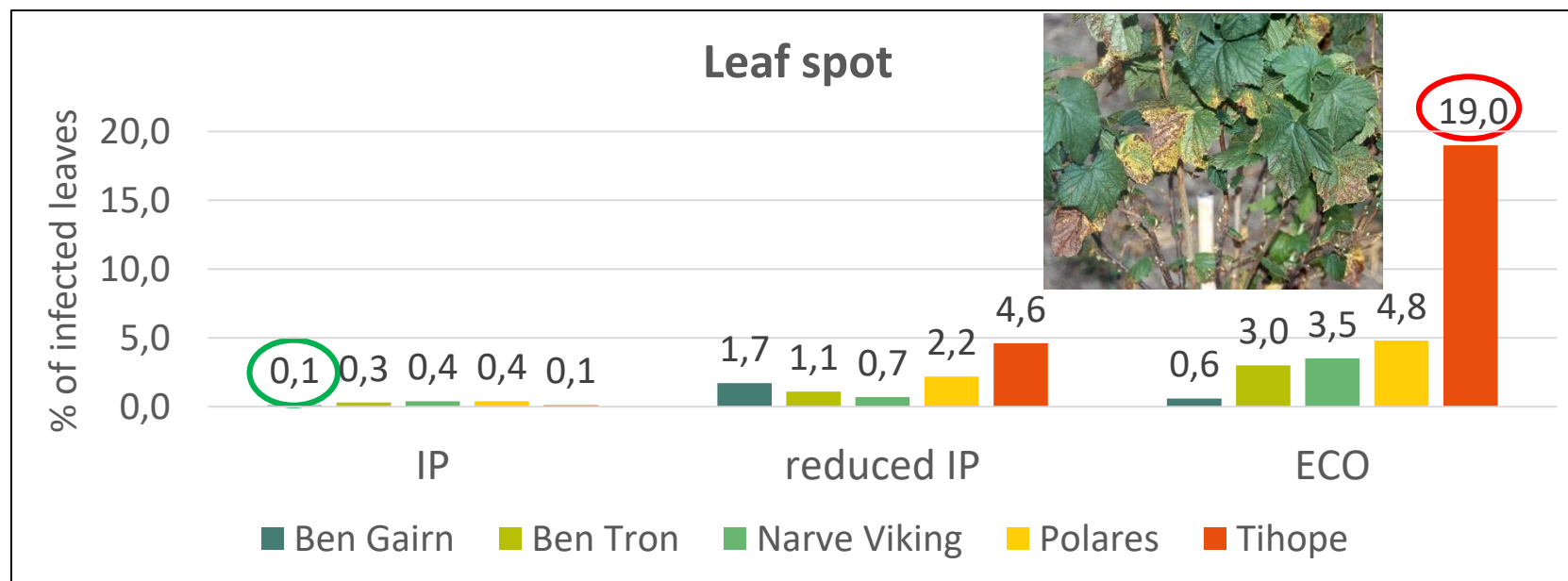
- In three fruit production systems:
 1. Integrated Protection (IP)
 2. Reduced Integrated Protection (reduced IP)
 3. Biological Protection (ECO)

Task 2.4. THE HEALTH STATUS AND PRODUCTIVITY OF BLACKCURRANT MOTHER PLANTS

Production system	Date of treatment	Fungicides and dose per 1 ha	Active substance
Integrated Protection (IP)	14.04.2022	Siarkol 80 WP – 4.0 kg	sulfur
	18.05.2022	Zato 50 WG – 0.2 kg	trifloxystrobin
	02.06.2022	Signum 33 WG – 1.8 kg	pyraclostrobin + boscalid
	20.06.2022	Luna Sensation 500 SC – 0.8 l	fluopyram + trifloxystrobin
Reduced Integrated Protection (reduced IP)	14.04.2022	Siarkol 80 WP – 4.0 kg	sulfur
	18.05.2022	Miedzian 50 WP – 3.0 kg	copper oxychloride
	02.06.2022	Zato 50 WG – 0.2 kg	trifloxystrobin
	20.06.2022	Armcarb SP – 5.0 kg	potassium bicarbonate
Biological Protection (ECO)	14.04.2022	Siarkol 80 WP – 4.0 kg	sulfur
	18.05.2022	Miedzian 50 WP – 3.0 kg	copper oxychloride
	02.06.2022	Armcarb SP – 5 kg	potassium bicarbonate
	20.06.2022	Miedzian 50 WP – 3,0 kg	copper oxychloride

Task 2.4. THE HEALTH STATUS AND PRODUCTIVITY OF BLACKCURRANT MOTHER PLANTS

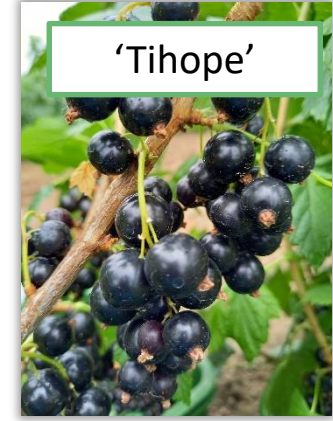
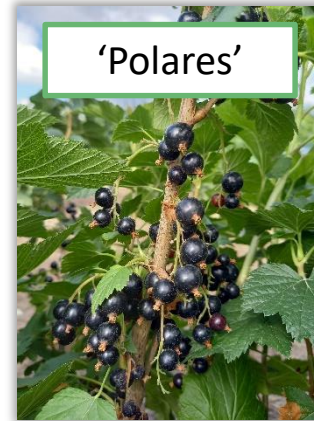
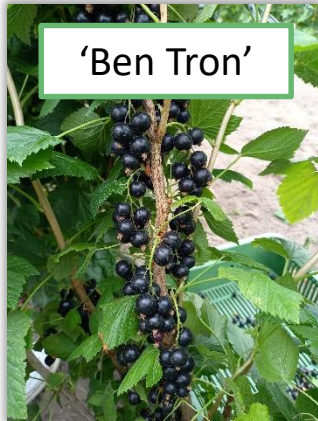
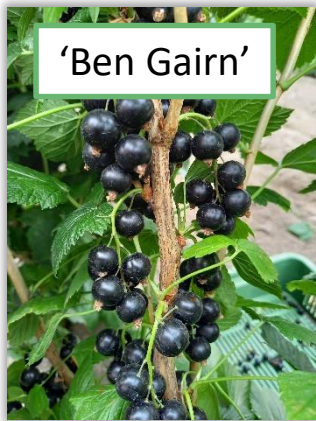
- The first assessment of disease severity – 25th July, 2022
- No symptoms of the **powdery mildew** (*Podosphaera mors-uvae*) and **white pine blister rust (WPBR)** (*Cronartium ribicola*)
- The symptoms of the **leaf spot** (*Drepanopeziza ribis*) in low severity were observed on plants of all tested cultivars in all the production systems



- The second assessment of diseases severity - in early September
- The assessment of the productivity of mother plants - autumn after the end of vegetation

Task 3.3. THE HEALTH STATUS AND YIELDING OF BLACKCURRANT

- Five blackcurrant cultivars:



- In three fruit production systems:
 1. Integrated Protection (IP)
 2. Reduced Integrated Protection (reduced IP)
 3. Biological Protection (ECO)

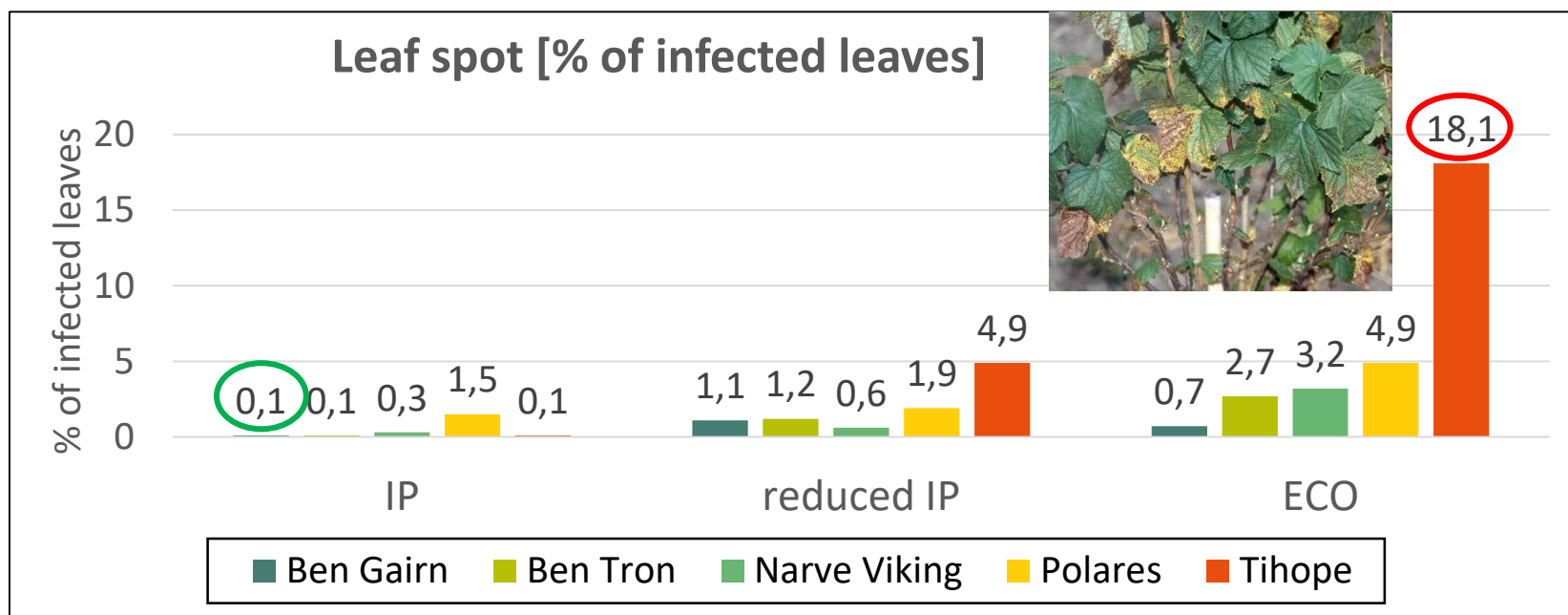


Task 3.3. THE HEALTH STATUS AND YIELDING OF BLACKCURRANT

Production system	Date of treatment	Fungicides and dose per 1 ha	Active substance
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	02.06.2022	Signum 33 WG – 1.8 kg	pyraclostrobin + boscalid
	20.06.2022	Luna Sensation 500 SC – 0.8 kg	fluopyram + trifloxystrobin
Reduced Integrated Protection (reduced IP)	14.04.2022	Siarkol 80 WP – 4 kg	sulfur
	18.05.2022	Miedzian 50 WP – 3.0 kg	copper oxychloride
	02.06.2022	Zato 50 WG – 0.2 kg	trifloxystrobin
	20.06.2022	Armcarb SP – 5 kg	potassium bicarbonate
Biological Protection (ECO)	14.04.2022	Siarkol 80 WP – 4,0 kg	sulfur
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Task 3.3. THE HEALTH STATUS AND YIELDING OF BLACKCURRANT

- The first assessment of disease severity - 25th July, 2022
- No symptoms of the powdery mildew and white pine blister rust
- The symptoms of the leaf spot in low severity were observed on plants of all tested cultivars in all the production systems



- The second assessment of diseases severity - in early September

Task 3.3. THE HEALTH STATUS AND YIELDING OF BLACKCURRANT

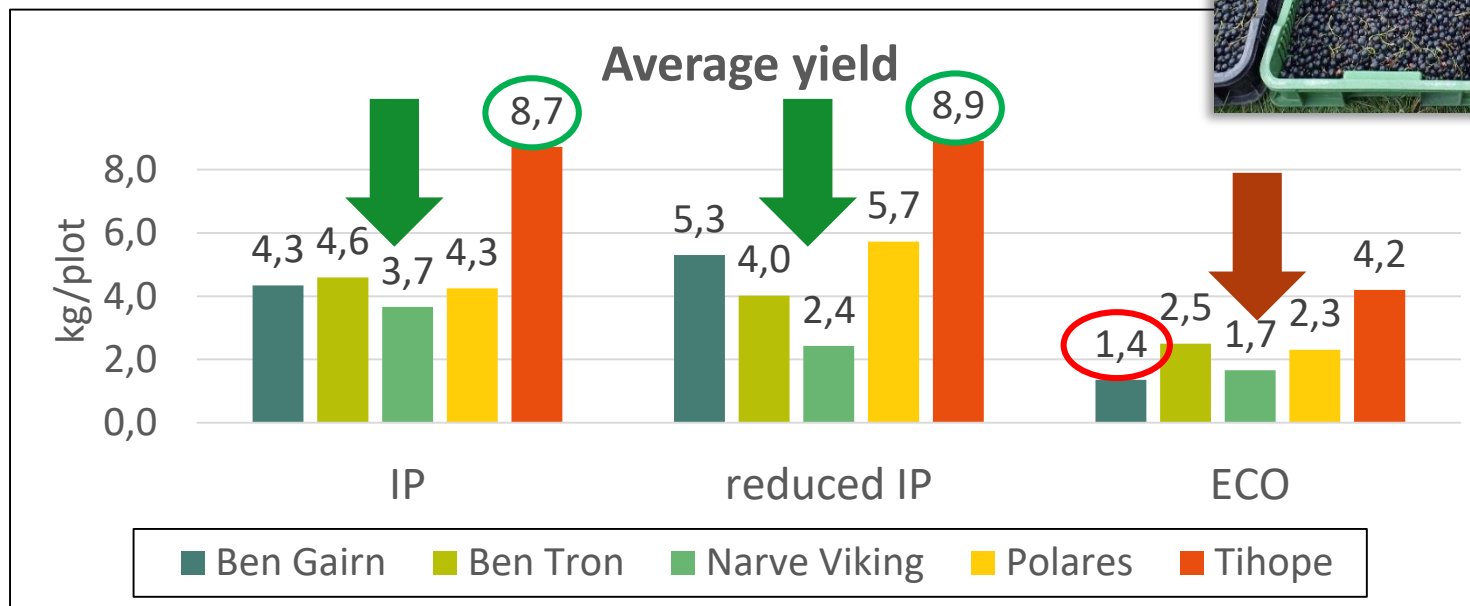
- Harvest of blackcurrant:

5th July – ‘Ben Gairn’ and ‘Ben Tron’

11th July – ‘Tihope’

12th July – ‘Polares’

15th July – ‘Narve Viking’



- In any tested samples, no exceedances of the maximum residue levels (MRLs) of pesticide were found.

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”.

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