



Breeding evaluation in the Danish Warmblood society

Danish Warmbloods at the Olympic Games 2008





General facts

- Reference population: all stallions with at least 15 tested progeny (fixed base)
- Publication scale:
Mean 100 and standard deviation 20

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Calculation of two different EBV

- Young horse EBV since 1990
- Competition EBV since 2005

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Young horse EBV

- Single trait BLUP animal model
- Fixed effects: region/place and year

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Young horse EBV



Information from young horse tests:

- Field test of mares (1 day)
- Station test of mares (30 days)
- Performance test of stallions (earlier 70 days, now 35 days)
- Ability test of 4- year-old horses (1 day)

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Young horse EBV

Dressage related traits

- Walk
- Trot
- Canter
- Rideability/Capacity
- Total gait score

Heritability

0,20

0,32

0,20

0,22

0,23

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Young horse EBV

Jumping related traits

- Take-off
- Use of legs
- Use of back
- Rideability/capacity
- Total jumping score

Heritability

0,21
0,26
0,22
0,26
0,23

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Publication of young horse EBV

- Stallion: accuracy $> 0,6$
- Mares: accuracy $> 0,5$

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Competition EBV

- Single trait BLUP animal model
- Fixed effects:
 - age, gender, competition class, rider class

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Competition EBV

Classification of rider (an influence on 8%):

- Élite rider
- National rider
- Region rider

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Competition EBV

Information from competitions based on points:

- 1986-1998: only the best placed horses (around 25 % best)
- From 1998: all participated horses

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Competition EBV



223.633 results from competitions in dressage (1985-2008)

382.291 results from competitions in jumping (1985-2008)

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Competition EBV

Traits

Heritability

- Dressage 0,20
- Jumping 0,11

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Publication of competition EBV

- Stallions: when at least 15 progeny have competition results
- Mares: accuracy $> 0,5$

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Stallion ranking for dressage EBV 2008



	Overall EBV	Young horse EBV	Competition EBV
B.H. Hertug	166 (0,97)	148 (0,98)	167 (0,96)
B.H. Don Schufro	161 (0,96)	144 (0,95)	158 (0,98)
Schwadronneur	156 (0,97)	150 (0,95)	144 (0,98)
Robin	147 (0,91)	128 (0,91)	151 (0,92)
Gribaldi	147 (0,86)	118 (0,84)	161 (0,88)
B.H. Future Cup	146 (0,92)	124 (0,93)	154 (0,81)
Midt-West Ibi-light	145 (0,98)	143 (0,98)	130 (0,97)
Jazz	142 (0,75)	118 (0,70)	152 (0,79)
Weltjunge	141 (0,89)	129 (0,91)	140 (0,86)
Master	138 (0,77)	124 (0,74)	139 (0,80)



Stallion ranking for jumping EBV 2008



	Overall EBV	Young horse EBV	Competition EBV
Casir Ask	160 (0,95)	157 (0,94)	141 (0,95)
Lambrusco Ask	155 (0,88)	158 (0,85)	128 (0,91)
Carano	152 (0,98)	164 (0,98)	110 (0,98)
A'Kahn Z	150 (0,92)	140 (0,88)	149 (0,96)
Aston	150 (0,91)	156 (0,88)	122 (0,94)
Cajus	148 (0,91)	152 (0,89)	122 (0,93)
Willemoes	147 (0,90)	136 (0,90)	150 (0,91)
Coronado	145 (0,92)	149 (0,90)	120 (0,95)
Cornetto	145 (0,86)	143 (0,77)	133 (0,94)
Corlando	143 (0,95)	140 (0,94)	131 (0,97)