

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVImelkdoel = 0,4*Inet + 0,08*lvd + 4,7*UGH + 6,3*VRU + 1,8*Uier + 3,6*Beenwerk + 1,8*GEB + 2,7*KGH + 0,23*BVK

NVDubbeldoel = 0,35*Inet + 0,09*lvd + 5,2*UGH + 5,2*VRU + 5,2*Uier + 6*Beenwerk + 2*GEB + 5,2* VLI

Perspublicatie stierindexen Zwartbont

December 2020

Ki Stiernummer	Stiernaam	Er-fac Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	KgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext			
Ai Bull number	Bull name	Her-fac Sire	MGS	S N	Rel	NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	KgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T		
Melkdoel Zwart					pnt	Productie										€	Functioneel										Exterieur									
K&L DK 000000257379	Vh Bube Bernell	Bube	Vh Salomon	Gnat	90	+329	+15	253	95	+1382	-0.16	+0.01	+0.01	+42	+49	+64	+308	+20	+34	79	+494	107	108	107	102	102	98	111	93	101	99	104	107	106		
WWS US 70071611	S-S-I Mogul Reflector	Mogul	Super	Nat	91	+313	+16	504	95	+1536	-0.32	-0.03	+0.04	+32	+50	+74	+294	+11	-11	82	+892	104	106	106	97	110	109	106	94	102	103	112	106	111		
CRV NL 729539557	Weelder Empire	Bravo	G-Force	Gnat	88	+312	+31	1282	92	+482	-0.50	+0.23	-0.02	+67	+38	+20	+303	+4	+47	79	+579	105	104	106	108	96	88	112	99	95	92	103	110	104		
Alt US 72615089	Bomaz Altabanco	Donatello	Rmw Armitage	Nat	86	+299	+20	101	91	+1499	-0.06	-0.05	+0.01	+57	+47	+69	+333	+9	+13	73	+556	107	109	104	97	101	102	108	81	98	102	106	97	101		
Sem CA 12192429	Silvridge V Eugenio	Supershot	Mcutechen	Nat	83	+280	+17	206	88	+1963	-0.27	-0.25	+0.08	+54	+41	+98	+311	+22	+2	73	+547	106	104	106	100	107	100	106	89	101	103	113	102	109		
GGI DE 0666847135	Cyrano	Cinema	Shotglass	Gint	77	+277	+25	37	84	+2114	-0.22	-0.18	+0.10	+65	+54	+108	+390	+1	+36	64	+625	103	100	103	97	102	101	106	83	100	103	105	105	106		
CRV NL 921967114	Bouw Finder	Balisto	Epic	Gnat	95	+277	+40	4739	97	+10	+0.50	+0.14	+0.09	+45	+13	+8	+150	+19	-5	88	+1026	106	105	110	104	102	99	107	99	100	103	106	108	108		
CRV NL 661726527	Double W Ranger	Reflector	Snowfiever Cd	Gnat	87	+271	+9	2475	91	+578	+0.40	+0.14	+0.05	+62	+33	+31	+275	-18	-28	78	+553	102	105	103	102	109	112	109	99	107	103	109	110	113		
CRV US 3129128855	Peak Hotline	Altahotrod	Mogul	Gnat	86	+265	-1	406	90	+1371	+0.33	+0.06	+0.13	+92	+54	+76	+437	+39	-16	74	+59	100	103	106	102	97	107	104	95	103	102	111	108	111		
CRV US 3133629974	Butterfing Gold Medal	Supershot	Halogen	Gnat Gn	76	+263	+47	72	85	+1871	-0.24	-0.05	+0.05	+54	+60	+91	+387	+46	+7	68	+422	104	104	110	103	104	103	102	81	105	103	105	99	104		
ABS DE 0538920253	Dg Charley	Supershot	Mogul	Gnat	87	+263	+15	105	92	+1467	-0.20	-0.08	+0.07	+42	+43	+74	+287	+22	+49	74	+557	108	105	109	104	106	99	102	90	93	97	103	99	99		
Sem CA 12192430	Silvridge V Euclid	Supershot	Mcutechen	Nat	73	+262	-13	21	79	+1477	-0.07	-0.21	+0.03	+55	+30	+71	+260	-36	-28	73	+507	104	110	105	101	108	102	103	79	101	104	110	102	107		
Alt US 73953444	Bomaz Altarashot	Supershot	Altambassy	Nat	83	+261	+0	140	88	+1546	+0.11	+0.08	+0.04	+77	+62	+75	+438	+12	+8	71	+460	103	102	108	101	105	96	107	87	100	104	101	96	99		
Alt US 69829746	Lone-Oak-Acres Altarabo-Et	Mogul	Observer	Nat	95	+257	-22	2273	98	+1504	-0.01	-0.17	+0.12	+63	+35	+81	+300	-7	+39	89	+521	107	102	103	101	107	105	101	97	102	102	110	104	108		
Sam NL 755898903	Cogent Supershot	Supersire	Super	Nat	95	+256	+5	468	98	+1986	-0.48	-0.14	+0.13	+32	+54	+105	+320	+30	-7	89	+557	105	106	106	101	106	96	104	98	105	106	103	99	103		
GGI DK 05609302452	Bonum	Balisto	Epic	Gnat	86	+255	+26	243	90	+1388	-0.23	-0.14	+0.01	+35	+63	+64	+351	+4	-7	74	+790	105	98	104	104	105	101	105	91	103	103	110	101	107		
Tot FR 5366624921	Drakkar Baylaboy	Kingboy	Garrett	Gnat	76	+254	+19	56	86	+1510	-0.30	-0.17	-0.08	+33	+35	+61	+231	+11	+0	69	+546	107	106	110	98	100	94	107	82	101	102	106	100	104		
Sem CA 12264628	Boldi V Gymnast	Doorsopen	Jabir	Nat	76	+253	+22	95	84	+2211	-0.18	-0.12	+0.01	+74	+64	+102	+448	+29	+40	66	+564	106	95	104	97	102	96	102	84	103	105	112	102	109		
CRV NL 738287780	Weelder Esperanto	Final	G-Force	Gnat	88	+252	+41	1390	92	+1193	-0.12	-0.04	+0.04	+39	+37	+50	+249	+49	+24	79	+616	100	102	104	104	103	103	112	99	95	99	109	108	107		
Sem CA 12189047	Stantons Adorable	Supershot	Mcutechen	Nat	83	+251	+19	246	89	+1012	+0.04	+0.03	+0.13	+47	+38	+59	+272	+20	-61	74	+429	103	108	102	99	106	105	108	92	105	107	114	102	111		
Alt US 3126779968	Peak Altatuscan	Davinci	Numero Uno	Nat	84	+247	+29	152	91	+1600	+0.19	+0.05	-0.01	+88	+61	+72	+457	+24	+15	71	+533	106	98	99	97	101	103	101	72	98	100	111	95	103		
CRV NL 924716230	Delta Daily	Danno	Augustus	Gnat	91	+246	+12	448	95	+1725	-0.50	-0.20	+0.08	+20	+39	+87	+228	-2	+9	82	+313	110	105	108	101	100	97	103	95	98	101	105	105	105		
Alt US 3130641796	Peak Altarecoil	Altaspring	Jacey	Nat	79	+245	-7	103	85	+1754	-0.28	-0.02	+0.04	+45	+59	+84	+362	-31	+30	69	+566	100	104	99	100	102	103	107	78	98	101	105	99	102		
Alt US 3129128763	Peak Altatrueshot	Supershot	Mcutechen	Nat	83	+245	+3	189	88	+994	+0.08	+0.03	+0.05	+50	+38	+50	+276	-13	-48	72	+477	103	107	110	102	107	97	107	86	105	105	105	101	105		
CRV NL 622692380	Fg K&L Delight	Cinema	G-Force	Gnat Gn	81	+244	+35	306	88	+927	-0.05	-0.05	+0.06	+44	+27	+48	+218	+0	+8	71	+563	104	104	105	103	99	100	109	91	101	102	110	104	108		
Kam NL 759560912	Baltic	Balisto	Bertil	Gnat	84	+241	-6	210	91	+1485	+0.00	+0.15	+0.01	+63	+67	+69	+428	-17	+33	76	+537	103	98	104	96	99	103	100	87	103	102	100	103	103		
ABS US 70625988	De-Su 11236 Balisto	Bookem	Watson	Nat	98	+241	-1	8281	99	+762	+0.36	+0.34	+0.02	+67	+59	+37	+394	-15	+19	96	+738	102	101	103	104	104	102	99	99	98	100	107	97	102		
CRV NL 941050441	Delta Beatbox	Amigo	Fanatic	Gnat Gn	84	+241	+36	610	90	+1321	-0.11	+0.09	-0.07	+67	+55	+53	+382	+111	+58	75	+283	102	103	108	102	98	104	103	94	98	99	99	101	99		
K&L DK 06880303577	Vh Balisto Brook	Balisto	Denim	Nat	80	+241	+3	53	85	+76	+0.95	+0.36	-0.09	+88	+35	-5	+327	+19	+28	69	+599	106	101	102	105	101	97	102	82	97	98	107	100	103		
CRV DK 02371402785	Tirsvad Gogo	Supershot	Massey	Gnat	83	+241	+6	161	90	+1214	-0.20	-0.08	+0.00	+31	+34	+55	+221	+12	+46	74	+466	108	105	105	101	108	93	104	91	94	103	105	102	102		
AWE NL 755898972	Cogent Dg Superstyle	Supersire	Super	Nat 2n	85	+240	+5	122	92	+2337	-0.47	-0.20	+0.10	+47	+59	+118	+376	+9	-1	77	+530	105	102	102	99	108	104	103	87	102	103	104	98	102		
Tot NL 747280806	Dg Dv Caelum	Supershot	Mogul	Nat	73	+240	+13	45	80	+1406	+0.00	-0.13	+0.06	+60	+36	+70	+295	+28	-13	66	+545	108	102	102	100	105	98	103	71	103	104	107	102	106		
WWS US 70626040	De - Su Mg Davinci 11288	Mogul	Watson	Nat	84	+239	+13	51	89	+1569	+0.09	+0.00	+0.08	+76	+55	+80	+409	-9	+11	77	+554	103	100	103	102	101	104	100	87	98	101	109	98	103		
Tot NL 678889750	Hul-Stein Casey	Supershot	Mogul	Nat	70	+238	-14	49	79	+1509	-0.06	+0.00	+0.07	+58	+52	+76	+358	-15	-16	64	+424	103	104	104	100	105	96	104	68	98	103	102	101	101		
CRV NL 755139																																				

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NVIdubbeldoel = 0,35*Inet + 0,09*lvd + 5,2*UGH + 5,2*VRU + 5,2*Uier + 6*Beenwerk + 2*GEB + 5,2* VLI

Perspublicatie stierindexen Zwartbont

December 2020

Ki Stiernummer	Stiernaam	Erf-fac/Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	KgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext		
Ai Bull number	Bull name	Her-fac Sire	MGS	S N	Rel NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	KgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T		
Melkdoel Zwart					pnt		Productie										€	€	Functioneel										Exterieur						
CRV NL 662437877	Delta Barrage	Final	Maik	Gnat Gn	79	+221	-8	161	87	+1383	-0.14	-0.12	-0.05	+44	+36	+58	+257	-49	+1	71	+566	105	102	105	102	100	91	103	87	99	102	101	105	103	
K&L DK 02371402380	Vh Barkley	Bookem	Gibor	Gnat	89	+221	+11	191	94	+1387	-0.30	-0.09	-0.04	+28	+39	+59	+236	+35	+32	78	+509	104	102	106	104	97	99	104	90	95	97	104	105	103	
Alt DE 0355936976	Rr Altamopan	Mogul	Super	Nat	92	+221	-2	450	97	+1373	-0.12	-0.26	+0.11	+46	+21	+74	+205	-2	+36	86	+625	105	100	105	99	98	99	104	87	98	101	109	106	108	
CRV NL 724941269	Weelder Endurance	Bravo	G-Force	Gnat	85	+220	+21	508	91	+1521	+0.02	-0.01	+0.01	+67	+52	+71	+375	+34	+51	76	+435	101	101	103	106	102	97	100	95	96	94	106	99	101	
WWS US 74261651	Melarry Josuper Frazzled	Josuper	Shotglass	Nat	76	+220	+20	38	82	+2064	-0.21	-0.19	-0.06	+65	+51	+88	+372	+33	-2	65	+572	107	99	106	98	105	98	103	80	99	102	103	93	98	
CRV NL 548848001	Delta Galore	Balisto	Gravity	Gnat	95	+220	+0	2091	97	+1418	-0.26	+0.13	+0.03	+33	+63	+68	+348	-7	+43	88	+608	103	96	93	102	98	94	105	99	92	99	108	105	104	
CRV NL 661726440	Double W Rodeo	Regard	Snowfever Cd	Gnat Gn	83	+220	-2	412	90	+893	+0.26	+0.10	+0.12	+63	+41	+52	+316	-42	+7	74	+366	101	101	104	104	102	98	104	92	101	103	107	106	108	
GGI DE 0121142902	Bolaro	Boss	Beacon	Gint	82	+219	+10	18	84	+1950	-0.41	-0.11	+0.05	+38	+56	+94	+338	-8	+1	79	+253	100	104	104	100	103	106	102	81	102	101	106	104	106	
Alt US 3129037603	Endeo Superhero	Supershot	Número Uno	Nat	79	+219	-24	79	87	+1502	-0.17	-0.05	+0.03	+46	+47	+72	+311	-10	-26	70	+526	102	101	106	102	106	105	107	86	105	106	109	99	107	
Bov US 73143748	Ronelec Midnight Detour	Midnight	Mogul	Nat	78	+218	+1	69	87	+1245	-0.01	-0.05	-0.02	+52	+38	+55	+282	-8	+45	68	+460	102	104	106	103	97	103	102	83	98	95	110	97	102	
CRV NL 687206379	Delta Jupiler	Amigo	Snowfever Cd	Gnat	90	+218	+19	3207	92	+1090	-0.50	-0.06	-0.04	-3	+32	+46	+139	+27	-8	82	+419	105	106	107	106	99	104	109	99	100	105	110	104	108	
STG US 72128125	Edg Rubicon	Mogul	Roylane Socra R	Nat	93	+217	+23	394	97	+819	+0.53	+0.10	+0.12	+86	+38	+49	+351	+24	+4	85	+478	102	98	108	98	102	100	97	96	101	105	109	105	108	
WWS US 3126700062	Cookiecutter Shot Henley	Supershot	Mogul	Nat	78	+217	-12	94	86	+1449	-0.14	-0.18	-0.11	+47	+32	+77	+253	+5	-14	70	+470	104	106	101	101	104	100	104	84	103	103	109	99	106	
CRV NL 875952040	Bouw Final	Danno	Epic	Gnat	98	+217	+23	8081	99	+1018	-0.19	-0.09	+0.12	+24	+27	+58	+179	+12	+6	93	+536	106	102	105	103	105	97	105	89	97	103	105	108	106	
ABS US 3130010295	De-Su 13050 Spectre	Woodcrest Mogu	Supersire	Nat	81	+216	+1	249	86	+1604	+0.30	-0.07	-0.02	+99	+48	+71	+426	-12	-8	69	+269	100	101	106	101	102	103	100	83	105	103	101	101	103	
Mas DE 0358162492	Missan	Missouri	Mccutchen	Gint	79	+216	-2	36	85	+1697	-0.13	-0.19	-0.11	+58	+39	+66	+302	-13	+9	66	+444	102	101	104	102	101	104	105	80	93	99	112	100	104	
Sem US 72531549	Zahbuls Aviator-Et	Supersire	Badger-Bluff Fa	Nat	82	+216	+32	177	89	+817	+0.16	+0.00	+0.06	+50	+28	+43	+233	+34	-24	73	+381	107	105	110	101	112	98	103	86	98	104	104	100	102	
CRV NL 599978140	Delta Conan	Commander	Sterngold	Gnat	88	+216	+3	432	93	+426	+0.25	+0.21	-0.02	+41	+34	+18	+231	+25	-15	79	+329	106	98	103	102	104	104	109	95	96	103	109	111	110	
ABS DE 0538894921	Wilda Hamlet	Supershot	Saloon	Nat	78	+215	+11	77	86	+1771	-0.20	+0.00	+0.04	+54	+62	+85	+393	+13	-56	69	+330	106	102	100	101	104	99	102	84	103	105	103	98	102	
CRV NL 665198319	Double W Rush Hour	cd	Final	Snowfever Cd	Gnat Gn	84	+215	-32	478	90	+581	+0.13	+0.22	+0.08	+37	+41	+34	+256	-107	-43	74	+338	104	101	106	108	105	96	104	94	105	105	105	111	111
CRV BE 911953889	Doodhoek Kingston	Jasper	Massey	Gnat	89	+215	+18	426	94	+1292	-0.50	+0.08	-0.02	+4	+53	+57	+243	+3	+30	79	+435	106	102	106	100	100	93	107	95	96	99	101	101	100	
Alt US 3129037884	Mr Salvatore	RF	Dymenholm S	Nat	81	+213	+19	118	88	+2010	-0.39	-0.29	-0.13	+43	+39	+106	+282	+27	-34	71	+487	108	100	102	104	101	95	103	89	102	106	111	100	107	
CRV NL 917456064	Delta Semper	Solution	Stellando Rf	Gnat	89	+212	+10	406	94	+1100	-0.31	-0.07	+0.00	+16	+31	+50	+176	-6	+16	79	+211	108	104	107	107	99	96	107	94	97	98	103	106	104	
CRV BE 411506393	Delta Bulb	Edison	Mascol	Gnat	91	+212	-2	158	96	+903	-0.35	-0.18	-0.19	+4	+14	+60	+84	-0	+34	85	+551	108	109	105	103	101	98	102	91	102	103	100	105	104	
Sem US 72852002	De-Su Galapagos	Deductive	Mogul	Nat	86	+211	+1	388	92	+1523	-0.17	-0.17	+0.05	+47	+35	+75	+265	+7	+45	76	+606	101	102	99	98	101	100	108	91	95	99	109	98	102	
CRV NL 678889806	Delta Elagaaster Jenever	Crescendo	Sudan	Gnat	85	+211	-21	278	92	+1294	-0.26	-0.14	-0.05	+29	+31	+54	+204	-12	+20	76	+395	100	104	104	105	99	105	111	92	97	100	105	106	105	
WWS US 3008897582	S-S-I Snowman Mayflower	Snowman	Socrates	Nat	87	+210	+4	156	90	+2486	-0.49	-0.17	+0.06	+50	+67	+120	+416	+16	+2	81	+535	103	99	98	99	99	100	100	92	101	104	104	97	101	
WWS US 71813425	De-Su Peenik 11839	Platinum	Shamrock	Nat	90	+209	+11	181	95	+851	-0.10	-0.05	-0.05	+26	+25	+34	+167	+7	-15	81	+813	110	104	100	102	105	92	101	93	101	102	107	98	103	
CRV NL 888659628	Delta Bookem Danno	Bookem	Bolton	Gnat	99	+209	+6	29751	99	+989	-0.24	-0.07	+0.02	+18	+28	+47	+167	+0	-22	99	+138	108	105	107	100	100	89	103	99	100	104	104	111	109	
WWS US 70625809	De-Su Rookie 11057-Et	Bookem	Bronco	Nat	87	+208	+5	239	90	+1030	+0.19	-0.06	+0.03	+62	+30	+50	+268	+35	+29	80	+476	100	103	106	100	108	99	105	91	99	99	105	101	103	
WWS US 3131083927	Aot Silver Helix	Silver	Supersire	Nat	82	+207	-25	111	87	+1655	+0.20	-0.08	-0.02	+91	+49	+73	+414	-17	-48	71	+213	100	101	107	101	103	106	100	88	97	103	106	98	102	
Gex US 73316308	Weigeline Jacey Tabasco	Jacey	Bookem	Nat	90	+207	-22	544	95	+1936	-0.36	-0.03	+0.02	+43	+64	+91	+380	-30	-13	81	+306	101	102	105	100	106	98	102	94	105	102	101	100	102	
Alt US 3129205459	Peak Altaamulet	Josuper	Mogul	Nat	84	+207	-1	202	89	+1894	-0.18	-0.14	+0.01	+61	+51	+88	+364	-39	-7	72	+441	102	99	101	99	108	100	103	86	104	105	110	99	107	
GGI DE 0337057055	Bedford	Beacon	Goldwyn	Gnat	85	+207	+14	40	90	+1204	-0.07	+0.00	+0.00	+44	+42	+55	+281	+19	+42	76	+494	106	103	100	99	100	98	100	83	101	101	105	97	102	
CRV NL																																			

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVImelkdoel = 0,4*Inet + 0,08*lvd + 4,7*UGH + 6,3*VRU + 1,8*Uier + 3,6*Beenwerk + 1,8*GEB + 2,7*KGH + 0,23*BVK

NVIdubbeldoel = 0,35*Inet + 0,09*lvd + 5,2*UGH + 5,2*VRU + 5,2*Uier + 6*Beenwerk + 2*GEB + 5,2* VLi

Perspublicatie stierindexen Zwartbont

December 2020

Ki Stiernummer	Stiernaam	Erf-fac/Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	kgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext		
Ai Bull number	Bull name	Her-fac Sire	MGS	S N	Rel NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	kgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T		
Melkdoel Zwart					pnt		Productie										€		Functioneel										Exterieur						
Gex US 3128463273	Syrzyczuk Silvr Blowtorch	Silver	Altaoak	Nat	76	+199	+4	34	80	+999	+0.27	+0.02	-0.03	+69	+37	+43	+310	+12	-38	66	+301	104	105	105	98	104	102	96	80	102	105	110	98	106	
GGI DE 0538393143	Board Et	Boss	Epic	Gnat	88	+199	+5	125	93	+1245	-0.18	-0.03	-0.03	+35	+40	+60	+256	-3	-13	76	+443	108	99	106	101	104	97	104	89	104	104	104	101	104	
GGI DK 03372306619	Dante	Danno	Bynke	Gint	76	+199	+1	31	85	+1751	-0.57	-0.20	+0.01	+14	+40	+81	+218	-2	+39	68	+272	107	101	107	102	100	96	101	82	99	99	105	105	105	
CRV NL 767212379	Delta Lonestar	Regard	Sunset	Gnat	87	+199	-24	417	92	+517	+0.11	+0.11	+0.10	+32	+28	+33	+192	-40	+38	77	+427	107	103	102	97	100	101	103	95	96	100	105	102	103	
CRV NL 925119199	Newhouse Vernal	cd	Ajax Cd	Cricket	Gnat 2n	91	+199	+0	191	96	-279	+0.58	+0.31	+0.01	+38	+17	-12	+146	-6	-24	86	+276	106	111	101	109	102	97	104	92	101	102	104	102	104
Alt US 3129037624	Ihg Caine	Supershot	McCutehen	Nat	84	+198	+10	422	90	+896	+0.08	+0.01	+0.01	+46	+32	+42	+240	+49	-64	75	+391	101	105	104	102	104	100	105	91	103	106	110	103	109	
CRV NL 930896036	Newhouse Jasper	cd	G-Force	Cnicket	Gnat	91	+198	-8	121	96	+464	+0.19	+0.23	+0.02	+37	+38	+23	+240	-9	+37	84	+182	103	105	102	103	97	94	105	94	97	97	107	101	103
Tot DE 0538910879	Yuppi	Woodcrest Mogu	Roylane Socra R	Nat	67	+197	-36	39	77	+1607	+0.03	-0.11	-0.05	+71	+44	+68	+350	-77	-9	61	+442	100	99	106	98	105	105	101	62	99	103	103	102	103	
Alt US 3009976647	No-Fla Altagenuity	Epic	Trigger	Nat	89	+197	+4	318	94	+722	-0.29	-0.19	+0.18	+3	+7	+50	+50	+14	-2	80	+728	106	106	106	104	103	102	109	91	100	101	108	101	105	
Alt US 55618778	Glen-D-Haven Altahotrod	Jerod	Altaiota	Nat	86	+196	+17	122	91	+1888	-0.21	-0.11	-0.00	+58	+54	+86	+369	+38	-24	74	+144	101	102	97	97	101	103	102	86	106	103	106	104	108	
ABS US 69087180	View-Home Monterey Et	McCutehen	Roylane Socra R	Nat	90	+196	-2	285	95	+673	+0.09	+0.03	+0.08	+37	+26	+38	+196	-15	+34	81	+462	102	102	109	100	108	106	104	94	93	97	113	100	104	
GGI DE 0355165348	Bube Et	Beacon	Jeeves	Gnat	92	+196	+14	156	96	+1581	-0.46	-0.25	+0.03	+19	+29	+75	+181	-1	+42	86	+448	100	103	104	101	110	105	106	94	103	98	100	110	106	
WWS US 70626131	De-Su Ltm Rodgers 11379-Et	Lithium	Briegen Russell	Nat 2n	86	+196	-4	75	90	+784	-0.11	-0.16	+0.07	+23	+12	+43	+110	-22	+32	80	+407	108	107	109	107	102	98	104	79	97	98	102	100	100	
Alt US 71996878	Wesselerest Altaanteup	Mogul	Observer	Nat	95	+195	-7	876	98	+2014	-0.26	-0.21	+0.06	+57	+47	+99	+342	-16	-9	90	+331	100	98	107	97	107	106	101	94	103	105	109	103	108	
Alt US 3131131438	Peak Altalobello	Donatello	McCutehen	Nat	81	+195	+10	238	86	+679	+0.21	-0.01	+0.10	+49	+23	+41	+210	-20	+6	70	+383	105	105	105	99	107	104	103	83	98	101	108	98	103	
WWS US 3014365400	Old Rodgers Franchise	Rodgers	Mogul	Nat	77	+195	-3	33	82	+1202	-0.15	-0.15	-0.04	+36	-27	+59	+204	-1	-14	65	+343	108	103	109	107	103	100	101	81	93	101	110	97	102	
CRV NL 844352916	Delta Healer	Bolt Rf	Snowman	Gnat	79	+195	+13	22	87	+521	+0.34	-0.11	-0.05	+54	+8	+19	+152	+0	+1	71	+342	110	104	103	100	108	98	102	85	100	103	107	103	106	
Alt US 3125475781	Peak Altacanjuror	Jabir	Mogul	Nat	77	+194	+8	77	87	+767	+0.27	+0.08	-0.07	+58	+34	+28	+270	+7	-54	67	+366	99	105	102	99	104	100	105	66	96	105	108	103	105	
K&L FR 5632667935	Jetset	Dooman	Emes	Gnat	94	+194	+33	1537	97	+366	+0.05	+0.13	+0.05	+20	+25	+21	+151	+12	-26	85	+689	110	101	101	101	106	95	105	99	103	105	113	98	107	
WWS US 3125066459	Welcome Legendary 2870	Damaris	Shema Jeeves Ca	Nat	75	+194	-1	41	81	+198	+0.27	+0.01	+0.05	+33	+8	+14	+106	-4	+14	63	+664	106	106	101	94	104	99	106	82	96	99	108	99	102	
CRV NL 656787711	L. W Crescendo	Stellando Rf	Planet	Gnat	94	+193	-10	279	97	+1314	+0.09	-0.05	+0.02	+65	+41	+62	+323	-7	+45	88	+227	99	104	108	104	98	105	102	96	98	102	101	98	99	
CRV US 3010356101	Mr Maribel Jacey Marlow	Jacey	Número Uno	Gnat	82	+193	+6	50	90	+1024	-0.17	-0.09	+0.06	+27	+27	+53	+183	+6	+4	72	+657	109	103	99	96	106	103	102	86	97	101	109	96	102	
Alt US 73728275	Df Altaparian	McCutehen	Roylane Socra R	Nat	82	+192	-4	107	88	+959	+0.05	-0.02	+0.05	+46	+31	+49	+238	-3	+4	77	+321	101	104	106	101	105	102	101	82	96	101	107	104	105	
Sem CA 12130526	Westcoast Pledge	Pulsar	Lady's-Manor Mar Int	Nat	79	+192	+37	23	89	+859	+0.17	-0.05	+0.00	+53	+25	+39	+226	+46	+10	63	+307	103	105	103	102	103	101	102	77	96	100	114	98	105	
WWS US 71913155	De-Su Ss Honeybee 11569	Supersire	Bookem	Nat	89	+192	+4	318	95	+1212	-0.19	-0.17	+0.08	+32	+25	+63	+189	+22	-22	80	+390	106	106	107	99	104	101	103	92	104	104	106	98	104	
Alt US 3133064302	Endco Argo	RF CD	Silver	Supersire	Nat	71	+192	+9	20	78	+565	+0.06	-0.01	+0.09	+30	+19	+34	+151	-39	+21	66	+356	103	108	105	98	104	104	100	78	98	102	114	100	107
CRV NL 751089743	Koepon Clover	Icone	Shotglass	Gnat	82	+192	+37	259	89	+538	+0.06	-0.04	+0.08	+28	+15	+32	+130	+7	+8	72	+600	106	102	105	103	101	103	103	92	101	103	108	105	108	
CRV NL 767661874	Ms Riverboy	RF	Aikman	Planet	Gnat	95	+192	+32	581	98	-79	+0.55	+0.02	+0.05	+45	-1	+1	+91	+27	+35	87	+472	111	104	97	103	106	96	108	98	91	100	103	102	101
WWS US 70412495	Jenny-Lou McCutehen Crank It	McCutehen	Altaiota	Nat	83	+191	+23	121	90	+1286	-0.03	-0.07	+0.10	+51	+38	+69	+284	+18	-64	74	+325	108	101	105	101	108	98	99	85	102	105	109	100	106	
Alt US 3126668023	Peak Altagenero	Altagenuity	Massey	Nat	68	+191	+55	58	76	+919	+0.02	-0.03	+0.08	+41	+29	+50	+220	+172	+42	58	+581	106	101	102	106	103	100	102	58	96	98	104	99	100	
CRV NL 753102213	D'n Driehoek Nilson	G-Force	Boxer	Gnat	93	+191	+11	275	97	+172	+0.35	+0.30	-0.04	+39	+33	+4	+218	+2	+19	86	+304	100	105	108	102	103	99	103	94	99	100	106	103	104	
CRV NL 538172899	Tjebbinga Geelong	G-Force	Mascol	Gnat 2n	95	+191	+1	365	98	+249	+0.44	+0.11	-0.05	+51	+19	+7	+187	+5	+29	91	+376	105	101	102	101	94	91	107	95	100	100	101	107	104	
AWE DE 0538538554	Brentano	Balisto	Sudan	Gnat	95	+191	+34	1666	97	+199	+0.17	+0.08	+0.15	+24	+14	+23	+115	+1	-4	87	+869	106	103	102	103	103	110	104	99	102	106	108	100	106	
CRV NL 921320519	Newhouse Adaro	Monopoly	Jeeves	Gnat	89	+191	-14	140	95	+121	+0.23	+0.02	+0.13	+26	+6	+17	+84	-9	+40	81	+608	109	106	104	99	103	102	102	91	102	102	104			

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVIImelkdoel = 0,4*Inet + 0,08*lvd + 4,7*UGH + 6,3*VRU + 1,8*Uier + 3,6*Beenwerk + 1,8*GEB + 2,7*KGH + 0,23*BVK

NVIDubbeldoel = 0,35*Inet + 0,09*lvd + 5,2*UGH + 5,2*VRU + 5,2*Uier + 6*Beenwerk + 2*GEB + 5,2* VLI

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Ki Stiernummer	Stiernaam	Erf-fac Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	kgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext		
Ai Bull number	Bull name	Her-fac Sire	MGS	S N	Rel NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	kgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T		
Melkdoel Zwart						pnt	Productie										€	€	Functioneel										Exterieur						
WWS US 69981349	Seagull-Bay Supersire	Roylane Socra R	Planet	Nat	97	+183	-7	1019	99	+1574	-0.10	-0.12	+0.07	+56	+42	+79	+314	+1	+12	94	+396	104	102	106	99	109	100	99	99	102	105	101	95	99	
Alt US 3131131390	Peak Altaforever	Silver	Badger-Bluff Fa	Nat	82	+183	+6	221	87	+964	+0.15	+0.04	+0.00	+56	+37	+44	+283	-9	-34	72	+325	101	100	104	101	102	106	104	85	104	105	112	102	109	
Sem IT 53990116251	Toc-Farm Fitz	Dooman	Snowman	Nat	91	+183	-8	574	96	+1397	-0.22	-0.11	-0.05	+37	+37	+59	+247	-21	-55	83	+188	109	101	107	98	101	99	99	94	101	106	115	99	109	
WWS US 143189741	Wa-Del Yoder Bandares	Woodcrest Mogu	Massey	Nat	83	+183	-15	114	88	-204	+0.37	+0.21	+0.08	+23	+11	-2	+93	-38	-30	70	+539	108	104	106	95	104	109	102	89	104	105	111	103	109	
US 3131131493	Peak Altantra	Wickham	Supersire	Nat	73	+182	-41	87	82	+1157	+0.20	-0.10	+0.03	+69	+30	+56	+285	-68	-2	64	+284	103	101	106	102	104	100	78	103	101	108	100	105		
WWS US 3132344633	No-Fla Lavon 42698	Supershot	Mayflower	Int	72	+182	+11	31	86	+1557	-0.37	-0.17	+0.00	+28	+37	+71	+232	+12	-17	61	+479	105	104	105	103	103	99	101	67	100	104	105	96	101	
ABS US 70726929	Uecker Supersire Josuper	Supersire	Beacon	Nat	91	+181	-23	397	96	+2364	-0.26	-0.19	-0.05	+71	+61	+102	+430	-39	-24	84	+367	101	98	107	98	107	99	100	93	101	104	101	94	98	
Alt NL 751487480	Peak Altamarlon	Altaspring	Co-Op O-Style O	Int	71	+181	-46	16	86	+1908	-0.32	-0.18	+0.00	+46	+47	+87	+315	-50	-14	55	+321	97	104	105	102	101	104	68	101	105	111	98	106		
GGI NL 919137781	Vendairy Lesson	Let It Snow	Bookem	Gnat	83	+181	+26	58	91	+1429	-0.18	-0.14	+0.06	+42	+35	+71	+253	+15	-18	74	+511	106	100	99	96	104	100	98	86	103	104	110	101	107	
CRV NL 967155003	Delta Silverman	Danno	Stan	Gnat	90	+181	+4	184	95	+1399	-0.41	-0.12	+0.11	+17	+36	+75	+206	+3	-47	81	+244	108	102	102	98	98	97	102	92	101	105	107	105	107	
CRV US 3125645118	Bush-Bros Balist Trident	Balisto	Day	Gnat	86	+180	-3	270	92	+694	+0.44	+0.18	+0.03	+71	+41	+35	+328	-7	+14	77	+312	106	98	102	100	101	97	98	93	97	102	108	98	103	
ABS US 71813276	De-Su 11690 Fantasmic	BY	Galaxy	Bookem	Nat 2n	83	+180	+10	99	91	+1188	+0.00	+0.01	+0.00	+50	+42	+54	+293	+1	+17	74	+449	107	98	103	103	107	95	99	80	97	102	106	97	101
Gex US 73124156	Maplehurst Stoic Wilder	Spruce-Haven St	Mogul	Nat	78	+180	+23	110	85	+682	+0.17	+0.12	+0.02	+45	+35	+33	+248	+17	+43	67	+456	101	99	99	104	102	100	82	93	98	111	105	106		
CRV NL 872395747	De Biesheuvel Joshua	CD	Regard	Balisto	Gnat Gn	77	+180	+43	54	86	+556	+0.14	+0.16	+0.03	+37	+34	+28	+226	-104	+2	69	+550	104	99	102	107	97	103	106	86	97	103	107	105	103
CRV NL 533730469	Delta G-Force		Man-O-Man	Jordan	Gnat	99	+179	-2	17885	99	+675	+0.17	+0.16	-0.02	+45	+39	+29	+263	-4	+63	99	+234	97	104	102	103	99	99	101	99	98	99	103	105	103
Sem US 3129016082	Stanton Adagio-P	PO	Powerball P	Mccutchen	Nat	81	+179	+37	226	88	+1109	-0.13	-0.09	+0.01	+34	+30	+52	+210	-6	-46	72	+264	106	101	104	94	97	100	107	91	103	105	107	103	107
Tot NL 876060421	Koning Rambo		Silver	Supersire	Nat	69	+179	-8	45	79	+710	+0.05	-0.10	+0.13	+35	+15	+45	+149	-27	-18	62	+382	104	106	105	100	103	104	72	103	105	109	103	108	
Tot DE 066664451	Mr. Cobain	Missouri	Supersire	Nat	69	+178	-39	40	78	+1479	-0.34	-0.14	-0.06	+28	+37	+61	+229	-83	-18	62	+447	105	104	105	101	101	100	101	70	100	102	103	97	100	
ABS CA 11720553	Brabandale Drake		Commander	Mccutchen	Nat	79	+178	-1	118	87	-504	+0.90	+0.46	+0.06	+54	+21	-18	+194	+45	+16	71	+256	107	102	105	101	107	102	102	83	96	97	111	99	104
GGI NL 940147494	Molenkamp Bolt	RF	Bookem	Spencer	Gnat	95	+178	+4	709	98	+653	-0.09	+0.12	-0.04	+19	+34	+26	+187	-7	+36	90	+151	106	105	105	98	109	97	100	97	98	101	106	101	103
CRV NL 675268482	Delta Wisent	RF	Whatsapp Rf	Atlantic	Gnat	89	+178	+18	975	93	+769	-0.60	-0.09	-0.02	-25	+18	+37	+32	+35	-20	81	+594	106	105	106	97	104	101	110	99	101	102	110	102	107
CRV NL 751519714	Apina Malcolm	RF	Stellando Rf	Ramos	Gnat	95	+177	-7	642	98	+1291	-0.14	-0.02	-0.03	+41	+47	+56	+296	-6	-38	90	+76	101	100	106	100	101	98	105	96	99	102	96	108	102
CRV NL 923896036	Delta Mover		Mobile	Solero	Gnat	87	+177	+27	268	92	-206	+0.48	+0.29	+0.06	+33	+18	-4	+142	+27	-25	78	+334	109	105	101	101	103	97	102	94	103	104	102	104	105
Sem US 74414205	Westcoast Kerrigan		Kingboy	Numero Uno	Nat	79	+176	+8	64	87	+1579	-0.13	-0.08	+0.00	+53	+47	+72	+326	+16	+9	70	+371	102	101	103	93	102	102	98	84	100	101	111	94	103
WWS US 3123886035	S-S-I Montross Jodi		Montross	Supersire	Nat	90	+176	+6	303	94	+1978	-0.59	-0.07	+0.15	+20	+61	+107	+324	+9	+4	79	+422	107	103	104	101	111	98	94	94	99	102	109	87	98
K&L DK 04141202640	Vh Tirsvad Sundance Stu		Sundance	Bookem	Gint	80	+176	+6	25	88	+2037	-0.39	-0.20	+0.04	+44	+49	+97	+322	+3	+3	71	+511	104	98	102	97	100	100	97	86	99	99	106	98	102
GGI NL 916344441	Mars Mandela		Mogul	Super	Gint 2n	83	+176	-11	34	87	+676	+0.14	+0.09	+0.02	+42	+32	+33	+229	-22	+7	72	+428	102	104	107	98	104	100	101	82	98	99	101	99	99
CRV NL 945194293	Delta Rumba P	RF PO	Silver	Maddock P	Gnat	85	+176	-4	378	91	+646	+0.24	+0.03	+0.13	+50	+25	+42	+220	-7	+24	76	+321	104	100	100	104	102	102	106	94	92	100	110	101	103
Sam NL 866038759	Vvh Boobytrap		Bookem	Maik	Nat	74	+175	+10	56	82	+864	+0.03	+0.02	+0.01	+40	+32	+40	+227	+5	-10	68	+535	103	102	102	102	102	94	101	78	95	102	100	103	100
K&L US 69981344	Seagull-Bay Sargeant		Badger-Bluff Fa	Planet	Nat	93	+174	-6	417	97	+2656	-0.65	-0.38	-0.06	+38	+49	+128	+319	-7	-14	88	+400	99	101	98	96	103	102	104	95	102	107	107	99	105
CRV NL 941810667	Peeldijker Limousine		Crescendo	Dooman	Gnat	86	+174	-20	544	92	+1170	-0.03	+0.06	-0.05	+47	+47	+48	+306	-37	-13	79	+320	104	102	103	102	101	96	101	95	99	105	104	95	100
OBS DE 0358174839	Milord		Missouri	Headliner	Gint	80	+173	-11	44	86	+1029	-0.08	-0.01	-0.07	+36	+35	+40	+231	-26	+35	67	+343	103	101	103	103	101	100	103	82	89	96	108	99	100
Alt US 3011527649	No-Fla Altavino		Mccutchen	Massey	Nat	82	+173	-6	59	87	+736	+0.16	-0.02	+0.07	+47	+24	+40	+209	-16	-33	71	+164	110	101	106	100	106	97	102	74	99	103	112	98	105
WWS US 3129135873	Leaninghouse King Abel		Kingboy	Supersire	Nat	76	+172	+14	58	80	+1674	-0.28	-0.11	+0.08	+42	+47	+85	+306	+39	-52	72	+271	103	102	108	98	102	99	101	72	101	103			

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVImelkdoel = 0,4*Inet +0,08*lvd +4,7*UGH +6,3*VRU +1,8*Uier +3,6*Beenwerk +1,8*GEB +2,7*KGH + 0,23*BVK

NVIdubbeldoel = 0,35*Inet +0,09*lvd +5,2*UGH +5,2*VRU +5,2*Uier +6*Beenwerk +2*GEB + 5,2* VLI

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Ki	Stiernummer	Stiernaam	Erf-fac	Vader	M-vader	B	N	Bt	NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	KgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext					
	Ai	Bull number		Bull name	Her-fac	Sire	MGS	S	N	Rel	NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	KgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temp	MS	CLW	Rel	F	DS	U	F&L	T			
Melkdoel Zwart										pnt	Productie										€	€	Functioneel										Exterieur									
CRV	US	3013064533		Intense-Com Yoder Splash		Woodcrest Mogu Day				Gnat	86	+164	-35																													
K&L	FR	2229184217		Louxour		Iznogoud		Bg		Gnat	82	+164	+14																													
GGI	NL	709809726		Topspeed Go Now	RF	G-Force		Ralstom		Gnat	85	+163	+4																													
OBS	DE	0358110833		Milton		Missouri		Snowflake		Gint	78	+163	+2																													
GGI	DE	0538281295		Balu		Balisto		Epic		Gnat	93	+163	-2																													
ABS	US	70625980		De-Su 11228 Topsy		Bookem		Watson		Int	90	+163	-16																													
CRV	NL	655683425		Bouw Ebonit		Regard		Boss		Gnat	Gn	82	+163	-17																												
CRV	DK	02371402716		Tirsvad Gala		Bube		Levi		Gnat	91	+163	+19																													
Tot	DE	0356477983		Davos		Daddy		Badger-Bluff Fa		Gnat	2n	81	+163	+8																												
Tot	NL	865148639		Hul-Stein Champ		Platinum		Shamrock		Nat	86	+162	+9																													
Bov	US	3012559636		T-Gen-Ac Doodler		McCutchen		Altaiota		Nat	72	+162	+1																													
STG	US	3010365126		Mr Dds Mega-Watt-Et	RF	Megasire		Alchemy		Nat	81	+162	+27																													
Sam	NL	740466834		Big Malki		Maik		Jorjyn		Gnat	98	+162	-6																													
CRV	NL	934274522		Delta Magister		Whatsapp Rf		Direct		Gnat	92	+162	-21																													
GGI	DE	0538251988		Blossom		Boss		Snowman		Gnat	91	+162	-5																													
WWS	US	72754131		Pen-Col Marty		Supersire		Bookem		Nat	75	+161	+6																													
CRV	NL	546055236		Weelder Solution		Goliath		Laudan		Gnat	93	+161	-10																													
Mas	DE	0536607584		Amaz	RF	Aikman		Pioneer		Gint	82	+161	-5																													
Sem	CA	107559777		Swissbec Brekem	RF	Bookem		Man-O-Man		Nat	96	+161	-4																													
Sem	US	3014561903		Sandy-Valley Afterburner		Flame		Mogul		Nat	82	+160	-2																													
WWS	US	72044077		Morningview Mcc Kingbov		McCutchen		Super		Nat	94	+160	-5																													
Alt	US	72395545		T-Spruce Altajuke		Welcome Super F		Observer		Nat	86	+160	+2																													
WWS	US	72436679		Edg Esther Estate 8132		Mogul		Bookem		Nat	81	+160	-15																													
Gex	US	73685315		Richmond-Pd Troy Bub		Troy		Lithium		Gint	80	+160	+7																													
CRV	NL	938401263		Buisweerd Mobile		G-Force		Bertil		Gnat	98	+159	+12																													
WWS	US	69502423		Kerndway Kingpin		McCutchen		Observer		Nat	84	+159	+9																													
CRV	US	3013023061		Edg Clown		Mogul		Lavaman		Gint	82	+158	+15																													
Alt	US	69312636		Sar-Jas Altaime	cd	Predstine		Snowman		Int	79	+158	-8																													
CRV	NL	716548160		Delta Rozet		Jasper		Yano		Gnat	88	+158	-28																													
Mas	DE	0538551420		Borani-Et		Boss		Epic		Gnat	85	+157	-4																													
GGI	IT	97990030448		Suran		Super		Mr Bums		Nat	84	+156	+16																													
Sam	NL	724441769		Vvh Snapshot		Supershot		Maik		Nat	n	78	+156	n																												

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NVIdubbeldoel = 0,35*Inet +0,09*lvd +5,2*UGH +5,2*VRU +5,2*Uier +6*Beenwerk +2*GEB + 5,2* VLI

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Ki Stiernummer	Stiernaam	Erf-fact Vader	M-vader	B	N	Bt	NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	KgI	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext					
Ai Bull number	Bull name	Her-fac Sire	MGS	S	N	Rel	NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	KgI	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temp	MS	CLW	Rel	F	DS	U	F&L	T					
Melkdoel Zwart							pnt		Productie										€	€	Functioneel										Exterieur									
Mas DE 0357400200	Bonando	Boss	Beacon	Gint		80	+148	-10		49	88	+1421	-0.08	-0.09	+0.01	+52	+40	+66	+293	-12	+10	70	+174	101	102	101	94	104	100	97	82	97	97	102	100	100				
Alt US 69829747	Lone-Oak-Acres Altaroble	Mogul	Observer	Nat		91	+148	-12		304	96	+616	-0.19	-0.14	+0.16	+8	+8	+43	+63	-24	+19	83	+392	102	106	102	100	105	106	100	88	101	102	114	103	110				
STG US 72436822	Edg Ransom Lucent 8275	Ransom	Snowman	Nat		81	+147	+6		139	88	+944	-0.02	+0.02	+0.14	+38	+35	+57	+240	+18	-16	71	+388	103	99	104	104	105	102	102	86	103	106	104	99	103				
Alt US 3129128755	Peak Altaotto P	PO	Powerball P	Mccutchen	Nat	76	+147	+23		84	83	+616	+0.06	+0.19	+0.07	+32	+39	+35	+238	+32	-10	66	+337	103	101	104	100	106	105	101	78	99	102	106	96	101				
GGI DE 0666050471	Big Point	Bookem	Man-O-Man	Gnat		90	+147	-7		224	96	+1614	-0.55	-0.12	+0.09	+11	+44	+83	+228	-14	+15	83	+478	101	99	102	96	101	99	100	91	94	103	109	99	103				
WWS US 70625882	De-Su Distinction 11130	Shamrock	Man-O-Man	Nat		78	+147	-15		27	86	+783	+0.27	-0.06	+0.16	+59	+21	+51	+225	-4	+48	73	+503	100	100	102	101	102	103	102	82	98	100	104	97	100				
OBS DE 0356230573	Modena	CD	Mogul	Digger	Gint	82	+147	+7		24	87	+1373	-0.24	-0.15	+0.10	+34	+32	+73	+225	+7	+10	82	+270	103	97	106	106	102	107	102	83	99	104	112	100	107				
CRV NL 921226060	Vero Startrek	Snowfiever Cd	Planet	Gnat		98	+147	+7	10120	99	+730	-0.06	+0.09	-0.02	+25	+34	+31	+201	-5	-24	95	+163	102	104	95	103	97	91	103	99	104	101	108	103	107					
WWS US 3131003289	S-S-I Silver Spike	Silver	Jacey	Nat		74	+146	-16		88	83	+1650	-0.21	-0.24	+0.10	+48	+32	+86	+258	-28	-15	66	+232	102	98	104	99	107	104	82	105	105	113	100	109					
Sem CA 107870104	Comestar Lineman	Mogul	Man-O-Man	Nat		87	+146	-8		99	92	+630	+0.15	+0.01	-0.12	+41	+23	+40	+192	-3	+21	77	+286	104	98	104	98	103	101	99	86	97	102	119	99	109				
Tot US 70477026	Mr Moviestar Model	Roylane Socra R	Planet	Nat		76	+146	-2		22	83	+900	-0.32	-0.14	+0.13	+7	+18	+54	+105	-6	+15	69	+543	100	103	104	100	106	102	107	77	100	102	103	102	103				
GGI DE 0770248602	Mission P	RF PO	Missouri	Asterix P	Gnat	81	+145	-7		99	89	+1236	-0.15	+0.03	+0.02	+37	+46	+58	+284	+4	+34	71	+207	99	101	105	99	99	97	104	88	102	100	104	94	100				
Mas DE 0666761983	Ironboy	RF	Icone	Meridian	Gnat	75	+145	+18		38	84	+447	+0.14	+0.10	-0.03	+32	+25	+23	+177	-11	-12	66	+169	102	106	102	92	99	106	102	79	105	105	112	96	106				
GGI UK 388380300287	Nugget		Numero Uno	Destry	Gint	81	+145	+11		27	89	+407	+0.62	+0.11	+0.05	+35	-5	-14	+49	+0	+22	73	+371	106	108	102	101	101	105	105	86	88	96	109	94	97				
AWE US 3011816312	Co-Op Renegade		Mccutchen	Atwood	Nat	2n	82	+144	-4	46	85	+1055	+0.13	-0.07	+0.05	+58	+30	+53	+261	-12	+34	71	-40	99	102	106	100	103	105	98	78	96	98	112	100	105				
Alt FR 7261003981	Eba Alajethro		Tango	Mogul	Nat	72	+144	-13		36	81	+1187	-0.18	-0.12	+0.06	+32	+29	+60	+204	+12	+6	73	+99	102	103	103	100	104	100	104	72	99	101	105	100	103				
AWE DE 0666493155	Come On		Commander	Lexor	Gint	81	+143	-28		62	86	+700	+0.51	+0.15	+0.05	+78	+39	+37	+335	-24	-29	69	+58	99	103	103	103	106	105	101	83	103	102	104	95	101				
Tot BE 612596500	Dukefarm Sillian		Silver	Meridian	Gint	77	+143	-3		37	85	+1017	+0.20	-0.07	+0.12	+63	+28	+58	+265	+32	-18	69	+152	99	99	107	99	102	108	100	83	100	102	109	103	107				
Tot DE 0121740596	Pg Sv Tracer		Tribeune	Headliner	Gint	75	+143	-1		38	85	+1440	-0.41	-0.14	-0.02	+19	+36	+64	+207	-3	-22	64	+461	100	103	102	98	102	104	102	77	100	102	106	97	102				
Mas DE 0356766096	Buzz		Banesto	Toscano	Gint	82	+143	+19		69	88	+605	-0.21	+0.07	+0.05	+6	+28	+32	+137	+22	+19	68	+472	108	99	106	100	106	95	100	83	104	101	108	97	104				
US 3126779961	Peak Altamorenro		Co-Op Upd Hunt	Mogul	Nat	87	+142	+1		447	91	+1996	-0.15	-0.12	+0.04	+68	+56	+96	+401	-20	+12	76	+76	100	97	101	100	102	94	99	88	102	105	106	95	102				
GGI DE 0538431063	Basisto		Balisto	Epic	Gint	83	+142	+11		45	88	+1053	-0.12	-0.02	+0.03	+33	+35	+51	+228	-0	+31	71	+415	97	102	104	102	101	108	99	82	102	99	106	99	103				
Tot US 73508041	Dg Kingboy Sniper		Kingboy	Dymenholm S S	Gint	77	+142	-20		45	86	+1501	-0.45	-0.23	-0.01	+17	+28	+67	+171	-23	-29	67	+335	107	98	105	98	97	97	101	84	103	105	114	99	109				
Sem CA 12302901	Progenesis Outlast		Doorsopen	Altaoak	Nat	74	+142	-14		52	83	+612	+0.14	-0.06	-0.01	+39	+16	+27	+156	-23	-16	66	+287	108	101	104	99	101	96	98	83	101	102	112	98	106				
WWS US 71667860	Matt-Dari Mogul Payton		Mogul	Man-O-Man	Nat	85	+142	-30		78	89	+381	-0.08	+0.00	+0.11	+9	+13	+28	+81	-30	+22	74	+308	107	105	103	102	108	101	99	81	100	100	109	99	104				
CRV NZ DMLF-11-5	Delta Alonso		Atlantic	Shottle	Gnat	97	+142	+7	1835	99	+131	+0.08	+0.19	-0.05	+1	+12	-10	+48	+4	+8	94	+158	100	104	107	101	102	102	108	99	93	94	105	111	105					
Tot US 70354883	Farnear-Thr-Bh Cashmoney	CD	Observer	Goldwyn	Nat	2n	77	+142	+0	23	84	+543	-0.27	-0.09	+0.02	-2	+10	+27	+45	+9	+8	71	+409	107	107	103	108	100	101	102	79	98	101	107	97	102				
CRV NL 734797988	Delta Lender P	RF PO	Raffer P Rf	Balisto	Gnat	Gn	74	+142	-3	20	84	+643	+0.42	+0.36	-0.02	+7	+7	-31	+34	-29	+13	67	+439	102	104	105	104	104	99	108	83	91	97	106	104	102				
CRV NL 498938423	Delta Atlantic		Ramos	O Man	Gnat	99	+142	-3	66450	99	-111	-0.05	+0.16	-0.15	-9	+10	-18	+17	-2	-20	99	+194	107	105	108	101	102	97	108	89	103	103	101	106	105					
US 74072170	Wessecrest Altalambeau		Montross	Grafetti	Nat	76	+141	+9		61	85	+2133	-0.55	-0.13	-0.01	+30	+60	+96	+338	+26	-19	65	+190	100	102	101	103	103	102	100	71	102	103	105	92	99				
Sem CA 109011053	Silverridge V Kyrian		Kingboy	Mogul	Nat	81	+141	-20	123	87	+1366	+0.16	-0.15	-0.04	+74	+32	+66	+306	-27	-35	70	+293	97	100	105	103	104	100	99	84	102	105	108	99	105					
Tot DE 0356563083	Garant		Galaxy	Snowman	Gnat	82	+141	-5	51	89	+1769	-0.12	-0.24	-0.05	+62	+36	+76	+301	-4	+11	72	+262	103	93	104	104	107	104	100	83	100	104	107	102	105					
Alt NL 751090024	Peak Altakameo		Montross	Supersire	Nat	69	+141	+12	59	79	+1385	-0.31	-0.05	+0.09	+27	+43	+72	+255	+21	-4	62	+260	102	105	106	103	109	102		68	99	103	102	90	96					
Sam NL 866039170	Vvh Bookmaker		Bookem	Maik	Nat	83	+141	-3	160	90	+1608	-0.39	-0.18	+0.01	+27	+37	+74	+231																						

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVI melkdoel = 0,4*Inet + 0,08*lvd + 4,7*UGH + 6,3*VRU + 1,8*Uier + 3,6*Beenwerk + 1,8*GEB + 2,7*KGH + 0,23*BVK

NVI dubbeldoel = 0,35*Inet + 0,09*lvd + 5,2*UGH + 5,2*VRU + 5,2*Uier + 6*Beenwerk + 2*GEB + 5,2* VLI

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Ki Stiernummer	Stiernaam	Erf-fac/Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	kgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext													
Ai Bull number	Bull name	Her-fac/Sire	MGS	S N	Rel NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	kgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T													
Melkdoel Zwart					pnt		Productie										€										Functioneel										Exterieur									
WWS US 3009533223	Mr Oed Epic Dragonheart	Epic	Planet	Int	84	+135	-7	71	90	+2284	-0.55	-0.43	+0.00	+36	+32	+104	+238	+19	+34	78	+341	100	101	98	103	101	104	86	101	101	109	96	103													
Tot DE 0357608923	Basta	Balisto	Epic	Gnat	85	+135	-13	77	90	+765	-0.20	-0.03	+0.03	+13	+24	+38	+137	+6	-22	73	+574	104	101	102	102	101	102	98	86	98	102	109	100	104												
Tot UK 388380500653	Willbross So Astonishing	Silver	Epic	Gnat	81	+135	+9	73	89	+400	+0.13	+0.01	+0.05	+29	+15	+23	+129	+23	-48	71	+297	104	105	104	100	103	103	101	86	104	104	108	99	106												
Sem US 70801849	Coyne-Farms Jetset	Facebook	Badger-Bluff Fa	Nat	77	+135	+10	24	85	+523	+0.05	-0.07	+0.00	+27	+12	+24	+113	-9	-17	70	+420	101	108	101	103	109	102	81	100	102	102	100	101													
Kam NL 717343458	Elagaster Salero	BY Cricket	Mascol	Gnat	92	+135	-15	368	97	+1066	-0.55	-0.10	+0.09	-9	+27	+58	+109	-4	+38	88	+682	101	105	101	106	99	105	101	90	100	98	99	99													
WWS US 3004373270	Rondeel Gold Digger	CD Goldwyn	Outside	Int	88	+135	-4	39	92	+795	-0.39	-0.17	+0.00	-4	+11	+36	+48	+7	+38	83	+257	107	104	112	112	96	104	104	86	94	97	108	95	99												
Sem US 73956539	Morningview Upright	Kingboy	Número Uno	Nat	85	+134	-30	469	91	+922	+0.16	-0.03	-0.07	+55	+29	+35	+245	-31	-21	75	+364	96	104	110	98	103	103	102	91	103	103	106	92	100												
Sem CA 107931151	Silverridge V Extreme	Supersire	Snowman	Nat 2n	81	+134	+6	51	88	+1420	-0.31	-0.17	-0.01	+28	+32	+64	+209	+14	+7	73	+362	100	103	100	99	100	99	99	87	103	103	104	99	103												
OBS DE 0538771582	Trend	Tribune	Mogul	Gint	78	+134	+3	40	85	+1314	-0.45	-0.31	+0.07	+10	+14	+67	+99	+11	-29	65	+432	100	105	101	97	102	106	103	79	103	103	112	101	108												
Mas US 3011584418	Starhawk	Supersire	Observer	Gnat	88	+133	-36	181	95	+1379	-0.14	-0.16	-0.10	+44	+32	+53	+240	-23	-31	80	+351	106	99	103	95	106	94	97	88	106	106	104	97	103												
GGL NL 549639817	Bailando	Balisto	Número Uno	Gint	82	+133	-16	16	85	+230	+0.28	+0.24	+0.04	+35	+30	+14	+201	-37	-19	70	+423	104	102	103	100	102	98	99	82	101	101	108	93	101												
Tot NL 876060399	Ko-Gen Tarzan	DP Silver	Supersire	Gint	77	+133	-8	25	85	+749	-0.09	-0.04	+0.05	+23	+22	+39	+150	-28	-60	69	+327	102	103	105	96	104	102	100	84	103	105	113	100	109												
Tot DE 0357640597	Barolo	Balisto	Shamrock	Gnat	87	+133	+18	164	93	+560	-0.31	+0.09	-0.02	-5	+28	+27	+112	-1	-1	77	+808	101	104	98	101	101	107	97	88	95	98	111	96	102												
Kam NL 756624448	Giessen Utopia	Rubicon	Snowman	Gnat Gn	78	+132	+10	100	87	+443	+0.57	+0.15	+0.04	+72	+29	+24	+277	-6	+15	70	+260	103	98	102	100	93	98	95	85	104	104	107	98	104												
WWS US 69128229	Roylane Boxer Punch 4311	Boxer	O Man	Nat	96	+131	+34	3056	98	+459	+0.13	+0.02	+0.05	+32	+18	+26	+149	+28	-33	90	+68	101	107	104	96	96	96	108	99	104	104	100	99	101												
Alt US 74414026	Igh Montana	Montross	Número Uno	Nat	80	+131	+3	136	88	+751	+0.11	-0.16	-0.07	+42	+11	+41	+146	-13	-10	71	+342	104	108	103	99	102	107	98	87	103	104	106	91	100												
CRV NL 734278627	Delta Titanium	Ramos	O Man	Gnat	98	+131	-9	14582	99	+443	+0.09	-0.07	-0.02	+27	+9	+18	+99	-2	+10	99	+173	102	105	108	101	103	105	102	99	103	104	104	102	105												
Sem US 71640112	L-L-M-Dairy President	Número Uno	Million	Nat	85	+131	-8	83	92	+946	-0.23	-0.28	-0.04	+18	+6	+39	+74	-14	+34	77	+492	102	104	102	100	103	104	106	87	99	95	108	96	101												
GGL DE 0536762679	Snowflake	Snowman	Goldwyn	Gnat	88	+130	+13	127	94	+1549	-0.30	-0.14	-0.05	+34	+39	+66	+251	+10	+21	81	+183	103	98	100	97	91	97	98	90	99	100	108	100	104												
Alt US 70625846	De-Su Altajackman	Snowman	Massey	Nat	94	+130	-8	856	98	+1193	-0.22	-0.10	-0.03	+29	+31	+51	+203	-3	+23	88	+352	109	98	90	96	99	98	98	92	94	101	109	98	102												
WWS US 3006972816	Mountfield Ssi Dey Mogul	Dorcy	Marsh	Nat	97	+130	-17	1246	99	+874	+0.13	-0.14	+0.12	+50	+17	+52	+190	-16	+35	95	+336	97	99	107	101	106	110	100	99	99	102	113	101	107												
Sem US 3013129308	Lady's-Manor Octoberfest	Altaiac	Dorcy	Nat	82	+130	+3	36	84	+1321	-0.20	-0.27	-0.09	+36	+19	+69	+174	-16	-25	79	+395	105	103	104	98	98	97	95	80	100	103	107	96	102												
Adv NL 968412961	Krüdiker Bitacora	Bookem	Man-O-Man	Gnat	80	+130	+10	39	88	+682	-0.01	-0.05	+0.09	+28	+19	+40	+149	+12	-38	72	+433	106	100	104	100	102	92	100	83	100	103	105	100	103												
Kam NL 925177281	T Brook Hacker	Stonewall	Jorryn	Gnat	86	+130	-9	113	93	+79	+0.09	+0.11	+0.04	+11	+13	+7	+79	-30	+26	77	+377	100	104	103	102	108	96	105	85	99	99	100	105	105												
Dek FR 2279421648	Jeiraki	McCutchin	Altaiota	Gnat	85	+129	+13	129	92	+795	+0.18	+0.01	+0.00	+51	+29	+36	+237	+0	-12	75	+127	104	104	105	97	98	99	95	90	102	102	110	97	105												
Alt US 73953344	Bomaz Altacapo	Altaprimo	Roylane Socra R	Nat	76	+128	-3	88	83	+283	+0.21	+0.14	+0.00	+31	+23	+13	+163	-19	-2	63	+222	102	106	101	97	105	103	101	68	99	101	104	96	100												
CRV NL 720660029	Delta Saxobeat	Epic	Bolton	Gnat	95	+127	-13	1070	98	+1177	-0.10	-0.06	+0.03	+40	+35	+57	+245	-8	-72	89	+132	100	98	104	99	105	98	107	97	106	106	104	104	107												
WWS US 3011538150	S-S-I Sterling Damaris	Sterling	Bookem	Nat	79	+127	-9	17	81	+701	-0.09	-0.05	-0.02	+21	+20	+30	+135	-18	+45	76	+579	102	101	103	99	102	99	101	78	90	97	106	95	97												
Mas NL 920855490	Heidenskipster Kingman	Kingboy	Gerard	Gint	79	+127	-8	20	85	+1547	-0.37	-0.39	+0.04	+27	+13	+75	+133	-21	-13	69	+246	100	104	105	100	100	102	102	84	101	103	110	100	106												
AWE US 69990227	De-Su Ransom	Roylane Socra R	Ramos	Nat	92	+127	+22	927	96	+109	+0.25	+0.09	+0.06	+17	+4	+0	+52	+12	-31	84	+517	101	106	106	107	107	104	105	95	104	105	101	101	103												
Tot NL 548077232	Snowbiz Symion	Dymentholm S S	Snowman	Gint	76	+126	-12	24	85	+760	+0.09	-0.16	-0.06	+41	+11	+29	+140	-19	-3	66	+127	102	103	102	104	98	104	100	79	95	103	112	102	106												
Alt US 3011611135	Bush-Bros Altastratify-Et	Supersire	Badger-Bluff Fa	Nat	87	+125	-3	179	92	+1463	-0.23	+0.04	+0.00	+38	+55	+67	+325	-40	-5	75	+293	98	99	103	101	101	102	99	85	96	103	100	96	97												
Bov US 72436717	Edg Uno Comingo 8170	Número Uno	Snowman	Nat	79	+125	-7	61	87	+1249	-0.10	-0.15	+0.05	+43	+28	+62	+224	+4	+4	71	+397	103	99	102	94	103	98	100	83	104	101	109	93	102												
Sam NL 636232057	Cogent De Crob Moat	Kingboy	Mogul	Nat	74	+125	-17	42	82	+1140	-0.26	-0.15	-0.01	+22	+25	+51	+164	+3	-13	67	+275	103	101	105	98	100	98	100	81	101	103	110	98	105												
WWS US 71303599	Le-O-La Mogul Gambler	Mogul	Atwood	Int 2n	84	+125	-3																																							

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVImelkdoel = 0,4*Inet +0,08*lvd +4,7*UGH +6,3*VRU +1,8*Uier +3,6*Beenwerk +1,8*GEB +2,7*KGH + 0,23*BVK

NVIdubbeldoel = 0,35*Inet +0,09*lvd +5,2*UGH +5,2*VRU +5,2*Uier +6*Beenwerk +2*GEB + 5,2* VLI

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Ki Stiernummer	Stiernaam	Erf-fac/Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	KgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext							
Ai Bull number	Bull name	Her-fac Sire	MGS	S N	Rel NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	KgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T							
Melkdoel Zwart					pnt		Productie										€		€		Functioneel										Exterieur									
Alt US 70541411	Dycecrest Altaskycrest		Altacaliber	Regancrest-Hhhf	Nat	97	+118	+6	2023	99	+1248	-0.11	-0.17	+0.01	+42	+26	+58	+212	+4	-2	95	+134	102	101	98	102	102	104	104	96	103	105	104	98	103					
WWS US 3009569536	Rugg-Doc Coman		Epic	Observer	Int	82	+118	+13	38	87	+1304	-0.55	-0.16	-0.01	-1	+29	+59	+135	+18	-51	74	+422	107	102	98	100	102	102	102	84	107	104	107	95	104					
Alt US 58912079	Melarry Altaflex		Altasuplex	Rovlane Socra R	Int	86	+118	+2	40	92	+452	-0.22	-0.12	-0.01	-1	+5	+20	+24	+2	+8	76	+370	103	108	106	101	104	101	104	84	97	99	103	96	98					
ABS NL 947618485	Barkamper Villaar		Snowrush	Bookem	Nat	80	+117	+2	73	88	+1794	-0.42	-0.23	+0.09	+31	+38	+91	+248	-7	-2	72	+190	109	98	91	93	103	98	94	76	102	102	109	97	104					
ABS US 69791634	Morningview Liftoff		Rmw Armitage	Shottle	Nat	79	+117	+11	41	81	+1013	-0.07	-0.09	+0.10	+36	+26	+56	+199	+11	-2	76	+99	105	102	100	101	100	100	102	80	93	102	105	94	98					
Sam NL 725755940	Holbra Esmar		Pulsar	Emerald	Nat	71	+117	+12	89	82	+355	+0.14	+0.05	+0.11	+28	+17	+26	+136	+29	-14	62	+190	105	102	102	98	101	98	70	97	101	108	99	103						
GGI DE 1265310822	Benares P	PO	Balisto	Shema Jeeves Ca	Gint	78	+117	-3	22	86	+587	-0.25	-0.02	+0.03	+1	+19	+30	+89	+8	-10	69	+491	104	102	100	98	104	101	102	83	98	99	108	98	102					
Sem CA 11458020	Donnandale Juggernaut		Epic	Planet	Nat	91	+117	+8	295	96	+224	+0.05	+0.06	+0.12	+14	+13	+21	+89	+15	-13	84	+396	105	104	102	101	105	99	104	88	102	102	102	96	100					
WWS US 3009554422	S-S-I Tape Overlay		Pine-Tree Brian	Man-O-Man	Nat	76	+117	+5	20	82	+396	+0.05	-0.05	+0.02	+21	+9	+20	+87	-13	-34	76	+396	107	100	101	107	101	103	101	77	91	98	107	98	100					
Kam NL 738378123	Het Meer Pensiate		Penley	Aiwood	Gnat Gn	76	+117	+36	47	86	+193	+0.14	-0.01	-0.01	+21	+8	+10	+80	+37	-13	68	+486	107	101	99	97	104	93	99	82	98	102	110	99	104					
Kam NL 762344576	New Moore Integer		Impression	O Man	Gnat	83	+116	+19	100	91	+1604	-0.42	-0.28	+0.05	+24	+27	+78	+185	+15	+43	73	+375	103	96	105	94	100	96	103	86	101	103	106	96	102					
Sam NL 737132388	Vvh Repairman		Maik	Snowman	Nat	95	+116	-10	1115	98	+469	+0.24	+0.03	-0.08	+42	+19	+14	+170	-11	-37	90	+311	103	98	103	101	99	97	103	96	99	104	97	106	102					
Sem CA 107288785	Gregori One Direction		Epic	Garrett	Nat	82	+116	-13	93	91	+1358	-0.37	-0.35	+0.03	+20	+12	+65	+111	-17	+11	73	+417	104	103	102	98	101	97	75	102	102	109	94	102						
CRV NL 585920601	Delta Dairyman		Whatsapp Rf	Stellando Rf	Gnat	84	+116	+1	285	91	-92	-0.05	+0.03	+0.03	-8	-1	-2	-22	-8	-1	76	+510	106	104	93	107	109	94	102	93	98	99	107	107	107					
Bov US 72693301	Mr Donalynn Dark King		Day	Siemens Toys He	Int	77	+115	-2	29	88	+1450	-0.18	-0.22	+0.00	+43	+28	+66	+225	+11	+10	66	+109	106	98	99	93	103	98	81	103	98	106	97	102						
CRV BE 412534452	Delta Feeling		Malcolm Rf	Ingger	Gnat	89	+115	-13	412	94	+1096	-0.17	-0.13	-0.04	+30	+25	+46	+179	-16	-41	79	+186	103	97	104	98	106	104	103	95	94	92	101	102	99					
Kam NL 639677471	T Brook No Claim		Twist	Jorryn	Gnat	87	+115	+29	170	93	-48	+0.52	+0.18	+0.02	+44	+14	+0	+150	+8	-11	78	+245	97	102	105	99	105	102	106	89	104	101	98	105	103					
Tot NL 879978343	Buiner Mc Kayne		Mccutchen	Colby	Gnat	82	+115	+1	45	89	+1308	-0.34	-0.28	-0.01	+21	+17	+59	+132	-6	-28	73	+28	103	104	106	99	103	104	102	84	103	101	106	100	104					
Tot NL 665165320	Hbc Silver Chelsea		Silver	Supersire	Gnat Gn	76	+115	-18	34	85	+466	+0.11	-0.06	+0.14	+30	+11	+34	+118	-36	-48	69	+118	101	105	106	98	103	103	99	82	103	106	108	103	108					
WWS US 3014334961	S-S-I Partyrock Profit		S-S-I Maurice P	Mogul	Nat	77	+115	-26	49	86	+96	+0.16	+0.14	+0.06	+18	+16	+10	+106	-25	+34	66	+383	103	102	103	102	106	103	98	82	94	99	110	97	102					
Tot NL 925868619	Broeks Modious		Mogul	Toystory	Nat 2n	92	+114	+4	491	97	+1690	-0.31	-0.31	+0.12	+39	+26	+90	+216	-13	+14	85	+156	101	100	101	101	105	110	96	89	102	102	107	101	105					
Tot DE 0538820963	Dv Dh Quan		Supershot	Massey	Nat	73	+114	-37	69	83	+959	-0.09	-0.04	+0.14	+32	+29	+58	+204	-19	+11	65	+350	104	101	100	102	108	99	94	69	99	102	106	95	101					
GGI FR 2934544535	Disanto Et		Dooman	Dempsey	Gint	79	+114	+27	25	85	-99	+0.67	+0.15	-0.02	+54	+10	-6	+153	+44	-68	68	+224	109	99	99	100	101	95	100	82	101	101	115	97	107					
Gex US 71753166	River-Bridge Co-Op Troy		Mogul	Badger-Bluff Fa	Nat	85	+114	-8	43	88	+189	+0.07	+0.06	+0.08	+14	+12	+16	+83	+6	+34	74	+493	99	105	104	103	104	104	100	86	98	101	106	97	101					
Sem US 71637328	Richmond-Fd El Bombero		Número Uno	Super	Nat	86	+113	+5	129	93	+1400	-0.08	-0.17	-0.18	+51	+31	+45	+248	-4	-25	79	+231	104	98	103	98	99	100	102	89	106	103	107	92	102					
Kam NL 724915581	Willem's-Hoeve Nudan		Penley	Sudan	Gnat Gn	77	+113	+11	72	87	+1289	-0.33	-0.08	-0.02	+21	+37	+57	+213	+7	+0	69	+331	104	98	96	96	104	100	99	80	106	104	105	99	105					
Ves IT 019500393890	New Farm Britt Prince		Britt	Moto	Nat	98	+113	+5	6469	99	+58	-0.04	-0.10	+0.05	-1	-7	+7	-29	+2	+57	99	+763	104	103	96	99	104	94	102	99	100	99	96	106	101					
Alt US 72421381	Ste-Pen Alawishin		Supersire	Altabaxter	Nat	85	+112	+20	164	91	+1870	-0.08	-0.08	-0.01	+71	+57	+86	+409	+35	+8	81	+137	96	92	105	100	105	101	99	69	100	102	103	98	101					
ABS US 3128557697	Abs Jonas		Silver	Tango	Nat	74	+112	-15	41	82	+547	+0.10	-0.10	-0.04	+33	+10	+21	+117	-48	+11	66	+150	99	103	107	100	107	108	101	79	100	101	110	101	106					
US 72436793	Edg Lillico Mogul 8246		Mogul	Snowman	Nat	79	+112	-1	85	88	-34	+0.33	+0.16	-0.05	-28	+13	-6	+110	+18	+15	76	+303	101	102	102	102	105	103	81	99	102	111	100	106	106					
Mas DE 0355988713	Mozarella		Mogul	Destry	Gint	82	+112	-12	32	88	-28	+0.31	+0.10	+0.13	+26	+8	+10	+90	+7	+4	73	+335	101	102	106	101	101	109	99	83	99	104	114	100	108					
GGI DE 1501864770	Biathlon		Beacon	Jeeves	Gint	89	+112	+3	54	94	+566	+0.13	-0.19	-0.06	+36	+2	+20	+90	-1	+29	82	+324	104	103	95	98	104	99	98	92	99	101	107	102	105					
GGI DE 0356650078	Fergus		Fanatic	Snowman	Gint	79	+111	+8	31	87	+2113	-0.33	-0.25	+0.00	+53	+46	+96	+329	-25	+39	70	+200	98	95	101	102	101	103	99	83	99	101	104	97	100					
Alt NL 522740642	Mars Altafixman		Fibrax	O Man	Int	82	+111	+9	40	91	+772	+0.14	+0.17	+0.00	+46	+43	+35	+283	+4	-2	78	+87	99	101	100	105	101	104	99	68	104	100	102	97	101					
WWS NL 418232662																																								

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVImelkdoel = 0,4*Inet + 0,08*lvd + 4,7*UGH + 6,3*VRU + 1,8*Uier + 3,6*Beenwerk + 1,8*GEB + 2,7*KGH + 0,23*BVK

NVIdubbeldoel = 0,35*Inet + 0,09*lvd + 5,2*UGH + 5,2*VRU + 5,2*Uier + 6*Beenwerk + 2*GEB + 5,2* VLI

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Ki Stiernummer	Stiernaam	Erf-fac Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	KgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext		
Ai Bull number	Bull name	Her-fac Sire	MGS	S N	Rel	NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	KgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temp	MS	CLW	Rel	F	DS	U	F&L	T	
Melkdoel Zwart						pnt	Productie										€	Functioneel										Exterieur							
Dek DE 0538431070	Jalisto	Balisto	Epic	Gnat	87	+106	+18	311	93	+246	+0.19	+0.21	+0.02	+28	+28	+13	+178	-12	-58	78	+304	100	103	104	100	102	105	101	90	105	103	103	97	102	
CRV NL 532128858	Caps Sunset	Diamond	Goldwyn	Gnat	98	+106	-4	3401	99	-36	-0.06	+0.00	+0.10	-7	-1	+7	+17	+0	+51	99	+383	104	107	103	100	106	102	104	99	91	94	107	94	97	
CRV NL 948106260	Newhouse Skyfall	G-Force	Goldwyn	Gnat	97	+105	-18	3245	99	+599	+0.00	+0.17	-0.07	+25	+37	+21	+211	-21	+20	93	+129	96	103	94	106	95	96	104	99	105	104	101	101	103	
Sem CA 11761809	Silveridge V Elude	Mccutchen	Snowman	Nat	2n	90	+105	+7	362	96	+1331	-0.27	-0.26	+0.06	+29	+20	+67	+163	-7	-10	82	+179	99	99	103	104	102	104	105	92	98	102	108	101	104
WWS US 71703339	Bacon-Hill Montross	Mogul	Bolton	Nat	93	+104	-2	730	97	+2033	-0.51	-0.23	+0.01	+31	+46	+94	+282	-8	+18	86	+175	98	101	104	101	109	107	98	97	100	102	106	90	98	
Alt US 56350338	Sully Altameri	Roylane Socra R	Planet	Nat	88	+104	-3	144	93	+1165	-0.10	-0.05	-0.02	+39	+36	+51	+245	-17	+44	78	+231	100	97	103	98	103	102	102	81	95	96	102	95	96	
Mas NL 919137806	Vendairy Lendary	Let It Snow	Bookem	Gnat	87	+104	-18	140	92	+1040	-0.05	+0.00	-0.02	+39	+36	+46	+243	-29	-47	75	+245	100	98	103	96	104	101	98	90	104	104	106	100	105	
Alt US 72667540	Aardema Altaaces	Supersire	Sherac	Nat	2n	89	+104	-6	345	95	+814	-0.06	+0.01	+0.12	+29	+29	+49	+195	+9	-8	79	+269	99	103	101	103	101	101	87	102	101	103	95	100	
WWS US 71592934	Ladys-Manor Shakespeare	Epic	Shottle	Nat	82	+104	+24	45	85	+883	+0.03	-0.09	-0.02	+40	+22	+38	+186	+42	-23	80	+259	102	99	102	96	101	102	100	81	102	103	110	97	105	
CRV NL 894608124	Willen's-Hoeve R Browning	Snowman	Ramos	Gnat	97	+104	-2	5388	99	+1186	-0.18	-0.20	-0.02	+32	+21	+56	+170	+7	-14	93	+89	104	97	103	98	101	98	103	99	105	105	107	100	106	
Alt US 3010356295	Edg Altajango	Tango	Shamrock	Nat	83	+104	-14	224	91	+430	+0.20	+0.02	+0.09	+37	+17	+28	+156	-11	-18	73	+35	101	103	102	98	105	105	104	82	105	104	107	98	105	
Sem US 3128769229	Stantons Expander	High Octane	Número Uno	Nat	74	+104	+11	97	84	+1483	-0.49	-0.31	+0.24	+12	+20	+92	+135	+20	-42	64	+383	105	102	95	86	108	99	77	103	103	113	94	105		
Ves IT 024990369520	D Mason Berico	D Mason	Goldwyn	Nat	85	+103	-9	145	92	+877	-0.12	-0.04	-0.02	+26	+27	+38	+177	-7	-9	76	+254	101	102	102	99	101	96	96	84	98	102	102	100	101	
WWS US 3127943686	S-S-I 1stclass Flagship	Altalstclass	Supersire	Nat	81	+103	-8	67	86	+604	+0.12	-0.06	+0.07	+37	+15	+34	+149	-20	+17	69	+290	105	105	108	101	108	101	93	86	96	101	109	86	96	
Kam NL 924169340	Big Position	Twist	Jornyn	Gnat	93	+103	+3	447	97	-576	+0.66	+0.30	-0.07	+30	+5	-32	+74	+0	-34	87	+135	102	104	104	96	104	98	106	93	100	104	101	103	103	
WWS US 70594754	Melary Robust Miles	Roylane Socra R	Shot At	Nat	81	+102	-6	31	83	+1179	+0.15	-0.08	-0.04	+65	+33	+58	+289	-12	-48	79	+107	94	96	103	95	98	102	104	77	98	97	102	100	100	
Mas DE 0355893047	Mytime	Mogul	Shottle	Gint	83	+102	-21	31	88	+1163	-0.09	-0.08	+0.09	+40	+32	+62	+234	-18	-17	73	+268	97	98	101	99	104	106	99	83	102	104	110	100	107	
Bov CA 109227869	Lactomont Lightning	Commander	Sargeant	Int	77	+102	-13	26	89	+1165	-0.18	-0.07	+0.00	+31	+34	+53	+220	-12	+13	60	+262	100	95	99	101	108	106	104	68	100	101	107	100	104	
CRV NL 727555328	Batenburg G. Stelloando	Fidelity	O Man	Gnat	98	+102	-2	41988	99	+314	+0.13	+0.13	-0.08	+25	+23	+7	+149	-6	+24	99	-64	95	105	104	102	105	104	100	99	99	100	95	110	102	
CRV NL 922820786	Lowlands Debark	Danno	Stellando Rf	Gnat	90	+102	+4	1473	93	+345	-0.36	-0.01	+0.06	-18	+11	+21	+14	+19	-67	83	+160	103	102	109	100	104	99	98	99	99	103	108	113	111	
Tot UK 726652500563	Bb Metallic	Silver	Supersire	Nat	66	+101	-47	33	75	+862	+0.11	-0.11	+0.08	+47	+19	+47	+191	-63	-36	61	+193	96	103	105	97	102	104	99	68	105	106	108	99	106	
Sem US 71302825	Mr Lookout P Enforcer	Facehook	Shottle	Nat	78	+101	-0	21	84	+858	-0.23	-0.03	-0.03	+14	+27	+42	+153	-16	-27	68	+123	98	107	100	101	103	103	80	100	103	107	97	103		
Tot US 70476887	Budreview Playball	Altaiota	Planet	Nat	77	+100	+9	22	84	+1058	-0.25	-0.06	+0.09	+20	+31	+57	+186	-3	-29	72	+126	102	102	103	103	96	103	100	82	102	105	101	98	101	
OBS DE 0357565192	Alban	Album	Beau	Gint	78	+100	+12	21	84	+755	-0.17	+0.02	+0.12	+16	+28	+46	+162	+4	-35	65	+78	104	104	104	103	102	100	100	80	104	104	106	93	101	
CRV NL 610971152	Horst Allard	Hunter	Fidelity	Gnat	2n	93	+99	+2	226	97	+67	+0.32	+0.42	+0.00	+31	+40	+3	+230	-4	-25	88	+106	98	101	99	96	109	99	94	99	103	106	105	106	
ABS US 3014558977	Wa-Del Abs Bourbon	Montross	Massey	Nat	81	+99	+0	167	89	+1345	-0.40	-0.17	+0.10	+16	+29	+72	+174	+5	-11	72	+292	102	101	105	102	104	104	100	87	99	102	105	93	99	
CRV US 70803531	Appealing H Copernicus	Shema Jeeves Ca	Dolce	Gint	76	+99	+18	19	85	+1334	-0.83	-0.46	+0.06	-28	+0	+67	+39	+7	-10	67	+603	108	106	102	98	107	98	99	79	104	105	106	95	102	
Sem IT 029990039165	Bovo Bomba	Dooman	Super	Nat	83	+98	-11	225	90	+745	-0.09	+0.06	+0.02	+23	+32	+36	+190	+28	-104	74	+289	101	102	100	96	99	94	100	88	105	102	113	95	106	
CRV NL 753113145	Quatro Patrick	Atlantic	Onedin	Gnat	2n	98	+98	-17	4063	99	+973	-0.39	-0.11	-0.17	+3	+23	+28	+109	-18	-8	96	+170	100	102	104	98	93	104	107	99	106	107	106	98	105
Sem US 71088718	Mr Farnear Mesmer	Mogul	Planet	Nat	84	+98	+9	144	88	+757	-0.14	-0.14	+0.13	+19	+13	+47	+107	+12	+19	74	+243	97	101	105	102	106	101	101	83	99	101	109	103	106	
CRV NL 695732882	Weinterper Fusion	Freeplay	Dynamo	Gnat	86	+98	-27	389	92	-118	+0.22	+0.17	+0.04	+14	+11	-2	+74	-52	-28	77	+504	99	102	96	102	106	106	108	94	101	103	105	101	104	
ABS US 3014558963	Wa-Del Abs Butler Et	Montross	Massey	Nat	83	+97	-20	237	88	+1505	-0.49	-0.02	+0.15	+13	+50	+84	+258	+17	-48	72	+234	102	101	99	96	108	105	95	87	100	103	110	91	101	
K&L DK 000000253217	Vh Tirsvad Goldwyn Grafit	Goldwyn	O Man	Int	88	+97	+8	56	93	+641	+0.17	+0.06	+0.00	+43	+28	+29	+214	+14	+22	82	-100	102	102	101	104	93	101	99	81	94	100	104	96	98	
AWE DK 02371402372	Bangard	Bookem	Xacobeo	Gnat	87	+97	+14	86	92	+895	-0.17	-0.10	+0.00	+21	+21	+41	+143	+7	+11	77	+348	100	98	104	98	107	102	103	86	106	101	106	99	105	
GGI NL 867560215	Rieten Eragon	Epic	Bogart	Gint	81	+97	+9	28	88	+1061	-0.36	-0.28	+0.07	+9	+9	+55	+72	+4	-53	73	+311	103	10												

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVImelkdoel = 0,4*Inet + 0,08*Ivd + 4,7*UGH + 6,3*VRU + 1,8*Uier + 3,6*Beenwerk + 1,8*GEB + 2,7*KGH + 0,23*BVK

NVIdubbeldoel = 0,35*Inet + 0,09*Ivd + 5,2*UGH + 5,2*VRU + 5,2*Uier + 6*Beenwerk + 2*GEB + 5,2* VLI

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Ki Stiernummer	Stiernaam	Erf-fact Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	kgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext															
Ai Bull number	Bull name	Her-fac Sire	MGS	S N	Rel	NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	kgL	INET	+/-	€	€	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T														
Melkdoel Zwart						pnt		Productie											€										Functioneel										Exterieur									
Tot DK 03372306015	Anderstrup Heavy	Massey	Snowman	Gnat 2n	88	+89	-15	174	94	+1044	-0.11	-0.14	-0.02	+33	+22	+46	+173	-25	-5	79	+249	106	97	102	99	104	99	97	89	103	104	106	96	103														
WWS NL 970138118	O-Bee Manfred Justice-Et	Manfred	Elton	Nat	98	+89	-7	5454	99	+671	+0.00	+0.02	+0.05	+28	+25	+35	+172	+0	-29	99	+97	103	104	100	114	97	98	104	99	101	105	95	94	95														
Kam NL 743582931	Eastland Bentley	Balisto	Paramount	Gnat	84	+89	-11	147	91	+692	-0.17	+0.03	-0.01	+13	+27	+31	+147	-17	+26	74	+242	104	101	93	97	101	97	95	86	95	99	109	97	102														
Adv NL 947618726	Barkamper Marilyn Douglas	Dooman	Dempsey	Gnat	89	+89	+19	311	95	+901	-0.38	-0.07	+0.03	+1	+25	+44	+118	+28	-32	80	+228	104	101	95	95	102	100	99	93	103	103	116	97	108														
Bov US 3012171355	Double-Eagle Ransm Kobra	Ransom	Explode	Nat 2n	84	+89	+15	206	91	+209	+0.03	+0.01	+0.12	+12	+8	+20	+64	+15	-21	74	+75	101	108	105	103	108	103	100	85	100	106	107	96	102														
CRV NL 947608400	Batenburg G. Mandela	Maik	Fidelity	Gnat	95	+89	-4	1091	98	+170	-0.02	+0.05	-0.03	+5	+10	+5	+53	-25	-43	87	+296	100	107	99	98	103	102	97	97	97	100	103	104	103														
Gex US 71451889	Co-Op Mogul Lawman	Mogul	Man-O-Man	Int	86	+88	-11	32	91	+549	+0.19	+0.08	+0.00	+41	+27	+25	+204	-15	+15	79	+46	97	98	103	102	106	105	99	87	96	102	109	102	105														
WWS US 3014561968	Sandy-Valley Antares	Kingboy	Mogul	Int	71	+88	+13	25	86	+613	+0.13	+0.02	-0.01	+38	+23	+27	+182	+26	-32	67	-59	100	102	108	101	101	101	67	101	103	108	96	103															
Mas NL 546483691	Poppe Snow	Snowman	Spencer	Gnat	95	+87	+0	1126	98	+1714	-0.30	-0.15	+0.02	+41	+44	+80	+291	-2	+33	91	-18	98	95	102	102	88	104	98	97	102	102	108	98	104														
STG US 3125201935	Edg Defend Breaker 18191-Et	RF	Defender	Supersire	Int	75	+87	-11	21	89	+947	-0.03	-0.04	+0.00	+37	+29	+43	+210	+21	+14	62	+159	100	98	102	98	105	108	96	72	99	101	110	97	104													
ABS US 74146951	Mr Leaninghouse Ammo P Et	RF PO	Kingboy	Lirr Special Ef	Nat	76	+87	+54	52	81	+1496	-0.36	-0.25	+0.09	+26	+26	+78	+185	+124	-72	65	+201	104	95	100	93	93	99	101	81	106	103	113	100	109													
Alt US 3006559787	No-Fla Altaeverglade	Massey	O Man	Nat	96	+87	+7	3174	98	+141	+0.39	+0.19	+0.06	+41	+22	+12	+180	-9	-25	90	+12	105	102	107	102	100	100	98	98	101	105	97	95	97														
Alt US 59109587	Mr Furnace-Hill Altipita	Supersire	Man-O-Man	Nat 2n	90	+87	-4	454	96	+334	+0.25	+0.11	+0.07	+37	+22	+22	+175	-8	-4	82	+61	98	102	108	105	104	102	105	87	98	102	102	94	98														
Tot CA 9608054	Boldi V S G Anton	Epic	Man-O-Man	Nat	80	+87	+22	24	87	+936	-0.32	-0.16	+0.08	+8	+17	+51	+102	+16	-47	73	+354	99	103	102	103	104	107	100	82	101	104	110	98	105														
Sam NL 840511931	Uenk Mexx	RF	Maik	O Man	Nat	85	+87	+2	119	92	+548	-0.44	-0.22	+0.11	-18	-2	+35	-36	+7	-17	76	+606	108	101	99	102	99	93	100	81	99	102	104	102	103													
CRV NL 710409645	Bosgoed Legende	Legend	Jublend	Nat	98	+86	-3	2565	99	-84	+0.13	-0.28	+0.00	+8	+22	-4	+106	-2	-1	97	+19	100	107	99	104	95	99	104	99	98	98	88	103	94														
Alt US 3014335076	Mr Hue Heffner	Diamond	Epic	Nat	86	+86	-8	209	94	-69	+0.14	+0.24	+0.04	+9	+19	+0	+97	-15	-35	76	+499	104	102	99	101	106	98	100	83	99	105	108	92	100														
K&L DK 04780602573	Vh Onside Osmus	Dansire Officer	Exces	Int	83	+86	+16	27	90	+176	-0.09	+0.07	+0.00	-1	+12	+8	+50	+18	-27	74	+423	102	103	103	106	101	97	100	82	86	92	100	95	92														
Sem US 140924073	Brandt-View Police	Gerard	Planet	Nat	87	+86	+18	97	90	+457	-0.18	-0.14	+0.11	+3	+3	+31	+28	+36	-29	80	+256	103	105	100	108	99	102	105	90	101	104	107	97	103														
Mas NL 871871330	Dt Natasja	Galaxy	Stol Joc	Gnat	83	+85	+27	50	89	+1373	-0.32	-0.13	+0.06	+26	+35	+69	+219	+23	-26	70	+66	102	98	101	101	102	98	97	83	102	105	106	99	104														
Alt US 70396874	Bush-Bros Altabgood	Roylane Socra R	Massey	Nat	83	+85	+2	61	85	+683	+0.02	+0.04	+0.02	+31	+28	+33	+190	+25	-9	78	+271	99	98	103	99	104	108	99	83	98	101	106	98	102														
Tot NL 920911677	Willem's-Hoeve W H Baily Che	Mcutechen	Altwood	Gint	78	+85	+0	21	86	+423	-0.30	-0.08	+0.06	+46	+7	+25	+133	+3	-1	71	+117	100	97	100	97	104	105	102	82	99	103	116	102	110														
Ves IT 019990773631	Royal Idevra Mulligan	Planet	O Man	Nat	90	+85	+10	415	95	+229	-0.22	-0.13	+0.04	-10	-4	+14	-33	+24	+2	82	+494	106	105	101	99	104	101	102	88	97	103	99	98	98														
AWE US 68767099	Morningview Marcelon Cri	Badger-Bluff Fa	Shottle	Int	84	+84	+12	21	91	+1162	-0.28	-0.29	+0.00	+21	+11	+53	+105	+11	-7	70	+239	103	102	103	97	100	100	89	100	104	98	99	99															
AWE UK 727942400111	Wilton Cruise	Altaiota	Planet	Nat	77	+84	-3	29	82	+434	-0.06	-0.07	+0.13	+13	+9	+32	+74	+0	-43	76	+82	103	104	101	101	99	99	102	71	101	105	105	101	104														
K&L FR 6413261080	Hendrix	Levi	Shottle	Gnat	80	+84	+11	27	88	+881	-0.46	-0.20	-0.05	-7	+11	+35	+41	+2	-22	73	+268	104	103	100	103	101	102	103	84	96	102	107	98	102														
K&L DK 04165404818	Vh Bynke	Bismark	Ramos	Gint	82	+84	+7	15	85	+244	-0.23	-0.07	+0.00	-11	+2	+11	-12	+0	+15	70	+330	102	105	105	100	103	103	102	79	94	98	102	100	99														
GGI NL 534704737	Vekis Philo	Super	Stol Joc	Nat	88	+83	-20	139	94	+1948	-0.92	-0.23	-0.11	-17	+43	+101	+171	-13	+2	82	+355	106	97	101	100	94	101	100	87	100	100	98	94	96														
K&L DK 000000253419	Vh Max	Mascol	O Man	Nat	83	+83	+18	25	89	+171	-0.02	+0.08	-0.01	+5	+13	+7	+66	+52	+7	77	+275	105	104	98	100	93	97	100	82	101	100	97	98	98														
ABS US 134438230	Ked Outside Jeeves-Et	Outside	Duster	Nat	98	+83	+4	2486	99	+389	-0.31	-0.25	-0.01	-12	-10	+17	-61	+5	+21	99	+693	104	105	99	91	104	98	100	99	100	99	99	100	99														
Alt NL 880372082	Southland Altadelcampo	Gold Chip	Man-O-Man	Int	76	+82	-4	21	91	+309	+0.30	-0.03	+0.00	+41	+8	+14	+123	-7	+14	65	+234	105	97	106	100	101	102	99	57	95	99	111	94	101														
Sem US 72860352	View-Home Utah	Dooman	Roylane Socra R	Nat	88	+82	+5	241	93	+742	-0.34	-0.09	+0.05	-1	+17	+39	+79	+2	+19	78	+395	101	104	103	103	103	100	97	89	99	99	105	94	99														
Gex US 70372014	Sully Hartford Swmn Myth	Snowman	Planet	Int	90	+81	-6	110	94	+2247	-0.79	-0.32	-0.01	-8	+43	+102	+224	-7	+24	82	+165	96	96	103	100	101	103	103	82	99	100	104	99	101														
Alt CA 11569683	Cedarwal Altaexchange	Mogul	Man-O-Man	Int	82	+81	-8	29	90	+1313	-0.48	-0.31	-0.01	+7	+14	+59	+90	-15	+20	64	+203	95	104	106	104	105	106	105	73	97	101	107	96	101														
CRV NL 523359223	Delta Bombay	Jardin	Shottle	Gnat	98</																																											

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVImelkdoel = 0,4*Inet +0,08*lvd +4,7*UGH +6,3*VRU +1,8*Uier +3,6*Beenwerk +1,8*GEB +2,7*KGH + 0,23*BVK

NVIdubbeldoel = 0,35*Inet +0,09*lvd +5,2*UGH +5,2*VRU +5,2*Uier +6*Beenwerk +2*GEB + 5,2* VLI

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Ki Stiernummer	Stiernaam	Erf-fac/Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt kgM	%V	%E	%L	kgV	kgE	KgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext				
Ai Bull number	Bull name	Her-fac Sire	MGS	S N	Rel NVI	+/-	daus	Rel kgM	%F	%P	%L	kgF	kgP	KgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T				
Melkdoel Zwart						pnt	Productie									€	€	Functioneel									Exterieur									
ABS	US 61980877	Coppertop Doberman	Shottle	Granger	Nat	98	+71	-7	3691	99	+537	+0.07	+0.04	+0.26	+29	+22	+49	+166	-2	+57	99	+136	104	97	100	101	104	96	101	99	94	93	102	93	95	
Alt	US 72013226	Syrzak Altabirch	Alttaok	Bookem	Int	78	+71	+2	18	89	+412	+0.04	-0.11	-0.01	+21	+4	+18	+66	+22	-3	66	+133	104	106	98	90	98	92	74	98	102	104	99	101		
Bov	US 72127270	Mr Alphen Dagon	Mogul	Ronelee Toyvstr	Nat	76	+71	-6	43	82	+477	-0.13	-0.18	+0.02	+8	+0	+24	+24	+7	-18	63	+47	98	105	97	98	104	105		88	102	103	115	105	112	
GGI	DK 03870002890	Lacomy P	Laron P	Jeeves	Gnat	85	+71	+10	50	92	+822	+0.41	+0.23	+0.08	-2	-10	-31	-55	+17	+1	77	+676	106	103	99	92	94	94	101	87	97	100	103	96	99	
Sem	CA 11720423	Brabantdale Receive	Let It Snow	Man-O-Man	Nat	73	+70	+14	36	80	+291	+0.41	+0.26	+0.23	+50	+34	+34	+255	+1	-8	59	+120	102	97	92	91	99	100		84	99	103	107	92	100	
Mas	DE 1603294735	Meccoy	Mcutechen	Atwood	Gint	82	+70	+0	38	88	+1450	-0.31	-0.28	-0.04	+30	+22	+62	+172	-11	+19	70	+42	100	98	103	98	101	101	97	82	94	96	115	95	103	
Kam	NL 612994980	Het Meer Sunny Dream	Sundance	Atwood	Gnat	90	+70	+20	354	95	+19	+0.43	+0.21	-0.05	+39	+19	-4	+159	+33	-43	81	+316	103	94	98	94	100	100	102	92	97	103	105	101	103	
ABS	US 57187010	Larcrest Conquest	Gerard	Ramos	Nat	89	+70	+4	225	92	+978	-0.25	-0.16	+0.04	+17	+18	+49	+124	+8	-79	82	+160	103	101	102	100	91	96	102	91	103	105	110	94	104	
Dek	FR 2215667193	Ganache	Altaiota	Planet	Gint	85	+70	-4	44	93	+715	-0.17	-0.11	+0.16	+14	+14	+48	+101	-16	-4	79	+27	100	103	102	101	100	102	99	81	102	103	103	101	103	
Sem	US 66382657	Monument Impression	Socrates	Potter	Nat	96	+70	+20	2503	99	+1009	-0.33	-0.33	+0.02	+10	-3	+48	+48	+13	-1	93	+609	105	95	105	93	106	101	101	99	104	103	105	97	103	
Mas	US 73276746	Sveen P	Long P	Epic	Gint	78	+70	+3	15	83	+670	-0.24	-0.28	+0.04	+6	-3	+34	+11	+0	-8	71	+313	101	102	97	90	105	108	104	78	100	103	113	99	107	
Sam	NL 718454131	Heuvel Cerny	Malki	Paramount	Nat	72	+69	n	76	80	+1643	-0.30	-0.17	-0.08	+38	+39	+67	+260	n	-45	67	-39	97	94	103	98	98	94	100	70	103	105	104	105	106	
Sem	US 3013924009	Progenesis Pianist	Enforcer	Shema Jeeves Ca	Nat	77	+69	+7	72	85	+1714	-0.67	-0.21	+0.02	-2	+37	+80	+180	-20	-42	64	+241	96	103	100	104	105	98	100	77	102	104	105	94	101	
Sem	US 73191154	Regancrest Milford-P	Style P	Snowman	Nat	80	+69	+27	63	88	+564	-0.09	-0.07	-0.04	+15	+13	+22	+91	-27	+28	69	+79	100	102	101	103	95	100	102	86	99	95	106	97	101	
Tot	FR 1445852638	Elioz Dkr	Windy Knoll Vic	Goldwyn	Nat	74	+69	+2	22	81	+1382	-0.64	-0.27	-0.09	-7	+20	+54	+84	+0	+31	70	+222	105	99	95	102	93	99	97	73	99	96	106	100	102	
Sem	US 3124671689	View-Home Albania	Defender	Mcutechen	Int	81	+69	+18	32	91	+934	-0.29	-0.38	-0.01	+11	-5	+42	+15	+20	-7	72	+261	100	101	104	100	107	107		85	99	98	113	101	107	
Kam	NL 519550898	Heuvel Suarez	O Man	Cello	Gnat	98	+69	+1	6023	99	+949	+0.55	+0.34	+0.03	+3	-6	-41	-31	+4	-20	99	+123	99	109	99	107	100	99	107	99	94	102	102	101	100	
OBS	DE 0355400190	Lexus	Lexor	Super	Gint	2n	80	+68	+8	24	87	+17	+0.40	+0.16	-0.03	+36	+15	-2	+137	+7	+17	71	-191	100	106	103	104	100	102	99	80	94	97	101	95	96
CRV	NL 968458244	Apina Stig	Stellando Rf	Gofast Cd	Gnat	2n	98	+68	+2	2673	99	+240	+0.27	+0.12	-0.13	+13	+2	-22	+29	+3	+8	94	+42	101	104	100	102	102	102	106	99	98	100	95	104	99
Sam	NL 330874052	Skalsumer Jorryn	Jocko	Celsius	Nat	98	+67	-5	6642	99	+741	-0.18	+0.01	-0.10	+14	+27	+24	+147	+2	+45	99	+76	91	102	103	103	107	101	104	99	95	94	95	104	97	
Tot	DE 0354891684	Select	Snowman	Planet	Gnat	91	+67	-4	178	96	+509	+0.00	+0.04	+0.06	+22	+21	+29	+141	+6	-1	84	+188	103	99	94	97	99	98	99	90	99	102	101	100	101	
Gex	US 69990052	De-Su Freddie Galaxy	Badger-Bluff Fa	Planet	Nat	93	+67	-1	345	97	+654	-0.07	-0.09	+0.02	+21	+14	+32	+111	-2	-28	88	+109	101	98	104	98	106	99	99	94	100	106	107	103	106	
Sam	NL 384379291	Ponsstar Shogun	O Man	Jesther	Nat	98	+67	-1	9920	99	+609	-0.26	-0.15	+0.10	+1	+7	+37	+42	+0	-31	99	+539	107	102	98	106	105	97	101	99	104	103	95	94	96	
Sem	US 70358061	Sandy-Valley Saloon	Altaiota	Planet	Nat	88	+66	-8	199	94	+1683	-0.25	-0.14	-0.03	+45	+44	+74	+297	-5	-24	81	-191	94	101	103	97	100	105	97	89	99	104	104	96	100	
Alt	US 57187059	Larcrest Altasnowcrest	Snowman	Shottle	Nat	82	+66	+1	39	83	+840	-0.03	-0.11	+0.07	+33	+19	+45	+161	-5	-28	81	+151	103	101	101	98	101	98	95	84	101	104	105	94	100	
	UK 388380700235	Merandy	Meridian	Man-O-Man	Gint	85	+66	-5	48	90	+1517	-0.50	-0.27	+0.08	+13	+25	+78	+153	-4	-8	75	+160	99	98	101	99	100	105	102	89	100	100	104	99	102	
OBS	DE 0355203318	Platin	Plan Z	Man-O-Man	Gint	80	+66	+6	18	87	+740	-0.19	-0.03	+0.09	+13	+23	+42	+134	+2	+0	71	+285	99	98	103	97	103	106	102	82	95	99	104	97	99	
Sam	NL 394346135	Zaemslach Juno	O Man	Addison	Nat	97	+66	+4	2517	99	+276	+0.18	+0.07	+0.17	+28	+16	+28	+133	-2	-10	96	+295	100	102	98	102	94	95	103	97	102	103	96	95	96	
GGI	UK 912004240631	Key	Super	Buckeye	Nat	85	+66	-1	34	88	+473	-0.12	-0.08	+0.06	+9	+9	+27	+64	+0	-12	73	+22	102	104	102	97	99	102	101	83	99	101	106	97	101	
Kam	NL 869267774	Big Winnetoe	Windbrook	Jorryn	Gnat	94	+66	+0	452	98	+836	+0.77	+0.25	+0.05	+26	-9	-34	+8	+10	-10	90	-6	103	101	105	101	98	91	104	92	99	102	108	103	106	
GGI	DE 0356552537	Faun	Fanatic	Mascol	Gnat	85	+66	+1	172	90	-9	-0.12	-0.04	+0.01	-10	-3	+1	-33	+16	-1	74	+238	103	102	104	102	100	105	103	89	103	103	104	103	105	
K&L	DK 03013602027	Dansire Shottle Sol	Shottle	T Funkis	Nat	98	+66	+1	2825	99	+441	+0.23	+0.08	+0.03	+1	-9	-18	-40	+5	-16	97	+326	103	105	104	102	104	98	104	99	97	99	96	101	97	
K&L	SE 0106527083	Vh Ersmark Sterngold Sprite	Stemgold	Rakuuna	Gnat	87	+66	-5	40	91	+299	-0.12	-0.02	+0.10	-23	-12	-5	-99	-12	-1	74	+362	105	104	101	104	101	102	102	85	90	94	105	104	101	
CRV	NL 531840038	Delta Vitality	Gibor	Ramos	Gnat	98	+65	+2	7417	99	+617	-0.17	-0.04	-0.03	+10	+18	+25	+102	+0	+2	96	+106	102	100	102	104	99	100	99	99	99	103	101	101	101	
Sem	US 142289925	Leadervin Muscadet	Mogul	Jeeves	Nat	86	+65	-38	345	93	+349	-0.04	-0.01	-0.04	+11																					

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVIImekdoel = 0,4*Inet +0,08*Ivd +4,7*UGH +6,3*VRU +1,8*Uier +3,6*Beenwerk +1,8*GEB +2,7*KGH + 0,23*BVK

NVIDubbeldoel = 0,35*Inet +0,09*Ivd +5,2*UGH +5,2*VRU +5,2*Uier +6*Beenwerk +2*GEB + 5,2* VLI

Perspublicatie stierindexen Zwartbont

December 2020

Ki	Stiernummer	Stiernaam	Erf-fact Vader	M-vader	B N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	KgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext						
	Ai	Bull number	Bull name	Her-fact Sire	MGS	S N	Rel NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	KgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Tem	MS	CLW	Rel	F	DS	U	F&L	T					
Mekdoel Zwart							pnt		Productie										€		Functioneel										Exterieur									
Alt	US	61898306	Regancrest Altaia	O Man	Ito	Nat	98	+57 +1	13905	99	+663	-0.03	-0.08	+0.20	+25	+15	+49	+129	+0	-37	99	-171	98	105	104	101	99	104	100	99	104	105	103	98	102	102				
Sem	CA	11278908	JK Eder-I Control	Snowman	Bolton	Nat	94	+57 -4	1164	98	+786	-0.34	-0.16	-0.06	+1	+12	+30	+60	-40	-42	89	+264	103	99	102	93	101	95	101	97	105	103	108	98	105	105				
Sem	CA	104854291	Gen-L-Beg Brawler	Altabaxter	Shottle	Nat	98	+57 -9	7090	99	+186	-0.08	+0.02	+0.05	+1	+8	+13	+39	+3	-1	99	+316	100	103	104	96	106	101	95	99	103	102	106	98	103	103				
Sam	NL	887310382	Topspeed Samoa	RF Maik	Stadel	Nat	88	+57 +36	230	94	-195	+0.22	+0.12	+0.01	+11	+4	-8	+37	+18	+1	80	+483	103	98	98	101	100	96	102	84	97	100	96	102	98	102				
Toe	NL	722821589	Ilbc Snowman Justin	Snowman	Shottle	Nat	84	+56 -5	93	91	+1268	-0.27	-0.28	-0.01	+26	+16	+57	+137	-2	-13	76	+408	104	96	90	96	100	96	99	87	103	103	101	99	101	101				
WWS	US	68988032	Ladys-Manor Rd Grafeeti	CD Badger-Bluff Fa	Goldwyn	Int	90	+55 +5	53	93	+244	+0.27	-0.03	+0.00	+35	+6	+11	+101	+4	+22	83	-53	99	98	103	98	101	107	102	92	100	101	107	102	105	105				
WWS	NL	570437848	Texel Beauty Cosmo	Man-O-Man	Shottle	Nat	79	+55 +14	26	80	+195	+0.14	-0.03	+0.07	+21	+4	+15	+65	+2	-8	79	+79	107	104	101	97	104	95	97	83	98	103	103	91	97	97				
GGI	NL	425598456	Leko	Laudan	Jocko	Nat	97	+55 +2	2899	99	+383	-0.45	-0.12	-0.08	-25	+2	+10	-41	+7	-9	96	+509	102	99	105	100	98	100	105	98	97	100	96	104	99	99				
SZO	IT	018990120740	Cabri End-Stor.Valter	RF O-Man Story	Talent	Int	73	+54 -4	20	86	+811	+0.17	+0.01	+0.00	+51	+29	+37	+237	+2	+37	62	+94	100	97	98	97	101	102	67	94	100	93	94	91	91					
AWE	FR	2216892431	Hurion Isy	Sudan	Planet	Gnat	85	+54 -10	52	89	+102	+0.28	-0.15	-0.07	+29	+17	+11	+134	-13	-54	73	+115	103	97	101	98	104	102	101	86	105	105	98	102	102	102				
Alt	DE	0535571756	Alta Ceasar	Planet	Shottle	Nat	98	+54 -8	6358	99	+261	+0.14	+0.11	+0.00	+24	+19	+12	+132	+8	-69	97	-31	101	105	99	97	106	98	90	99	103	103	103	102	104	104				
Tot	US	3133064274	Mr Puma	Icane	Balisto	Gint Gn	74	+54 -82	19	82	-227	+0.19	+0.14	+0.09	+7	+4	-3	+30	-181	+19	64	+206	103	101	101	101	104	105	99	79	97	101	111	95	102	102				
CRV	NL	717343643	Elagaster Packman	Bogart	Jordan	Gnat	98	+53 +2	5886	99	-311	+0.46	+0.29	+0.03	+26	+14	-12	+108	+0	-36	99	-187	103	108	106	104	101	101	101	99	109	105	95	90	96	96				
WWS	US	69502427	Kerndway Eraser P	PO Eamhardt P	Observer	Nat	79	+53 +10	38	87	+265	+0.01	+0.02	+0.05	+12	+11	+17	+75	+11	-25	72	+145	95	107	97	99	107	105	102	80	102	105	106	96	102	102				
Kam	NL	660281847	Poppe Ferdi	Boss	Danillo	Gnat	92	+53 +3	848	96	+83	-0.05	+0.14	+0.07	-1	+15	+10	+62	-36	-28	84	-35	100	102	101	98	94	97	100	95	105	102	105	104	107	107				
WWS	US	3013654627	Bacon-Hill Pety Modesty	Pety	Supersire	Nat	84	+53 -19	191	91	-161	+0.25	-0.01	+0.08	-13	-5	+0	+11	-19	-72	74	+11	97	103	108	102	101	109	99	91	88	92	110	99	100	100				
Xs	FI	0072887028	Mandyan Rakuuna	T Lambada	Goldfinger	Int	89	+53 +5	44	94	+186	-0.14	-0.08	-0.01	-5	-1	+8	-12	+6	+55	82	+346	104	103	100	107	103	103	96	85	91	93	101	97	95	95				
SZO	IT	033990183210	Castelbosco P Harcos	Planet	Shottle	Int	83	+53 +9	63	90	+481	-0.27	-0.22	-0.01	-5	+4	+21	-21	+23	-13	74	+531	104	102	99	99	106	102	97	75	96	104	104	98	100	100				
GGI	DE	0538431065	Ohio P	PO Ohare-P	Epic	Gint	80	+51 +7	19	85	+1463	-0.47	-0.35	-0.04	+14	+15	+63	+110	-2	+13	68	+275	96	99	102	101	101	102	102	81	102	102	103	98	101	101				
Alt	US	66558709	Stone-Rail Altaelvis	Alta Otto	Shottle	Nat	79	+50 +10	28	81	+897	-0.25	-0.15	+0.01	+14	+17	+42	+112	+0	-35	80	+296	107	96	104	101	104	94	98	79	107	104	101	94	100	100				
Sem	CA	11113974	Misty Springs Supersonic	Super	Shottle	Nat	88	+50 +11	170	95	+475	-0.03	-0.10	-0.11	+17	+7	+11	+68	-3	+7	81	+51	101	103	104	99	102	102	101	83	98	99	105	93	98	98				
Sem	US	62496434	Regan-Alb Dragon	Goldwyn	O Man	Int	89	+50 -4	54	94	+179	+0.00	+0.03	-0.00	-8	+9	-8	+56	+0	-13	84	+66	101	101	99	102	90	100	102	86	97	103	106	100	103	103				
ABS	US	71592921	Ladys-Manor Graf La-Bron	Grafeti	Super	Nat	81	+50 -52	38	82	+335	+0.15	-0.18	-0.07	+28	-5	+9	+41	-122	+11	78	+222	102	101	102	93	101	108	101	86	100	100	103	96	99	99				
ABS	US	137804641	Cordes-Maid Stonewall	Shottle	Durham	Nat	98	+50 +15	9401	99	-248	+0.05	+0.04	+0.13	-6	-5	+0	-33	-2	-24	99	+27	103	108	102	99	105	92	98	99	101	104	102	100	102	102				
Kam	NL	469960884	De Bieuw Kindness	Shottle	Emerson	Nat	97	+49 -5	2282	99	+275	+0.15	-0.14	+0.05	+25	-3	+17	+45	+0	+30	97	+416	104	94	96	99	99	97	105	99	100	101	104	99	102	102				
CRV	NL	523913904	Newhouse Banker	Goldwyn	Mascol	Gnat	97	+49 +9	6516	99	-83	-0.04	-0.02	-0.01	-7	-5	-5	-37	+0	+57	99	+110	103	103	99	105	95	94	102	99	101	103	105	99	103	103				
Kam	NL	765126845	Giessen Charityman	Snowman	Goldwyn	Gnat	97	+48 +4	1587	99	+1003	-0.22	-0.26	+0.09	+21	+9	+55	+98	-6	+34	95	+110	104	94	99	98	97	99	98	99	101	103	114	98	107	107				
CRV	NL	526186039	Delta Emerald	Goldwyn	O Man	Gnat	98	+46 +1	7903	99	+440	-0.23	+0.00	+0.04	-3	+15	+24	+62	+0	+44	99	-53	104	101	104	103	100	102	101	99	103	104	105	92	100	100				
Sam	NL	921223890	Vero Ganador	Goliath	Planet	Nat	90	+46 -14	221	96	+353	-0.32	-0.05	+0.09	-14	+8	+24	+11	-22	-11	85	+263	105	102	104	99	102	101	100	86	96	103	103	93	97	97	97			
WWS	US	140145553	Mr Chassity Gold Chip	Goldwyn	Shottle	Nat	96	+46 -6	711	99	+286	-0.24	-0.40	-0.04	-10	-27	+9	-129	+4	-21	94	+366	108	99	107	103	106	100	100	98	102	103	114	101	109	109				
CRV	NL	466101738	Slothboom's Pilot	Mascol	Jocko	Gnat	98	+45 +3	15555	99	+0	-0.05	-0.01	-0.05	-4	-1	-4	-14	+2	-19	99	+309	102	101	101	101	95	103	100	99	104	101	99	104	103	103				
CRV	NL	696227132	Delta Bonaparte	Bonanza	Shottle	Gnat	95	+44 -11	2085	98	-34	+0.32	+0.16	-0.16	+27	+13	-16	+105	+3	-63	91	-185	103	97	98	94	99	95	104	99	101	105	106	105	107	107				
Sam	NL	762070183	Big Clyde	Big Winner	Jornyn	Nat	93	+44 -12	699	97	-1102	+0.63	+0.19	-0.24	+2	-24	-69	-115	-3	+0	86	+148	99	106	105	98	101	94	106	92	94	99	99	106	101	101				
CRV	NL	524213982	Newhouse Gofast	CD Goldwyn	O Man	Gnat	98	+42 +0																																

Inet = 0,3*kg lactose + 2,1*kg vet + 4,1*kg eiwit

NVImelkdoel = 0,4*Inet + 0,08*lvd + 4,7*UGH + 6,3*VRU + 1,8*Uier + 3,6*Beenwerk + 1,8*GEB + 2,7*KGH + 0,23*BVK

NVIdubbeldoel = 0,35*Inet + 0,09*lvd + 5,2*UGH + 5,2*VRU + 5,2*Uier + 6*Beenwerk + 2*GEB + 5,2* VLI

Perspublicatie stierindexen Zwartbont

December 2020

Ki Stiernummer	Stiernaam	Erf-fact Vader	M-vader	B N	N	Bt NVI	+/-	dtrs	Bt	kgM	%V	%E	%L	kgV	kgE	kgL	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext				
Ai Bull number	Bull name	Her-fac Sire	MGS	S	N	Rel	NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	kgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Temj	MS	CLW	Rel	F	DS	U	F&L	T			
Melkdoel Zwart						Productie													€		Functioneel													Exterieur				
CRV NL 539258462	Delta Edison		Peinzer Boy	Paramount	Gnat	98	+22	+1	2594	99	-649	-0.40	-0.05	+0.13	-60	-27	-19	-242	+0	+27	97	+496	103	106	101	95	102	106	99	99	96	97	108	102	104			
CRV NL 497081841	Skalsumer Blitz		Paramount	O Man	Gnat	98	+21	+0	5227	99	+1582	-0.34	-0.11	+0.08	+32	+44	+81	+272	+2	-28	97	+18	104	88	94	101	103	99	93	99	102	101	96	103	100			
Sam NL 899849362	Murphy		Lonar	Shogun Ps	Nat	97	+21	+12	2056	99	-426	-0.14	+0.07	-0.09	-30	-9	-27	-108	+7	+39	95	+315	102	102	102	104	102	102	107	97	92	96	98	97	94			
Kam NL 878742754	Mars Bodyguard	RF	Jerudo	Shottle	Gnat	96	+20	+0	903	99	-96	-0.03	+0.11	+0.02	-7	+6	-3	+9	-3	+19	93	+96	104	99	100	97	105	101	101	94	95	96	100	97	96			
Sam NL 379401837	Weggelhorster Santana		Zidane	Gentry	Nat	98	+20	+0	5305	99	-158	-0.21	+0.02	-0.12	-25	-4	-18	-74	+0	+27	99	+41	102	103	98	99	95	93	104	99	94	95	102	102	100			
K&L DK 000000253208	Vh Strong		Stol Joe	O Man	Nat	97	+19	+7	2193	99	-211	+0.08	+0.22	+0.04	-2	+12	-6	+43	+16	-36	94	+56	104	100	100	101	106	99	101	99	107	102	97	97	99			
CRV NL 227347061	Hidden Future		Ronald	Celsius	Gnat	98	+18	+3	21369	99	-383	+0.12	+0.07	+0.03	-6	-7	-15	-46	+0	+42	99	-41	106	101	102	98	89	93	99	99	93	94	93	102	94			
Kam NL 897770440	Koepon Wellness		Fibrax	Mascol	Gnat	97	+16	-6	1591	99	-531	+0.45	+0.23	-0.13	+15	+1	-35	+25	+2	+17	95	-151	99	103	97	102	99	100	100	95	95	99	101	101	99			
Kam NL 429759583	Big Winner		Win 395	Lucky Leo	Gnat	98	+16	-3	27962	99	-452	+0.38	+0.18	-0.22	+13	-1	-39	+12	+0	+15	99	+341	94	103	97	99	99	101	101	99	95	97	98	99	96			
CRV NL 970171942	Ralma O-Man CF Cricket-Et	BY	O Man	Durham	Gnat	98	+16	+3	39300	99	+163	-0.37	-0.07	+0.06	-26	-1	+13	-55	+0	-92	99	+22	105	106	99	106	102	101	98	99	105	103	102	100	103			
Ves NL 746035111	Farmers Wish Wag, Madiba		D Mason	Active	Nat	92	+13	+13	523	97	-470	+0.55	+0.15	-0.02	+26	-4	-23	+31	+8	+45	86	+182	99	99	102	105	103	107	97	90	96	96	99	98	97			
Sam NL 927185899	Big Sentaro		Shogun Ps	Jorryn	Nat	94	+13	-8	555	98	-462	+0.07	+0.08	-0.01	-14	-9	-22	-73	+6	-13	89	+91	105	103	101	101	103	97	101	91	100	100	103	96	99			
ABS UK 949241220853	Ballycairn Oman Pello		O Man	Goldwyn	Nat	98	+11	-4	2978	99	+1021	-0.19	-0.12	-0.03	+25	+24	+44	+164	-8	-46	96	+61	98	101	101	107	98	102	101	99	103	106	94	89	93			
Ves NL 543415590	Oelhorst Mick Aluminium		Prince	Active	Nat	84	+10	-10	106	92	-714	+0.13	+0.04	+0.07	-20	-22	-27	-140	+5	+34	77	+461	99	101	99	101	102	99	100	75	94	96	104	104	102			
CRV US 3000540481	Cookiecutter Mom Hunter		Man-O-Man	Shottle	Gnat	98	+9	-5	2512	99	+557	-0.12	-0.03	+0.10	+12	+17	+35	+105	-3	-49	97	-99	96	102	100	100	107	104	100	99	102	105	102	97	101			
Gex US 138851507	Wa-Del Surefire		Ramos	O Man	Nat	97	+9	-12	1546	99	+883	-0.46	-0.22	-0.08	-7	+9	+33	+32	-7	-22	94	+124	103	98	102	97	103	101	101	97	101	104	104	99	102			
Sem NL 970163778	Braedale Goldwyn	CD	James	Storm	Nat	98	+9	+1	2661	99	-173	+0.17	-0.01	-0.02	+7	-7	-10	-17	-4	+40	99	-127	103	101	102	101	96	102	98	99	96	99	109	95	101			
Ves IT 020990123734	All Ven Torrer		O Man	Boss Iron	Nat	97	+9	+0	2516	99	-282	+0.01	+0.11	+0.00	-11	+0	-13	-27	+7	-76	97	+450	104	100	103	102	90	100	102	99	105	105	98	93	97			
Ves IT 024990274239	Campogallo Zamagni		Super	Active	Nat	90	+8	+3	850	93	+657	-0.03	-0.05	+0.03	+25	+18	+33	+136	+40	-13	82	+78	99	95	105	98	94	101	99	94	101	100	107	91	99			
Alt NL 276999486	Barnkamper Cassanova		Addison	Labelle	Nat	97	+8	+0	1684	99	+163	-0.12	+0.08	+0.04	-4	+13	+11	+48	+0	+23	97	+7	98	102	102	101	98	99	106	97	98	96	92	93	91			
GGL DE 0349789696	Lonar		Laudan	Design	Nat	98	+8	+8	2398	99	-102	-0.12	-0.06	-0.06	-15	-9	-10	-71	+0	+51	97	+286	104	103	97	99	92	103	100	99	91	91	94	97	93	91		
CRV NL 970118312	Art-Acres Win 395		Winchester	Star Patron	Gnat	98	+7	+1	12474	99	+1195	-0.33	-0.25	-0.20	+18	+16	+34	+114	+0	-40	99	-34	92	101	104	104	103	99	99	99	97	101	92	105	98			
WWS US 61083609	Lirr Drew Dempsey	CD	Goldwyn	Derry	Nat	97	+7	+2	1528	99	-330	+0.18	+0.06	-0.08	+1	-6	-22	-29	+13	-18	95	-101	106	102	99	98	96	100	95	99	104	102	107	98	104			
Ves FR 4952815479	O-Man End-Story		Jocko	Gnat	97	+6	+2	1645	99	+1023	-0.27	-0.14	-0.01	+17	+22	+46	+140	+4	-26	96	-159	97	101	100	96	101	97	102	99	102	103	98	93	96				
CRV NL 294753949	Delta Linfield		Addison	Branco	Gnat	98	+6	-6	15845	99	-70	+0.01	+0.00	+0.14	-2	-2	+9	-10	+0	+35	99	-160	100	99	104	98	94	101	103	99	103	102	95	104	101			
CRV NL 525056357	Ludiek Bluejay		Bertil	O Man	Gnat	98	+5	+3	4388	99	+302	+0.05	+0.15	-0.06	+17	+24	+8	+137	+0	-1	99	-75	106	93	97	95	98	105	99	99	96	98	103	93	96			
CRV NL 970170196	Welcome Oman Palmer Cri-Et		O Man	Aaron	Nat	98	+5	-5	2767	99	+349	-0.17	+0.07	-0.02	-1	+19	+14	+80	+0	-7	99	-6	100	100	92	103	93	98	98	99	97	103	101	98	99			
Ves IT 019990328894	Pirole Goldw. Wyman		Goldwyn	O Man	Nat	98	+4	+6	4959	99	+306	+0.13	+0.14	-0.03	+25	+23	+11	+150	+0	-17	99	-133	100	99	92	107	94	90	101	99	102	101	103	92	98			
Sam NL 641090301	Grashoek Moneymaker	RF	Maik	Albionix	Nat	93	+4	+0	416	97	+159	+0.20	+0.04	-0.03	+25	+9	+5	+91	+11	+22	88	-36	95	102	96	98	102	95	98	90	95	99	98	98	96			
Kam NL 768733756	Danshot		Danillo	Shottle	Gnat	89	+4	-18	264	95	+68	-0.01	-0.02	+0.09	+2	+1	+11	+12	-33	-13	81	-124	98	99	97	97	102	99	101	87	102	104	109	104	108			
CRV NL 372317917	Delta Barclay		Lord Bailey	Webster	Gnat	98	+3	+1	1690	99	+105	+0.12	+0.02	+0.01	+15	+5	+6	+54	+0	+54	97	-177	102	97	104	103	98	95	96	99	96	94	96	101	96			
Dek NL 890157800	Veenhuizer Gesnow	RF	Snowman	Classic	Gnat	90	+3	+20	108	95	+104	+0.13	+0.08	+0.13	+7	+3	+7	+29	+6	-30	84	+47	105	98	99	99	100	91	98	91	101	100	103	96	100			
Kam NL 489715994	Montreux 50		Shottle	Archibald	Gnat	97	+1	+5	1964	99	+538	-0.16	-0.09	-0.09	+8	+10	+16	+63	-4	-13	95	-6	98	99	98	99	110	104	102	97	98	100	94	101	97			
ABS US 135695137	Wa-Del Hayden		O Man	Mito	Nat	98	+0	+0	1842	99	+505	-0.20	-0.29	+0.08	+3	-10	+31	-25	+3	-24	97	+216	107	98	92	99	96	93	97	99	98	103	102	99	100			
Alt US 71441918	Zahbulls Alta Istclass		Numero Uno	Dorey	Nat	88	+0	-11	161	94	-420	+0.44	-0.02	+0.13	+19	-16	-8	-28	-6	+23	80	+6	102	104	101	99												