



Summary of the Sep 2013 AWW routine run

Interbull Centre

Data call:

September 12, 2013

- The same phenotypic data already used for the last test run will be used (no new performance records should be submitted by the participating organizations)
- Only populations included in the previous test run can participate in this routine run
- Pedigrees should be updated by the national centers before the deadline (2013-09-20)
- The banded correlation matrices prepared by the ICBF research group will be adopted
- The publication policy approved by the WG in May 2013 to prepare the distribution files
- All service users are required to send a new data file (file605) containing the list of official animals

Data reception

LIM			CHA		
Population	Males	Females	Population	Males	Females
CZE	2804	2992	CZE	11450	12921
DNK	20647	20090	DNK	8164	7400
ESP	16452	16807			
FIN	6594	6442	FIN	8604	8582
FRA	1017457	1066073	FRA	1724440	1748482
GBR	58001	59070			
IRL	10914	8923	IRL	12977	10015
SWE	8865	9336	SWE	49574	50118

Correlations CHA

	Direct						Maternal					
	FRA	SWE	IRL	DNK	FIN	CZE	FRA	SWE	IRL	DNK	FIN	CZE
FRA	240.0											
SWE	0.85	170.0										
IRL	0.72	0.63	450.0									
DNK	0.83	0.57	0.65	289.0								
FIN	0.79	0.64	0.81	0.82	257.0							
CZE	0.88	0.76	0.67	0.71	0.76	310.0						
FRA	-0.22	-0.03	0.14	0.01	0.11	0.02	96.0					
SWE	0.09	-0.02	0.26	0.19	0.18	0.19	0.64	120.0				
IRL	0.15	0.23	-0.14	0.24	0.16	0.23	0.56	0.57	194.0			
DNK	0.10	0.16	0.25	-0.05	0.18	0.25	0.56	0.85	0.56	128.0		
FIN	0.13	0.17	0.16	0.18	-0.07	0.12	0.56	0.79	0.56	0.60	144.0	
CZE	0.11	0.16	0.23	0.24	0.11	-0.06	0.56	0.75	0.56	0.56	0.85	197.0

Correlations LIM

LIM	Direct								Maternal							
	FRA	GBR	DNK	ESP	IRL	SWE	FIN	CZE	FRA	GBR	DNK	ESP	IRL	SWE	FIN	CZE
FRA	240.0															
GBR	0.81	268.0														
DNK	0.88	0.88	289.0													
ESP	0.87	0.68	0.78	136.0												
IRL	0.74	0.92	0.82	0.70	450.0											
SWE	0.80	0.73	0.82	0.71	0.81	170.0										
FIN	0.70	0.67	0.72	0.83	0.73	0.76	257.0									
CZE	0.58	0.70	0.83	0.59	0.70	0.70	0.70	310.0								
FRA	-0.32	-0.09	-0.15	-0.15	-0.03	-0.04	-0.01	0.02	96.0							
GBR	-0.11	-0.13	-0.03	0.04	-0.10	0.04	0.01	0.02	0.85	55.0						
DNK	-0.13	-0.03	-0.17	-0.03	-0.06	0.00	0.03	-0.07	0.85	0.76	128.0					
ESP	-0.14	0.04	-0.07	-0.15	0.05	0.01	-0.01	0.03	0.80	0.57	0.81	68.0				
IRL	-0.02	-0.09	-0.05	0.04	-0.22	-0.02	-0.02	0.01	0.69	0.84	0.86	0.56	194.0			
SWE	0.01	0.01	0.02	-0.01	-0.03	-0.14	0.00	-0.01	0.57	0.53	0.58	0.81	0.51	120.0		
FIN	0.00	0.00	0.01	-0.01	-0.01	0.00	-0.26	0.00	0.53	0.54	0.54	0.53	0.53	0.54	144.0	
CZE	-0.08	0.01	-0.02	0.04	0.03	0.01	0.00	-0.18	0.80	0.80	0.67	0.57	0.59	0.52	0.54	197.0

Parameters

	Parameter	FRA	GBR	DNK	ESP	IRL	SWE	FIN	CZE
LIM	h2	0.27	0.23	0.27	0.18	0.14	0.25	0.25	0.21
	m2	0.08	0.08	0.07	0.10	0.08	0.12	0.16	0.22
	c2	0.12	0.13	0.10	0.12	0.14	0.14	0.14	0.13
CHA	h2	0.20		0.24		0.23	0.15	0.20	0.14
	m2	0.09		0.07		0.05	0.13	0.11	0.05
	c2	0.13		0.08		0.07	0.16	0.16	0.10

Changes in parameters between Feb and Sep 2013

- Sire Model vs. Animal Model
- Model
- Data edit/selection
- Starting values
- 2-trait vs. (6, 8)-trait evaluations
- Replacing unknown or very low values with 0.8
- Bending

Distributed results

- International BV/REL
- Publishable International BV/REL
- Solutions for fixed effects
- Solutions for fixed regression effects
- Solutions for CZE random contemporary group
- Solutions for MPE effect

Number of IEBV/REL generated

Breed	Males	Females
CHA	1 885 794 × (6)	2 475 318 × (6)
LIM	1 165 028 × (8)	1 442 980 × (8)

Publication rules

- The proof from any animal with a national official status in a country was considered as official in that respective country.
- Any animal with ≥ 25 recorded progeny and reliability ≥ 0.5 in at least one scale and with an official status in a country was considered as internationally official in all the countries participating in the analysis.
- Any animal with ≥ 25 recorded progeny and reliability ≥ 0.5 in at least one scale and with recorded progeny in more than one country was considered as internationally official in all the countries participating in the analysis.

Number of animals reported as official (file605)

	LIM		CHA	
Population	Males	Females	Males	Females
CZE	7441	10111	22518	29610
DNK	144824	137894	57611	56493
ESP	20460	31950		
FIN	6594	6442	6594	6442
FRA	15182	0	22267	0
GBR	185741	222050		
IRL	95889	97979	118465	123390
SWE	123	715	354	1325

Number of publishable animals in each scale

	LIM		CHA	
Population	Male	Female	Male	Female
FRA	19779	91	25452	96
GBR	81861	87565		
DNK	38606	25938	32631	11238
ESP	36045	31815		
IRL	31655	26709	40393	32431
SWE	18470	791	24198	1391
FIN	24794	6481	32456	8593
CZE	21844	7473	36500	22628

Number of publishable animals common to all scales

CHA	24211 ♂
LIM	18517 ♂

Publishable data per country of origin (CHA)

CZE scale = 54.1%(FRA)+ 42.8%(CZE) + 3.1 %(OTHER)

DNK scale = 53.4%(FRA)+ 44.7%(DNK) + 2.0 %(OTHER)

FIN scale = 56.8%(FRA)+ 41.4%(FIN) + 1.8 %(OTHER)

FRA scale = 96.4%(FRA)+ 1.2%(SWE) + 2.4 %(OTHER)

IRL scale = 46.2%(FRA)+ 52.3%(IRL) + 1.5 %(OTHER)

SWE scale = 91.1%(FRA)+ 6.6%(SWE) + 2.3 %(OTHER)

PUBLISHABLE DATA PER COUNTRY OF ORIGIN (LIM)

CZE scale = 69.2%(FRA) + 3.6%(GBR) + 21.9%(CZE) + 5.3%(OTHER)

DNK scale = 25.9%(FRA) + 1.6%(GBR) + 71.4%(DNK) + 1.1%(OTHER)

ESP scale = 35.9%(FRA) + 1.5%(GBR) + 61.4%(ESP) + 1.2%(OTHER)

FIN scale = 52.8%(FRA) + 3.3%(GBR) + 41.2%(FIN) + 2.7%(OTHER)

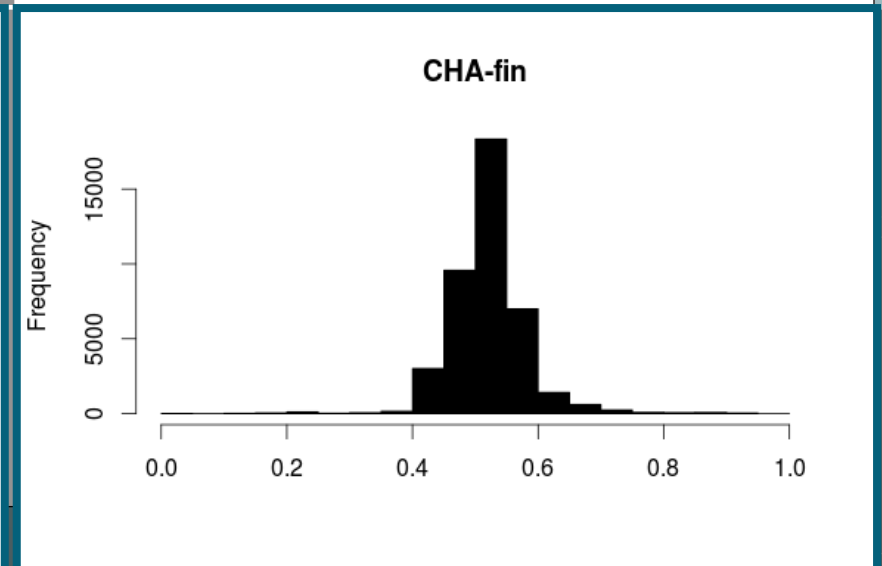
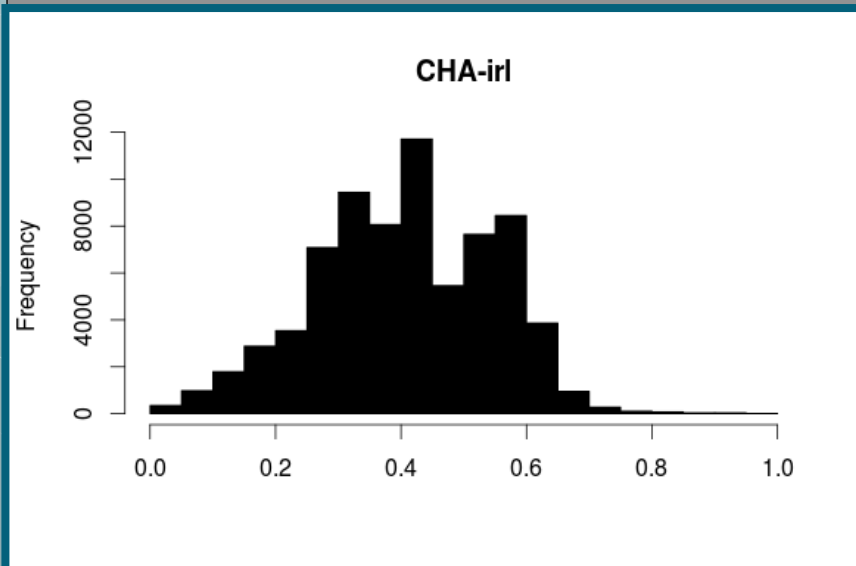
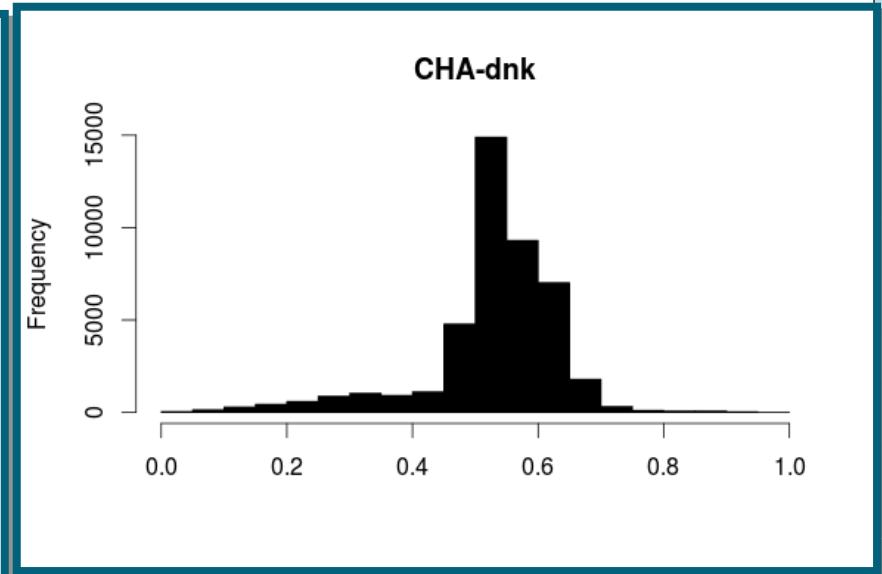
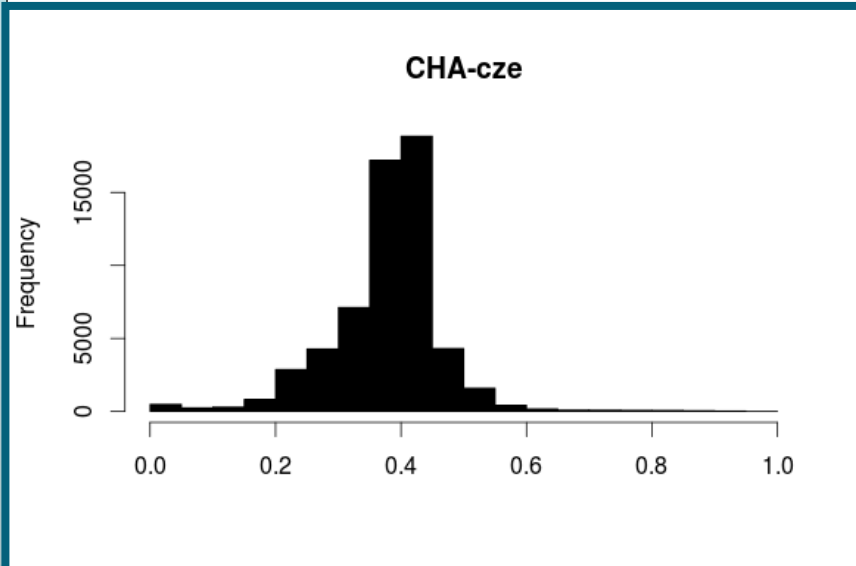
FRA scale = 89.8%(FRA) + 5.2%(GBR) + 1.8%(DNK) + 3.2%(OTHER)

GBR scale = 17.4%(FRA) + 81.8%(GBR) + 0.3%(IRL) + 0.5%(OTHER)

IRL scale = 41.5%(FRA) + 1.8%(GBR) + 55.2%(IRL) + 1.5%(OTHER)

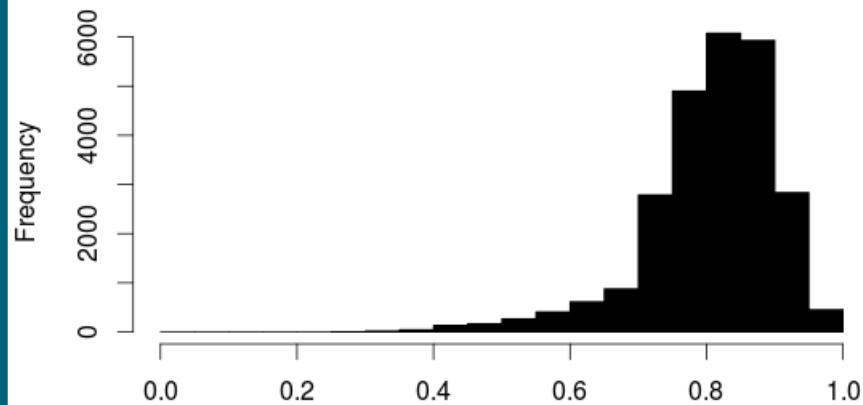
SWE scale = 85.7%(FRA) + 5.4%(GBR) + 4.3%(SWE) + 4.6%(OTHER)

Reliabilities (publishable animals)

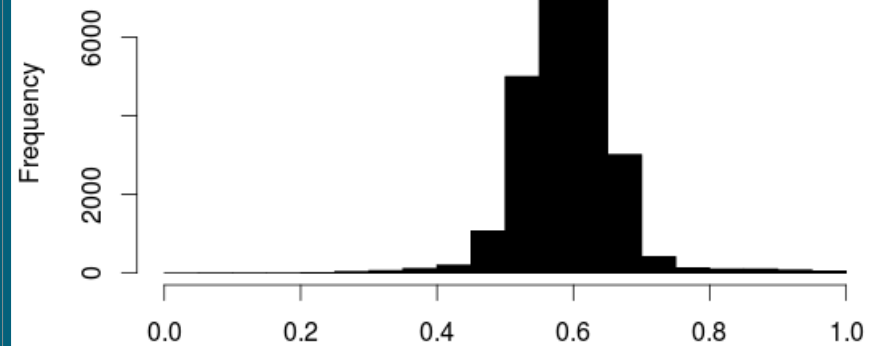


Reliabilities (publishable animals)

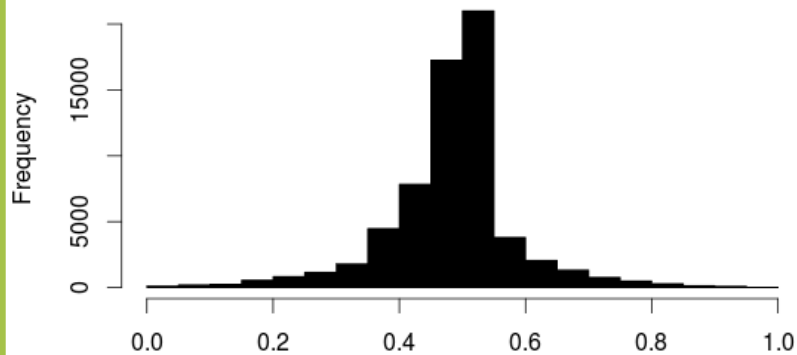
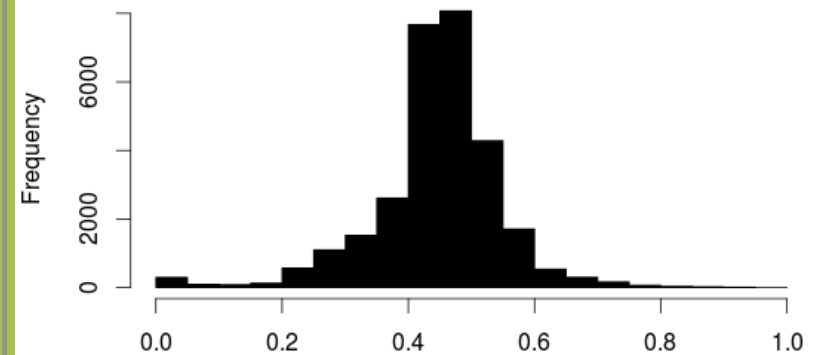
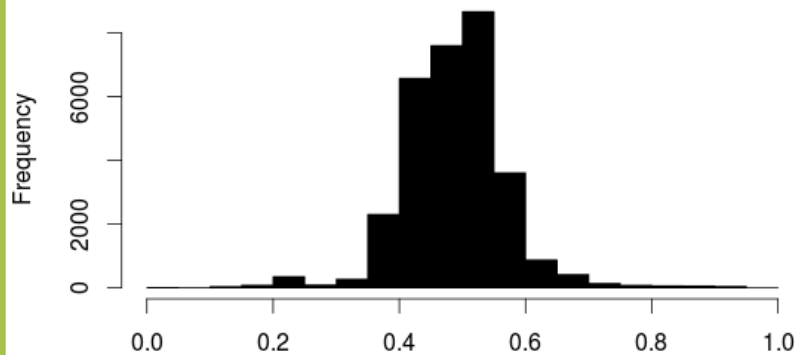
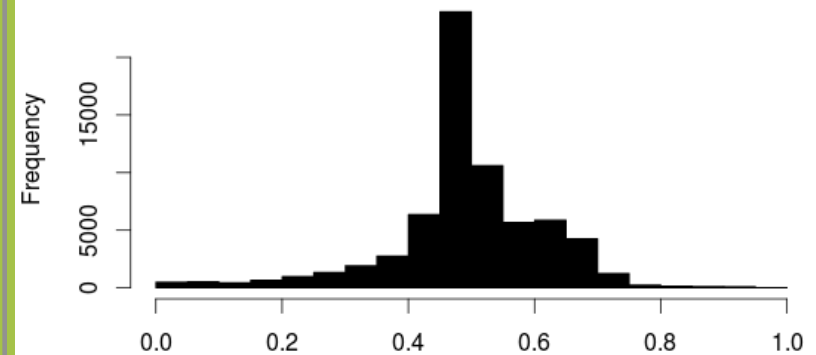
CHA-fra



CHA-swe



Reliabilities (publishable animals)

LIM-dnk**LIM-cze****LIM-fin****LIM-esp**

Reliabilities (publishable animals)

