

Country	Germany
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<b><u>Trait category:</u></b>	<b><u>Individual trait(s):</u></b>
Growth & beef	Daily gain Muscularity Net gain Carcass conformation Meat content

### **Coordination:**

Arbeitsgemeinschaft Deutscher Rinderzüchter E.V. (A.D.R.)  
Adenauerallee 174  
D-53113 Bonn, Germany  
Telephone +49 228 91447 0  
Facsimile +49 228 91447 11

All breeds restricted to Bavaria and Hessen:

Landeskuratorium der Erzeugerringe für Tierische Veredlung  
Haydnstr. 11  
D-80336 München, Germany  
Telephone +49 89 5443480  
Facsimile +49 89 54434810

All breeds restricted to Baden-Württemberg:

Landesamt für Flurordnung und Landesentwicklung  
EB21  
D-70806 Kornwestheim  
Telephone +49 7154 139368  
Facsimile +49 7154 139499

**GERMANY**

<b>Growth &amp; beef traits</b>	a)	Daily gain
	b)	Muscularity
	c)	Net gain
	d)	Carcass conformation
	e)	Meat content
<b>Breed(s)</b>	a-e)	Bavaria: Fleckvieh, Braunvieh, Gelbvieh
	a-d)	Baden-Württemberg: Fleckvieh, Braunvieh, Vorderwälter
	a,b)	Hessen: Fleckvieh
<b>Trait definition and unit(s) of measuring</b>	a)	Daily gain between 112 and 420 days (for Bavaria and Hessen), between 112 to 350 days (for Baden-Württemberg), and between birth and sale
	b)	Scored on linear 1-9 point scale
	c)	Carcass weight (in grams) divided by age at slaughter (in days)
	d)	Scored on EUROP-grading system
	e)	(Weight of pure meat x 100) divided by carcass weight
<b>Type of recording and evaluation</b>	a)	Own performance at test station or at field (auction sales)
	b)	Own performance at test station or at field (auction sales); progeny test (male) at test station or at test farm
	c)	Progeny test (male) at station (112 to 450 days), at test farm, or at commercial abattoir
	d)	Progeny test (male) at test station, at test farm or at commercial abattoir
	e)	Progeny test (male) at test station or at test farm
<b>Time period for data inclusion</b>	a-e)	Since 1980
<b>Genetic parameters</b>	a)	$h^2_{\text{daily gain (test station)}} = 0.40$ $h^2_{\text{daily gain (field test)}} = 0.15$
	b)	$h^2_{\text{muscularity (test station)}} = 0.40$ $h^2_{\text{muscularity (field test)}} = 0.20$
	c)	$h^2_{\text{net gain (test station)}} = 0.40$ $h^2_{\text{net gain (test farm)}} = 0.33$ $h^2_{\text{net gain (abattoir)}} = 0.13$
	d)	$h^2_{\text{carcass conformation (progeny test station)}} = 0.30$ $h^2_{\text{carcass conformation (test farm)}} = 0.27$ $h^2_{\text{carcass conformation (abattoir)}} = 0.09$
	e)	$h^2_{\text{meat content (progeny test station)}} = 0.57$ $h^2_{\text{meat content (test farms)}} = 0.57$
<b>Sire categories evaluated</b>	a-e)	AI and NS sires
<b>Environmental effect pre-adjustment</b>	a-e)	None

<b>Growth &amp; beef traits</b>	a)	Daily gain
<i>continued</i>	b)	Muscularity
	c)	Net gain
	d)	Carcass conformation
	e)	Meat content
<b>Environmental effect evaluation model</b>	a,b)	Own performance on test station: station x season within year, 3 month season
		Own performance test on field test: market place x season within year, 3 month season
	b,e)	Progeny test on test station: finishing group within test station
	c,e)	Progeny test on test farms: age at start of finishing start (linear regression), finishing group within test farm
	c,d)	Progeny test on abattoirs: farm x finishing year, finishing season within year (subsequent 1 month), parity, multiple birth, visible fat score, age at slaughter (cubic regression)
<b>Base for age adjustment</b>	a,b)	Own performance test: none
	b,e)	Progeny test on test station: none
	c,e)	Progeny test on test farms: age at finishing start - population mean
	c,d)	Progeny test on abattoirs: age at slaughter - population mean
<b>Method (model) of genetic evaluation</b>	a-e)	MT BLUP AM, one evaluation together for all districts
<b>Evaluation system validation</b>	a-e)	-
<b>Expression of proof</b>	c-e)	EBV in original units of measuring Beef index: EBV with M = 100 and SD = 12 2.00 net gain + 30.00 x percentage meat content + 3.60 x carcass conformation
<b>Genetic (reference) base</b>	a,b,d)	Separate traits have a fixed base: all breeding bulls born in 1983-1985 Beef index has a rolling base, all AI bulls born 7-10 before evaluation year
<b>Criteria for official publication of sire proofs</b>	a-e)	REL ≥ 0.30
<b>Number of evaluations/publications per year</b>	a-e)	Four (for Bavaria and Hessen) Twelve (for Baden-Württemberg)
<b>Use in total merit index</b>	a-e)	No
<b>Key reference on methodology applied</b>	a-e)	Schild, H.J., 1988. Proc. 3 <sup>rd</sup> World Congress in Paris, p. 362-365 Averdunk, G., 1988 SD 852 BLT Grub Wenzler, 1980. Thesis, Hohenheim Werkmeister, 1991. Polycopy, MLR, Stuttgart