























Collie Colors may be either dominant or recessive or modifiers of other colors

Dominant	Recessive	Modifier
Sable	Tri	Merle
	White	

\*The Collie Club of America's mission is safeguarding and improving the health and well-being of the breed. Double Dilute Merles carry a high risk of being blind and/or deaf or may not have eyes. As such, Collie Club of America does not recommend breedings that would produce offspring having high risk of health defects.






































### Coat Variety Inheritance in Collies

 Rough	X	 Rough	 Rough – 100%
 Rough	X	 Pure for Smooth	 Rough – factored Smooth – 100%
 Rough Fact Smooth	X	 Rough Fact Smooth	 +  +  Rough - 25% + Rough Factored Smooth – 50% + Pure Smooth – 25%
 Pure Smooth	X	 Rough Fact Smooth	 +  Rough Factored Smooth - 25% + Pure Smooth - 75%
 Pure Smooth	X	 Pure Smooth	 Pure for Smooth - 100%
 Rough	X	 Rough Fact Smooth	 +  Rough - 50% + Rough Factored Smooth - 50%

Smooth Coat is Dominant over Rough

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## Coat Color Inheritance in Collies

	X				Pure for Sable - 100%
Pure for Sable		Pure for Sable			
	X				Sable – Tri-factored - 100%
Pure for Sable		Tri			
	X		 + 		Pure for Sable - 50%      Sable –Tri-factored - 50%
Pure for Sable		Sable–Tri-factored			
	X		 + 		Sable–Tri-factored - 50%      TRI - 50%
Sable–Tri-factored		TRI			
	X		 +  + 		Pure for Sable - 25% + Sable–Tri-factored - 50% + Tri - 25%
Sable–Tri-fact		Sable–Tri-fact			
	X				TRI - 100%
TRI		TRI			
	X		 + 		TRI – 50%      +      Blue Merle – 50%
TRI		Blue Merle			
	X		 +  + 		Blue Merle – 50%      +      TRI – 25%      +      *Double Dilute Merle – 25%
Blue Merle		Blue Merle			
	X		 + 		Blue Merle – 25%      +      Sable – Tri-fact – 25%
Blue Merle		Sable – Tri-fact			
			 + 		+ Sable Merle/Tri -fact – 25%      +      TRI - 25%

\*Double Dilute Merles carry a high risk of being blind and/or deaf or may not have eyes.

 Blue Merle	X	 Pure for Sable	 Sable Merle – Tri-fact – 50%	+	 Sable – Tri-fact – 50%								
 *Double Dilute Merle	X	 TRI	 Blue Merle - 100%										
 Sable Merle – Tri-fact	X	 TRI	 Blue Merle (25%)	+	 Tri-fact Sable (25%)	+	 Sable Merle–Tri-fact (25%)	+	 TRI (25%)				
 Sable Merle – Tri-fact	X	 Sable – Tri-fact	 Blue Merle – 12.5% (12.5%)	+	 Sable-Tri-fact (25%)	+	 Sable Merle Tri-fact (25%)	+	 TRI (12.5%)	+	 Pure Sable Merle (12.5%)	+	 Pure Sable (12.5%)
 Sable Merle – Tri-fact	X	 Pure for Sable	 Sable-Tri-fact (25%)	+	 Sable Merle –Tri-fact (25%)	+	 Pure/Sable Merle (25%)	+	 Pure for Sable (25%)				
 Sable Merle-Tri-fact	X	 Blue Merle	 Sable-Tri-fact (12.5%)	+	 Sable Merle–Tri-fact (25%)	+	 *Double Dilute Merle (25%)	+	 TRI (12.5%)	+	 Blue Merle (25%)		
 Pure for Sable Merle	X	 TRI	 Sable-Tri-fact – 50%				+	 Sable Merle – Tri-fact – 50%					
 Pure for Sable Merle	X	 Sable – Tri-fact	 Sable Merle–Tri-fact (25%)	+	 Sable– Tri-fact (25%)	+	 Pure for Sable (25%)	+	 Pure Sable Merle (25%)				

 X  Blue Merle	 Sable-Tri-fact (25%)  Sable Merle-Tri-fact (50%)  *Double Dilute Merle (25%)
 X  Color Marked White	 Color Marked White – 100%
 X  White Factored	 Non-White Factored (25%)  White Factored (50%)  Color Marked White (25%)
 X  Non White Factored	 White Factored - 100%
 X  Non White Factored	 White Factored – 50%  Non White Factored - 50%
 X  Color Marked White	 White Factored – 50%  Color Marked White – 50%
 X  Blue Merle	 Sable-Tri-fact (25%)  Sable Merle-Tri-fact (50%)  *Double Dilute Merle (25%)

The color of the markings can be expected to be inherited as it is in colored individuals.

From the Collie Standard: "The 'White' is predominantly white, preferably with sable, tri-color or blue merle markings." This should not be confused with the Double Dilute Merle.

The non-white color of the individual can be expected to be inherited as above.