

Addendum 3: Inbreeding Co-efficients

Animals without co-efficients were considered base animals in the herds from which they originated and therefore no value could be calculated for them. Inbreeding Co-efficients of 0 indicates no inbreeding while a co-efficient of 7 or above indicate an inbred individual. The bulls used in the study were not inbred while very few other animals in the sample group were inbred. The overall level of inbreeding was not considered to affect the linkage results.

IDAnimal	Inbreeding	IDSire	Inbreeding	IDDam	Inbreeding
JPL97055	0	VVN349	0	JPLJ61	0
JPL98028	0	VVN349	0	JPL9483	1
TWK92368	0	TWKL20	0	TWKD51	0
MCU99001	2	TWK95156	0	TWK9434	0
MCU99002	0	TWK95156	0	TWK92368	0
MCU99015	0	TWK95156	0	TWK94263	0
MCU99018	0	TWK95156	0	TWKN57	1
MCU00026	25	TWK93268	0	MCU9723	0
MCU00030	2	TWK93268	0	BEN9187	0
MCU98065	1	TWK93268	0	BENN129	1
MCU00020	1	TWK93268	0	MCU971	2
MCU00100	1	TWK93268	0	JPL91127	1
MCU99061	1	TWK93268	0	JPL91127	1
MCU99078	1	TWK93268	0	NFS91175	0
MCU99046	1	TWK93268	0	CEG9367	7
MCU99038	1	TWK93268	0	NFS9156	4
MCU99089	1	TWK93268	0	BENN129	1
MCU99048	0	TWK93268	0	MCUK44	0
MCU99050	0	TWK93268	0	MCU925	0
MCU99035	0	TWK93268	0	MCU9686	0
MCU99039	0	TWK93268	0	MCU9680	0
MCU99088	0	TWK93268	0	MCU9685	0
MCU99097	0	TWK93268	0	HFS92138	0
MCU99055	0	TWK93268	0	MCUK23	0
MCU99059	0	TWK93268	0	MCU9490	0
MCU99064	0	TWK93268	0	MCU9491	0
MCU99068	0	TWK93268	0	JPL9489	1
MCU99069	0	TWK93268	0	JPL9489	1
MCU99072	0	TWK93268	0	BEN92123	0
MCU99073	0	TWK93268	0	NFS95282	0
MCU99074	0	TWK93268	0	MCU9494	0
MCU98045	0	TWK93268	0	MCU9319	0
MCU98044	0	TWK93268	0	MCUK34	0
MCU98041	0	TWK93268	0	MCUK44	0
MCU98033	0	TWK93268	0	MCU9136	0
MCU98023	0	TWK93268	0	MCU9555	0
MCU98016	0	TWK93268	0	MCU9497	0
MCU98012	0	TWK93268	0	MCU9568	0
MCU98010	0	TWK93268	0	MCU9569	0

IDAnimal	Inbreeding	IDSire	Inbreeding	IDDam	Inbreeding
MCU97032	0	TWK93268	0	MCU9130	0
MCU97030	0	TWK93268	0	MCU9118	0
MCU97023	0	TWK93268	0	MCUK33	0
MCU97022	0	TWK93268	0	MCU909	0
MCU97021	0	TWK93268	0	MCU9255	0
MCU97017	0	TWK93268	0	MCUK34	0
MCU97014	0	TWK93268	0	MCU925	0
MCU97013	0	TWK93268	0	MCU9115	0
MCU97010	0	TWK93268	0	MCU9428	0
MCU98056	0	TWK93268	0	MCU9495	0
MCU98057	0	TWK93268	0	BEN91137	0
MCU99008	0	TWK93268	0	MCU9621	0
MCU99030	0	TWK93268	0	JPL9483	1
MCU98047	0	TWK93268	0	MCU964	0
MCU98074	0	TWK93268	0	MCUK23	0
MCU97006	0	TWK93268	0	MCU9493	0
MCU00063	0	TWK93268	0	MCU9130	0
MCU00057	0	TWK93268	0	MCU9687	0
MCU00044	0	TWK93268	0	MCU9692	0
MCU00041	0	TWK93268	0	MCU9136	0
MCU00065	0	TWK93268	0	MCU9691	0
MCU00019	0	TWK93268	0	BENL86	0
MCU00087	0	TWK93268	0	MCU9555	0
MCU00117	0	TWK93268	0	NFS92175	0
MCU00095	0	TWK93268	0	NFS90202	0
MCU00009		TWK93268		MCU96089	
NFSN367	2	TUKY29	0	AEMJ3	0
NFS96278	0	TEW9313	1	NFS94156	0
JPL91071	0	SASE78	1	JPLJ312	0
NFS96182	1	ROC93150	1	NFSJ34	0
NFS00167	1	ROC93150	1	NFS96267	2
MCU98022	0	PHR94108	0	JMP9622	0
JPL96084	7	NFSN42	4	JPL9171	0
JPL96076	4	NFSN42	4	JPL9252	0
JPL95041	0	NFSN42	4	JPL9175	0
NFS99358	7	NFSN174	13	NFS95208	0
NFS00365	1	NFSN174	13	NFS95143	1
NFS00319	1	NFSN174	13	NFS94156	0
NFS91025	1	NFSL145	0	NFSK158	1
NFS92137	0	NFSL145	0	AEMD65	0
NFS92301	0	NFSK96	0	AEMY4	0
CEF96037	1	NFSK88	5	CEFD18	0
NFS91010	0	NFSK88	5	AEMB56	0
NFS90202	0	NFSK88	5	MLJX70	0
JPL92016	2	NFSJ95	1	JPLH38	0
JPL91127	1	NFSJ95	1	JPLD12	0
JPLN014	0	NFSJ95	1	JPLC25	0
NFS91135	1	NFSJ65	0	NFSJ77	0

IDAnimal	Inbreeding	IDSire	Inbreeding	IDDam	Inbreeding
NFS92279	0	NFSJ141	0	AEMD57	2
NFS92138	0	NFSJ138	0	NFSH54	0
NFSL022	0	NFSD3	0	AEMH79	0
NFS00275	1	NFS9847	0	NFSK94	0
NFS00236	1	NFS9839	1	NFS9896	1
NFS00285	0	NFS96350	0	NFS95239	0
JPL00076	1	NFS96344	0	JPL9652	1
JPL00065	0	NFS96344	0	JPL9611	0
JPL00077		NFS96344		JPL95039	
JPL00080	1	NFS96276	1	JPL9715	0
JPL00079	1	NFS96276	1	JPL9715	0
NFS00283	4	NFS9560	0	NFS9742	1
NFS00348	4	NFS9560	0	NFS96417	0
NFS00158	3	NFS9560	0	NFS97228	0
NFS00221	2	NFS9560	0	NFS93378	0
NFS00177	2	NFS9560	0	NFS92279	0
NFS99336	1	NFS9560	0	NFS96413	0
NFS99282	1	NFS9560	0	NFS9644	2
NFS99258	1	NFS9560	0	NFS96449	1
NFS99247	1	NFS9560	0	NFS91349	2
NFS00188	1	NFS9560	0	NFS9111	1
NFS00057	1	NFS9560	0	NFS97285	1
NFS00232	1	NFS9560	0	NFS96409	0
NFS00397	1	NFS9560	0	NFS93198	0
NFS00224	0	NFS9560	0	NFS95332	0
NFS00200	0	NFS9560	0	NFS94350	0
NFS99408	0	NFS9560	0	KDJJ55	1
NFS00341	0	NFS9549	0	NFS96301	0
JPL98088	0	NFS94234	0	JPL9049	0
JPL00014	0	NFS94234	0	JPLK7	0
NFS98129	4	NFS94157	0	NFS9448	1
NFS98296	4	NFS94157	0	NFSH115	6
NFS98388	4	NFS94157	0	NFS94350	0
NFS99356	4	NFS94157	0	NFSH115	6
NFS98324	3	NFS94157	0	NFS93269	0
NFS98402	2	NFS94157	0	NFS93277	1
NFS99414	2	NFS94157	0	NFS93383	0
NFS99340	2	NFS94157	0	NFS94268	3
NFS99288	2	NFS94157	0	NFS93220	0
NFS99246	2	NFS94157	0	NFS9574	4
NFS98381	2	NFS94157	0	NFS9430	1
NFS98030	2	NFS94157	0	NFS9193	0
NFS98131	2	NFS94157	0	NFS94245	1
NFS98344	2	NFS94157	0	NFS9241	3
NFS98334	2	NFS94157	0	NFS92351	0
NFS99380	1	NFS94157	0	NFS93318	0
NFS99347	1	NFS94157	0	NFS93382	0
NFS98382	1	NFS94157	0	NFSH17	0

IDAnimal	Inbreeding	IDSire	Inbreeding	IDDam	Inbreeding
NFS98367	1	NFS94157	0	NFS95177	4
NFS98264	1	NFS94157	0	NFS96137	4
NFS98253	1	NFS94157	0	NFS95273	0
NFS98246	1	NFS94157	0	NFS93184	0
NFS98175	1	NFS94157	0	NFS94260	1
NFS98164	1	NFS94157	0	ASE9353	0
NFS98025	1	NFS94157	0	NFS92175	0
NFS98376	1	NFS94157	0	NFS95107	1
NFS99289	0	NFS94157	0	NFS92195	1
NFS99335	0	NFS94157	0	NFS91127	0
NFS99392	0	NFS94157	0	NFS91102	0
NFS95143	1	NFS9258	0	NFS92301	0
NFS00260	2	NFS92137	0	NFS95286	0
NFS96350	0	NFS92137	0	AEMD57	2
NFS96267	2	NFS91284	0	NFS92279	0
MCU96008	2	NFS91284	0	AGB144	0
NFS96276	1	NFS91284	0	NFS91159	0
NFS96024	1	NFS91284	0	NFS93151	0
NFS96353	1	NFS91284	0	NFS92263	1
NFS96015	1	NFS91284	0	NFS92357	0
NFS95239	0	NFS91284	0	NFSL85	0
NFS95079	0	NFS91284	0	NFSN367	2
NFS95237	0	NFS91284	0	NFSL22	0
NFS95282	0	NFS91284	0	NFS9096	0
NFS95286	0	NFS91284	0	NFS9110	0
NFS96020	0	NFS91284	0	NFS9353	5
NFS95208	0	NFS91284	0	NFS90178	0
NFS95060	0	NFS91284	0	NFSL243	0
NFS96288	0	NFS91284	0	NFS91135	1
NFS96301	0	NFS91284	0	MMJD78	0
MCU96021	0	NFS91284	0	AGD232	3
NFS96070	0	NFS91284	0	NFS92318	0
JPL94066	0	NFS90303	1	JPL9047	0
NFS95198	0	NFS90303	1	NFS9125	1
NFS94131	0	NFS90288	0	NFSL187	3
TWK93060	0	MMJX206	0	TWKK7030	0
NFSL243	0	MMJH21	0	MMJJ26	1
NFSJ034	0	MLJX105	0	NFS61	0
JPL93050	1	LTS90102	0	JPLH36	2
JPL95077	0	LTS90102	0	JPL9049	0
TWK94263	0	LELN62	6	TWKL54	0
TWK92433	0	LELN62	6	TWKN211	0
JPL98013	1	KAN9048	1	JPLN14	0
JPL99082	0	KAN9048	1	PJTK9	0
JPL99013	0	KAN9048	1	JPLN43	0
JPL91050	0	JPLL94	0	PJTK9	0
MCU99049	0	JPL9654	7	MCUK31	0
MCU99042	0	JPL9654	7	MCU9695	0

IDAnimal	Inbreeding	IDSire	Inbreeding	IDDam	Inbreeding
MCU99045	0	JPL9654	7	MCU9115	0
MCU99044	0	JPL9654	7	MCUK34	0
MCU99090	0	JPL9654	7	JPL9490	0
MCU99085	0	JPL9654	7	MCU9014	0
MCU99096	0	JPL9654	7	MCU968	2
MCU99099	0	JPL9654	7	TWK92368	0
MCU99054	0	JPL9654	7	CEGN80	0
MCU99056	0	JPL9654	7	MCU951	0
MCU99062	0	JPL9654	7	MCU9496	0
MCU99052	0	JPL9654	7	MCU9130	0
MCU99079	0	JPL9654	7	MCUK43	0
JPL00087	7	JPL9564	1	JPL9775	7
JPL98060	1	JPL9466	0	JPL9627	2
JPL98035	1	JPL9466	0	JPL9571	1
JPL00019	0	JPL9466	0	JPL9481	1
JPL00016	0	JPL9466	0	JPL959	0
JPL98068	13	JPL9350	1	JPL9579	1
JPL98054	2	JPL9350	1	JPL9539	1
JPL97052	1	JPL9350	1	JPL954	0
JPL00111	7	JPL9332	0	JPL9571	1
JPL99032	7	JPL9332	0	JPL9171	0
JPL00107	7	JPL9332	0	JPL9216	2
JPL00001	5	JPL9332	0	JPL9722	2
JPL00003	5	JPL9332	0	JPL9676	4
JPL00112	4	JPL9332	0	JPL9627	2
JPL00002	4	JPL9332	0	JPL9684	7
JPL00021	4	JPL9332	0	JPL9720	3
JPL99041	4	JPL9332	0	JPL9611	0
JPL00110	4	JPL9332	0	JPL9626	1
JPL00104	4	JPL9332	0	JPL9482	0
JPL00109	1	JPL9332	0	JPL9239	0
JPL00025	1	JPL9332	0	JPL9755	0
JPL00100	1	JPL9332	0	JPL9580	0
JPL00086	1	JPL9332	0	HOTE184	2
JPL99026	1	JPL9332	0	CEF9637	1
JPL00031	1	JPL9332	0	JPL9735	0
JPL00103	0	JPL9332	0	JPL9577	0
JPL00101	0	JPL9332	0	DFPN38	0
JPL99078	0	JPL9332	0	JPL9726	1
JPL99068	0	JPL9332	0	JPL9616	1
JPL00108		JPL93032	0	JPL95060	
JPL00094		JPL93032	0	JPL98068	
JPL95060	13	JPL9224	0	JPL91127	1
JPL97075	7	JPL9224	0	JPL9429	0
JPL97020	3	JPL9224	0	JPL9458	1
JPL96027	2	JPL9224	0	JPL9266	0
JPL97022	2	JPL9224	0	JPL9478	1
JPL95071	1	JPL9224	0	JPL9171	0

IDAnimal	Inbreeding	IDSire	Inbreeding	IDDam	Inbreeding
JMP96018	0	JPL9224	0	JPLL70	0
JPL97015	0	JPL9224	0	JPL9468	0
JPL94089	1	JPL9150	0	JPL9259	3
JPL95043	1	JPL9150	0	JPL9269	0
JPL96026	1	JPL9150	0	JPL9180	0
JPL94081	1	JPL9150	0	JPL9216	2
JPL95039	1	JPL9150	0	JPL9274	0
JPL94083	1	JPL9150	0	JPL9211	5
JPL95080	0	JPL9150	0	JPL9268	0
JPL96011	0	JPL9150	0	JPLN14	0
JPL95004	0	JPL9150	0	JPL9271	0
JPL94090	0	JPL9150	0	JPL9171	0
JPL94082	0	JPL9150	0	JPL9230	0
JPL93032	0	JDVK15	0	JPLN43	0
JPL93022	0	JDVK15	0	JPLK26	13
JPL93005	0	JDVK15	0	JPLH38	0
JPL91026	0	JDVD98	0	JPLL12	0
JPL91004	0	JDVD98	0	JPLK7	0
JPL92039	0	JDVD98	0	PJTK9	0
CEG90132	4	HOTX100	0	PJB183	0
HOTE184	2	HOTS28	0	TS38	3
DFPN038	0	HOTJ161	0	DFPD33	0
CEGN080	0	HOTH243	0	PJB183	0
PJTK009	0	HOTB249	0	PJTD50	0
MCU98040	0	HJS95149	0	CEGN80	0
NFS94156	0	HJLN132	0	NFSJ34	0
MCU94028	0	GVK105	0	MCUK44	0
DFP99105	1	GV9554	13	DFPN38	0
MCU95055	0	GV90198	2	BQ9359	
ROC93150	1	GOT9019	0	ROCN92	0
JPL92071	0	GBH201	2	LTS9033	0
JPLK009	0	GBD245	6	JPLC39	1
DFP92086	0	DFPJ32	0	KDJK18	0
MCU00121	1	DFP9319	1	NFS9620	0
NFS00264	1	DFP9319	1	NFS95198	0
NFS00303	1	DFP9319	1	NFS95208	0
NFS00018	1	DFP9319	1	NFS9579	0
NFS00364	1	DFP9319	1	NFS96288	0
JPL99042	2	DFP9286	0	JPLH36	2
JPL99155	2	DFP9286	0	JPL9216	2
MCU00025	2	DFP9286	0	TWK9360	0
MCU00114	1	DFP9286	0	JPL9489	1
MCU00092	1	DFP9286	0	CEG9367	7
JPL99167	1	DFP9286	0	JPL9571	1
MCU00113	1	DFP9286	0	JPL9490	0
JPL99162	1	DFP9286	0	JPL9239	0
JPL99047	1	DFP9286	0	JPL9541	0
JPL99044	1	DFP9286	0	JPL914	0

IDAnimal	Inbreeding	IDSire	Inbreeding	IDDam	Inbreeding
JPL99043	1	DFP9286	0	JPL935	0
JPL99036	1	DFP9286	0	JPL9126	0
MCU00101	1	DFP9286	0	JMP9618	0
NFS99233	1	DFP9286	0	NFS96353	1
NFS00066	1	DFP9286	0	NFS9615	1
MCU99033	0	DFP9286	0	MCU9692	0
JPL99064	0	DFP9286	0	JPLE27	0
MCU00081	0	DFP9286	0	MCU9495	0
JPL99045	0	DFP9286	0	JPL9539	1
JPL99071	0	DFP9286	0	JPLL36	0
JPL99046	0	DFP9286	0	JPL9539	1
MCU00001	0	DFP9286	0	MCU976	0
NFS00023	0	DFP9286	0	NFS96182	1
MCU00024	0	DFP9286	0	TWK94263	0
MCU00062	0	DFP9286	0	MCU9695	0
MCU00034	0	DFP9286	0	MCU9714	0
MCU00011	0	DFP9286	0	MCU9713	0
MCU00003	0	DFP9286	0	MCU9721	0
MCU00004	0	DFP9286	0	MCU9740	1
MCU00006	0	DFP9286	0	MCU978	0
MCU00032	0	DFP9286	0	TWK92433	0
MCU00010	0	DFP9286	0	MCU9710	0
MCU00013	0	DFP9286	0	MCU9730	0
MCU00016	0	DFP9286	0	TWKN57	1
MCU00017	0	DFP9286	0	MCU9569	0
MCU00021	0	DFP9286	0	TWK92192	0
MCU99032	0	DFP9286	0	MCU9691	0
MCU00105	0	DFP9286	0	TWK92368	0
MCU00074	0	DFP9286	0	MCU9558	0
MCU00083	0	DFP9286	0	MCUN2	0
MCU00104	0	DFP9286	0	MCU9428	0
MCU00115	0	DFP9286	0	MCU9693	0
MCU00116	0	DFP9286	0	CEG90132	4
MCU00127	0	DFP9286	0	MCU968	2
DFP97015		DFP9286	0	DFP93052	
MCU00028		DFP9286	0	MCU97017	
DFP97180		DFP91070		DFP91030	
MCU98049	0	CO 0		MCU9688	0
MCU98070	0	CO 0		MCU9694	0
CEG97070	1	CEG943	0	CEGN80	0
MCU98062	5	CEG9370	2	CEG90132	4
MCU98024	7	CEG9355	4	CEG9367	7
CEG96004	0	CEG93103	0	CEG9367	7
CEG93067	7	CEG90103	2	CEG90132	4
TWKN057	1	BH290	0	BB24	0
TWK92192	0	BH290	0	TWK203A	0
TWK92386	2	BGK53	0	TWKK7028	0
JPL90049	0	BGD38	0	LAS124	0

IDAnimal	Inbreeding	IDSire	Inbreeding	IDDam	Inbreeding
NFS91175	0	AMFE469	0	NFSL87	2
MCU96012	0	AMF91410	0	MCU9118	0
MCU00036	0	AG97324	0	JPL94083	0
MCU00038	0	AG97324	0	MCU97032	0
MCU00042	0	AG97324	0	CEG96004	0
MCU00047	0	AG97324	0	MCU96021	0
MCU00048	0	AG97324	0	TWK92386	0
MCU00061	0	AG97324	0	MCU98010	0
MCU00088	0	AG97324	0	MCU98012	0
MCU00067	0	AG97324	0	MCU97022	0
MCU00064	0	AG97324	0	MCU96012	0
JPL99161	1	AG94255	3	HOTE184	2
MCU00102	1	AG9416	2	CEG9770	1
NFS98358	1	AG9342	4	NFS9579	0