

Introduction

Evaluation of conformation and performance traits is done at:


- Foal shows
- Studbook registrations
- Mare performance tests
- (pre-)Licensings for stallions

15.04.2017

OLDENBURGER
BREEDING & SPORT


OLDENBURGER
PFERDEZUCHTVERBAND E.V.


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Previous system


The traditional scoring system worked by giving scores out of a scale between 0 (not performed) and 10 (excellent)

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Previous system

- → Unspecific statement, only a classification from very bad to excellent
- → mostly bad utilisation of the scoring scale
- → no „learning effect“ for breeders

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Intention

Judging of horses

Scores & Linear profiling

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Idea

Better information for our breeders required:

- more transparency
- better selection possible
- a lot of informationen about progeny groups
- easy analysis for research projects

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Development

Registration of traits via tablet computer + assistance, the program was written by a student

Traits with a scale from -3 to +3
(only registration of traits with a deviation from average, „+“ is not always positive!)

Traits of deficit (f.e. marked notch, capped hock)

15.04.2017  7



Development

Start with 120 traits in 2011,
with only registering deviations to the
average!

Testing phase at official breeding events
↓
Increasing of traits to 160 in 2012


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Development

2016:	186 traits
Conformation:	80 traits
Movement in hand:	19 traits
Free movement/jumping:	34/15 traits
Movement under rider/lunge:	38 traits

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Process


Record of data out of the Oldenburg database (events, data of horses)


↓

Registration (only!) of characteristic traits at shows of each horse

↓

Export of data into the database of the Oldenburg association (Excel chart)

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Process

Generation of linear profile diagram of each horse for the breeder

↓

Save of the diagram as PDF in Oldenburg database

15.04.2017  11



Results


Easy to handle


No extra time necessary, some judges might prefer personal assistance

All traits have been used by the different judges

Foals 9 traits on average

Mares/stallions 17 traits on average

15.04.2017  12





Results

Traits of character, ridability and soundness have been added

Perfect data base for genomic selection

Great schooling effect for our judges


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Results

But!

Linear description doesn't replace a well experienced judge!

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Overview

92% 16:57

Linear Profiling + ADD NEW EVENT

event V2.272

foal registration	studbook inspection	mare performance test	other event	stallion inspection	stallion approval	base data
EVENT NO.	DATE	PLACE	STUDBOOK			
001	29.04.2015	Pferdezentrum Vechta	33			
001	20.05.2015	Dorsten	33			
001	27.05.2015	Rotthalmünster	33			
001	09.06.2015	Vechta	33			
001	16.06.2015	Vechta	18			
001	05.08.2015	Vechta	33			
002	27.05.2015	Plaaz	33			
003	27.05.2015	Egling	33			
003	10.06.2015	Vechta	33			

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Overview

92% 16:57

Linear Profiling RING AWARDS RING -> ASSESSED + CREATE

mare performance test, 12.06.2015

PLACE	STUDBOOK	JUDGE	ASSISTANT
Vechta	33	JUDGE	ASSISTANT

not assessed ring assessed

search

head number	STUDBOOK	name	UELN	BORN	SEX	SIRE	DAMSIRE
192	33		DE 433330572311	27.03.2011	mare	Zack	Feiner Stern
194	33		DE 433330472111	09.05.2011	mare	Fürstenball	Pik Noir
199	33	Bremer-Design	DE 433330139412	30.03.2012	mare	Bordeaux	De Niro
200	33		DE 433330170912	02.04.2012	mare	Jazz	De Niro
201	33		DE 433330905812	15.04.2012	mare	Sir Donnerhall I	Wolkentanz
203	33		DE 433330263012	20.04.2012	mare	Uptown	Rubiner
205	33		DE 433330052512	06.05.2012	mare	Uptown	Cordial Medoc

Overview

data sheet **conformation**
RING ASSESSED

UELN DE 433330139412 don't publish head number 199 studbook 33

NAME Bremer-Design	SIRE Bordeaux	SCORE 4.0	<input type="checkbox"/> VPr <input type="checkbox"/> S1 <input type="checkbox"/> V	<input type="checkbox"/> presented for conformation assessment <input type="checkbox"/> presented in hand <input type="checkbox"/> presented in free movement <input type="checkbox"/> presented under rider
DATE OF BIRTH 30.03.2012	DAMSIRE De Niro	<input type="checkbox"/> StPrA <input type="checkbox"/> S2 <input type="checkbox"/> V1	<input type="checkbox"/> V2	
SEX mare	MGS Rubinstein I			


format and front part	topline	limbs	correctness / coordination	movement in hand	free movement	movement under rider/on the lunge
group	area	- extreme -3 -2 -1 0 1 2 3 + extreme				
FORMAT	Breed type	plain <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> true to type				
	Gender expression	weak <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> strong				
	Frame	small-framed <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> large-framed				
	Caliber	light <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> heavy				
	Chest width	narrow <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> wide				
	Barrel	shallow (tucked-up) <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> deep				
	Umbilical thickening	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> marked umbilical thickening				

Conformation

data sheet **conformation**
RING ASSESSED

UELN DE 433330139412 don't publish head number 199 studbook 33

format and front part	topline	limbs	correctness / coordination	movement in hand	free movement	movement under rider/on the lunge
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	Umbilical thickening	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> marked umbilical thickening				
	Condition	skinny <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> fat				
	Development	poor <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> much				
	Length of legs	short-legged <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> long-legged				
	Harmony of proportions	unharmonious <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> harmonious				




Conformation

data sheet **conformation**
RING ASSESSED

UELN DE 433330139412 don't publish head number 199 studbook 33

format and front part
topline
limbs
correctness / coordination
movement in hand
free movement
movement under rider/on the lunge

group	area	- extreme	-3	-2	-1	0	1	2	3	+ extreme
TOPLINE	Length of back	short	○	○	○	●	○	○	○	long
	Course of topline	disturbed	○	○	○	●	○	○	○	straight
	Line (strength) of back	dipped	○	○	○	●	○	○	○	roached
	Line (strength) of loins	dipped (weak)	○	○	○	●	○	○	○	roached
	Length of croup	short	○	○	○	●	○	○	○	long
	Angle (inclination) of croup	flat (level)	○	○	○	●	○	○	○	sloping
	Shape of croup	angular	○	○	○	●	○	○	○	round
	Set of tail	low	○	○	○	●	○	○	○	high

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Conformation

data sheet **conformation**
RING ASSESSED

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format and front part
topline
limbs
correctness / coordination
movement in hand
free movement
movement under rider/on the lunge

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Correctness & coordination

data sheet **conformation** RING ASSESSED

UELN DE 433330139412 don't publish head number 199 studbook 33

format and front part topline limbs **correctness / coordination** movement in hand free movement movement under rider/on the lunge

group	area	- extreme	-3	-2	-1	0	1	2	3	+ extreme
CORRECTNESS/	Toe stance of forelegs	toe-in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	toe-out
SPECIAL REMARKS		unilateral	<input type="checkbox"/>							bilateral
	Standing position of front li	base-narrow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	base-wide
		unilateral	<input type="checkbox"/>							bilateral
	Position of carpus - frontal	wide at knees (bow-legged)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	narrow at knees (knock-kne)
	Toe stance of hind legs	toe-in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	toe-out
		unilateral	<input type="checkbox"/>							bilateral
	Standing position of hind li	base-narrow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	base-wide
		unilateral	<input type="checkbox"/>							bilateral
	Position of hock - back view	copied to clipboard down-hocked	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	cow-hocked
	Correctness of limb moven	plaiting (brushing)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	dishing (winging)

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Movement

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format and front part topline limbs correctness / coordination movement in hand **free movement** movement under rider/on the lunge

group	area	- extreme	-3	-2	-1	0	1	2	3	+ extreme
						<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	against the neck
CANTER	Freedom of shoulders	short	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	long
	Mechanics of front limbs	straight forelimb	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	much knee action
	Rhythm	irregular (4-beat)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	regular
	Direction of movement	downhill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	uphill
	Alignment					<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	markedly skewed
	Thrust (hind limb activity)	inactive, sluggish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	active, energetic
	Suppleness	stiff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	supple
	Carrying power	pushing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	carrying
	Balance	lack of balance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	very balanced
	Ground covering	little	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	much

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Movement/jumping

data sheet **conformation** RING ASSESSED

UELN DE 433330139412 don't publish head number 199 studbook 33

format and front part	topline	limbs	correctness / coordination	movement in hand	free movement	movement under rider/on the lunge				
group	area	- extreme	-3	-2	-1	0	1	2	3	+ extreme
FREE JUMPING	Rhythm	not fluent	⊖	⊖	⊖	●	⊕	⊕	⊕	fluent
	Elasticity	stiff	⊖	⊖	⊖	●	⊕	⊕	⊕	loose
	Take-off power	weak	⊖	⊖	⊖	●	⊕	⊕	⊕	powerful
	Reflexes	slow	⊖	⊖	⊖	●	⊕	⊕	⊕	quick
	Attention	inattentive	⊖	⊖	⊖	●	⊕	⊕	⊕	attentive
	Overview	little	⊖	⊖	⊖	●	⊕	⊕	⊕	much
	Jumping ability	little scope	⊖	⊖	⊖	●	⊕	⊕	⊕	much scope
	Willingness to perform	little	⊖	⊖	⊖	●	⊕	⊕	⊕	much
	Preparation	negative	⊖	⊖	⊖	●	⊕	⊕	⊕	positive
	Foreleg angulation	straight	⊖	⊖	⊖	●	⊕	⊕	⊕	angulated
										uneven


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Diagrams


Example of PDF hand outs for breeders

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Diagrams



Life number: DE 4333XXXX15

Cat. no.: 6 stallion born on XXXX.2015
 S: XXX DS: XXX
 D: XXX
 shown on XXX.2015 in XXX

Linear profile format and front

FORMAT Breedtype	plain									0	true to type
FORMAT Frame	small-framed									2	large-framed
FORMAT Caliber	light									2	heavy
FORMAT Body direction	downhill	1									uphill
FRONT Set of neck	low										high


Linear profile feet & legs

LIMBS Position of carpus	over at knee	1									back at knee
LIMBS Stance of forelimb-pastern	upright									1	sloping (weak)
LIMBS Stance of hind limb-pastern	upright									1	weak

Linear profile free movement

WALK Rhythm	regular										1	regular	
WALK Suppleness	stiff										1	elastic	
WALK Freedom of shoulders	short										1	long	
TROT Suppleness	tense	1										supple	
TROT Ground covering	little	1										much	
SPECIAL REMARKS Tail tone	un-toned											2	over-toned

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Examples



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Examples

Linearprofil Format und Vorderpferd


FORMAT (Rasse-)Typ	wenig	3 2 1 0 1 2 3	0	vieltypvoll
FORMAT Proportionen	kurzbeinig	3 2 1 0 1 2 3	1	langbeinig
VORDERPFERD Kopf	grob, derb	3 2 1 0 1 2 3	2	fein, edel

Linearprofil Korr. d. Ganges/Koordination

SONST. AUFFÄLLIGKEITEN Schweiftonus	kein Tragen	3 2 1 0 1 2 3	1	spannig/übertragen
-------------------------------------	-------------	---------------	---	--------------------

Bewegungsprofil Freie Bewegung

SCHRITT Fließ	schleppend	3 2 1 0 1 2 3	1	fließig schreitend
SCHRITT Raumgriff Vorhand	begrenzt	3 2 1 0 1 2 3	1	raumgreifend
TRAB Raumgriff Vorhand	begrenzt	3 2 1 0 1 2 3	3	raumgreifend
TRAB Vorderhand-Mechanik	gerades Vorderbein	3 2 1 0 1 2 3	1	viel Knieaktion
TRAB Schwung und Elastizität	wenig	3 2 1 0 1 2 3	2	viel
TRAB Schub, Hinterhandaktivität	kraftlos, schleppend	3 2 1 0 1 2 3	1	energisch, aktiv

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Linearprofil Format und Vorderpferd

FORMAT (Rasse-)Typ	wenig	3 2 1 0 1 2 3	0	vieltypvoll
FORMAT Proportionen	kurzbeinig	3 2 1 0 1 2 3	1	langbeinig
VORDERPFERD Kopf	grob, derb	3 2 1 0 1 2 3	2	fein, edel

Linearprofil Korr. d. Ganges/Koordination

SONST. AUFFÄLLIGKEITEN Schweiftonus	kein Tragen	3 2 1 0 1 2 3	1	spannig/übertragen
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Bewegungsprofil Freie Bewegung

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TRAB Schub, Hinterhandaktivität	kraftlos, schleppend	3 2 1 0 1 2 3	1	energisch, aktiv




Examples



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Examples

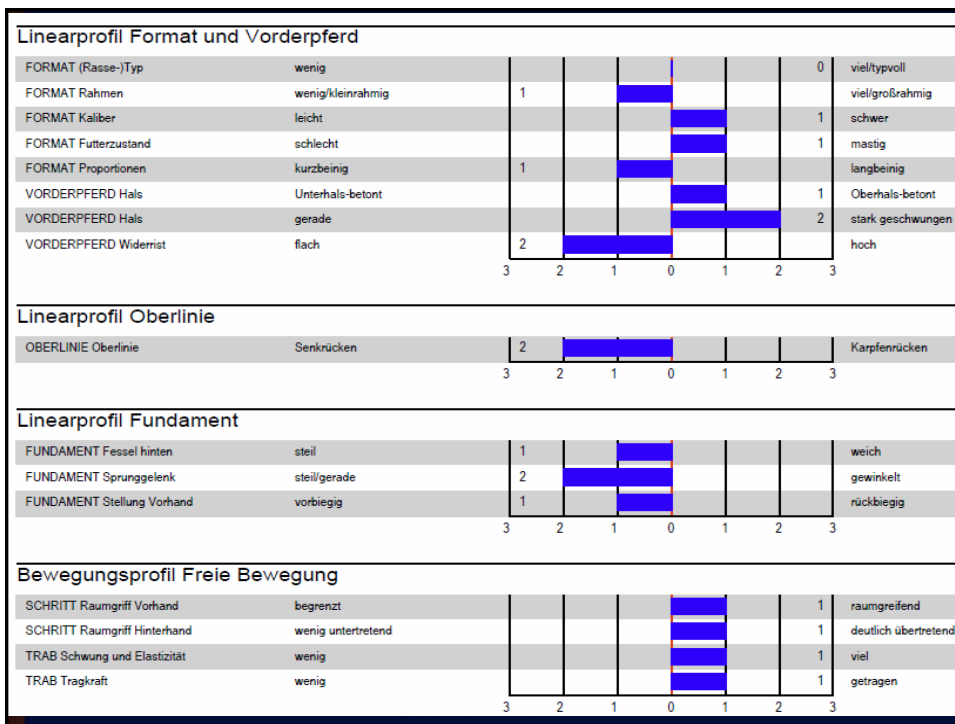
Linearprofil Format und Vorderferd							
FORMAT (Rasse-/Typ)	wenig					0	vieltypvoll
FORMAT Rahmen	wenig/kleinrahmig	1					viellgroßrahmig
FORMAT Kaliber	leicht					1	schwer
FORMAT Futterzustand	schlecht					1	masig
FORMAT Proportionen	kurzbeinig	1					langbeinig
VORDERPFERD Hals	Unterhals-betont					1	Oberhals-betont
VORDERPFERD Hals	gerade					2	stark geschauungen
VORDERPFERD Widerrist	flach	2					hoch

Linearprofil Oberlinie							
OBERLINIE Oberlinie	Senkrücken	2					Karfenrücken

Linearprofil Fundament							
FUNDAMENT Fessel hinten	steil	1					weich
FUNDAMENT Sprunggelenk	steil/gerade	2					gewinkelt
FUNDAMENT Stellung Vorhand	vorbiegig	1					rückbiegig

Bewegungsprofil Freie Bewegung							
SCHRITT Raumgriff Vorhand	begrenzt					1	raumgreifend
SCHRITT Raumgriff Hinterhand	wenig untertretend					1	deutlich übertretend
TRAB Schwingung und Elastizität	wenig					1	viel
TRAB Tragkraft	wenig					1	getragen

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Examples

Linearprofil Format und Vorderpferd

FORMAT (Rasse-)Typ	wenig	3	2	1	0	1	2	3	0	viel/typvoll
FORMAT Rahmen	wenig/kleinrahmig	1								viel/großrahmig
FORMAT Kaliber	leicht								1	schwer
FORMAT Futterzustand	schlecht								1	mastig
FORMAT Proportionen	kurzbeinig	1								langbeinig
VORDERPFERD Hals	Unterhals-betont								1	Oberhals-betont
VORDERPFERD Hals	gerade								2	stark geschwungen
VORDERPFERD Widerrist	flach	2								hoch

Linearprofil Oberlinie

OBERLINIE Oberlinie	Senkrücken	3	2	1	0	1	2	3		Karpenrücken
---------------------	------------	---	---	---	---	---	---	---	--	--------------

Linearprofil Fundament

FUNDAMENT Fessel hinten	steil	1								weich
FUNDAMENT Sprunggelenk	steil/gerade	2								gewinkelt
FUNDAMENT Stellung Vorhand	vorbiebig	1								rückbiebig

Bewegungsprofil Freie Bewegung

SCHRITT Raumgriff Vorhand	begrenzt								1	raumgreifend
SCHRITT Raumgriff Hinterhand	wenig untertretend								1	deutlich übertretend
TRAB Schwung und Elastizität	wenig								1	viel
TRAB Tragkraft	wenig								1	getragen

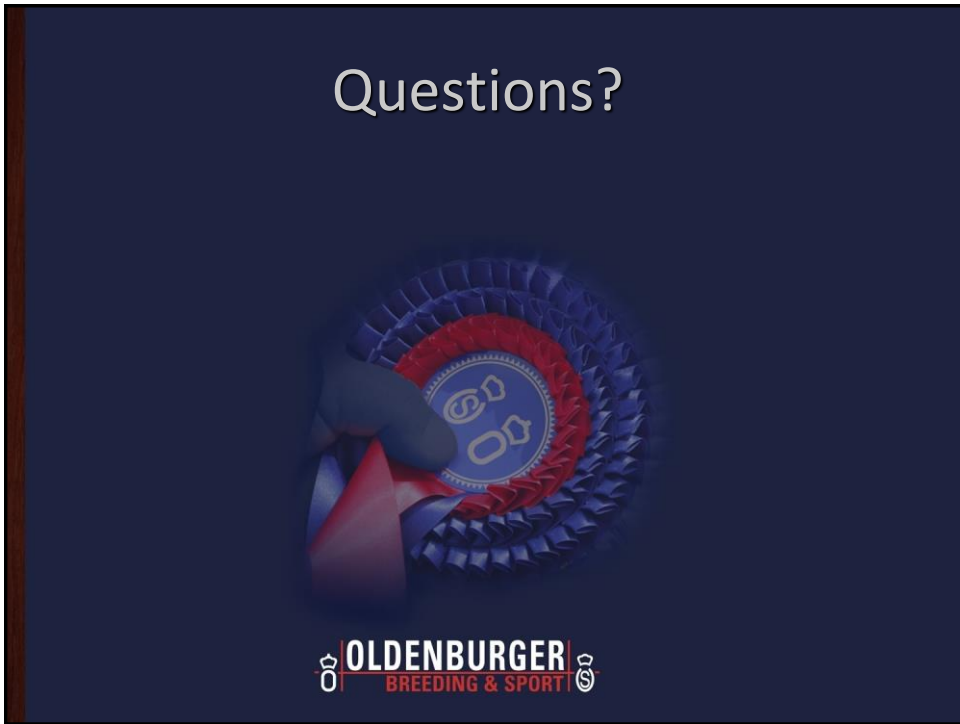
Linearprofil Korr. d. Ganges/Koordination

SCHRITT auffallender Oberhals	kein Flagen	3	2	1	0	1	2	3		stark abgerollt
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Bewegungsprofil Freie Bewegung

SCHRITT Hals	schlaff								1	stark abgerollt
SCHRITT Raumgriff Vorhand	begrenzt								1	raumgreifend
TRAB Stellung Hinterhand	gerade								1	gerade
TRAB Vorderhand Becken	große Vorhand								1	gerade
TRAB Schwung und Elastizität	wenig								2	wiel
TRAB Schab, Hinterhandstütze	kurzfl. schlagend								1	stark abgerollt

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Offspring evaluation results of linear scoring

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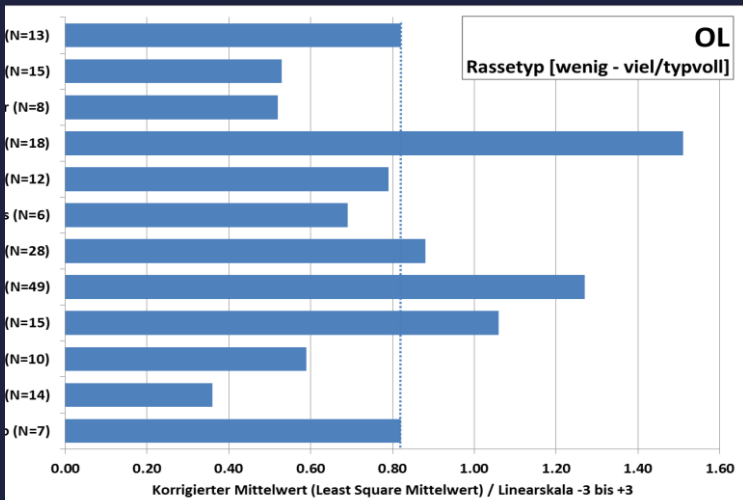
- Linear scoring OL/OS 2015
- Consideration all presented Oldenburg foals (incl. shows abroad):
in total 2.162 linear profiles concerning conformation and movement
- Valuation basis offspring evaluation:
 - Offspring from 18 stallions (N=12 OL, N=6 OS)
 - Linear profiles from 286 foals
- Grafic presentation of estimations for linear scores of stallion offsprings
 - adjusted for: judge-team (judge + assistance; 4 categories),
association (OL, OS), age of the foal (4 age classes)
 - Expression of society-mean value (estimation value for OL / OS)

(source: K. Stock, VIT Verden 2015)

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Offspring evaluation results of linear scoring


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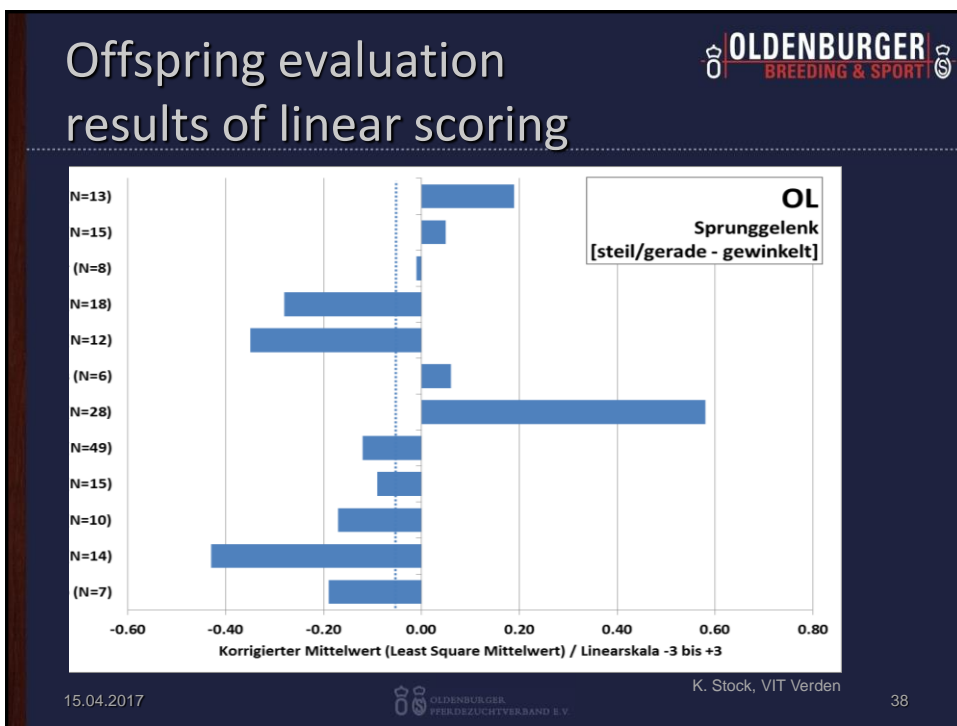
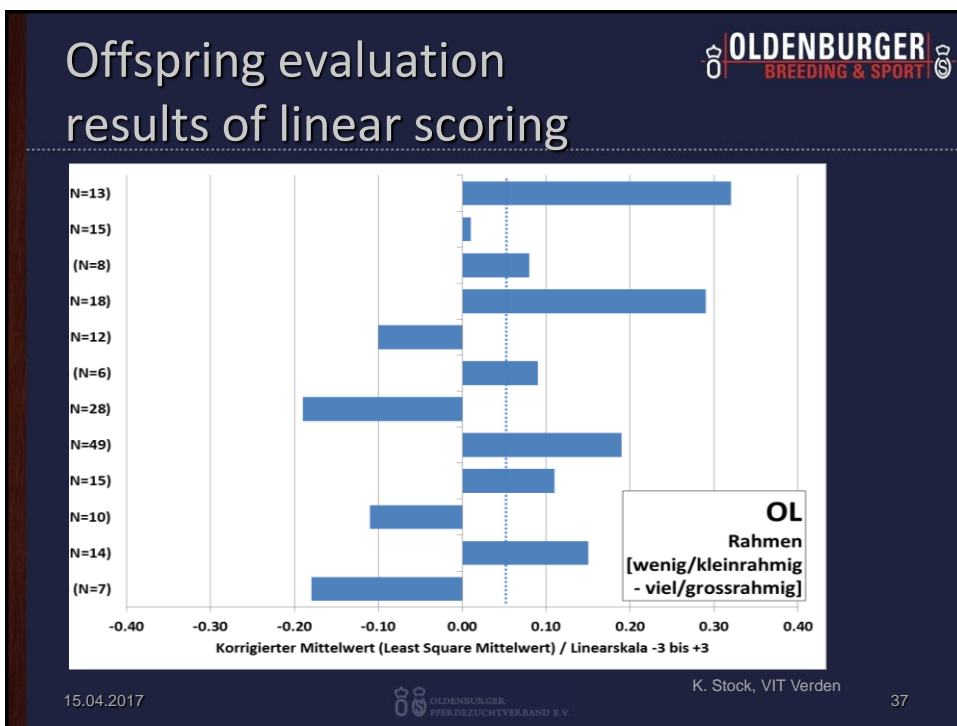


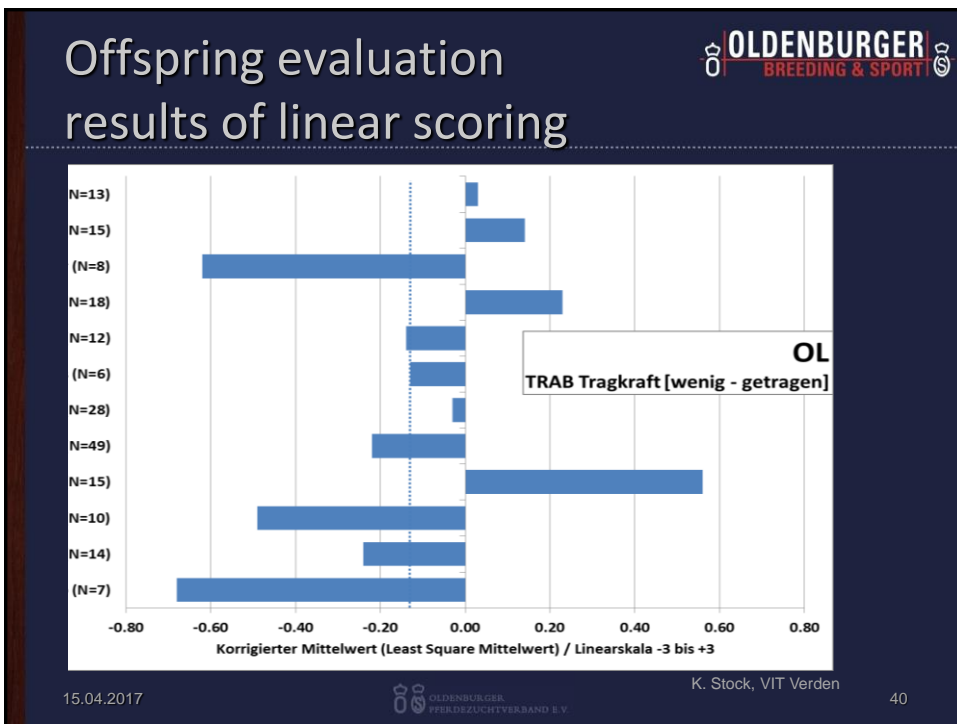
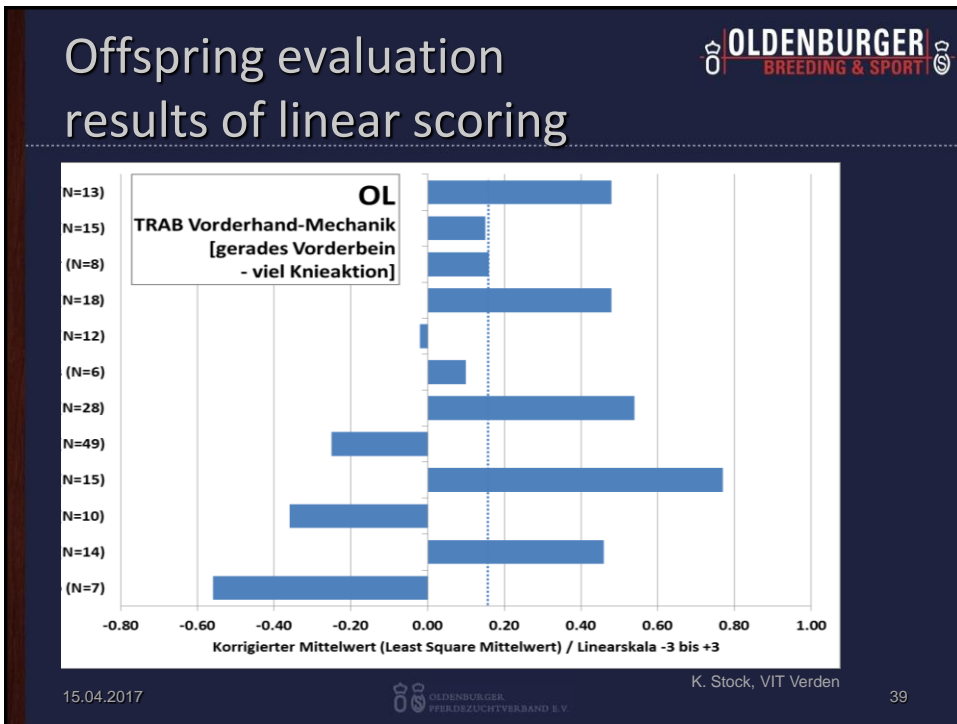
OL
Rassetyp [wenig - viel/typvoll]

Stallion (N)	Korrigierter Mittelwert (Least Square Mittelwert) / Linearskala -3 bis +3
(N=13)	0.80
(N=15)	0.50
(N=8)	0.50
(N=18)	1.50
(N=12)	0.80
(N=6)	0.70
(N=28)	0.90
(N=49)	1.25
(N=15)	1.05
(N=10)	0.60
(N=14)	0.35
(N=7)	0.80

Korrigierter Mittelwert (Least Square Mittelwert) / Linearskala -3 bis +3

15.04.2017  K. Stock, VIT Verden 36





Offspring evaluation results of linear scoring



15.04.2017



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