





Introduction of linear profiling

2010

Student thesis comparing conventional scoring in SWB and LP

2010-2011

Theoretical introduction of LP to judges and breeders

2012-2013

Extensive theoretical and practical training of judges with assistance from international judges experienced in LP

Information in Swedish horse media and directly to breeders

2013-

Implementation

Continued training of judges





Introduction of linear profiling

2013

field performance test for 3-year-olds

2014

field performance test for 4-year-olds foal inspections stallion performance test mares for conformation grading





How was it received by judges*?

+ positive

More clear and detailed description of the horses More uniform description of the horses Good overview

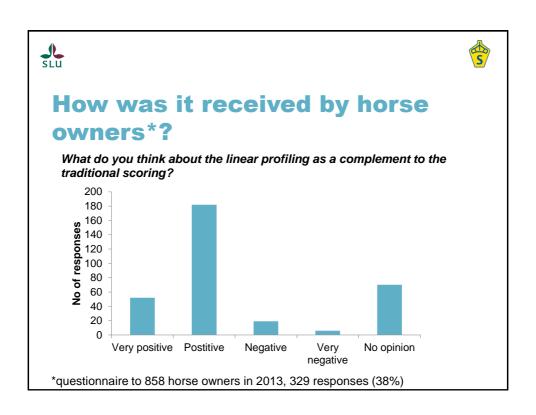
- negative

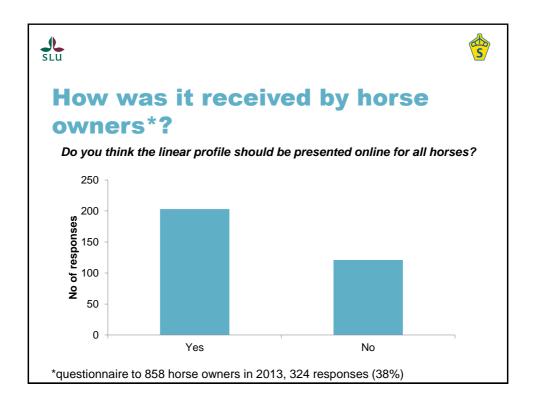
Time consuming – temporary problem?

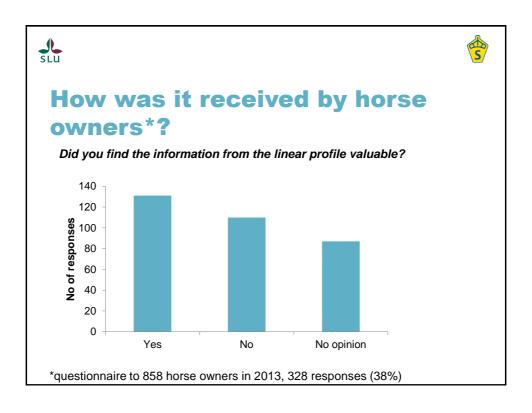
Some traits on valuating scale - not descriptive

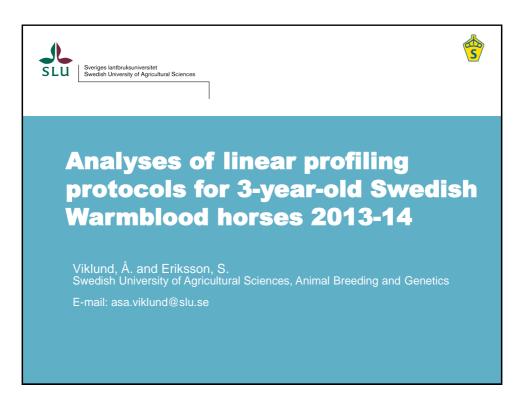
Risk of focusing in details and forget the whole picture

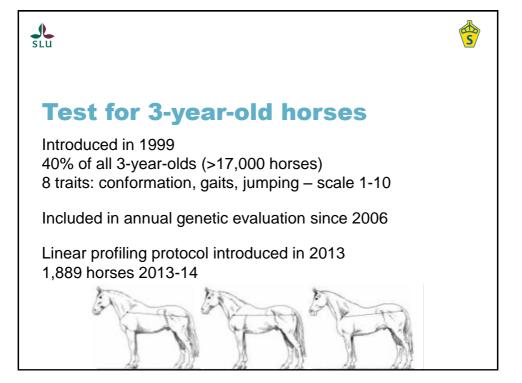
*questionnaire to judges, 27 responses

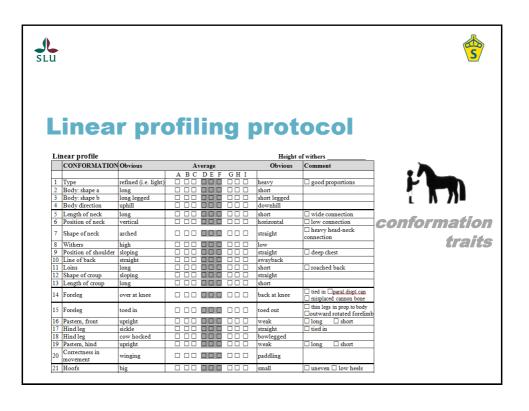


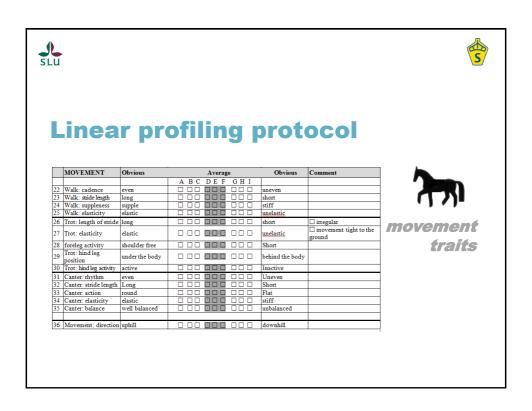
















Linear profiling protocol

	JUMPING	Obvious	Average	Obvious	Comment
			A B C D E F G H I		
37	Take off	powerful		weak	
38	Take off: quickness	quick		slow	
39	Take off: direction	upwards		forwards	
40	Technique: foreleg	bent		hanging	under the body stretched out
41	Technique: back	rounded		hollow	
42	Technique: haunches	open		tight	
43	Scope	much		little	
44	Elasticity	elastic		stiff	
45	Care	too careful		not careful	
46	Distance estimation	secure		insecure	
47	Balance	balanced		unbalanced	
48	Reaction	quick		slow	
48					
48		focused		unfocused	



jumping traits





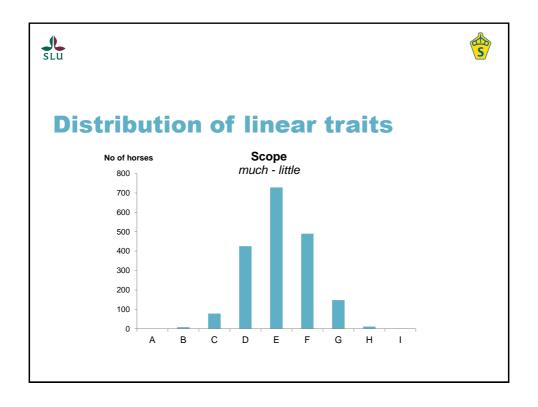
Aim of the analyses

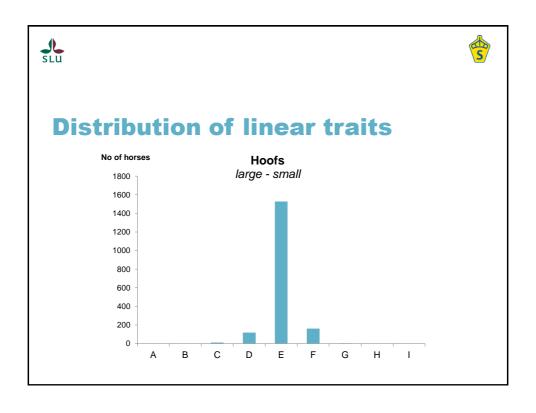
Investigate suitability of linear scored traits in genetic evaluation

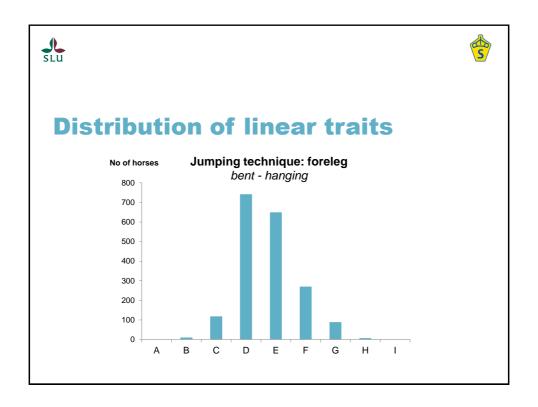
descriptive statistics

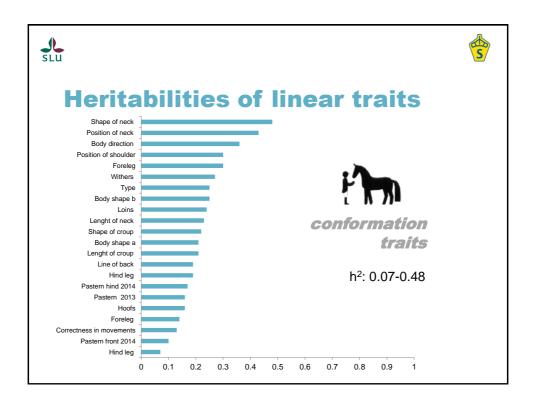
genetic parameters for linear traits

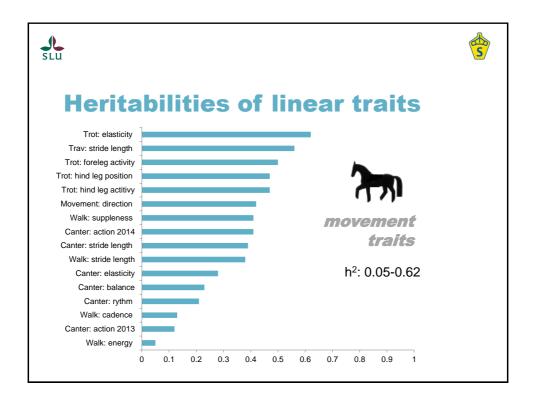
correlations between linear scored traits and traditionally scored traits

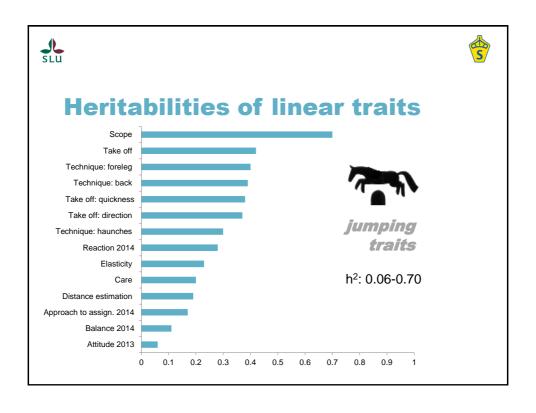


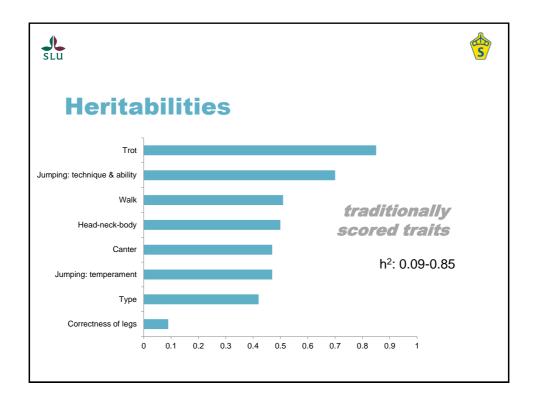


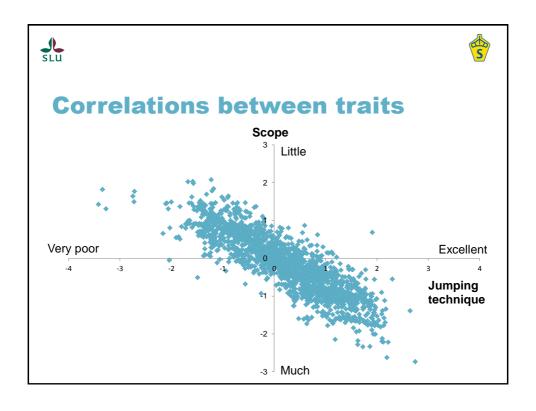


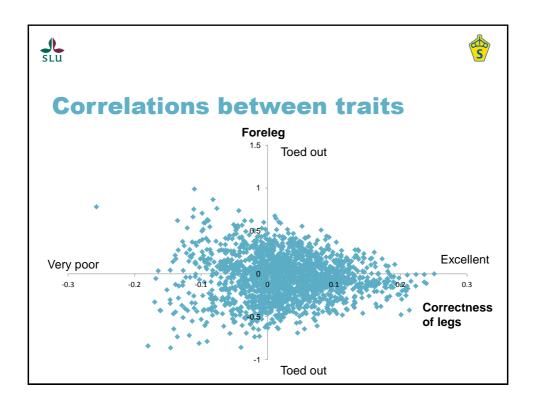
















Concluding remarks

Possible to include linear scored traits in genetic evaluation

Linear protocol good complement to traditional scoring

Higher heritabilities for traditionally scored traits

Linear profile useful for breeders

Linear information can be used in genomic studies





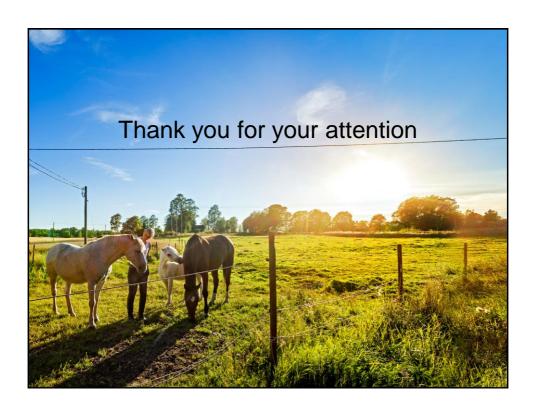
On-going activities

Publish breeding values for linear traits 2016

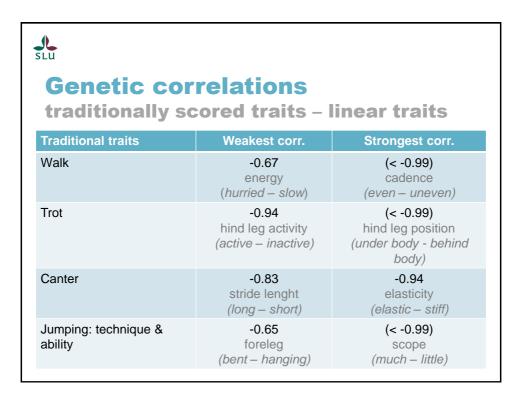
Genomic studies

Bachelors student thesis

- -conformation and movements
- -conformaiton and jumping technique







Trait Mean SD Conformation 4.6 - 5.2 0.4 - 0.9 Movement 4.7 - 5.2 0.5 - 0.9 Jumping 4.6 - 5.2 0.6 - 1.1 Trad. scores 6.9 - 7.8 0.5 - 1.2
Conformation 4.6 - 5.2 0.4 - 0.9 Movement 4.7 - 5.2 0.5 - 0.9 Jumping 4.6 - 5.2 0.6 - 1.1
Movement $4.7 - 5.2$ $0.5 - 0.9$ Jumping $4.6 - 5.2$ $0.6 - 1.1$
Jumping 4.6 - 5.2 0.6 – 1.1
Trad. scores 6.9 - 7.8 0.5 – 1.2