

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

NVI/melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*VLI

Perspublicatie stierindexen Zwartbont

April 2023

Ki Stiernummer	Stiernaam	Erf-fact	Vader	M-vader	B N	Bt NVI	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-fact	Sire	MGS	S N	Rel	NVI +/-	daus	Rel	%F	%P	%L	kgF	kgP	KgI	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Tem	MS	CLW	Rel	F	DS	U	R&L	T			
Melkdoel Zwart																																				
CRV	NL 671125486		Finder	G-Force	Gnat	91	+308	+17	421	96	+1389	-0,17	-0,17	+0,05	+42	+31	+69	+236	+49	+83	83	+850	108	104	108	104	102	96	108	97	95	98	104	105	103	
CRV	NL 895652300		Carnation Benello	Balisto	Gnat	90	+286	+19	508	96	+730	+0,04	+0,04	+0,06	+35	+29	+39	+204	+23	+34	83	+727	110	106	105	102	101	97	107	96	98	98	105	105	104	
CRV	NL 547123774		Delta Salinero	Rush Hour Cd	Gnat Gn	83	+282	+86	489	90	+1495	+0,14	+0,12	+0,04	+49	+64	+72	+387	+86	-11	75	+528	107	97	105	105	102	98	108	93	103	105	105	117	113	
CRV	NL 965020507		Willem's-Hoeve Woody	Ranger	Gnat Gn	83	+279	+42	432	89	+1808	+0,12	+0,04	+0,10	+89	+67	+93	+490	+29	+22	74	+453	105	96	102	101	102	96	105	94	104	103	111	106	111	
Alt	US 3138499077	RF	Peak Altaatuv	Salvatore Rc	Monterey	Nat	80	+277	+19	137	89	+2115	-0,12	-0,09	+0,40	+77	+64	+101	+454	+33	+18	71	+563	106	101	105	102	103	99	101	85	94	102	104	101	
Alt	US 73953444		Bomaz Altaatopshot	Supershot	Altaembassy	Nat	90	+271	+3	406	97	+1532	+0,22	+0,12	+0,03	+88	+66	+73	+477	+14	+23	85	+478	102	103	106	100	105	97	106	93	103	105	101	96	100
CRV	NL 885976393		Delta Frontline	Topgear	Gnat	87	+263	+20	314	94	+1648	-0,36	-0,11	-0,08	+32	+46	+67	+276	+29	+7	80	+586	108	102	104	100	98	96	108	94	101	105	105	106	107	
Alt	US 3140986351		Peak Altoahodh	Hotline	Montross	Nat	83	+255	+62	243	91	+2021	-0,14	-0,03	+0,12	+70	+67	+105	+453	+75	+44	73	+243	107	98	106	101	98	101	86	94	98	107	101	102	
CRV	NL 865710894		Midwolder Martin	Adorable	Penley	Gnat	86	+249	-15	588	92	+2192	-0,22	-0,07	+0,06	+69	+69	+94	+456	+14	+36	78	+379	100	100	99	101	105	106	106	96	103	104	107	104	107
CRV	NL 736287780		Weelder Esperanto	Final	G-Force	Gnat	87	+246	-8	3878	99	+1327	-0,20	-0,11	-0,05	+36	+36	+56	+236	+4	+72	95	+483	102	103	104	104	99	102	110	99	95	99	107	107	
Tot	NL 674527779		RetraiteHero Hero	Superhero	Montross	Gnat	78	+245	+29	72	89	+1301	-0,11	+0,10	+0,12	+66	+55	+72	+386	+26	+46	70	+459	104	103	102	99	103	101	105	82	105	104	105	93	101
K&L	DK 0562204110		Vh Bube Bernell	Bube	Vh Tolstrupgaard	Gnat	93	+245	-6	1047	98	+905	-0,18	+0,01	+0,00	+21	+32	+41	+188	-7	+52	91	+564	104	105	108	101	100	97	110	96	95	96	102	105	103
Kam	NL 879035453		Weinterper Solution	Finder	Guard	Gnat	84	+243	-6	178	92	+1146	+0,30	+0,10	+0,02	+79	+50	+54	+387	+7	+10	76	+338	107	98	105	97	98	97	104	90	102	104	106	105	107
CRV	NL 648817776		Tirsvad Natan	Adagio-P	Doorsopen	Gnat Gn	78	+241	+53	337	88	+1787	-0,13	-0,09	-0,05	+62	+53	+76	+370	+74	-5	70	+122	104	104	103	100	97	94	104	88	98	103	109	103	106
CRV	NL 731719510		Willem's-Hoeve Rapper	Esperanto	Jetset	Gint Gn	75	+237	-19	26	85	+896	+0,29	-0,08	+0,02	+66	+39	+43	+311	-7	-12	70	+401	105	102	105	100	102	100	107	86	103	106	107	105	108
Kam	NL 648499303		Keopon Random	Ranger	Board	Gnat Gn	81	+234	+83	300	89	+1199	+0,30	+0,15	+0,04	+81	+57	+59	+422	+157	-8	74	+221	103	98	102	100	103	105	104	89	105	103	108	112	113
US	313064316		Endco Supreme	View-Home Ca	Platinum	Nat	76	+233	+38	28	80	+1675	-0,05	-0,03	-0,08	+66	+55	+85	+390	+57	+25	73	+551	109	100	101	98	96	97	107	87	97	100	102	94	97
CRV	NL 729539557		Weelder Empire	Bravo	G-Force	Gnat Zn	97	+232	+0	10131	99	+104	+0,41	+0,19	-0,01	+41	+21	+4	+173	+10	+54	95	+530	106	103	106	108	97	90	108	99	93	90	101	108	101
ABS	NL 742757381		K&I Oh Bellover	Altaatopshot	Silver	Nat	75	+231	+2	100	85	+679	+0,44	+0,25	+0,10	+71	+47	+41	+354	+7	+13	68	+438	103	102	102	99	103	99	104	82	98	102	107	102	104
CRV	NL 932189349		Delta Turnover	Benello	Paragon	Gnat Gn	83	+231	+28	559	90	+1247	+0,03	+0,01	-0,09	+56	+44	+48	+312	+30	+57	75	+489	103	100	105	102	102	99	105	91	100	99	103	105	104
Alt	US 3131664037		Peak Altaadep	Hotshot	Montross	Gnat	84	+230	+18	82	92	+438	+0,24	-0,08	+0,12	+41	+8	+31	+128	+42	+37	73	+568	114	108	105	101	95	92	98	85	96	99	102	97	98
Alt	US 3129037884	RF	Mr Salvatore	Supershot	Dymntholm S	Nat	90	+229	-9	207	97	+2099	-0,38	-0,31	+0,14	+47	+39	+11	+292	+3	+7	85	+450	108	103	102	104	103	94	105	94	99	106	108	95	104
OBS	DE 0360385508		Suprem	Superhero	Missouri	Gnat	79	+228	+11	124	89	+2692	-0,43	-0,21	+0,04	+64	+70	+127	+460	+4	+20	70	+383	102	104	101	97	102	99	101	86	103	103	101	92	98
Mas	DE 1405290977		Topmodel	Altaatopshot	Silver	Gint	79	+226	+40	186	88	+810	+0,50	+0,22	+0,11	+83	+49	+48	+390	+44	-18	70	+337	100	103	104	101	104	97	106	87	102	105	107	102	106
CRV	NL 946221484		Delta Treasure	Finder	G-Force	Gnat	96	+225	+7	3006	98	+347	-0,06	-0,04	+0,03	+20	+8	+19	+81	-3	+39	90	+633	107	108	107	105	105	99	101	99	93	97	108	105	104
CRV	NL 753556472		Delta Castor	Barclay	Atlantic	Gnat	93	+223	+25	1905	96	+1101	-0,04	+0,23	-0,09	+43	+61	+41	+353	+45	+52	86	+190	102	101	102	98	102	97	107	99	100	102	105	103	105
Alt	US 72615089		Bomaz Altabanco	Donatello	Rmw Armitage	Nat	86	+222	+11	108	94	+1117	-0,01	-0,04	-0,02	+46	+35	+49	+255	+12	+17	83	+403	104	109	101	97	100	102	105	86	98	101	104	95	99
Sam	CA 12264628		Boldi V Gymnast	Doorsopen	Jadir	Nat Zn	50	+218	+3	473	97	+1926	-0,19	-0,08	+0,02	+51	+61	+90	+406	+28	-9	85	+322	105	101	104	94	101	95	99	94	98	103	110	96	103
ABS	US 3138277108		Cal-Roy-Al Yoda	Jedi	Woodcrest Mo	Gnat	87	+218	+39	394	94	+1249	+0,23	+0,04	+0,09	+76	+47	+66	+372	+38	+17	79	+446	102	100	106	101	108	102	100	92	101	103	110	100	106
ABS	US 3141494407		Als Zebedes	Spectre	Mr Mogul Delta	Nat	83	+217	+35	164	89	+1152	+0,52	+0,08	+0,10	+101	+48	+63	+428	+73	+16	71	+433	104	99	102	101	105	99	100	86	105	103	105	97	103
Mas	NL 715952290		Topstons	Altaatopshot	Rubicon	Gint	77	+217	-9	114	87	+1510	0,05	-0,01	-0,07	+59	+51	+76	+356	+7	+11	70	+388	101	101	105	97	98	98	105	86	104	106	107	101	106
STG	US 3138483258		Siemens Charley Merryguy	Dg Charley	Montross	Int	77	+216	+25	16	89	+2459	-0,25	-0,23	-0,00	+76	+59	+112	+435	+35	+9	72	+326	103	99	105	101	104	99	74	98	100	105	95	99	
Alt	NL 885695366		Peak Altazarak-Et	Altaatopshot	Rubicon	Nat	82	+215	+10	191	88	+1442	+0,25	+0,03	+0,10	+87	+53	+76	+423	+27	+49	70	+605	100	98	99	103	105	102	103	85	94	98	106	97	99
Tot	CA 126108416		Alexerin Charm	Dg Charley	Altaaspring	Gnat	80	+214	+16	212	90	+1717	-0,10	-0,01	+0,07	+62	+59	+66	+398	+12	+34	73	+163	104	103	105	102	102	97	103	87	98	101	101	92	96
Alt	US 3142181416		Peak Altaaba	Blowtorch	Rubicon	Gnat	77	+214	+35	154	87	+1440																								

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NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*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	R&L	T	
Melkdoel Zwart																																						
										pnt	Productie										€	€	Functioneel					Exterieur										
Ves	NL 595849688	Mars Frassino		Topgear	Missouri	Nat		79	+193	-3	197	88	+1197	-0,40	-0,04	-0,17	+11	+38	+38	+190	-2	-6	73	+651	107	102	97	97	92	87	107	84	99	103	99	106	103	
Kam	NL 754797894	Vandenbergh Niro		Bravo	Borussia	Gnat		81	+192	+24	111	90	+1181	+0,03	+0,12	+0,07	+53	+53	+61	+347	+27	+41	74	+300	107	98	103	103	99	97	96	86	99	100	104	100	102	
Dek	US 3128463273	Syrzycku Silvr Blwortoch		Silver	Altaoak	Nat		85	+192	+0	73	91	+886	-0,34	-0,03	-0,04	+71	+34	+37	+300	+17	-39	76	+314	106	105	103	98	102	100	97	87	102	105	108	98	105	
CRV	NL 667323913	Newhouse Jayvano	RF	Esperanto	Penley	Gnat		83	+192	-3	291	90	+831	-0,14	-0,14	+0,00	+22	+42	+38	+230	-10	+1	75	+391	102	104	106	103	101	101	104	92	96	101	104	104	103	
Tot	FR 5366624921	Drakkar Baylavo		Kingboy	Garrett	Gnat		84	+191	+19	98	93	+1371	-0,37	-0,19	-0,15	+20	+28	+47	+171	+11	+19	77	+350	105	106	110	99	100	92	103	86	96	98	103	98	99	
Sem	CA 12638218	Westcoast Alcove		Duke	Mvp	Nat		80	+190	+29	181	89	+1910	+0,18	-0,07	-0,04	+100	+59	+83	+477	+64	+17	72	+84	97	102	101	99	103	99	102	89	101	104	106	94	101	
STG	US 7128125	Edge Rubicon		Mogul	Roylane Socra	Nat		94	+190	+9	1091	99	+677	+0,60	+0,10	+0,14	+86	+33	+44	+329	+9	+19	94	+482	100	99	106	98	101	97	99	105	104	106	105	108		
GGI	DK 05609302452	Bonum		Balisto	Epic	Gnat		94	+190	+0	1115	98	+1247	-0,24	-0,12	-0,01	+29	+56	+56	+307	-16	+30	89	+489	104	97	102	104	105	100	103	96	103	103	109	99	106	
CRV	NL 687206696	Delta Concert		Crescendo	G-Force	Gnat		98	+190	+15	4457	99	+852	-0,10	-0,08	-0,02	+26	+22	+37	+156	+28	+78	87	+497	104	107	104	101	100	102	98	99	98	100	102	97	99	
CRV	NL 679611154	Delta Beatle		Commander	Fever	Gnat		93	+189	+1	367	98	+221	+0,39	+0,05	+0,15	+45	+3	+24	+114	+5	+24	90	+332	110	100	102	103	105	99	109	95	97	98	107	106	106	
WWS	US 3132923889	Penn-England Barclay		Bubba	Rubicon	Nat		74	+188	+12	67	81	+1369	+0,17	+0,03	-0,03	+75	+51	+59	+384	-23	+35	63	+456	97	104	104	104	102	105	96	77	100	104	95	99		
CRV	BE 313114634	Delta Magnet		Gafore	Titanium	Gnat		90	+188	+49	490	96	+1760	-0,57	-0,12	-0,04	+15	+49	+77	+256	+26	+36	83	+410	102	103	103	101	99	98	101	96	95	98	102	103	101	
Sem	CA 12719092	Progenis Dumbledore		Superhero	Kingboy	Nat		80	+188	+17	213	88	+1750	-0,45	-0,26	-0,08	+27	+33	+88	+218	+50	-2	69	+493	106	103	109	98	103	100	87	89	100	109	94	101		
CRV	NL 941050441	Delta Beatbox		Amigo	Fanatic	Gnat 2n		96	+187	+14	2158	99	+1061	+0,19	+0,12	+0,07	+64	+49	+42	+348	+27	+85	93	+191	100	99	104	102	98	104	106	99	101	99	98	99	99	
BGA	DE 0360817317	Gouverneur G Gigolo		Gymnast	Missouri	Gnat Gn		72	+187	+18	37	83	+824	+0,17	+0,15	-0,04	+51	+43	+34	+294	+7	+26	65	+303	104	103	99	100	100	99	101	79	101	101	105	98	102	
WWS	US 3138843085	Cherry-Lily Zip Luster-P	PO	Ocd Eraser Zipi	Kingboy	Nat		79	+187	+12	237	88	+1146	+0,10	-0,15	+0,19	+59	+25	+71	+248	+20	+22	69	+254	104	101	105	97	105	104	101	89	99	102	109	104	107	
Alt	US 3129037603	Endco Superhero		Supershot	Numero Uno	Nat		88	+187	+18	153	95	+997	-0,04	-0,04	+0,03	+38	+31	+48	+221	+18	-3	83	+315	103	105	105	99	103	103	107	93	103	104	107	96	103	
ABS	US 3134408139	De-Su 13530 Seville		Supershot	Mntross	Nat		89	+186	+7	524	96	+631	+0,18	+0,12	+0,12	+44	+33	+40	+240	+7	+30	82	+319	101	105	106	104	105	98	105	91	99	100	102	98	100	
Alt	US 69829746	Leone-Oak-Acres Altarabo-Et		Mogul	Observer	Nat		96	+186	-17	3449	99	+1083	-0,06	-0,19	+0,14	+40	+19	+63	+181	+4	+42	77	+403	108	102	101	102	106	103	99	99	100	101	107	102	105	
Alt	US 3126218670	Peak Altafeature		Altagenuity	Mccutchen	Nat		82	+186	+10	86	92	+1281	-0,45	-0,31	+0,17	+9	+13	+66	+95	-9	+31	77	+531	106	105	105	103	100	101	106	79	101	99	107	98	103	
Sem	US 3123600792	Progenis Proud		Deductive	Shema Jeeves	Nat		85	+185	-23	137	94	+2009	-0,48	-0,28	+0,05	+33	+39	+97	+258	-27	+8	81	+596	107	101	100	100	101	100	100	87	102	103	105	96	102	
Tot	US 3142041200	Mr Frazzled Aristocrat		Frazzled	Monterey	Nat		77	+185	+44	77	85	+1045	-0,03	-0,10	+0,01	+41	+26	+49	+207	+58	-7	66	+370	108	103	108	108	103	98	100	86	98	99	109	95	101	
DE	0539689841	Fighter		Finder	Racer	Gint		75	+184	+39	44	86	+1189	-0,11	+0,01	+0,09	+39	+42	+63	+273	+68	+31	70	+365	101	100	107	103	102	104	104	82	98	100	106	101	103	
Sem	US 3128769279	Stantons Alligator		Kingboy	Mccutchen	Int		85	+184	+5	118	92	+1439	-0,19	-0,21	-0,01	+42	+28	+65	+223	-9	+10	79	+154	105	104	105	99	99	98	103	92	99	103	111	100	106	
Alt	US 3142181298	Peak Altaeckey		Bourbon	Silver	Nat		72	+183	+17	86	85	+2234	-0,27	-0,17	+0,04	+65	+59	+107	+411	+13	+20	66	+243	99	102	102	97	98	103	74	99	101	105	94	99		
Alt	US 3136264642	Ocd Altasweg		Modesty	Bacon-Hill O M	Nat		90	+183	+26	542	96	+760	+0,44	+0,09	+0,14	+74	+35	+48	+313	+27	+30	83	+129	99	103	104	98	101	102	105	91	100	99	105	100	103	
ABS	US 3137878481	Bomaz Skywalker		Jedi	Cabrioleet	Nat		85	+183	-37	253	91	+825	+0,03	+0,19	+0,08	+38	+47	+45	+286	+58	+55	74	+387	95	105	106	105	103	107	104	91	94	96	109	93	99	
GGI	IT 028990352947	Simox		Supershot	Let It Snow	Gnat 2n		85	+183	+13	88	93	+1589	-0,44	-0,11	+0,08	+22	+44	+81	+251	+24	-42	77	+369	103	105	101	98	104	102	105	88	105	106	108	99	106	
Sam	NL 755898903	Cogent Supershot		Supersire	Super	Nat		96	+183	-8	818	99	+1623	-0,48	-0,13	+0,12	+19	+43	+87	+242	-12	+7	95	+373	103	104	104	104	101	105	95	105	99	107	105	101	99	103
Sem	CA 12529327	Progenis Topnotch		Jedi	Lottorax	Nat		72	+183	+16	22	82	+1179	-0,22	-0,06	-0,07	+28	+35	+61	+221	+1	-2	87	+587	104	104	106	98	107	96	101	81	103	103	110	92	102	
Tot	US 3138766402	Mr Charley Its Me		Dg Charley	Bombero	Nat		70	+182	+18	51	82	+1465	-0,05	-0,03	-0,10	+57	+48	+77	+340	+49	+47	64	+230	101	101	105	103	101	99	102	68	95	98	100	98	97	
ABS	US 3130010426	De-Su 13181 Quantum	CD	Supershot	Mogul	Nat		74	+182	+9	29	84	+1127	-0,12	-0,14	+0,11	+36	+53	+62	+312	+6	-22	70	+406	105	101	104	101	106	98	100	80	103	105	107	96	103	
Sem	NL 872396502	Vdr Slash		Balu	Walki	Gnat		93	+181	+0	3047	97	+1593	+0,16	+0,25	+0,17	+40	+44	+11	+268	+1	-7	88	+271	104	102	100	103	94	93	108	95	101	106	99	102	102	
CRV	BE 911953889	Dothoek Kingston		Jasper	Massey	Gnat		93	+180	+9	435	98	+952	-0,43	-0,07	-0,04	+2	+40	+40	+172	+8	+45	91	+358	106	104												

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

NVI/melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*VLI

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KI Stiernummer AI Bull number	Stiername Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B N S N	Bt Rel	NVI NVI	+/- +/-	dtrs daus	Bt Rel	kgM kgM	%/V %F	%E %P	%L %L	kgV kgF	kgE kgP	Kgl Kgl	INET INET	+/- +/-	BVK SFCM	Functioneel										Exterieur				
																					Bt	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	Ext	
Tot DE 0354449388	Boom		Bookem	Bogart	Gnal	88	+171	+13	178	96	+1278	-0,19	-0,12	+0,02	+35	+32	+60	+223	+9	+39	84	+62	106	105	104	104	106	99	98	86	103	100	105	97	102
Sem US 3141495129	Siemens Darwin		Supperho	Silver	Nat	85	+170	+24	358	91	+1216	+0,17	-0,06	-0,09	+69	+36	+65	+312	+55	-23	74	+221	101	102	102	100	100	102	101	92	103	105	111	100	107
CRV NL 883539231	Delta Fisherman		Accord	Missouri	Gnal	89	+170	+11	2333	93	+337	+0,47	+0,26	-0,09	+57	+36	+7	+269	+41	+10	81	+294	103	99	103	104	105	100	102	99	98	104	106	105	106
CRV NL 694388754	Skalsumer Pilates		Jetset	Danno	Gnal	93	+170	+16	937	98	+474	+0,37	+0,19	+0,03	+55	+34	+24	+262	+18	+13	88	+216	107	95	100	101	92	101	108	99	104	103	104	106	107
STIG US 3132352407	St Gen Superhero Swift		Superhero	Co-Op Day Luffe	Nat	74	+170	-27	49	82	+1298	-0,20	0,05	-0,08	+35	+40	+67	+258	+63	+11	82	+288	102	103	103	98	103	108	101	90	102	102	110	95	106
CRV NL 565113832	Velder Stormaker		Adorable	Mobile	Gnal	82	+170	+6	305	90	-699	+0,56	+0,36	+0,00	+16	+5	-32	+45	+46	-16	73	+402	107	105	105	98	107	96	107	92	102	105	106	107	108
ABS US 3135245753	Abs Eldridge		Jett	Davinci	Nat	80	+169	+31	137	90	+1181	-0,03	-0,02	+0,06	+47	+43	+60	+293	+41	-2	70	+305	100	106	106	103	107	100	100	82	104	103	103	93	100
MBS DE 0122212384	Barkeeper		Battlecry	Galaxy	Gnal	86	+169	+24	148	93	+1102	-0,44	-0,18	-0,06	+54	+20	+5	+176	+23	-5	76	+391	106	102	102	93	93	95	101	91	98	98	107	103	104
ABS US 3128557570	Abs Medley		Woodcrest Mo	Balisto	Gnal 2n	80	+168	+10	93	91	+1497	-0,08	-0,02	+0,09	+55	+50	+78	+344	+23	+14	72	+497	103	97	101	103	100	102	101	85	103	103	102	98	101
Alt US 73953344	Bomaz Altacapo		Altaprime	Roylane Socra	Nat 2n	84	+168	+14	128	93	+524	+0,15	+0,18	+0,01	+36	+35	+25	+227	+4	+5	77	+84	106	109	101	95	103	100	100	71	101	101	100	93	97
CRV US 3132381988	Crv-Delta Success		Altageunity	Jerod	Gnal	93	+168	-14	745	98	+463	-0,01	+0,11	+0,08	+19	+26	+29	+155	+2	+95	87	+424	101	103	104	104	98	101	106	97	89	84	106	93	94
CRV NL 889152469	Delta Abundant P	RF PO	Ranger	Fun P	Gnal	89	+168	+24	3750	92	+258	+0,25	+0,06	+0,22	+34	+14	+32	+138	+26	-41	84	+269	105	103	96	100	103	98	107	99	103	103	109	114	114
Tot NL 763906694	Breks Kemas		Mardi Gras	Bookem	Nat	78	+168	-4	57	89	-675	-0,12	-0,05	+0,15	+17	+19	+45	+127	-6	+33	74	+338	102	109	100	102	103	101	99	66	98	99	107	97	102
Alt CA 12415209	Pine-Tree-I Altapittire		Monterey	Supersire	Nat	82	+167	-6	161	92	+982	-0,14	-0,04	-0,01	+55	+30	+46	+252	+9	+13	74	+199	102	104	107	98	105	100	102	84	96	100	103	97	99
WWS US 3125066459	Welcome Legendary 2870		Damaris	Shema Jeeves	Nat	81	+167	-7	47	89	-103	+0,28	+0,03	+0,00	+20	-1	-5	+36	+0	+3	72	+429	106	111	101	95	103	98	104	85	98	100	106	97	101
CRV NL 561145280	Delta Freerider		Rocky	Gibor	Gnal	95	+167	-9	527	99	-324	+0,14	+0,23	-0,03	-2	+8	-17	+24	+6	+26	94	+624	111	106	105	108	100	96	104	97	95	100	100	101	99
Tot DE 0770497966	Nh Sunview Mitch		Kerrigan	Balisto	Gnal	82	+165	+75	221	91	+937	+0,40	+0,08	-0,02	+79	+40	+41	+342	+20	+41	73	+286	102	99	104	98	97	105	95	86	100	98	102	96	99
Alt US 3134408771	Peak Altacomfort		Monta	Monterey	Gnal	87	+165	+39	311	95	+1277	+0,00	-0,04	+0,06	+54	+40	+64	+297	+52	+56	79	+367	101	103	101	100	103	106	99	85	100	98	105	90	97
Sem CA 12719230	Progenesis Parachute		Superhero	Rubicon	Nat	81	+165	+32	156	88	+1033	-0,21	-0,06	+0,07	+65	+30	+54	+276	+42	+2	69	+263	98	103	103	102	98	99	106	87	103	104	107	99	105
Tot US 74345956	Hurgenlea Richard Charl		Dg Charley	Woodcrest Mo	Gnal	82	+165	-6	156	92	+1125	+0,13	-0,14	+0,04	+61	+25	+55	+247	-28	+110	74	+86	100	105	103	106	100	100	102	90	89	89	100	93	91
Bov US 73143748	Ronelea Midnight Detour		Midnight	Mogul	Nat	83	+165	+13	84	93	+907	-0,02	-0,04	-0,04	+40	+28	+38	+210	+5	+44	78	+183	103	104	104	101	96	106	100	86	94	94	109	96	100
CRV NL 620478904	Crejiland Tuner		Accord	Danno	Gnal Gn	78	+165	+19	135	87	+301	+0,32	+0,18	-0,06	+42	+27	+8	+201	+74	+9	70	+315	102	103	106	107	98	100	100	87	100	100	103	103	103
ABS US 3141559636	Denovo 14242 Kokomo		Blowtorch	Mr Mogul Delta	Nat	80	+165	+19	337	88	+1368	-0,17	-0,24	+0,02	+41	+23	+65	+200	+78	-10	71	+483	104	105	101	99	104	105	97	88	98	103	108	99	104
Sem CA 12529310	Progenesis Padawan		Jedi	Enforcer	Nat	78	+165	+21	32	85	+1408	-0,76	-0,04	+0,08	-18	+45	+73	+169	+8	-8	68	+635	104	107	101	102	99	94	99	82	100	102	106	93	100
WWS US 3131842689	Plain-Knoll S-S-I Jaguar		Josuper	Mogul	Gnal	87	+164	+32	191	94	+698	+0,43	+0,18	-0,11	+71	+41	+21	+324	+45	+17	78	+371	101	100	105	100	101	100	101	89	103	103	103	95	100
CRV BE 118490129	Vendairy Watchman		Corben	Silver	Gnal	87	+164	-2	559	93	+1008	+0,11	-0,09	-0,08	+54	+44	+54	+310	+23	-13	81	+95	100	101	102	102	94	99	105	96	100	104	111	100	106
K&L DK 04240505077	Vh Hedelund Charley Crown		Dg Charley	Silver	Gint	76	+164	-23	79	87	+1357	-0,05	-0,11	+0,02	+52	+36	+64	+276	+2	+49	69	+182	101	100	106	99	100	102	100	86	92	95	107	100	101
GGI DE 0538393143	Boad Et		Boss	Epic	Gnal	90	+164	+28	138	96	+981	-0,16	-0,01	+0,04	+26	+33	+49	+205	+13	+11	86	+410	104	100	104	100	106	105	93	102	103	104	101	104	
CRV NL 717948417	Delta Summit P	PO	Finder	Atlantic	Gnal	91	+164	+7	692	96	+116	+0,48	-0,12	-0,04	+38	+6	-2	+104	+30	-13	85	+324	105	102	105	104	103	97	111	97	102	100	102	108	106
Tot NL 678889750	Uhl-Stein Casey		Supershot	Mogul	Nat	77	+163	-18	56	88	+1149	-0,06	+0,01	+0,06	+43	+41	+58	+276	-27	-13	72	+193	103	103	102	103	103	97	104	117	103	103	100	100	101
Mas US 3135087031	Saber		Jedi	S-S-I Maurice	Gint	75	+163	+36	39	87	+1316	-0,41	+0,02	+0,19	+14	+48	+79	+250	+40	+10	69	+468	105	105	103	100	107	96	95	79	100	103	103	91	97
CRV NL 718437783	Delta Topgar		Malki	Solero	Gnal	96	+163	+4	1187	99	+770	+0,17	+0,02	-0,10	+12	+4	-6	+11	-2	-24	95	+479	110	103	100	101	93	89	111	98	101	107	101	113	109
ABS US 3014562044	Sandy Valley Gs Goldrush		Silver	Meridian	Nat	89	+162	-7	328	96	+1274	-0,02	-0,13	+0,16	+52	+31	+74	+259	+9	+30	83	+330	101	101	102	100	101	108	102	89	96	101	106	99	102
Sem DE 0539843407	Wildier Mark	RF	Apprentice	Supershot	Nat	77	+162	-5	72	84	+1495	-0,17	-0,21	+0,07	+46	+30	+76	+242	+10	+10	65	+361	99	104	106	100	104	99	102	82	103	102	106	100	104
CRV NL 665198319	Double W Rush Hour	CD	Final	Snowflver Cd	Gnal	96	+162	+3	1481	99	+279	+0,30	+0,29	+0,07	+39	+36	+19	+235	+7	-33	93	+384	104	97	105	107	102	95	103	99	103	106	103	113	110
WWS US 3008160969	No-Fla Emulate 30309																																		

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

NVI/melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*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	R&L	T	
Melkdoel Zwart									pnt												€	€	Functioneel					Exterieur									
US 3138766426	Co-Op Aardem Subzero		Blumenfeld Spr	Midnight	Int		73	+153	+9		33	88	+502	+0,31	+0,13	-0,01	+50	+30	+22	+235	+29	+37	67	+257	99	105	100	94	97	104	84	92	96	110	95	100	
GGI DK 03372306619	Dante		Danno	Bynke	Gnat		78	+153	+3		34	89	+1648	-0,53	-0,20	-0,02	+14	+36	+73	+199	-7	+39	73	+287	107	98	105	101	99	98	100	82	100	99	102	102	102
CRV NL 660160281	Delta Lustrum		Topgear	Let It Snow	Gnat		94	+153	+23		3160	97	+531	-0,07	+0,15	-0,06	+16	+33	+19	+175	+14	-12	88	+354	102	101	102	100	103	100	107	99	104	106	100	110	107
Alt US 3142181231	Peak Altamaur		Montana	Rubicon	Nat		84	+152	+53		761	91	+1129	+0,20	+0,03	+0,16	+68	+36	+68	+311	+73	-14	77	+454	98	102	101	98	99	110	102	90	101	102	104	97	101
Kam NL 935364071	Kik Divine		Supershot	Altaioeta	Gnat		85	+152	-6		283	93	+715	+0,23	+0,13	+0,05	+52	+37	+37	+272	-9	+5	78	+223	101	102	106	99	102	106	101	90	106	103	99	101	102
WWS US 3142352969	S-S-I Pr Frazid Firebird		Frazzled	Marty	Nat		84	+152	+8		339	89	+533	-0,10	+0,00	+0,03	+13	+19	+27	+113	+21	-40	73	+297	110	106	108	96	103	92	102	92	107	103	99	96	100
Alt US 3129128763	Peak Altatrueshot		Supershot	Mccutchen	Nat		93	+152	-7		1366	98	+36	+0,28	+0,09	+0,06	+29	+11	+10	+109	-24	-56	89	+435	104	108	108	102	104	99	107	94	105	105	103	99	103
CRV NL 678155101	Lowlands Lust		Concert	Danno	Gnat		90	+152	+12		612	95	+274	-0,04	+0,02	+0,07	+8	+11	+19	+68	+42	+20	82	+496	108	105	104	99	105	99	100	96	100	104	100	101	101
CRV NL 88570953	Delta Jens		Rush Hour Cd	Reflector	Gnat Gn		80	+152	-35		219	88	+109	+0,04	+0,10	+0,11	+1	+13	+15	+60	-99	-34	72	+675	107	101	102	105	104	97	105	89	104	105	108	106	109
WWS US 3132417775	Woodcrest King Doc		Kingboy	Mack	Nat		92	+151	+17		1201	97	+1570	-0,14	-0,12	-0,06	+52	+42	+65	+301	+28	-1	86	+150	99	103	101	98	100	101	100	98	96	101	108	99	103
CRV NL 883409376	Delta Fitness		Magister	Balisto	Gint		79	+151	+2		53	89	+1317	-0,36	-0,07	-0,07	+19	+39	+55	+216	+29	+26	73	+475	105	99	101	101	100	97	101	88	98	99	106	96	100
Kam NL 634309531	Rhala Ex Blackbush		Bushman	Balisto	Gnat		84	+151	-5		144	93	+1180	-0,22	-0,07	+0,02	+28	+34	+56	+215	-19	+4	75	+253	103	100	105	100	105	97	99	86	99	100	108	105	106
WWS US 74261651	Méarry Josuper Frazzled		Josuper	Shotglass	Nat		91	+151	+7		485	96	+1329	-0,16	-0,23	-0,09	+40	+23	+52	+194	+34	+23	82	+467	108	100	104	98	102	98	100	95	99	98	102	93	97
ABS US 3128557482	Abs Achiever		Woodcrest Mo	Altaembassy	Nat		79	+151	+14		58	89	+219	+0,08	+0,15	+0,13	+84	+5	+21	+191	+17	+44	71	+417	103	103	102	100	105	103	103	86	98	98	102	101	101
WWS US 70625809	De-Su Rooike 11057-E		Bookem	Bronco	Nat		92	+151	-17		492	98	+520	+0,29	-0,04	+0,03	+49	+14	+27	+168	-19	+28	90	+239	103	105	103	99	107	99	101	94	101	99	102	100	101
CRV NL 748138760	Delta Reporter		Skyfall	Belfast	Gnat		95	+151	-3		982	99	+543	-0,17	+0,14	+0,01	+7	+32	+26	+154	+2	+69	95	+190	100	104	101	100	91	97	108	99	101	100	98	103	101
Alt US 3145229960	Peak Altamorris		Duke	Rubicon	Nat		71	+150	+29		72	84	+1677	+0,07	-0,05	+0,02	+79	+53	+79	+407	+32	+34	66	+176	98	97	103	103	104	97	79	98	102	106	95	100	
Alt US 3129205459	Peak Altaumlet		Josuper	Mogul	Nat		92	+150	+27		668	98	+1413	-0,19	-0,14	+0,06	+40	+35	+71	+249	+41	+10	88	+334	102	101	100	98	105	101	100	93	103	104	108	99	105
Mas DE 035956232	Gga Keith		Kerrigan	Balisto	Gint		74	+150	-77		27	86	+1117	-0,16	-0,02	-0,02	+31	+41	+49	+248	-25	+23	67	+447	104	101	98	99	102	98	98	83	101	99	105	96	101
CRV NL 884786706	Delta Yes		Ranger	Malki	Gnat Gn		78	+150	-33		92	87	+827	+0,19	-0,02	+0,10	+53	+27	+47	+236	-89	+6	71	+91	99	100	99	101	100	95	104	87	106	105	109	110	113
STG US 3010353416	Edg Rubi-Asp	RF	Rubicon	Mccutchen	Nat		75	+150	-14		38	86	+184	+0,58	+0,15	+0,07	+60	+20	+15	+213	+28	+11	71	+457	104	100	104	99	95	101	80	101	102	106	96	102	
Tot NL 699058814	Hul-Stein Breezer		Achiever	Octoberfest	Nat		70	+150	+7		54	82	+153	+0,62	+0,07	+0,07	+82	+12	+1	+180	+48	+28	63	+181	103	102	105	102	106	99	102	79	101	100	106	101	104
Alt US 3132117150	Pine-Tree Altafeisty		Modesty	Supersire	Nat		82	+150	+14		123	89	+475	+0,16	+0,03	+0,07	+35	+19	+28	+160	+42	+30	79	+292	102	106	107	100	102	108	102	70	102	100	101	95	98
US 3135669646	No-Fla Jedify		Jedi	Altagenuity	Nat		78	+150	+14		127	89	+480	+0,09	+0,13	+0,08	+12	+29	+29	+153	+28	-3	70	+469	106	104	107	99	108	101	100	80	100	100	102	94	98
DE 0358388716	Kaluscho		Kingpin	Mogul	Gnat		84	+150	+7		83	92	+293	+0,30	+0,05	+0,04	+15	+17	+151	+9	+52	75	+62	104	103	106	97	99	105	100	91	98	99	110	99	104	
WWS US 72851617	De-Su Millington 12074		Miles	Sharrcock	Nat		85	+149	+0		299	90	+1304	+0,15	+0,10	+0,16	+71	+35	+76	+315	+10	+31	79	+371	100	101	100	95	99	102	99	90	102	99	101	96	99
DE 0539391998	Cashpoint		View-Home Ca	Balisto	Gnat		82	+149	-18		155	92	+478	+0,27	+0,10	+0,06	+45	+26	+27	+209	-49	+52	72	+429	102	102	99	103	100	105	99	85	97	98	104	98	100
WWS US 3008328673	S-S-I Bookem Morgan		Bookem	Sholto	Int		86	+149	+2		22	92	+1184	-0,15	-0,17	+0,00	+35	+24	+54	+188	+1	+38	81	+220	105	105	101	100	102	99	99	86	99	98	103	94	98
K&L SE 01131574132	Vh BjOrkil Alonso Access		Alonso	Bookem	Gint		83	+149	+12		54	92	+183	+0,31	+0,28	+0,02	+19	+18	-7	+112	+9	+13	80	+196	100	107	105	102	105	96	104	87	98	98	102	107	104
Mas DE 0356766096	Buzz		Banesto	Toscana	Gnat		87	+149	+1		152	94	+192	-0,13	+0,10	+0,02	-4	+16	+11	+61	-14	+33	80	+526	107	103	104	101	106	94	103	87	104	101	105	97	102
ABS DE 0538894921	Wildier Hamlet		Supershot	Saloon	Nat		87	+148	-7		345	95	+1309	-0,11	-0,06	+0,06	+44	+51	+66	+321	+29	+3	81	+146	105	100	100	100	102	99	103	91	104	104	103	97	102
Alt CA 13024756	Progenis Atlaspledge		Guarantee	Jedi	Nat		78	+148	+13		78	78	+705	+0,15	+0,15	+0,03	+44	+39	+29	+261	+29	+13	58	+338	101	104	106	101	104	99	99	65	99	100	105	99	97
WWS US 3129135873	Leaninghouse King Abel		Kingboy	Supersire	Nat		85	+148	-17		107	92	+1357	-0,32	-0,11	+0,09	+25	+36	+71	+221	-21	31	75	+403	103	103	106	98	101	100	102	81	97	102	101	96	98
Kam NL 715916861	De Vrendt Brad P	PO	Board	Snowman	Gnat		81	+148	+15		101	91	+693	+0,07	+0,03	+0,08	+36	+27	+39	+198	+13	+16	73	+275	104	101	104	102	102	101	102						

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

NVI/melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*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	R&L	T
Melkdoel Zwart																																					
CRV	NL 548848001	Delta Galore		Balisto	Gravity	GnaI		97	+141	+7	2350	99	-0,25	+0,13	+0,03	+24	+53	+56	+285	+8	+76	96	+420	101	94	92	102	97	96	102	99	95	98	106	104	104	
CRV	US 3140616174	Sandy-Valley Champion		Superhero	Silver	Gint		73	+141	+0	23	84	+800	+0,48	-0,03	-0,02	+80	+25	+35	+281	+0	-13	68	+91	103	104	104	98	102	99	107	91	97	103	108	91	99
STG	US 3012574967	Eg Bob Cyprus 15120-Et		Roylane	Booker	Numero Uno	Int	77	+141	-2	24	91	+794	+0,23	-0,03	-0,00	+56	+31	+36	+256	-3	-19	76	+154	103	102	102	95	102	96	105	72	104	102	101	97	100
Sam	NL 755136074	Westenrade Jethro		Rocky	Gerard	Gint		81	+141	+9	26	88	+1195	-0,30	-0,00	+0,02	+21	+42	+57	+233	+16	-31	74	+541	101	100	101	99	96	98	103	84	105	106	106	100	106
Tot	DE 0538910879	Wuppen		Woodcrest	Mr Roylane	Socra	Nat	75	+141	+0	41	86	+1023	+0,12	-0,11	-0,07	+55	+25	+40	+230	-20	+35	70	+260	98	104	101	99	104	102	64	100	101	102	99	101	
WWS	US 3131992881	Leaninghouse Helix 22137		Hang-Time	Jacey	GnaI		85	+141	+3	219	93	+275	+0,39	-0,18	-0,03	+47	+26	+10	+208	-4	+17	74	+119	103	104	104	99	104	100	99	100	101	106	96	101	
Kam	NL 714461889	Apina Skyhigh		Accord	Abel	GnaI Gn		79	+141	+4	157	88	+266	+0,21	+0,10	+0,00	+30	+18	+12	+140	+58	+5	71	+190	106	103	98	103	99	100	102	85	102	102	105	104	106
Tot	NL 872395800	Balou		Baltikum	Epochal	GnaI		81	+140	-2	79	91	+1305	-0,00	-0,06	+0,05	+55	+39	+65	+295	+24	+10	73	+253	104	98	96	100	101	99	100	85	102	101	109	96	103
Mas	DE 0369235304	Bestday		Bestboss	Balisto	Gint		74	+140	+4	32	86	+812	+0,03	+0,13	-0,02	+37	+41	+39	+258	+11	+66	86	+182	102	100	97	98	100	95	96	91	98	97	109	96	102
WWS	US 3012011801	Vatland Midgard		Rodgers	Mogul	Nat		70	+140	+6	25	78	+1433	-0,12	-0,20	-0,01	+48	+29	+64	+239	+9	+34	75	+224	100	102	102	106	102	93	74	100	98	103	100	101	
Kam	NL 684755412	Kik Vandebek		Baltikum	Supersire	GnaI Gn		77	+140	+33	86	88	+93	+0,64	+0,19	+0,11	+61	+20	+14	+214	-1	-8	71	+204	107	103	101	98	104	103	82	102	104	103	96	101	
Dek	FR 4242646974	Nuberone		Superhero	Silver	GnaI		83	+140	-7	477	90	+235	+0,50	+0,12	+0,02	+55	+19	+13	+197	-13	-16	74	+154	103	104	105	99	103	99	102	93	105	103	107	96	104
STG	US 3130010408	De-Su Spring Silverado		Altaspring	Supersire	GnaI 2n		82	+140	+11	116	92	+216	+0,38	-0,18	+0,00	+44	+24	+10	+194	-10	+37	76	+313	100	103	102	95	98	104	102	84	101	102	103	99	102
Sem	CA 12189047	Stantons Adorable		Supershot	Mccutchen	Nat		93	+140	+1	65	98	+698	+0,03	-0,04	+0,10	+32	+28	+41	+194	-10	-46	89	+212	100	103	100	98	106	104	107	97	104	108	110	104	110
ABS	US 706259988	De-Su 11236 Balisto		Bookem	Watson	Nat		97	+139	-70	12933	99	+314	+0,36	-0,33	-0,01	+46	+41	+15	+269	+7	+23	99	+396	102	100	102	104	103	101	97	99	98	99	105	95	99
Kam	NL 580721821	Poppe Red Hot Neymar	RF	Board	Snow RF	GnaI		83	+139	+20	163	92	+300	+0,41	+0,25	+0,05	+50	+33	+18	+246	+78	+24	75	+113	104	101	99	99	101	99	102	87	102	101	98	101	100
CRV	NL 735712436	Delta Jukebox P	PO	Barclay	Powerplay Pp C	GnaI		88	+139	-9	542	94	+248	+0,65	+0,29	-0,05	+45	+16	+16	+155	-22	-12	81	+209	104	100	100	105	104	99	105	96	105	104	107	108	110
GGI	NL 940147494	Molenkamp Bolt	RF	Bookem	Spencer	GnaI		96	+139	-3	2074	99	+308	-0,03	+0,12	-0,06	+10	+22	+9	+114	+5	+58	95	+42	106	105	102	97	108	98	99	100	99	104	99	101	
CRV	NL 682548137	Delta Jacobus		Topgear	Mobile	GnaI		92	+139	-37	2230	96	+448	+0,02	-0,06	+0,03	+21	+10	+18	+91	-29	-15	85	+486	106	103	101	101	98	95	106	99	98	104	101	101	
STG	US 3132352752	St Gen R-Haze Rapid		Rubi-Haze	Rubicon	Nat		75	+138	-3	49	82	+1485	+0,02	-0,04	+0,04	+65	+48	+72	+355	+47	-34	63	+435	99	98	102	96	102	101	98	84	101	105	106	99	104
CRV	NL 743430180	Delta Bonjour		Sidekick	Guard	GnaI		88	+138	+14	1155	93	+267	+0,12	-0,02	-0,08	-1	-11	-5	+49	-18	+6	81	+189	109	106	107	102	104	89	107	99	91	95	106	102	101
ABS	CA 11720551	Brabantdale Dax		Davinci	Mccutchen	Int		94	+137	+21	94	90	+866	+0,05	+0,06	-0,01	+42	+36	+39	+248	+8	+22	73	+282	103	100	99	100	104	95	98	80	99	98	107	98	102
Sem	US 3014562064	Sandy-Valley Cracksnot		Supershot	Mogul	Nat		78	+137	+10	55	87	+1587	-0,19	-0,28	-0,11	+47	+26	+84	+231	-19	+17	78	+277	104	98	100	104	105	101	81	101	103	107	101	105	
CRV	NL 684231664	Delta Leonardo		Reflector	Let It Snow	GnaI		96	+137	+4	2325	99	+1050	-0,21	-0,02	+0,09	+24	+39	+57	+227	-12	+19	91	+327	104	99	99	94	103	104	99	99	102	103	104	102	104
ABS	IT 036990601858	Dotti Medley Orthild		Medley	Silver	Nat		77	+137	-2	145	84	+361	+0,43	+0,08	-0,11	+55	+20	+27	+206	-73	-9	64	+272	102	102	101	96	101	103	101	81	100	104	107	101	105
Alt	US 3133064302	Entco Argo	RF CD	Silver	Supersire	Nat		76	+137	+6	30	85	+506	+0,05	+0,00	+0,18	+26	+18	+40	+140	+19	+27	72	+371	102	103	104	98	104	100	98	81	94	101	111	98	103
WWS	US 3008897582	S-S4 Snowman Mayflower		Snowman	Socrates	Nat		91	+136	-3	322	97	+2042	-0,49	-0,18	+0,05	+33	+51	+99	+308	+4	+25	88	+190	102	101	96	98	97	100	101	91	101	102	101	94	98
Sem	CA 12283286	Snowcast Lighthouse		Altaspring	Distinction	Nat 2n		88	+136	+39	503	95	+885	-0,11	-0,11	+0,16	+27	+20	+56	+156	+34	-5	80	+273	103	105	101	95	92	95	101	92	104	106	111	94	105
WWS	US 3141562808	Melarry Frazzled Fyi		Frazzled	Balisto	Nat		80	+136	-3	113	86	+656	+0,02	-0,05	-0,08	+30	+18	+22	+143	+8	+9	68	+400	106	102	107	103	99	100	101	87	99	99	103	93	97
STG	US 3132350980	Farnear Tir-Bn Torque		Mega Star	Mr Mogul Delta	Nat		71	+135	+10	58	83	+730	+0,33	-0,07	-0,07	+63	+19	+40	+222	+30	+23	63	+301	106	98	104	102	104	101	96	75	103	103	111	96	105
Kam	NL 759464722	Katershorst Job		Jorben	Bookem	Nat		85	+135	-19	463	92	+280	+0,13	-0,22	+0,05	+24	+30	+17	+179	-33	-19	78	+69	104	104	101	99	99	107	102	93	104	105	102	106	
ABS	US 73953334	Bonaz Hologram-P		Monterey	Numero Uno	Nat		72	+135	-15	15	82	+642	+0,17	-0,09	+0,00	+43	+14	+29	+156	-1	+51	68	+301	100	103	105	95	105	109	102	76	95	96	108	93	98
CRV	NL 686856258	Delta Bookem Danno	PO	Bookem	Bolton	GnaI		98	+135	-12	32622	99	+700	+0,26	-0,08	+0,01	+5	+16	+35	+86	+12	+2	98	+317	107	103	106	99	98	93	105	95	100	103	101	105	106
Ves	IT 017991512628	Mirabel Sound System		Silver	Supersire	Nat		88	+134	+21	236	96	+1592	-0,02	-0,12	+0,05	+65	+43	+78	+336	+40	+14	82	+235	97	102	101	98	104	108	97	93	94	99	107	94	99
ABS	US 3141494296	Abz Crimson		Spectre	Rubicon																																

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

NVI/melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*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	R&L	T	
Melkdoel Zwart																																						
Dek	US 73124156	Maplehurst Stoic Wilder		Spruce-Haven	Mogul	Nat		89	+128	+7	438	97	+302	+0,16	+0,14	-0,02	+27	+23	+12	+155	+19	+65	84	+258	99	98	102	105	105	102	106	91	94	96	108	105	104	
Mas	DE 0359821287	Salvo Rdc	RF	Salvatore Rc	Commander	Gint		75	+128	+0	36	86	+753	+0,12	-0,15	-0,11	+43	+12	+45	+153	+74	+36	68	+145	104	102	102	100	103	96	100	84	99	104	107	98	103	
Alt	US 3131131390	Peak Altaforever		Silver	Badger-Bluff Fa	Nat		91	+127	+9	490	98	+817	+0,20	+0,03	+0,03	+54	+31	+40	+253	+6	-29	87	+231	98	103	104	100	96	105	100	91	100	105	108	98	104	
GGI	NL 916344441	Mars Mandala		Mogul	Super	Gnat		85	+127	-18	120	93	+486	+0,20	+0,08	+0,01	+39	+24	+23	+187	-4	+8	78	+210	102	104	106	98	103	98	103	83	99	98	95	97	95	
STIG	US 3013474472	Edg Door Bentley 8386		Snowman	Snowman	Int		84	+127	-3	21	90	+681	+0,01	-0,08	+0,00	+30	+16	+31	+138	-7	+7	79	+132	107	103	103	101	97	98	95	88	99	99	103	94	101	
CRV	NL 632175000	Delta Sturdy		Ranger	Paragon	Gnat	Gn	86	+127	-9	1308	91	+258	+0,51	+0,28	+0,06	+33	+15	-7	+129	-79	-70	79	+310	104	101	103	102	105	96	103	99	105	105	110	108	112	
Sem	CA 12379989	Progenesis Mustang		Supershot	Defender	Nat	2n	84	+127	+23	165	93	+730	-0,12	-0,08	+0,18	+19	+18	+51	+129	-77	-7	77	+135	105	106	107	102	102	101	97	85	104	104	104	97	102	
Sem	CA 12192430	Silvridge V Euclid		Supershot	Mccutchen	Nat	2n	80	+127	+10	28	90	+1067	-0,14	-0,26	+0,05	+31	+11	+54	+126	+7	-16	74	+437	102	103	105	98	104	103	101	96	99	104	103	100	103	
CRV	NL 542303919	Delta Solero		Eminem	Laudan	Gnat		97	+127	-5	6202	99	-18	+0,22	+0,00	+0,19	+17	-1	+109	-2	+57	99	+205	103	101	105	97	95	105	100	99	98	96	100	99	98		
K&L	FR 5632667935	Jetset		Doorman	Ernes	Gnat		96	+127	-6	2002	99	+208	+0,02	+0,13	+0,05	+11	+19	+14	+105	+10	-24	96	+325	112	98	100	100	104	96	103	99	105	105	110	97	106	
Tot	DE 0358665633	Cicero		Cinema	Balisto	Gint		77	+126	+2	21	86	+2714	-0,55	-0,32	-0,09	+52	+57	+114	+377	+5	+22	68	+323	97	95	98	100	100	105	102	79	99	98	104	98	100	
CRV	NL 937303247	Delta Skyline		Barclay	Vitesse	Gint		87	+126	-20	620	93	+92	+0,34	+0,40	-0,10	+34	+39	-5	+230	-31	+7	80	+23	102	97	105	103	97	101	107	96	105	102	106	102	106	
Alt	US 3142181574	Peak Altamanor		Hurtgenlea Ydr	Altaspring	Nat		77	+126	+8	146	87	+890	-0,07	-0,07	+0,00	+31	+24	+41	+176	-10	-16	68	+411	105	101	102	101	103	99	101	75	103	104	100	99	101	
Sem	CA 12549522	Stantons Fountain		Jett	Mccutchen	Nat		75	+126	+24	53	83	+1077	-0,20	-0,13	+0,02	+26	+25	+47	+171	+26	-34	73	+125	104	105	103	102	107	101	70	104	105	107	97	104		
CRV	NL 684617547	Delta Shelter		Inductor	Silver	Gnat		85	+125	+30	473	92	+756	-0,04	-0,06	+0,09	+28	+21	+43	+158	+12	-10	78	+376	105	103	96	97	104	99	96	95	100	105	111	98	106	
CRV	US 3147840216	Peak Remington		Altaserve	Altaspring	Gnat	Gn	78	+125	-33	139	87	+295	+0,11	+0,12	+0,03	+23	+21	+16	+139	-19	+7	69	+334	96	105	106	99	103	102	104	88	101	102	109	98	104	
Sem	CA 12532147	Westcoast Scotch		Montana	Supershot	Nat		74	+125	+5	48	83	+502	+0,05	-0,09	+0,26	+26	+9	+147	+106	+22	-42	73	+269	106	107	104	102	103	101	74	105	104	109	91	102		
WWS	US 3142490264	T-Spouse Frazzled Huey		Frazzled	Silver	Nat		78	+125	-3	62	85	+262	+0,17	+0,05	+0,01	+27	+5	+13	+81	+14	+5	66	+355	104	104	105	100	102	103	99	83	100	100	98	99	104	
Mas	DE 0358162492	Missan		Missouri	Mccutchen	Gnat	2n	84	+124	+14	68	92	+1255	-0,06	-0,18	-0,16	+47	+25	+41	+214	-1	+20	75	+224	99	101	104	101	100	104	102	83	87	97	107	97	98	
WWS	US 3142934691	Ocd Helix Forte		Helix	Mr Mogul Delta	Nat		69	+124	+63	43	80	+305	+0,69	+0,00	+0,11	+76	+11	+24	+212	+109	+46	62	+134	102	101	105	96	104	102	79	96	99	106	92	98		
CRV	NL 676012246	Delta Lunar		Chuck	Pepe	Gnat		95	+123	+17	13426	97	+545	+0,44	+0,14	+0,07	+64	+32	+31	+275	+34	+9	88	+169	99	97	102	103	104	95	104	99	103	104	109	99	106	
Dek	DE 0356948588	Wah Idem	CD	Morgan	Snowman	Gint		79	+123	-9	71	90	+260	+0,51	+0,20	+0,02	+57	+27	+14	+235	+12	+25	74	+174	105	99	101	101	101	94	98	80	101	100	104	96	100	
CRV	NL 661726440	Double W Rodeo		Regard	Snowfever Cd	Gnat		93	+123	+4	584	98	+323	+0,28	+0,11	+0,12	+39	+21	+26	+176	+6	+14	90	+43	102	99	103	103	100	98	104	96	101	104	106	106	107	
Adv	DE 0122528740	Sandy Gh Bonbon		Board	Balisto	Gnat		84	+123	+28	84	90	+770	+0,34	+0,07	+0,14	+0	+34	+49	+154	+4	-1	71	+353	107	100	102	102	103	97	100	85	104	104	105	100	104	
Tot	NL 5832325424	Ockema Cashcown Koning		Cashcown	Altaioa	Gint		78	+123	+3	18	91	+217	+0,12	+0,08	-0,01	+20	+15	+9	+106	+4	-8	70	+349	104	105	103	105	101	104	100	81	103	102	106	96	102	
CRV	NL 677064558	Delta Jury		Jorben	Crescendo	Gint		87	+122	-14	341	94	+1258	-0,24	-0,02	+0,02	+29	+46	+59	+267	-19	+10	80	+104	103	99	105	105	96	95	100	100	94	96	99	101	96	97
OBS	DE 0360175060	Rolls		Roxy B	Supershot	Gint		72	+122	-14	23	84	+1287	-0,35	-0,14	-0,09	+19	+31	+50	+182	+5	+21	65	+274	102	100	99	99	102	103	106	100	79	97	98	108	101	104
CRV	NL 751519714	Apina Malcolm	RF	Stellando Rf	Ramos	Gnat		97	+121	+6	4671	99	+1167	-0,14	-0,03	-0,03	+35	+38	+50	+244	+10	+35	95	+24	100	99	106	100	99	96	102	99	96	101	93	109	100	
AWE	NL 755898972	Cogent Dg Superstyle		Supersire	Super	Nat		87	+121	-77	141	95	+1750	-0,44	-0,22	-0,07	+28	+38	+87	+241	-14	+1	83	+375	102	100	99	99	105	105	102	88	102	102	106	96	99	
ABS	US 3127334847	De-Su 12693 Skyfall		Josuper	Mccutchen	Nat		82	+121	-4	169	88	+767	+0,32	-0,08	+0,00	+63	+19	+35	+221	-18	+5	79	+257	101	102	103	96	104	94	100	78	103	101	101	97	100	
CRV	NL 620478531	Delta Deliver		Movement	Solution	Gnat		85	+121	+15	393	92	+851	-0,16	+0,06	+0,17	+21	+35	+55	+204	-6	+30	77	+228	104	101	102	104	101	97	104	99	94	102	107	97	98	98
Tot	US 3138851226	Kings-Ransom G Dylan		Granite	Mr Mogul Delta	Gint		72	+121	+22	45	85	+224	+0,15	+0,13	+0,11	+23	+20	+20	+136	+7	+45	84	+195	104	101	103	101	105	97	98	79	97	100	112	95	103	
WWS	US 143189741	Wa-Del Yoder Bandares		Woodcrest Mq	Massey	Nat		89	+121	-7	226	96	+313	+0,41	+0,22	-0,01	+22	+8	-15	+75	-5	-34	84	+331	105	104	102	97	101	109	100	94	104	105	108	101	107	
Kam	NL 935351749	Jennelus Barytan		Barclay	Packman	Gnat		90	+120	+18	480	96	+43	+0,94	+0,44	-0,24	+81	+37	+23	+315	+25	+39	83	+44	104	100	102	99	107	97	97	93	96	95	93	103	96	
ABS	US 3013115112																																					

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

NVI/melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*VLI

Perspublicatie stierindexen Zwartbont

April 2023

Table with columns: 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. Rows include various bull names like Melkdoel Zwart, Kam NL 654340930, Sem CA 12130526, etc.

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

NVI/melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*VLI

Perspublicatie stierindexen Zwartbont

KI Stiernummer AI Bull number	Stiernaam Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B N S N	Bt Rel	NVI NVI	+/- +/-	dtrs daus	Bt Rel	kgM kgM	%V %F	%E %P	%L %L	kgV kgF	kgE kgP	Kgl Kgl	INET INET	+/- +/-	BVK SFCM	Bt Rel	Lvd Lon	Ugh Udh	Vru Fer	Gin Cal	Geb DCE	KA Tem	MS MS	Kgh CLW	Bt Rel	F F	T DS	U U	B R&L	Ext T	April 2023	
																																				pnt	Productie €
CRV NL 925887513	Bouw Rocky		Shamrock	Goli	GnaI	98	+99	+7	19125	99	-302	+0,16	+0,10	-0,03	+1	-2	-16	-11	-10	-67	99	+632	108	102	105	98	100	99	103	99	102	105	104	100	103		
Kam NL 606684859	Poppe Red Hot Baricco	RF	Barolo	Snow Rf	GnaI	81	+98	+7	135	91	+183	+0,31	+0,11	-0,02	+36	+16	+7	+143	-17	+19	74	+274	99	105	97	98	96	104	100	86	99	98	105	95	99		
CRV NL 685665840	Delta Joy		Jol	BoIt Rf	GnaI	87	+97	-9	473	93	+829	+0,03	+0,26	-0,06	+32	+54	+32	+298	+7	+29	79	+51	100	101	99	98	106	99	93	95	94	97	102	97	97		
Dek FR 8538923120	Le Valton Ladin		Commander	Bookem	GnaI 2n	81	+97	+3	78	91	+1201	-0,27	-0,04	+0,10	+24	+38	+65	+226	+15	-11	74	+142	99	101	102	99	105	100	102	86	105	103	101	98	101		
WWS CA 12529277	Progenies Modest Roland 512		Modesty	Bomboro	Nat	74	+97	+12	23	79	+65	+0,40	+0,01	+0,10	+38	+1	+12	+88	+20	+55	75	+175	99	100	107	102	101	107	104	77	98	97	108	98	102		
Sam CA 107559777	Swissbec Brekem	RF	Bookem	Man-O-Man	Nat	97	+97	-8	8924	99	-43	+0,20	+0,15	+0,05	+16	+12	+2	+83	+7	+17	97	+182	100	105	100	104	99	102	99	101	103	103	101	103			
WWS CA 11591480	Delaberger Pepper		Mogul	Planet	Nat	95	+97	-2	1542	99	-391	+0,54	+0,21	+0,08	+29	+4	-11	+74	-10	-29	95	+209	104	102	104	102	107	101	100	99	103	106	109	102	108		
Mas DE 0357400200	Bonando		Boss	Beacon	GnaI	81	+96	+18	56	91	+1004	-0,07	-0,10	-0,01	+36	+25	+45	+192	+15	+34	76	+131	103	100	99	93	102	97	98	83	97	96	101	97	97		
CRV BE 412323892	Newhouse Jorben		Vitesse	Epic	GnaI	97	+96	+9	2177	99	+371	+0,30	+0,10	-0,02	+43	+22	+19	+186	-8	-40	96	+80	105	100	100	100	95	95	104	99	103	105	109	96	104		
CRV NL 586848551	Delta Leverage		Inductor	Bravo	GnaI	85	+96	-9	604	91	+444	+0,76	+0,30	+0,02	+45	+10	-19	+130	-13	+43	78	+165	105	100	102	108	106	95	95	95	98	100	103	99	100		
Mas DE 0770405805	Battleship		Battlecry	Anton	Gint	77	+96	+14	21	85	+258	+0,19	+0,03	+0,00	+28	+12	+12	+112	+13	+17	68	+333	103	100	96	96	100	99	100	81	98	100	107	101	104		
CRV NL 656149430	Groenib Bram	RF	BoIt Rf	Stellando Rf	GnaI	95	+96	-2	542	99	+204	+0,00	+0,14	+0,03	+9	+20	+12	+105	+9	+14	93	+294	108	100	100	96	105	96	96	97	105	103	101	99	102		
Kam NL 625042393	De Vlog Elmar		Basta	Titanium	GnaI	77	+95	+15	72	88	+533	+0,00	+0,09	+0,05	+23	+27	+29	+168	-8	-17	70	+201	101	100	102	102	105	99	81	103	101	103	105	105			
STG US 3129015989	Stantons Chief		High Octane	Numero Uno	Nat	87	+95	-7	194	93	+1124	-0,26	-0,23	+0,05	+22	+16	+56	+129	-12	-48	76	+26	107	102	98	92	103	98	100	90	102	105	112	98	107		
STG US 3012574853	Mr Coin Draco 15006	CD	Cashcoin	Roylane Socra	Nat	78	+95	+7	26	85	+1026	-0,23	-0,23	+0,06	+21	+13	+53	+113	+7	+45	74	+358	105	102	100	102	101	90	97	80	94	96	105	88	94		
Alt US 3131131371	Peak Altapopis		Silver	Supersire	Nat	91	+94	+16	584	98	+88	+0,58	+0,15	+0,02	+47	+10	-2	+139	+7	-13	86	+186	104	101	102	101	98	98	102	91	97	104	103	96	99		
Sem CA 12571509	Claynok Miami		Ocd Command	Silver	Nat	72	+94	+28	104	85	+570	+0,17	-0,12	+0,19	+40	+9	+44	+134	+7	-5	66	+149	104	100	103	97	104	96	83	100	101	109	96	103			
LIV CA 12189058	Stantons Miss Joplin		Missouri	Mccutchen	Int	76	+94	-12	21	91	+1656	-0,54	-0,43	-0,01	+14	+13	+75	+105	-10	+2	76	+219	105	100	102	99	98	101	102	70	94	101	106	96	99		
WWS US 3008328791	S-S-I Shamrock Mystic		Shamrock	Shottle	Nat	87	+94	-10	142	94	+635	-0,22	-0,13	+0,21	+6	+10	+49	+68	-7	+36	84	+403	100	108	105	100	103	96	98	89	100	100	97	91	94		
Tot US 70477026	Mr Movistar Model		Roylane Socra	Planet	Nat	75	+94	-5	22	85	+640	-0,32	-0,15	+0,16	-3	+8	+44	+40	-13	+23	73	+337	98	105	103	99	104	103	105	78	103	100	101	101	102		
Tot NL 920962055	Vekis Dg Popeye		Balisto	Numero Uno	GnaI	87	+94	+13	135	94	+636	+0,55	+0,26	+0,10	+18	-1	-21	+27	+2	+20	81	+249	103	106	100	99	103	102	99	86	97	99	111	94	102		
Sam NL 573341148	Rijnhof Dg Brian		Beato	Balisto	Nat	75	+93	+11	85	87	+1216	-0,12	+0,02	-0,08	+40	+44	+47	+279	+5	+22	67	+36	99	99	100	100	102	100	97	74	98	100	105	98	101		
CRV NL 533730469	Delta G-Force		Man-O-Man	Jordan	GnaI	98	+93	+7	19833	99	+345	+0,16	+0,15	-0,03	+29	+26	+13	+171	-2	+52	99	+111	96	102	102	102	98	99	100	99	93	97	100	103	99		
GGI DE 0357970606	Burano		Balisto	Mayfield	Gint	82	+93	+17	19	88	+1160	-0,47	-0,10	-0,02	+2	+30	+55	+144	+3	-2	73	+257	103	101	99	100	101	105	98	82	95	99	111	94	101		
Sem CA 12380028	Progenies Avatar		Altaspring	Defender	Nat 2n	86	+93	-2	233	95	+380	+0,20	+0,00	+0,23	+35	+13	+39	+139	+17	+26	80	+86	98	104	102	101	101	106	99	87	98	102	110	96	103		
Sem CA 11538388	Benner Santana	RF	Mogul	Planet	Nat	87	+93	+24	278	92	+591	+0,04	+0,05	+0,05	+29	+16	+32	+136	+27	+39	82	+77	100	100	104	101	102	102	91	92	99	100	105	105	105		
Tot US 3137661286	Seagull-Bay R Sergio		Fairmont Stoic	Mr Mogul Delta 15	Nat	67	+93	-7	34	80	+781	-0,40	-0,08	-0,15	-5	+19	+50	+82	+49	+56	58	+270	102	102	102	104	103	101	98	62	98	96	107	95	100		
K&L DK 0380000575	Vh Hoesgaard Reflector Rozwell		Reflector	Osmus	GnaI 2n	85	+93	+7	81	92	-284	-0,02	+0,17	+0,14	-14	+5	-1	-9	+6	+31	73	+595	101	101	104	100	100	114	101	88	103	100	104	105	106		
Alt NL 762038996	Holec Altabarista		Balisto	Man-O-Man	Nat	88	+92	+8	299	96	+610	-0,08	+0,18	+0,02	+18	+38	+30	+203	+17	+34	83	-3	103	99	101	103	100	103	99	88	95	97	104	95	98		
Alt DE 0539392042	Wildler Aitakid		Jedi	Modena	Nat	77	+92	-9	60	88	+552	+0,04	+0,08	+0,14	+27	+27	+38	+178	+10	+10	70	+412	97	103	103	102	106	98	100	77	98	102	106	89	97		
Alt US 71494672	Ebg Daman		Mogul	Atwood	Nat	80	+92	-5	36	83	+417	+0,34	-0,02	+0,04	+49	+13	+23	+163	-7	+10	81	+120	101	98	95	93	101	105	90	98	100	111	106	108			
ABS US 3128557697	Ads Jones		Silver	Tango	Nat	80	+92	-9	75	90	+382	+0,14	-0,08	+0,10	+29	+6	+8	+88	+9	+31	74	+5	99	105	107	101	106	107	83	96	99	106	99	101			
K&M NL 584553575	Koepen Topspin		Topgear	Jeeves	GnaI	83	+92	+6	95	92	+1012	+0,64	+0,18	+0,05	+7	+21	+53	+97	+7	-18	77	+377	110	103	96	100	100	94	105	85	100	104	95	108	104		
GGI DE 0357496954	Ferro	BR	Fergus	Snowboard	GnaI	83	+91	-15	92	91	+710	-0,14	-0,03	+0,08	+17	+22	+40	+138	-17	+64	71	+11	97	103	102	100	101	106	99	84	99	100	108	98	103		
Alt US 3145229983	Peak Altalfyhigh		Altalfywheel	Silver	Nat	79	+91	-3	202	88	+207	+0,31	+0,05	+0,04	+37	+12	+13	+131	+12	-43	71	+109	104	103													

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

NVI melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*VLI

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KI Stiernummer AI Bull number	Stiername Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B N S N	Bt Rel	NVI NVI	+/- +/-	dtrs daus	Bt Rel	kgM kgM	%V %F	%E %P	%L %L	kgV kgF	kgE kgP	Kgl Kgl	INET INET	+/- +/-	BVK SFCM	Functioneel					Exterieur										
																					Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B	E	
Tot NL 548077232	Snowbiz Symion	BY/RF	Dymentholm S	Snowman	Gnal	78	+82	+2		28	89	+552	+0,10	-0,14	-0,09	+33	+6	+17	+99	+3	+1	72	+31	101	103	100	104	98	106	99	80	98	102	109	101	105
AWVE DE 0359171051	Bali P	CO	Battlecry	Jacey	Gint	76	+82	-7		18	85	-205	-0,30	+0,05	+0,02	+17	-3	-8	+21	+10	-1	15	68	+258	108	103	102	100	100	100	97	80	95	100	95	100
Tot US 70354883	Observer-Trb-Bh Cashmoney	PD	Observer	Goldwyn	Nat	77	+82	+6		25	86	+378	-0,29	-0,09	+0,01	-11	+5	+18	+3	+16	-1	74	+201	106	104	102	106	99	100	100	82	104	102	106	97	103
Sem CA 107359260	Comestar Laurtrust		Sudan	Man-O-Man	Gnal	93	+81	+9		1137	97	+1087	+0,01	-0,06	-0,03	+47	+32	+47	+244	+32	+55	90	-16	99	100	98	99	94	99	95	96	95	98	104	95	98
Sem CA 107931181	Silveridge V Extreme		Supersire	Snowman	Nat	87	+81	-19		164	95	+1206	-0,29	-0,15	+0,00	+22	+27	+55	+173	+49	+16	82	+424	99	99	100	97	100	98	95	91	99	102	102	97	99
WWS US 3006989495	Mr Ocd Robust Donatello		Roylane Socra	Plan	Nat	88	+81	-14		79	93	+774	+0,01	-0,13	-0,15	+34	+14	+50	+144	-5	+67	87	+97	97	104	103	100	104	104	99	90	94	96	98	95	94
ABS US 3127334933	De-Su 12779 Enzo		Josuper	Krunch	Int	79	+81	-3		33	88	+1150	-0,29	-0,24	-0,01	+20	+16	+52	+123	+15	+28	74	+500	99	101	102	99	102	103	95	67	98	101	104	97	100
Mas DE 0122048950	Hicflac		Flattop	Balisto	Gint	83	+81	+8		81	91	+33	-0,28	+0,03	+0,14	+27	+8	+17	+86	+23	+4	71	+32	107	102	103	102	103	100	98	84	105	104	104	94	101
Mas DE 0358774577	Feeling		Flattop	Balisto	Gint	73	+80	+11		27	85	-199	-0,54	+0,03	-0,01	+38	-4	-9	+61	+7	+14	67	+182	105	102	103	105	103	97	96	80	99	101	104	94	102
WWS US 3130915852	Cookiecutter Humblenkind		Modesty	Epic	Nat	79	+80	+1		45	86	+259	-0,03	-0,03	+0,18	+8	+6	+28	+50	+16	+54	69	+108	97	104	105	104	100	104	99	83	91	94	111	98	101
GGI DE 0122451167	Avicil		De-Su 12138 Al	Montross	Gint	71	+80	+6		18	83	+189	-0,13	+0,06	-0,08	-4	+12	+1	+41	+45	-4	64	+352	98	105	105	101	102	108	102	78	101	101	107	96	102
GGI DE 0121142902	Bolaro		Boss	Beacon	Gnal	84	+79	+1		71	91	+1479	-0,40	-0,12	+0,00	+21	+39	+68	+224	-4	+2	75	+2	95	101	100	100	99	105	101	84	102	100	104	102	104
LIV US 72031815	Cal-Roy Al Nathan		Silver	Headliner	Nat 2n	70	+79	+11		45	83	+1185	-0,17	-0,24	-0,25	+67	+17	+29	+219	+18	+2	75	+168	95	97	106	98	103	104	101	72	102	103	112	102	108
Mas DE 0356607584	Amax	RF	Aikman	Pioneer	Gnal	86	+79	+7		75	93	+400	+0,54	+0,24	-0,09	+29	+6	-26	+78	+3	-1	78	+83	102	105	102	102	103	92	101	86	99	102	99	104	102
ABS US 71813323	De-Su 11737 Hatrick		Day	Roylane Socra	Int	84	+79	+4		32	91	+911	-0,42	-0,24	-0,01	-2	+8	+41	+41	+6	+32	77	+134	104	102	104	102	98	105	99	84	93	98	104	98	99
Sem CA 12478052	Vogue Never Agn PP	RF PP	Calbrett Sifter	Capital Gain	Nat	74	+78	+19		82	86	+462	-0,03	-0,17	+0,00	+17	+0	+21	+42	+44	+17	64	+129	106	103	96	97	101	103	102	77	100	103	107	98	103
Alt US 70694548	Rosylane-Lic Altanetbook		Bookem	O Man	Int	81	+78	+2		59	91	+452	-0,24	-0,12	+0,01	+1	-6	-20	+29	+12	-1	78	+201	104	109	103	104	101	96	101	73	102	101	98	96	98
WWS US 3004373270	Ronelee Gold Digger	CD	Goldwyn	Outside	Int	86	+78	-17		40	92	+433	-0,38	-0,16	-0,01	-17	+0	+19	-30	+1	+35	84	+142	107	102	108	112	95	104	102	87	94	95	105	93	96
GGI DE 0356600078	Fergus		Fanatic	Snowman	Gnal	80	+77	+3		31	89	+1813	-0,34	-0,24	-0,03	+41	+37	+80	+262	+2	+63	75	+146	96	97	99	103	100	104	99	84	99	100	103	95	99
Sem UK 388380500583	Willbro Abbott	CD	Satisfaction	Mogul	Int	83	+77	-10		83	93	+93	-0,28	+0,05	+0,00	+29	+8	+4	+95	+13	-1	79	+65	100	103	103	101	104	100	84	98	103	110	98	104	
Sam NL 664359977	Apina Expert PP	RF PP	Exploding Star	Kanu P	Nat	80	+77	-19		109	91	-297	+0,08	+0,04	+0,11	-6	-7	-4	-43	+1	+76	73	+697	110	97	100	100	98	100	98	72	94	89	103	92	94
ABS US 70625980	De-Su 11228 Topsy		Bookem	Watson	Nat	93	+77	+8		836	98	+628	+0,06	+0,08	+0,05	+32	+29	+33	+196	+17	+25	91	+220	100	100	102	100	100	105	94	101	100	105	93	99	
Sem NL 724441769	Vvh Snapshot		Supershoot	Maik	Nat 2n	90	+76	+0		466	97	+1506	-0,41	-0,28	-0,18	+21	+23	+50	+153	+3	-36	85	+376	102	102	102	100	102	97	100	91	98	104	94	96	95
WWS US 3009533223	Mr Ocd Epic Dragonheart		Epic	Planet	Nat	89	+76	-14		181	94	+1919	-0,63	-0,43	-0,18	+14	+20	+107	+144	+20	+49	85	+283	100	101	97	103	100	102	98	92	98	97	104	93	97
Alt US 312668010	Peak Altairuison		Camaro	Mccutchen	Gnal 2n	81	+76	+0		49	89	+628	-0,22	-0,13	-0,05	+6	+10	+24	+61	-5	-38	70	+293	99	104	105	102	102	106	105	81	104	103	102	99	102
Alt US 3129128746	Peak Altairunkey	BL	Wickham	Ransom	Nat	88	+75	-77		179	95	+352	-0,65	-0,07	-0,02	+75	+19	+14	+240	+2	+20	81	-18	97	101	106	101	105	103	100	80	103	101	98	93	96
Alt NL 751487480	Peak Altamarlon		Altaspring	Co-Op O-Style C	Int	73	+74	+4		16	88	+1217	-0,39	-0,22	-0,01	+12	+20	+55	+124	-23	-3	75	+87	94	106	103	103	99	103	101	69	102	103	108	97	104
Tot DE 0356706949	Alonso		Alpine	Epic	Gint	77	+74	-2		19	85	+1131	-0,40	-0,27	-0,09	+8	+12	+43	+79	+4	+30	68	+312	103	98	99	97	100	104	101	79	99	100	105	99	102
ABS US 72156784	Seagull-Bic Silver		Mogul	Snowman	Nat	87	+73	-13		6081	99	+697	+0,24	-0,08	-0,10	+52	+17	+41	+191	+21	-3	99	+62	94	101	102	97	102	107	99	98	96	103	110	102	106
CRV NL 623185191	Primeval Royal Magnus-Et		King Royal	Mr Mogul Delta	Nat	73	+73	+42		52	84	+22	+0,52	+0,09	+0,06	+47	+9	+6	+137	+22	+17	67	+321	101	99	104	95	99	104	97	80	98	101	106	93	99
Sem CA 12698005	Lindenright Apps		Applicable	Superman	Int	77	+73	+19		45	91	+551	-0,09	-0,06	+0,00	+15	+14	+25	+96	+7	-3	68	+184	101	100	98	93	101	100	88	97	103	111	101	106	
Tot DE 0360175103	Adion P	PO	Adagio P	Rubicon	Gint	77	+73	+0		65	88	+82	+0,18	+0,12	+0,02	+13	+8	-1	+60	+11	-57	69	+39	103	103	101	97	97	100	102	86	100	105	108	102	106
Sem NL 714061773	Rh Superman		Supersire	Man-O-Man	Nat	78	+72	+13		47	88	+1454	-0,05	-0,03	+0,02	+57	+47	+68	+333	+23	+18	81	+195	95	99	101	101	103	102	92	81	102	101	102	92	98
WWS US 690931134	Wargo-Acres Merritt		Bookem	Bolton	Int	80	+72	+10		24	89	+401	+0,21	+0,07	+0,00	+36	+20	+18	+163	-5	-2	76	+109	107	97	97	92	97	95	97	76	100	98	103	98	100
Mas US 3131003480	Jazz		Modesty	Kingpin	Gint	76	+72	+37		41	88	+410	-0,01	-0,08	+0,11	+16	+7	+29	+71	+34	-20	70	+170	102	103	102	100	103	106	99	82	106	103	105	100	105
WWS US 3136246981	Hivland Simplicity-P																																			

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

NVI/melkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVI/dubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*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
Melkdoel Zwart																																					
WWVS US 71303599	Le-OLA Mogul Gambler		Mogul	Atwood	Nat	80	+64	-77		29	84	+1171	-0,40	-0,34	+0,05	+10	+7	+58	+67	+4	+14	72	+256	102	98	103	102	101	103	100	77	100	102	110	97	104	
Sem CA 107281711	Val-Bisson Doorman		Bookem	Shottle	Nat	96	+64	+6		2000	99	-137	+0,18	+0,00	+0,00	+10	+4	+6	+36	+5	-35	96	+1	110	101	102	98	103	92	96	99	100	100	110	96	103	
Alt US 3132426397	Peak Altadurist		Montross	Badger-Bluff Fa	Nat	81	+63	+4		44	87	+1415	-0,36	-0,06	+0,01	+23	+43	+66	+244	-7	-25	80	+396	94	99	96	103	104	97	102	77	100	103	108	92	100	
FR 7261003835	Benjamin		Beacon	Toystory	Gint	86	+63	+18		19	93	+1020	-0,28	-0,07	+0,08	+16	+29	+54	+169	+9	+10	81	+83	102	100	96	100	102	99	98	92	103	101	98	99	99	
Alt FR 7261003981	Eba Altajethro		Tango	Mogul	Nat	76	+63	-15		37	86	+870	-0,23	-0,14	+0,03	+15	+17	+44	+114	-10	-20	79	+31	99	102	102	100	99	100	101	73	101	100	102	99	101	
CA 12021596	Stantons Elapse 6815		Kingboy	Supersire	Nat	78	+63	+17		60	88	+663	-0,07	-0,13	+0,03	+21	+11	+33	+99	+35	-22	78	+165	102	102	102	99	100	102	100	79	105	103	105	94	101	
Alt US 3140618106	Sandy Valley Altaemoji		Bandares	Pure	Net	81	+63	-9		104	89	+370	+0,14	+0,14	-0,02	-4	-1	-15	-17	+75	-30	69	+214	103	106	102	97	103	104	101	76	101	103	105	97	102	
CRV NZ DMLF-11-5	Delta Alonso		Atlantic	Shottle	Gnal	96	+63	-9		2952	99	-343	+0,03	+0,18	-0,05	-12	+3	-20	-19	-7	+8	97	+47	99	102	106	101	102	101	106	99	93	92	104	109	103	
SZO DE 0539040496	Samovar		Silver	Galaxy	Nat 2n	63	+62	-30		19	72	+267	+0,56	-0,06	+0,06	+2	+15	+7	+194	-67	-18	60	+20	96	100	102	97	101	103	85	100	104	104	102	104		
Alt US 72596580	Farnear Altabingo		Mccutchen	Observer	Nat	70	+62	+14		28	81	+756	-0,33	-0,10	+0,00	+0	+17	+35	+80	+5	-18	68	+4	103	102	103	97	105	106	98	98	99	101	108	96	102	
WWVS US 3013614200	Cookcutter Hang-Time		Montross	Supersonic	Int	85	+61	+0		56	93	+152	+0,42	+0,19	-0,01	+44	+22	+6	+184	+3	+65	83	+58	97	99	100	102	103	100	89	93	97	105	91	95		
Sem CA 109145511	Silverstream Porter		Bomboro	Mogul	Int	83	+61	-17		138	90	+350	+0,28	-0,11	-0,01	+41	+2	+15	+99	-1	-7	74	+50	102	101	102	96	96	102	100	86	104	103	107	95	103	
GGI NL 629596229	Donald 209		Malki	Jerudo	Nat	82	+61	+26		168	91	+595	+0,02	-0,13	+0,01	+27	+8	+28	+98	+44	+14	75	+161	103	99	97	95	95	101	103	86	100	102	94	103	99	
GGI DE 0538854484	Nuance		Nugget	Snow RF	Gint	77	+61	-6		15	84	+592	-0,20	-0,15	+0,11	+6	+6	+37	+48	+3	+58	67	+96	104	103	99	101	100	98	96	94	97	94	97	104	91	95
K&L US 69981344	Seagull-Bay Sargeant		Badger-Bluff Fa	Planet	Nat	93	+60	-3		642	98	+2200	-0,67	-0,39	+0,06	+19	+34	+107	+211	-1	-11	93	+128	98	98	96	96	102	102	96	102	106	104	98	103	103	
WWVS US 143754338	Scientific Doppler		Hang-Time	Doorman	Int	75	+60	+12		24	90	+1034	-0,04	-0,10	+0,00	+40	+26	+47	+205	-8	+23	71	+226	102	92	97	99	103	99	86	101	100	107	97	102		
ABS US 3141494563	Denovo 7977 Boxcar		Growl	Mr Mogul Delta	Nat	73	+60	+27		84	81	+289	+0,07	+0,17	+0,11	+19	+26	+23	+153	+7	+11	62	+108	92	103	104	98	98	113	74	102	103	109	96	104		
Sem CA 12020854	Boldi V Aptitude		Davinci	Epic	Int	85	+60	-28		166	92	+504	+0,04	-0,09	+0,00	+25	+9	+23	+96	-74	-23	77	+236	102	98	101	100	98	96	99	90	103	102	112	98	107	
Alt US 72353489	Ri-Val-Re Salsa		Cashcoin	Ri-Val-Re Macg	Nat	71	+60	+5		31	83	-219	+0,26	-0,12	+0,09	+13	-18	-2	-47	+73	+46	67	+181	105	105	97	99	100	102	99	74	95	95	106	94	98	
AWE US 3126539652	Co-Op Troy Pledriver		Troy	Supersire	Int	81	+59	+59		31	88	+2398	-0,37	-0,22	+0,00	+60	+59	+109	+401	+75	+32	75	+59	91	93	104	103	104	109	94	94	100	99	104	100	102	100
Alt US 3142181436	Peak Altabentley		Jedi	Silver	Int	70	+59	-12		23	87	+580	-0,09	-0,01	-0,01	+16	+21	+26	+128	-20	-9	69	+181	100	101	99	94	104	96	65	96	101	108	90	98		
Sem CA 11981553	Benner Bardo		Flame	Mogul	Int	85	+59	+26		481	92	80	+0,56	+0,11	-0,01	+46	+7	+3	+124	-2	+45	78	+84	98	102	94	98	103	106	101	91	95	96	104	96	98	
Kam NL 62197552	Big Kofu		Jetset	Brawler	Gint	83	+59	-19		124	92	-517	+0,60	+0,29	+0,03	+28	+6	-21	+77	+9	+5	75	+165	104	98	102	100	103	99	100	88	105	102	107	96	103	
CRV NL 870509524	Delta Builder P		Esperanto	Powerball P	Gnal	87	+58	-9		744	93	-154	+0,43	+0,17	+0,05	+31	+9	-3	+101	-10	-26	80	+83	102	102	101	104	102	97	103	92	103	106	91	96		
Sem CA 12719010	Progenesis Dartagan		Eugenio	Altaspring	Nat	67	+58	-17		40	78	+531	-0,05	-0,12	+0,10	+18	+7	+34	+77	+17	-1	51	+69	100	101	99	98	101	103	83	102	103	113	101	108		
Mas NL 92085490	Heidenskipster Kingman		Kingboy	Gerard	Gint	81	+58	-9		22	88	+1235	-0,38	-0,39	+0,05	+14	+4	+61	+64	-9	-4	74	+28	99	103	104	97	99	103	101	85	96	102	108	97	102	
CRV NL 498938423	Delta Atlantic		Ramos	O Man	Gnal	98	+58	+2		72460	99	-432	-0,07	+0,13	-0,16	-24	-4	-33	-77	-9	-25	99	+14	107	103	105	101	101	97	107	99	105	103	98	104	103	
Alt US 3129128854	Peak Altatohat		Altatohat	Mccutchen	Nat	86	+57	-9		178	93	+386	+0,26	+0,09	+0,06	+27	+11	+9	+106	+8	-65	76	+28	104	102	97	97	104	105	98	98	98	103	110	99	105	
OBS DE 0359270967	Jetson		Jetset	Brekem	Gint	77	+57	+1		35	88	-143	+0,05	+0,18	-0,02	-2	+11	+5	+39	-7	-23	71	+173	102	100	99	100	100	104	84	105	104	110	99	107		
Alt US 3135146627	End-Road Altaminikus		Jett	Roylane Socra	Nat	70	+56	+8		35	78	+986	-0,12	-0,05	+0,07	+30	+29	+52	+198	+22	+26	69	+58	101	98	101	96	106	101	98	62	101	100	103	90	97	
Tot DE 0358563083	Garant		Galaxy	Snowman	Gnal	82	+56	+76		64	91	+1172	0,11	0,25	-0,07	+39	+16	+47	+162	+9	+34	76	+156	102	93	103	105	106	104	97	85	98	104	105	100	103	
Sem IT 053990116251	Toc-Farm Fitz		Doorman	Snowman	Nat	94	+56	+1		1329	99	+908	-0,24	-0,13	-0,06	+15	+19	+36	+120	-3	-54	93	+189	108	97	104	98	98	98	97	103	105	113	97	107		
CRV NL 532128858	Caps Sunset		Diamond	Goldwyn	Gnal	97	+56	-1		3406	99	-362	-0,07	-0,02	+0,10	-21	-14	-9	+104	-5	+46	99	+255	103	106	102	99	105	101	104	99	89	94	103	93	94	
WWVS US 72190767	Pain-Knol Dona Bayonet		Donatello	Shamrock	Nat	86	+55	-9		145	93	+1023	-0,29	-0,19	+0,15	+15	+17	+60	+119	+24	+20	78	+107	97	104	97	98	103	107	101	85	98	101	101	95	97	
Adv NL 941020350	Bainkamper Marilyn Climax		Commander	Dempsey	Gnal	79	+55	-2		40	89	+713	-0,24	-0,05	+0,04	+7	+20	+36	+108	+14	+2	74	+8	102	100	97	94	103	102	98	86	101	103	111	97	105	

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

NVImelkdoel = 0,37*Inet+0,07*ld+5,5*UGH+6,5*VRU+2,0*Uier+2,5*Beenwerk+2,0*GEB+3,0*KGH+0,37*BVK

NVIdubbeldoel = 0,33*Inet+0,09*ld+5,7*UGH+5,5*VRU+5,5*Uier+5,5*Beenwerk+2,0*GEB+5,0*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-fact	Sire	MGS	S	N	Rel	NVI	+/-	daus	Rel	kgM	%F	%P	%L	kgF	kgP	KgI	INET	+/-	SFCM	Rel	Lon	Udh	Fer	Cal	DCE	Tem	MS	CLW	Rel	F	DS	U	R&L	T	
		Melkdoel Zwart								pnt										€		€																
Ves	NL 543415590	Oelhorst Mick Aluminium		Prince	Active	Nat		87	-19	+0	188	95	-959	+0,15	+0,00	+0,11	-29	-33	-35	-207	+10	+61	84	+362	98	103	100	101	101	104	98	81	93	89	101	102	98	
AWE	FR 2216892431	Hurion Isy		Sudan	Planet	Gnat		90	20	+0	577	96	353	+0,19	+0,18	+0,12	+1	-3	-6	+13	+25	-60	84	-59	101	99	101	98	104	101	99	92	106	105	98	103	103	
Kam	NL 612994980	Het Meer Sunny Dream		Sundance	Atwood	Gnat		92	-22	+7	494	98	-307	+0,49	+0,23	-0,05	+29	+9	-18	+92	+7	-29	91	-43	102	93	96	96	98	99	98	93	98	102	103	100	101	101
Ves	IT 028990273568	Gegania S. Armazen		Sudan	O Man	Nat		86	-22	+8	373	94	-88	+0,36	+0,13	+0,00	+28	+8	-4	+90	+20	-11	80	-93	97	99	94	104	101	103	101	85	105	103	96	98	99	
CRV	NL 810871182	Horst Alford	RF	Hunter	Fidelity	Gnat		95	-22	-9	3325	99	-385	+0,23	+0,38	+0,00	+3	+19	-18	+79	+14	-14	94	-218	96	98	97	95	109	98	95	99	101	101	103	103	104	104
GGI	NL 753771253	Spell It		Spell	Prince	Gnat		84	-27	-4	144	93	-685	+0,17	+0,13	-0,16	-15	-13	-44	-98	-20	+22	77	+152	104	101	89	98	97	99	97	87	97	99	98	98	97	
Kam	NL 660281847	Poppe Ferdi		Boss	Danillo	Gnat		95	-29	-14	2027	99	-297	+0,05	+0,13	+0,05	-17	+1	-9	-34	+11	-14	95	-143	100	101	99	96	94	95	96	99	108	101	103	100	104	104
Ves	NL 886061472	Rh Inseme Mogu Barreto		Mogul	Bogart	Nat		82	-37	+8	194	90	-221	+0,21	+0,05	+0,06	+9	-3	-5	+5	+18	+33	75	-190	96	99	102	94	101	105	99	70	97	99	100	96	97	
Ves	NL 758724290	Weggelhorster Combi The One		Surefire	Mascol	Nat		83	-37	-28	103	92	-126	-0,09	+0,13	-0,17	-13	+7	-21	-5	-27	+2	78	-64	100	100	98	99	101	110	95	78	104	101	94	100	98	98
Ves	IT 024990274239	Campogallo Zamagni		Super	Active	Gnat		95	-49	-10	2113	99	-420	-0,13	-0,10	+0,01	+6	+5	+20	+39	-23	+6	94	-96	99	94	102	98	91	101	98	97	104	100	105	91	99	99
Sam	NL 893612674	Mastenbroeker Fletcher		Emerald	Paramount	Nat		86	-53	-2	146	94	+725	-0,33	-0,11	+0,01	-1	+15	+34	+70	+0	-4	84	-297	98	93	99	94	100	97	99	86	103	103	101	101	102	102
Ves	NL 746035111	Farmers Wish Wag. Madiba		D Mason	Active	Nat		95	-53	-15	2025	99	-892	+0,55	+0,15	-0,03	+6	-19	-43	-78	-7	+53	94	+106	97	98	100	103	103	109	98	96	95	93	96	97	94	94
Toe	NL 716258904	Lv Btb Productivo		Level	Prince	Nat		90	-54	+7	546	97	-846	+0,11	+0,08	-0,03	-27	-23	-41	-163	+13	+48	85	-122	104	102	102	102	94	100	98	91	95	93	91	93	89	89
SZO	IT 033990287543	All.Nure Secretariat		Numero Uno	Altabaxter	Gnat		91	-56	-9	458	96	-383	-0,14	-0,06	+0,06	-28	-18	-12	-136	+11	+1	87	-148	97	100	103	94	100	111	101	94	105	101	108	93	102	102
Sam	NL 712321327	Weggelhorster Ashburton		Maik	Garrison	Nat		95	-57	-3	1737	99	+287	-0,17	-0,12	-0,04	-3	-1	+9	-8	-7	+24	95	-188	91	100	100	97	99	104	99	96	99	100	100	101	100	100
WWS	US 3013721049	Mr D Apple Diamondback	RF	Doorman	Talent	Nat		90	-60	+7	513	97	-45	-0,33	-0,07	+0,00	-31	-8	-2	-99	-21	-35	85	+0	101	97	99	95	104	102	96	96	100	103	110	99	105	105
Sam	NL 926622612	Weggelhorster Undercover		Emerald	Prince	Nat		90	-63	-77	618	97	-742	+1,13	+0,22	-0,14	+60	-8	-45	-80	+19	-6	88	-387	97	97	98	99	99	97	97	91	104	101	94	99	98	98
Sam	NL 715903919	Grashoek Ice Age		Iceman	Superman Ps	Nat		80	-83	-27	114	91	-553	+0,38	+0,00	+0,00	+8	-19	-25	-69	-12	+37	74	-292	94	102	100	98	97	99	98	79	96	95	94	95	92	92
Toe	NL 664796662	Bons-Holsteins Kobra	CD	Doorman	Lauthority	Nat		81	-83	+2	144	91	+272	-0,46	-0,28	+0,00	-30	-16	+12	-125	+9	+5	74	-175	101	100	102	96	101	92	92	84	100	100	103	93	98	98
Sam	NL 717846135	Keyenberg Linedancer	PO	Maiki	Enorm Pp	Nat 2n		84	-86	+20	219	93	-267	+0,21	-0,12	-0,08	+7	-20	-19	-73	+43	+5	77	-151	100	97	88	91	97	99	97	85	103	102	100	101	102	102
Ves	NL 695320074	Weggelhorster The Answer		Lonar	Northern	Gnat		96	-88	-9	1870	99	-609	+0,13	+0,06	-0,12	-15	-16	-38	-109	-9	+61	95	-211	97	100	92	96	89	100	99	96	97	97	90	100	93	93
Sam	NL 947608424	Batenburg Geronimo	RF	Maik	Fidelity	Nat		95	-89	-9	1653	99	+769	-0,35	-0,18	-0,14	-1	+9	+22	+41	+9	-3	95	-106	91	99	94	91	102	104	91	96	98	99	96	103	99	99
Sam	NL 693632559	Rohorst Pioneer	RF	Malando	O Man	Nat		86	-95	+5	190	95	-1089	+0,71	+0,27	+0,05	+9	-17	-46	-65	-70	-16	83	-405	97	101	95	98	97	100	100	81	106	102	98	95	98	98
Sam	NL 741835585	Farmers Wish Olbia		Spell	Roumare	Nat		85	-96	+3	283	93	+21	-0,33	-0,19	-0,03	-28	-16	-2	-125	-24	+24	78	-73	98	100	96	94	94	103	97	86	96	97	97	92	93	93
ABS	US 74024987	Pine-Tree Firefly		Woodcrest Mo	Supersire	Gnat		90	-98	-30	622	96	-1719	+1,37	+0,59	-0,09	+25	-18	-85	-47	-71	+14	84	-538	101	97	97	113	107	102	97	94	102	99	103	90	97	97
Sam	NL 715904051	Grashoek Talent	RF	Vitality By	Sunflower Ps	Nat		87	-105	-2	283	95	-550	+0,34	+0,05	-0,05	+5	-15	-29	-60	+13	-3	81	-323	96	98	91	97	101	110	101	85	103	102	99	97	99	99
Sam	NL 641090301	Grashoek MoneyMaker	RF	Maik	Albrior	Nat		94	-108	+2	769	99	-261	+0,21	+0,02	-0,04	+7	-7	-15	-19	+11	+12	93	-376	93	100	93	96	99	97	97	93	97	99	95	97	95	95
CRV	CA 12545306	Phryso Sheik Pb	RF	Phryso Milky V	Magna P	Nat		70	-118	+15	59	83	-302	-0,40	-0,23	+0,13	-47	-30	-3	-223	+2	+39	61	-157	98	99	98	94	103	98	93	73	99	97	108	95	101	101
Sam	NL 721480536	Mentor		Maik	Bonatus	Nat		93	-119	-79	691	98	-325	-0,08	+0,10	-0,08	-21	-3	-22	-63	-9	-60	82	-190	94	98	102	98	101	100	98	92	99	104	93	98	96	96
Kam	NL 768733756	Danshot		Danillo	Shottle	Gnat		95	-119	-27	2125	99	-481	-0,08	-0,03	+0,13	-27	-19	-11	-138	-29	-2	93	-267	98	97	95	96	100	100	92	99	102	101	109	99	105	105
Mas	DE 0357079998	Buono		Balisto	Hammer-Creek	Gnat		91	-128	+12	443	97	-521	+0,67	+0,42	-0,13	+34	+17	-35	+131	+14	-39	85	-521	88	95	94	98	99	108	99	93	102	99	100	95	98	98
WWS	US 3125220760	Our-Favorite Undenied		Solomon	Atwood	Nat		86	-148	-12	207	93	-51	+0,01	-0,30	+0,04	-1	-28	+1	-117	+5	-34	77	-550	98	97	101	98	107	103	92	91	96	99	107	94	99	99
Sam	NL 944326422	Weggelhorster Wind Of Change		Surefire	Peinzer Boy	Nat		79	-156	-33	88	89	-1271	+0,20	-0,14	+0,00	-39	-55	-58	-325	-53	-49	72	-261	100	103	96	88	103	105	102	75	107	104	94	98	98	
Toe	NL 489543100	Bio Proostmeer Henkiebov		Altdadman	Sunny Boy	Nat		74	-162	+11	56	88	-1384	+0,18	+0,07																							