# Linear scoring of the performance in Latvian Heavy Warmblood horse breed

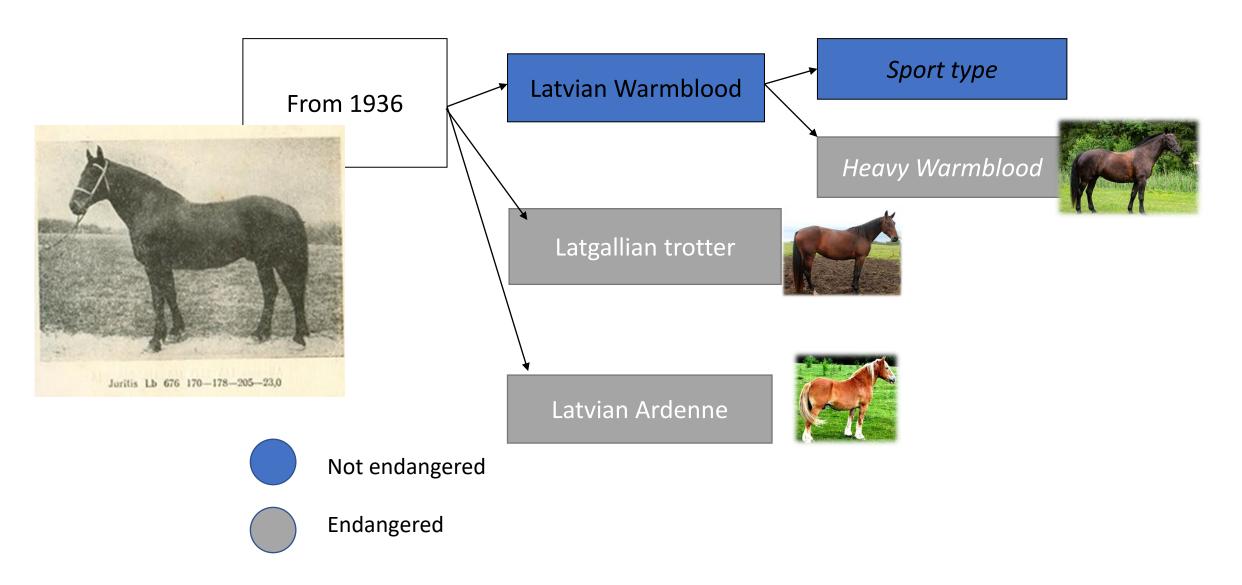


Latvian Warmblood Horse Breeders Association

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#### Horse breeds in Latvia



#### The Latgallian Trotters

- Critically endangered horse breed
- Related to The Orlov Trotter, The Standardbred and The Russian Trotter
- A typical harness horse. Performance

   racing speed harnessed to a two wheeled vehicle
- Preservation started on 2007





#### The Latvian Ardennes

- Critically endangered coldblood horse breed
- Related to The Swedish Ardennes Horse and The Ardennes from Belgium
- Preservation started on 2016
- Performance quality (style) of walk and trot



#### The Latvian Warmblood

• LWB

- LHWB
- Preservation started on 2004
- One breed one linear profile





#### Why sport horse linear profile?



- One breed Latvian Warmblood
- Historically multiple-purpose horse
- Two studbooks, progeny of one horse can be in both
- Possibility to evaluate stud horses with both type progeny
- Possibility to compare
- Possibility to understand and characterize horse type, conformation and performance more objective
- More possibilities to analyze data
- Similar profile, different scores!





 Offspring from LWB and LHWB (included in LWB Studbook)



Light type of LHWB, from historical old sport type lines

### The Latvian Heavy Warmbloods

- For national competitions in driving, show jumping, dressage
- Tourism
- Driving
- School horse
- Farm work



 National show – conformation, gaits, jumping ability, aids in long reins



#### Performance of LHWB

Quality of walk
Quality of trot
Quality of canter
Jumping ability



or / and

reaction to aids in long reins or harness

#### Testing reaction to aids:

- In long reins from 24 months; in walk and trot (demonstrating halt from walk, walk in circle, transitions)
- Driving test from 5 years in harness, in walk and trot (demonstrating halt from walk, turns, transitions), younger horses (from 3 y.) can be evaluated in harness as well.

### Walk



Walk											
Length of stride	short					long					
Rhythm	irregular					regular					
Activity	lazy					active					
Suppleness	stiff					elastic					
Freedom of shoulders	restricted					free					
Reach of hind limbs	inactive (short)					active (long)					
(overstepping)											
Hind limb activity	inactive					active					
<b>Elasticity of topline</b>	tight					elastic					

### Trot



Trot									
Length of stride	short							long	
Rhythm	irregular							regular	
Activity	lazy							active	
Suppleness	stiff							elastic	
Freedom of shoulders	restricted							free	
<b>Mechanics of front limbs</b>	straight forelimb							much knee action	
Lightness	heavy							light	
Thrust (hind limb activity)	inactive							active, energetic	
<b>Body direction</b>	downhill							uphill	
Elasticity of topline	tight							elastic	

#### Canter



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Trot						
Length of stride	short				10	ong
Rhythm	irregular				re	egular
Activity	lazy				a	ctive
Suppleness	stiff				e	lastic
Freedom of shoulders	restricted				fı	ree
<b>Mechanics of front limbs</b>	straight forelimb				n	nuch knee action
Lightness	heavy				li	ght
Balance	lack of balance				V	ery balanced
Thrust (hind limb activity)	inactive				a	ctive, energetic
<b>Body direction</b>	downhill				u	phill
Elasticity of topline	tight				e	lastic

### Jumping ability



		_	
Jumping			
Bascule	hollow back		rounded back
Elasticity	stiff		elastic
Foreleg angulation	straight		angulated
Hind leg technique	long hind leg		tight (under the body)
Hind leg technique	standing hind leg		open
Take-off power	weak		powerful
Reflexes	slow		quick
Attention	inattentive		attentive
Courage	fearful		brave
Overview	little		much
Coordination	uncoordinated		coordinated

### Reaction to aids



https://youtu.be/TxpTKQdzzTw

REACTION TO AIDS									
Reaction to aids	resistance								soft contact
Impulsion	weak								powerful
Cooperativeness	incooperative								obedient

#### Example (a fragment of the linear profile of LHWB 3-years old gelding)

Darbaspēju vērtējums									
Soļi		-3	-2	-1	0	1	2	3	
Plašums	Īsi								plaši
Elastīgums	stīvi								elastīgi
Pleca darbība	ierobežota								izteikta
Pakaļkājas pret priekškāju nospiedumiem	nesasniedz								ievērojami pārsniedz
Rikši		-3	-2	-1	0	1	2	3	
Plašums	ĪSi								plaši
Aktivitāte	slinki								enerģiski
Elastīgums	stīvi								elastīgi
Pleca darbība	ierobežota								izteikta
Karpālās locītavas darbība	taisnas								izteikta darbība
Vieglums	smagi								viegli
Pakaļkāju darbība	neaktīva								aktīva, enerģiska
Balanss	lejupvērsts								augšupvērsts
Lēkši		-3	-2	-1	0	1	2	3	
Plašums	Īsi								plaši
Elastīgums	stīvi								elastīgi
Pleca darbība	ierobežota								izteikta
Karpālās locītavas darbība	taisnas								izteikta darbība
Vieglums	smagi								viegli
Līdzsvars	līdzsvara trūkums								līdzsvaroti
Dullellett deutste									-1.47

## Analysis of few performance traits in LHBW population

Туре		heavy	1,07	light
		inexpressive	0,18	elegant
Walk	Length of stride	short	0,25	long
Trot	Mechanics of front limbs	straight forelimb	0,89	much knee action
Canter	Freedom of shoulders	restricted	-0,17	free
Reaction to aids	Impulsion	weak	0,26	powerful
Jumping ability	Elasticity	stiff	0,53	elastic
	Reflexes	slow	0,53	quick
	Courage	fearful	0,14	brave
			-0,50 0,00 0,50 1,00 1,50	

n=74

### THANK YOU FOR YOUR ATTENTION!

