

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

KI Stiernummer Ai Bull number	Stiernaam Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B S	N 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 Temp	MS MS	Kgh CLW	Bt Rel	F F	T DS	U U	B F&L	Ext T		
																																					pnt	Productie €
Syn	FR 2215096502 DE 0364200875 DE 0364770275		Ridercup Rover Sunrise	Yearwood Adaway Chilton	Gfw Gfw Gfw	67 67 67	+400 +399 +399	+104 +74 +80		0	72	+2143 +2724 +3470	-0,14 +0,04 -0,16	-0,03 -0,18 -0,14	+0,05 +0,07 +0,09	+76 +120 +128	+71 +102 +104	+103 +132 +170	+480 +593 +743	+3 +42 +121	+4	+5	+1216 +826 +608	111 105 102	105 104 101	106 104 99	101 108 107	102 101 102	103 109 108	83 83 84	102 100 104	109 110 103	103 106 107	107 106 107				
Syn	DE 0364207315		Rockwell	Rover	Gfw	67	+385	+78		0	75	+1360 +1591	+0,36 +0,26	+0,09 +0,11	+0,03 +0,13	+84 +95	+86 +86	+446 +496	+170	+54	+76	+938	104	107	104	107	102	101	109	84	98	99	112	103	107	107		
CRV	NL 892757867		Delta Activator	Flagstone	Gfw	70	+383	+0		0	72	+1829	+0,38	+0,11	+0,04	+118	+75	+89	+580	+78	+43	+77	+685	109	100	106	101	99	100	112	85	107	103	106	110	111	107	
GGI	DE 036448451		Hmo Starling	Prosperous	Gfw	67	+380	+39		0	72	+1829	+0,38	+0,11	+0,04	+118	+75	+89	+580	+78	+43	+76	+803	106	103	103	100	103	102	108	83	97	102	108	99	103	107	
CRV	US 3247843793		Peak Hylander	Holysmokes	Gfw	67	+380	+45		0	72	+1749	+0,35	+0,12	+0,01	+111	+74	+81	+560	+29	+75	+78	+603	107	105	107	102	100	98	103	83	91	95	107	98	99	107	
CRV	BE 417449569		Zwanebloem Rapido	Tribute	Gfw	68	+372	+23		0	74	+2652	+0,06	-0,16	+0,05	+106	+74	+127	+562	+20	+49	+75	+702	109	103	104	102	100	92	105	84	93	92	106	97	98	107	
CRV	DE 0364025013		Bigpack	Bigshot	Gfw	68	+369	+92		0	73	+1470	+0,11	-0,03	+0,02	+74	+48	+69	+372	+19	+70	+75	+1046	111	108	107	98	102	98	101	84	100	102	104	98	101	107	
NL	612816158		Midwolder 1615	Reloader	Gfw	70	+367	+0		0	76	+1730	-0,29	-0,08	+0,17	+43	+52	+97	+327	+0	+77	+78	+1104	114	103	104	104	103	94	104	85	100	100	108	103	106	107	
GGI	NL 597161748		Dykster 3star Magello	Migel	Gfw	68	+364	+75		0	73	+2857	-0,48	-0,23	+0,09	+65	+72	+141	+471	+50	+28	+76	+778	107	105	108	103	102	99	107	84	104	102	111	98	106	107	
CRV	NL 645011243		Delta Tally-Ho	Therapy	Gfw	70	+364	+0		0	75	+141	+0,39	+0,51	+0,04	+41	+51	+10	+297	+0	+42	+77	+959	107	105	106	102	100	101	71	85	102	104	106	110	110	107	
RDe	NL 578911629		Glax Delta	Gladius	Gfw	69	+361	+19		0	75	+2166	+0,03	+0,02	+0,04	+95	+78	+103	+549	+60	+62	+77	+731	108	100	102	101	104	98	107	84	93	98	106	101	101	107	
CRV	NL 575774137	RF	Delta Statement	Warren P Rf	Gfw	69	+360	+0		0	74	+1605	+0,09	+0,23	+0,12	+77	+80	+86	+512	+0	+40	+77	+415	104	106	104	103	103	100	108	85	102	103	108	107	109	107	
CRV	NL 607240070		Delta Nobrainer	Frigrant	Gfw	70	+354	+51		0	76	+586	+0,78	+0,22	+0,21	+98	+41	+47	+382	+7	+63	+77	+840	110	103	105	103	102	98	107	85	101	101	105	106	106	107	
DE	0542440408	RF	Ph Calador	Camus	Gfw	68	+354	+0		0	74	+1974	-0,25	-0,15	+0,07	+57	+52	+98	+360	+0	+3	+75	+994	109	107	107	106	100	99	106	84	90	98	108	103	103	107	
DE	0124762725		Kax Target	Aeromsmith	Gfw	68	+353	+90		0	74	+1913	-0,06	+0,01	+0,06	+75	+68	+94	+462	+53	+1	+75	+779	109	107	105	97	103	100	102	84	98	102	112	97	104	107	
DE	0364970559		Mok	Ridercup	Gfw	67	+351	+115		0	73	+2382	-0,19	-0,12	+0,03	+80	+69	+112	+483	+12	+7	+75	+1124	105	103	106	100	102	98	105	84	106	106	105	103	107	107	
DE	0542177435		Zfz Minos	Monteverdi	Gfw	67	+350	+0		0	73	+1425	+0,40	+0,03	+0,01	+102	+53	+66	+451	+0	+27	+75	+797	105	104	107	105	103	101	110	84	98	104	110	100	105	107	
IT	033990585217		All Nue Wendat	Einsteint	Gfw	70	+348	-11		0	76	+2293	-0,16	+0,02	+0,06	+79	+82	+111	+533	-44	+16	+77	+738	103	104	106	105	102	96	107	85	105	104	109	100	105	107	
CRV	NL 745811471	RF PO	Delta Universe P	Drone Pp	Gfw	70	+346	+2		0	75	+2002	+0,25	+0,20	+0,13	+112	+91	+105	+636	+39	+49	+77	+418	106	97	104	106	101	95	105	85	101	103	102	109	107	107	
DE	0365004661		Wwv Surfer	Sunrise	Gfw	67	+345	+0		0	73	+2752	-0,06	-0,12	+0,04	+110	+82	+130	+605	+0	+61	+75	+539	103	102	102	101	99	107	83	96	101	107	97	101	107		
DE	1406906545		Sha Zangani	Altazinger	Gfw	67	+344	-1		0	73	+1291	+0,29	+0,12	+0,01	+84	+57	+60	+428	-48	+20	+75	+655	110	108	107	105	102	106	84	100	101	104	94	99	104	107	
NL	731974638		Delta Tavern	Gladius	Gfw	68	+342	+63		0	74	+1976	+0,02	+0,00	+0,02	+96	+69	+92	+491	+27	+41	+77	+556	105	100	103	100	103	100	84	97	100	111	104	107	107		
CRV	DE 0541272284		Hgh Mike	Migel	Gfw	67	+339	+90		0	73	+2801	-0,50	-0,28	+0,10	+60	+65	+139	+431	+39	+8	+76	+1093	108	102	104	98	103	98	103	84	106	103	108	104	109	107	
K&L	DE 0363456320		Vh Starwar	Star P	Gfw	68	+338	+7		0	73	+2234	-0,10	-0,03	+0,11	+84	+74	+114	+510	+45	+63	+78	+605	103	102	103	103	96	100	108	84	99	103	104	104	106	107	
Kam	NL 578535296	PO	Double W Magic P	Amuse	Gfw	71	+338	+99		0	77	+1305	+0,19	+0,11	+0,09	+75	+57	+69	+409	+78	+39	+78	+1037	109	103	104	99	101	94	105	86	103	102	104	100	103	107	
CRV	NL 611978899	RF PO	Delta Blue Zone P	Fair Play P	Gfw	70	+338	+0		0	75	+1076	+0,11	+0,16	+0,12	+57	+53	+61	+352	+0	+5	+77	+989	112	99	106	101	100	97	114	85	103	104	104	106	107	107	
DE	0364207321		Wkm	Sunrise	Gfw	67	+337	+24		0	73	+1794	+0,07	-0,05	+0,02	+84	+57	+84	+434	+4	+48	+75	+712	107	104	106	106	102	102	107	83	97	100	107	99	102	107	
DE	0364434909		Mar Vh Rains	Ridercup	Gfw	67	+336	+106		0	73	+1253	-0,28	+0,16	+0,04	+81	+60	+61	+433	+27	+36	+75	+917	104	106	106	103	101	101	105	84	102	103	105	100	104	107	
CRV	NL 679815895		Delta Designer	Perfect	Gfw	70	+336	+11		0	75	+1496	-0,12	-0,02	+0,17	+51	+50	+86	+333	-42	+49	+78	+876	110	100	104	104	95	98	106	86	105	108	111	112	107	107	
DE	0541746894		Ocd Rur Remember	Progenesis Rhct	Gfw	67	+336	+107		0	73	+1652	-0,09	-0,15	-0,02	+61	+42	+73	+323	-23	+35	+75	+940	109	107	104	105	105	97	105	84	99	101	110	100	105	107	
NL	610760699		Dykster 3star Gladstore	Gladius	Gfw	67	+335	+62		0	73	+1148	+0,50	+0,11	+0,02	+99	+51	+54	+433	+15	+25	+75	+590	107	105	106	97	102	95	109	84	97	101	111	97	103	107	
NL	621423657		Poppe 3star Electrolux	Monteverdi	Gfw	68	+335	+78		0	74	+862	+0,22	+0,07	-0,01	+58	+37	+38	+285	+30	-2	+75	+1031	111	105	106	102	106	99	110	84	92	98	108	103	103	107	
DE	0362052128		Sunrise	Superfly	Gfw	68	+334	-6		0	74	+2903	-0,16	-0,23	+0,08	+104	+74	+142	+561	+46	+58	+75	+645	105	101	106	100	99	103	104	84	95	102	106	96	100	103	107
Syn	US 3229343814		Gentry	Arroz	Gfw	67	+3																															



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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+5,5\*UGH+6,5\*VRU+2,0\*Uier+2,5\*Beenwerk+2,0\*GEB+3,0\*KGH+0,37\*VKV  
 NVIdubbeldoel = 0,33\*Inet+0,09\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLi

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

KI Stiernummer Ai Bull number	Stiernaam Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B S	N N	Bt Rel	NVI NVI	+/- +/-	Productie										Functioneel										Exterieur						
										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 Temp	MS MS	Kgh CLW	Bt Rel	F F	T DS	U U	B F&L	Ext T
<b>Melkdoel Zwart</b>																																				
Tot	DE 0542449280 NL 634724703		Rover Captain	Copyright Charl	Gfww	67	+300	n	0	73	+1779	+0,21	-0,10	+0,01	+98	+51	+82	+439	n	+32	75	+700	102	103	105	105	104	105	106	84	103	102	109	99	106	
Kam	US 3251555435 NL 563482167 DE 1306794411		Altapowderbuck Riavoesso	Altazazzle Cameron	Gfww	67	+300	n	0	73	+1669	+0,15	-0,04	+0,04	+87	+54	+80	+427	n	+20	75	+548	109	106	105	101	104	101	101	83	100	103	111	95	104	
GGI	DE 0542202582 ES 1705391940 DE 0362080669		Madtime Af Sunrise Sunfort Et Gallius	Mañomes Sunrise Gywer Rdc	Gfww	67	+299	+12	0	73	+1808	+0,03	+0,03	+0,00	+80	+66	+83	+463	+4	+28	76	+579	105	103	103	103	104	103	104	83	102	103	106	100	104	
AWE	DE 0124167904 FR 2933739213 DE 1262598882		Has Pessoa Roddick Mbl Simas	Proximo Gigabyte Padawan	Gfww	68	+299	+30	0	74	+1747	+0,02	-0,02	+0,01	+76	+59	+81	+425	+18	+25	76	+571	105	102	104	104	102	101	107	84	101	102	108	103	106	
CRV	BE 118992106 DE 0364513553 DE 0542338784		Delta Swain PP Vh Rahim Bey Comet	Simon P Rover Palmer	Gfww	71	+299	+69	0	77	+1753	-0,06	-0,08	+0,08	+68	+53	+89	+384	+15	+29	77	+910	107	101	103	102	101	100	104	86	100	103	104	102	104	
CRV	NL 637119320 DK 262762		Delta Fundament P Vh Slyppr Shuba P	Vulcano P Vh Sly Pp Rc	Gfww	70	+299	+28	0	75	+1718	+0,17	+0,29	+0,03	+47	+53	+36	+326	-30	+49	77	+562	105	103	102	105	105	109	113	86	101	104	109	107	98	
BGA	NL 964753138		Goku Delta Miri Et	Gladius	Gfww	69	+298	-10	0	75	+1982	+0,02	+0,03	+0,02	+86	+72	+93	+503	-37	+64	77	+411	101	102	105	101	103	100	106	84	97	100	104	102	102	
Syn	DE 1406667633		Bigshow	Bigshot	Gfww	67	+298	+60	0	73	+1538	+0,47	+0,04	+0,02	+114	+58	+72	+498	+8	+42	75	+487	106	105	101	93	100	103	99	84	103	102	101	99	101	
CRV	US 3215426004		Peak Vittorio	Peak No Excuse-	Cascade	Gfww	68	+298	+74	0	74	+1891	-0,03	-0,01	+0,05	+77	+65	+92	+454	+58	+2	75	+732	105	104	106	96	102	101	102	84	100	101	112	93	103
GGI	NL 573428566		Zstar Poppe Manitu	Manhattan	Durabie	Gfww	69	+298	+35	0	75	+2013	-0,11	-0,06	+0,08	+73	+63	+101	+439	+85	+33	76	+589	103	105	104	97	103	101	100	84	98	103	109	103	106
Adv	DE 0541864594 DE 0956859300 US 3209481467 DE 0363304486		Bey Bg Vincent Forino Sandy-Valley Paraguay-Et Cardenal	Metro Fortnite Casino Legacy	Gfww	67	+298	+39	0	73	+1744	-0,11	-0,01	-0,01	+62	+80	+79	+400	+17	+24	75	+516	107	105	105	97	105	99	106	84	100	100	103	100	102	
Adv	NL 896170339 DE 0542054738		Dragon Delta Flirt T-Spruce Ruw Amazing	Camden Drost Magister Arroz	Gfww	68	+298	+24	0	74	+1591	-0,15	-0,12	+0,05	+52	+43	+78	+307	-2	+7	76	+682	108	106	103	105	101	107	84	97	101	99	104	106		
CRV	DE 0364400339 DE 0124905721 NL 611978969		Mar Vh Salto Abaco Delta Deryn	Sunrise Aeromsmith Flagstone	Gfww	67	+297	-16	0	73	+2059	+0,25	-0,02	+0,04	+115	+70	+98	+557	+6	+45	75	+425	103	102	105	98	100	102	101	83	98	101	106	96	101	
CRV	DE 0364275090 DE 0364485847 DE 0771057678		Exception Weh Camouflage Gordon	Furnace-Hill Exc Camus Gladius	Gfww	67	+296	+92	0	73	+1160	+0,46	+0,03	-0,04	+95	+43	+49	+391	+99	+33	75	+697	106	104	105	101	101	103	103	83	102	101	105	101	104	
Kam	DE 0364214905 FR 2235672441 NL 713229349		Rios P Rdc Rolif Van Riel Holsteins Rens	Ridercup Gen Goodlife Rioavesso	Gfww	67	+295	+41	0	73	+1288	+0,12	+0,04	+0,03	+67	+49	+62	+359	+39	-23	75	+740	108	106	102	101	102	101	105	84	100	103	111	98	105	
GGI	DE 1262598996		Bender	De-Su Legend Ba	Superhero	Gfww	70	+295	+72	0	75	+529	-0,08	+0,03	-0,04	+15	+21	+20	+125	-13	+58	77	+962	106	111	105	103	102	99	109	85	93	98	108	101	102
CRV	NL 578415842 DE 0364006339		Delta Turnout Whn Ghana	Simon P Copyright	Gfww	68	+294	n	0	74	+2107	-0,15	-0,02	+0,06	+73	+71	+103	+473	n	+15	77	+703	106	99	103	100	100	100	103	84	96	103	109	102	105	
K&L	DK 05725907510 NL 894523726 Syn		Vh Garfield Gipsy Delta Vulcano P Vho Belifini Et	Garfield Nippon P Blumenfeld Jedi	Gfww	68	+294	+44	0	73	+577	+0,69	+0,29	+0,05	+89	+47	+31	+387	-22	+5	76	+524	111	105	104	106	104	98	102	84	99	100	104	107	106	
CRV	US 3239114880 NL 6129534486		Peak Souلمان-Et Midvolder Unimitted Heidifarm Collector	Altazacelite Rioavesso Altazapinko	Gfww	67	+293	+2	0	73	+1220	+0,61	+0,22	+0,01	+113	+65	+57	+520	-19	+8	75	+376	102	104	106	101	108	102	103	83	100	102	109	98	104	
Tot	NL 740210262 DE 0124815989 DE 1505231282		Dg Just In Time Dublin Khe Facility	Captain Dublin Foreman	Gfww	69	+293	+5	0	75	+1954	-0,01	-0,07	+0,02	+82	+60	+91	+445	-29	+19	76	+674	105	104	101	95	100	105	84	99	98	107	96	101		
Syn	DE 0541545427 DE 0364274946 ES 3604894080		Aot Ruw Stone Westbury Kinteiro Lavonte Deza Et	Sputnik Rdc Altawheelhouse Lavonte	Gfww	69	+293	+18	0	75	+1644	-0,05	-0,12	+0,08	+65	+45	+83	+344	-21	+25	76	+561	109	106	104	102	104	93	102	84	94	100	111	97	102	
CRV	FR 4926544409 DE 0362285173 CA 14074662		Thiem Hooter Progenesis Magnify	Roddick Altothand Brave	Gfww	66	+292	+23	0	72	+2614	-0,47	-0,22	+0,08	+57	+66	+129	+426	-37	-45	75	+599	110	104	102	98	97	97	101	83	99	107	112	99	107	
Kam	DK 262636 DE 0124905730 NL 613252230		Vh Foreman Fatumap Tel Alpa Skrinser Ruben	Foreman Camus Foreman	Gfww	68	+291	+9	0	74	+1000	+0,59	+0,07	-0,03	+100	+42	+43	+396	+28	+43	75	+571	106	103	103	103	101	103	95	84	95	98	109	100	102	
CRV	FR 5455867490 FR 7923161865 DK 261908		Vh Buzazzo Biniam Vh Freezoo P Fawkesp Sha Roller	Skelton Casper Roanhead Bahrai	Gfww	69	+291	+79	0	75	+970	+0,25	+0,06	+0,05	+66	+40	+49	+316	+99	+25	76	+557	109	104	102	99	97	108	84	96	102	111	100	105		
CRV	DE 1406806668 US 3219939860		Sha Roller Peak Zico	Ridercup Copyright Altajump	Gfww	67	+290	+0	0	72	+50	+0,01	+0,34	-0,04	+87	+28	+6	+297	-128	+22	75	+656	107	106	104	98	102	100	108	83	101	102	109	100	105	
GGI	DE 0541733558 DE 0364843475 CRV		Pro Arizona Syn Royell Delta Hot Stuff PP	Arroz Rover Warren P Rf	Gfww	68	+290	+13	0	73	+1932	-0,08	-0,08	+0,02	+73	+59	+90	+422	-30	+32	75	+718	105	103	103	101	100	99	103	84	94	101	106	99	101	
GGI	DE 0541755166 DE 0363376817 DE 0542317418		Ruw Champion Sunset Eildon-Tweed Ruw Manchester	Clapton Superfly Ocd Legay Mass	Gfww	69	+290	+46	0	73	+1200	+0,16	-0,12	+0,02	+67	+41	+53	+325	+99	+3	76	+594	108	107	106	103	102	104	104	84	100	103	108	99	104	
CRV	US 3245816146 Tot CRV		Genosource Fug Titus P Gen Percival Delta Show Me	Fugleman Captain Yes	Gfww	67	+289	+71	0	72	+1471	+0,49	+0,21	+0,03	+113	+73	+70	+557	+84	+39	76	+452	103	104	102	103	103	104	103	83	99	98	103	90	96	
Kam	DE 0770936161 NL 889684063 NL 736171979		Gin Global Beerzedal Hipo Denzel S.J.K. 7197	Gigabyte Holsmokes Altawheelhouse	Gfww	69	+288	+44	0	75	+1671	-0,11	-0,11	+0,07	+59	+47	+84	+339	+56	+13	76	+471	109	102	103	100	100	95	106	84	99	101	113	100	107	

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

KI Stiernummer Ai Bull number	Stiernaam Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B S	N N	Bt Rel	NVI NVI	+/- +/-	dtrs daus	Productie										Functioneel										Exterieur				
											Bt	kgM	%V	%E	%L	kgV	kgE	Kgl	INET	+/-	BVK	Bt	Lvd	Ugh	Vru	Gin	Geb	KA	MS	Kgh	Bt	F	T	U	B
											€																								
<b>Melkdoel Zwart</b>											pnt																								
CRV	DE 0364924331 NL 577178278 ES 3605289929		Sha Finch Et Warren P Rf	Goliat Rdc Woody	Gfww	67	+288	n	0	73	+1592	+0,02	-0,03	+0,04	+70	+52	+77	<b>+382</b>	n	-9	75	+868	104	103	104	106	105	101	108	83	106	105	109	99	<b>107</b>
CRV	US 3224339465 CA 13483346	RF PP	Delta Gotcha PP Abonko Freestyle Toad Red Et	Warren P Rf Freestyle	Gfww	69	+288	n	0	74	+940	+0,18	+0,20	+0,12	+57	+52	+55	<b>+346</b>	n	+14	77	+402	105	105	103	105	100	99	114	85	101	103	102	106	<b>105</b>
CRV	US 3224339465 CA 13483346	RF PP	Delta Gotcha PP Abonko Freestyle Toad Red Et	Warren P Rf Freestyle	Gfww	68	+288	+59	0	74	+1765	-0,22	-0,17	+0,07	+51	+43	+88	<b>+307</b>	-29	+5	75	+698	112	106	106	99	97	101	101	84	87	91	112	<b>97</b>	
Sem	DE 1505269577 DE 0364919415 DE 0361907418		Aot Eagleheart Peak Nexus Sha Zivet	Furnace-Hill Exc Frazzled Skywalker	Gfww	68	+288	+22	0	73	+1395	+0,08	-0,12	-0,05	+67	+36	+59	<b>+307</b>	-12	+74	75	+663	108	104	103	99	97	101	101	84	87	91	112	<b>97</b>	
Syn	DE 1505269577 DE 0364919415 DE 0361907418		Aot Eagleheart Peak Nexus Sha Zivet	Furnace-Hill Exc Frazzled Skywalker	Gfww	72	+287	+5	0	78	+2209	+0,07	+0,03	+0,08	+101	+80	+110	<b>+570</b>	+89	+33	79	+535	99	100	104	106	103	99	106	86	102	104	108	<b>99</b>	
Syn	DE 1505269577 DE 0364919415 DE 0361907418		Aot Eagleheart Peak Nexus Sha Zivet	Furnace-Hill Exc Frazzled Skywalker	Gfww	67	+287	-13	0	73	+2239	-0,16	-0,16	+0,03	+77	+60	+106	<b>+438</b>	-6	+16	75	+634	103	100	105	99	106	98	107	84	98	102	111	<b>102</b>	
Sem	DE 0541630063 US 3212874372 DE 1273531370	RF	Grip Rdc Cookiecutter Holysmokes Srs Manrico	Grando Red Aot Highjump Et Solitaire P	Gfww	68	+287	+101	0	74	+1579	-0,25	-0,10	+0,03	+41	+45	+75	<b>+292</b>	+20	+66	76	+888	108	103	105	108	100	99	104	84	94	97	107	<b>100</b>	
Sem	US 3212874372 DE 1273531370	RF	Grip Rdc Cookiecutter Holysmokes Srs Manrico	Grando Red Aot Highjump Et Solitaire P	Gfww	68	+286	+1	0	74	+1817	+0,22	+0,04	+0,01	+100	+68	+84	<b>+513</b>	+46	+29	75	+432	104	102	105	99	98	97	99	84	100	103	109	<b>98</b>	
Sem	US 3212874372 DE 1273531370	RF	Grip Rdc Cookiecutter Holysmokes Srs Manrico	Grando Red Aot Highjump Et Solitaire P	Gfww	68	+286	n	0	74	+1419	+0,37	+0,11	+0,06	+98	+61	+71	<b>+475</b>	+68	-3	75	+581	105	102	103	104	104	100	106	84	100	104	108	<b>96</b>	
K&L	NL 626659769 NL 740221264 US 3215425510		Stierkalf 5976 Poppe 3star Manpower Peak Rover	Discjockey Manhattan Altazazelle	Gfww	67	+286	n	0	73	+1764	-0,01	+0,10	+0,04	+74	+72	+85	<b>+475</b>	n	+7	75	+469	106	102	104	105	101	99	103	84	101	101	112	<b>95</b>	
K&L	NL 626659769 NL 740221264 US 3215425510		Stierkalf 5976 Poppe 3star Manpower Peak Rover	Discjockey Manhattan Altazazelle	Gfww	69	+286	-19	0	75	+1698	+0,17	+0,03	+0,08	+90	+62	+86	<b>+466</b>	+3	+63	76	+572	105	101	103	105	101	102	102	84	96	99	106	<b>97</b>	
K&L	NL 626659769 NL 740221264 US 3215425510		Stierkalf 5976 Poppe 3star Manpower Peak Rover	Discjockey Manhattan Altazazelle	Gfww	69	+286	+39	0	75	+1056	+0,71	+0,09	+0,01	+115	+46	+49	<b>+445</b>	+62	-11	77	+495	99	106	106	103	102	107	110	85	100	105	109	<b>105</b>	
CRV	DE 0364300414 DE 0542189057 US 3250267114		Rico Shv Freedom P Pine-Tree Emacs	Ridercup Simon P I Pursuit	Gfww	67	+286	n	0	73	+1073	+0,46	+0,15	-0,02	+91	+52	+47	<b>+419</b>	n	-21	75	+417	106	105	104	100	101	99	106	84	102	105	113	<b>97</b>	
CRV	DE 0364300414 DE 0542189057 US 3250267114		Rico Shv Freedom P Pine-Tree Emacs	Ridercup Simon P I Pursuit	Gfww	67	+286	+103	0	73	+2147	-0,21	-0,15	+0,01	+68	+58	+99	<b>+410</b>	+96	+1	75	+737	108	102	102	96	103	103	102	84	98	103	110	<b>98</b>	
CRV	DE 0364300414 DE 0542189057 US 3250267114		Rico Shv Freedom P Pine-Tree Emacs	Ridercup Simon P I Pursuit	Gfww	67	+286	n	0	73	+942	+0,32	+0,10	-0,03	+71	+43	+40	<b>+338</b>	+28	+66	76	+517	105	106	105	102	105	101	102	84	94	95	109	<b>100</b>	
Tot	NL 626655627 NL 576782751		Zstar Oh Magnoman Delta Present	Foreman Jeronimo	Gfww	68	+286	-7	0	74	+772	+0,34	+0,13	-0,02	+65	+39	+33	<b>+307</b>	-33	+33	76	+590	105	107	104	106	103	101	105	84	101	101	109	<b>102</b>	
CRV	NL 576782751		Zstar Oh Magnoman Delta Present	Foreman Jeronimo	Gfww	74	+286	+30	0	79	+745	+0,25	+0,18	+0,02	+56	+43	+56	<b>+304</b>	+25	+40	80	+457	105	106	108	107	98	104	100	105	102	105	<b>109</b>		
GGI	DE 1604442382		Comeback	Commitment	Gfww	68	+286	+29	0	73	+781	+0,39	+0,07	+0,00	+71	+34	+36	<b>+299</b>	-76	+11	75	+675	107	107	105	101	99	101	104	84	106	103	108	<b>101</b>	
GGI	DE 1604442382		Comeback	Commitment	Gfww	71	+286	+103	0	77	+1196	-0,07	-0,03	-0,02	+44	+39	+53	<b>+269</b>	+39	+32	77	+928	107	105	106	104	99	96	103	86	97	96	109	<b>103</b>	
GGI	DE 1604442382		Comeback	Commitment	Gfww	68	+286	+70	0	73	+960	+0,01	+0,02	+0,02	+42	+35	+46	<b>+245</b>	+33	+5	75	+616	108	107	108	100	102	100	105	84	99	101	111	<b>101</b>	
Syn	DE 0541236984 ES 0911305232		Biermann Holsteins Calgary Omp Egiste De Chanel	Carenzo Garide	Gfww	69	+286	+11	0	75	+119	+0,56	+0,20	+0,10	+55	+22	+14	<b>+207</b>	-10	+44	77	+799	106	105	107	106	104	98	111	84	101	103	110	<b>102</b>	
Syn	DE 0541236984 ES 0911305232		Biermann Holsteins Calgary Omp Egiste De Chanel	Carenzo Garide	Gfww	67	+285	-30	0	73	+2138	+0,16	-0,02	+0,04	+108	+72	+102	<b>+551</b>	-27	-2	75	+866	106	103	104	102	103	102	100	83	103	106	103	<b>96</b>	
GGI	DE 1604380341 DE 0365150360		Sha Sindowner Zz Bench	Sunrise Bennie Rover	Gfww	67	+285	+30	0	73	+2100	-0,02	+0,03	+0,03	+87	+76	+99	<b>+523</b>	+64	+26	76	+564	100	100	102	100	104	100	105	83	97	99	108	<b>103</b>	
GGI	DE 1604380341 DE 0365150360		Sha Sindowner Zz Bench	Sunrise Bennie Rover	Gfww	67	+285	n	0	73	+1735	+0,45	-0,09	+0,03	+121	+51	+82	<b>+487</b>	n	-16	75	+537	102	104	106	104	105	106	106	83	106	103	103	<b>100</b>	
Syn	DE 0364485866 NL 578925776		Bogeda Koepon Matteo	Bigshot Rioavesso	Gfww	68	+285	+23	0	73	+1651	+0,33	+0,00	+0,02	+105	+57	+78	<b>+477</b>	+27	+10	75	+407	104	106	104	100	104	99	99	84	103	105	104	<b>104</b>	
Kam	NL 578925776		Bogeda Koepon Matteo	Bigshot Rioavesso	Gfww	71	+285	n	0	77	+1806	-0,03	+0,06	+0,04	+73	+69	+87	<b>+461</b>	+31	-20	78	+657	105	99	105	103	101	99	107	85	105	107	107	<b>104</b>	
GGI	DE 0363253908		Ruh Cady	Calvin	Gfww	69	+285	+47	0	75	+2134	-0,14	-0,14	+0,06	+75	+59	+104	<b>+429</b>	-6	-14	76	+756	105	102	105	105	99	98	104	85	103	104	102	<b>105</b>	
Sem	CA 13712919		Progeness Monteverdi	Altazazelle	Gfww	69	+285	+14	0	75	+1082	+0,41	+0,09	+0,01	+87	+47	+50	<b>+390</b>	-15	-3	77	+624	105	103	106	107	105	104	110	84	96	103	107	<b>98</b>	
CRV	NL 678740914 DE 0541658067	PP	Delta Landmark PP Schwengers Holsteins Benefit	Rbb Sinan Pp Martin	Gfww	68	+285	n	0	74	+1548	-0,06	-0,01	+0,14	+59	+53	+85	<b>+362</b>	n	-8	77	+830	109	101	99	101	96	101	109	84	105	103	105	<b>102</b>	
CRV	NL 678740914 DE 0541658067	PP	Delta Landmark PP Schwengers Holsteins Benefit	Rbb Sinan Pp Martin	Gfww	68	+285	+53	0	74	+1370	-0,09	-0,03	+0,01	+49	+45	+64	<b>+306</b>	+69	+39	76	+639	101	108	103	104	103	101	110	84	100	101	106	<b>103</b>	
CRV	DE 0362538349 FR 121029557 FR 121029557		Theo Senior	Topstone Guardian	Gfww	71	+285	+20	0	77	+791	+0,29	+0,11	+0,05	+61	+38	+41	<b>+295</b>	-42	-17	77	+602	111	107	103	104	97	94	106	86	104	104	105	<b>100</b>	
CRV	DE 0362538349 FR 121029557 FR 121029557		Theo Senior	Topstone Guardian	Gfww	67	+285	+87	0	73	+1278	-0,10	-0,01	+0,00	+44	+43	+58	<b>+286</b>	+58	+9	75	+813	111	103	101	97	101	96	105	84	97	103	112	<b>99</b>	
Syn	DE 0364062157 CA 13615800 DE 0542114601		Mok Morland Fepro Hothand Factor Ruww Formentor	Melbourne Vh Crown Foreman	Gfww	68	+284	+6	0	74	+2255	-0,32	-0,05	+0,02	+60	+73	+105	<b>+456</b>																	

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

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	Temp	MS	CLW	Rel	F	DS	U	F&L	T		
<b>Melkdoel Zwart</b>																																							
CRV	NL 714907547	Delta Artemis PP	RF PP	Mars P-Red	Casino	Gfww			69	+278	-13	0	75	+1106	+0,38	+0,10	+0,01	+85	+48	+52	€390	-23	+23	77	+415	104	102	104	104	101	97	111	85	98	100	105	104	104	
Tot	US 3252413818	La-Ca-De-Le Duice Noche		Holymscos	Taos	Gfww			66	+277	-5	0	72	+1667	+0,29	-0,03	+0,01	+101	+55	+77	+460	-10	+17	76	+513	107	102	103	97	101	95	100	83	101	102	106	98	103	
K&L	US 3216569383	Bgp Pb Ridercup		Ri-Va-Re Laria	Blumenfeld Jedi	Gfww			69	+277	+49	0	74	+1400	+0,24	+0,00	+0,01	+84	+49	+65	+396	-9	+17	77	+562	103	106	104	100	102	100	103	84	106	104	110	98	107	
CRV	NL 626907101	Delta Veikmar PP	RF PP	Cartoon P	Simon P	Gfww			69	+277	+26	0	75	+1400	+0,18	+0,07	+0,05	+55	+38	+46	+286	-9	-27	77	+985	109	104	101	105	101	99	105	84	102	105	117	99	105	
G&I	DE 1506231276	Khs Fouade		Foreman	Esperanto	Gfww			68	+276	-10	0	73	+1845	+0,28	-0,02	+0,03	+83	+52	+87	+454	+11	+37	75	+454	102	103	106	104	106	102	104	84	106	105	104	100	105	
Kam	NL 928618902	Brakels Bunk	RF	Fair Play P	Esperanto	Gfww			71	+276	-10	0	76	+1194	+0,31	+0,12	+0,18	+82	+54	+73	+410	-9	-7	79	+364	108	101	105	99	100	99	107	86	99	101	105	104	105	
CRV	NL 578156617	Delta Appetizer	RF	Amuse	Jacuzzi	Gfww			72	+276	-5	0	77	+975	+0,33	+0,09	+0,17	+74	+43	+61	+345	+27	+8	78	+657	105	103	103	102	97	93	103	86	105	104	106	110	111	
AWE	FR 7253843259	Pellegrino		Topnotch	Siemers Router-	Gfww			70	+276	+42	0	76	+1669	+0,05	-0,16	+0,01	+66	+41	+77	+330	+53	-43	78	+439	108	106	105	99	106	96	104	85	100	106	113	95	105	
CRV	NL 608748366	Delta Smash		Jeronimo	Martin	Gfww			75	+275	-15	0	80	+770	+0,26	+0,29	+0,02	+58	+55	+37	+358	-13	+43	80	+420	99	104	105	103	106	100	110	88	102	107	109	109		
CRV	NL 563425052	Delta Epicur	RF	Genius	Stanova	Gfww			70	+275	+34	0	75	+911	+0,08	-0,03	+0,11	+31	+29	+52	+196	-35	-13	77	+711	109	104	103	102	99	103	111	85	104	105	109	110	112	
CRV	NL 589817592	Lowlands Believer		Lunar	Altapshot	Gfww			77	+274	+28	0	81	+1193	+0,33	+0,13	+0,10	+84	+55	+65	+418	+4	+40	82	+548	99	101	106	103	103	97	110	89	102	104	108	103	107	
CRV	NL 917636635	Delta Upward		Woody	Waterloo	Gfww			75	+274	+21	0	80	+1583	+0,10	+0,08	+0,14	+57	+63	+87	+400	-40	+21	81	+416	107	98	102	105	97	101	109	89	101	102	105	109	108	
CRV	NL 673698942	Delta Tornado		Skywalker	Esperanto	Gfww			78	+274	+14	0	83	+1821	-0,32	+0,05	-0,05	+43	+69	+78	+397	+19	+26	81	+659	101	103	106	102	100	102	106	88	102	101	108	100	105	
CRV	DE 0956066982	Zaffir		Altazarek	Dynamo	Gfww			72	+273	+62	0	78	+2019	+0,05	-0,04	+0,09	+91	+66	+102	+489	+5	+48	79	+552	103	100	100	103	104	97	105	86	101	103	107	106	102	
CRV	US 3215425396	Peak Fugleman		Altazazzle	Positive	Gfww			69	+273	+58	0	75	+956	+0,67	+0,28	+0,01	+106	+61	+45	+486	-22	+35	77	+408	104	101	99	102	106	104	105	84	98	102	110	96	103	
G&I	NL 899287221	Star Secundus		Simon P	Rubi Agronaut	Gfww			71	+273	+16	0	77	+1715	+0,09	+0,03	+0,08	+82	+63	+87	+454	-9	-15	77	+477	103	101	107	104	99	100	106	85	101	106	106	104	107	
G&I	NL 889323731	Star Pb Krispy		Pinball	Skywalker	Gfww			68	+273	+14	0	74	+1356	+0,33	+0,08	+0,04	+91	+55	+66	+435	+19	+30	76	+377	100	106	106	100	106	101	108	84	102	101	105	96	101	
Syn	DE 0363494059	Arrivo		Arroz	Prosperous	Gfww			67	+273	-42	0	73	+1075	+0,38	+0,08	-0,03	+83	+45	+46	+374	-61	+29	75	+626	106	100	104	100	99	101	106	84	98	101	108	102	105	100
Syn	DE 0363384422	Adwin		Adaway	Legacy	Gfww			68	+273	+2	0	74	+1893	-0,12	-0,18	+0,03	+67	+47	+90	+359	+3	+42	76	+677	104	103	104	106	97	99	104	84	97	101	108	100	103	
OBS	DE 036389961	Muh Pieter		Pikachu	Prosperous	Gfww			68	+272	-3	0	74	+2466	-0,23	-0,16	+0,07	+79	+68	+121	+478	-23	-23	77	+496	103	102	102	99	102	101	107	84	100	102	107	100	104	
Syn	DE 0123860591	Sh Galigner		Gigabyte	Cameron	Gfww			69	+272	+31	0	75	+2273	-0,20	-0,09	+0,06	+74	+69	+110	+469	+16	+20	77	+362	105	102	106	100	102	99	106	84	98	101	107	101	104	
G&I	DE 0363438236	Geromino		Guay	Casino	Gfww			70	+272	+13	0	76	+1658	+0,24	+0,00	+0,07	+96	+58	+83	+462	-8	+42	78	+616	104	99	105	103	99	102	103	85	102	103	109	96	104	
CRV	US 3268014981	F Spruce Jimbeam		George Miller	Conway	Gfww			66	+272	-9	0	72	+1261	+0,46	+0,04	-0,01	+100	+48	+57	+424	+102	+60	74	+636	100	105	105	98	103	105	102	83	102	106	95	101		
Sem	CA 13601301	Claybrook Cracker		Renegade	Foreman	Gfww			68	+271	+36	0	74	+1474	+0,58	+0,06	+0,00	+122	+57	+67	+516	+104	+7	75	+411	103	100	101	105	99	102	104	84	104	105	117	99	105	
STG	DE 0363862170	Coke		Foreman	Crowmaxx	Gfww			67	+271	-19	0	73	+1335	+0,25	+0,16	+0,00	+82	+63	+61	+449	+19	-10	76	+391	103	107	107	106	103	100	105	84	104	106	103	99	103	
CRV	NL 942558953	Delta Coltan P	RF PO	Flagstone	Jawline Pp	Gfww			69	+271	-9	0	74	+449	+0,85	+0,35	+0,15	+79	+48	+34	+369	-9	-55	77	+379	104	101	102	103	98	106	108	84	100	99	106	110	108	
CRV	NL 717031678	Delta Wunderbar PP	RF PP	Smaug Pp	Speedy Red	Gfww			67	+270	-9	0	73	+2360	-0,32	-0,12	+0,06	+64	+69	+114	+449	-9	-48	76	+697	108	103	102	103	101	99	108	84	103	104	108	98	100	
BGA	NL 749006677	Star Belako Gh Classy		Best Benz	Keith	Gfww			70	+270	+5	0	77	+2011	-0,21	-0,06	+0,08	+62	+64	+100	+420	-1	+33	77	+766	108	100	101	99	103	98	98	85	98	99	103	101	101	
Tot	NL 634724640	Dg Seaborn		Captain	Subzero	Gfww			68	+270	+25	0	74	+1232	+0,28	+0,07	+0,01	+80	+50	+57	+390	+24	+19	75	+424	100	105	104	100	103	103	109	84	95	98	113	98	104	
Kam	NL 634506790	Caudumer Jaring	RF	Powerlift Rf	Floris	Gfww			70	+270	-9	0	75	+859	+0,14	+0,10	+0,15	+50	+40	+54	+281	-1	+2	78	+423	111	100	103	101	103	95	107	86	105	102	109	112	113	
OBS	DE 0542159326	Milo		Migol		Gfww			67	+269	-40	0	73	+2056	-0,24	-0,11	+0,07	+61	+60	+101	+402	-182	+22	76	+619	102	103	105	100	104	103	107	83	103	103	105	99	103	
Syn	DE 0770932705	Gigaball Et		Gigabyte	Sonic	Gfww			69	+269	-51	0	74	+852	+0,28	+0,09	+0,04	+63	+38	+44	+300	+12	+25	78	+618	109	102	103	94	104	99	104	84	98	102	110	102	106	
CRV	NL 672156160	Delta Producer		Marpon	Jeronimo	Gfww			70	+268	-34	0	76	+1702	+0,27	+0,11	+0,06	+101	+71	+84	+526	+3	+63	78	+239	101	100	102	104	105	100	102	85	101	104	104	104	105	
CRV	US 32143																																						

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+5,5\*UGH+6,5\*VRU+2,0\*Uier+2,5\*Beenwerk+2,0\*GEB+3,0\*KGH+0,37\*VK  
 NVIdubbeldoel = 0,33\*Inet+0,09\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

**December 2023**

KI Stiernummer Ai Bull number	Stiernaam Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B S	N N	Bt Rel	NVI NVI	+/- +/-	Productie										Functioneel					Exterieur											
										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 Temp	MS MS	Kgh CLW	Bt Rel	F F	T DS	U U	B F&L	Ext T
CRV NL 588825936	Delta Bartender		Gywer Rdc	Esperanto	Gfw		74	+260	+36	0	80	+918	+0,12	+0,05	+0,15	+51	+37	+57	+€21	+12	-€1	80	+641	109	104	103	101	99	96	105	88	105	103	112	101	109
Kam NL 892489628	Meistyle Maine		Nippon P	Legendary	Gfw		73	+260	+71	0	78	+700	+0,01	+0,11	-0,01	+31	+35	+31	+€218	+14	+€1	79	+707	106	106	102	100	102	100	109	88	100	102	108	103	106
CRV NL 597177655	Koepen Runner		VH Crown	Duke	Gfw		73	+259	+34	0	80	+1530	+0,36	+0,04	+0,00	+102	+57	+70	+€469	+42	+29	79	+341	104	102	103	102	101	101	101	87	100	102	106	98	102
GJI NL 625695641	Sstar Oh Funaki		Foreman	Riveling	Gfw		68	+259	-50	0	74	+1064	+0,27	+0,13	-0,02	+72	+50	+47	+€371	-18	+28	76	+437	101	105	104	102	103	102	106	84	102	101	110	100	106
CRV US 3231545388	Pine-Tree Bzean		C-Haven Positiv	Heroic	Gfw		67	+259	+48	0	73	+1139	+0,43	-0,01	+0,00	+91	+39	+52	+€367	+35	-5	75	+445	108	103	106	100	101	103	106	84	105	103	104	97	102
CRV US 3224239380	Kings-Ransom Gallivant		Furnace-Hill Ex	I Pursuit	Gfw		68	+258	+59	0	73	+1753	+0,00	-0,23	-0,03	+74	+37	+77	+€331	+60	-1	75	+783	104	105	105	100	109	106	100	84	102	102	109	100	106
Tot US 3209481407	Sandy-Valley Lovoo		Renegade	Fabulous	Gfw		70	+258	+24	0	76	+1782	+0,14	-0,02	+0,02	+90	+60	+83	+€459	+69	+8	77	+260	104	102	103	101	98	95	101	85	102	105	108	103	107
CRV US 3228764396	Cookiesutter Colombo		Altawheelhouse	Legacy	Gfw		68	+258	+48	0	73	+1388	+0,33	+0,09	+0,00	+93	+58	+63	+€452	-10	+5	75	+223	103	106	105	102	105	103	101	84	106	103	106	97	104
GGI NL 571815449	Koepen Camden Rdc	RF	Solitar P	Imax	Gfw		73	+258	+28	0	79	+1086	+0,25	+0,17	+0,06	+71	+55	+56	+€389	-25	+13	79	+429	106	101	102	105	105	101	108	87	98	102	106	100	103
GGI CA 13440358	Aerosmith Et		Altocroar		Gfw		70	+257	+29	0	76	+1947	+0,05	-0,12	+0,01	+77	+55	+90	+€414	+23	-8	77	+385	105	106	105	104	102	98	101	86	98	101	110	92	101
CRV US 3224955911	Peak Lazevzi		Altazazzle	I Pursuit	Gfw		69	+257	+65	0	75	+937	+0,54	+0,17	-0,02	+93	+49	+41	+€409	+42	+42	77	+326	103	102	104	101	107	108	107	84	95	99	107	98	101
Syn DE 1505012868	Hke Crespo Rdc Et	RF	Crownmax	Salvatore Rdc	Gfw		71	+257	+17	0	76	+2082	+0,05	-0,21	+0,06	+83	+49	+102	+€404	+6	+41	78	+410	107	99	103	96	101	96	104	85	101	103	107	100	104
CRV US 3245608831	Bomaz Cola	RF	Fugleman	Rubels-Red	Gfw		68	+257	-50	0	73	+767	+0,61	+0,22	+0,00	+91	+48	+35	+€398	-97	+37	76	+512	104	101	101	101	103	101	105	84	99	103	111	97	104
K&L FR 4427394649	Speedy P	PO	Altazazzle	Luster-P	Gfw		69	+257	+22	0	75	+643	+0,82	+0,16	+0,00	+105	+38	+29	+€385	-38	+19	77	+339	106	102	103	99	105	102	104	84	98	102	111	99	105
Dek DE 1269727752	Superior		K&I C S Chapter	Gigabyte	Gfw		68	+257	+19	0	74	+644	+0,27	+0,10	-0,03	+53	+32	+27	+€251	-23	-2	76	+456	111	106	107	104	100	95	103	84	101	103	109	97	104
Syn DE 0362842881	Cashflow		Calvin	Gywer Rdc	Gfw		70	+256	-12	0	76	+2255	+0,26	-0,07	+0,10	+67	+71	+114	+€462	-15	-18	77	+443	103	103	105	105	99	97	103	85	101	102	103	100	102
GGI DE 0817899290	Balzac		Brandung P	Durable	Gfw		67	+256	-18	0	73	+1637	+0,07	+0,10	+0,04	+62	+67	+79	+€427	-20	+17	76	+532	101	104	104	100	106	100	101	84	106	105	107	99	106
Tot NL 634724594	Dg Shakir		Captain	Charl	Gfw		69	+256	-18	0	75	+1027	+0,58	+0,09	+0,04	+101	+45	+51	+€410	-71	+64	76	+280	102	107	104	104	100	97	107	84	97	96	99	91	93
Sem CA 14074704	Progeness Portfolio		Manhattan	Milktine	Gfw		68	+256	-3	0	74	+1762	+0,06	-0,10	+0,02	+81	+51	+83	+€403	-42	-36	75	+616	107	101	104	98	103	99	100	84	104	107	112	100	109
AWE FR 2912557964	Rozwill		Woody	Humblenkind	Gfw		73	+256	+34	0	78	+1229	+0,20	+0,09	+0,05	+72	+52	+61	+€381	+41	-8	80	+353	109	99	104	105	105	99	105	88	98	104	111	102	107
CRV NL 648986557	Delta Botic P	RF PO	Fair Play P	Pitcher	Gfw		70	+256	-45	0	75	+1264	+0,11	+0,06	+0,11	+65	+50	+69	+€359	-7	-4	78	+430	104	98	102	100	103	99	114	86	102	104	106	111	110
CRV US 3247634156	Kings-Ransom Dazzlin		Kings-Ransom	Legacy	Gfw		68	+256	+64	0	73	+278	+0,99	+0,22	-0,08	+102	+30	+59	+€341	+8	+47	76	+373	105	105	104	99	102	104	106	84	92	97	105	96	98
Syn DE 0364270459	Francesco		Foreman	Simon P	Gfw		67	+255	+7	0	73	+1011	+0,22	+0,21	-0,03	+65	+56	+44	+€370	+0	-20	76	+539	103	104	103	105	101	103	104	84	105	104	110	103	106
CRV US 3247982128	T Spruce Overjoy		Overdo	Legacy	Gfw		67	+254	-7	0	72	+984	+0,63	+0,07	+0,00	+104	+41	+45	+€400	+93	+58	75	+533	105	103	103	101	102	103	98	83	98	105	96	100	
CRV US 3247634169	Kings-Ransom Dragonball		Goku	Eisaku	Gfw		67	+254	+1	0	73	+1008	+0,41	+0,09	+0,01	+83	+44	+45	+€369	+37	+84	76	+247	105	104	103	102	101	100	101	83	93	95	107	97	99
CRV CA 13807680	Progeness Grandmaster Et		Altazazzle	Tahti	Gfw		69	+254	+68	0	75	+518	+0,77	+0,23	-0,01	+94	+40	+23	+€368	+41	+44	77	+309	103	106	105	105	103	105	104	84	94	93	105	97	98
Tot US 3213892679	Joek Estin Quality-Et		Einstein	Fairmont Stoic	Gfw		70	+254	+9	0	76	+1854	-0,17	-0,13	+0,00	+60	+51	+85	+€360	-20	+47	77	+506	104	104	105	101	106	97	101	85	99	100	107	97	102
Syn DE 0363188669	Aurelius		Arrozo	Huey	Gfw		68	+254	+8	0	74	+1293	+0,10	+0,01	+0,01	+65	+46	+60	+€343	-17	+26	75	+420	104	104	104	101	100	100	102	84	101	102	108	104	107
Tot NL 7373030085	Hul-Stein Hotze P Rf	RF PP	Hulk P	Jacuzzi	Gfw		71	+254	+17	0	77	+27	+0,82	+0,31	+0,01	+71	+26	+0	+€255	-33	+14	78	+647	108	104	104	101	105	97	107	85	97	99	109	97	102
Syn DE 0364300458	Fairbanks		Foreman	Simon P	Gfw		67	+253	+5	0	73	+996	+0,22	+0,22	-0,03	+64	+56	+44	+€378	+3	-20	76	+531	103	103	104	105	101	103	104	84	105	104	110	103	109
CRV US 3214292636	Winstar Zazzle 3171		Altazazzle	Rickland Hughes	Gfw		69	+253	+87	0	74	+703	+0,54	+0,17	-0,01	+81	+41	+31	+€348	-4	+14	77	+496	105	104	103	100	105	101	102	84	98	98	108	101	104
Kam NL 613528083	Skrinos Kordaat		Foreman	Rush Hour Cd	Gfw		70	+252	-7	0	75	+1913	+0,01	+0,10	+0,06	+82	+77	+94	+€514	-7	+2	78	+297	98	99	103	108	103	100	104	85	104	106	105	112	111
GGI DE 1306103665	Zakino		Zekon	Finder	Gfw		72	+252	-18	0	78	+1507	+0,09	+0,11	+0,09	+73	+64	+78	+€436	+30	+25	79	+577	100	101	103	103	101	103	106	86	103	105	104	101	104
CRV US 3238997206	Lady-Manor Onstage		Sandy-Valley Su	Granite	Gfw		68	+252	+6	0	74	+1261	+0,35	+0,04	+0,02	+89	+48	+60	+€401	+20	+83	76	+311	105	103	104	100	102	95	101	84	96	98	104	94	97
Dek DE 0362834393	Superman		Palmer	Axminster	Gfw		68	+252	+44	0	74	+1540	-0,29	-0,02	+0,02	+35	+51	+72	+€304	-4	+11	76	+623	104	103	102	102	101	98	104						

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

KI Stiernummer Ai Bull number	Stiernaam Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B S	N N	Bt Rel	NVI NVI	+/- +/-	Productie										Functioneel										Exterieur					
										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 Temp	MS MS	Kgh CLW	Bt Rel	F F	T DS	U U	B F&L
Tot NL 968270167	S.J.K. Foundation	RF	Captain	Avance Red	GfW	69	+238	+44	0	75	+1443	+20	+0,00	+0,04	+82	+50	+70	+397	+43	+39	76	+311	101	104	102	101	101	99	106	84	101	100	103	98	101
CRV US 3253915523	Ladys-Manor Holysmk Oak		Holysmokes	Granite	GfW	68	+238	+47	0	73	+740	+60	+0,23	-0,04	+89	+48	+30	+394	+58	+19	76	+331	106	104	104	98	101	97	97	84	100	102	107	96	102
GGI DE 0817478162	Camus Et		Hv Crown	Semino	GfW	71	+238	+53	0	77	+1365	+0,08	-0,01	-0,01	+86	+46	+61	+346	+59	+13	78	+588	103	102	103	100	102	103	102	86	90	98	110	101	103
CRV NL 6145153102	Delta Candyman P	RF PP	Nectar P	Rush Hour Cd	GfW	74	+238	+19	0	79	+75	+0,87	+0,43	+0,07	+81	+41	+10	+338	+35	+13	80	+453	104	101	104	104	104	98	105	88	97	101	105	106	103
CRV NL 613536745	Delta Prioclip PP		Fair Play P	Nisoon P	GfW	70	+238	-71	0	75	+1166	+0,07	+0,02	-0,16	+56	+43	+69	+310	+31	-17	77	+395	107	98	104	100	96	101	114	86	107	103	107	105	109
Tot US 3204326921	Wet Kenobi Profit		Kenobi	Frazzled	GfW	73	+238	+99	0	79	+665	+0,07	+0,00	+0,01	+35	+23	+31	+177	+30	+26	79	+817	109	105	104	102	101	99	104	86	101	101	107	96	102
CRV US 3220448507	Matcrest Mi Liu		Hendrx	Husey	GfW	70	+236	-7	0	76	+1747	+0,24	+0,06	+0,06	+100	+67	+88	+508	+36	-5	77	+340	100	101	101	101	105	105	103	84	101	103	108	97	103
GGI DE 0124182627	Thh Smaug PP	PP	Simon P	Match P	GfW	70	+236	+48	0	76	+2869	-0,42	-0,22	+0,05	+72	+74	+137	+494	+78	-54	77	+678	106	103	91	93	100	101	98	85	103	105	105	95	102
CRV NL 590838612	Delta Track		Skywalker	Esperanto	GfW	75	+236	-52	0	81	+1543	-0,32	+0,09	+0,10	+32	+63	+81	+347	+47	-3	81	+646	99	105	104	102	102	105	106	88	102	102	105	100	104
CRV US 3205436800	Fb Lillard		Altarobot	Dynasty	GfW	71	+236	+10	0	77	+744	+0,35	+0,13	+0,01	+65	+38	+35	+302	-37	+2	78	+431	101	105	106	100	97	96	108	85	101	103	103	106	106
CRV US 326155525	Peak Hotjawa		Altakevlow	Altawahelhouse	GfW	66	+235	n	0	72	+145	+1,27	+0,40	-0,10	+104	+30	-15	+340	+31	+7	74	+457	104	107	104	101	104	100	83	99	102	107	94	101	
CRV NL 898653793	Delta Acropolis		Fast Lane	Vh Nader	GfW	68	+235	n	0	74	+993	+0,13	+0,05	+0,05	+55	+39	+50	+289	n	+34	77	+350	103	105	102	101	102	102	100	84	103	104	109	108	111
CRV NL 620605386	Delta Ribbon		Louxor	Jol	GfW	76	+235	-31	0	82	+1055	-0,04	+0,07	+0,02	+41	+44	+50	+281	-68	+36	81	+489	109	105	102	102	103	99	99	88	100	101	100	100	100
CRV NL 679731856	Koepen Cashback		Deliver	Bandares	GfW	75	+235	+14	0	80	+751	+0,16	+0,14	+0,02	+47	+40	+36	+273	-64	+19	80	+637	109	103	104	101	98	100	99	88	104	104	104	100	104
GGI DE 0542183163	Wil Montague		Monteverdi	Honda	GfW	68	+235	+6	0	73	+1428	-0,14	-0,12	+0,02	+46	+37	+67	+268	-12	-2	76	+644	102	104	106	103	102	103	107	84	96	97	113	98	104
CRV US 3224437560	Kings-Ransom R Dynorama		Peak Rayshen	Legacy	GfW	67	+234	-14	0	73	+1008	+0,53	+0,16	+0,03	+95	+51	+49	+422	-15	+15	75	+430	103	102	104	97	101	103	106	84	99	102	102	93	97
Kam NL 578925815	Koepen Kenny		Wake Up	Altaspring	GfW	71	+234	-2	0	77	+1835	-0,19	-0,02	+0,11	+58	+62	+96	+401	+19	+28	79	+439	102	101	99	103	102	100	103	86	103	103	105	104	106
GGI DE 0770618336	Star P	RF PP	Solait P	Semino	GfW	72	+234	+33	0	78	+1453	-0,13	-0,01	+0,16	+48	+50	+83	+326	-37	+54	78	+512	107	101	101	104	99	99	101	86	98	100	109	96	102
Tot US 3212943233	Webb-Vue Passport		Perfect	Positive	GfW	69	+234	+56	0	75	+1219	+0,18	-0,06	-0,03	+70	+36	+53	+311	+178	+22	75	+472	101	103	105	101	101	100	105	84	101	104	109	104	108
BGA DE 0540968123	Gintonic Gh Konu		Gywer Rdc	Silky-Red	GfW	72	+234	+24	0	78	+1347	-0,08	-0,10	+0,11	+49	+37	+73	+273	-10	-8	78	+450	110	103	99	104	97	93	103	86	99	103	110	101	106
GGI DE 0362067925	Rh Milkland	RF	Milktime	Rubi-Asp	GfW	70	+233	-2	0	76	+2582	-0,28	-0,21	+0,09	+78	+66	+128	+470	-33	-12	78	+453	101	98	100	96	102	100	108	85	106	107	105	102	107
GGI DE 1306233783	Rza Casado		Chilton	Salvatore Rc	GfW	72	+233	+45	0	76	+1631	-0,09	+0,06	+0,09	+60	+63	+84	+407	+13	-5	78	+418	102	103	101	95	101	98	104	87	103	103	104	101	104
GGI DE 0842171033	Ph Flash	RF	Foreman	Gywer Rdc	GfW	68	+233	+10	0	74	+1914	-0,20	-0,04	+0,07	+60	+62	+95	+406	+62	+13	77	+394	99	102	104	106	103	107	84	104	101	105	102	105	
Syn DE 0541150892	Astroby Et		Rocketrat	GfW	71	+233	+26	0	77	+1275	+0,35	+0,05	-0,04	+89	+49	+54	+405	+43	+22	78	+228	104	104	104	99	100	98	99	86	102	101	107	97	103	
CRV US 3209481396	Sandy-Valley Enlight		S-S1 Legacy Sp	Brass	GfW	67	+233	+14	0	73	+1108	+0,35	+0,07	-0,00	+82	+46	+51	+376	+22	+26	75	+365	109	101	106	102	104	97	97	84	100	99	110	92	101
GGI DE 1406051280	Sha Foreman		Freemax	Rubicon	GfW	71	+233	-11	0	76	+1232	+0,14	+0,07	-0,01	+66	+50	+55	+360	+6	+22	79	+362	100	104	106	108	103	105	104	85	102	104	100	100	105
Syn DE 0362447911	Bwh Benboy		Benwick	Blumenfeld Jedi	GfW	69	+233	+39	0	74	+889	-0,12	+0,03	+0,01	+26	+34	+40	+206	+15	-6	77	+961	106	102	102	104	105	101	110	84	101	102	106	100	104
Tot US 3128823460	Wilra Daniel Et		Einstein	Husey	GfW	70	+232	+18	0	76	+1369	+0,03	-0,05	+0,01	+61	+43	+64	+323	-10	+37	77	+394	104	106	101	99	99	97	103	85	100	100	107	94	101
CRV NL 873741206	Delta Joyridr P	RF PP	Eloy Rf	Faithful	GfW	74	+232	-58	0	79	+777	+0,19	+0,20	+0,12	+51	+46	+47	+306	-107	-12	79	+447	104	104	104	108	100	98	105	88	102	102	103	106	106
Tot FR 5356942877	Dgf Cash		Charl	Jedi	GfW	73	+232	+51	0	79	+1246	-0,09	-0,02	+0,07	+44	+41	+64	+277	-26	+95	80	+436	106	106	105	104	101	97	97	87	93	93	101	93	94
Sem CA 14074947	Progness Total		Gameday	Altazazzle	GfW	67	+231	-16	0	73	+748	+0,64	+0,21	+0,00	+93	+46	+34	+394	+19	-28	75	+272	100	103	104	99	100	103	104	83	100	104	110	107	110
Syn DE 0364054923	Aeronaut		Aerosmith	Freemax	GfW	67	+231	+35	0	73	+887	+0,25	+0,13	-0,04	+62	+44	+37	+323	+73	-53	76	+392	102	108	106	100	103	101	100	84	99	104	112	102	108
Tot DE 0362537676	Theodor		Tiermlake	All Star	GfW	70	+231	+49	0	76	+1534	-0,19	-0,06	-0,01	+45	+47	+69	+308	+45	+21	77	+597	106	103	98	104	102	99	101	85	102	103	111	100	107
CRV US 3209641779	Peak Goku		Maestro	Marius	GfW	70	+231	+15	0	75	+403	+0,43	+0,23	-0,03	+57	+35	+16	+269	-8	+39	76	+303	106	105	103	99	106	98	105	84	99	103	107	98	103
OBS DE 0541057559	Metro		Merryguy	Supreme	GfW	70	+230	+41	0	76	+1661	+0,33	-0,04	-0,05	+105	+54	+71	+464	+62	+23	77	+307	105	100	101	97	106	100	100	85	99	99	102	98	100
CRV US 3252198065	Peak Hammerhead		Altavertake	Altawahelhouse	GfW	66	+230	n	0	72	+804	+0,68	+0,06	-0,04	+100	+34	+33	+360	n	-14															

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

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	Temp	MS	CLW	Rel	F	DS	U	F&L	T				
<b>Melkdoel Zwart</b>																																									
Kam	NL 575896556	<b>Eastland Amigo</b>		Amuse	Adorable	GfW			72	+222	+59	0	78	+1045	+0,22	+0,08	+0,03	+66	+44	+51	+333	+76	-5	78	+393	102	102	99	93	100	98	107	86	104	107	109	105	110			
Syn	DE 0361951631	<b>Hadi</b>		Altahothand	Gymnast	GfW	74	-222	-4	0	79	+1999	-0,29	-0,21	+0,03	+53	+47	+95	+331	-12	+15	80	+391	104	100	104	98	101	102	104	86	102	103	106	105	107					
GGI	DE 0770936193	<b>Gin Cosinus Et</b>		Riv Crown	Malinus	GfW	71	+222	+43	0	77	+1026	+0,31	-0,02	-0,02	+74	+34	+45	+309	+26	+7	78	+355	107	100	103	101	101	102	104	86	100	101	110	99	105					
Tot	NL 5739581872	<b>Hdt-Steierman P</b>	RF PO	Ritavevo	Jacuzzi	GfW	71	+221	-33	0	77	+1040	+0,65	+0,18	+0,07	+108	+54	+56	+448	-67	-25	78	+149	101	99	105	96	99	102	108	85	102	103	107	107	104					
AIF	US 3217162609	<b>Winstar Anaregulus</b>		Altazazle	Crimson	GfW	69	+221	+54	0	75	+117	+0,26	+0,33	+0,01	+116	+45	+20	+434	+26	-33	77	+416	102	103	105	99	102	103	100	85	103	104	102	93	99					
Syn	DE 0363253909	<b>Ruh Castelli</b>		Calvin	Prosperous	GfW	69	+221	-36	0	75	+2182	-0,10	-0,23	+0,06	+82	+51	+106	+411	-3	+6	77	+440	102	100	104	104	101	103	101	85	99	102	103	103	103					
CRV	NL 572153333	<b>Delta Danim</b>		Skippy	Esperanto	GfW	78	+221	+19	0	84	+937	+0,32	+0,24	-0,15	+71	+56	+28	+387	+56	+7	81	+436	102	95	101	101	103	103	112	88	106	105	104	108	109					
STG	DE 0364055926	<b>Gps PP</b>	PP	Freeswood P	Simon P	GfW	67	+221	-12	0	73	+1796	-0,14	-0,08	+0,00	+61	+54	+82	+374	+37	-31	76	+444	102	101	103	98	97	103	109	84	103	106	110	97	106					
CRV	US 3209641491	<b>Level-Plain Offside</b>		Altalawson	Achiever	GfW	73	+221	+57	0	78	+736	+0,54	+0,18	-0,01	+83	+43	+33	+361	-37	+22	79	+495	103	105	104	106	104	103	98	86	99	100	103	95	99					
Syn	US 3214541108	<b>Tigerman</b>		Rome	Rome	GfW	68	+221	+51	0	73	+1147	+0,17	-0,04	-0,01	+66	+36	+51	+302	+53	-26	75	+351	101	107	104	99	102	100	106	84	104	105	106	102	106					
CRV	NL 614974395	<b>Delta Xander</b>		Floris	Beatbox	GfW	75	+221	-26	0	80	+119	+0,74	+0,29	+0,08	+71	+30	+13	+274	-48	+13	81	+265	98	106	106	103	102	103	108	88	105	104	109	110						
GGI	DE 0770822795	<b>Linux</b>		Lightstar	Altaumulet	GfW	72	+221	+11	0	78	+881	+0,18	-0,02	-0,08	+55	+29	+32	+246	-49	+1	78	+533	106	105	101	99	102	100	103	85	96	99	108	100	103					
Syn	DE 0364104155	<b>Dw Fred Red P</b>	RF PO	Freestyle	Soltair P	GfW	69	+221	+34	0	75	+844	+0,03	+0,06	+0,05	+39	+35	+43	+237	+81	+13	77	+561	104	104	104	104	99	104	84	94	95	102	111	101	105					
CRV	NL 605074718	<b>Delta Endless</b>	RF	Jacuzzi	Finder	GfW	80	+220	-87	0	84	+666	+0,74	+0,18	+0,01	+99	+40	+31	+381	-73	-1	82	+93	104	100	107	101	103	98	106	90	106	103	102	106	106					
GGI	NL 630318564	<b>Poppe K&amp;I San Remo</b>		Soundcloud	Gymnast	GfW	73	+220	+16	0	79	+1379	+0,01	-0,05	+0,07	+60	+43	+70	+321	+22	+20	78	+429	105	103	100	99	102	98	99	86	96	101	110	100	104					
K&L	DE 0363894948	<b>Zb Vh Bayline</b>		Beachboy	Gigabyte	GfW	67	+220	-42	0	73	+1151	+0,08	+0,05	+0,02	+57	+45	+55	+320	-55	-51	76	+350	102	105	103	101	104	101	83	100	103	109	103	107						
Tot	NL 748567375	<b>Sjk Harry</b>		Nacash	Blowtorch	GfW	72	+220	-14	0	78	+824	+0,35	+0,07	-0,02	+69	+35	+36	+300	-51	+20	78	+288	105	103	103	100	103	95	101	86	103	105	109	103	108					
Tot	DE 0541272254	<b>Hgh Prime</b>		Proximo	Hagar	GfW	68	+219	-12	0	73	+1575	+0,12	-0,06	+0,05	+79	+49	+77	+388	-29	-6	76	+471	103	101	103	103	101	105	102	83	100	101	106	99	103					
CRV	NL 737504587	<b>Delta Lixor</b>		Nippon P	Rush Hour Cd	GfW	74	+219	-33	0	79	+35	+0,54	+0,39	+0,03	+46	+33	+1	+232	-107	-65	80	+523	107	103	102	103	106	102	109	88	104	104	107	107	109					
GGI	DE 0362989280	<b>Rho Pogba</b>		Prognesis Publ	Gymnast	GfW	69	+218	-4	0	74	+1692	+0,11	+0,11	+0,05	+83	+70	+83	+484	+17	+10	76	+242	95	104	100	98	103	102	102	84	98	100	108	99	103					
Alt	US 3215425484	<b>Peak Altagaines Et</b>		Altazazle	Positive	GfW	70	+218	-4	0	75	+1013	+0,40	+0,15	+0,02	+82	+50	+48	+391	+12	-7	77	+307	101	102	102	101	107	106	104	84	102	104	109	98	105					
GGI	DE 1273565891	<b>Crimon</b>		Chilton	Fairmont Peak	GfW	71	+218	-29	0	77	+1416	+0,22	+0,02	+0,01	+62	+51	+66	+359	-105	+32	77	+390	103	103	103	101	103	100	102	86	102	101	105	98	105					
CRV	NL 571971538	<b>Delta Traveller</b>	RF PP	Kickoff	Larry Rf	GfW	70	+218	-39	0	75	+379	+0,56	+0,33	+0,11	+68	+44	+27	+328	-168	-12	77	+118	103	100	104	104	98	100	110	85	101	102	104	112	109					
CRV	NL 943081607	<b>Delta Henderson Pp</b>	RF	Hesokiel Pp	My Dream P	GfW	74	+218	+18	0	76	+1196	-0,17	+0,04	+0,01	+34	+46	+56	+276	-23	-8	77	+596	103	105	105	101	107	106	107	85	103	104	108	109	111					
AWE	US 3228764272	<b>Cookiecuter Hot Papa</b>		Conway	Positive	GfW	68	+217	+18	0	74	+1241	+0,45	+0,14	-0,02	+88	+57	+55	+456	+24	+52	75	+314	101	100	100	103	100	97	99	84	100	101	106	97	102					
Tot	US 3220448629	<b>Ttm Taos Energized</b>		Taos	Crimson	GfW	68	+217	+32	0	74	+1627	+0,01	+0,03	+0,03	+70	+60	+77	+415	+83	-25	76	+738	106	102	101	93	99	100	94	84	104	105	102	95	100					
Tot	DE 1306102292	<b>Td Simba P</b>	PO	Simon P	Casino	GfW	70	+217	+63	0	76	+1325	+0,10	+0,08	-0,01	+66	+54	+59	+378	+63	-11	77	+578	101	102	103	105	97	103	102	85	105	104	104	101	105					
CRV	NL 649991095	<b>Delta Steward</b>		Remington	Rush Hour Cd	GfW	74	+217	-31	0	79	+974	+0,11	+0,15	+0,04	+52	+49	+48	+323	-28	+35	80	+404	100	101	104	101	102	103	109	88	100	104	105	102	104					
Tot	DE 0363206549	<b>Tnp Sunny P Et</b>	PO	Simon P	Kerrigan	GfW	70	+217	+58	0	76	+1243	+0,04	+0,01	-0,02	+57	+44	+55	+317	+60	-16	78	+650	105	101	102	104	100	106	103	85	98	101	109	98	103					
CRV	NL 591133789	<b>Delta Trooper PP</b>	RF PP	Butron	Nectar P	GfW	70	+217	-63	0	75	+370	+0,71	+0,22	+0,14	+81	+33	+30	+310	-93	-5	77	+375	106	100	101	106	98	101	108	85	104	103	102	106	106					
CRV	NL 572943695	<b>Delta Bliss</b>		Blessing	Relevant	GfW	74	+217	-69	0	79	+833	+0,01	+0,18	+0,13	+36	+46	+51	+276	-64	+32	80	+490	102	101	104	105	98	102	106	88	103	101	105	106	107					
CRV	NL 679048004	<b>Delta Happy P</b>	RF PO	Nectar P	Esperanto	GfW	74	+217	-20	0	79	+363	+0,33	+0,15	+0,19	+46	+26	+34	+208	-65	+51	80	+535	104																	



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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

**December 2023**

KI Stiernummer Ai Bull number	Stiernaam Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B S	N N	Bt Rel	NVI NVI	+/- +/-	Productie										Functioneel										Exterieur							
										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 Temp	MS MS	Kgh CLW	Bt Rel	F F	T DS	U U	B F&L	Ext T	
<b>Melkdoel Zwart</b>										<b>Productie</b>										<b>Functioneel</b>										<b>Exterieur</b>							
AWE FR 3536377185	Romazy		Gigabyte	Louxor	Gfw		70	+207	+86	0	75	+837	+0,22	+0,10	+0,05	+57	+39	+43	<b>€91</b>	+46	-20	78	+460	111	100	101	99	104	97	99	85	106	105	109	99	107	
Tot FR 2940100144	Dgr Cowboy De Lavel		Janez	Charl	Gfw		69	+206	-31	0	74	+1235	+0,31	+0,04	+0,00	+84	+47	+56	<b>+386</b>	-27	+49	77	+281	103	102	103	102	102	101	97	84	95	98	108	93	99	
Tot US 3204327042	Wet Faneca Madman		Faneca	Renegade	Gfw		67	+206	+12	0	73	+1318	+0,11	-0,10	+0,02	+67	+36	+62	<b>+306</b>	-3	+15	75	+340	105	104	105	98	104	97	99	83	99	103	105	97	101	
Syn DE 036232939	Wet Baslen Et		Basic	Dynamo	Gfw		69	+206	+6	0	75	+1473	-0,18	-0,09	+0,02	+42	+59	+295	<b>-95</b>	+14	+7	+382	104	102	106	102	101	104	104	85	100	102	105	100	103	101	
CRV NL 605027433	Delta Shepe PP	PP	Hotspot P	Finder	Gfw		79	+206	+9	0	84	+260	+0,49	+0,19	-0,14	+56	+26	-1	<b>+224</b>	-43	+0	81	+144	106	107	102	104	102	100	106	89	94	97	104	102	101	
CRV US 218556309	Siemars Orono		Rozline	Delta-Lambda	Gfw		69	+205	+68	0	74	+1324	+0,28	+0,04	-0,02	+83	+50	+58	<b>+397</b>	+70	-31	78	+214	100	104	102	97	100	101	103	84	98	104	104	103	104	
Tot NL 575842148	Dg Espen	RF	Crisalis	Charl	Gfw		69	+205	-33	0	75	+1420	-0,03	-0,07	+0,09	+57	+42	+74	<b>+311</b>	-54	+11	76	+282	105	105	105	102	97	95	99	84	95	98	106	95	99	
Syn DE 0541052060	Sono P	RF PO	Soltair P	Face Red	Gfw		72	+205	+6	0	78	+1332	-0,35	+0,08	+0,06	+21	+54	+67	<b>+284</b>	-10	-2	78	+620	103	102	100	101	99	101	94	104	86	101	102	109	99	105
CRV DE 1404580633	Hph Bassoni		Basic	Altatopshot	Gfw		70	+205	+76	0	75	+1091	-0,16	-0,11	+0,01	+30	+27	+51	<b>+188</b>	+34	-2	77	+716	105	104	104	103	104	97	102	85	96	103	107	102	104	
CRV DE 0361986020	Kns Georgio PP	PP	Simon P	Mission P	Gfw		71	+204	+5	0	77	+1861	-0,06	+0,00	+0,01	+73	+65	+86	<b>+445</b>	+37	+23	78	+261	103	97	103	100	97	98	104	85	98	99	104	96	99	
Sem CA 13424745	Westcoat Rocknroll		Pyramid	Alcove	Gfw		69	+204	-9	0	74	+832	+0,45	+0,13	+0,01	+79	+42	+39	<b>+349</b>	+15	-93	76	+468	102	107	103	98	103	100	104	84	101	107	106	96	102	
BGA NL 684554477	Hoewe Triburg Calgary Delta Tr		Vh Crown	Esperanto	Gfw		74	+204	+6	0	80	+1395	-0,09	-0,06	+0,09	+50	+42	+73	<b>+296</b>	+10	-10	80	+391	106	102	104	104	98	102	102	88	106	104	104	101	105	
GGI DE 0363111565	Gga Hawk P Rdc	RF PO	Hulk P	My Dream P	Gfw		69	+204	+13	0	75	+315	+0,44	+0,31	+0,01	+54	+39	+15	<b>+278</b>	-75	+6	77	+425	105	103	100	99	102	101	104	84	95	99	110	96	102	
CRV NL 658239214	Delta Foster PP	PP	Nippon P	Trust	Gfw		74	+204	-45	0	79	+537	+0,26	+0,18	+0,11	+47	+36	+35	<b>+254</b>	-82	+22	79	+303	102	105	103	101	101	103	105	88	94	97	107	101	102	
CRV NL 692183669	Delta Pineapple P	PO	Nippon P	Waterloo	Gfw		75	+204	-26	0	79	+538	+0,16	+0,15	+0,16	+38	+33	+40	<b>+222</b>	-46	+7	80	+465	105	105	98	101	102	103	107	89	105	102	105	100	104	
Kam NL 654819067	De Vlog Wilsons		Treasure	Jetset	Gfw		79	+204	+53	0	85	+856	+0,16	-0,06	-0,02	+52	+24	+41	<b>+220</b>	+1	+13	82	+457	106	101	99	105	104	99	107	89	103	101	101	102	103	
K&L DK 04240505470	Vh Norland Newstar		Norland	Silver	Gfw		69	+204	-21	0	77	+355	+0,47	+0,04	-0,05	+58	+16	+12	<b>+192</b>	-54	+49	78	+378	103	103	106	104	103	101	104	85	96	101	109	104	106	
Tot FR 4935907891	Reflex P		Nacash	Adagio-P	Gfw		71	+204	-7	0	77	+870	-0,05	-0,03	+0,04	+32	+27	+44	<b>+190</b>	-67	+9	79	+600	100	104	105	101	104	102	108	86	105	105	108	105	109	
US 3219743066	Lars-Acres Marengo		Conway		Gfw		68	+203	-17	0	73	+1143	+0,31	+0,01	-0,01	+79	+41	+51	<b>+350</b>	-46	+63	75	+282	102	104	103	103	102	100	95	84	95	96	106	96	99	
Kam NL 964733781	American Dreamtime P	RF PO	Abundant P Rf	Jacuzzi	Gfw		76	+203	+14	0	80	+273	+0,74	+0,27	+0,19	+79	+34	+30	<b>+309</b>	+35	-13	81	+243	105	98	101	100	96	109	89	108	105	105	109	111		
CRV NL 760558454	Delta Component		Skippy	Magister	Gfw		76	+203	+30	0	81	+7	+0,83	+0,42	+0,03	+74	+37	+3	<b>+307</b>	+22	+12	81	+234	109	98	100	103	101	100	103	88	104	101	108	103	107	
Kam NL 690876248	Fleurop		Floris	Magister	Gfw		75	+203	+15	0	80	+19	+0,52	+0,22	-0,01	+47	+20	+0	<b>+181</b>	+0	+2	81	+423	107	103	105	105	106	100	106	88	105	101	101	107	106	
CRV NL 1143691736	Delta Harby		Skywalker	Topgear	Gfw		74	+203	-39	0	80	+208	+0,43	+0,30	+0,13	+28	+19	+2	<b>+134</b>	-96	+25	81	+627	102	105	105	105	100	101	109	88	101	102	108	101	106	
Syn DE 0362217817	Coden Et		Copyright	Hot Dog	Gfw		71	+202	-5	0	77	+1478	-0,07	-0,10	-0,04	+55	+41	+63	<b>+304</b>	+24	+14	77	+461	101	103	102	104	104	101	105	85	100	104	103	108	105	
Syn US 3209481571	Sandy-Valley Exstasy		Legacy	Legacy	Gfw		67	+202	+4	0	73	+979	+0,16	-0,01	-0,02	+67	+33	+47	<b>+268</b>	-69	+8	75	+563	105	105	104	97	102	102	99	84	97	98	107	100	103	
GGI DE 0770954740	Shs Clapton		Vh Crown	Cameron	Gfw		71	+202	+18	0	77	+1043	-0,13	-0,03	-0,03	+31	+33	+45	<b>+215</b>	-12	-14	78	+488	105	104	104	98	104	102	103	86	90	98	109	102	103	
Syn DE 0362375470	Freewood P	PO	Freemad		Gfw		69	+201	-62	0	75	+1284	+0,27	+0,01	-0,04	+82	+46	+55	<b>+378</b>	+15	+31	77	+199	101	101	100	97	102	103	106	84	97	102	108	96	102	
CRV NL 695045660	Delta Craftsman		Benz	Topgear	Gfw		75	+201	-28	0	81	+1132	-0,14	+0,05	+0,16	+34	+44	+66	<b>+267</b>	-40	-15	80	+407	103	103	103	100	102	99	106	88	103	106	106	103	107	
Kam NL 657288796	Waldclass Flybe		Floris	Rush Hour Cd	Gfw		75	+201	-12	0	80	+939	-0,01	+0,06	+0,10	+39	+39	+53	<b>+254</b>	-47	+9	81	+375	103	102	104	107	101	101	104	88	105	102	104	108	107	
OBS DE 0363787491	Makro PP	RF PP	Matty P	Builder P	Gfw		69	+201	-9	0	75	+923	+0,09	-0,07	+0,07	+48	+25	+49	<b>+216</b>	-48	+34	77	+507	106	99	102	101	101	100	106	85	96	102	111	101	105	
CRV NL 643287912	Delta Supernova		Mangrove	Bandares	Gfw		75	+201	+32	0	80	+281	+0,48	+0,13	+0,06	+56	+22	+18	<b>+211</b>	-18	-4	81	+516	106	101	100	98	101	99	106	88	103	103	104	109	108	
CRV US 3224437487	Kings-Ransom Donkeykong		Adaway Donzino	Legacy	Gfw		67	+201	+44	0	73	+822	+0,19	-0,09	+0,02	+53	+20	+39	<b>+204</b>	+0	+13	75	+449	107	105	105	99	100	100	102	84	98	100	106	96	100	
US 3128190241	Fustyn Parker		Parfect	Brass	Gfw		69	+200	+4	0	74	+1459	+0,12	-0,05	-0,04	+74	+46	+62	<b>+364</b>	+14	+17	75	+325	99	100	107	94	101	104	102	84	100	104	107	103	106	
CRV US 036232855	Weh Forester		Freemad	Frazzled	Gfw		70	+199	-30	0	76	+1510	+0,02	-0,03	-0,03	+66	+49	+66	<b>+360</b>	+11	-16	78	+185	101	102	102	99	101	102	105	85	102	104	108	102	107	
Dek CA 13636716	Rastaball		Fastball	Alcove	Gfw		69	+199	-32	0	75																										

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Publicatie stierindexen Zwartbont genomisch zonder dochters**

**December 2023**

KI Stiernummer Ai Bull number	Stiernaam Bull name	Erf-fact Her-fact	Vader Sire	M-vader MGS	B S	N N	Bt Rel	NVI NVI	+/- +/-	Productie										Functioneel										Exterieur						
										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 Temp	MS MS	Kgh CLW	Bt Rel	F F	T DS	U U	B F&L	Ext T
CRV NL 71497523	Delta Zippo PP Rf	RF PP	Jawline Pp	Abundant P Rf	Gfw	71	+189	+16	0	77	+71	+0,50	+0,23	+0,13	+48	+23	+15	+€96	-72	-4	78	+440	106	102	98	104	104	103	105	86	104	104	105	108	109	
K&L DK 03265803658	Vh Nadier Newyear		Vh Nader	Vh Bahrain	Gfw	68	+188	+4	0	73	-116	+0,78	+0,53	+0,01	+63	+42	-4	+303	-16	-20	76	+341	102	101	103	107	102	103	105	84	92	98	104	98		
Kam NL 586329351	Pedleiker Ardfinnan		Amuse	Mangrove	Gfw	71	+188	n	0	77	+1267	-0,11	+0,02	+0,06	+43	+46	+64	+296	n	-21	78	+621	100	100	103	100	102	103	106	86	105	104	103	105	106	
Syn DE 140458069	Bosvito		Hilmar Bosa	Legacy	Gfw	67	+188	-12	0	73	+698	+0,36	+0,05	-0,01	+64	+28	+31	+265	-30	-71	75	+313	106	106	103	100	103	100	98	83	102	101	107	34	101	
NL 690330640	Lowlands Marigold		Gigantix	Magister	Gfw	72	+187	-64	0	78	+957	+0,28	+0,16	+0,05	+68	+49	+49	+357	-17	+12	79	+299	100	100	99	100	100	105	106	86	99	103	109	101	105	
LIV US 3243358080	Terra-Linda Rocket		Perfect	King Doc	Gfw	69	+187	-1	0	75	+1539	-0,07	-0,18	+0,00	+58	+35	+70	+286	+13	-36	76	+390	103	101	104	103	100	102	105	85	105	105	107	103	108	
Kam NL 590394772	Winters Faun Yesta	RF	Yes	Brasil Rf	Gfw	74	+187	-41	0	79	+878	+0,29	-0,03	+0,05	+65	+28	+45	+265	-52	+46	80	+189	103	100	98	100	98	97	107	88	106	104	104	107	108	
Toe NL 588791790	Hul-Stein Sauna P Rf	RF PO	Jacuzzi	Apoll P	Gfw	79	+186	-63	0	84	+509	+0,79	+0,30	-0,03	+95	+46	+20	+394	-56	+25	82	+174	102	99	103	104	100	93	101	89	95	98	104	99	100	
CRV US 3238997219	Ladys-Manor Tune		Ladys-Manor Out	Alphabet	Gfw	67	+186	+24	0	73	+631	+0,41	+0,23	+0,00	+66	+44	+29	+327	+67	+29	75	+295	100	105	105	102	104	102	99	84	93	100	107	92	97	
Kam NL 615805288	Limerick		Shakespeare	Silver	Gfw	74	+186	+20	0	79	+1250	+0,13	-0,02	+0,16	+66	+41	+72	+324	+14	-25	80	+321	102	98	101	101	97	95	107	87	108	105	106	109	111	104
Kam NL 878956216	Trenn		Rioavoso	Esperanto	Gfw	71	+186	n	0	77	+1180	-0,02	-0,04	-0,04	+48	+37	+58	+268	+18	+10	78	+464	107	99	104	100	101	102	100	85	105	102	104	101	104	104
CRV US 3150687458	Pine-Tree Halftime		Gamechanger	Achiever	Gfw	70	+186	-39	0	76	+475	+0,47	+0,12	-0,04	+64	+28	+18	+256	-89	+36	78	+357	105	100	102	99	102	104	104	85	100	101	107	98	103	
Tot BE 514909809	Dg Astronaut		Pikachu	Royce	Gfw	69	+186	+8	0	75	+803	+0,18	+0,00	+0,08	+51	+28	+44	+233	+16	+25	77	+397	99	103	100	101	102	102	104	84	100	100	112	105	109	
CRV US 3238997237	Ladys-Manor Overthere		Kings-Ransom Le	Granite	Gfw	68	+186	-34	0	73	+743	+0,22	+0,01	-0,01	+53	+27	+33	+232	-50	+45	75	+181	109	105	106	104	102	99	86	94	99	107	104	90	96	
Tot DE 0361742809	Dg Pn Singapore		Charl	Jedi	Gfw	75	+186	-19	0	81	-86	+0,61	+0,19	+0,07	+50	+14	+2	+162	+45	+73	80	+365	102	107	102	102	101	97	104	88	94	96	108	94	99	
BGA ES 05094999407	Af Pedrin P Hotspot	PO	Hotspot P	Detour	Gfw	73	+186	-33	0	79	+791	-0,13	-0,04	-0,04	+21	+24	+32	+153	-69	+17	79	+324	105	107	103	102	97	101	105	87	99	99	112	98	105	
CRV US 3208782497	Kings-Ransom HJ Dapper		Aot Highjump	Legacy	Gfw	68	+185	-26	0	73	+1357	+0,42	-0,02	+0,03	+100	+45	+65	+413	-10	+53	75	+277	98	101	102	100	100	103	100	84	99	98	102	96	98	
OBS DE 0362156607	Kns Samuel-P Rc Et	RF PO	Solitaire P	Semino	Gfw	71	+185	-1	0	77	+1496	-0,04	-0,04	+0,05	+59	+48	+74	+341	-28	+6	78	+309	103	100	103	100	99	103	103	86	94	100	108	95	100	
GGI DE 0362476638	Santos P	PO	Simon P	Mission P	Gfw	70	+185	+25	0	76	+1086	+0,04	-0,01	-0,02	+50	+37	+48	+271	+62	+7	78	+582	101	100	104	100	104	106	106	85	99	102	106	99	103	
GGI NL 671960065	3star Signal P	PO	Simon P	Imax	Gfw	71	+185	+25	0	77	+1228	-0,05	-0,05	-0,01	+47	+38	+55	+271	+23	-45	78	+370	103	102	106	105	103	103	104	86	107	109	112	99	109	
Kam NL 546723092	Willem's-Hoeve Steyr		Martin	Jetset	Gfw	76	+184	-50	0	81	+1387	+0,09	+0,05	+0,11	+68	+53	+75	+379	-73	-7	81	+246	104	96	100	94	103	101	105	89	105	106	109	100	107	
Tot US 3149699060	Gold-N-Oaks Asterix		Nacash	Achiever	Gfw	71	+184	-33	0	77	+1004	+0,43	+0,06	+0,02	+85	+41	+48	+360	-69	-27	78	+279	102	101	103	103	102	97	104	86	103	106	104	99	103	
Tot US 3209481288	Sandy-Valley Eq-Et		Renegade	Frazzled	Gfw	71	+184	-16	0	76	+1366	+0,14	-0,02	-0,01	+72	+46	+61	+358	+6	-10	78	+213	102	103	103	99	101	96	86	103	104	108	100	106		
CRV NL 579516867	Delta Gin		Jenever	Don	Gfw	76	+184	-11	0	81	+979	+0,15	-0,03	+0,11	+56	+31	+56	+258	-9	+18	81	+203	99	100	107	106	102	103	88	104	104	100	100	106		
Kam BE 114947111	Kik Mitchie		Mitch	Rubicon	Gfw	74	+184	-39	0	80	+252	+0,61	+0,20	-0,04	+66	+27	+8	+253	-42	-3	80	+399	105	102	104	100	99	102	99	87	102	107	104	107		
CRV US 321856335	Siemers Tictoc		Alphabet	Lionel	Gfw	69	+183	+14	0	75	+1643	-0,19	-0,09	+0,01	+90	+48	+76	+408	+33	+34	77	+189	99	101	101	102	102	106	100	85	93	107	104	98	99	
CRV NL 593551262	Lowlands Catalyst		Beacher	Magister	Gfw	76	+183	-10	0	81	+1016	-0,10	+0,16	+0,09	+33	+51	+55	+292	+28	+3	81	+434	108	100	95	100	99	97	98	89	99	102	105	102	104	
CRV US 3150687548	Pine-Tree Engineer		I Pursuit	Prophecy	Gfw	71	+183	+51	0	77	+199	+0,66	+0,26	-0,16	+68	+30	-5	+269	+14	+9	78	+314	103	104	104	98	109	104	101	86	102	102	105	98	102	
GGI DE 1273500423	Rbb Caden P	PO	Calvin	Gymnast	Gfw	69	+183	+9	0	75	+1213	-0,30	-0,07	+0,07	+21	+35	+62	+204	-18	-9	77	+663	104	103	100	107	100	103	105	85	99	101	104	100	102	
Dek FR 2731072315	Pictus F P		Adlon P	Gymnast	Gfw	72	+182	+5	0	78	+1063	+0,07	+0,10	+0,13	+52	+47	+61	+316	-77	-40	78	+55	104	103	100	96	99	98	106	86	100	106	107	101	105	
GGI DE 0364104153	Fedex P	RF PO	Freestyle	Solitaire P	Gfw	69	+182	+8	0	75	+1408	-0,07	-0,04	+0,07	+53	+45	+71	+315	+47	-38	77	+421	102	102	102	100	96	101	103	84	104	107	108	99	106	
AWE DE 0771017366	Sire PP	PP	Simon P	Redrock	Gfw	70	+182	+36	0	76	+1078	-0,01	-0,04	+0,03	+45	+34	+52	+249	+6	-22	77	+669	104	101	97	101	99	103	85	104	105	110	100	107		
CRV NL 641394962	Delta Floater P	RF PO	Joskin P Rf	Adorable	Gfw	74	+182	-35	0	79	+534	+0,21	+0,14	+0,08	+42	+32	+32	+227	-28	-5	80	+369	106	101	104	98	105	99	103	88	102	103	105	103	105	
Syn US 3148280154	Dateless		Altadateline	Gfw	72	+181	+28	0	78	+1380	-0,11	-0,15	-0,03	+47	+33	+60	+253	-18	-13	79	+265	105	103	106	100	102	105	102	87	97	102	107	98	102		
CRV US 321856136	Siemers Rozot		Witadateline	Legacy	Gfw	70	+181	+28	0	76	+534	+0,45	-0,07	+0,04	+65	+12	+28	+193	-54	+13	76	+316	105	105	102	100	105	105	85	100	104	107	96	102		
DE 0362476382	Geox Alf Caribbean Et		Gigabyte	Malinus	Gfw	69	+181	+27	0	75	+727	-0,11	+0,03	+0,05	+20	+28	+38	+167	+38	-15	77	+305														

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLI

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

**December 2023**

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	Temp	MS	CLW	Rel	F	DS	U	F&L	T	
<b>Melkdoel Zwart</b>																																					
Kam	692742011		Daesdonckhoeve Radius	Rapper	Ranger	Gfww		73	+171	-17	0	79	+910	-0,05	+0,13	+0,15	+34	+44	+56	+264	-10	-11	80	+284	102	97	105	101	102	102	106	87	107	107	108	109	112
Tot	575218495		Gen Castillo	Captain	Charl	Gfww		68	+171	+38	0	74	+1416	-0,11	-0,18	-0,00	+49	+31	+65	+249	+38	+23	76	+360	98	105	101	98	100	105	108	84	98	98	105	95	99
CRV	US 3218932219		Peak Palomine	Altaiballed	No-Fla Altaibund	Gfww		68	+170	-1	0	73	+1905	+0,15	-0,04	+0,02	+97	+62	+89	+484	+48	-8	75	+174	101	98	104	101	104	103	95	84	103	106	107	93	102
Syn	US 3219434390		Boundless	Denovo 9367	Copycat	Gfww		70	+170	-1	0	74	+1406	+0,18	-0,06	-0,01	+79	+42	+63	+359	+37	+28	76	+176	100	102	101	102	103	97	98	85	103	109	105	98	101
AWE	ES 030905133021		Thos Saturn Greco	Saturn	Imax	Gfww		68	+170	-32	0	74	+1789	-0,02	-0,20	+0,03	+74	+41	+85	+348	-20	-48	77	+187	96	99	103	97	98	104	106	84	102	102	108	100	105
CRV	NL 670583621		Delta Menuity RF	Krimpy	Bram RF	Gfww		75	+170	-16	0	80	+1176	+0,08	+0,01	+0,08	+58	+42	+62	+310	-37	-10	81	+282	105	99	101	96	102	102	103	88	104	105	102	102	104
CRV	NL 758205788		Delta Warmond P	Mingo P RF	Handy P RF	Gfww		75	+170	-27	0	81	+574	-0,19	+0,22	+0,03	+42	+41	+29	+264	-76	+31	80	+227	100	101	97	102	100	102	106	87	102	102	103	108	107
Syn	CH 120165100680		Way Maker	Alleyoop	Kingy Doc	Gfww		69	+168	-4	0	75	+1299	-0,08	-0,07	+0,00	+47	+38	+59	+272	-22	+31	77	+143	100	101	102	97	102	102	100	85	92	100	114	103	107
CRV	US 3247634191		Kings-Ransom Dr Dre	Grandmaster	King Doc	Gfww		67	+167	-42	0	72	+575	+0,82	+0,16	+0,01	+102	+35	+27	+366	+3	+34	76	-12	98	106	105	104	104	107	96	83	92	94	103	95	96
CRV	US 3209481463		Sandy-Valley Jumpsqat	Art Highjump Et	Altalawson	Gfww		68	+167	-30	0	74	+316	+0,74	+0,35	-0,02	+81	+43	+13	+351	-69	+19	76	+125	103	100	105	98	104	102	99	84	96	101	105	95	96
Kam	BE 414947114		Kik Verstappen	Mitch	Rubicon	Gfww		74	+167	-36	0	80	+997	+0,24	+0,02	-0,01	+66	+37	+45	+304	-13	+20	80	+350	100	99	106	99	99	103	101	87	103	102	107	100	105
CRV	BE 917262319		Delta Bonbon	Nominator	E Profit	Gfww		73	+167	-77	0	78	+172	+0,52	+0,32	-0,01	+54	+35	+7	+259	-124	-10	79	+202	101	100	103	105	100	100	106	88	106	106	107	107	110
CRV	US 3205436450		Peak Camden	Altarobert	Jedi	Gfww		72	+167	+31	0	78	+779	+0,18	+0,03	+0,03	+50	+30	+38	+239	+35	-34	79	+545	100	104	104	100	102	101	105	86	102	105	103	99	102
GGI	DE 0540688894		Dynamic P	Dynamo P	Powerball P	Gfww		72	+167	-5	0	78	+404	+0,41	+0,14	-0,05	+55	+27	+14	+232	-50	-2	79	+494	105	101	102	100	100	100	100	85	102	101	107	98	103
Tot	US 3224239280		Aot Redeye Hefner-Red	Redeye	Hawai	Gfww		68	+167	-27	0	74	+1264	-0,24	-0,17	+0,07	+29	+27	+65	+189	-7	-17	76	+208	105	104	103	102	104	101	101	84	94	102	113	100	105
Kam	NL 667461369		Wesselcrest Hooked	Floris	Commander	Gfww		75	+167	-8	0	81	+97	+0,38	+0,09	+0,05	+38	+11	+9	+126	-37	+4	80	+81	100	105	101	100	96	99	87	100	103	107	102	105	
CRV	US 3237112600		Aurora Tyrol	Perfect	Eisaku	Gfww		68	+166	-4	0	74	+409	+0,46	+0,14	-0,08	+60	+27	+11	+242	-43	-25	75	+322	101	104	104	95	106	104	103	84	101	104	106	101	105
Kam	NL 642763822		Apina Oneal	Neal	Empire	Gfww		71	+166	-1	0	77	-71	+0,44	+0,22	+0,04	+36	+17	+0	+144	+38	+6	79	+132	108	104	100	107	103	95	104	86	98	102	106	103	104
Syn	US 3143660048		Wesselcrest Hooked	Altahotjob	Frazled	Gfww		74	+165	-11	0	79	+967	+0,24	+0,02	+0,02	+65	+36	+46	+297	-37	+4	80	+81	100	105	101	100	96	99	87	100	103	107	102	105	
GGI	DE 0362881835		Campen	Prosperous	Prosperous	Gfww		69	+165	-31	0	75	+1000	+0,11	+0,06	+0,01	+53	+41	+47	+293	-62	-41	77	+192	99	104	102	100	100	102	107	85	106	102	105	101	105
CRV	NL 598186850		Delta Powerlift	Abundant P RF	Adorable	Gfww		76	+165	-63	0	81	+687	+0,16	+0,13	+0,18	+44	+36	+49	+249	-100	-23	81	+198	106	99	101	103	105	97	100	89	100	100	107	110	109
CRV	NL 898475752		Delta Claas	Lunar	Concert	Gfww		77	+165	-28	0	82	+1	+0,50	+0,21	+0,04	+44	+19	+4	+170	-65	+19	82	+487	103	99	104	105	101	99	106	89	104	102	105	106	107
GGI	DE 0123928900		Kax Hürtig	Honda	Gymnast	Gfww		73	+164	-20	0	78	+1620	-0,17	+0,07	+0,08	+51	+64	+82	+391	+6	-46	79	+223	104	96	102	101	103	94	103	86	97	104	112	95	103
CRV	US 3215743595		Co-Op Tombola	Achiever	Altazazzle	Gfww		69	+164	-20	0	75	+80	+0,05	+0,23	-0,02	+97	+23	+2	+359	+25	+26	77	+75	100	102	101	102	103	104	104	85	100	103	104	102	104
Syn	DE 1405723672		Sha Chobe	Rubicon	Rubicon	Gfww		73	+164	+42	0	79	+706	-0,16	+0,14	+0,02	+45	+38	+34	+260	+2	-54	80	+337	103	104	104	101	94	99	102	87	100	103	109	96	103
CRV	NL 943080820		Delta Bonprix P	Nippon P	Don	Gfww		74	+164	-103	0	79	+109	+0,59	+0,33	+0,17	+57	+33	+20	+256	-176	-17	80	+263	104	99	100	102	106	101	107	88	108	106	109	101	109
CRV	US 3204165022		Denovo Groot	Glitz	Frazled	Gfww		73	+164	-18	0	78	+675	+0,05	+0,06	+0,05	+33	+29	+36	+197	-37	-22	79	+660	102	106	104	102	102	98	101	86	103	102	106	92	100
Kam	NL 596960625		De Wijde Blik Bett	Developer RF	Rapper	Gfww		70	+163	-29	0	76	+679	+0,57	+0,15	+0,09	+83	+38	+40	+339	-18	-59	77	+309	99	97	104	103	102	106	108	85	106	106	108	106	110
OBS	DE 0362850380		Sound	Solitär P	Sirius P	Gfww		71	+163	+29	0	77	+981	-0,15	-0,06	+0,10	+27	+28	+55	+185	+2	-6	78	+451	104	103	101	99	101	104	104	86	95	102	111	95	102
CRV	NL 933632255		Delta Largos	Deliver	Rush Hour Cd	Gfww		74	+163	+10	0	80	+75	+0,24	+0,28	+0,01	+25	+28	+4	+168	-27	-16	80	+590	104	104	104	107	100	101	103	88	102	103	100	100	101
CRV	US 145143846		Dewgood Conductor	Conway	Crimson	Gfww		68	+162	-3	0	74	+1061	+0,28	+0,08	-0,02	+73	+45	+46	+352	-17	+34	75	+207	100	99	100	100	101	101	101	84	99	99	103	101	102
CRV	US 3221096994		Maplehurst Thrifty	Torro	Billy	Gfww		67	+162	-10	0	72	+243	+0,70	+0,15	-0,01	+74	+22	+10	+249	-16	+79	76	+389	101	102	104	104	104	102	97	83	91	90	103	96	95
Kam	NL 642763839		Apina Ludiek	Lunar	Empire	Gfww		76	+162	-26	0	81	+250	+0,50	+0,18	+0,08	+56	+25	+19	+223	-30	+17	81	+278	105	99	100	104	102	92	105	89	102	104	109	100	106
CRV	US 3206220194		Leaninghouse Jingren	Festball	Positive	Gfww		69	+160	-25	0	74	+2056	-0,12	-0,24	+0,01	+74	+45	+95	+368	-4	+22	76	+267	97	102	103	97	102	109	99	85	102	104	105	95	101
K&L	SE 08231078492		Vh Rothaupt Sprog Swish	Vh Anderstrup S																																	

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

NVImelkdoel = 0,37\*Inet+0,07\*lvd+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\*lvd+5,7\*UGH+5,5\*VRU+5,5\*Uier+5,5\*Beenwerk+2,0\*GEB+5,0\*VLi

**Perspublicatie stierindexen Zwartbont genomisch zonder dochters**

**December 2023**

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	Temp	MS	CLW	Rel	F	DS	U	F&L	T	
<b>Melkdoel Zwart</b>																																					
CRV US 3204164907	Denovo 15669 Council		Crimson	Frazzled	Gfw	73	+145	+94		0	78	+439	+0,44	-0,02	+0,01	+59	+13	+21	+183	+70	-€	26	79	+341	110	102	103	99	106	104	98	87	102	104	104	95	101
Kam NL 549119054	Koepen Exponent		Nuberon	Altaspring	Gfw	75	+144	-54		0	80	+1111	+0,05	+0,06	+0,00	+52	+45	+51	+309	-105	+18	81	+245	101	99	97	96	98	96	103	88	101	103	107	96	102	
GGI DE 1406051286	Sha Freetown		Freemax	Rubicon	Gfw	70	+143	-36		0	76	+754	+0,42	+0,08	-0,04	+72	+34	+31	+301	-12	-50	78	+245	99	102	104	100	101	103	100	85	104	105	110	99	107	
CRV NL 679615989	Delta Trumpet P	RF PO	Jawline Pp	Floris	Gfw	71	+143	-62		0	77	-279	+0,52	+0,27	+0,13	+33	+13	-2	+119	-158	-43	78	+268	102	103	103	106	103	105	106	86	106	104	112	107	112	
Kam NL 638893215	Peeldijker Scor		Scorpion	Barrage	Gfw	71	+142	-6		0	77	+1007	+0,10	+0,07	-0,03	+53	+42	+43	+297	+16	-9	78	+93	99	101	104	97	103	101	103	86	96	97	103	102	101	
OBS DE 0541172373	Solist		Soundcloud	Benz	Gfw	71	+142	-19		0	77	+1023	+0,23	-0,01	-0,03	+66	+35	+44	+296	+8	-32	77	+78	100	104	101	101	104	102	99	85	95	104	111	97	103	
Kam NL 878995738	Waldclass Wieger	RF	Best Benz	Jacuzzi	Gfw	72	+142	+26		0	78	+774	+0,13	+0,14	+0,10	+45	+40	+45	+269	+65	-3	78	+329	101	101	102	103	101	97	98	86	100	103	104	101	103	
CRV BE 522411926	Delta Romance PP		Builder P	Topgear	Gfw	75	+142	-56		0	80	-221	+0,71	+0,37	+0,23	+52	+24	+10	+205	-78	+11	81	+131	105	99	99	103	103	97	111	88	99	103	103	98	101	
Kam NL 687591167	Peeldijker Jobson		Job	Reflector	Gfw	76	+142	-38		0	81	+413	+0,07	+0,15	+0,02	+24	+28	+21	+171	-68	-17	81	+481	102	100	99	97	103	102	105	88	103	101	106	106	107	
GGI DE 0361607797	Highfly P	PO	Hotspot P	Bestboss	Gfw	73	+141	+8		0	78	+743	+0,01	+0,20	-0,01	+32	+45	+33	+262	-19	+7	79	+169	103	102	99	97	103	104	100	87	94	98	106	96	99	
CRV US 321856052	Siemers Parmet		Twitch	Legacy	Gfw	70	+141	-28		0	76	+869	+0,27	-0,06	+0,03	+63	+24	+43	+242	-83	+19	76	+200	103	101	103	100	106	102	101	85	95	100	108	93	99	
Kam NL 716156956	Hoanster Tjeard P	PO	Nippon P	Magister	Gfw	74	+140	-89		0	78	+761	+0,07	+0,24	+0,05	+39	+50	+40	+297	-44	+24	80	+135	99	98	102	101	102	102	105	88	97	99	107	99	102	
CRV BE 819101846	Delta Lazer		Lustrum	Barclay	Gfw	79	+140	-75		0	83	-28	+0,22	+0,34	-0,04	+18	+29	-5	+155	-106	+36	82	+416	100	97	103	105	105	101	107	90	102	100	105	109	108	
CRV NL 927504690	Delta Kickoff		Blessing	Ranger	Gfw	75	+140	-102		0	79	-473	+0,67	+0,30	+0,07	+36	+9	-16	+106	-175	-31	80	+62	103	101	106	107	99	100	109	88	105	102	109	111	112	
CRV US 3208694539	Lambrecht Krillin		Positive	Wet Tuffenuff M	Gfw	70	+137	-33		0	76	+859	+0,56	+0,01	-0,04	+91	+31	+35	+330	-37	-26	77	+65	99	101	102	98	103	102	100	85	105	105	102	108	106	
Syn DE 1405889330	Hotspot PP	PP	Hotspot P	Adagio-P	Gfw	74	+137	-36		0	79	+171	+0,60	+0,37	-0,03	+61	+39	+5	+290	-62	+5	80	+33	102	100	104	100	102	101	102	87	95	102	105	98	100	
GGI DE 0362917428	Freewilly		Freemax	Casper	Gfw	70	+137	-25		0	76	+438	+0,34	+0,15	-0,05	+50	+29	+15	+230	-1	-7	78	+200	99	103	103	99	100	106	101	85	105	104	110	99	107	
CRV US 3235343045	Matrest Gadzoos		Intricate	Riveting	Gfw	68	+136	-31		0	74	-171	+1,04	+0,28	-0,08	+83	+18	-15	+246	-41	+1	76	+8	103	103	106	104	107	108	99	84	98	100	106	95	100	
Kam NL 684956332	Caudumer Logan PP	RF PP	Abundant P Rf	Jacuzzi	Gfw	76	+135	-8		0	80	+728	+0,30	+0,13	+0,22	+60	+38	+54	+292	+40	-69	81	+38	104	96	100	100	101	99	104	89	103	104	106	112	111	
Tot US 3143986576	Siemens Cd Pairing 31607		Cascade	Granite	Gfw	70	+135	-28		0	76	+870	+0,29	-0,10	+0,01	+65	+21	+41	+234	+30	+8	78	+180	99	103	103	99	105	103	101	85	96	101	111	95	102	
CRV US 3224228188	La-Ca-De-Le Cwv Ice 8778		Conway	Langley	Gfw	68	+134	-55		0	74	+473	+0,90	+0,24	-0,11	+104	+39	+11	+385	-42	+29	75	+82	96	101	102	102	102	106	97	84	97	103	103	96	99	
AWE BE 160947269	Sensation PP Du Pays D'aubel	PP	Luster-P	Adagio-P	Gfw	73	+134	+15		0	78	+1320	+0,14	-0,07	+0,02	+70	+39	+62	+325	+127	-39	79	+153	101	98	102	95	98	101	107	87	102	104	109	101	107	
Syn DE 0363070385	Rastor P	PO	Radar	My Dream P	Gfw	69	+133	+2		0	75	+850	-0,06	+0,04	-0,02	+30	+33	+37	+210	+20	-13	76	+312	101	101	101	93	105	101	101	84	105	105	112	99	108	
Tot US 321856047	Siemers Yao Prada		Yaos	Granite	Gfw	68	+133	-36		0	74	+244	+0,39	+0,09	-0,10	+46	+17	+2	+170	+20	-40	75	+285	102	106	102	97	104	101	104	84	99	103	108	98	108	
CRV US 3208679954	Bomaz Novastar		Heroic	Hurtgenlea Ydr	Gfw	68	+133	-33		0	74	+238	+0,45	+0,06	+0,00	+51	+14	+11	+168	-85	+0	76	+198	103	105	104	100	101	105	101	84	102	101	106	94	101	
AWE FR 5502638213	Ramses Rf	RF	Crown-Red	Gymnast	Gfw	73	+132	+43		0	78	+88	+0,15	+0,09	-0,01	+17	+11	+3	+82	+11	-78	79	+222	110	105	102	97	111	97	100	87	99	105	109	102	106	
CRV NL 577934120	Borderview Panorama PP	RF PP	Abundant P Rf	Jim P	Gfw	76	+131	+13		0	80	+131	+0,38	+0,21	+0,16	+40	+23	+20	+180	-57	+2	81	+104	102	100	101	105	98	101	103	85	105	102	106	109	110	
Kam NL 749786368	Zandenburg Hocus	PO	Hotspot P	Doorsopen	Gfw	76	+131	-41		0	82	+330	+0,01	+0,05	-0,03	+15	+16	+12	+101	-107	-5	80	+45	105	105	104	102	99	98	106	88	94	98	107	97	100	
CRV NL 877671402	Delta Domingo		Blessing	Vh Rozwell	Gfw	74	+131	-83		0	79	-438	+0,33	+0,25	+0,05	+9	+6	-16	+38	-168	+1	79	+292	102	104	106	105	102	100	107	88	103	100	103	108	107	
CRV DE 1082860412	San Radler PP	RF PP	Lupo Pp	Hotspot P	Gfw	69	+129	-4		0	75	+1359	-0,13	-0,03	+0,05	+44	+44	+67	+291	+10	+7	77	+73	100	101	102	104	98	102	103	85	93	97	106	93	97	
Kam NL 628762456	Apina Lunara		Lunar	Abel	Gfw	77	+129	-14		0	82	-56	+0,56	+0,16	+0,04	+47	+12	+1	+147	-28	-14	82	+395	103	100	96	105	101	95	108	89	102	105	110	100	107	
CRV NL 644429267	Vbl Mento		Vh Bahrain	Magister	Gfw	76	+128	-7		0	81	+753	+0,20	+0,30	-0,01	+51	+55	+33	+343	-5	+5	81	+143	103	98	97	106	98	102	101	88	100	100	97	98	97	
Syn DE 1406357754	Mar Dino PP	PP	Dynamic P	Solitaire P	Gfw	68	+127	-52		0	74	+490	+0,24	+0,21	+0,00	+43	+37	+22	+249	-13	+9	77	+258	99	99	102	103	100	104	101	84	100	102	108	101	105	
Dek FR 8550489703	Sad Ehb PP Ehb	PP	Pleslin P Du Pe	Gfw	67	+127	-66		0	72	+698	-0,15	-0,10	+0,01	+15	+15	+33	+102	-103	-30	76	+364	105	103	100	102	98	103	101	83	106	104	110	102	109		
CRV DE 0770817325	San Outsider PP	PP	Simon P	Mr Puma	Gfw	70	+126	+6		0	76	+1063	-0,16	-0,06	-0,01	+29	+31	+48	+202	+3	-15	77	+547	103	100	100	101										