

# 2018 Kennel Club Registration Statistics

(Breed Record Supplements AV1 – AV4)



## French Bulldog

## Contents

Title Page	1
Contents	2
Litter Colour Definition	3
Corrections	3 – 9
Litter Summaries	10 – 11
Litter Size	12 – 13
Coefficient of Inbreeding (COI)	14 – 15
Caesarean Sections (C-Sections)	16 – 17
Parents Summary	18
Age of Sires	19 – 20
Age of Dams	21 – 22
Popular Sires	23 – 26
Health Testing	27
HC-HSF4 DNA Testing	27
DM DNA Testing	28
Eye Testing	29
French Bulldog Health Scheme	30 – 31
Additional Information	32

## French Bulldog Litter Colour Definition

Standard colour bulldog litters are defined as litters with no CNR (Colour Not Recognised by KC) puppies, parents or grandparents. The standard colours as defined by the KC are: Brindle, Brindle & White, Dark Brindle, Fawn, Fawn & White, Fawn Pied, Fawn With Black Mask, Light Brindle, Pied and White.

Any other litters are assigned as CNR.

## Corrections

For some dogs with litters registered in 2018, the information in the breed supplement is incorrect or inconsistent between sources (the paper Breed Records Supplement and the online myKC source). These are corrected in the following data.

- One French bulldog (*Renuar Ocean Soleil D'Ore*) is registered as CNR, but is actually the standard colour 'Fawn'.
- 247 French bulldogs are incorrectly registered as standard colours and should be registered as CNR (**Table 1**).

**Table 1.** List of French bulldogs with litters in 2018 registered incorrectly as a standard colour.

Registered Name	Registered Colour	Actual Colour
<i>Alfie Blu</i>	Brindle	Blue
<i>All Cecil</i>	Pied	Blue Pied
<i>Amazing Armadillo</i>	Fawn	Blue
<i>Angels Whisper</i>	Dark Brindle	Black
<i>Ark Royal</i>	Fawn	Lilac Fawn
<i>Asia Beauty</i>	Brindle	Chocolate Brindle
<i>Aslaug Alicia Rose</i>	Dark Brindle	Blue Brindle
<i>Axel Foley</i>	Dark Brindle	Blue
<i>Bad Boy Fawny</i>	Fawn	Blue Fawn
<i>Baron Iz Russkoi Skazki At Frenchkisses</i>	Fawn	Blue Fawn
<i>Baron's Boy</i>	Fawn	Chocolate & Tan
<i>Bartley Wilson</i>	Fawn	Blue
<i>Bastille Ore Jackpot</i>	Brindle	Lilac
<i>Bastille-Ore Junior</i>	Brindle	Chocolate
<i>Bastille-Ore Marshmallow At Celticpride</i>	Pied	Chocolate
<i>B-Crody Von Bad-Bull</i>	Brindle	Blue
<i>Bebe King</i>	Fawn	Chocolate Fawn
<i>Benjamin Von Crebison</i>	Brindle	Blue
<i>Blu Baby Boy</i>	Fawn	Lilac Sable
<i>Blue Headed Girl</i>	Pied	Blue Pied
<i>Betty Midler</i>	Pied	Blue Pied

Registered Name	Registered Colour	Actual Colour
<i>Bobby The Dazzler</i>	Fawn	Lilac Fawn
<i>Boss Lamorena Del Of Frenchyview</i>	Brindle	Lilac
<i>Brandarsaig Day Tripper</i>	Fawn	Blue Fawn
<i>Bromartybull New Kid In Town</i>	Fawn	Chocolate Fawn
<i>Bruser Box</i>	Pied	Blue
<i>Buddhabull Triple Choc</i>	Fawn	Chocolate Fawn
<i>Buggsey Boy</i>	Fawn	Chocolate & Tan
<i>Bullspectrum's Batman</i>	Fawn	Blue Fawn
<i>Bumpy Johnson</i>	Fawn	Blue & Tan
<i>Cadbury Of Frenchie Connection</i>	Brindle & White	Chocolate
<i>Caesars Palace</i>	Fawn	Blue Fawn
<i>Californian Cassius</i>	Fawn	Blue Fawn
<i>Candy Von Bad-Bull</i>	Pied	Blue Pied
<i>Choc Holiday</i>	Fawn	Chocolate Fawn
<i>Chocolate Gaffa</i>	Fawn	Chocolate Fawn
<i>Chunky Chops</i>	Fawn	Blue
<i>Cinnamon From Spolbo</i>	Brindle	Lilac Trindle
<i>Clarissa Bluz</i>	Pied	Blue Pied
<i>Clear Sky Baby</i>	Pied	Blue Fawn Brindle Pied
<i>Cleo Von Bad-Bull</i>	Pied	Blue Pied
<i>Cluster Rio</i>	Brindle	Blue
<i>Cobravolgyi-Orseg Alfred</i>	Dark Brindle	Blue
<i>Coco Got Magic Chocolate</i>	Fawn	Blue & Tan
<i>Coeur De Lion</i>	Brindle	Blue
<i>Comfort From The South</i>	Fawn	Blue Fawn
<i>Cookie Surprise</i>	Fawn	Blue Fawn
<i>Cream Chill</i>	Fawn	Blue Fawn
<i>Cremelobullz Ice Ice Baby</i>	Fawn Pied	Blue Fawn
<i>Crystal Lacey</i>	Fawn	Cream
<i>Cseraljai Lesbenallo Joe Of Justeph</i>	Pied	Blue Pied
<i>Curlys Bazinga</i>	Fawn	Chocolate & Tan
<i>Daisy Bluebelle</i>	Fawn	Blue Fawn
<i>Dance Lamorena Del</i>	Brindle	Chocolate
<i>Dante Vom Castelloblue</i>	Brindle	Chocolate
<i>Dark Daisy Daydream</i>	Dark Brindle	Chocolate Tan Brindle
<i>Dark Horizon</i>	Brindle	Blue
<i>Deep Magic</i>	Fawn	Blue Fawn
<i>Diamond French Daphne</i>	Brindle	Blue
<i>Dicco Von Bad-Bull</i>	Brindle	Chocolate
<i>Dina Luna Dell Capo-Caro</i>	Fawn	Blue
<i>Dinkydiz Loki</i>	Fawn	Lilac Cream
<i>Doctor Cream</i>	Fawn	Blue Fawn
<i>Don Franko</i>	Fawn	Blue & Tan

Registered Name	Registered Colour	Actual Colour
<i>Donfrenchies Brutus</i>	Dark Brindle	Chocolate & Tan
<i>Dorell Lamorena Del</i>	Fawn	Lilac Fawn
<i>Dream Riley</i>	Fawn Pied	Chocolate Fawn
<i>Eager Beaver</i>	Fawn	Blue & Tan
<i>El Choco</i>	Fawn	Chocolate & Tan
<i>Ernest Boy</i>	Brindle	Blue & Tan
<i>Firefields Cruz</i>	Fawn	Black & Tan
<i>Flower Petals Girl</i>	Pied	Blue Pied
<i>Foxy Brown</i>	Fawn	Blue Fawn
<i>Fridstail Olympiacos</i>	Fawn	Lilac & Tan
<i>Funny Boy Junior</i>	Pied	Lemon Pied
<i>Gabriel Lamorena Del</i>	Fawn	Lilac & Tan
<i>Galaxy Delight</i>	Brindle	Chocolate
<i>Genghiskhan Rare Gery Bull's At Exclusabull</i>	Brindle	Purple Lilac
<i>Gery Bulls Djemba-Djemba</i>	Brindle	Blue
<i>Gery Bulls Pires At Clanrobbo</i>	Brindle	Blue
<i>Gery Bulls Superman</i>	Brindle	Chocolate
<i>Globullz TNT</i>	Fawn	Lilac Fawn
<i>Godfather Lamorena Del</i>	Fawn	Chocolate Fawn
<i>Goldenballs Spanner</i>	Fawn	Cream
<i>Goldy Locks</i>	Fawn	Lilac Fawn
<i>Gunnerbull Comandor Jadzia</i>	Fawn	Blue Fawn
<i>Hashyway Hue Hef</i>	Fawn	Lilac
<i>He Is One For The Ladies</i>	Fawn	Lilac Fawn
<i>Henrys Lilac Hero</i>	Fawn	Lilac Fawn
<i>Herbert Connection</i>	Fawn	Lilac & Tan
<i>Hes A Bobby Dazzler</i>	Fawn	Blue Fawn
<i>Hocus Pocus Winaty's Des Joyaux Du Phoenix Blanc</i>	Fawn	Cream
<i>Howdy Barney</i>	Fawn	Blue Fawn
<i>Incredible Steve Of Donfrenchies</i>	Fawn	Blue & Tan
<i>It's Ferris</i>	Fawn	Blue Fawn
<i>Jax Of Diamonds</i>	Fawn	Chocolate Fawn
<i>Jazzy Little Legend</i>	Fawn	Chocolate Fawn
<i>Jimmie Chu</i>	Fawn	Lilac
<i>Justeph Fawn Moon Master</i>	Fawn	Blue Fawn
<i>Justeph Little Boy Blue</i>	Pied	Blue Pied
<i>Kenquartz Contrary Madam</i>	Brindle & White	Blue
<i>Kenquartz Dnieper</i>	Fawn	Blue Fawn
<i>Kenquartz Keep Me Hangin On</i>	Brindle	Blue
<i>Kenquince Chewie</i>	Fawn	Blue Fawn
<i>Kenquince Delacroix</i>	Brindle	Blue & Tan
<i>Kenquince Patty Cake</i>	Fawn	Blue
<i>Kensteen Full Moon</i>	Fawn	Blue & Tan

Registered Name	Registered Colour	Actual Colour
<i>Kensteen Pepper</i>	Fawn	Lilac Fawn
<i>Kensteen Starlit Night</i>	Fawn	Chocolate & Tan
<i>Kensteen That's My Job At Essexbull</i>	Fawn	Blue & Tan
<i>Kensteen Ultraviolet</i>	Pied	Blue & Tan
<i>Kentixen Alaskan Lights</i>	Fawn	Blue & Tan
<i>Kentredicim Venus</i>	Fawn & White	Fawn & Cream Pied
<i>Kenxiam Crystal Guy</i>	Dark Brindle	Chocolate
<i>Kenxiam Orchid</i>	Brindle	Blue Brindle
<i>Khalesi Targaryen</i>	Fawn	Blue Sable & Tan
<i>Kimba Beau Cannes</i>	Fawn	Blue Fawn
<i>King Bluey Louie</i>	Brindle	Blue
<i>King Of Frenchies</i>	Fawn	Lilac Fawn
<i>King Of Northernbullyes</i>	Fawn	Blue & Tan
<i>King Piere Of Bordeaux</i>	Fawn With Black Mask	Red Sable
<i>King Rocco One For The Ladies</i>	Fawn	Chocolate & Tan
<i>King Rolo At Delorabulls</i>	Fawn	Chocolate Fawn
<i>Kiwi Lamorena Del</i>	Brindle	Black & Tan
<i>Kyle Mason</i>	Fawn	Blue Fawn
<i>Lady Silver Belle</i>	Fawn With Black Mask	Blue Fawn
<i>Laforaat Geneva</i>	Fawn	Chocolate Fawn
<i>Large In Charge</i>	Dark Brindle	Blue
<i>Leda Pepe Ilgajokine</i>	Fawn & White	Lemon Pied
<i>Leodisbull Ghostwriter</i>	Fawn	Cream
<i>Lezbullz Cosmo Pepe Le Pew</i>	Pied	Blue Pied
<i>Lilac Leonidas</i>	Fawn	Lilac Fawn
<i>Lilac Markiz For Utopia Bully</i>	Fawn	Lilac Platinum
<i>Lilac Romeo</i>	Fawn	Lilac
<i>Lilo At Paledeto</i>	Fawn	Lilac
<i>Little Blue Gem</i>	Brindle	Blue
<i>Little Buddy</i>	Pied	Blue
<i>Little Monster Chip At Namroht</i>	Brindle	Chocolate
<i>Little Monster Future War</i>	Brindle	Blue
<i>Little Monster Janka</i>	Fawn	Blue
<i>Little Monster McDonald</i>	Fawn	Chocolate Fawn
<i>Little William</i>	Pied	Blue Pied
<i>Louivids Shelby's Pearl</i>	Pied	Blue Pied
<i>Lucious Lilo Lilac At Paledeto</i>	Fawn	Lilac & Tan
<i>Luis Carlos B Snapsy</i>	Fawn	Blue Fawn
<i>Luis Carlos Blue Lagoon At Marcieloo</i>	Brindle	Blue
<i>Lunamix Boswell The Brave</i>	Fawn With Black Mask	Chocolate Fawn
<i>Mad Bomber Kliff</i>	Dark Brindle	Blue
<i>Mad Bomber Kristhian</i>	Brindle	Blue
<i>Maeo's King Blood</i>	Fawn	Lilac & Tan

Registered Name	Registered Colour	Actual Colour
<i>Magic Belle-Colora</i>	Pied	Black & Tan
<i>Malty Maltesers</i>	Light Brindle	Lilac Brindle
<i>Marhol's Golden Boy Fawn</i>	Fawn	Blue Fawn
<i>Martini's Spol Bo</i>	Fawn	Blue & Tan
<i>Massive King Tobias</i>	Fawn	Blue
<i>Maximus Lord Of Kingdoms</i>	Fawn	Blue Fawn
<i>Midnight Elixir</i>	Fawn With Black Mask	Blue Fawn
<i>Miss May</i>	Pied	Blue Pied
<i>Mitsy Midnight Sky</i>	Pied	Blue Pied
<i>Mixmup's Cocoa Dream</i>	Brindle	Silver Chocolate Brindle
<i>Morganzbullz My Lilac Fawn</i>	Fawn	Lilac Fawn
<i>Mr Dan The Man</i>	Fawn	Blue Fawn
<i>Mr Kipling</i>	Fawn	Cream Pied
<i>My Didi Delight</i>	Fawn	Blue Fawn
<i>My Little Greek Goddess Of Lindonybulz</i>	Fawn	Blue Fawn
<i>My Man</i>	Fawn	Lilac & Tan
<i>Namroht Malcolm'X</i>	Fawn	Chocolate Fawn
<i>Namroht Too Tone Tess</i>	Pied	Blue Pied
<i>Navy Boy</i>	Brindle	Blue
<i>Nortorious Gangsta</i>	Fawn	Blue & Tan
<i>Oh So Blue</i>	Fawn	Blue Fawn
<i>Orlando Orlando</i>	Fawn	Blue & Tan
<i>Pablo Escabone</i>	Brindle	Blue
<i>Peakstone Blue Blanket</i>	Pied	Blue Pied
<i>Peandokry King Of Rock N'Roll</i>	Brindle	Blue
<i>Peandokry Zegna Zen</i>	Pied	Blue Pied
<i>Philip's Cooldog Ameer</i>	Brindle	Blue
<i>Pinky Pink</i>	Pied	Blue Pied
<i>Pretty Little Minx</i>	Fawn & White	Blue Fawn
<i>Prince Alder</i>	Brindle	Blue
<i>Prince Bale</i>	Fawn	Blue
<i>Reuben Slavniy Warrior Iz Russkoi Skazki</i>	Fawn	Blue & Tan
<i>Rio Boy</i>	Fawn	Blue Fawn
<i>Rocco Slava Emperor Iz Russkoi Skazki</i>	Fawn	Lilac
<i>Shadowed Dreamer</i>	Brindle	Black
<i>Shark Bull Kristopher</i>	Brindle	Blue Brindle
<i>Shark Bull Max</i>	Brindle	Blue Brindle
<i>Shark Bull Minnie</i>	Brindle	Blue
<i>Shark Bull Ranger</i>	Brindle	Blue
<i>Shark Bull Raoul</i>	Brindle	Blue
<i>Shark Bull Titan</i>	Brindle	Blue
<i>Shark Lothar</i>	Brindle	Blue
<i>Shark Suzi</i>	Brindle	Blue Brindle

Registered Name	Registered Colour	Actual Colour
<i>Sharky Boy</i>	Brindle	Blue
<i>Sharky Lotha</i>	Dark Brindle	Blue
<i>Shrinkabulls Half Moon With Justeph</i>	Brindle & White	Blue & Tan
<i>Shrinkabulls Master Vegas</i>	Fawn & White	Blue & Tan Brindle
<i>Shrinkabulls Miss Phoenix</i>	Fawn & White	Blue & White
<i>Silverblood Choc Bar</i>	Fawn	Chocolate Fawn
<i>Silverblood Lilac Legend</i>	Fawn	Lilac Fawn
<i>Silverblood Lilac Levi</i>	Brindle	Lilac
<i>Silverday Dream</i>	Pied	Blue Pied
<i>Sio-Parti Bulldozer Brutus From Gamico</i>	Brindle	Blue
<i>Sir Winston</i>	Fawn	Platinum Cream
<i>Sir Wonderful</i>	Light Brindle	Blue & Tan
<i>Skyarm's Mr Kipling</i>	Pied	Cream
<i>Snow Choc King</i>	White	Lilac & Tan
<i>Soilder Boy</i>	Brindle	Blue
<i>Spotty Master</i>	Brindle	Blue
<i>Starblubulls Full Of Desire</i>	Fawn	Blue Fawn
<i>Sterling Moss</i>	Pied	Blue Pied
<i>Sweet Child Of Mine</i>	Fawn	Blue & Tan
<i>Sweet Princess Mae</i>	Fawn	Blue Fawn
<i>Szureti Golden Baron</i>	Brindle	Blue Brindle
<i>Szureti Golden Blue Dream</i>	Brindle	Blue
<i>Szureti Golden Chrom Maximus</i>	Pied	Blue Pied
<i>Szureti Golden Dark Jessica</i>	Pied	Blue Pied
<i>Szureti Golden Eden Tom Of Burtonians</i>	Brindle	Blue
<i>Szureti Golden Gap Blue Of Lajuno</i>	Fawn	Blue Fawn
<i>Szureti Golden Minnie Of Burtonians</i>	Pied	Blue Pied
<i>The Golden Prophet Eli</i>	Fawn	Blue & Tan
<i>The Lilac Prince</i>	Fawn	Lilac Fawn
<i>The Samiad</i>	Fawn	Chocolate Fawn
<i>Toro Von Bad-Bull</i>	Fawn	Blue
<i>Toyboy Of Frenchie Connection</i>	Brindle & White	Blue & White
<i>Unicum Buldy Pepe Of Lajuno</i>	Brindle	Blue & White
<i>Unique Frenchies Turbo</i>	Fawn	Lilac & Tan
<i>Uniquefrench Big Bucks</i>	Brindle	Blue & Tan
<i>Uniquefrench Bruno Mars</i>	Fawn	Chocolate Fawn
<i>Uniquefrench Grime</i>	Fawn	Lilac Fawn
<i>Uniquefrench Iggy Azalea</i>	Fawn	Blue Fawn
<i>Uniquefrench Legacy</i>	Fawn	Blue & Tan
<i>Uniquefrench Leonardo</i>	Fawn	Lilac
<i>Uniquefrench My Super Ted</i>	Fawn	Blue & Tan
<i>Uniquefrench Perfection</i>	Brindle	Blue & Tan
<i>Uniquefrench Purple Kenzo</i>	Fawn	Lilac



Registered Name	Registered Colour	Actual Colour
<i>Uniquefrench Titan</i>	Fawn	Lilac Fawn
<i>Uniquefrench Top Dollar</i>	Brindle	Blue & Tan
<i>Uniquefrench Yogi Bear</i>	Fawn	Blue Fawn
<i>Wantabullz Bulla</i>	Fawn	Blue & Tan
<i>Wantabullz Tonk The Man</i>	Fawn	Blue Fawn
<i>WCFB Wilbur</i>	Fawn	Lilac & Tan
<i>White-Ghost-Bull Zsolo From Justeph</i>	Brindle	Chocolate
<i>Xena Hench Boy</i>	Brindle	Blue
<i>Xufus</i>	Fawn	Chocolate Fawn
<i>Youthful King Henry</i>	Dark Brindle	Blue
<i>Zolee's Dog-Floppy</i>	Pied	Blue & White

## Litter Summaries

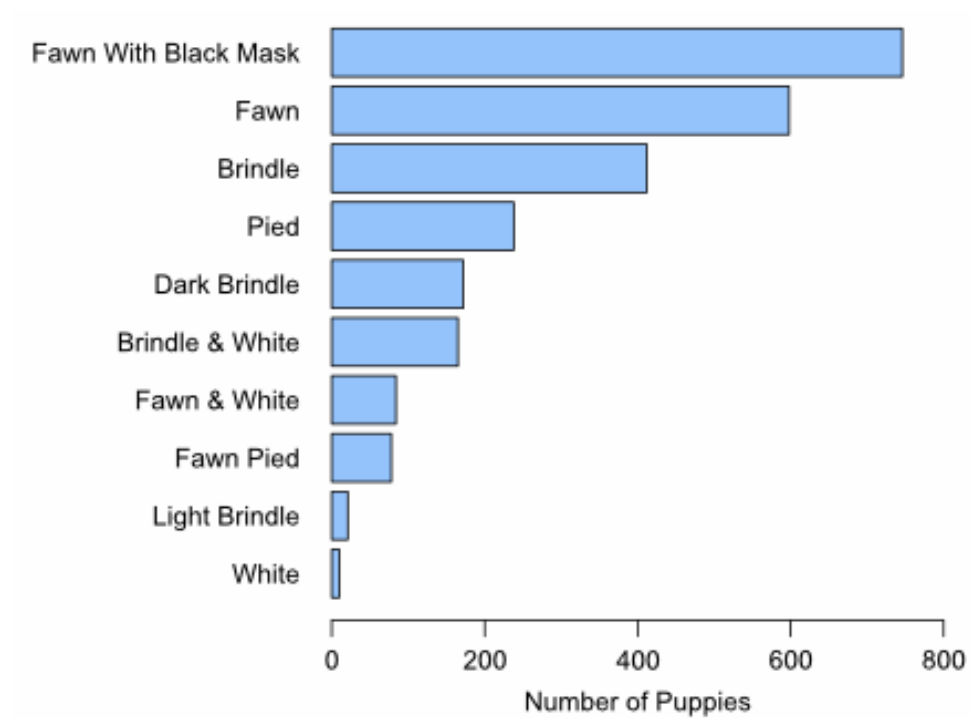
### Standard Colour

594 standard colour French bulldog litters were registered with the KC in 2018, consisting of 2,524 puppies, divided as indicated in **Table 2**.

*Table 2. Standard colour French bulldog litters registered in 2018.*

	Q1	Q2	Q3	Q4	Total
Litters	147	142	162	143	594
Puppies	640	622	673	589	2,524

The most popular colour for puppies from these litters was registered as 'Fawn With Black Mask' (29.6%). The puppy colour breakdown is shown in **Figure 1**.



*Figure 1. Colour of puppies registered in standard colour French bulldog litters.*

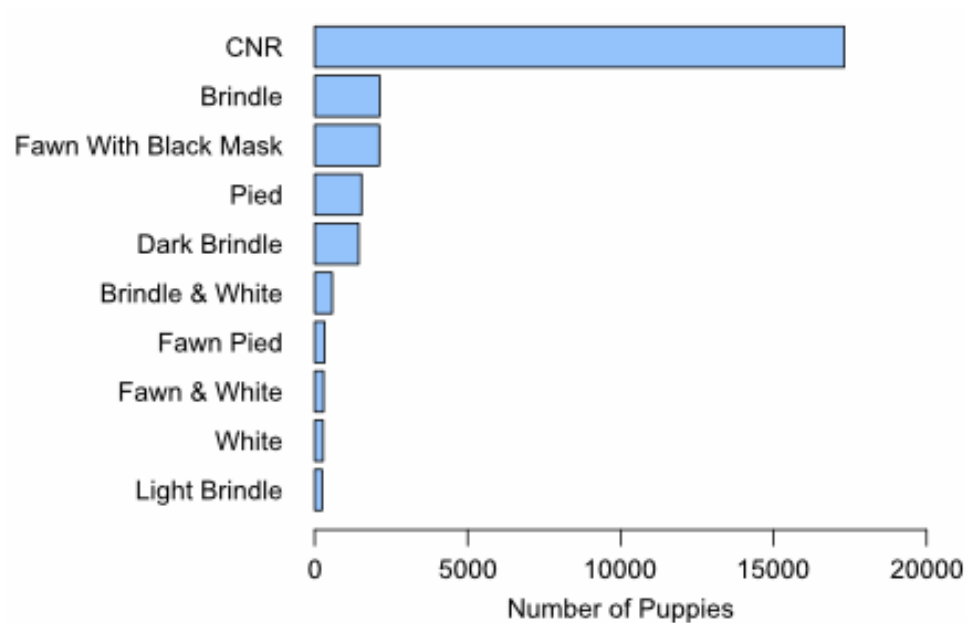
## Colour Not Recognised (CNR)

6,711 CNR French bulldog litters were registered with the KC in 2018, consisting of 33,542 puppies, divided as indicated in *Table 3*.

*Table 3. CNR French bulldog litters registered in 2018.*

	Q1	Q2	Q3	Q4	Total
Litters	1,529	1,562	1,768	1,852	6,711
Puppies	7,618	7,881	8,833	9,210	33,542

Most puppies from these litters were registered as 'CNR' (51.6%). The puppy colour breakdown is shown in *Figure 2*.

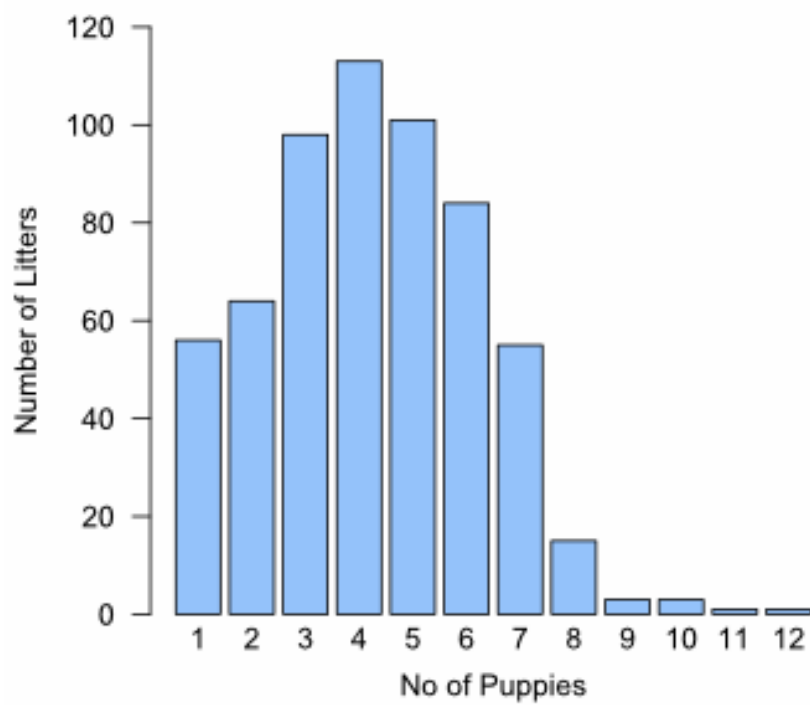


*Figure 2. Colour of puppies registered in CNR French bulldog litters.*

## Litter Size

### Standard Colour

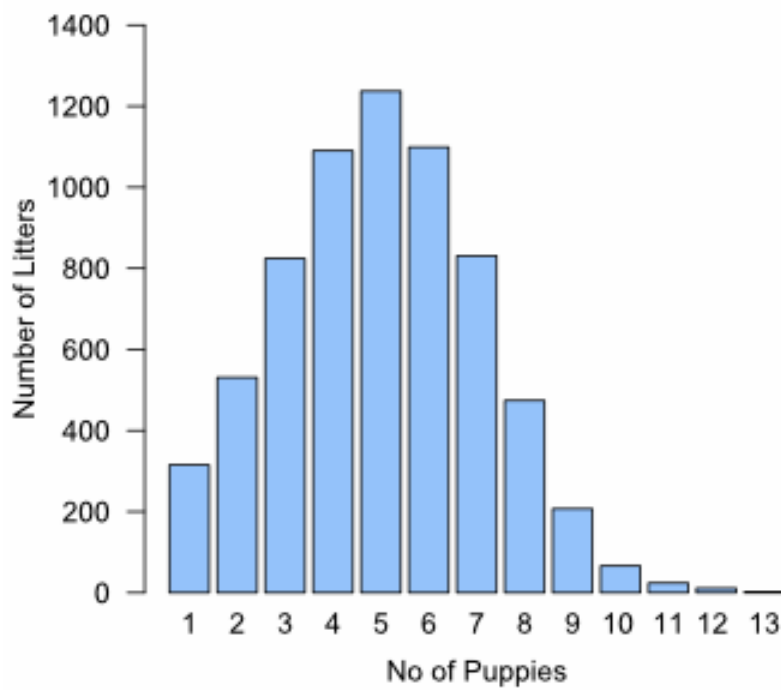
The mean number of puppies in standard colour litters was 4.2, whilst the median was 4. The distribution of puppy numbers per litter is shown in *Figure 3*.



*Figure 3.* Number of registered puppies in standard colour French bulldog litters.

## Colour Not Recognised (CNR)

The mean number of puppies in CNR litters was 5, whilst the median was also 5. The distribution of puppy numbers per litter is shown in *Figure 4*.



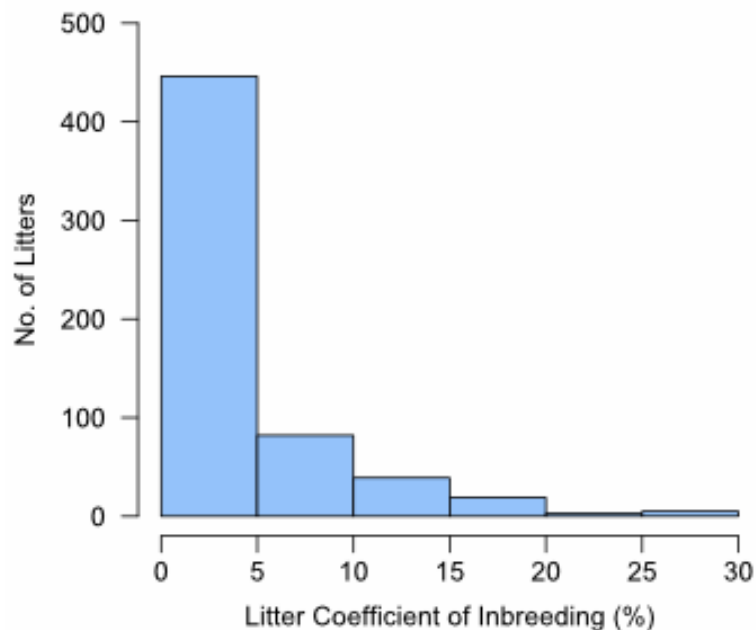
*Figure 4.* Number of registered puppies in CNR French bulldog litters.

## Coefficient of Inbreeding (COI)

The litter coefficient of inbreeding (COI) is a measure of inbreeding, expressed as a percentage probability of the same variation being inherited from the sire and the dam. A lower percentage indicates a lower level of inbreeding. myKC calculates the COI for each dog using all available pedigree information. One consideration to be considered is that limited pedigree information affects results, as with imported dogs which only come with a three-generation pedigree, and the lack of pedigree information further in the past. The KC will not register litters produced by a father/daughter, mother/son or brother/sister mating.

## Standard Colour

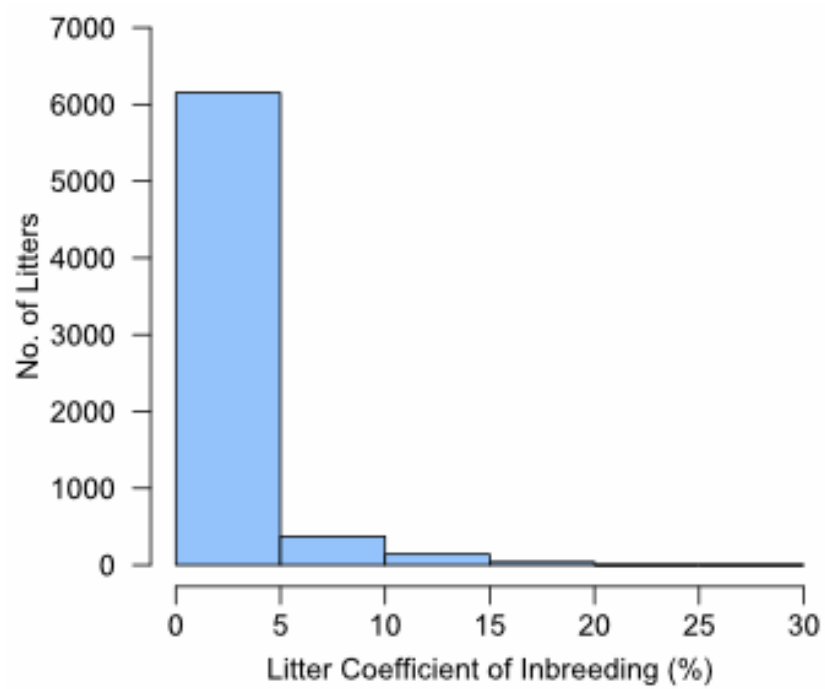
**Figure 5** shows the distribution of COI for the standard colour French bulldog litters registered in 2018. The mean COI was 4.1% and the median COI was 2.4%. The highest recorded COI was 29.0%, and 5 litters were recorded with COI over 25% (the equivalent of a parent/child or brother/sister mating).



**Figure 5.** Histogram of the coefficient of inbreeding of standard colour French bulldog litters registered in 2018.

## Colour Not Recognised (CNR)

**Figure 6** shows the distribution of COI for the CNR French bulldog litters registered in 2018. The mean COI was 2.3% and the median COI was 1.5%. The highest recorded COI was 30.0%.

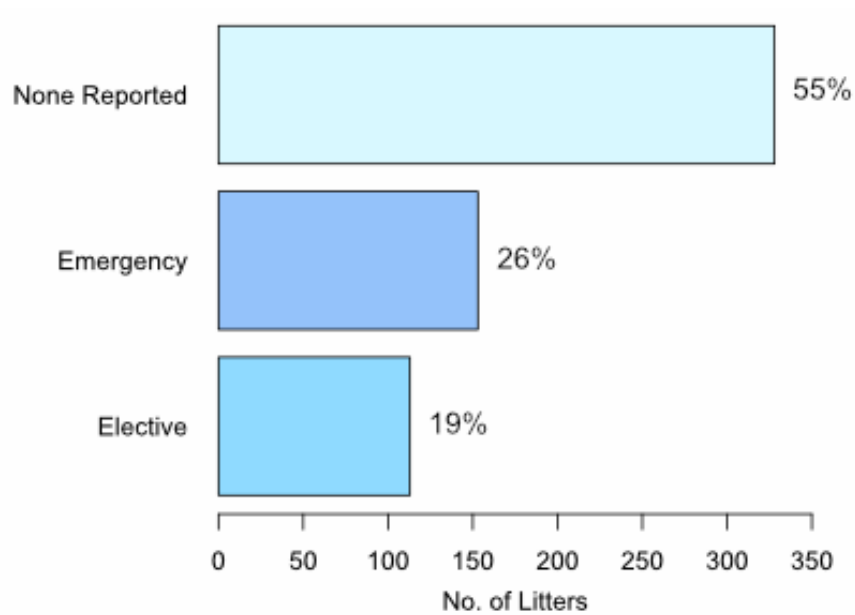


**Figure 6.** Histogram of the coefficient of inbreeding of CNR French bulldog litters registered in 2018.

## Caesarean Sections (C-Sections)

### Standard Colour

44% of registered standard colour French bulldog litters were delivered by a reported Caesarean section (*Figure 7*). Of those litters where natural birth is presumed to have been attempted, 32% of litters were reported to be delivered by emergency C-Section.

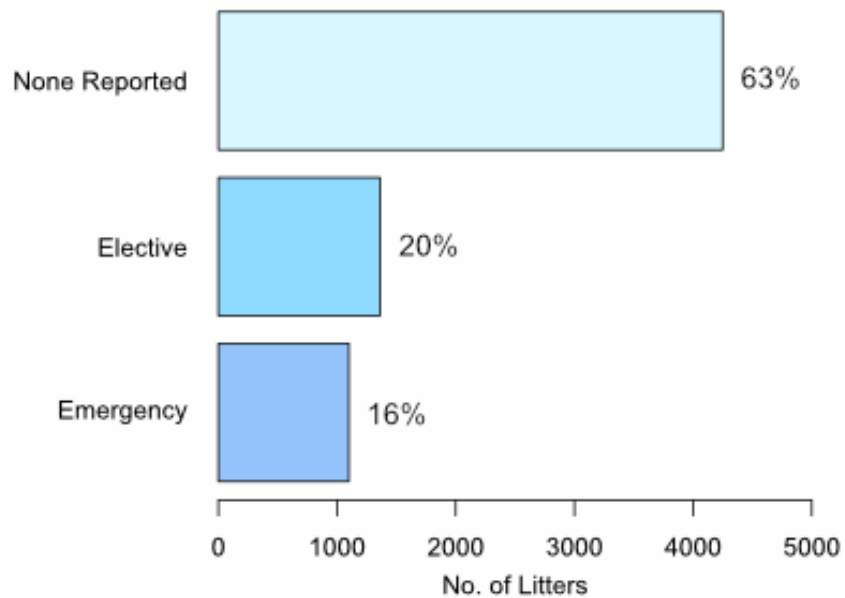


*Figure 7. Reported C-section information for standard colour French bulldog litters.*



## Colour Not Recognised (CNR)

37% of registered CNR French bulldog litters were delivered by a reported Caesarean section (*Figure 8*). Of those litters where natural birth is presumed to have been attempted, 21% of litters were reported to be delivered by emergency C-Section.



*Figure 8. Reported C-section information for CNR French bulldog litters.*

## Parents

### Standard Colour

The standard colour French bulldog litters were produced by 306 different sires and 592 different dams. 46 of the sires are imports from other countries, whilst 57 of the dams are the same. These countries consist of Belgium, Bulgaria, Belarus, Croatia, Czechia, Denmark, France, Hungary, Ireland, Lithuania, Latvia, Poland, Portugal, Russia, Serbia, Slovakia, Spain, The Netherlands and Ukraine.

### Colour Not Recognised (CNR)

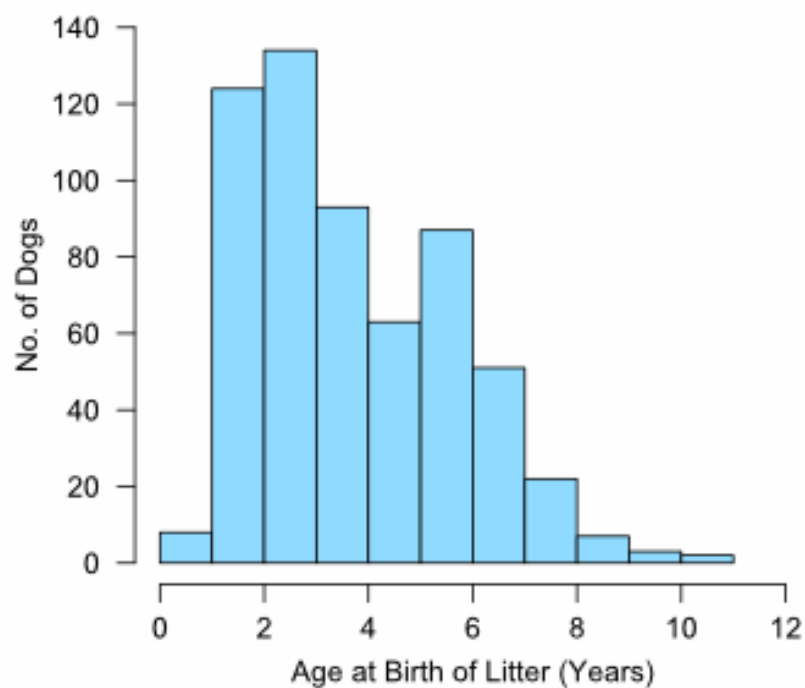
The CNR bulldog litters were produced by 2,051 different sires and 6,451 different dams. 124 of the sires are imports from other countries, whilst 194 of the dams are the same. These countries consist of Belgium, Belarus, Bulgaria, Canada, Croatia, Cyprus, France, Germany, Hungary, Ireland, Lithuania, Malta, Montenegro, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, The Netherlands, Ukraine and the USA.

## Age of Sires

### Standard Colour

**Figure 9** shows the distribution of the age of sires at birth of the litters. The mean age of sires at the birth of the litter is 3.71 years, whilst the median age is 3.23 years. The maximum age of sire at birth of a litter is 10.94 years, whilst the minimum is 0.78 years.

Assuming a gestation time of approximately 60 days (or 0.17 years), the predicted mean age of sires at conception of the litter is 3.54 years, whilst the median age is 3.06 years. Under the same assumption, 155 litters (26%) are predicted to have been conceived when the sire was under 2 years of age.

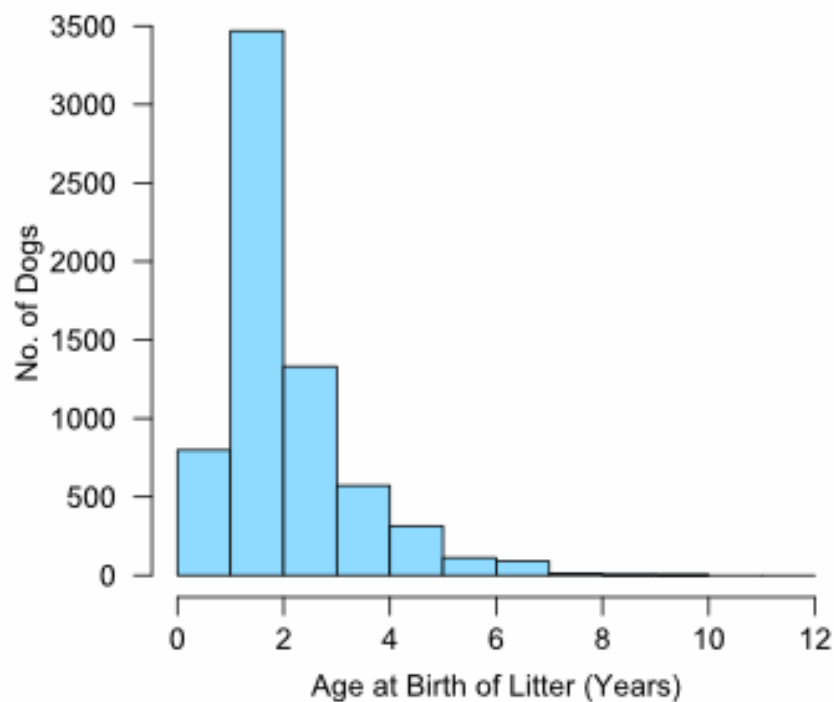


**Figure 9.** Age of sires at birth of standard colour French bulldog litters.

## Colour Not Recognised (CNR)

**Figure 10** shows the distribution of the age of sires at birth of the litters. The mean age of sires at the birth of the litter is 2.03 years, whilst the median age is 1.66 years. The maximum age of sire at birth of a litter is 9.74 years, whilst the minimum is 0.43 years.

Assuming a gestation time of approximately 60 days (or 0.17 years), the predicted mean age of sires at conception of the litter is 1.86 years, whilst the median age is 1.49 years. Under the same assumption, 4597 litters (69%) are predicted to have been conceived when the sire was under 2 years of age.



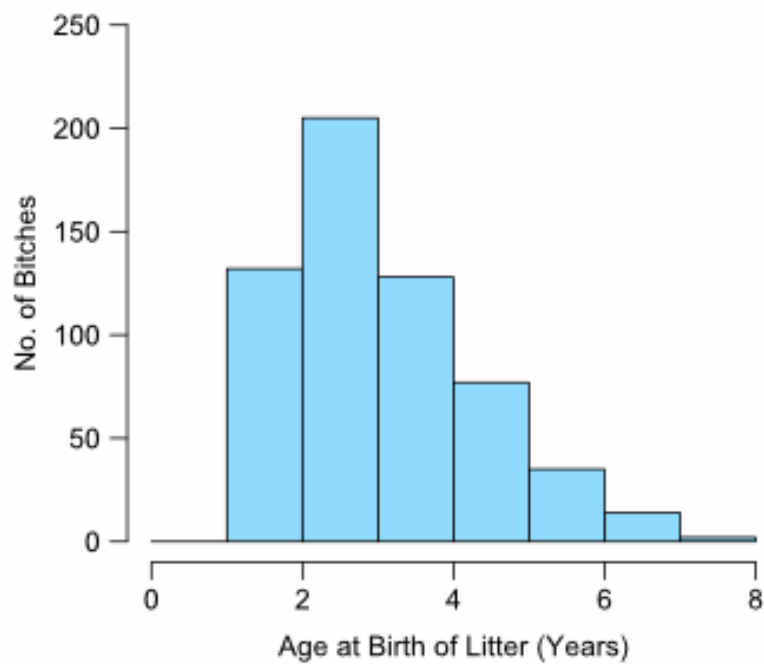
**Figure 10.** Age of sires at birth of CNR French Bulldog litters.

## Age of Dams

### Standard Colour

**Figure 11** shows the distribution of the age of dams at birth of the litters. The mean age of dams at the birth of the litter is 3.04 years, whilst the median age is 2.79 years. The maximum age of a dam at birth of a litter is 7.36 years, whilst the minimum is 1.17 years.

Assuming a gestation time of approximately 60 days (or 0.17 years), the predicted mean age of dams at conception of the litter is 2.87 years, whilst the median age is 2.62 years. Under the same assumption, 171 litters (29%) are predicted to have been conceived when the dam was under 2 years of age.

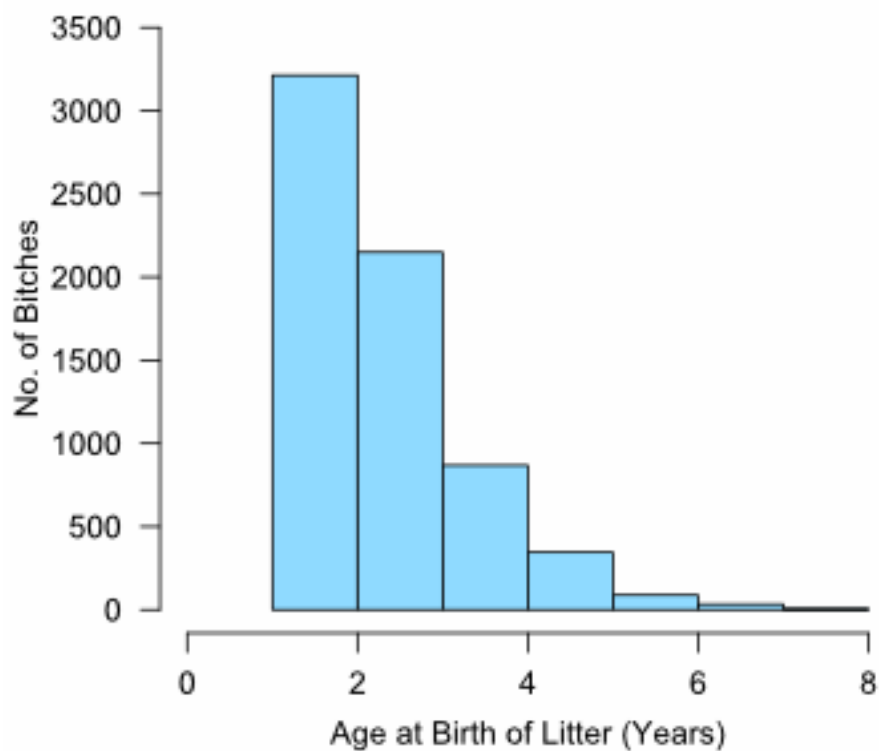


**Figure 11.** Age of dams at birth of standard colour French bulldog litters.

## Colour Not Recognised (CNR)

**Figure 12** shows the distribution of the age of dams at birth of the litters. The mean age of dams at the birth of the litter is 2.32 years, whilst the median age is 2.05 years. The maximum age of a dam at birth of a litter is 7.74 years, whilst the minimum is 1.15 years.

Assuming a gestation time of approximately 60 days (or 0.17 years), the predicted mean age of dams at conception of the litter is 2.15 years, whilst the median age is 1.88 years. Under the same assumption, 3699 litters (55%) are predicted to have been conceived when the dam was under 2 years of age.



*Figure 12. Age of dams at birth of CNR French bulldog litters.*

## Popular Sires

### Standard Colour

102 dogs sired more than one standard colour litters registered in 2018, whilst 5 dogs sired more than ten (*Table 4*).

*Table 4. Sires with more than ten registered standard colour French bulldog litters in 2018.*

Name	No. Registered Litters 2018	Total Registered Litters	French Bulldog Health Scheme
International Playboy	19	109	Silver
Eastonite Hurricane	18	33	Silver
Eastonite Aca At Millaven	18	43	Gold
Titantails Boardwalk Bulet	15	26	Gold
Wildax Smokey Robinson	11	65	None

## Colour Not Recognised (CNR)

973 dogs sired more than one CNR litters registered in 2018, whilst 124 dogs sired more than ten (*Table 5*).

*Table 5. Sires with more than ten registered CNR French bulldog litters in 2018.*

Name	Colour (Where Known)	No. Registered Litters 2018	Total Registered Litters	French Bulldog Health Scheme
Unique Frenchies Turbo	Lilac & Tan	98	142	None
Groove Rider		81	83	None
Morganzbullz My Lilac Fawn	Lilac Fawn	62	132	None
Primofrench Irvin		62	71	None
The Masterpiece	Lilac Platinum	62	103	None
Roulette Racer At Mackasbull	Chocolate & Tan	50	67	None
Herbert Connection	Lilac & Tan	49	64	None
Justeph Mister Rambo At Essexbull	Blue	47	107	None
Kensteen That's My Job At Essexbull	Blue & Tan	37	50	None
Lord Toy Boy At Mackasbull		37	37	None
Sir Waltzer		37	50	None
Tommy Traps	Lilac & Tan	37	75	None
Laity's Checkmate		35	51	None
San Jose Shark		35	40	None
True To The Chase	Lilac & Tan	34	69	None
King Of Northenbullyes	Blue & Tan	31	119	None
Unique Predator	Lilac & Tan	31	33	None
Little Monster Future War	Blue	30	38	None
Mr Kipling	Cream Pied	30	30	None
Sprocket Rocket		30	35	None
Blu Baby Boy	Lilac Sable	29	37	None
Marshalls Madness		29	34	None
Justeph Fawn Moon Master	Blue Fawn	28	65	None
The Huntsman	Blue & Tan	27	74	None
Lilac Billy The Kid	Lilac & Cream	26	34	None
Uniquefrench Legacy	Blue & Tan	25	87	None
Lilac Legend		24	29	None
Russian Zsar At Paledeto		24	38	None
Creed Of Jackpot	Lilac & Tan	23	27	None
Trend A Bullz Rolex Good Times	Lilac & Tan	23	41	None
Lilac Tan Iron Man		22	36	None
Charli Chaplin	Blue	21	46	None
Diamond Super Man	Lilac & Tan	21	83	None
Frenchiestar Bailey At Archbulls		21	68	None
Brokker		20	32	None
Alexei Rare Gery Bulls	Black & Tan	19	32	Bronze
Navy Boy		19	64	None
Star Boy		19	27	None
The Liquorice Allsort		19	30	None
Kensteen Full Moon	Blue & Tan	18	36	None
Possibly Me		18	29	None
Prince Of Lilacs	Lilac & Tan	18	25	None
Silverblood Choc Bar	Chocolate Fawn	18	25	None
Xufus	Chocolate Fawn	18	21	None
Charalyns Can't Touch This From Gamico		17	22	None
Frosty Blu Eyes	Blue & Tan	17	20	None
Kentixen Eternal Flame Of Lindonybulz	Blue & Tan	17	25	Silver
King Rocco One For The Ladies	Chocolate & Tan	17	26	None
Platinum Tank	Lilac	17	20	None



Name	Colour (Where Known)	No. Registered Litters 2018	Total Registered Litters	FBCE Health Scheme
Uniquefrench Purple Kenzo	Lilac	17	71	None
Elvis Special Boy		16	34	None
Iron County Lada		16	59	Bronze
Kenaiteen Coronado		16	19	None
Kensteen November Sun		16	17	None
Lilac Cass Boy	Black & Tan	16	26	None
Starblubulls Starman	Blue & Tan	16	28	Silver
Van Dutch		16	22	None
Boycie Boy	Blue & Tan	15	28	None
Caneamore Cheleb At Zobagz	Blue & Sable Tan	15	19	None
Dyfed Blueish Casper	Blue	15	44	None
Espresso Rich Indulgence		15	18	None
Hollywood Lilac King	Lilac & Tan	15	20	None
Howdy Barney	Blue Fawn	15	18	None
Need You Bad	Lilac & Tan	15	20	None
Bolmond Of Burtonians		14	19	None
It's Ferris	Blue Fawn	14	22	None
King Of England	Blue	14	23	None
Mimi Garcon At Showproud	Blue	14	27	None
Monsieur Ciel Bleu	Blue	14	94	None
Silver Moon At Elangelblue	Lilac Fawn	14	48	None
Sunshines Boy Revel		14	14	Silver
The Baker	Lilac & Tan	14	15	None
Tiarabulls Lovely Lamu		14	19	None
Cervelo Creme Bellesoeur		13	14	Silver
Charudi Crafty King		13	17	None
Chocoablue Sydney	Chocolate Fawn	13	20	Bronze
Heartabullz Maximus	Blue & Tan	13	19	None
Jakz Gallardo	Blue & Tan	13	31	None
Lilac Romeo	Lilac	13	42	None
Mister Million		13	13	None
Prince Pablo Escobar		13	14	None
Starblubulls Moonshine		13	36	None
Tresbelle The Heffner	Lilac & Tan	13	29	None
Uniquefrench Poker Face		13	17	None
Vindogs The Creator	Chocolate Fawn	13	18	None
Azure Bazz	Blue	12	52	None
Biggy Big Boy	Lilac & Tan	12	13	None
Chocoablue Tokyo	Chocolate & Tan	12	35	None
Codedbullyz Blue Boy	Blue & Tan	12	27	None
Curlys Bazinga	Chocolate & Tan	12	91	None
Ian		12	33	None
It's Now Or Never	Lilac & Tan	12	67	None
Kensteen Arizona Sunset	Blue & Tan	12	13	None
Kentixen Perfect Panama	Blue & Tan	12	53	None
Lilac Lincoln	Lilac & Tan	12	13	None
Mini Meech Of Frenchyview	Blue & Tan	12	20	None
Morganzbullz Lord Of Creams		12	13	None
My Time	Lilac & Tan	12	12	None
Purple Shaded Lilac		12	16	None
Relaxabullz Alchemilla		12	19	None
Super Teddy Bear		12	26	None
Sweet Riley Boy		12	13	None
The Field Marshall	Lilac Platinum	12	14	None
The Strong Fella	Blue	12	20	None
Blue Bruiser		11	13	None

Name	Colour (Where Known)	No. Registered Litters 2018	Total Registered Litters	FBCE Health Scheme
Bobby The Dazzler	Lilac Fawn	11	22	None
Codedbullyz The Guardian		11	34	None
Dazabulls Bucks Fizz	Black & Tan	11	16	Bronze
Fabulous Future		11	40	None
Henrys Lilac Hero	Lilac Fawn	11	12	None
Kensteen Better Place		11	15	None
Kentixen Barnsley of Cwmser		11	21	None
Little Buddy		11	37	None
Little Mad Messi	Blue	11	108	None
Loopie Lovely		11	12	None
Mojito Blanco		11	15	None
Monster Two Tone At Southcity	Blue & Tan	11	29	None
Ready Up And Over	Black & Tan	11	16	Gold
Regal Decree		11	20	None
Silly Bruno		11	15	None
Sir Suarez Soiree Of Rosagocol	Blue	11	54	None
The Xfactor		11	17	None
Unique Boss	Blue & Tan	11	18	None
Uniquefrench Blue Blizzard		11	16	None

## Health Testing

The Kennel Club recommends breeders should use the following health testing schemes:

- HC-HSF4 (hyperuricosuria) DNA testing
- DM (degenerative myelopathy) DNA testing
- Eye Testing
- French Bulldog Health Scheme

## HC-HSF4 DNA Testing

Hereditary cataracts is a disease affecting the lens of the eye. In affected dogs, the lens of the eye loses transparency, forming an opaque cataract. This can cover the whole lens, leading to blindness in that eye. A DNA test is available for the mutation causing a specific form of cataracts (HC-HSF4) in French bulldogs.

HC-HSF4 cataracts in French bulldogs is recessively inherited, meaning if at least one parent has tested clear or is hereditary clear for the HUU mutation all puppies from that litter are safe.

## Standard Colour

425 (71.5%) of standard colour French bulldog litters had at least one parent either tested clear or hereditary clear for HC-HSF4, meaning all puppies were non-affected. No litters were produced from two carrier parents, putting the offspring at confirmed risk of HC-HSF4, and there were no litters for which HC-HSF4 testing results were only available for one parent, who had tested as a carrier/affected.

## Colour Not Recognised (CNR)

2082 (31.0%) of CNR French bulldog litters had at least one parent either tested clear or hereditary clear for HC-HSF4, meaning all puppies were non-affected. No litters were produced from two carrier parents, putting the offspring at confirmed risk of HC-HSF4, and there were no litters for which HC-HSF4 testing results were only available for one parent, who had tested as a carrier/affected.

## DM DNA Testing

DM (degenerative myelopathy) is a disease affecting the spinal cord. In affected dogs, the white matter containing nerve fibres which transmit nerve impulses related to movement deteriorate. This leads to progressive loss of coordination, resulting in paralysis.

A DNA test is available for a mutation which is strongly associated with the development of DM in French bulldogs. This mutation is recessively inherited – dogs with two mutant copies of the gene are at increased risk of developing DM. However, dogs with two mutant copies of the gene do not always go on to develop symptomatic DM.

## Standard Colour

296 (49.8%) of standard colour French bulldog litters had at least one parent either tested clear or hereditary clear for DM, meaning all puppies were non-affected. No litters were produced from two carrier parents, putting the offspring at confirmed risk of DM. For 14 litters, DM testing results were only available for one parent, who had tested as a carrier. These litters were potentially at risk for DM, depending on the DM status of the second parent.

## Colour Not Recognised (CNR)

1479 (22.0%) of CNR French bulldog litters had at least one parent either tested clear or hereditary clear for DM, meaning all puppies were non-affected. One litter was produced from a carrier/dual carrier mating and two litters were produced from two carrier parents, putting the offspring at confirmed risk of DM. For 118 litters, DM testing results were only available for one parent, who had tested as a carrier/affected. These litters were also potentially at risk for DM, depending on the DM status of the second parent.

## Eye Testing

French bulldogs are recommended to undergo eye testing, under the KC/BVA/ISDS Eye Scheme or the ECVO Scheme.

Under the KC/BVA/ISDS Eye Scheme, French bulldogs do not have any eye conditions that are schedule A (known to be inherited). Early developing hereditary cataracts is a schedule B condition in French bulldogs (suspected of being inherited).

EVCO Scheme examinations cover 14 inherited eye conditions as well as a general examination of the eye, potentially revealing other eye diseases.

As there are no schedule A conditions in French bulldogs, affected/unaffected status is not recorded on the myKC site. Therefore, where eye tests have been carried out, it is unknown from examining the myKC record what eye abnormalities/conditions may have been identified.

## Standard Colour

Two standard colour French bulldog litters were produced from two eye tested parents. Another twelve litters were produced from one eye tested parent. The mean age at the time of the eye exam was 1.96 years and the median age at the time of the eye exam was 1.74 years. Two standard colour French bulldogs had been tested twice.

## Colour Not Recognised (CNR)

Eleven CNR French bulldog litters were produced from two eye tested parents. Another 79 litters were produced from one eye tested parent. The mean age at the time of the eye exam was 1.98 years and the median age at the time of the eye exam was 1.80 years. One CNR French bulldog had been tested twice and one had been tested three times.

## French Bulldog Health Scheme

The French Bulldog Club of England have developed a health scheme to promote health testing and healthier French bulldogs. This scheme consists of three levels: gold, silver and bronze.

French Bulldogs achieving bronze must be tested at or after 12 months (1 year) of age. Dogs can be assessed by any vet, and the examination covers ears, eyes, the heart, breathing, skin, basic conformation and temperament. There is no failure at the bronze level – i.e. any assessed dog can achieve bronze level, regardless of its health.

To achieve silver level, French bulldogs must first be awarded the bronze level. Additionally, dogs must: achieve a grade of 0 or 1 in a BOAS (Brachycephalic Obstructive Airway Syndrome) test; have grade 1 or 2 nostrils, though exceptions can be made for dogs with grade 3 nostrils who are grade 0 or 1 in the BOAS test; be heart tested normal; achieve a grade 0/1 Putnam test assessing luxating patellas; test clear for the HC-HSF4 mutation; and test with clear or carrier for the DM mutation.

Only dogs over 24 months (2 years) of age can be tested for and achieve the gold level. French Bulldogs must obtain a BOAS grade of 0 or 1 in a test carried out under the official Kennel Club and University of Cambridge Respiratory Function Grading Scheme, performed by an approved assessor. They must also have a repeated heart test with a normal result. Finally, the dog must have spinal x-rays (dorso-ventral and lateral views), evaluated by the vet, though there is currently no pass or fail criteria for this part of the assessment.

## Standard Colour

16 different gold-tested males and 15 gold-tested females produced registered standard colour litters in 2018. Eight litters (1.3%) were produced from two gold-tested French bulldog parents (**Table 6**). 9.9% of standard colour litters registered in 2018 were produced from two parents, both tested to at least silver standard. Just under half (46.4%) of litters had at least one parent tested to some level, and 16.4% of litters had both parents achieving some level in the testing scheme.

		Dam			
		Gold (15)	Silver (67)	Bronze (56)	None (455)
Sire	Gold (16)	8	24	9	30
	Silver (41)	5	22	19	69
	Bronze (18)	0	4	7	39
	None (231)	2	17	21	318

**Table 6.** French Bulldog Health Scheme levels of the parents of standard colour French bulldog litters registered in 2018. In brackets next to the level achieved is the number of individual dogs which have litters included in the column or row following.

## Colour Not Recognised (CNR)

10 different gold-tested males and 8 gold-tested females produced registered CNR litters in 2018. Five litters (0.07%) were produced from two gold-tested French bulldog parents (**Table 7**). 50 (0.7%) of CNR litters registered in 2018 were produced from two parents, both tested to at least silver standard. 9.4% of litters had at least one parent tested to some level, and 1.3% (92) of litters had both parents achieving some level in the testing scheme.

		Dam			
		Gold (8)	Silver (98)	Bronze (83)	None (6,262)
Sire	Gold (10)	5	6	6	25
	Silver (66)	1	38	9	222
	Bronze (43)	0	11	16	137
	None (1,932)	2	45	53	6,135

**Table 7.** French Bulldog Health Scheme levels of the parents of CNR French bulldog litters registered in 2018. In brackets next to the level achieved is the number of individual dogs which have litters included in the column or row following.

## Additional Information

In 2019, the Respiratory Function Grading Scheme, developed by the University of Cambridge and the Kennel Club, was launched. This allows official registration of a breathing assessment with the Kennel Club. This will be important to track in the future.

In December 2018, a paper was published describing the mutation causing the screw tail in French bulldogs (as well as some other breeds)<sup>1</sup>. A recessive mutation was identified in the DVL2 gene, which was present in two copies (homozygous) in all 79 tested French bulldogs. This mutation is similar to a mutation causing the rare disease known as Robinow syndrome in humans, and was associated with vertebral malformations in the thorax, as well as in the caudal (tail) region of the spine.

Six French bulldogs that produced registered litters in 2018 were tested for hip dysplasia using the official KC scheme. The mean two hip score was 12.2 and the median two hip score was 11.5.