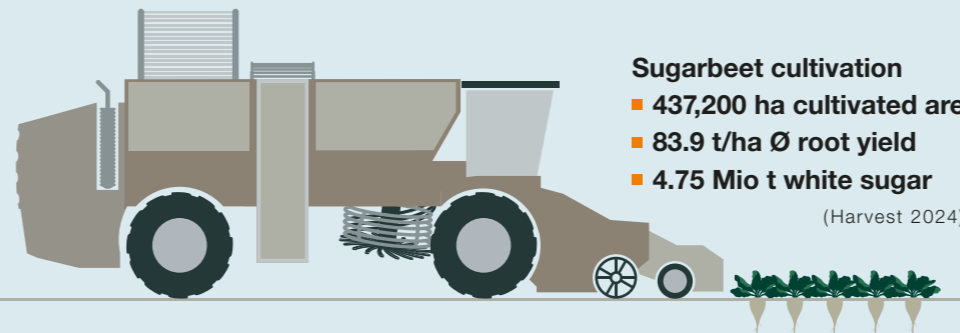


Sugarbeet

high yielding, sustainable, sweet



Sugarbeet cultivation

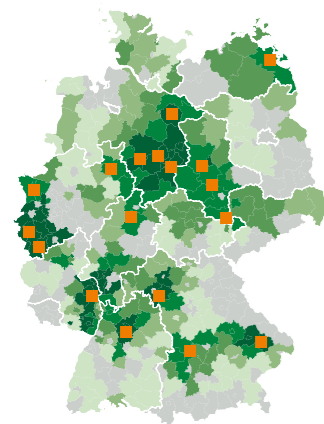
- 437,200 ha cultivated area
- 83.9 t/ha Ø root yield
- 4.75 Mio t white sugar (Harvest 2024)

SEEDING THE FUTURE SINCE 1856



Cultivation

Sugarbeet cultivation in Germany



Percentage of sugarbeet cultivated land

- 0/ no data
- bis < 1
- 1 bis < 2
- 2 bis < 4
- 4 bis < 8
- ≥ 8

■ Sugar factories

Sugarbeet covers 3.75% of the total arable land in Germany

Sugar from sugarbeet worldwide



- 20% of the sugar worldwide is produced from sugarbeet.
- The EU is the largest producer of beet sugar, accounting for 50% of total production.
- GER, FR and PL are the leading sugar producers in Europe.

Agronomic benefits



Breaking up the crop rotation
Summer and leaf crops.



Deep rooting plant
Improved soil structure. Absorption of nutrients and water from deeper soil layers.



N-efficiency
Adjusted N balances. Low nitrate levels in the soil before winter.



Soil protection
Mulch sowing, intercropping, long vegetation period.

Breeding

The most important breeding goals



Yield increase/stability

- Sugar yield (root yield and sugar content)
- Technical quality
- Bolter resistance



Resistance to diseases and pests

- Resistances + tolerances
- Herbicide tolerance

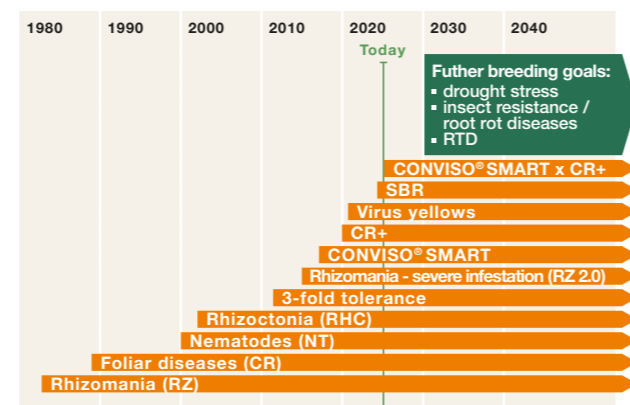


Nutrient efficiency and sustainable use of resources (e.g. fertilizers).



Stress tolerance against abiotic stress (e.g. drought).

Breeding milestones



Breeding progress in yield performance, sugar content and tolerances.
Our breeding program is based on almost 170 years of experience.

Yield progress about 2% yearly



Innovative seed treatment solutions support the development of sugarbeet.

Efficient use of resources

Local raw material



Beet sugar is a regional product made from local sugarbeet.

About 90,000 plants per ha



Sugarbeet produces highest nutritional energy per hectare.



6 - 7 sugarbeet are needed to produce 1 kg of sugar.

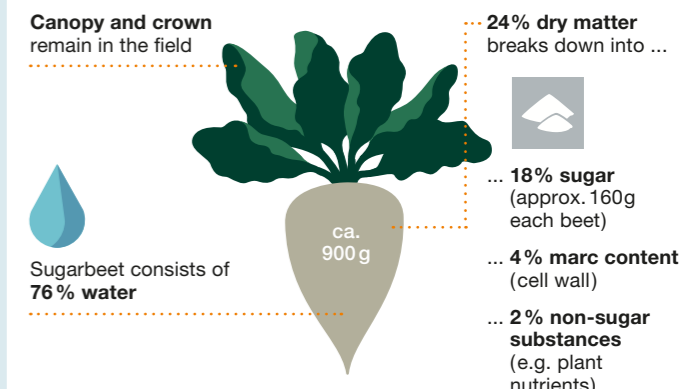
Diverse environmental benefits



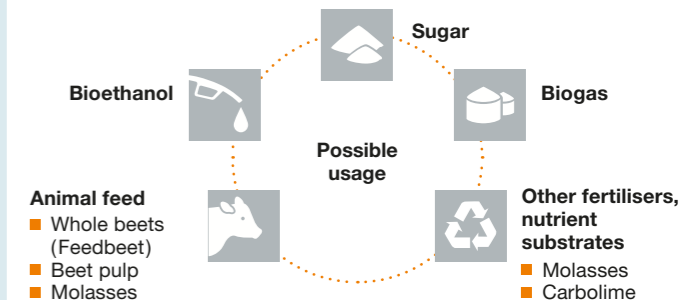
- The sugarbeet actively contributes to **water and soil protection**.
- Integrated crop protection**
 - Through tolerant sugarbeet varieties.
 - As a summer crop and leaf crop, beet cultivation supports the resistance management for grass weeds and breaks infection cycles of pathogens in cereals.

Possible usage

Composition of the sugarbeet



100% usage of sugarbeet



Usage of sugar in Germany

