

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

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	Gab	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								
Melkdoel Zwart											Productie											€		€		Functioneel										Exterieur									
K&L	DK 00000257379	Vh Bube Bernell		Bube	Vh Salomon	Gnat		92	+321	-7	261	97	+1281	-0.15	+0.02	+0.00	+39	+47	+59	+292	-17	+33	84	+540	107	107	107	102	103	98	111	94	100	99	105	107	106	100	100						
Alt	US 72615089	Bomaz Altanabco		Donatello	Rmrv Armitage	Nat		87	+307	+17	102	93	+1629	-0.03	-0.04	+0.01	+66	+53	+75	+378	+16	+15	75	+506	107	109	104	97	99	101	107	83	97	101	106	96	100	100	100						
Alt	US 73953444	Bomaz Altatopshot		Supershot	Altatembassy	Nat		87	+302	+18	264	92	+1664	+0.18	+0.12	+0.04	+89	+71	+80	+502	+34	+14	76	+607	103	101	109	101	104	97	108	89	101	105	101	97	100	100	100						
CRV	NL 729539557	Welder Empire		Bravo	G-Force	Gnat		93	+299	-3	3670	95	+487	+0.42	+0.19	+0.01	+59	+34	+22	+270	-20	+45	85	+640	106	104	106	108	97	87	100	99	95	93	103	109	104	100	100						
CRV	NL 895652300	Capnation Benello		Bernell	Balisto	Gnat Gn		78	+298	+20	116	87	+969	+0.03	+0.10	+0.07	+44	+44	+51	+288	-7	+22	69	+649	109	105	103	103	104	98	108	85	98	98	107	105	105	105	105						
WVWS	US 70071611	S-S-I Mogul Reflector		Mogul	Super	Nat		93	+298	+5	1096	97	+1376	-0.26	+0.01	+0.01	+32	+49	+64	+287	+5	+19	87	+842	104	104	107	97	110	108	107	97	102	101	111	107	110	100	100						
CRV	NL 671125486	Delta Reloader		Finder	G-Force	Gnat Gn		81	+296	+9	113	88	+971	-0.00	-0.06	+0.06	+41	+28	+50	+216	-74	+31	71	+920	106	105	108	108	104	102	96	107	88	98	101	108	106	107	107						
CRV	NL 738287780	Welder Esperanto		Final	G-Force	Gnat		93	+291	+17	3134	95	+1492	-0.19	-0.12	-0.03	+44	+40	+65	+276	+23	+39	86	+781	103	101	103	104	101	102	113	99	97	100	109	109	105	105	105						
Sam	NL 755898903	Cogent Supershot		Supersire	Super	Nat		96	+288	+21	506	99	+2028	-0.46	-0.12	+0.12	+36	+57	+106	+341	+7	+7	93	+703	104	106	106	101	106	95	107	99	105	106	104	100	105	105	105						
ABS	US 3130010426	De-Su 13181 Quantum	o	Supershot	Mogul	Nat		73	+287	+22	28	81	+1518	-0.13	+0.14	+0.08	+51	+67	+78	+405	+27	-33	67	+678	107	107	106	100	108	97	100	78	104	106	109	98	106	106	106						
CRV	NL 662437877	Delta Barrage		Final	Maik	Gnat		86	+286	+6	399	92	+1711	-0.18	-0.14	-0.06	+45	+45	+72	+320	+16	-1	78	+592	109	103	106	103	101	87	105	94	99	102	100	107	104	104	104						
CRV	US 313620974	Butterview Gold Medal		Supershot	Halogen	Gnat		82	+282	+6	184	90	+1848	-0.19	-0.04	+0.06	+58	+60	+83	+392	+16	-8	78	+425	103	105	110	104	100	104	104	90	106	102	106	102	106	102	106						
ABS	DE 0838920293	Bg Charley		Supershot	Mogul	Gnat		89	+282	+16	111	94	+1696	-0.18	-0.08	-0.06	+48	+27	+79	+317	+26	+58	78	+720	107	104	110	108	104	98	103	91	94	97	103	98	98	98							
GCI	DK 05609302452	Bowum		Balisto	Epic	Gnat		89	+280	+21	437	94	+1558	-0.23	-0.16	+0.01	+42	+71	+70	+400	+47	+9	80	+826	105	98	104	103	105	101	104	93	103	104	111	101	108	98	98						
GCI	DE 0666519827	Barclay		Balisto	Epic	Gnat		92	+277	-7	596	96	+990	-0.48	-0.42	-0.07	+89	+76	+38	+510	+7	+36	84	+824	97	99	107	103	107	101	103	95	97	99	104	102	102	102							
K&L	DK 01054403121	Vh Bosman Bahrain		Vh Bosman	Vh Service Ser	Gint Gn		76	+277	-74	98	85	+1413	-0.21	-0.17	-0.11	+81	+67	+53	+461	+36	+38	65	+428	103	103	102	103	101	100	100	93	91	98	103	102	100	100	100						
K&L	US 69763386	View-Home Day Missouri		Day	Roylane Socra	Nat		91	+276	+27	315	97	+2699	-0.59	-0.25	-0.05	+46	+65	+118	+399	+37	+53	85	+522	104	102	106	101	98	98	105	94	89	95	108	98	99	99	99						
Alt	US 3129037884	Mt Salvatore	IF	Supershot	Dymenholm S	Nat		85	+276	+42	159	92	+2216	-0.38	-0.31	+0.12	+52	+43	+115	+320	+36	-20	75	+622	109	103	101	106	102	94	106	91	103	107	111	101	108	107	107						
CRV	NL 717948477	Delta Sumit P	NO	Finder	Atlantic	Gnat Gn		80	+276	+78	70	88	+67	-0.51	-0.21	-0.03	+48	+21	+8	+119	-28	-32	70	+898	106	108	106	106	104	97	111	87	100	102	104	108	107	107	107						
CRV	NL 921971114	Bouw Finner		Balisto	Epic	Gnat		97	+275	+44	5744	99	+14	+0.47	+0.16	+0.08	+42	+15	+8	+182	+8	-2	93	+1039	106	105	109	104	102	99	106	99	100	103	106	108	108	108							
Sam	NL 8723390502	Vdr Slash		Balu	Malki	Gnat Gn		81	+273	+79	248	88	+1275	+0.11	+0.17	-0.14	+65	+62	+44	+404	+102	+11	71	+600	106	100	101	105	98	95	108	88	99	104	101	102	102	102							
CRV	DK 02371102785	Travald Gede		Supershot	Massay	Gnat		87	+273	+43	105	93	+1249	-0.27	-0.05	-0.01	+31	+38	+103	+238	+22	+40	77	+698	103	104	106	102	108	94	107	91	95	103	105	102	102	102							
Adv	DE 0666847161	Grade Bonka		Battery	Big Point	Gnat Gn		75	+271	-27	70	84	+57	+0.52	-0.26	-0.04	+49	+25	-1	+205	-82	+52	66	+629	107	106	104	101	103	92	106	82	95	98	108	105	105	105							
Sem	CA 12264628	Boldi V Gymnast		Doorsopen	Jabir	Nat		82	+270	-3	267	89	+2095	-0.14	-0.08	-0.02	+73	+64	+98	+445	-7	-26	73	+595	108	96	106	95	104	95	102	90	103	104	114	99	108	108	108						
Sem	US 3123607092	Proveness Proud		Deductive	Shema Jeeves	Nat		82	+264	+34	117	90	+2278	-0.42	-0.25	-0.05	+50	+52	+110	+351	+24	-2	72	+739	106	103	101	101	100	100	103	84	100	103	108	98	104	104	104						
Kam	NL 935351749	Jennekus Baryton		Barclay	Packman	Gnat Gn		81	+260	+7	229	89	+640	+0.77	+0.41	-0.18	+100	+61	+12	+464	-6	+24	71	+339	97	103	104	100	108	98	109	85	103	98	95	104	100	100	100						
Alt	US 3129037603	Endco Superhero		Supershot	Numero Uno	Nat		83	+260	+6	116	91	+1355	-0.08	-0.01	+0.02	+49	+46	+64	+311	-30	-17	74	+561	103	105	106	101	104	105	108	88	105	106	109	100	107	107	107						
Tor	NL 678889750	Hul-Stein Casey		Supershot	Mogul	Nat		74	+259	+6	52	84	+1496	-0.03	-0.02	-0.05	+60	+54	+74	+370	+77	-20	86	+448	103	108	104	101	104	96	108	70	98	104	102	102	102	102							
Sem	US 72531549	Zahbus Aviator-Et		Supersire	Badger-Bluff Fa	Nat		86	+258	+33	277	93	+1180	+0.14	+0.01	+0.06	+64	+42	+60	+325	+42	-19	77	+395	106	106	109	100	110	97	101	88	99	104	107	101	105	105							
Alt	US 3126779968	Peak Altatuscan		Davinci	Numero Uno	Nat		86	+257	+7	159	93	+1619	+0.21	+0.05	+0.00	+91	+62	+74	+468	+77	-19	76	+552	106	98	99	97	101	102	102	76	99	100	111	95	103	103	103						
CRV	NL 843890655	Delta Lendor		Vh Stu	Bube	Gnat		85	+257	-39	1689	89	+526	+0.32	+0.22	-0.02	+52	+38	+22	+276	+46	-20	76	+640	106	108	100	97	105	98	103	98	101	94	108	101	103	103							
ABS	US 3134408139	De-Su 13530 Seville		Supershot	Montross	Nat		81	+256	-7	172	87	+1079	+0.12	-0.08	-0.08	+58	+45	+57	+323	-26	+13	71	+444	103	107	109	105	106	99	103	83	98	103	103	100	101	101							
Alt	US 69829746	Lone-Oak Acres Altarabo-Et		Mogul	Observer	Nat		97	+256	+0	2688	99	+1555	-0.03	-0.16	+0.13	+63	+37	+85	+310	+3	+42	83	+489	107	102	103	102	107	104	100	99	101	102	110	104	108	108							
CRV	NL 679611154	Delta Beatie		Commander	Fever	Gnat		90	+256	-4	352	95	+530	+0.42	+0.00	+0.17	+62	+18	+40	+216	-7	+10	81	+467	110	101	102	103	107	101	111	94	99	99	110	107	109	109							
G&I	IT 028990352947	Simox		Supershot	Let It Snow	Gint																																							

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

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				
Meikdool Zwart										Productie										Functioneel										Exterieur									
CRV NL 642172631	Delta Revisor P	PO	Finder	Sundance	Gnat Gn	86	+235	+28	664	91	+331	+0,56	+0,30	+0,17	+65	+39	+31	+306	+15	-28	77	+497	101	105	104	95	105	100	106	94	104	105	107	102	107	109			
CRV NL 661726969	Double W Rotary		Galore	Snowfever Cd	Gnat	87	+235	-19	713	92	+1400	-0,20	-0,05	+0,15	+39	+44	+79	+286	-29	-10	80	+728	104	100	97	101	101	102	105	96	101	104	109	106	109	106	109		
STG US 3010353416	Edg Rubi-Asp	RF	Rubicon	Mccutchen	Nat	89	+235	+56	23	77	+428	+0,53	+0,16	+0,08	+67	+30	+27	+272	+96	-13	65	+636	106	102	106	106	99	101	107	102	103	104	101	106	109	106			
CRV NL 748138760	Delta Reporter		Skyfall	Belfast	Gnat	96	+235	+15	757	99	+834	-0,12	+0,15	+0,02	+24	+44	+40	+243	+3	+60	90	+417	102	106	104	102	93	96	108	97	101	102	100	104	103	106			
CRV BE 911953889	Doodhoeck Kingston		Jasper	Massey	Gnat	92	+235	+7	430	96	+1226	-0,44	+0,05	-0,02	-8	+48	+54	+230	-7	+25	83	+582	107	104	106	101	100	93	108	95	96	99	101	101	100	100			
WWS US 3131083927	Aot Silver Helix		Silver	Supersire	Nat	86	+234	+14	172	91	+1867	+0,20	-0,11	+0,03	+101	+53	+89	+456	+25	+10	75	+293	100	101	107	101	103	106	100	91	98	103	106	99	103	103			
CRV NL 246470564	Beerzedal Paragon		Rocky	Jeeves	Gnat	95	+234	+0	647	98	+1052	+0,26	+0,09	+0,01	+70	+46	+49	+350	-8	+40	88	+558	105	101	104	100	103	100	102	97	104	105	104	100	104	100			
CRV NL 7959764370	Delta Sinder		Supershot	Epic	Gnat	90	+233	+3	366	95	+1955	-0,24	-0,09	+0,11	+57	+58	+101	+388	-77	-14	81	+639	100	101	104	99	108	99	104	94	109	104	107	98	106	106			
STG US 3012574967	Edg Bob Cyprus 15120-Et		Roylane Bookem	Numero Uno	Int	77	+233	-10	24	90	+1115	+0,28	+0,04	-0,01	+75	+43	+50	+349	+4	-24	72	+288	104	105	104	97	104	95	106	70	104	104	103	99	103	103			
GGI DK 03372306258	Cinema		Chevrolet	Snowman	Gnat	85	+232	-10	59	92	+2661	-0,36	-0,27	-0,05	+72	+62	+116	+440	-23	+38	78	+478	104	92	102	98	100	96	105	90	87	101	105	104	104	104			
ABS US 3132117134	Pine-Tree Prophecy		Monterey	Supersire	Nat	80	+232	-17	129	86	+1423	+0,06	+0,01	+0,06	+67	+51	+71	+711	+27	+28	69	+488	100	101	109	102	107	106	103	83	100	100	106	99	103	104			
Alt US 31322118670	Peak Altafeature		Altagenuity	McCutchen	Gint	79	+232	+32	85	88	+1735	-0,43	-0,27	+0,19	+28	+32	+89	+220	+47	+25	70	+610	108	101	106	104	102	103	104	107	78	98	100	109	100	104			
Mas DE 0365162492	Missa		Missouri	McCutchen	Gint	82	+231	+25	53	88	+1755	-0,47	-0,14	-0,11	+57	+46	+46	+350	+23	+19	69	+403	102	100	104	102	101	104	106	81	89	98	112	100	104	106			
WWS US 666366657	De-Su 521 Bookem		Planet	Ramos	Nat	98	+231	+5	485	99	+1211	-0,20	-0,04	-0,04	+31	+38	+59	+229	+8	+14	97	+515	107	104	108	100	104	94	100	99	99	102	106	102	104	104			
Gex US 73316308	Weigeline Jacqy Tabasco		Jacey	Bookem	Nat 2n	93	+230	+5	689	97	+1994	-0,29	+0,00	+0,00	+53	+69	+91	+422	+17	-17	86	+336	101	102	106	100	106	98	102	95	105	103	101	100	102	102			
NL 886744832	De Volmer Dg Super C		Supershot	Mogul	Nat	74	+230	+3	33	83	+1570	+0,03	-0,06	+0,06	+70	+48	+78	+367	+5	+12	68	+678	104	100	102	100	102	97	102	74	101	103	105	97	102	102			
Kam NL 634700561	Black Ex Blackbush		Bookman	Baltikum	Gint	75	+230	+10	67	88	+1495	-0,11	+0,05	+0,04	+52	+71	+122	+324	+32	-31	68	+476	101	101	105	101	106	96	102	78	101	101	105	104	107	104			
GGI DK 03372306362	Baltikum		Ballisto	Snowman	Gnat 2n	94	+229	-5	572	98	+1468	-0,21	+0,08	+0,03	+84	+59	+70	+439	+5	-5	88	+450	104	99	102	102	101	92	99	97	100	102	105	99	102	106			
CRV NL 660158767	Manders Don		Jetset	Mobile	Gnat	85	+229	-13	528	91	+726	+0,36	+0,14	+0,12	+65	+39	+45	+310	+7	-14	77	+438	104	104	105	102	104	99	102	84	103	106	108	100	106	106			
Alt US 73738275	Dy Altaperian		McCutchen	Roylane Socra	Nat	85	+229	-34	121	91	+320	-0,09	-0,01	+0,04	+48	+31	+48	+242	+18	-14	79	+330	103	108	106	101	104	101	102	82	97	101	107	104	106	106			
Gex US 3128463273	Syrzczuk Silvr Blowtorch		Silver	Altaoak	Nat	79	+228	+16	39	84	+1016	+0,32	+0,04	+0,00	+75	+39	+46	+331	-19	-34	69	+385	104	106	105	100	102	101	101	82	102	106	109	99	106	106			
CRV NL 718437783	Delta Topgear		Malki	Solero	Gnat	95	+228	-17	1155	98	+238	-0,14	+0,03	-0,10	-3	+11	+2	+39	-12	-30	88	+539	111	104	104	101	94	88	112	99	103	107	105	114	112	112			
GCI DE 0666662248	Commander		Commander	Supersire	Gint	73	+227	+5	24	85	+953	-0,34	-0,24	+0,06	+74	+57	+49	+404	+23	+33	63	+403	106	99	103	97	106	100	102	80	98	102	103	102	103	103			
STG DE 0538910879	Yuppi		Woodcrest Mq	Roylane Socra	Nat	71	+227	+9	41	82	+1701	+0,07	-0,09	-0,04	+79	+50	+73	+393	+17	+13	63	+435	101	102	104	99	105	105	100	62	100	103	104	100	103	103			
CRV NL 724941269	Weelder Endurance		Bravo	G-Force	Gnat	91	+227	-7	1162	94	+1379	+0,05	+0,03	+0,02	+64	+51	+65	+363	-24	+51	83	+590	103	100	103	105	102	97	100	99	97	104	106	98	100	100			
CRV NL 899486563	Midwolder Movement		Regard	Trigger	Gnat	87	+226	-0	289	93	+2134	-0,13	-0,12	-0,15	+76	+61	+114	+444	+17	+28	78	+496	101	97	104	97	101	104	102	93	104	102	100	101	102	103	103		
CRV NL 930896036	Newhouse Jasper	CD	G-Force	Cricknet	Gnat	92	+226	-6	123	96	+588	+0,22	+0,23	+0,02	+46	+42	+29	+278	+16	+35	86	+263	104	105	103	103	97	94	105	94	97	96	107	101	103	103			
CRV NL 669663330	Delta Jafin		Finder	Bube	Gnat Gn	81	+226	+5	289	88	+78	+0,27	+0,09	+0,04	+27	+11	+7	+104	-10	+3	71	+777	104	107	103	104	109	106	107	89	101	101	101	109	106	106			
GCI NL 622046483	Mars Laurent	RF PO	Label P	Snowman	Gnat	88	+225	-4	135	93	+313	+0,39	+0,31	-0,07	+49	+39	-8	+265	-20	+18	76	+624	107	101	102	98	98	98	107	91	100	100	107	98	103	103			
CRV NL 767212379	Delta Lonestar		Regard	Sunset	Gnat	90	+225	+22	443	95	+715	+0,13	+0,14	+0,14	+43	+38	+46	+600	+46	+41	82	+519	106	101	102	98	101	101	101	95	96	100	105	102	103	103	103		
WWS US 71813425	De-Su Penley 11839		Platinum	Shamrock	Nat	91	+225	+7	189	96	+887	-0,08	-0,03	-0,06	+30	+28	+35	+188	-2	-3	85	+885	110	104	101	102	104	92	100	94	100	103	107	98	103	103			
AWE NL 755898972	Cogent Dg Superstyle		Supersire	Super	Nat	87	+224	-7	128	94	+2178	-0,40	-0,19	-0,09	+48	+55	+108	+359	-9	-1	80	+529	104	102	102	100	107	104	102	87	102	103	103	98	102	103			
STG US 3138310311	Redrock-View Klutch		Jedi	Kingboy	Nat	71	+224	+60	42	80	+1262	-0,15	+0,02	+0,06	+38	+46	+64	+288	+103	-17	64	+639	104	107	106	97	106	94	99	78	101	103	113	91	103	103			
Alt US 55618778	Glen-D-Haven Altahtrod		Jerod	Altaiota	Nat	88	+223	+28	163	94	+2244	-0,23	-0,13	-0,01	+70	+64	+104	+441	+39	-16	78	+106	103	101	97	98	101	105	102	87	105	103	106	103	107	107			
Alt CA 12415209	Pine-Tree I Altaspire		Monterey	Supersire	Nat	71	+223	+22	40	81	+1129	-0,17	-0,01	-0,05	+69	+38	+57	+309	+17	+17	64	+491	104	104	106	98	108	102	107	77	99	100	105	98	101	103			
WWS US 3014365400	Ocd Rodgers Franchise		Rodgers	Mogul	Nat	79	+223	+20	35	85	+1517	-0,19	-0,18	+0,04	+45	+34	+73	+256	+29	+17	67	+449	106	103	109	107	105												

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-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	%F	%P	kgF	kgP	KgL	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Tem	MS	CLW	Rel	F	DS	U	F&L	T																
Melkdoel Zwart																		Productie										Functioneel										Exterieur											
Alt US 3134408771	Peak Altacomfort		Montana	Monterey	Nat	72	+209	+87	99	82	+1322	+0.00	-0.07	+0.04	+56	+39	+64	+297	+92	+16	64	+466	103	105	100	101	104	105	102	73	97	101	109	95	101														
GGI NL 916344441	Mars Mandela		Mogul	Super	Gnat	83	+209	+16	48	89	+848	+0.14	+0.09	+0.00	+50	+38	+39	+273	+27	+13	72	+496	103	104	108	98	104	100	102	81	98	99	101	99	99														
WWS US 70119251	Ronelee Sst O Daddy		Observer	Outside	Nat	83	+209	-7	36	90	+1541	-0.43	-0.13	-0.05	+21	+40	+65	+228	+5	+3	79	+381	106	104	105	100	96	102	109	85	101	102	100	100	101														
Alt DE 0359536976	Rr Altamopan		Mogul	Super	Nat	93	+209	-26	457	98	+1299	-0.10	-0.25	+0.12	+45	+20	+71	+198	-16	+36	89	+544	105	99	105	100	98	99	104	87	98	101	109	107	108														
CRV US 3125645118	Bush-Bros Ballist Trident		Ballisto	Day	Gnat	89	+208	-7	275	95	+835	+0.45	+0.18	+0.06	+79	+46	+44	+368	-6	+21	80	+387	106	98	103	100	101	96	99	93	97	102	108	98	103														
WWS US 3008160969	No-Fla Emulate 30309		Bookem	O Man	Nat	87	+208	+26	119	92	+1558	-0.02	-0.20	-0.03	+64	+33	+74	+292	-19	+18	81	+434	101	101	101	99	104	102	108	89	100	103	106	102	105														
GGI DK 03372306619	Dante		Danno	Bynke	Gint	77	+208	+16	31	86	+2019	-0.55	-0.20	-0.01	+26	+48	+91	+279	+23	+34	69	+353	107	98	106	102	99	96	101	82	100	100	105	105	105														
GGI DE 0538393143	Board Et		Boss	Epic	Gnat	90	+208	+14	132	95	+1291	-0.19	-0.03	-0.04	+36	+42	+63	+267	+11	+11	80	+452	107	100	105	101	103	95	105	91	104	104	105	101	105														
Gex US 73124156	Maplehurst Stoic Wilder		Spruce-Haven	Mogul	Nat	84	+208	+27	178	90	+549	+0.25	+0.15	-0.01	+47	+33	+24	+241	-3	+58	71	+452	99	101	103	105	103	100	105	85	91	96	111	106	106														
K&L US 70662837	Langs-Twin-B Wild Beast		Shema Jeeves	Wa-Dei Sebast	Nat	71	+208	+15	22	79	+1614	-0.34	-0.24	+0.15	+33	+31	+89	+223	+49	+23	73	+698	108	99	100	94	106	105	103	75	98	99	108	101	104														
ABS US 70346495	Even-Par Sst Cannon-ET		Roylane Socra	Alexander	Nat	93	+208	-7	803	98	+1765	-0.53	-0.25	+0.14	+19	+35	+95	+212	+5	+55	97	+651	106	100	102	96	101	102	106	91	102	99	106	100	104														
CRV NL 707081358	Koepoon General		Daddy	Jeeves	Gnat	94	+208	-19	408	98	+536	+0.02	-0.05	-0.04	+25	+14	+21	+116	-17	+7	89	+488	105	108	106	99	100	99	108	95	98	102	102	103	102														
CRV NL 921320519	Newhouse Adaro		Monopoly	Jeeves	Gnat	90	+208	+6	141	95	+139	+0.21	+0.01	+0.13	+25	+6	+18	+63	+7	+42	84	+700	105	106	105	99	103	102	104	91	102	102	105	100	104														
CRV BE 213107823	Delta Waterloo		Jorben	Monogoly	Gnat Gn	83	+208	-8	547	89	+138	+0.22	+0.11	+0.07	+13	+5	+0	+48	+145	+10	73	+617	107	105	94	103	94	107	113	93	93	97	105	111	106														
WWS US 3014365477	Ocd Montross Ladlaw		Montross	Supersire	Nat	83	+207	+36	199	91	+2634	-0.55	-0.25	+0.06	+49	+63	+127	+399	+40	+26	74	+411	101	101	97	97	104	101	102	99	103	103	107	96	103														
ABS US 71813206	De-Su 11620 Nirvana		Mogul	Planet	Nat	97	+207	+12	2024	99	+1532	-0.12	-0.05	+0.01	+53	+58	+71	+370	+40	+3	94	+458	101	99	105	98	105	100	97	97	101	102	108	104	107														
CRV NL 967155003	Delta Silverman		Danno	Star	Gnat	91	+207	+12	195	96	+1381	-0.43	-0.10	+0.10	+15	+38	+73	+209	+4	+7	84	+393	108	104	102	98	98	96	102	92	102	105	107	105	108														
WWS US 3123860395	S-Si Montross Jedi		Montross	Supersire	Nat	92	+206	-2	391	96	+12136	-0.62	-0.08	-0.18	+23	+66	+117	+354	+3	+8	84	+714	107	103	104	101	112	96	93	96	99	104	109	86	98														
Sem US 3014562064	Sandy-Valley Crackshot		Supershot	Mogul	Nat	75	+206	+32	32	81	+1920	-0.17	-0.23	-0.11	+63	+42	+99	+334	+52	-8	73	+510	104	96	106	104	106	102	78	102	104	110	103	109															
BGA DE 0666644448	Rzn Gastonbury Saxofon		Supershot	Cashmoney	Gint	76	+206	+16	41	86	+1422	-0.09	-0.01	+0.09	+51	+48	+74	+326	+14	-19	68	+447	97	105	106	107	101	95	106	81	103	105	102	99	108														
CRV NL 8886696628	Delta Bookem Danno		Bookem	Bolton	Gnat	98	+206	-3	31532	99	+1009	-0.24	-0.06	+0.02	+19	+29	+48	+173	+4	-22	99	+127	108	104	108	100	99	89	103	99	100	105	104	111	109														
CRV DE 0539391976	Wilder Smiley	RF	Battlecry	Brekem	Gnat	83	+206	-9	337	90	+93	+0.78	-0.26	-0.10	+49	+8	+26	+128	-17	-8	74	+542	105	107	104	97	102	99	105	93	95	99	106	103	103														
WWS US 70626040	De- Su Mgo Davinci 11288		Mogul	Watson	Nat	85	+205	-23	64	91	+1338	-0.11	+0.01	-0.08	+68	+48	+69	+360	-35	+3	79	+574	101	99	103	102	104	101	100	88	98	101	110	98	104														
ABS US 71813276	De-Su 11690 Fantasmic	RF	Bookem	Bookem	Nat	85	+205	-33	98	93	+1285	-0.05	-0.01	+0.01	+60	+46	+60	+330	-10	+6	78	+471	108	98	102	103	107	94	98	90	97	103	106	98	102														
Tot DE 0354449388	Boom		Bookem	Bogart	Gnat	87	+205	+0	157	94	+1570	-0.22	-0.11	+0.02	+44	+43	+74	+291	-9	+21	80	+170	107	104	105	103	106	98	99	85	102	102	107	98	104														
Tot NL 751487219	Koepoon Geronimo		Kingboy	Altamabassy	Gnat	81	+205	-6	67	90	+1504	-0.18	-0.20	+0.06	+45	+32	+75	+248	-5	+6	72	+481	108	102	108	101	104	101	101	82	100	102	105	97	101														
GGI DE 0537057055	Befford		Beacon	Goldwyn	Gnat	86	+204	-9	40	91	+1110	-0.04	-0.03	-0.03	+43	+42	+48	+277	-7	+41	77	+486	106	103	100	98	100	98	100	93	101	100	105	97	101														
Tot FR 271629370	Drakar Baltasar		Altaspring	Chvrolet	Nat Ng	69	+203	+203	32	78	+1128	-0.21	+0.04	+0.02	+27	+43	+54	+249	+77	-16	64	+509	101	102	107	100	98	101	107	70	99	104	110	106															
CRV NL 753102213	N Driehoek Nilson		G-Force	Boxer	Gnat	94	+203	+15	430	98	+1421	+0.36	+0.32	-0.03	+43	+37	+8	+244	+17	+1	88	+334	100	106	108	101	103	98	103	94	99	101	106	102	104														
CRV US 3013064533	Woods-Corn Yoder Splash		Woodcrest Moc	Bookem	Gnat	89	+203	+8	352	99	+64	+0.28	-0.06	-0.02	+54	+28	+27	+236	+15	+2	75	+314	104	103	103	105	103	101	104	94	101	105	106	105	107														
GGI DK 03200303245	Bushman		Bube	Bookem	Gnat	86	+203	-4	59	91	+1947	-0.56	-0.30	-0.05	+22	+35	+94	+218	+13	+36	73	+440	103	100	107	109	106	102	105	85	98	99	104	107	107														
AWE DE 0563838554	Brentano		Lithium	Sridan	Gnat	96	+203	+0	1817	99	+284	+0.19	+0.09	+0.16	+29	+18	+28	+143	+9	+11	92	+927	105	102	103	104	109	105	99	102	106	108	100	109	106														
WWS US 70626131	De-Su Ltm Rodgers 11379-ET		Balisto	Bruigen Russel	Nat	86	+203	+0	86	92	+763	-0.08	-0.14	+0.07	+25	+13	+42	+118	+3	+33	82	+366	109	107	109	108	102	99	104	80	96	97	101	101	99														
Alt US 3125475831	Peak Altafrebird		Camaro	Roylane Socra	Nat	88	+203	+26	188	94	+89	+0.32	-0.02	+0.09	+24	-1	+4	+48	+16	-7	77	+872	108	104	109	99	105	103	107	82	99	102	104	103	104														
Sem CA 12264620	Silverridge V Imax		Altaspring	Mogul	Nat	78	+202	-4	55	86	+1443	+0.10	-0.10	+0.05	+71	+40	+71	+334	+10	-43	71	+529	97	99	105	104	105	103	107	85	104	107	112	102	110														
WWS US 3131003289	S-Si Silver Spike		Silver	Jacey	Nat	82	+202	+43	206	89	+2061	-0.30	-0.26	-0.10	+85	+43	+105	+323	+63	+24	74	+291	104	103	105	99	105	103	95	88	105	105	114	99	109														
ABS US 58591942	Larcrest Commander		Mogul	Observer	Nat	96	+202	-3	1784	99	+1200	-0.01	-0.01	+0.14	+55	+45	+75	+322	+13	+27	93	+270	100	99	104	108	97	108	107	105	99	97	99	109	104	106													
Alt US 3129205459	Peak Altamulet		Josuper	Mogul	Nat	88	+202	+14	403	93	+1544	-0.09	-0.09																																				

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-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				
Melkdoel Zwart										Productie										Functioneel										Exterieur									
Tot NL 719790120	Hul-Stein Luigi		Supershot	Fanatic	Gnat	82	+191	+7	108	90	+2269	-0,34	-0,26	+0,11	+59	+50	+116	+364	+22	+13	73	+572	102	98	100	101	104	97	100	84	+107	106	108	96	105	100			
Sem US 3014561903	Sandy-Valley Afterburner		Flame	Mogul	Nat	87	+191	+15	212	94	+620	+0,24	+0,16	-0,04	+49	+37	+25	+262	+17	+1	76	+341	103	106	104	100	104	98	102	90	100	100	103	97	100	100			
WWS US 3132417775	Woodcrest King Doc		Kingboy	Mack	Nat	85	+190	+9	371	88	+1626	-0,10	-0,10	-0,07	+58	+46	+67	+331	+6	+1	74	+345	101	99	101	99	102	100	104	92	103	102	109	102	107	100			
WWS US 3008328673	S-S-I Bookem Morgan		Bookem	Shottle	Int	86	+190	+0	17	91	+1427	-0,15	-0,14	-0,00	+45	+35	+65	+258	+70	+25	80	+328	104	106	102	101	103	98	100	78	95	101	105	96	99	100			
Alt US 3132117161	Pine-Tree Altamoder8		Modesty	Supersire	Nat	78	+190	+20	111	85	+618	+0,24	-0,06	+0,08	+49	+16	+36	+179	-22	+20	68	+501	104	104	107	99	105	102	105	82	98	101	104	99	101	100			
Mas NL 571956786	Heidskipster Downtown		Doorsopen	Supersire	Gint	77	+189	-46	37	86	+1574	-0,11	-0,13	-0,01	+55	+41	+73	+306	-72	-45	68	+505	108	98	104	95	102	97	99	84	104	106	110	97	106	100			
STG US 3010353252	Farnear Roky Bal 54505		Ballisto	Mogul	Nat	82	+189	+9	116	90	+1134	-0,07	+0,06	-0,05	+41	+45	+47	+285	-7	-9	74	+623	103	99	104	101	107	101	98	85	103	102	114	98	108	100			
CRV NL 872360891	Manders Dazzel		Finder	Bube	Gnat Gn	82	+189	-67	175	89	+79	+0,74	+0,06	+0,06	+69	+8	+9	+180	-137	+1	72	+543	99	107	109	109	98	103	102	102	91	100	99	103	102	103	100		
Tot DE 0539386380	Col Dg Champ		Chevalier	Tango	Nat	67	+188	+75	36	77	+1525	-0,06	-0,17	-0,01	+58	+35	+71	+227	+197	+5	60	+184	104	103	104	104	101	104	102	69	100	102	104	100	102	100			
CRV NL 765795447	Peeldijker Locker		Balkikum	Bube	Gnat	85	+188	-29	507	91	+667	+0,48	-0,01	+0,00	+74	+22	+30	+235	-57	+32	77	+361	103	100	99	102	102	102	104	95	98	98	109	103	105	100			
Sam DE 0536281293	Coigent Bill		Ballisto	Epic	Nat	67	+188	+9	142	93	-198	+0,74	+0,42	+0,05	+56	+29	-5	+235	+17	+62	78	+632	107	104	102	107	102	98	102	91	99	103	107	94	101	100			
Alt US 3130643043	Elco Argo	RF CD	Silver	Supersire	Nat	72	+188	+22	22	80	+786	+0,03	+0,00	-0,17	+36	+27	+52	+202	+16	+6	62	+542	102	102	105	98	104	103	100	78	98	101	113	101	107	100			
SYG US 3010385126	Mr Dcs Mogg Watt Et	RF	McGassire	Alchemy	Nat	83	+188	-23	100	91	+1128	-0,29	-0,11	-0,16	+18	+28	+87	+175	-7	-24	78	+688	107	101	105	100	108	98	103	88	102	105	108	101	106	100			
STG US 72436822	Edg Ransom Lucant 8275	RF	Ransom	Snowman	Nat	85	+187	+27	182	92	+1010	-0,02	+0,06	+0,15	+41	+61	+73	+37	-5	75	+519	103	100	105	104	106	102	104	98	103	105	104	99	103	100				
WWS US 3009554689	S-S-I Epic Midnigh		Epic	Socrates	Nat	86	+187	-5	184	90	+1213	-0,08	-0,02	+0,05	+43	+40	+50	+269	-1	+7	82	+543	103	101	107	99	96	103	104	89	101	101	107	94	101	100			
Sam CA 12130526	Westcoast Pludge		Pulsar	Lady's Manor M	Nat	76	+187	-3	23	81	+918	-0,12	-0,07	+0,08	+51	+25	+50	+225	-7	+11	66	+392	103	104	103	102	102	101	103	77	96	100	114	98	105	100			
Alt US 3126668023	Peak Altigenaro		Altagenuity	Massey	Nat	74	+186	-13	80	84	+757	-0,10	+0,03	+0,08	+42	+29	+42	+220	+19	+44	64	+369	106	102	102	106	103	101	104	61	97	98	104	99	100	100			
Kam NL 672732294	Kik Barbaros		Ballisto	Sudan	Gnat	81	+186	+20	101	89	-57	+0,61	+0,31	+0,04	+51	+25	+1	+210	+25	+25	73	+709	102	103	99	104	102	100	102	84	100	98	102	101	101	100			
Alt US 74414026	Ing Montana		Montross	Numero Uno	Nat	85	+186	+39	171	92	+1000	-0,08	-0,13	-0,10	+48	+22	+56	+208	+73	-12	75	+640	106	107	103	100	103	107	98	99	103	103	108	90	100	100			
Sem CA 12379989	Progenesis Mustang		Supershot	Defender	Nat	74	+186	-5	58	82	+909	-0,07	+0,05	+0,16	+32	+27	+57	+195	-37	-33	67	+482	104	105	109	101	102	103	102	78	104	106	107	98	105	100			
GGI NL 940147494	Molenkamp Bolt	RF	Bookem	Spencer	Gnat	96	+186	+5	1346	99	+620	-0,05	+0,12	-0,04	+22	+33	+25	+189	+3	+49	93	+172	106	104	105	99	109	96	102	99	98	101	106	102	104	100			
GCI DE 0351653548	Bube Et		Beacon	Jeeves	Gnat	93	+186	+3	166	97	+1035	-0,40	-0,25	-0,04	+17	+27	+74	+181	+5	+38	88	+549	99	102	105	100	110	105	106	94	103	98	100	105	105	100			
WWS US 3125064659	Welcome Legendary 2870		Damaris	Shera Jeeves	Nat	79	+186	+3	47	85	+96	+0,29	+0,02	+0,04	+30	+5	+8	+86	+0	-8	66	+630	106	107	100	95	104	100	106	83	97	100	109	99	103	100			
WWS US 3124584893	S-S-I Modern Miller-P	PO	S-S-I Earhnart	Supersire	Nat	86	+185	+6	286	93	+1897	-0,25	-0,15	-0,07	+54	+50	+94	+347	+7	-8	76	+320	104	101	104	94	108	92	99	91	99	104	106	95	101	100			
WWS US 69981349	Seagull-Bay Supersire		Roylane Socra	Planet	Nat	97	+185	-19	1298	99	+1483	-0,08	-0,10	-0,07	+55	+41	+75	+306	-3	-17	95	+456	104	102	105	100	110	99	109	98	102	104	101	95	98	100			
Kam NL 929184881	Timmer Gallup		Bookem	Gnat	Nat	81	+185	-10	116	89	+1272	-0,02	-0,09	-0,10	+52	+35	+68	+273	-15	-16	73	+355	103	101	106	97	101	99	100	85	103	104	107	102	106	100			
CRV NL 533730469	Delta G-Force		Man-O-Man	Jordan	Gnat	99	+185	+3	18722	99	+696	+0,16	+0,17	-0,02	+45	+40	+30	+268	+5	+37	99	+274	97	105	102	103	99	99	101	99	98	99	103	105	103	100			
Alt US 3134407079	Peak Altamontoya		Altamareno	Supersire	Nat	77	+184	+19	67	83	+1477	-0,24	-0,07	-0,04	+87	+59	+72	+446	-29	-1	66	+338	101	96	104	100	106	97	98	93	104	105	107	95	103	100			
WWS US 3008897582	S-S-I Snowman Mayflower		Snowman	Socrates	Nat	89	+184	-12	226	93	+2398	-0,48	-0,17	+0,06	+48	+64	+116	+398	-18	+13	83	+385	101	97	99	98	100	100	99	93	100	103	103	97	100	100			
CRV NL 656787711	L-W Crescendo		Stellando Rf	Planet	Gnat	95	+184	-9	372	98	+1342	-0,06	-0,06	+0,03	+63	+41	+64	+320	-7	+39	90	+246	98	103	108	104	98	105	102	96	98	103	101	99	100	100			
Sam NL 755136074	Westenarde Jethro		Rocky	Gerard	Int	76	+184	-22	20	86	+1374	-0,27	-0,06	-0,01	+31	+42	+62	+266	-79	-34	72	+541	101	102	103	98	99	98	104	62	102	105	105	101	101	106	100		
CRV NL 945194293	Delta Rumba P	RF PO	Silver	Maddock P	Gnat	89	+184	-8	490	94	+675	+0,24	+0,07	+0,16	+51	+30	+46	+244	-23	+27	80	+442	102	99	101	104	101	100	106	96	92	101	111	101	104	100			
Bov US 140969423	Roneleo Dorcy Deligent	BY	Dorcy	Boliver	Gnat	87	+184	-13	112	94	+1277	-0,54	-0,12	+0,12	+0	+32	+70	+152	-9	+53	81	+468	107	102	106	99	102	106	99	90	92	95	113	99	103	100			
Alt US 74599862	Endco The Answer-Po	PO	Montross	Earnhardt P	Nat	73	+183	-75	32	82	+2263	-0,26	-0,17	-0,04	+67	+60	+108	+419	-7	+10	66	+445	98	96	105	102	102	106	103	77	103	104	103	97	102	100			
Mas DE 0121814251	Sylvret		Silver	Galaxy	Gint	82	+183	-6	52	87	+1606	-0,14	-0,09	+0,06	+54	+47	+80	+330	+13	-4	70	+323	100	100	102	95	102	104	99	83	97	103	110	102	106	103	100		
ABS CA 11720553	Brabantdale Drake		Commander	McCutchen	Nat	84	+183	-14	143	91	-209	+0,82	+0,44	+0,06	+62	+31	-4	+256	+19	+23	74	+244	106	100	105	101	107	101	103	85	98	98	110	98	103	100			

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-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																
Melkdoel Zwart																					Productie											Functioneel											Exterieur										
																					pnt																																
Alt	US 3126779961	Peak Altamoreno		Co-Op Upd Hunt Mogul		Nat		89	+173	+22		603	95	+2110	-0.10	-0.10	+0.05	+78	+62	+102	+449	+26	+17	80	+164	99	98	101	100	103	92	97	91	103	105	108	96	104															
ABS	US 3013115112	Rosylane-Lic Spock		Silver	Supersire	Nat		77	+173	+22		73	82	+476	-0.62	+0.07	-0.10	+78	+23	+31	+267	-18	-7	76	+408	98	103	106	100	105	103	101	70	102	104	103	102	104															
OBS	DE 0358174839	Milord		Missouri	Headliner	Gint		82	+173	+13		56	88	+980	-0.07	+0.01	-0.09	+35	+35	+36	+228	+5	+35	69	+312	103	101	103	103	101	101	104	83	89	97	109	99	100															
WWS	US 3136807511	S-S-I Bandares Biggie		Bandares	Supersire	Nat		72	+173	+20		34	82	+464	+0.25	+0.12	+0.12	+43	+27	+32	+211	+117	-34	54	+363	108	102	106	92	106	102	99	82	104	106	111	97	106															
CRV	NL 656149430	Groenibo Bram	HF	Bolt Rf	Stellando Rf	Gnat		93	+173	-79		487	97	+584	+0.01	+0.12	+0.02	+26	+32	+29	+195	-23	-1	85	+394	108	102	103	97	106	97	99	86	103	106	104	101	104															
ABS	US 3128557482	Abs Achiever		Woodcrest Mo	Altambassy	Nat		72	+173	-61		32	81	-149	+0.98	+0.13	-0.11	+79	+6	-16	+186	-115	+29	65	+208	103	104	108	100	104	105	102	81	96	102	105	102	103															
GCI	DE 0538399796	Simba		Silver	Boss	Gnat		84	+173	-7		85	90	+1140	-0.17	-0.16	-0.10	+31	+24	+62	+182	-16	+4	72	+419	103	102	106	101	99	104	99	89	97	99	113	102	107															
Alt	US 3010354356	Tjr Altadisco		Tango	Mogul	Nat		87	+172	+0		251	94	+1730	-0.36	-0.21	+0.06	+35	+38	+85	+255	-40	-14	78	+312	103	101	107	97	98	103	103	85	104	106	112	101	109															
Alt	US 3131131438	Peak Altalobello		Donatello	Mccutchen	Nat		87	+172	-10		432	92	+603	+0.25	+0.00	+0.14	+49	+21	+41	+201	-33	+2	76	+434	104	103	104	99	105	103	103	87	99	101	108	97	103															
GCI	DE 0537611409	Guard		Guarrini	Leif	Gnat		94	+172	-7		482	98	+114	+0.28	+0.32	+0.00	+30	+33	+5	+200	-15	+58	88	+113	101	106	105	97	94	97	102	94	97	98	103	102	101															
Kam	NL 751089590	Koepoon Motif		Mogul	Planet	Gnat		83	+172	-13		66	91	+554	+0.27	-0.06	+0.04	+49	+14	+29	+169	+2	+12	75	+631	103	99	102	102	106	110	100	85	101	104	110	106	108															
CRV	NL 686179810	Delta Fair PP	PP	Rafter P Rf	Ohare P	Gint	Gn	77	+172	+25		73	86	+852	-0.19	-0.01	+0.02	+10	+22	+31	+121	+13	-14	69	+496	106	100	103	101	103	94	108	85	98	103	106	106	106															
GCI	DE 0539524217	Brand		Balu	Mahua	Gint		78	+171	-54		119	86	+1860	-0.03	+0.12	-0.02	+46	+52	+51	+325	-26	-5	68	+469	101	99	103	101	104	99	101	86	104	102	101	95	106															
Kam	NL 756624448	Gieszen Utopia		Rabicon	Snowman	Gnat		83	+171	+22		135	91	+556	+0.58	+0.15	-0.05	+78	+33	+30	+288	+3	+23	74	+380	103	98	102	101	94	97	101	86	104	103	107	100	108															
ABS	US 73953502	Bomaz Daredevil		Damaris	Altawiseman	Nat		71	+171	-9		84	82	+458	+0.53	+0.09	-0.04	+69	+24	+17	+248	-26	+43	62	+463	103	104	101	100	99	95	98	69	99	99	102	96	108															
GCI	DE 0666050471	Big Point		Bookem	Man-O-Man	Gnat		92	+171	-8		266	97	+1614	-0.51	-0.12	+0.08	+15	+44	+82	+237	-5	+11	85	+471	102	102	101	97	102	98	90	91	95	103	109	99	103															
Kam	NL 7159116661	De Vrandt Grand P	PO	Snowman	Snowman	Gnt	Gn	74	+171	+53		135	88	+580	-0.01	+0.02	-0.10	+30	+11	+25	+10	-6	-18	67	+305	100	101	107	103	103	105	103	90	102	104	108	99	105															
CRV	NL 938401263	Buisweerd Mobile		G-Force	Bertill	Gnat		98	+171	-9		14044	99	+377	+0.74	+0.37	-0.04	+47	+18	+21	+166	+5	+3	99	+224	110	104	104	100	102	96	96	99	94	98	101	102	99	104														
Sem	CA 12556108	Legend-Maker Victor		Kingpin	Liquid Gold	Nat		76	+171	+20		149	85	+126	+0.22	+0.17	+0.07	+25	+20	+12	+138	+20	+31	67	+493	102	104	95	96	104	103	106	84	104	103	115	104	112															
GCI	DE 0357840595	Bagno	HF	Balisto	Epico	Gnat		83	+170	-24		51	91	+1048	-0.10	-0.04	+0.05	+35	+40	+53	+123	-24	+22	74	+699	102	99	101	104	104	100	103	84	96	99	108	94	100															
Sem	CA 12380028	Progenesis Avatar		Altaspring	Defender	Nat		79	+170	-15		142	87	+740	+0.24	+0.03	+0.21	+54	+29	+54	+249	-18	-2	70	+307	101	101	106	101	101	106	101	83	99	105	114	99	107															
Alt	US 739533344	Bomaz Altacapo		Altaspring	Roylane Socra	Nat		80	+169	+32		113	88	+520	+0.26	+0.16	+0.00	+46	+33	+24	+239	+51	+5	67	+235	104	106	100	97	104	104	102	67	100	101	103	96	100															
CRV	NL 675268482	Delta Wisent	HF	Whitapp Rf	Atlantic	Gnat		93	+169	-13		1337	96	+819	-0.56	-0.08	-0.01	+30	+11	+25	+10	-6	-11	85	+628	107	105	106	97	103	101	110	99	101	104	103	102	107															
CRV	US 3014562186	Sandy-Valley Caleb		Jedi	Supersire	Gint		74	+168	+35		35	84	+1302	-0.30	+0.00	-0.10	+25	+45	+70	+258	-11	+44	66	+403	104	104	104	98	111	100	97	82	100	103	112	94	104															
K&L	FR 5632667935	Jetset		Doorman	Ermes	Gnat		96	+168	-13		1817	99	+336	+0.06	+0.16	+0.05	+20	+26	+20	+155	-7	-42	90	+508	111	99	101	101	105	95	103	99	103	105	113	99	108															
GCI	NL 709809726	Topespeed Go Now	HF	G-Force	Ralstorm	Gnat		86	+167	-9		68	93	+1301	-0.03	+0.14	-0.04	+52	+69	+65	+388	+9	+16	79	+329	101	100	100	99	101	100	98	87	101	100	101	97	99															
Alt	US 69312636	Sar-Jas Altavime	CD	Predestine	Snowman	Nat		74	+167	+2		31	81	+842	+0.03	-0.02	+0.04	+39	+27	+42	+205	+9	+13	66	+661	104	103	105	98	100	100	103	71	97	101	98	94	101															
Sem	CA 107931158	Silverridge V Envious		Mccutchen	Snowman	Nat		92	+167	+4		323	97	+757	+0.08	-0.09	+0.10	+40	+18	+44	+171	-7	-28	85	+384	106	102	100	99	100	97	105	92	101	103	109	101	106															
CRV	NL 925687513	Boww Rocky		Shamrock	Gol	Gnat		98	+167	-7		13323	99	+111	+0.15	+0.10	-0.07	+18	+13	+14	+32	-2	-78	99	+732	109	101	107	99	100	98	103	99	102	106	107	102	106															
WWS	US 3132344633	No-Fla Lavon 42698		Supershot	Mayflower	Nat		69	+166	+1		40	79	+1389	-0.42	-0.11	+0.12	+16	+37	+76	+208	+16	+25	63	+482	105	103	105	104	102	99	102	67	100	104	104	96	101															
Alt	NL 751487480	Peak Altamarlon		Altaspring	Co-Op O-Style Cnt			73	+165	-32		16	87	+1818	-0.36	-0.20	+0.00	+39	+42	+83	+279	-30	-14	70	+309	95	104	107	103	100	104	68	101	105	112	99	107																
CRV	US 73163134	No-Fla Shock 80844		Tranquillity Cal	Erdman	Int		82	+165	-3		25	89	+1198	-0.19	-0.18	-0.01	+32	+24	+54	+182	+0	+30	72	+562	103	105	106	102	103	106	98	82	95	99	106	94	98															
Alt	NL 66172108	Double V Radiator		Jetset	Snowflever Cnd	Gnt	Gn	81	+165	-24		110	88	-102	+0.60	-0.18	+0.48	+12	-8	+148	-28	-3	72	+379	108	100	100	102	102	101	97	90	100	102	114	102	109																
WWS	US 3008328663	S-S-I Robust Biggie		Roylane Socra	Planet	Nat		92	+164	-2		675	96	+1226	+0.05	+0.02	-0.08	+57	+45	+64	+333	+20	+22	86	+435	100	96	103	98	106	104	107	92	103	102	101	98	101															
GCI	DE 1267420394	Sisko		Silver	Nog Ikaro	Gint		74	+164	+16		33	84	+1422	-0.12	+0.14</																																					

$$NVI_{dubbeldoel} = 0,35 \cdot I_{net} + 0,09 \cdot I_{vd} + 5,2 \cdot UGH + 5,2 \cdot VRU + 5,2 \cdot U_{ier} + 6 \cdot \text{Beenwerk} + 2 \cdot GEB + 5,2 \cdot VLi$$

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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	Er-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														
Melkdoel Zwart																					Productie										Functioneel										Exterieur									
Tot UK 388380500653		Willisro Ss Astonishing	Silver	Epic	Gnat		83	+137	+2	75	91	+642	+0.03	-0.04	+0.06	+30	+19	+35	+151	-8	-45	73	+398	105	102	103	100	103	103	101	85	103	104	108	99	105	105	105												
Sam NL 661903733		Farmers Wish Exloer Caruso	Malki	Ramos	Nat		86	+137	+9	178	93	-183	+0.19	+0.09	-0.07	+9	+1	-14	+19	+20	-7	78	+759	106	99	104	98	96	94	109	84	99	103	105	102	104	104	104												
Kam NL 584593875		Keopon Topsin	Topgear	Jeeves	Gnat Gn		78	+137	+14	40	86	-801	+0.65	+0.20	-0.02	-18	-12	-38	-23	+7	-7	71	+377	107	105	102	100	100	95	105	83	99	104	102	109	106	106													
CRV NL 720660029		Delta Sakobae	Epic	Bolton	Gnat		96	+136	+70	3705	98	-1175	-0.10	-0.03	-0.04	+40	+38	+58	+257	+75	-61	92	+480	100	99	105	99	106	100	106	99	105	106	105	104	107	107													
Tot NL 761828082		Dg Albero Blooper	Boss	Beacon	Nat		82	+136	+9	82	91	-414	+0.68	+0.40	-0.04	+40	+19	-22	+155	+16	+16	74	+288	101	102	106	101	101	101	101	77	95	98	105	102	102	104													
Tot NL 920962055		Vekis Dg Popeye	Ballisto	Numero Uno	Gnat		86	+136	+12	71	91	-312	+0.57	+0.27	+0.12	+35	+12	-4	+122	+10	+5	75	+506	103	104	100	99	105	102	99	84	99	100	113	96	104	104													
Kam NL 669633054		Aalshorst Multiplayer	RF	Silver	Jerudo	Gnat		82	+135	-7	105	90	+1107	+0.10	-0.08	-0.04	+57	+31	+55	+263	-37	-33	73	+487	100	102	99	98	103	103	98	84	105	105	106	104	104	108												
Mas DE 0357402000		Bonando		Boss	Beacon	Gnat		81	+135	-3	51	89	+1265	-0.07	-0.09	-0.01	+47	+35	+57	+259	-29	+7	72	+181	103	101	100	93	103	99	98	82	97	97	102	99	99													
WWS US 3006972816		Moutfield Ssl Dcy Mogul		Dorcy	Marsh	Nat		98	+135	+0	1428	99	+876	-0.14	-0.13	-0.13	+51	+18	+53	+197	+40	+35	96	+357	97	99	107	101	106	110	100	99	99	102	113	101	107													
WWS US 71303599		Le-O-La Mogul Gambler		Mogul	Atwood	Nat		79	+135	+73	26	82	+1364	-0.30	-0.27	+0.06	+27	+20	+68	+159	+49	+16	71	+337	104	98	105	101	102	103	102	76	97	102	113	99	106	106												
Alt FR 7261003991		Eba Altafethro		Tango	Mogul	Nat		75	+134	-6	36	84	+1181	-0.22	-0.13	+0.03	+28	+28	+57	+191	+15	+5	75	+162	103	101	104	100	101	100	104	72	99	102	105	99	102	104												
Sem CA 11792112		Ginary Dodge		Diamond	Numero Uno	Nat 2n		90	+134	-2	382	95	+754	-0.01	-0.15	-0.09	+31	+12	+43	+127	-3	-16	79	+298	110	103	94	98	104	98	101	90	100	103	111	96	104	106												
Sam NL 869916407		Mastendroeker Braxton		Bookem	Paramount	Nat		80	+133	+75	79	88	-1526	-0.55	-0.18	-0.03	+48	+34	+73	+178	+22	+42	73	+225	102	98	102	96	101	97	100	79	97	98	104	103	103	103												
OBS DE 0536771582		Trend		Tribune	Mogul	Gnat		81	+132	-14	53	88	+308	-0.48	-0.33	-0.07	+7	+12	+67	+84	-6	-31	67	+518	100	105	101	96	102	105	102	80	103	103	112	101	108	108												
GGI UK 388380300287		Nugget	RF	Numero Uno	Destry	Gnat		82	+132	-5	27	90	-504	+0.66	+0.11	+0.06	+34	-8	-18	+33	-6	+23	75	+234	106	108	102	101	102	106	106	85	90	96	110	94	99	99												
Mas DE 0356965029		Dorpepe		Dolph	Galaxy	Gint		74	+131	-32	45	85	-775	-0.19	+0.04	-0.07	+51	+31	+29	+243	-3	-30	65	+194	102	98	104	101	103	104	102	79	100	101	103	99	101	104												
WWS CA 11161715		Mapel Wood Brewmaster		Garrett	Shottle	Nat		93	+131	-5	1044	97	+611	+0.51	-0.12	-0.05	+74	+10	+33	+206	-27	+26	86	+43	100	102	105	100	97	102	100	97	103	103	104	103	105	105												
Alt US 3010356295		Eba Altajango		Tango	Shamrock	Nat 2n		87	+131	-5	314	94	+485	+0.27	+0.03	+0.09	+46	+20	+31	+188	+11	+15	78	+150	101	104	103	98	105	106	103	84	105	104	108	97	105	105												
WWS US 72436679		Edg Esther Estate 8132		Mogul	Bookem	Nat		82	+131	-70	99	90	-744	-0.11	-0.02	-0.04	+21	+24	+38	+154	-77	-8	74	+343	100	103	102	97	106	104	100	81	99	103	114	99	107	107												
ABS US 71813323		De-Su 11737 Hatrick		Day	Roylane Socra	Int		83	+131	+2	27	89	+1078	-0.42	-0.22	+0.00	+4	+16	+49	+89	-4	+17	75	+374	105	102	104	102	99	104	102	84	93	100	107	100	102	104												
Sam NL 11603011		Boldi V Emphasis		Meridian	Man-O-Man	Nat		89	+130	-5	256	95	+1129	-0.06	-0.13	+0.10	+42	+26	+62	+213	-11	-19	81	+187	102	100	98	106	99	101	106	88	101	103	105	101	104	104												
Sam NL 6664232057		Cogent De Grob Moat		Kingboy	Mogul	Nat		77	+130	+6	99	85	-1053	-0.30	-0.16	-0.00	+23	+28	+29	+101	+10	-10	69	+304	100	98	106	98	100	99	100	82	100	102	111	98	105	105												
Tot DE 0356706949		Alonso		Alpine	Epic	Gint		77	+130	+4	16	83	+1419	-0.35	-0.27	-0.01	+24	+22	+64	+160	+3	+50	71	+299	104	99	99	99	101	103	102	78	98	100	108	100	104	104												
WWS US 70625776		De-Su Robust Eric 11024		Roylane Socra	Ramos	Int		78	+130	-10	42	87	+547	-0.02	-0.01	-0.01	+21	+20	+24	+133	-2	-12	74	+372	99	104	103	103	102	104	105	72	103	101	104	101	104	104												
ABS US 58591946		Larcnest Caballero		Mogul	Observer	Nat		82	+130	+74	69	88	+108	+0.38	+0.07	-0.03	+39	+10	-2	+124	-20	+26	79	+303	104	103	105	102	105	102	100	71	97	100	108	97	102	102												
Sam NL 750300605		Keopon Booster		Bookem	Jeeves	Nat		86	+129	-17	182	93	+366	+0.50	+0.07	-0.00	+62	+19	+17	+133	-18	+19	77	+291	97	104	101	99	103	96	100	82	99	101	98	102	100	100	100											
CRV NL 921226060		Vero Startrek		Snowfever Cd	Planet	Gnat		98	+129	+4	10928	99	+775	-0.08	+0.09	+0.00	+25	+36	+35	+211	+12	-26	96	-8	103	103	95	103	97	90	102	99	104	102	108	102	107	107												
Sem CA 11585003		Claybrook Duoduct		Numero Uno	Planet	Nat		85	+129	+16	48	87	+1112	-0.14	-0.14	-0.05	+33	+25	+56	+188	-3	+38	82	+468	101	100	96	101	104	102	105	89	93	98	110	94	100	104												
WWS US 3014334961		S-S-I Partyrack Profit		S-S-I Maurice F Mogul	Nat 2n			78	+129	+13	52	88	+276	+0.11	+0.15	+0.09	+22	+23	+21	+447	+26	+43	69	+403	101	101	106	103	105	103	99	82	94	97	109	98	101	107												
Mas DE 0358275680		Racer		Log-In	Gint			75	+129	-13	40	83	+477	-0.21	-0.10	-0.01	+1	+26	+21	+115	-16	-67	64	+169	106	105	104	104	103	99	100	76	105	102	110	100	107	107												
Sem US 70801848		Coyne-Farms Jetset		Facebook	Badger-Bluff Fa	Nat		77	+129	+0	26	86	+512	+0.08	-0.07	-0.01	+29	+11	+24	+113	-3	-23	71	+394	100	108	102	103	105	102	102	80	100	102	102	100	101	104	101											
GGI DE 1265310822		Benares P	PO	Ballisto	Shema Jeeves	Gint		78	+128	+7	23	87	+471	-0.29	-0.04	+0.02	+4	+22	+36	+109	+6	-6	70	+422	104	104	100	98	104	101	101	83	98	100	109	97	103	103												
Sem US 71640112		L-L-M-Dairy President		Numero Uno	Million	Nat		86	+127	-5	113	93	+965	-0.25	-0.27	-0.02	+16	+7	+42	+75	-4	+28	80	+453	103	103	102	99	104	104	106	88	100	95	109	96	102	102												
GGI DE 1500977836		Jettin		Jeeves	Goldwyn	Int		88	+127	-5	51	93	+988	-0.29	-0.30	+0.00	+13	+6	+45	+61	-9	+43	80	+401	102	107	101	97	99	101	102	88	97	100	102	99	100	104	104											
STG US 3012574853		Mr Coin Draco 15006	CO	Cashcoin	Roylane Socra	Nat		77	+126	-13	26	84	+1242	-0.21	-0.22	-0.06	+31	+21	+63	+170	-17	-19	72	+463	108	101	100	102	102	99	99	79	96																	

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

Perspublicatie stierindexen Zwartbont

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	Gab	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	Fr	Cal	Dec	Tem	MS	CLW	Rel	F	DS	U	F&L	T			
Melkdoel Zwart																																						
CRV NL 694776043	Midwolder Goldmar		Goldwyn	O Man	Gnat	98	+118	+5	8160	99	+294	+0.22	+0.11	+0.12	+33	+20	+24	+159	-2	+25	99	+253	105	99	106	105	108	97	99	99	101	102	104	99	102			
CRV NL 606567303	Haafs Cashier		Danno	Snowfever Cd	Gnat	88	+118	-12	602	93	+618	+0.01	-0.05	-0.04	+27	+17	+32	+136	-23	+39	81	+495	108	98	101	100	101	97	98	96	97	95	110	102	105	100		
GGL DE 1501528418	Bolanos		Banesto	Leko	Gint	76	+118	-7	29	86	+1424	-0.61	-0.20	-0.04	-2	+29	+61	+133	-9	+5	68	+468	103	99	105	99	105	97	98	78	104	102	102	103	104			
Yes IT 019500393890	New Farm Britt Prince		Britt	Moto	Nat	98	+118	+2	7589	99	+62	-0.05	-0.10	-0.05	-2	-7	+7	-31	-2	+55	99	+768	104	104	96	100	104	94	94	102	99	100	99	96	106	101		
Sam NL 933340101	Enforcer		Emerald	O Man	Nat	90	+117	+5	220	96	+699	+0.06	-0.01	-0.04	+35	+23	+28	+176	+70	+1	85	+201	101	101	103	102	101	97	104	85	103	102	96	103	101			
CRV NL 528319873	Delta Lambert		Bertli	Win 395	Gnat	98	+116	-7	2545	99	+1757	-0.18	-0.09	-0.08	+55	+52	+72	+350	+0	+39	96	+151	96	95	93	101	93	97	102	99	95	101	97	105	100			
Tot NL 736800220	Dg Albero Eldorado		Montross	Supersire	Nat	87	+116	+6	366	93	+1154	-0.11	-0.06	+0.07	+38	+34	+60	+127	+20	+1	78	+487	98	100	104	105	109	105	99	90	96	102	105	94	99			
SZO IT 020990514352	Royal Jeeves Scolari		Jeeves	Goldwyn	Gnat	93	+116	+0	519	96	+532	+0.08	-0.05	+0.02	+30	+14	+26	+128	+0	+92	86	+316	104	102	100	97	103	100	101	94	96	96	105	93	97			
AWE US 69990227	De-Su Ransom		Roylane Socra	Ramos	Nat	94	+116	+2	1268	98	-154	+0.22	+0.11	+0.07	+13	+4	-1	+43	+15	-32	89	+551	98	106	106	107	108	104	107	96	105	105	100	101	103	102		
Sam NL 665304776	Grashoek Galvin	IF	Geronimo	Observer	Nat	73	+115	-0	65	81	+1176	-0.15	-0.16	-0.08	+35	+25	+46	+190	-7	+45	67	+488	100	100	92	100	103	100	99	73	84	96	104	100	100			
BoV US 3012353677	Edg Mogul Barclay 25000		Mogul	Lavaman	Nat	75	+115	+9	53	86	+798	+0.11	-0.09	-0.14	+44	+19	+50	+185	-3	+22	68	+460	97	99	104	102	102	103	104	74	96	101	111	98	104			
GGL NL 549639817	Balido		Balisto	Numero Uno	Gint	82	+115	-7	21	86	+87	+0.26	+0.05	+0.27	+26	+8	+166	-6	-32	72	+394	103	103	104	101	103	98	99	83	100	101	107	93	100				
ABS US 3128557283	Big Abs Jericho Et		Josuper	Mogul	Nat	87	+115	-15	535	92	+417	+0.15	+0.07	+0.01	+32	+21	+45	+159	-3	-22	77	+263	100	100	103	100	109	108	103	91	101	104	105	100	104			
Mas FR 1448852790	Bossanova		Bronco	Shottle	Gnat 2n	84	+115	-16	64	92	+814	-0.28	-0.09	-0.00	+11	+23	+42	+130	-5	-8	77	+472	104	100	99	100	104	96	104	83	99	101	103	98	100			
WWVS CA 11104016	Generations Epic		Super	Altabaxer	Nat	98	+115	-6	2219	99	+1093	-0.32	-0.19	-0.05	+15	+19	+55	+126	-5	-19	96	+458	101	101	102	104	103	101	99	104	103	108	95	105				
WWVS US 3011538150	S-S-I Sterling Damaris		Sterling	Bookem	Nat	80	+115	-6	17	83	+562	-0.03	-0.03	-0.02	+21	+17	+24	+121	-4	-45	78	+516	102	101	102	99	102	98	101	79	90	96	106	95	97			
WWVS US 71703339	Baron Hill Montross		Mogul	Bolton	Nat	95	+114	+3	862	98	+2125	-0.55	-0.25	+0.03	+30	+19	+101	+234	+1	+34	98	+358	99	101	104	100	105	107	97	97	101	102	105	99	94			
WWVS US 71703339	Baron Hill Montross		Mogul	Bolton	Nat	95	+114	+3	862	98	+2125	-0.55	-0.25	+0.03	+30	+19	+101	+234	+1	+34	98	+358	99	101	104	100	105	107	97	97	101	102	105	99	94			
Alt NL 522740642	Mars Altifaxmar		San Fiorano Ste	O Man	Int	82	+114	-7	41	91	+769	+0.16	+0.16	+0.00	+48	+42	+35	+284	-6	-1	79	+311	100	100	106	102	103	99	69	104	100	102	97	101	100			
Mas DE 0355893047	Mytime		Mogul	Shottle	Gint	84	+114	-7	33	89	+1234	-0.09	-0.08	+0.09	+43	+35	+65	+253	-8	-16	75	+315	99	98	100	100	105	106	98	83	102	103	110	99	106			
WWVS US 74564764	Plain Knoll King Royal		Kingboy	Mogul	Nat	87	+114	-9	324	92	+537	-0.32	-0.12	-0.08	+53	+30	+17	+239	+1	-1	77	+300	98	98	106	94	99	105	99	93	97	101	109	96	102			
Kam NL 639677471	T Brook No Claim		Twist	Jorrryn	Gnat	89	+114	+0	172	95	-23	+0.45	-0.18	-0.01	+39	+15	+0	+143	-2	-19	81	+203	97	103	103	97	106	102	107	89	103	101	99	105	103	103		
GGL DE 0538155657	Percy	IF	Perfect Aiko	Snowman	Gnat	83	+114	+0	40	91	+323	+0.03	-0.02	-0.05	+16	+9	+10	+74	+2	-46	75	+311	104	102	101	99	103	104	105	86	101	105	101	106	105	100		
GGL DE 0769882276	Snowboard		Gibor	Gnat	Nat	95	+113	+0	98	93	+1084	-0.11	-0.13	-0.05	+57	+25	+45	+236	+20	+17	77	+117	106	99	98	98	98	100	86	102	101	101	96	98				
Yes IT 024990369520	D Mason Berico		D Mason	Goldwyn	Nat	87	+113	-15	277	94	+1019	-0.13	-0.06	-0.03	+30	+30	+44	+199	+6	-7	80	+354	102	101	101	99	101	95	96	87	99	102	104	98	101	100		
Sam NL 737132388	Vvh Repairman		Maik	Snowman	Nat	96	+113	-17	1339	99	+390	+0.28	-0.05	-0.08	+42	+18	+10	+165	-17	-38	93	+183	103	99	104	101	99	97	103	97	98	104	98	106	102	102		
Adv BE 512450560	Delana Morrison		Montross	Altaiota	Gnat	85	+113	-9	177	92	+1044	-0.24	-0.17	-0.18	+21	+20	+65	+146	+17	-19	76	+340	103	103	102	103	106	102	101	91	103	104	104	96	102	100		
GGL FR 2934544535	Disanto Et		Doorman	Dempsey	Gint	81	+113	+7	26	86	-196	+0.70	-0.16	-0.02	+52	+7	-11	+135	-4	-69	70	+123	111	99	99	97	101	96	100	82	101	101	116	98	108			
Alt US 72395528	Melarry Altamatt		Numero Uno	Explode	Int	85	+113	+0	19	91	+840	-0.06	-0.20	-0.00	+30	+10	+38	+115	-3	-13	77	+305	105	104	102	103	102	104	99	86	102	104	112	93	104			
ABS US 159005002	Coyne-Farms Dorcy	IF	Bolton	Bret	Nat	97	+113	+3	1555	99	+1059	-0.34	-0.21	-0.08	+13	+17	+58	+114	+2	+12	96	+599	106	100	100	92	106	104	95	99	101	101	113	94	104			
K&L FI 117178265	Vh Postilan Balisto Bolus	IF PP	Balisto	Bolton	Gint	83	+113	-29	18	84	-159	+0.24	-0.28	-0.03	+14	+19	+10	+104	-55	-19	81	+381	103	104	98	97	104	100	97	82	100	104	114	98	106			
GGL NL 549648800	Koepon Louis PP	IF PP	Label P	Epic	Gint	81	+113	-5	29	87	-434	+0.00	+0.18	-0.07	-18	+0	-14	-42	+4	-40	68	+598	106	106	103	104	98	101	106	81	100	103	108	97	103	103		
WWVS US 3009833223	Mr Ocd Epic Dragonheart		Epic	Planet	Int	87	+112	-3	101	92	+2136	-0.56	-0.43	-0.01	+29	+27	+97	+201	-7	+34	80	+267	100	102	99	104	102	103	99	91	100	99	107	95	101			
Sem CA 12111803	Oconnors Classic		Alta1stclass	Mccutchen	Nat	77	+112	+2	79	84	+1093	-0.22	-0.16	-0.03	+24	+22	+53	+157	+39	-1	76	+210	103	102	101	97	104	105	97	82	96	99	117	95	105			
Kam NL 925177281	T Brook Hacker		Stonewall	Jorrryn	Gnat	87	+112	+0	123	94	-105	+0.07	-0.14	+0.04	+2	+9	-1	+41	-22	+14	80	+396	100	104	102	102	108	95	105	85	98	99	100	105	102	100		
Yes NL 932421854	Weggehorster Disclosure		Maik	Ramos	Nat	97	+112	-12	2360	99	+96	-0.08	-0.13	-0.05	+11	-8	+0	+10	-5	-17	95	+456	106	109	109	105	89	98	100	97	96	98	97	95	94			
CRV NL 721720843	Peelsehoeve Bernini		Atlantic	Snowman	Gnat 2n	98	+111	-2	5615	99	+523	+0.23	-0.08	-0.08	+44	+26	+16	+204	+0	-13	95	-35	101	102	106	101	99	101	102	99	103	102	101	100	102	100		
Alt US 3123600810																																						

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

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															
Melkdoel Zwart												Productie										€										Functioneel										Exterieur									
WWS	US 3014561968	Sandy-Valley Antares		Kingboy	Mogul	Nat		69	+102	-12		36	80	+610	+0.09	+0.01	+0.01	+34	+22	+29	+170	-26	-26	70	-37	101	103	110	101	101	102		70	100	102	109	96	103													
Tot	DK 03372306015	Andrew Pratt Heavy		Massey	Snowman	Gnat		89	+102	+0		196	95	+918	-0.10	-0.14	-0.01	+29	+18	+41	+147	-20	-3	82	+288	108	97	102	99	105	99	98	89	103	104	106	98	104													
AWE	BE 159817416	Superfit Des Minieres		Super	Shottle	Gint		82	+102	-5		15	92	+330	+0.01	-0.13	+0.00	+15	+0	+15	+36	-5	+17	73	+414	102	104	105	98	100	102	102	81	92	98	107	97	99													
WWS	US 70594754	Melary Robust Miles		Roylane Socra	Shot AI	Nat		81	+101	-5		31	84	+1010	+0.20	+0.05	+0.04	+63	+30	+50	+270	-5	+48	79	+58	95	97	103	96	99	100	104	77	98	97	102	100	100													
Tot	US 70476887	Buttview Playball		Altaiota	Planet	Nat		77	+101	+2		22	85	+1009	-0.24	+0.05	+0.07	+19	+30	+53	+179	+0	-31	72	+141	102	103	104	103	96	102	99	82	102	104	100	98	100													
Adv	NL 765751469	Molenkamp Rita Moises		Montross	Meridian	Gint		78	+101	+3		49	88	+1135	-0.14	-0.23	+0.04	+34	+17	+56	+158	-4	-23	69	+316	100	101	102	100	105	110	99	84	+102	104	110	98	105													
Dek	CA 12076373	Gillette Malcom		Silver	Shotglass	Nat		75	+101	+5		20	84	+571	-0.01	-0.02	+0.12	+28	+18	+37	+133	+15	-28	68	+263	100	99	103	95	103	101	102	83	100	105	107	104	107													
STG	US 3125201935	Edg Defend Brecker 18191-Et	RF	Defender	Supersire	Int		76	+100	+5		23	90	+851	+0.05	+0.04	-0.01	+32	+28	+29	+183	+3	-5	64	+103	100	103	101	98	105	107	96	72	99	101	110	97	104													
Tot	NL 665165320	Hbc Silver Chelsea		Silver	Supersire	Gint		80	+100	+15		62	89	+448	+0.07	-0.06	+0.16	+34	+17	+45	+155	+24	-33	72	+175	99	102	106	99	104	103	98	84	+102	106	106	102	106													
Adv	NL 947618726	Barnkamp Marilyn Douglas Et		Doorman	Dempsey	Gnat 2n		91	+100	-4		350	96	+965	-0.41	-0.07	+0.03	+1	+27	+47	+127	-9	-42	84	+240	105	102	95	95	102	99	98	94	103	103	116	97	108													
CRV	NL 710409645	Bosgoed Legende		Legend	Jubland	Nat		98	+100	+0		2618	99	+75	+0.13	+0.27	+0.00	+8	+21	+3	+102	-4	-3	97	+78	100	108	100	103	94	99	104	99	98	98	88	104	95													
Sem	CA 11696748	Stantons Entitie	RF	Dymenholm S	Man-O-Man	Nat		80	+100	+0		33	88	+1068	-0.51	-0.26	-0.06	+5	+11	+43	+48	-2	-14	73	+220	96	105	101	107	98	100	107	89	95	100	107	104	104													
CRV	NL 532128958	Capa Sunset		Diamond	Goldwyn	Nat		98	+100	-5		3402	99	+10	-0.05	+0.00	-0.10	+6	-1	+7	+15	-1	-4	99	+367	104	106	102	105	100	102	105	91	94	107	94	107	87													
ABS	NL 680855332	Kap Superbol	RF	Bolus	Badger-Bluff Fa	Nat		80	+100	-1		67	89	-39	-0.11	-0.03	-0.08	+15	+5	+5	+46	-1	-14	72	+438	106	104	100	99	100	96	101	84	100	104	103	106														
CRV	US 3014559865	Wa-Del Als Butler Et		Montross	Massey	Nat		88	+99	-5		338	92	+734	-0.57	-0.07	+0.15	+13	+53	+36	+273	+14	-43	77	+378	100	100	98	107	105	94	90	100	104	110	91	101														
CRV	NL 948106260	Newhouse Skyfall		G-Force	Goldwyn	Gnat		97	+99	-16		4968	99	+677	-0.03	-0.17	+0.06	+26	+40	+25	+26	+14	-14	94	+227	96	101	93	106	99	96	104	99	104	104	101	100	102													
Sem	US 73191328	Regancort Merjak		Main Event	McCutchten	Nat		78	+99	+4		69	85	+764	-0.01	-0.11	-0.02	+31	+16	+37	+142	-2	-1	74	+152	101	100	103	98	100	106	77	94	100	113	99	105														
Sem	DE 0121489945	Walnutlawn Sunlight		Commander	McCutchten	Nat		81	+99	-2		72	86	+327	+0.20	-0.03	-0.07	+32	+14	+21	+131	-7	-21	70	+79	101	103	102	90	106	99	100	82	100	103	112	99	106													
Vek	NL 880207746	Vekis Dvh Preston		Mardi Gras	Maxim	Nat		90	+99	+6		517	95	+258	+0.12	-0.02	+0.20	+22	+7	+30	+84	-2	-36	82	+202	100	104	91	100	104	105	93	100	101	110	99	105														
OBS	DE 0357565192	Alban		Album	Beau	Gint		79	+98	+2		22	85	+695	-0.15	+0.04	+0.14	+15	+28	+45	+160	+13	-36	68	+74	104	104	104	104	102	102	99	81	103	104	107	93	102													
WWS	CA 12111793	Mapel Wood Light My Fire		Altaiotclass	McCutchten	Nat		75	+98	-46		27	80	+626	-0.15	-0.12	-0.08	+21	+17	+45	+127	-32	+20	73	+238	102	100	103	96	105	106	78	97	99	113	96	104														
Dek	NL 871458481	Kossinkhoeve Joscha		Massey	Altaiota	Gint		82	+98	-4		63	91	+329	+0.12	-0.05	+0.12	+25	+7	+26	+89	-16	-33	73	+227	103	103	105	102	103	99	101	85	98	104	104	100	102													
Mas	DE 0355988713	Mozarella		Mogul	Destry	Gint		81	+98	-14		37	89	+178	+0.36	+0.14	+0.15	+24	+6	+5	+77	-2	-2	73	+316	100	101	107	101	102	108	100	84	99	103	113	100	107													
Alt	US 72013226	Sycroz Altaiobir		Altaiotak	Bookem	Int		78	+98	-32		18	89	+399	+0.05	-0.11	-0.00	+22	+4	+16	+68	-2	-2	66	+152	105	108	98	90	98	98	75	98	102	105	95	102														
Sem	US 3013924009	Progenies Pianist		Enforcer	Shema Jeeves	Nat 2n		81	+97	+7		76	88	+1845	-0.64	-0.20	+0.03	+10	+43	+87	+223	+71	-39	68	+264	96	103	100	105	105	98	101	78	102	105	106	95	102													
Alt	US 3129128755	Peak Altaiotto P	PO	Powerball P	McCutchten	Nat		81	+97	-12		147	88	+254	+0.21	+0.23	+0.11	+30	+30	+22	+193	-35	-14	71	+340	99	102	105	95	99	104	105	102	80	101	103	106	95	101												
WWS	US 3008568536	Rugg-Do Coman		Epic	Observer	Int		84	+97	-19		53	89	+1192	-0.50	-0.15	+0.00	+0	+26	+54	+123	-5	-42	76	+285	106	102	97	101	102	102	101	84	107	102	106	96	103													
K&L	DK 04786002573	Vh Onside Osmus		Dansire Officer	Exces	Int		83	+97	+13		28	90	+290	-0.09	+0.08	+0.00	+4	+17	+13	+82	+17	-73	75	+455	101	103	103	106	102	97	82	86	91	100	95	92														
Alt	US 68999416	Blue-Horizon Altaegddy		Badger-Bluff Fa	Planet	Int		84	+97	+2		24	91	+169	-0.31	-0.41	+0.00	+19	+0	+53	+56	+78	-20	-71	+324	103	105	100	97	103	103	99	83	99	104	106	100	103													
Alt	US 3131003450	S-S-I Altaiotago Et		Bolito	Bolito	Nat		80	+96	-9		251	87	+565	-0.16	-0.11	+0.14	+46	+19	+53	+190	-27	-52	71	+238	94	101	108	101	101	108	101	84	97	99	112	94	102													
Tot	NL 876060399	Ko-Gen Tarzan	DP	Mosley	Supersire	Gint		79	+96	-9		40	88	+533	-0.16	-0.08	+0.07	+8	+11	+31	+71	-21	-52	71	+429	101	103	103	103	97	105	101	98	84	102	104	114	99	108												
Bov	US 72127270	Mr Alphenagon Dagon		Mogul	Ronelee Toysto	Nat		79	+96	+15		45	85	+596	-0.13	-0.18	-0.02	+13	+4	+29	+52	+22	-17	67	+158	99	105	106	97	98	104	104	88	102	103	115	105	112													
WWS	US 3010660326	Siemars Mogul Pety		Mogul	Explode	Nat		87	+96	+0		162	91	+400	-0.03	-0.12	+0.09	+14	+3	+27	+50	+17	+31	83	+199	100	102	106	98	101	110	101	90	96	99	113	101	106													
Alt	US 58912079	Melary Altalex		Altasuplex	Roylane Socra	Int		86	+96	-5		40	93	+410	-0.20	-0.11	-0.01	-1	+4	+18	+20	+6	-48	77	+259	101	108	106	102	103	101	103	84	97	99	103	96	98													
CRV	NL 70346082	Mounfield Altamarvin		Bookem	Shottle	Int		79	+96	-2		18	90	+171	+0.13	-0.08	+0.01	+4	+13	-7	+47	-2	+10	62	+293	107	105	109	101	105	100	97	75	94	91	109	100	103													
CRV	NL 5885920601	Delta Daiyram		Whatsapp Rf	Stellando Rf	Gnat		89	+96	-9		309	94	+246	-0.10	+0.03	+0.00	-19	-6	+11	+68	-3	-7	79	+522	107	103	103	93	107	110	93	101	94	98	100	107	108	107												
Alt	US 3006559787	No-Fla Altaeverglade		Massey	O Man	Nat		97	+95	+16		3386	99	+95	+0.42	+0.18	+0.06	+42	+19	+10	+169	+1	-25	94	+86	105	102	107	102	100	100	99	99	101	104	97	96	97													
Tot	DE 0355036581	Benson		Bg	Ramos	Gint		77	+95	+3		19	86	-41	+0.37	+0.20	-0.08	+31	+16	-9	+128	+4	+52	71	+411	101	98	102	98	903	99	102	79	95	94	103	98	98													
CRV	NL 753113145	Quatro Patrick		Atlantic	Onedin	Gint		98	+95	+1		4075	99	+975	-0.36	-0.10	-0.17	+6	+24	+28	+119	+2	-15	97	+200	98	102	104	98	93	104	107	99	106	107	107	98	106													
K&L	DK 04165404818	Vh Bynke		Bismark	Ramos	Gint		82	+95	+15		15	85	+354	-0.23	-0.07	+0.00	-6	+6	+16	+17	+17	+19	70	+343	102	105	105	100	103	103	101	79	94	97	102	100	99													
WWS	CA 11596115	Stantons Camaro		Epic	Badger-Bluff Fa	Int																																													

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

Perspublicatie stierindexen Zwartbont

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	Gab	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			
Melkdoel Zwart																																						
Alt	CA 11569683		Cedarwal Altaexchange	Mogul	Man-O-Man	Int	81	+83	+6	29	91	+1334	-0.48	-0.31	-0.01	+8	+15	+60	+96	+2	+20	64	+259	93	105	105	104	105	106	105	73	97	101	107	96	101		
Sem	US 3124671689		View-Home Albania	Defender	Mccutchen	Int	83	+83	+5	33	92	+1048	-0.28	-0.38	-0.01	+17	-1	+47	+46	+13	+8	75	+284	102	100	104	100	107	107		86	99	98	113	100	106		
CRV	US 70803531		Appealing H Copernicus	Shema Jeeves	Dolce	Gint	76	+83	-20	20	85	+1280	-0.83	-0.45	+0.07	-30	-1	+66	-47	-8	+11	68	+606	108	102	103	98	106	98	99	79	103	104	107	96	103		
CRV	NL 610971152		Horst Allard	Hunter	Fidelity	Gnat	93	+82	-2	572	97	-8	+0.31	+0.41	+0.00	+27	+36	+0	+204	-76	+5	89	+135	97	101	100	96	109	99	98	96	98	101	106	104	105		
UK	388380700235		Merandy	Meridian	Man-O-Man	Gint	86	+82	+4	49	91	+1625	-0.50	-0.26	+0.07	+17	+29	+82	+79	+8	+1	75	+148	99	99	100	98	100	105	102	89	100	101	104	99	102		
GGI	DE 0684127354		Maserati	Man-O-Man	Windy Knoll Vie	Nat	88	+82	-1	103	92	+396	+0.06	-0.04	+0.11	+22	+10	+28	+96	+7	+26	82	+53	104	103	104	103	102	98	102	93	103	106	105	96	102		
WWS	US 3009554422		S-S-1 Tape Overbay	Pine-Tree Brian	Man-O-Man	Nat	76	+82	-12	20	83	+189	+0.08	-0.03	+0.02	+15	+4	+10	+51	-79	+33	77	+390	106	98	101	107	101	102	100	77	91	98	107	98	100		
CRV	NL 523359223		Delta Bombay	Jardin	Shottle	Gnat	98	+82	+3	4042	99	-75	-0.12	+0.10	-0.04	-14	+6	-7	-7	+0	+6	97	+48	101	105	103	100	107	99	105	99	99	99	103	106	104		
Mas	DE 1603294735		Mccoy	Mccutchen	Atwood	Gint	84	+81	+1	39	89	+1443	-0.31	-0.26	-0.02	+29	+23	+64	+174	+0	+28	72	+51	100	99	102	99	104	103	98	82	95	97	115	95	103		
Alt	US 70396874		Bush-Bros Altabgood	Roylane Socra	Massey	Nat	84	+81	-7	93	89	+604	+0.05	+0.04	-0.02	+30	+25	+26	+173	-9	-10	79	+281	98	99	103	99	106	109	98	84	98	100	106	99	102		
Mas	DE 0359223691		Buenas	Bueno	Tribune	Gnat	77	+81	-22	100	87	+484	+0.04	+0.10	-0.02	+17	+26	+20	+148	-51	-83	67	+223	100	103	94	101	96	99	105	83	104	102	103	99	103		
Tot	UK 581440702867		Leipemetics Goody	Goodwhone	Suden	Nat	66	+80	-1	33	77	+566	+0.00	-0.10	+0.00	+24	+10	+26	+69	-31	+47	58	+166	90	103	103	102	106	106	99	86	96	105	99	99	100		
WWE	US 68767089		Morningview Marcelon Cri	Badger-Bluff Fa	Shottle	Int	85	+80	-18	23	91	+1061	-0.23	-0.29	+0.00	+18	+3	+48	+85	-36	-8	77	+243	103	102	103	97	101	100	99	100	104	98	100	104	98	100	
Alt	NL 970146623		Ramos	Rudolph	Ambition	Nat	98	+80	+0	3045	99	-590	+0.06	+0.07	-0.11	-20	-26	-36	-159	+0	-3	99	+497	107	106	107	104	99	100	104	99	91	97	104	101	100		
AWL	NL 882493602		Dastin	Danillo	Planet	Gnat	90	+79	+4	205	95	+437	-0.08	-0.01	+0.00	+11	+14	+20	+89	+0	+15	81	+96	101	100	106	101	96	100	101	86	103	102	100	104	103		
Alt	US 72383498		Ri-Va-Re Salsa	Cashwin	Ri-Va-Re Macg	Nat	2n	69	+79	-5	23	79	-181	-0.28	-0.10	+0.08	+15	+15	-1	-30	-7	+39	64	+258	106	106	100	100	100	101	99	72	95	96	107	95	99	
CRV	NL 474825497		Delta Persuader	Mascol	Dustin	Gnat	98	+79	+0	16928	99	+74	-0.27	-0.02	+0.03	-21	+1	+6	-38	+0	+21	99	+213	105	105	103	99	94	96	99	99	99	98	94	107	100		
Alt	US 73953426		Bomaz Altapurity	Pure	Altapok	Int	78	+78	+15	29	89	+1117	-0.01	-0.11	+0.00	+48	+28	+51	+231	+6	+31	70	+243	99	96	99	99	104	103	98	64	91	99	102	98	97		
Sem	IT 029990039165		Bovo Bomba	Doorman	Super	Nat	87	+78	-26	345	94	+542	-0.03	-0.09	+0.00	+20	+27	+25	+160	-39	-104	78	+114	103	101	98	97	98	93	101	91	105	103	113	96	107		
Sem	US 142289925		Ludervin Muscadet	Mogul	Jeeves	Nat	90	+78	+0	435	96	+533	-0.07	-0.02	-0.07	+16	+17	+18	+109	-3	+9	82	+262	100	104	103	102	107	108	95	93	100	100	111	93	102		
Ves	IT 019990773631		Royal Ideava Mulligan	Planet	O Man	Nat	92	+78	+2	491	97	+118	-0.21	-0.14	+0.05	-14	-8	+10	-59	-9	+1	86	+562	105	106	101	100	104	100	101	89	97	103	99	98	98		
Alt	US 3126872603		Peak Altas	Camaro	Mogul	Nat	83	+78	-19	133	92	+300	+0.04	-0.10	+0.13	-5	-16	-2	-76	-12	+45	72	+539	104	103	104	101	98	104	104	79	100	105	111	100	107		
Mas	NL 871871330		Td Natasia	Galaxy	Stol Joc	Gnat	84	+77	-27	51	90	+1294	-0.31	-0.12	+0.06	+23	+33	+65	+203	-29	-17	72	+98	102	98	101	101	103	99	95	83	101	105	106	99	104		
ABS	US 61980877		Coppertop Doberman	Shottle	Granger	Nat	98	+77	+2	3703	99	+545	+0.07	+0.03	+0.26	+30	+22	+49	+168	+4	+60	99	+111	104	98	100	101	105	96	101	99	94	94	102	93	95		
GSI	DE 0369552537		Faun	Francis	Mascol	Gnat	86	+77	-34	214	93	+228	-0.19	-0.05	+0.03	-4	+3	+13	-8	+4	+10	77	+360	102	101	104	103	100	108	105	102	90	103	102	104	102	104	
Sem	NL 969096292		K D Kh Cinderdoor	Doorman	Altaiota	Nat	92	+76	-6	677	97	+1249	-0.35	-0.11	+0.02	+18	+32	+59	+187	-18	-12	85	+143	103	99	103	98	101	99	97	95	100	100	109	97	103		
Sem	CA 11538453		Benner Slade	Doorman	Snowman	Nat	2n	89	+76	-7	244	94	+973	-0.16	-0.06	+0.00	+26	+28	+44	+183	-3	-58	78	+105	95	98	100	98	102	96	98	88	103	106	112	95	106	
WWS	US 72190767		Plain-Knoll Dona Bayonet	Donatello	Shamrock	Nat	84	+76	+8	50	88	+1122	-0.28	-0.16	+0.13	-19	+23	+64	+153	+28	+26	78	+218	95	104	92	100	104	107	103	78	100	101	104	97	101		
Alt	US 313483456		Butterview Altatoken	Monteross	Montross	Int	77	+76	+3	50	89	+423	+0.09	-0.04	+0.00	+26	+18	+19	+134	+21	+11	66	+185	96	103	104	97	106	105	101	78	97	101	111	94	102		
WWS	US 68988032		Ladys-Manor Rd Grafeeti	Badger-Bluff Fa	Goldwyn	Int	89	+76	+8	56	94	+387	+0.26	-0.04	-0.01	+40	+10	+17	+130	+2	+1	84	+40	99	99	104	98	102	107	101	83	100	102	108	102	106		
K&L	FR 6413261080		Hendrix	Levi	Shottle	Gnat	80	+76	+7	27	88	+841	-0.45	-0.19	-0.05	-3	+11	+34	+38	+0	-25	73	+274	104	101	101	104	101	102	103	84	96	102	107	99	102		
GGI	DE 0538269227		Anamur	Anton	Bogart	Gnat	84	+76	-14	51	90	+497	-0.32	-0.15	+0.05	-9	+3	+27	+2	+20	+42	70	+263	104	104	96	99	104	100	104	82	104	107	111	99	108		
Sem	CA 12379966		Progenesis Takeoff	Elude	Altsgo	Nat	72	+75	+5	67	83	+934	-0.32	-0.18	+0.05	+8	+15	+48	+93	-27	-25	64	+228	100	102	96	95	98	103	78	101	101	111	100	106			
Sam	NL 664359977		Apina Expert PP	Exploding Star	Kanu P	Nat	71	+75	+0	82	82	-111	-0.03	+0.01	+0.10	-7	-3	+4	-26	-17	+63	62	+640	110	98	101	101	100	101	98	69	95	91	106	94	97		
K&L	DK 03013602027		Dansire Shottle Sol	Shottle	T Funkis	Nat	98	+75	+6	2889	99	+418	+0.23	+0.07	+0.02	+2	-9	-17	-38	+2	-11	97	+332	103	106	103	102	104	98	104	99	97	97	101	98			
ABS	US 57187010		Larcresst Conquest	Gerard	Ramos	Nat	90	+74	-6	244	95	+1078	-0.21	-0.16	+0.04	+25	+22	+53	+159	+5	+7	84	+226	102	101	101	100	91	96	100	92	103	105	110	93	103		
ABS	US 3124720424		Seagull-Bay Slvr Kimbal	Silver	Numero Uno	Nat	84	+74	-2	173	91	+174	+0.35	-0.03	-0.09	+39	+3	+16	+99	+26	-3	75	+263	100	103	103	101	105	109	97	88	98	103	115	92	104</		

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

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	Gab	KA	MS	Kgh	Bt	F	T	U	B	Ext			
Ai Bull number	Bull name	Her-fact	Sire	MGS	S N	Rel	NVI	+/-	daus	Bt	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			
Melkdoel Zwart																																						
CRV NL 582559945	Delta Cupido		Wonder	Paramount	Gnat	98	+65	+7	5147	99	-83	-0,36	-0,09	+0,09	-35	-11	+4	-117	+7	+12	99	+660	106	106	102	97	105	96	96	99	99	100	106	97	101			
ABS US 71592921	Lady-Manor Graf La-Bron		Grafeeti	Super	Nat	82	+64	+8	39	84	+518	+0,11	-0,18	-0,05	+32	+1	+19	+77	+37	+12	78	+302	102	100	102	93	101	106	101	86	99	100	103	96	99			
CRV NL 520813625	Newhouse Ubrox		Bertli	O Man	Gnat	98	+64	-9	2165	99	-446	+0,34	+0,23	+0,04	+10	+4	-17	+32	-2	+28	97	-50	105	106	95	103	95	101	108	99	100	103	104	96	100			
Alt US 62959880	Beyercrest Alteliante		Ramos	Moto	Gnat	98	+64	-7	3791	99	-232	+0,23	+0,06	+0,00	+10	-3	-11	+5	+6	+37	99	+168	104	105	105	98	98	98	98	99	92	94	98	95	93			
Kam NL 519590898	Heuvel Suarez		O Man	Cello	Gnat	98	+64	-4	6053	99	-950	+0,55	+0,34	+0,03	+3	-6	-41	-31	+0	-7	99	+120	99	108	99	107	100	99	107	99	94	101	101	99	99			
Sem US 140924073	Brandt-View Police		Gerard	Planet	Nat	87	+63	-7	107	92	+448	-0,12	-0,11	+0,11	+8	+5	+31	+47	+2	-27	81	+151	101	103	100	107	99	102	104	90	101	105	108	97	104			
Sem CA 108109390	Blondin Integral	RF	Dymenholm S	Shottle	Nat	86	+63	-2	119	93	-361	+0,57	-0,08	+0,05	+33	-19	-12	-12	-5	-49	77	-61	106	104	103	99	94	101	102	87	102	106	111	100	107			
GGI DE 0769602080	Ferrari		Badger-Bluff Fa	Goldwyn	Gnat	89	+62	-7	94	94	+362	+0,00	-0,07	+0,04	+15	+6	+20	+62	+5	+14	81	+175	101	99	102	100	103	105	102	87	98	101	107	100	103			
CRV NL 644363725	Big Spell		Bertli	Ramos	Gnat	98	+62	+7	4212	99	-581	+0,53	+0,23	-0,09	+19	+1	-34	+26	-4	-22	97	+168	106	102	93	101	97	100	99	99	94	103	108	101	103			
ABS US 74024967	Pine-Tree Firefly		Woodcrest Mor	Supersire	Nat	80	+61	-55	228	87	-777	+1,23	+0,47	-0,04	+66	+11	-39	+172	-25	+26	71	+48	102	96	104	113	107	101	99	87	102	102	104	96	101			
ABS US 135650545	Wa-Del Junction		O Man	Convincer	Int	88	+61	-7	36	93	+164	+0,42	+0,07	-0,01	+45	+12	+7	+146	-6	+16	83	+48	98	103	103	106	100	93	102	88	100	99	94	98	96			
CRV NL 622692562	Visstein K&I Pablo		Placid	Big Point	Gnat	86	+61	-9	583	91	-323	+0,61	+0,19	-0,04	+38	+5	-18	+95	-47	-32	77	-18	102	101	98	100	95	106	95	106	100	102	100	105				
GGI DE 0538629942	Marker P	PO	Mardi Gras	Ladd P Red	Gint	78	+61	-50	15	83	+353	+0,02	-0,09	+0,10	+17	+4	+5	+66	-6	-1	72	+256	97	102	101	103	101	102	102	79	100	102	112	97	105			
CRV NL 949247382	Fievo Genetics Whatsapp		Supersire	Super	Gnat	96	+61	+7	743	99	-132	+0,39	+0,17	-0,02	+18	-26	-53	-160	-2	-7	93	+474	103	108	104	109	108	102	105	98	93	99	110	95	100			
Sam NL 887310382	Topseed Samoa	RF	Stadel	Nat	2n	89	+60	-4	246	95	-233	+0,25	+0,15	+0,01	+12	+5	-10	+34	+7	+1	82	+589	101	98	99	100	100	96	102	84	96	100	96	102	98			
GGI NL 425598456	Lek		Laudan	Jocko	Nat	98	+60	-7	3108	99	-359	+0,45	-0,14	-0,08	-26	+0	+9	+52	-6	-13	97	+536	103	100	105	100	98	100	104	99	98	100	96	104	99			
CRV NL 757800727	Saliste	PO	Epico	Emerson	Gint	85	+59	-7	152	88	-375	+0,02	-0,02	+0,05	+1	-15	-32	-36	-1	-13	72	+315	99	99	103	102	102	105	95	92	98	100	107	97	103			
Mas US 69092908	Rosylane-Llc Altabowie		Bowser	Ramos	Nat	81	+58	-14	35	83	+1101	-0,58	-0,26	+0,01	-11	+12	+51	+41	-18	-23	79	+239	98	104	106	109	99	103	100	82	93	96	105	95	97	101		
Mas US 70346561	Originator		Co-Op O-Style	C Planet	Gint	80	+58	-4	16	86	+792	-0,37	-0,28	+0,00	-2	+1	+36	+11	+12	-43	69	+313	104	101	101	99	103	98	103	80	104	107	108	97	105			
SZO IT 033990193210	Castelbosco P Harcos		Planet	Shottle	Int	84	+58	-7	70	92	+507	-0,27	-0,22	+0,00	-4	-3	-23	-14	-3	-12	77	+561	103	102	98	100	105	102	98	75	96	103	104	99	101			
GGI DE 0538431065	Ohio P	PO	Ohare-P	Epico	Gint	81	+57	-5	20	86	+1517	-0,49	-0,35	-0,01	+14	+17	+68	+120	+1	+17	69	+267	97	99	102	101	100	101	101	80	103	102	103	98	102			
Sem CA 11278908	JK Eder-I Control		Snowman	Bolton	Nat	96	+57	-2	1486	99	+877	-0,32	-0,15	+0,05	+6	+16	+35	+89	+0	-40	92	+240	104	97	101	94	99	96	101	97	105	103	108	98	105			
Alt US 61898306	Regancrest Altaiota		O Man	Convincer	Nat	98	+56	-6	14009	99	-650	-0,03	-0,09	-0,20	+25	+14	+49	+125	-4	-29	98	+175	97	105	104	101	98	104	100	99	104	105	103	99	102			
WWS US 71129534	Mr. Welcome Ssi Uno Tatum		Numero Uno	Colby	Int	81	+56	-25	33	88	+649	-0,17	-0,20	+0,01	+11	+4	+29	+48	-55	+11	76	-74	102	104	103	99	104	102	100	81	99	99	110	95	102			
Sem CA 104854291	Gen-J-Bq Brawler		Altabaxter	Shottle	Nat	98	+56	-7	7467	99	+178	-0,07	+0,01	+0,04	+1	+7	+12	+34	-3	-4	99	+325	100	103	103	96	106	101	96	99	103	101	106	98	103			
GGI DE 1501045200	Dessau		Duke	Shottle	Gint	84	+55	-7	35	93	+342	+0,09	-0,06	-0,05	+23	+6	+11	+76	-3	-2	77	+96	103	100	98	97	99	98	102	84	101	101	103	99	102			
Sem CA 107567492	Croteau Lasperron Unix		Numero Uno	Ronelei Toysto	Nat	93	+55	-3	1041	97	+953	-0,23	-0,28	+0,02	+18	+6	+45	+76	+15	+1	86	+3	99	102	106	104	103	102	100	97	103	100	113	95	105			
Gex US 72013148	Syrzyuk Petrone Mad Max		Welcome Supe	Dorcy	Nat	79	+55	+9	37	81	+644	-0,50	-0,14	+0,05	-20	+9	+34	+5	+21	-16	76	+349	106	99	100	98	102	101	100	84	96	101	108	98	102			
Toe NL 929748592	Mars Repro Ippon		Perfect Aiko	San Florano Ste	Nat	88	+54	-9	253	95	-195	+0,35	+0,23	-0,07	+35	+24	+11	+175	+73	+18	81	+76	101	97	101	96	98	101	99	95	95	102	106	94	99			
OBS DE 0355203318	Platin		Plan Z	Man-O-Man	Gint	79	+54	-18	18	87	+812	-0,20	-0,03	+0,09	+15	+25	+46	+148	-7	-2	71	+245	96	98	103	97	102	105	102	82	96	100	104	97	99			
Alt DE 0535571556	Alta Caesar		Planet	Shottle	Nat	98	+54	-8	6655	99	+210	+0,16	+0,12	+0,00	+23	+18	+10	+125	+0	-60	99	-50	101	105	98	97	106	98	99	103	103	103	103	105				
Kam NL 469960884	De Biew Kindness		Shottle	Emerson	Nat	97	+54	-7	2286	99	+260	+0,14	-0,14	+0,05	+24	+4	+18	+39	-7	-37	97	+391	104	98	97	100	99	97	105	99	99	101	104	99	101			
Gex US 69398736	Mountfield Sequoia Mel		Sequoia	Shottle	Int	82	+54	+7	29	91	-511	+0,31	+0,11	+0,00	+4	-9	-23	-35	+13	-1	78	+203	107	103	104	100	106	99	99	74	100	101	102	97	103			
OBS DE 0355936991	Reinermann Ruffel Genial		Genesis	Super	Gint	78	+53	-5	29	87	+1034	-0,37	-0,11	+0,04	+7	+25	+51	+133	-4	-10	69	+328	96	100	91	97	93	103	102	80	98	102	105	99	102			
Alt US 1325475825	Peak Altaz 28		Camaro	Roylane Socra	Nat	92	+53	-2	776	97	+154	-0,12	-0,03	-0,04	-4	-3	+11	+7	+17	-27	84	+434	96	101	104	95	105	111	102	93	101	104	108	102	100			
Ves IT 019990749294	Pirola Planet Mufasa		Planet	O Man	Nat	94	+53	+4	1029	98	-85	-0,12	-0,03	+0,11	-14	-6	+6	-52	-15	-10	89	+384	104	102	103	102	105	99	102	94	101	99	99	100	100			
WWS US 69791511	Morningview Mgt Uptown		Mogul	Super	Int	81	+52	-14	63	90	+523	-0,11	-0,26	+0,01	+12	-6	+23	+8	-43	-24	76	+131	104	102	103	97	105	102	81	102	103	110	97	104				
CRV NL 466101738	Slotboom's Pilot		Mascol	Jocko	Gnat	98	+51	+7	15674	99	+117	-0,05	-0,02	-0,04	-4</																							

$$NVIdubbeldoel = 0,35 \cdot I_{net} + 0,09 \cdot I_{vd} + 5,2 \cdot UGH + 5,2 \cdot VRU + 5,2 \cdot U_{ier} + 6 \cdot \text{Beenwerk} + 2 \cdot GEB + 5,2 \cdot VLi$$

Augustus 2021

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