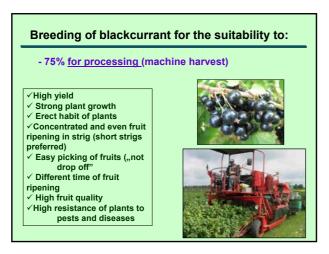
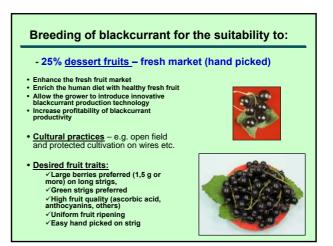
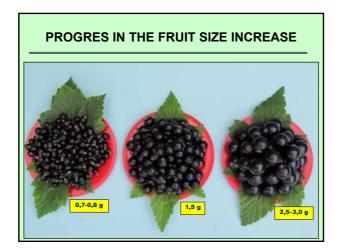


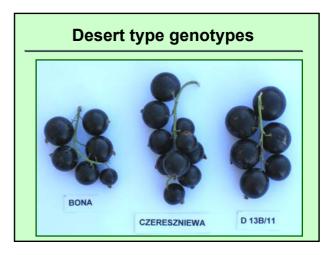
Main breeding directions

- Breeding for resistance to main pests and diseases (including gall mite and reversion virus –BRV)
- Breeding for fruit quality:
 - **1. Processing and freezing** (high content of anthocyanins, ascorbic acids, acidity and soluble solids Brix)
 - 2. Fresh consumption (large and attractive fruits, sweet taste and aroma, uniform ripening, high quality)
- Breeding for good adaptation to local weather and soil conditions as well as for suitability to the mechanical fruit harvest















New blackcurrant cultivars bred at the Research Institute of Pomology in Skierniewice, Poland

• released and registered on the National List in Feb. 2009



GOFERT

Very productive,
Fruits – large and medium
size, good taste, reach in
ascorbic acid – vitamin C
and extract,
Suitable for fresh market
and for processing.
Plants resistant to fungal
diseases.
Recommended for amateurs
and commercial plantations,
including "IP" and organic.

Assessment of the suitability of new Polish blackcurrant cultivars for commercial with machine fruit harvesting





AIM OF EXPERIMENT:

Evaluation of suitabilty of new, Polish blackcurrant cultivars ('Tisel', 'Tiben', 'Ores', 'Ruben' and 'Tines') for commercial cultivation with picking fruits by harvesters.





Studies were carried out on the experiment (plantation – c. 3,0 ha) situated on the field of the Experimental Orchard at Dabrowice (near Skierniewice), Central Poland

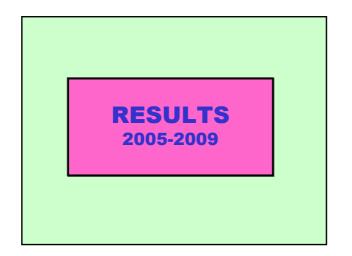


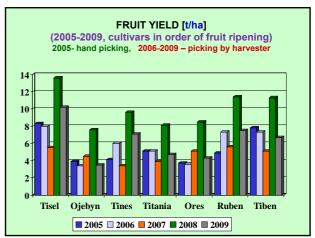
- Experiment established in autumn of 2003
- New Polish cultivars: 'Tisel', 'Tiben', 'Ores', 'Ruben' and 'Tines'
- <u>Standard cultivars:</u> 'Ojebyn'
 and 'Titonia'
- Studies condacted : 2005- 2009

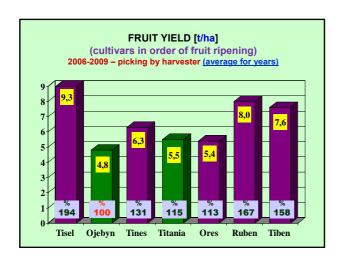
Experiment was establish in random block design in 4 replications, with 50 bushes/plot, planted in the density of $\frac{3.80 \times 0.50 \text{ m}}{\text{c}}$ (c. 5 000/ha). Bushes of each cultivar were grown in separated and neighboring rows of a length of c. 270 m.

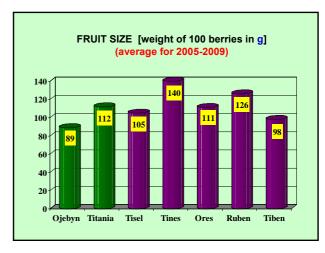
The following traits were studied:

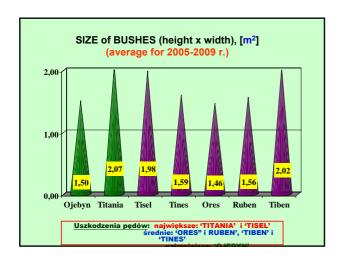
- 1. Date of ripening (harvesting) of fruits
- 2. Fruit yield [kg/plot] or [t/ha]
- 3. Weight of 100 fruits [g]
- 4. Size of bushes (hight x width) [m²]
- Susceptibility to fungal diseases [ranking scale 1-5], 1 no symptoms of infection, 3 medium infection, 5 very strong infection of plants,
 - American powdery mildew (Sphareotheca mors-uvae)
 - Leaf spot (*Drapenopezizia ribis*)
 White pine blister rust WPBR (*Cronatrium ribicola*)
- White pine blister rust WPBR (*Cronatrium ribicola*)
 Damages of plants by the harvester during fruit picking
- Losses of the fruit yield (left on bushes and dropped off to the ground) [kg/bush] and [kg/ha]
- 8. Accuracy (effectiveness) of fruit harvesting by the self-propelled "KPS-4b" Polish made harvester [%].

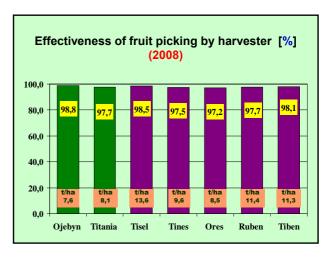


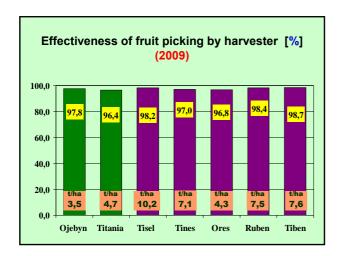












	eptibility of pla ge for 2006-200	•	
Cultivar	Susceptibility of plants to fungal diseases		
	American powdery mildew	Leaf spot	White pine blister rust
1. Ojebyn	1,0	3,7	2,7
2. Titania	1,0	2,5	1,0
3. Tisel	1,0	2,9	1,0
4. Tines	1.0	3,4	1,8
5. Ores	1,0	2,7	1,0
6. Ruben	1,0	2,9	1,0
7. Tiben	1,0	2,0	1,2

SUMMARY:

- New Polish cultivars ('Tisel', 'Tiben', 'Ruben', 'Tines' and 'Ores') confirmed their high production value.
 They produce medium-sized or large fruits. Plants are highly resistant to serious fungal diseases.
- 2. All new Polish cultivars tested in this experiment showed the good usefulness for the fruit picking by harvester. In this respect they equal with standard cultivar 'Ojebyn', they exceed the second standard cultivar 'Titania'.
- 3. Carrying out the blackurrant breeding program we can continuously increase the production potential of cultivars in Poland. Implementation of new and reliable cultivars will have considerable influence for optimizations of the production of this fruit in Poland and fortifying our position in world.

