



Development of linear profiling in the Holsteiner horse - Practical experience -



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**3rd International workshop on linear profiling in the Warmblood Horse
on 24th February 2016 in Marbach / Germany**



Holstein linear system DEVELOPMENT

- **Since 2010:** linear profiling of foals using an assessment sheet
- **2014: Pilot study:** linear profiling of mares at the studbook registration and mare performance test in Schleswig-Holstein using
- **2015: Pilot study:** linear profiling of young stallions at the preselection for licensing
- **2015:** Start of the project “Implementation of new sustainable strategies to promote equine health” within the EU-funding program “European innovation partnership” (EIP)
 - One part of the project is the extension of linear profiling





Holstein linear system DEVELOPMENT



Linear profiling of YOUNG STALLIONS

Since 2015:

- linear profiling of young stallions at the preselection for licensing
- the same number of traits as the mares
- different approach of assessment: division of the trait complexes among the four judges (aim: to relieve the judges and to increase the precision of linear profiling)
 - 1. judge: free jumping
 - 2. judge: type, topline, trot
 - 3. judge: forelimbs, walk
 - 4. judge: hindlimbs, canter, correctness (movement), behaviour



Holstein linear system PRACTICAL EXPERIENCES

Year	Foals registration	Mares		Stallions preselection
		studbook registration	performance test	
2010	419			
2011	482			
2012	706			
2013	657			
2014	612	310	74	
2015	508	383	129	213
2016	1.768	325	180	184
	5.152	1.018	383	397



Holstein linear system PRACTICAL EXPERIENCES

1. Regular judge training is necessary

➔ to improve the data quality!

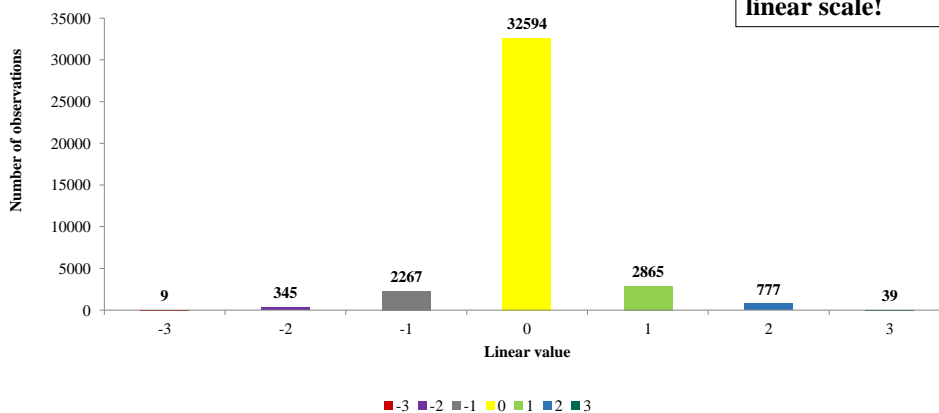
- Knowledge of the trait scheme
- Comparability in linear profiling between the judges (avoidance of preferences)
- Using of the full linear scale (-3 to +3)
- Agreement between the linear profil and the value notes → value notes will be maintained (value notes: foals: type and gait; mares/stallions: type, topline, forelimb, hindlimb, walk, trot, canter)

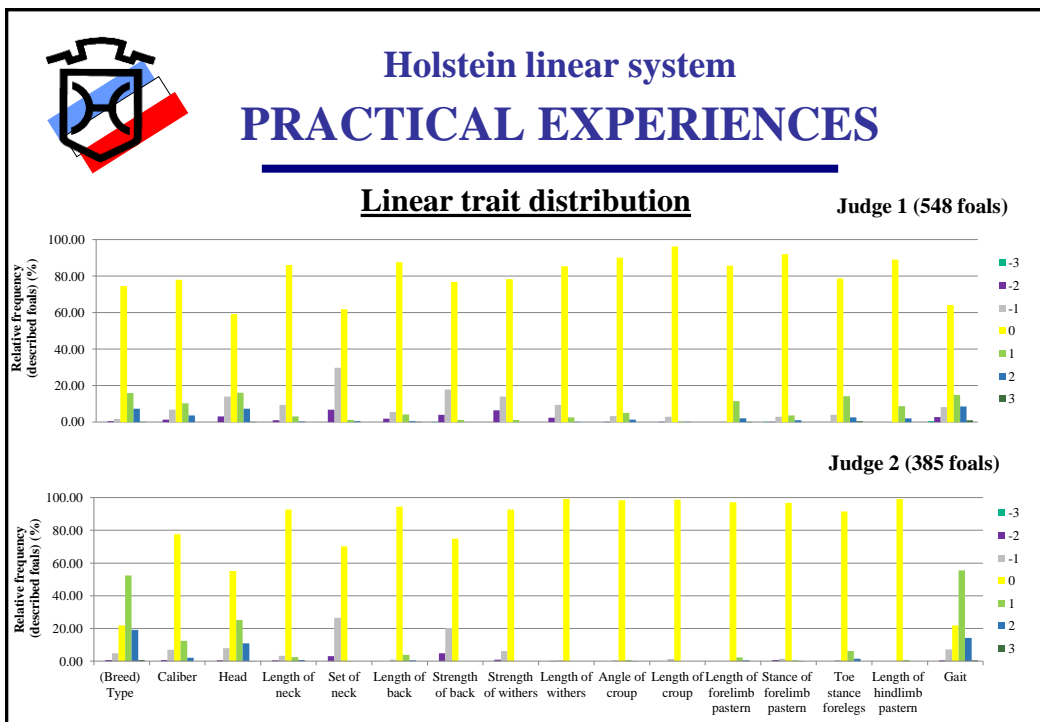
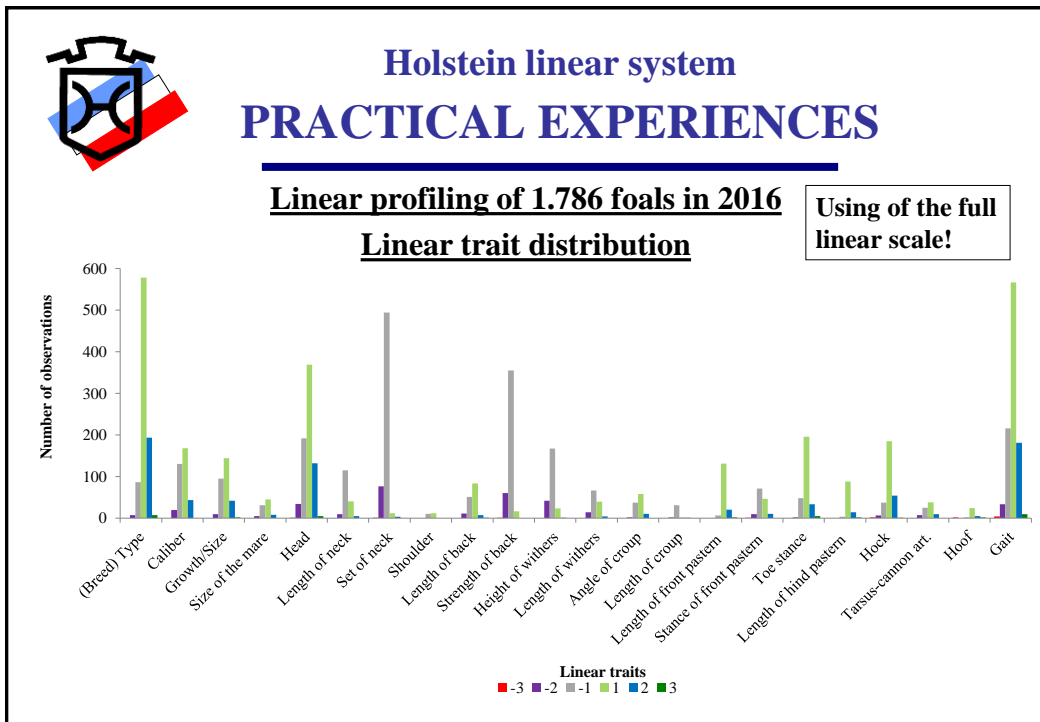



Holstein linear system PRACTICAL EXPERIENCES

Linear profiling of 1.786 foals in 2016

Linear trait distribution







Holstein linear system

PRACTICAL EXPERIENCES


Linear profil of a foal

Agreement between
the linear profil and
the value notes?


Lebensnummer: DE 421000054715
 Stutfohlen 07.05.2015 Typ: 7 Gang: 8

Vater: Clarcon DE 421000116110
 Mutter: Ascona II DE 421000369508

Züchter:



		-3	-2	-1	1	2	3	
(Rasse-)Typ	wenig							typvoll
Halslänge	kurz							lang
Schulter	steil/kurz							schräg/lang
Gang	fest/gebunden							elastisch/taktmäßig



Holstein linear system

PRACTICAL EXPERIENCES


Linear profil of a foal

Agreement between
the linear profil and
the value notes?

Lebensnummer: DE 421000070115
 Stutfohlen 26.05.2015 Typ: 7 Gang: 8

Vater: Adagio deTalm 25000110317581M
 Mutter: Sefra DE 421000114302

Züchter:



		-3	-2	-1	1	2	3	
(Rasse-)Typ	wenig							typvoll
Wuchs/Größe	klein							groß
Halsansatz	tief							hoch
Widerristlänge	kurz							lang
Kruppenneigung	flach/gerade							abfallend
Sprungelenk	gerade/steil							starker Winkel
Gang	fest/gebunden							elastisch/taktmäßig



Holstein linear system

PRACTICAL EXPERIENCES

2. Personal assistance for the judges

- On-site support of the judges
- Operating of the Tablet-PC by the assistance (searching for the foal dataset and entry of linear data)

Advantages:

- The judge can focus exclusively on linear profiling
- Substantial time saving (can start directly with linear profiling)

Support by the young breeders:

- Training for the young breeders
- Time problem of students in July (overlapping with examinations)



Thank you!

