

UNION ZUR FÖRDERUNG VON OEL- UND PROTEINPFLANZEN E.V.



RAPESEED: A VERSATILE CROP

**Everything begins in August with
2.5 kg of seeds per hectare ...**



CULTIVATION*

Total cultivation area

in Germany: 1.38 million hectares (13,800 km²)

Although it appears as though more and more rapeseed is being cultivated, this impression is deceptive. For many years now, rapeseed cultivation in Germany has varied constantly between 1.3 and 1.5 million hectares.

Germany
(357,375 km²)

5.3 x
Luxembourg
(2,586 km²)

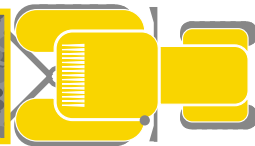
* Baseline measurement 2013–2015

HARVEST*

More than oil...

Rapeseed is well-known for its high-quality oil. However, the seeds comprise not only about 42 percent oil but also high-quality protein, which is also extracted during pressing. As rapeseed cake (cold pressing) or rapeseed meal (extraction), it represents a sought-after, domestic protein that has not been modified genetically.

5.7 million tonnes
of rapeseed in Germany/year



2.3
million tonnes
rapeseed oil

3.4
million tonnes
animal feed

* Baseline measurement 2013–2015

1 hectare of rapeseed provides ...



1,600 kg
rapeseed oil
approx. 3,300 bottles



2,500 kg
rapeseed meal
= protein (fodder) for 3 milk cows/year



40 kg
rapeseed honey
80 glasses

RAPESEED EXTRACTION MEAL

3,400,000t

Amount

Over 3.4 million tonnes
protein animal feed
not genetically modified



Side effect

Saving of approx. 1.3
million hectares soybean
cultivation in South America



Application areas

High-quality protein feedstuff
for cows and supplementary
component in pig and
poultry feed

RAPSEED FUEL



Over 50% reduction
in greenhouse gas emissions
= ~ 2.7 million tonnes CO₂ reduction/
year in comparison to fossil fuels



69% of Germans have a positive
image of biofuels¹



The total rapeseed harvest is
certified as sustainable

¹ Survey by TNS Infratest 01/2016

Sales 2014 in Germany



1.400.000 T

Rapeseed oil for biodiesel production

5.500 T

as plant fuel (PÖL)

5.000 T

Biodiesel as pure fuel

RAPeseed EDIBLE OIL

41.1 %



**Most popular edible
oil in Germany
(market share 2015)**

78.5 million



**Litres,
sales volume
2015**

Valuable

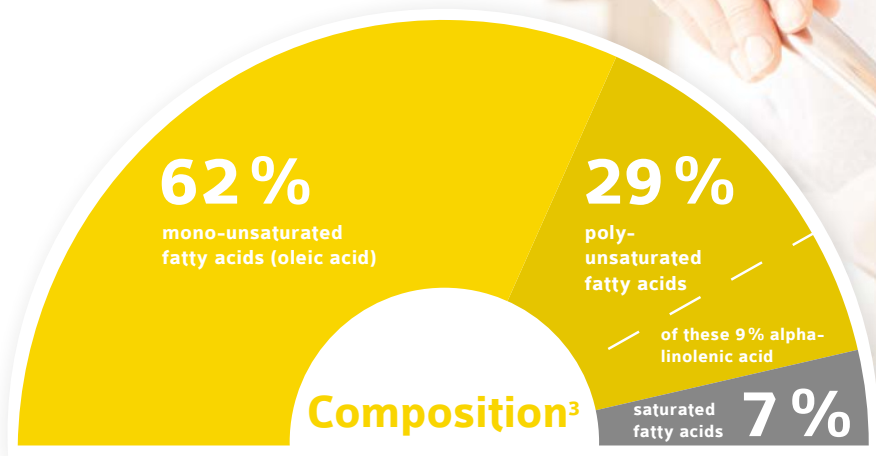


**High content of alpha-
linolenic acid¹
High content of mono-
unsaturated oleic acid²**

¹ Helps maintain a normal blood cholesterol level

² Helps maintain a normal blood cholesterol level if it replaces saturated fatty acids in food

Nutrition experts recommend rapeseed oil on account of its favourable fatty acid profile. It scores well with a high content of valuable omega-3 fatty acids in the form of alpha-linolenic acid, which helps to maintain a normal blood cholesterol level.

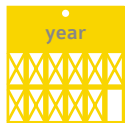


³Source: Prof. Dr. Helmut Heseker

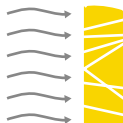


Benefits of rapeseed cultivation

Rapeseed provides many benefits for farmers thanks to its individual properties, which make rapeseed an indispensable element in crop rotation today. Amongst other things, it contributes to improving soil quality and increasing the yield of subsequent crops.



**11-month
ground cover**



**Aeration
of the soil**



Reduced erosion



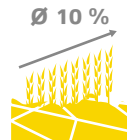
**Reduced
nitrate leaching
in winter**



Function as
recovery crop

6t

Humus formation, through
6t biomass/year and
6 – 7 t root mass/year



High previous crop effect
= higher yield



Saving in
fertilizers
for subsequent crop

+ 1 Mio. t/year



Additional yield for winter
wheat as typical
subsequent crop

1:1.6

Corn-straw
ratio



28

km/m³ primary and
secondary roots



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