

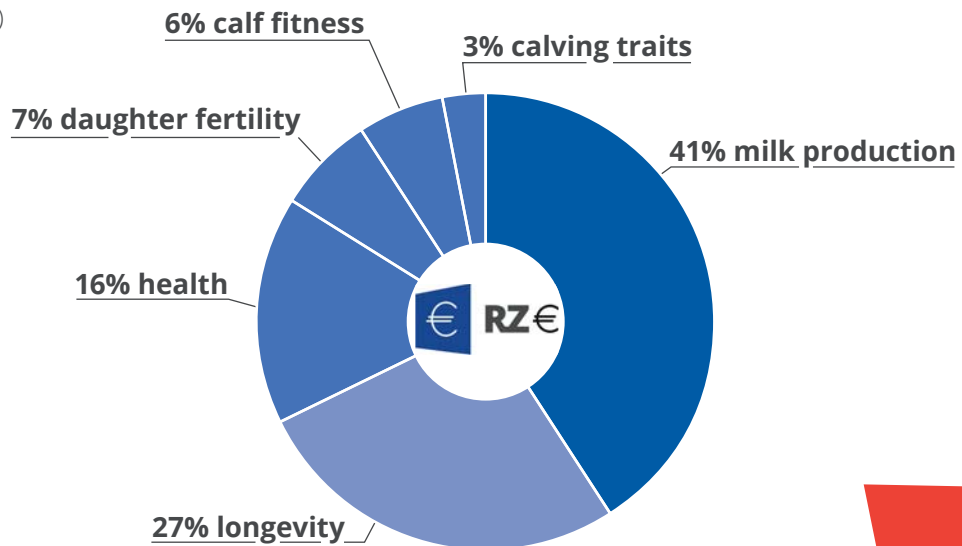
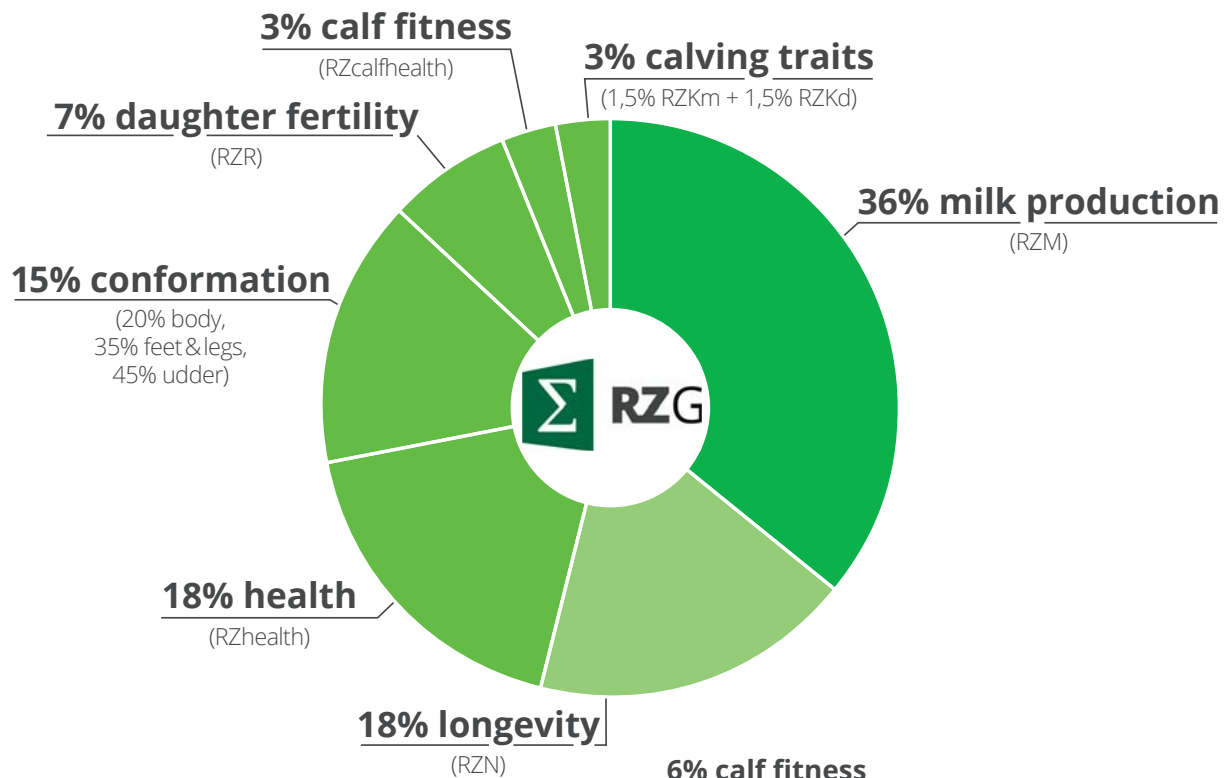
GERMAN HOLSTEIN

Quality and Innovation since 1876

GERMAN LIVESTOCK
ASSOCIATION



The German breeding values



Holstein breeding in Germany

GERMAN BREEDING VALUES

- RZG – balanced Total Merit Index with focus on milk production, health, longevity and conformation
- RZ€ – purely economic Net Merit Index, which indicates the monetary advantage of breeding animals expressed in Euros
- both breeding indexes stand for balanced, long-living, healthy and high-performing cows
- over 50 different individual breeding values
- direct health breeding values for the most common diseases



DATA QUALITY

- 90% of the German Holstein cattle participate in the official milk recording scheme according to ICAR standards
- 20% of the registered cows are genotyped
- breeding value assessment by the ICAR accredited data center (vit) is under the supervision of state regulators
- genomic selection based on a mixed training set of more than 43,000 bulls and 225,000 cows guarantees the highest breeding success
- about 50% to 80% reliability of genomic breeding values
- information on genetic traits for A. I. bulls



EXPORT

- international demand for German Holstein genetics
- supervised transportation for high animal welfare
- reliable contacts in Germany
- more than 80,000 exported heifers per year
- semen exports to more than 70 countries
- veterinary services based on OIE principles
- perfectly adapted to a wide range of farm structures and climates
- top products for the global dairy industry





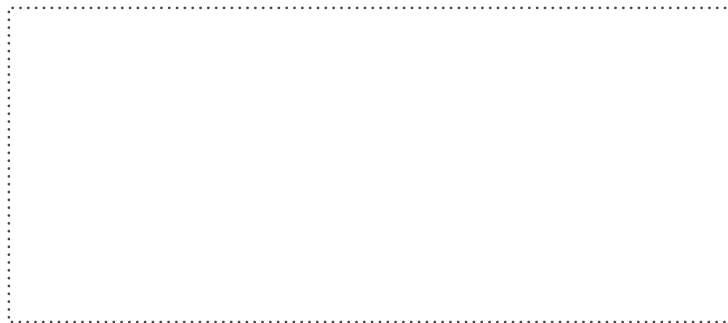
GERMAN HOLSTEINS IN NUMBERS

- 2.4 million Holstein cows in Germany
- 2.2 million (90%) German Holstein cattle under official milk recording
- 1.8 million (70%) registered as purebreds in herdbook
- 14,000 (50%) herdbook breeders
- 10,000 kg average milk yield per lactation



INNOVATION AND SELECTION

- genomic selection since 2010
- internationally recognized Total Merit Index (RZG)
- economic Net Merit Index (RZ€)
- cutting edge breeding technologies
- health breeding values for more animal welfare
- world leader in polled genetics



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