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Skillnaden mellan Wrights och DNA

Parning av besläktade hundar ger upphov till inavel. Inavelsgraden definieras som den andel av en individs gener där båda allelerna är identiska genom arv. En individ med en inavelsgrad på 6,25 procent är homozygot i 6,25 procent av generna. Uttryckt på ett annat sätt är sannolikheten för att genvarianterna i ett enskilt locus ska vara dubblerade 6,25 procent. Sannolikheten för en dubbling av alleler ökar alltså ju mer besläktade de parade individerna är. Denna sannolikhetsberäkning kallas för Wrights efter Sewall Wright som var en amerikansk genetiker. Beräkning utgår ifrån att förfäderna (bortom vanligtvis fem generationer) är obesläktade.

Idag finns DNA-teknik som visar antal homozygota gener, det vill säga inavelsgraden i hundens arvs massa. Nedan följer olika stamtavlor som visar 4 generationer. I dessa stamtavlor framkommer samtliga hundarnas inavelsökning så som den beräknas enligt Wrights samt de testade hundarnas genetiska inavelsgrad. I några av stamtavlorna finns det flera generationer av hundar vars DNA har kartlagts. I några stamtavlor har hela kullar blivit DNA-testade. Hundarnas DNA visar att rasen har en genetisk inavelsgrad som i genomsnitt ligger på närmare 28%, vilket skiljer sig kraftigt från Wrights sannolikhetsberäkning.

Mating of related dogs causes inbreeding. The degree of inbreeding is defined as the proportion of an individual's genes where both alleles are identical by descent. An individual with an inbreeding rate of 6.25 percent is homozygous in 6.25 percent of the genes. Expressed in another way, the probability that the gene variants in a single locus will be doubled is 6.25 percent. The probability of doubling of alleles thus increases the more related the paired individuals are. This probability calculation is called Wrights after Sewall Wright who was an American geneticist. The system of calculation is based on the assumption that the ancestors are unrelated.

Today, there is DNA technology that shows the number of homozygous genes, i.e. the degree of inbreeding in the dog's genome. In this document there are different pedigrees showing 4 generations. In these pedigrees, the calculated inbreeding as in accordance with the system of Wrights as well as the inbreeding proven by DNA becomes visual. In some of the pedigrees there are several generations of dogs whose DNA has been mapped out, in some pedigrees entire litters have been tested. The DNA of those dogs shows that the breed has a genetic inbreeding level that is in average close to 28%, which differs greatly from Wright's probability calculation.



Nutida stamtavlor

7 dogs tested Wrights 0,6% DNA 24-28-28-29-31-31-33%	Black Bad Boy Biafe Wilki Z Wilkowa (Wrights 0,6%)	Otis od bijelih andela (Wrights 0,4%)	Diego od bijelih andela (Wrights 0,42%)
			Azra Zora vom Sutumer Grund (Wrights 0,2%)
		Ossi Wilczy Biały Kieł (Wrights 0%)	Invincible zente lords of white shepherd male (Wrights 1,66%) U're Pretty vom Sutumer Grund (Wrights 0,2%)
	Simply one Magic Mirage (Wrights 0%, DNA 28%)	Most Wanted P'tits Loups d'Amour (Wrights 1,17%)	Garmin du Domaine de la Graffenbourg (Wrights 0,81%) Kariboo P'tits Loups d'Amour (Wrights 0,65%)
		Horsebo Twix (Wrights 6,64%)	Horsebo Muffin (Wrights 0%)
			Horsebo 7-up (Wrights 0,2%)
7 dogs tested Wrights 0% DNA 23-25-26-27-27-29%	Pocker Face Biala Wiedzma (Wrights 1,18%)	Madison P'tits Loupe d'Amour (Wrights 0,4%)	Juan Aiko P'tits Loups d'Amour (Wrights 1,41%) Hangun P'tits Loups d'Amour (Wrights 0%)
		Moria Witch Wilczy Biały Kie (Wrights 0%)	Invincible zente lords of the white shepherd (Wrights 1,66%) U're Pretty vom Sutumer Grund (Wrights 0,2%)
		Erövrarens Discovered Diamond (Wrights 1,56%, DNA 26%)	Divatorpets Bolt av Mimmi (Wrights 0%)
	Erövrarens Alhambra (Wrights 0%, DNA 30%)		Vallgårdens Fantom Finder (Wrights 1,76%, DNA 28%)
			Bonnibel of Lovely Whitestar (Wrights 1%, DNA 27%)
	5 dogs tested Wrights 0,2% DNA 27-28-29-32-30%	Amraz av White Arctic Mist (Wrights 2%)	Bandhu of Shadasa (Wrights 0%)
Only Nala av White Rewyr (Wrights 0,2%)			Chesto of Trebons Berger Blanc (Wrights 0,81%) Eiffel av White Rewyr (Wrights 0,83%)
Darla Darielle of Ariellespride (Wrights 1,19%, DNA 32%)			Waroggi Maitreya (Wrights 0,4%)
		Angel Alita of Ariellespride (Wrights 0,2%)	Kentalo vom Sutumer Grund (Wrights 0,4%)
			Veddinas Arielle (Wrights 1%)



2 dogs tested Wrights 6,3% DNA 26-27%	Kokkomäen Big Speedy (Wrights 0%)	Vallgårdens Dynamite Domino (Wrights 0,2%)	Vallgårdens Monsieur Aragon (Wrights 0,83%)
			Bacchara of Trebons Berger Blanc (Wrights 0,82%)
		Hunttu Hännän lita (Wrights 0%)	Marco-Sunny von Fürstenberg (Wrights 2,78%)
			Talviyön Lightmyfire (Wrights 0%)
	Erövrarens Crazy in Love (Wrights 0,4%)	Vallgårdens Dashing Duke (Wrights 0,2%)	Vallgårdens Monsieur Aragon (Wrights 0,83%)
			Bacchara of Trebons Berger Blanc (Wrights 0,82%)
Bonnibel of Lovely Whitestar (Wrights 1% DNA 27%)		Born to Win White General (Wrights 0%)	
		Cookie Star z Rance Montara (Wrights 0%)	
Wrights 1,96% DNA 35%	All I want of Trebons Berger Blanc (Wrights 6,27%)	Horsebo U2 (Wrights 0%)	Al-Pacino of Haely's Future (Wrights 0,6%)
			Enjoy of White Sunshine (Wrights 0%)
		Gentle Grace of Trebons Berger Blanc (Wrights 2,36%)	Chesto of Trebons Berger Blanc (Wrights 0,81%)
			Horsebo Quiet Lady (Wrights 6,64%)
	Augusteas Abba (Wrights 2,36%)	Jack Daniels of Trebons Berger Blanc (Wrights 0,8%)	Beau Brit Od bijelih andela (Wrights 0,4%)
			Dolce Vita of Trebons Berger Blanc (Wrights 0,81%)
		Jolee of Trebons Berger Blanc (Wrights 0,4%)	Sirius Black de Noble Linaje (Wrights 0,59%)
			Gucci of Trebons Berger Blanc (Wrights 0,59%)
Wrights 0% DNA 27%	Hanska Ska du Domaine de la Combe Noire (Wrights 0,4%, DNA 30%)	Unique Liefje of haely's future (Wrights 2,96%)	Atax-Boss vom Sutumer Grund (Wrights 0,4%)
			Lievekeles of Haely's Future (Wrights 0,6%)
		Voice wajana of haely's future (Wrights 1,61%)	Hanan of Skah Dakota (Wrights 0%)
		Inshima Honey vom Sutumer Grund (Wrights 0,6%)	
	Halona Du Domaine de La Combe Noire (Wrights 0%)	Horsebo Chester (Wrights 0%)	Lothians Vencer Kann Schimmelpfeng (Wrights 2,93%)
			Horsebo Cocos (Wrights 0,62%)
Volkane von der Glückspforte (Wrights 4,48%)		Zack de Vi Pasay (Wrights 3,96%)	
		Keeshee de vi Pasay (Wrights 5,29%)	



<p>Wrights 6,6%</p> <p>DNA 26%</p>	<p>Vallgårdens Polar Pilgrim (Wrights 0,79%)</p>	<p>South Streams Amazing Dinozzo (Wrights 1,56%)</p>	<p>X-Ray vom Terlüner Schloss (Wrights 0%)</p>
			<p>Barvestad's Dee-Dee (Wrights 0%)</p>
		<p>Vallgårdens Darling Duchess (Wrights 0,2%)</p>	<p>Vallgårdens Monsieur Aragon (Wrights 0,83%)</p>
			<p>Bacchara of Trebons Berger Blanc (Wrights 0,82%)</p>
	<p>Riddarängens Bubbel (Wrights 0,59%)</p>	<p>South Streams Amazing Bambas (Wrights 1,56%)</p>	<p>X-Ray vom Terlüner Schloss (Wrights 0%)</p>
			<p>Barvestad's Dee-Dee (Wrights 0%)</p>
		<p>Riddarängens Aprilia (Wrights 3,12)</p>	<p>Ingrids Vita Apollon (Wrights 0%)</p>
			<p>Paradise Pearl's Bella (Wrights 1,59%)</p>
<p>Wrights 0%</p> <p>DNA 29%</p>	<p>Chuck vom Reinholdsberg (Wrights 0,2%)</p>	<p>Akhiro vom Altvilstal (Wrights 1,63%)</p>	<p>Horant vom Vilstaler Land (Wrights 1,59%)</p>
			<p>Kimba vom Vilstaler Land (Wrights 1,21%)</p>
		<p>Dana vom Lützelbacher Land (Wrights 0,2%)</p>	<p>Bossanova von White Angel (Wrights 0%)</p>
			<p>Eve vom Lützelbacher Land (Wrights 0,62)</p>
	<p>Only Nala av White Rewyr (Wrights 0,2%)</p>	<p>Chesto fo Trebons Berger Blanc (Wrights 0,81%)</p>	<p>Ice Cool of Haely's Future (Wrights 0,6%)</p>
			<p>Nice of you to come bye Wonder (Wrights 1,6%)</p>
		<p>Eiffel av White Rewyr (Wrights 0,83%)</p>	<p>Hariom-Micka of Skah Dakota (Wrights 0%)</p>
			<p>Babette of Trebons Berger Blanc (Wrights 0,4%)</p>
<p>Wrights 0,2%</p> <p>DNA 31%</p>	<p>MiG Iz Beloy Brigady (Wrights 0%)</p>	<p>Charis z Blatenskych luk (Wrights 0%)</p>	<p>Caely's White Flower Evening Star (Wrights 1,79%)</p>
			<p>Ginna la Blankpapilio (Wrights 0%)</p>
		<p>IMAX IZBB (Wrights 0%)</p>	<p>Royal Born to be Wild (Wrights 10,09%)</p>
			<p>Born to Win White Arizona (Wrights 0%)</p>
	<p>Kosma House Lady Laura (Wrights 0,4%)</p>	<p>Glorious Defender Engel- Veiss (Wrights 1,77)</p>	<p>Azimut Ortus (Wrights 0%)</p>
			<p>Glorious Defender Adridana Lodestar (Wrights 0%)</p>
		<p>Kosma House Iwalda Breid (Wrights 0%)</p>	<p>Made to Measure Kokkio Kilego (Wrights 0%)</p>
			<p>Victoria aus Ottohof (Wrights 6,65%)</p>



Wrights 0,8% DNA 26%	Brando of Ice Wine (Wrights 0%)	Doux of Ice Wine (Wrights 0,79%)	Gomer la Blankpapilio (Wrights 0%)
			Nikita vom Kofelort (Wrights 0,39%)
		Sonnie Taien (Wrights 0%)	Number One of White Energy (Wrights 0%)
			Chispa Taien (Wrights 0,2%)
	Owecarose Captain Bennett (Wrights 0%)	Eaglehawk of Ice Wine (Wrights 1%)	Chuck vom Reinholdsberg (Wrights 0,2%)
			White Falcon's Mila (Wrights 0,82%)
		Laureate du Flocon d'Argent (Wrights 0%)	Drakkar of Blachier De La Bussiere (Wrights 4,86%)
			Iwell du Mont de Séne (Wrights 0%)
Wrights 0,8% DNA 28%	Doux of Ice Wine (Wrights 0,79%)	Gomer la Blankpapilio (Wrights 0%)	Akhiro vom Altvilstal (Wrights 1,63%)
			Apolena u Panaka (Wrights 5,15%)
		Nikita vom Kofelort (Wrights 0,39%)	Baxter vom Kofelort (Wrights 0%)
			Cheyenne vom Kofelort (Wrights 0%)
	White Glacier Aridane (Wrights 0,2%)	Armstrong v White Angel (Wrights 0%)	Baron vom Schloss Stutensee (Wrights 0,4%)
			Fanny von Kiralyszentistvani (Wrights 2,18%)
		Lubus Albus Irisz (Wrights 0%)	Waldo (Wrights 1,21%)
			Cherry von Feher Solyom (Wrights 0%)
Wrights 0,8% DNA 26%	The White Adonis The Special One (Wrights 0,39%)	Kiwengwa Chien de la Prolingee (Wrights 0%)	King Obilix van de Timberhoeve (Wrights 0%)
			Fay Jeggae Chien de la Prolingée (Wrights 0,21%)
		Vivid Daydream Amelie (Wrights 0%)	Elegant Ghost des Garous du Maquis (Wrights 0%)
			Yump for Joy of the White Wolves Home (Wrights 0,39%)
	Juwel Joya of the white Miracle Jayla (Wrights 0% DNA 29%)	Flash McQueen des divines folies bergère (Wrights 0,39%)	V'Prince Casper du Domaine des Collines Blanches (Wrights 0%)
			Dancing Queen Biala Pasja (Wrights 0,59%)
		Fantasy Fame of the white Miracle (Wrights 2,27%)	Kiss Kajo van de Banjou Burght (Wrights 0,82%)
			Akyra's Andra of the white Miracle (Wrights 0,84%)



<p>Wrights 0,2%</p> <p>DNA 26%</p>	<p>Gangster uit het Noorden (Wrights 0,39%)</p>	<p>Gangster vom TS (Wrights 0%)</p>	<p>Sunnantorps Grant Gawain (Wrights 0%)</p>
			<p>Zorana vom Terlünener Schloss (Wrights 0%)</p>
		<p>Pretty Girl Lindy uit het Noorden (Wrights 0,2%)</p>	<p>Pretty Boy Finn von der Nordhelle (Wrights 0%)</p>
			<p>Lizzy uit het Noorden (Wrights 0,39%)</p>
	<p>Qaiyoosha Quty of Beautiful Whites (Wrights 0%)</p>	<p>Allegro von Pardiell Grischun (Wrights 1,19%)</p>	<p>Errol of Jackie's White Flake Farm (Wrights 1,62%)</p>
			<p>Quandie vom Werntal (Wrights 0,4%)</p>
		<p>Inushka of Beautiful Whites (Wrights 0%)</p>	<p>Rusty Jado of the Heart of Lothian (Wrights 0%)</p>
			<p>Baiyoosha of Beautiful Whites (Wrights 0,39%)</p>
<p>Wrights 1%</p> <p>DNA 32%</p>	<p>Nanuc vom Kofelort (Wrights 0,39%)</p>	<p>Baxter vom Kofelort (Wrights 0%)</p>	<p>Goliath vom Vilstaler Land (Wrights 3,26%)</p>
			<p>Bonny Two von der Hohensyburg (Wrights 0,79%)</p>
		<p>Cheyenne vom Kofelort (Wrights 0%)</p>	<p>Yerry Lee von der Hohensyburg (Wrights 0%)</p>
			<p>Doreen von Schustergarten (Wrights 1,43%)</p>
	<p>Qaiyoosha Quty of Beautiful Whites (Wrights 0%)</p>	<p>Allegro von Pardiell Grischun (Wrights 1,19%)</p>	<p>Errol of Jackie's White Flake Farm (Wrights 1,62%)</p>
			<p>Quandie vom Werntal (Wrights 0,4%)</p>
		<p>Inushka of Beautiful Whites (Wrights 0%)</p>	<p>Rusty Jado of the Heart of Lothian (Wrights 0%)</p>
			<p>Baiyoosha of Beautiful Whites (Wrights 0,39%)</p>
<p>Wrights 0%</p> <p>DNA 21%</p>	<p>Chacal Do Vale Do Iquiry (Wrights 2,41%)</p>	<p>Andy Do Vale Do Iquiry (Wrights 0%)</p>	<p>Alhambra's Bonno II (Wrights 0%)</p>
			<p>Alhambra's Dara (Wrights 0%)</p>
		<p>Meg do Rancho o Pastor (Wrights 4,42%)</p>	<p>Alhambra's Thall (Wrights 2,47%)</p>
			<p>Mell Das Dunas Brancas (Wrights 0%)</p>
	<p>Thais de Kupal Kuyen (Wrights 25,79%)</p>	<p>Apolo De Kupal Kuyen (Wrights 0%)</p>	<p>Zar De La Real Corte De Las Arcanas (Wrights 0,8%)</p>
			<p>Ambar Del Enigma Zulu (Wrights 7,16%)</p>
		<p>Ambar Del Enigma Zulu (Wrights 7,16%)</p>	<p>Donner de White Shadow (Wrights 14,22%)</p>
			<p>Brisa von Basel (Wrights 12,94%)</p>



Wrights 0,2% DNA 26%	Blaidd Gwyn Thunderstorm Freke (Wrights 0%)	Vi'Ka Caoz (Wrights 0,78%)	Gringo Of White Finess (Wrights 0,2%)
			Cirkeline (Wrights 0%)
		Heyoka Du Domaine Des Collines Blan (Wrights 2,85%)	Vasten Du Domaine Des Collines Blan (Wrights 0,21%)
			Blanche Du Domaine Des Collines Bla (Wrights 0,98%)
	Frostflake's Ophelia (Wrights 0%)	Dw's Teo Torriatte (Wrights 0%)	Zucchero Meldolesi (Wrights 0%)
			Strawberry Ice v Vlerckensteijn (Wrights 0,4%)
Frostflake's Grace Kelly (Wrights 0%)		Lothians Vencer Kann Schimmelpfeng (Wrights 2,93%)	
		Zena Of White Condor (Wrights 1,61%)	
Wrights 0,2% DNA 28%	Dw's Teo Torriatte (Wrights 0%)	Zucchero Meldolesi (Wrights 0%)	Donar Oet Grunnen (Wrights 0,21%)
			Yukj di casa Praderio (Wrights 3,2%)
		Strawberry Ice v Vlerckensteijn (Wrights 0,4%)	Bandit The White Star (Wrights 0,21%)
			Kara Tirshka v Vlerckensteijn (Wrights 0,4%)
	Suebull's Ziggy Zaraphina (Wrights 0%, DNA 21%)	Langundo Vom Terluner Schloss (Wrights 0%)	Cortez Vom Eis (Wrights 0%)
			Alinga Vom Terluner Schloss (Wrights 0%)
		Riddarängens Austin (Wrights 3,12%, DNA 27%)	Ingrids Vita Apollon (Wrights 0%)
			Paradise Pearl's Bella (Wrights 1,59%)
Wrights 0% DNA 27%	Novara Nox Ahlithah Quest (Wrights 0,78%)	Hay Jay Prince vom Niehuser See (Wrights 0,41%)	Gringo of White Finess (Wrights 0,2%)
			Esprit Emily of White Condor (Wrights 1,61%)
		Indira vom Niehuser See (Wrights 1,58%)	Devil of white Energy (Wrights 3,34%)
			Luana vom Sutumer Grund (Wrights 0%)
	Qute Adorable Snowwhite of the Dutch Highlands (Wrights 0%)	Hocus Pocus of the White Wolves Home (Wrights 0%)	Elegant Ghost des Garous du Maquis (Wrights 0%)
			Nonjah Bibi of the White Wolves Home (Wrights 0,41%)
		New White Pearl of the Dutch Highlands (Wrights 0%)	Beloved White Adventure Zayas (Wrights 0,39%)
			Crystal Moon's New White Charisma (Wrights 0%)



Wrights 0,4% DNA 23%	Vallgårdens Dashing Duke (Wrights 0,2%)	Vallgårdens Monsieur Aragon (Wrights 0,83%)	Båthuset's Macho (Wrights 0%)
			Kastanjebo Kalma (Wrights 12,5%)
	Bonnibel of Lovely Whitestar (Wrights 1% DNA 27%)	Bacchara of Trebons Berger Blanc (Wrights 0,82%)	Nice Of You To Come Bye Ultimo (Wrights 2,6%)
			Zena Of White Condor (Wrights 1,61%)
		Born to Win White General (Wrights 0%)	Herakles Muo Of The Heart Of Lothian (Wrights 0%)
			Nice Of You To Come Bye Almighty (Wrights 0,2%)
Cookie Star z Rance Montara (Wrights 0%)	Alvo Giro Of Quiet Angel (Wrights 3,85%)		
	Husky Vom Märkischen Oderland (Wrights 0%)		
Wrights 0% DNA 21%	Sir Morgan Jonah's White Joy (Wrights 0%)	Allegro of Shadasa (Wrights 0%)	E'Jehol du Bois des Ternes (Wrights 3,42%)
			Januja-Ezira of Skah Dakota (Wrights 0%)
	Wynter Spirit Kennels Anya (Wrights 1,83%)	Princess Yasmin Jonah's White Joy (Wrights 0,4%)	Pretty Boy Finn von der Nordhelle (Wrights 0%)
			Lady Quinta uit het Noorden (Wrights 6,45%)
		Phineas Akbo-Parchovany (Wrights 0%)	Invincible zente lords of white shepherd (Wrights 1,66%)
			Holliday Star z Ranče Montara (Wrights 2,09%)
Nahla Ahlith Quest (Wrights 0,78%)	Hay Jay Prince vom Niehuser See (Wrights 0,41%)		
	Indira vom Niehuser See (Wrights 1,58%)		
Wrights 0% DNA 23%	Joulumaan Kuunkajo (Wrights 0%)	Veshukan Yasu (Wrights 1,61%)	Caely's White Flower Easy Rider (Wrights 1,88%)
			Veshukan Vega (Wrights 0%)
	Really Special Edition of the Dutch Highlands (Wrights 0%)	Joulumaan Kesäyön Poutapilvi (Wrights 0,79%)	Efkeria's Aladin (Wrights %)
			Joulumaan Canis Stella Sirius (Wrights %)
		Novara Nox Ahlith Quest (Wrights 0,78%)	Hay Jay Prince vom Niehuser See (Wrights 0,41%)
			Indira vom Niehuser See (Wrights 1,58%)
Kir Royal of the White Wolves Home (Wrights %)	Elegant Ghost des Garous du Maquis (Wrights %)		
	Sugar Babe of the White Wolves Home (Wrights %)		



<p>Wrights 6,25%</p> <p>DNA 37%</p>	<p>Dreamworks Roman Shepherd (Wrights 0%)</p>	<p>SureFire Special Forces Silverstar (Wrights 0%)</p>	<p>Wf's Devlyn's White Warrior (Wrights 0%)</p>
			<p>Wesfield's Ice Ice Baby (Wrights 0%)</p>
		<p>Dreamworks Sweet Lady Lily of the Valley (Wrights 0%)</p>	<p>Zucchero Meldolesi (Wrights 0%)</p>
			<p>Strawberry Ice v Vlerckensteijn (Wrights 0,4%)</p>
	<p>Majestics Poppela Gioia (Wrights 0%)</p>	<p>Zucchero Meldolesi (Wrights 0%)</p>	<p>Donar Oet Grunnen (Wrights 0,21%)</p>
			<p>Yukj di casa Praderio (Wrights 3,2%)</p>
<p>Majestics Amber Grace (Wrights 0%)</p>		<p>Bendor Duke of Westminster v Starr (Wrights 1,52%)</p>	
		<p>India vom Werntal (Wrights 0%)</p>	
<p>Wrights 0%</p> <p>DNA 29%</p>	<p>GAUDI Du Bois Des Ternes (Wrights 0,4%)</p>	<p>Beautiful angel du bois des ternes (Wrights 0,2%)</p>	<p>Apache of White Energy (Wrights 1,59%)</p>
			<p>S'Hawai de la Roche Blanche (Wrights 3,98%)</p>
		<p>EAZY Du Bois Des Ternes (Wrights 0,62%)</p>	<p>Big Bad Boy Du Bois Des Ternes (Wrights 1,59%)</p>
			<p>Horsebo Chanel N°5 (Wrights 0,2%)</p>
	<p>Dreamworks Fairies Wear Boots (Wrights 0,2%)</p>	<p>Zucchero Meldolesi (Wrights 0%)</p>	<p>Donar Oet Grunnen (Wrights 0,21%)</p>
			<p>Yukj di casa Praderio (Wrights 3,2%)</p>
		<p>Rosalinde Rose van Vlerckensteyn (Wrights 0,39%)</p>	<p>Surefire Obi-Wan Kinobi (Wrights 0,8%)</p>
			<p>Nice of you to Come Bye Polly McShane (Wrights 0,83%)</p>
<p>Wrights 0%</p> <p>DNA 24%</p>	<p>Bandit the White Star (Wrights 0,21%)</p>	<p>Basti Boy of White Castle (Wrights 1,62%)</p>	<p>Devin vom Märkischen Oderland (Wrights 0,4%)</p>
			<p>Cora von der Elmsburg (Wrights 10,18%)</p>
		<p>Ashley-Alissa vom Bruckner Landl (Wrights 0%)</p>	<p>Biaggi vom Alexanderhof (Wrights 0%)</p>
			<p>Xentra Lucie vom Werntal (Wrights 1,27%)</p>
	<p>Ve-Lin's Kasa V Surefire (Wrights 0,8%)</p>	<p>Roann-Vantasia One Point O (Wrights 8,27%)</p>	<p>Vantasia Xpect the Unexpected (Wrights 1,18%)</p>
			<p>Ro-Ann's Lady Dynamite (Wrights 6,49%)</p>
		<p>Ve-Lin's Migirl Lakota (Wrights 5,94%)</p>	<p>Ve-Lin's Dakota Cinbob (Wrights 6,65%)</p>
			<p>Von Lexus Surefire (Wrights 1,03%)</p>



Wrights 0%	BeDaBlanco Exotic Ernie (Wrights 0,21%)	OMAR SHARIF Biale Wzgorza (Wrights 0%)	Argos (Wrights 1,79%)	
			Star of Tiger Berta (Wrights 4,33%)	
		BeDaBlanco's Brave Beyla (Wrights 0,8%)	Kappelgaard's Tyson (Wrights 0,83%)	
			Egeborg's White Buffy (Wrights 0%)	
	Boardhill Blonde Bombshell (Wrights 0%)	Kowhai Spirit Of Skywalker (Wrights 0,81%)		White Spirit of Dreams' Aragorn (Wrights 0%)
				Kowhai Luck Of Avatar (Wrights 0,2%)
Legend Of White Full Moon After Twilight (Wrights 0%)			Braveheart - Ben von Einstein's Erben (Wrights 0%)	
			Gentle Gwen of the White Miracles (Wrights 0,84%)	
Wrights 0%	Blaidd Gwyn Thunderstorm Freke (Wrights 0%)	Vi'Ka Caoz (Wrights 0,78%)	Gringo Of White Finess (Wrights 0,2%)	
			Cirkeline (Wrights 0%)	
		Heyoka Du Domaine Des Collines Blan (Wrights 2,85%)	Vasten Du Domaine Des Collines Blan (Wrights 0,21%)	
			Blanche Du Domaine Des Collines Bla (Wrights 0,98%)	
	Frostflake's Xtra X (Wrights 0%)	Amon Da Estancia Dos Coqueiros (Wrights 0,4%)	Brad Lucky Star Do Novo Tempo (Wrights 25%)	
			Atina Adam Ringo BR La Chapelle (Wrights 0,4%)	
	Frostflake's Ophelia (Wrights 0%)	Dw's Teo Torriatte (Wrights 0%)		
		Frostflake's Grace Kelly (Wrights 0%)		
Wrights 0%	Blu Wayne Stark (di Grande Inverno) (Wrights 0%)	Gringo Of White Finess (Wrights 0,2%)	Bossanova von White Angel (Wrights 0%)	
			Esprie of White Finess (Wrights 0,84%)	
		Anja (Wrights 0%)	Wayne (Wrights 0%)	
			Shila (Wrights 3,2%)	
	Foxhunt's Nothing Else but You (Wrights 1,98%)	Steel's Royal Combo Of Foxhunt (Wrights 0,4%)		Royal Von Tasz Classic Combo (Wrights 11,78%)
				Regalwise X-Steel Emerald (Wrights 6,51%)
Foxhunt's Lil' Miss Sas-A- Fras (Wrights 5,73%)			Surefire Ruff's Gust Of Wind Of Fws (Wrights 2,39%)	
		Surefire Lil' Miss Tasz of FS (Wrights 7,91%)		

DNA
24%

DNA
26%

DNA
21%



Wrights 0% DNA 25%	Dw's Teo Torriatte (Wrights 0%)	Zucchero Meldolesi (Wrights 0%)	Donar Oet Grunnen (Wrights 0,21%)
		Strawberry Ice v Vlerckensteijn (Wrights 0,4%)	Yukj di casa Praderio (Wrights 3,2%)
			Bandit The White Star (Wrights 0,21%)
		Riddarängens Austin (Wrights 3,12%, DNA 27%)	Ingrids Vita Apollon (Wrights 0%)
	Dino Vom Selberg (Wrights 0,2%)		
	Paradise Pearl's Bella (Wrights 1,59%)		Kulleborgs Fräulein-Evita (Wrights 3,17%)
			Pipino's Alexandre (Wrights 0%)
	Vita Herdens Tess (Wrights 0%)		
Wrights 2% DNA 26%	Flashing Jewel Explosive Design (Wrights 0%)	Xeno vom Sutumer Grund (Wrights 0%)	Luzifers Fighter vom Sutumer Grund (Wrights 0%)
			Viva la Vie of the white Wolves Home (Wrights 0%)
		Lenmana vom Terluner Schloss (Wrights 0%)	Cortez vom Eis (Wrights 0%)
			Alinga vom Terluner Schloss (Wrights 0%)
	Maple Leaf fan Cosmo's Noflik Stee (Wrights 4,69%, DNA 31%)	Goliath fan Cosmo's Noflik Stee (Wrights 0%)	Biaggi vom Alexanderhof (Wrights 0%)
			Angel von White Angel (Wrights 0%)
		Xena Famke fan Cosmo's Noflik Stee (Wrights 0,81%)	Istas fan Cosmo's Noflik Stee (Wrights 0%)
			Binti vom Terluner Schloss (Wrights 0%)
Wrights 0% DNA 31%	Beau Brit Od Bijelih Andela (Wrights 0,4%)	Aico vom Bruckner Landl (Wrights 0%)	Biaggi vom Alexanderhof (Wrights 0%)
			Xentra Lucie vom Werntal (Wrights 1,27%)
		Corina Fliegeland (Wrights 0,8%)	Delljoy of Haely's Future (Wrights 0,6%)
			Alma vom Zillertal (Wrights 5,82%)
	Made-to-measure Glamour Geisha (Wrights 1,01%)	Crunch vom Stainzer Schilcherland (Wrights 0,4%)	Alvo Giro of Quiet Angel (Wrights 3,85%)
			Caprice of white Heroes (Wrights 4,51%)
		Horsebo Ciwi (Wrights 0,62%)	Nice of You To Come Bye Mojo (Wrights 0,98%)
			Enjoy of white Sunshine (Wrights 0%)



Wrights 0% DNA 28%	MiG Iz Beloy Brigady (Wrights 0%)	Charis z Blatenskych luk (Wrights 0%)	Caely's White Flower Evening Star (Wrights 1,79%)
			GINNA la Blankpapilio (Wrights 0%)
		IMAX IZBB (Wrights 0%)	Royal Born to be Wild (Wrights 10,09%)
			Born to Win White Arizona (Wrights 0%)
	Aknur Gul Yukki Fly Iriska (Wrights 0,39%)	Skif (Wrights 0,39%)	Lyutsiy (Wrights 0%)
			Diana Princess vom weißen Birkenstolz (Wrights 0%)
		Arden sol alyaska action (Wrights 0,59%)	Devil of White Energy (Wrights 3,34%)
			Rutta'x Royalty Kathreen (Wrights 0%)
Wrights 0% DNA 28%	Hinto Van Suthwalda (Wrights 0%)	Chiron the lovely White Shepherd (Wrights 0%)	Eljayno From Wihehokewa (Wrights 0,39%)
			Honeymoon's Lea of Buscin's Love (Wrights 1,97%)
		Enjoy van Suthwalda (Wrights 0%)	Flash McQueen des Divines folies bergère (Wrights 0,39%)
			Chico van Suthwalda (Wrights 0%)
	Egeborgs Dreaming Inki (Wrights 0%)	Gribouille De L`ange Gardien De Faujus (Wrights 0%)	Croc Blanc De l'Ange Gardien de Faujus (Wrights 0,21%)
			Blue Ice du Domaine des Collines Blanches (Wrights 0,21%)
		Egeborg's White Enya (Wrights 0%)	Egeborg's Aslan (Wrights 0%)
			Tinka's Laika (Wrights 0,4%)
Wrights 0% DNA 34%	Veddinas Baccus (Wrights 0,39%)	Buddy-Enrico Vom Osteland (Wrights 2,38%)	Axo Von Der Beerentrift (Wrights 1,19%)
			Colina Vom Rotbachsee (Wrights 0%)
		Ingrids Vita Angelique (Wrights 0%)	Dino Vom Selberg (Wrights 0,2%)
			Kulleborgs Fräulein-Evita (Wrights 3,17%)
	Sunnantorps Nala (Wrights 1,97%)	Sunnantorps Gilroy Gibson (Wrights 0%)	Aragon (Wrights 0%)
			Sunnantorps Bezel Blixtra (Wrights 0%)
		White Angel Of Pici Fantasy (Wrights 0%)	Delphi Von Tirol (Wrights 0%)
			White Glacier Ariadne (Wrights 0,2%)



2 dogs tested Wrights 0% DNA 20-22%	White Dreams Of Athabasca Fantastic Shirki One Shankar (Wrights 1,2%)	Zenado vom Terlünér Schloss (Wrights 0%)	Neigepearl Warrungal Wiseguy (Wrights 0%)
			Uzumati vom Terlünér Schloss (Wrights 0,42%)
		Cherokee Dite Shiro du Bois des Ternes (Wrights 1,4%)	Tracker du Bois des Ternes (Wrights 0,82%)
			Dakota Van Hiemrod (Wrights 1,39%)
	E Light of Letseng von der Nordhelle (Wrights 0% DNA 28%)	Kuperis Vejuonos Serksnas (Wrights 0,79%)	Jari Jewarof the Heart of Lothian (Wrights 0,79%)
			Prada Baltic Selerija (Wrights 1,19%)
		X Jezz la nieta de Hope von der Nordhelle (Wrights 0,49%)	Hardes Herzog Hannibal von der Nordhelle (Wrights 0%)
			Fame Lewana von der Nordhelle (Wrights 0,79%)

Wrights 0% DNA 24%	Jon Snow du Royaume de la Louve Blanche (Wrights 0%)	Fabio vom Sutumer Grund (Wrights 0,2%)	Bossanova von White Angel (Wrights 0%)
			Perlayne vom Sutumer Grund (Wrights 0,6%)
		Eaven Shadow du Royaume de la Louve Blanche (Wrights 0%)	Vicking de l'Ange Gardien De Faujus (Wrights 0%)
			White Shadow du Royaume de la Louve Blanche (Wrights 1,81%)
	E Light of Letseng von der Nordhelle (Wrights 0% DNA 28%)	Kuperis Vejuonos Serksnas (Wrights 0,79%)	Jari Jewarof the Heart of Lothian (Wrights 0,79%)
			Prada Baltic Selerija (Wrights 1,19%)
		X Jezz la nieta de Hope von der Nordhelle (Wrights 0,49%)	Hardes Herzog Hannibal von der Nordhelle (Wrights 0%)
			Fame Lewana von der Nordhelle (Wrights 0,79%)

Wrights 0% DNA 24%	Aron Lord Vom House Savacium (Wrights %)	Aron (Wrights %)	Oscar Chico Ben van Hiemrod (Wrights %)
			Linda Iz Razborce (Wrights %)
		Iris od Bijelih Andela (Wrights 0%)	Faelan vom Terluner Schloss (Wrights %)
			Frida od bijelih andela (Wrights 0%)
	Ana (Wrights 0%)	Evox vom weissen christal (Wrights 0%)	Cherkan Vom Weissen Christal (Wrights 0%)
			Adana Von Der Friedensaeue (Wrights 0%)
		Blondy (Wrights 2,99%)	Arci (Wrights 0%)
			Indoja (Wrights 6,67%)



Wrights 0% DNA 26%	Avalon Altája (Wrights 2,39%)	Elvis Taien (Wrights 1,41%)	Mateo von Restinga (Wrights 0,2%)
			Beky Fillúv Dvúr (Wrights 3,58%)
		Luisa Acabo Czech (Wrights 0%)	Ahepjuk Whiteline Czech (Wrights 0,6%)
			Coris Star z Rance Montara (Wrights 0%)
	Born to Win Warrior Athena (Wrights 0,98 %, DNA 28%)	JJ di Casa Praderio (Wrights 0%)	Challenger's White Shepherd Crack (Wrights 0%)
			Nausica Vicky Praderio (Wrights 3,2%)
		Born to Win Warrior Madfire (Wrights 1,95%)	Born to Win White Outlaw (Wrights 0%)
			Born to Win White Ultrafire (Wrights 0,6%)

De 8 grundarnas stamtavlor

Lobo White Burch Born 1966 (Wrights 0,4%)	Argent Maximillan (Wrights 0%)	Litt's von King (Wrights 0%)	Strobel's Chief von Hayes (Wrights 0,42%)
			Tracy's Guardian Silver Bell (Wrights 0,4%)
		Strobel's Lady Buck (Wrights 0%)	Holmes King Kong (Wrights 0%)
			Lady Ivory of Roebuck (Wrights 25,01%)
	Nina van Cleave (Wrights 0%)	Phantom III (Wrights 0 %)	White Cloud of La Salle (Wrights 6,25%)
			Pola von-D-Mor (Wrights 10,55%)
		Oatman's Thunder (Wrights 0%)	Konig Ruprecht of Lindeholt (Wrights 0%)
			Snow van Linden (Wrights 0%)

Hoofprint Ocan Born 1989 (Wrights 0%)	Chris's Silver Von Snowcloud (Wrights 3,78%)	Alice's Khenook Von Snowcloud (Wrights 0%)	Alice's Chief von Snowcloud (Wrights 0%)
			Alice's Karita Von Snowcloud (Wrights 2,59%)
		Snowcloud's Princess Dee (Wrights 0,2%)	Tasco Rin Von Snowcloud (Wrights 0,2%)
			Skeeta Dee Von Snowcloud (Wrights 0,44%)
	Hoofprint Itsa (Wrights 1,56%)	Jo-el's Quota (Wrights 1,79%)	Lucy's Bronco Eclu-Mibach (Wrights 0%)
			Jo-El's Isis Von Atlas (Wrights 0%)
		Katri von Finn (Wrights 27,35%)	Scofield's Rex Von Finn (Wrights 0%)
			Lonni von Finn (Wrights 0%)



Panther vom Wolfsblut Born 1989 (Wrights 1,78%)	Hoofprint Fire Onyx (Wrights 3,78%)	Hoofprint Pancho (Wrights 0%)	Hoofprint Lord Zeus (Wrights 0%)
			Jo-el's Tezrha (Wrights 2,59%)
		Hoofprint Amanda (Wrights 0,2%)	Hoofprint Yuma (Wrights 0,2%)
			Hoofprint Joker (Wrights 0,44%)
	Arabella Prinzessin vom Wolfsgehege (Wrights 0%)	Champion von Kron (Wrights 0%)	Kokes Mahalo (Wrights 25%)
			Shangrila's Sweety-Girl (Wrights 0%)
	Hoofprint Blondie (Wrights 4,84%)	Lucy's Bronco Edlu-Mibach (Wrights 0%)	
		Katri von Finn (Wrights 27,35%)	
Mona-Kirby von Ronanke Born 1985 (Wrights 0%)	Champion von Kron (Wrights 0%)	Kokes Mahalo (Wrights 25%)	Ke Aliis Koke (Wrights 2,34%)
			Ke Aliis Kiki (Wrights 2,34%)
		Shangrila's Sweety-Girl (Wrights 0%)	Lobo White Burch (Wrights 0,4%)
			White Lilac of Blinkbonny (Wrights 0%)
	Sherman's Gail Diana (Wrights 3,66%)	St Ledger's White Champeon Jim (Wrights 2,42%)	Sherry's Magnificent Mongo (Wrights 0%)
			St. Ledger's Erinmist (Wrights 26,76%)
	Sherman's Weiss Schnee Dame (Wrights 3,42%)	Lucy's Bronco Edlu-Mibach (Wrights 0%)	
		Lonni von Finn (Wrights 0%)	
Basko of the white Stars Born 1987 Wrights 4,37%	Blake-Star vom Gehege Eifeler Land (Wrights 0%)	Sherman's Wes-Greif (Wrights 3,66%)	St Ledger's White Champeon Jim (Wrights 2,42%)
			Sherman's Weiss Schnee Dame (Wrights 3,42%)
		Cindy von Ronanke Wrights 0%	Champion von Kron (Wrights 0%)
			Krons Rani von Finn (Wrights 4,79%)
	Axenia vom Wolfsblut (Wrights 1,95%)	Fleetwood Woody of Hoof Print (Wrights 7,04%)	J.S. Sebastian (Wrights 0%)
			Regalwise Ann-Lady (Wrights 3,13%)
	Biene vom Wolfsgehege (Wrights 3,33%)	Sherman's Astor (Wrights 14,92%)	
		Hoofprint Clementine (Wrights 0%)	



<p>Biene vom Wolfsgehege Born 1983 (Wrights 3,33%)</p>	<p>Sherman's Astor (Wrights 14,92%)</p>	<p>St Ledger's White Champeon Jim (Wrights 2,42 %)</p>	<p>Sherry's Magnificent Mongo (Wrights 0%)</p>
			<p>St. Ledger's Erinmist (Wrights 26,76%)</p>
		<p>Sherman's Schnee Madchen (Wrights 4,4%)</p>	<p>Sherry's Magnificent Mongo (Wrights 0%)</p>
			<p>Sherman's Weiss Schnee Dame (Wrights 3,42%)</p>
	<p>Hoofprint Clementine (Wrights 0%)</p>	<p>Lucy's Bronco Edlu-Mibach (Wrights 0%)</p>	<p>Joart's Cherokee (Wrights 0%)</p>
			<p>Lucy's Boneca Von Rin (Wrights 0%)</p>
		<p>Comb's Bergandy of Hoofprint (Wrights 0%)</p>	<p>Patty Lin's White Jerico (Wrights 0,79%)</p>
			<p>Rin Von Heidi (Wrights 0%)</p>
<p>Cindy von Ronanke Born 1982 Wrights 0%</p>	<p>Champion von Kron (Wrights 0%)</p>	<p>Kokes Mahalo (Wrights 25%)</p>	<p>Ke Aliis Koke (Wrights 2,34%)</p>
			<p>Ke Aliis Kiki (Wrights 2,34%)</p>
		<p>Shangrila's Sweety-Girl (Wrights 0%)</p>	<p>Lobo White Burch (Wrights 0,4%)</p>
			<p>White Lilac of Blinkbonny (Wrights 0%)</p>
	<p>Krons Rani von Finn (Wrights 4,79%)</p>	<p>Lucy's Bronco Edlu-Mibach (Wrights 0%)</p>	<p>Joart's Cherokee (Wrights 0%)</p>
			<p>Lucy's Boneca Von Rin (Wrights 0%)</p>
		<p>Kristi von Finn (Wrights 27,35%)</p>	<p>Scofield's Rex Von Finn (Wrights 0%)</p>
			<p>Lonni von Finn (Wrights 0%)</p>
<p>Wayn-Condor von Ronanke Born 1987 Wrights 0%</p>	<p>Sherman's Wes-Greif (Wrights 3,66%)</p>	<p>St Ledger's White Champeon Jim (Wrights 2,42 %)</p>	<p>Sherry's Magnificent Mongo (Wrights 0%)</p>
			<p>St. Ledger's Erinmist (Wrights 26,76%)</p>
		<p>Sherman's Weiss Schnee Dame (Wrights 3,42%)</p>	<p>Lucy's Bronco Edlu-Mibach (Wrights 0%)</p>
			<p>Lonni von Finn (Wrights 0%)</p>
	<p>Cindy von Ronanke Wrights 0%</p>	<p>Champion von Kron (Wrights 0%)</p>	<p>Kokes Mahalo (Wrights 25%)</p>
			<p>Shangrila's Sweety-Girl (Wrights 0%)</p>
		<p>Krons Rani von Finn (Wrights 4,79%)</p>	<p>Lucy's Bronco Edlu-Mibach (Wrights 0%)</p>
			<p>Kristi von Finn (Wrights 27,35%)</p>