



**HORSE SPORT  
IRELAND**

# 2024

## Irish Draught

## Genetic Diversity Report



**Prepared by**  
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# Table of Contents

Foreword 2

Key Takeaways 3

Introduction 4

Population Statistics 5

Pedigree Completeness 9

Inbreeding 10

Kinship 12

Stallions 13



# Foreword

Horse Sport Ireland are delighted to present this comprehensive Irish Draught Genetic Diversity report for 2024. The Irish Draught horse is a breed of profound historical and cultural significance in Ireland, revered for its versatility, strength, temperament and willing nature. Further to this, the objective of the Irish Draught Horse Studbook, through its designated rare status, is the preservation (conservation) and improvement of the Irish Draught horse breed to ensure breed health and sustainability.

The Irish Draught Horse Studbook, maintained by Horse Sport Ireland (HSI), plays a pivotal role in this conservation effort, as do the harmonized studbooks in Great Britain, North America, and Canada.

This report, prepared by Dr. Jennifer Doyle, provides a detailed overview of the genetic diversity of the horses registered in the Irish Draught Horse studbook. It offers a comprehensive analysis of population statistics, inbreeding coefficients, kinship values, and pedigree completeness.

Through this report, we aim to provide valuable insights that will inform future breeding decisions and support breeders with their existing breeding programmes. By understanding the trends in genetic diversity, we can take proactive measures to mitigate inbreeding and promote a healthy, diverse population of Irish Draught horses.

We extend our gratitude to the passionate community of Irish Draught horse breeders who have directly and indirectly contributed to this report and to the broader effort of preserving the Irish Draught horse. It is through the combined effort, dedication and passion of breeders, that the Irish Draught Horse breed continues to thrive worldwide.

Best wishes,

**Sonja Egan, PhD**

**Head of Breeding Innovation  
and Development,  
Horse Sport Ireland**

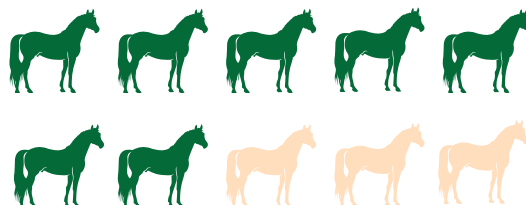


# Key Takeaways



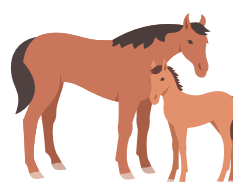
## 996

Number of purebred  
Irish Draught foals  
born in 2023



Nearly 70%  
of 2023 foals  
were born to  
Class 1  
stallions

Use of uninspected  
Class 4 stallions  
and mares is  
increasing each year



92% of foals  
born in last 10  
years have all  
relatives in the  
3rd generation  
recorded

## 5.76

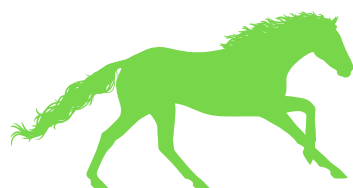


Average number of  
purebred progeny  
per stallion in 2023



Average inbreeding in ID  
foals has never been  
higher than

## 1.75%



## 12.44%

Average thoroughbred  
percentage of active ID  
stallions

## 2.01

Mean kinship of active  
ID stallions with the ID  
mare herd



# Introduction

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The Irish Draught Horse Studbook, maintained by Horse Sport Ireland (HSI), is the studbook of origin of the Irish Draught breed. The Irish Draught is classified as an endangered breed by the Department of Agriculture, Food, and the Marine and as 'endangered maintained' on the Food and Agriculture Organisation's (FAO) World Watch List for Domestic Animal Diversity. Thus, the aim of the breeding programme is to breed Irish Draught Horses with conformation, movement, and temperament that conform to the breed standard, which will make good quality, sound and versatile horses and to ensure the preservation (conservation) and improvement of the Irish Draught horse breed.

Irish Draught mares and stallions are encouraged to be presented for inspection where their type, conformation, movement, and athleticism is assessed against the breed standard. All foals are entered into Class 4 on registration into the Irish Draught studbook and upon passing inspection are upgraded to either Class 1 or Class 2 depending on whether they are deemed to have met the breed standard. Horses that have failed a veterinary inspection are designated Class 3. In 2024, HSI updated the studbook rules to enable certain mares, who have been deemed as being descendant from rare or threatened blood lines, to automatically attain Class 1 upon presentation for linear profiling at an inspection.

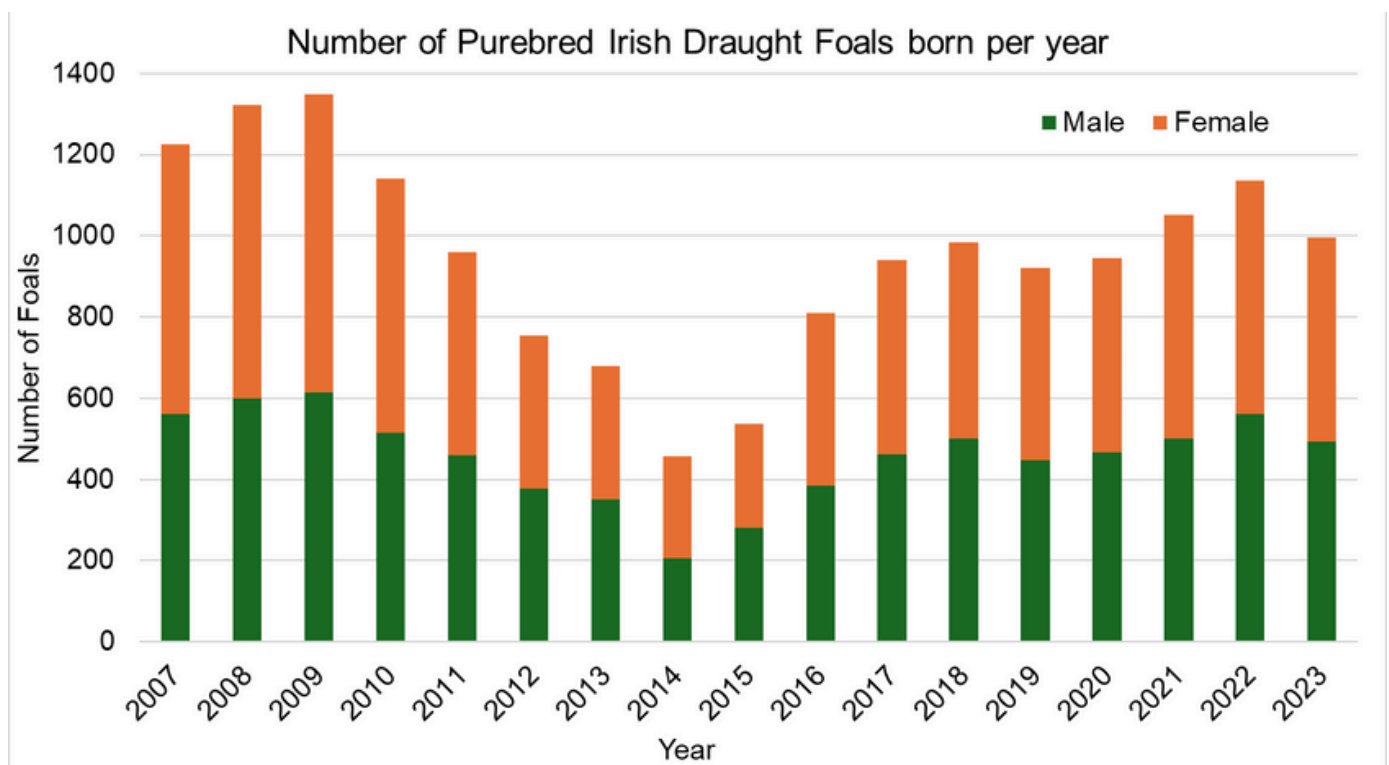
This report was commissioned after this rule change to assess the genetic diversity of Irish Draught horses in Ireland and to look at the trends over time within the breed. This report outlines the genetic diversity of the Irish Draught in terms of the overall population statistics and the trends in inbreeding, pedigree completeness, and kinship. All ID stallions that have produced at least one purebred ID foal since 2019 have been assessed for these attributes to enable breeders to implement this information in their future breeding decisions.





# Population Statistics

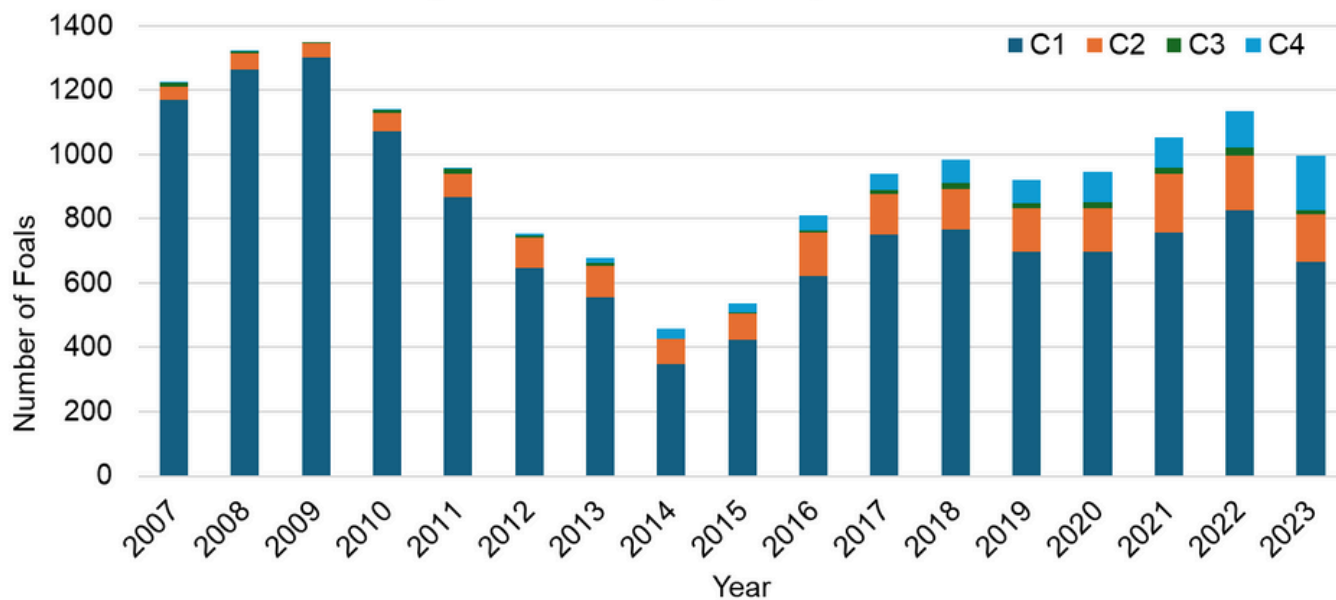
The number of Irish Draught births peaked in 2009 with 1,348 ID foals born and then dipped to a low of 458 foals in 2014. The decrease in foals born over this period is assumed to be due to the economic recession that Ireland was experiencing at this time. The numbers of foals born per year have nearly recovered to pre-recession levels with over 1,000 ID foals born per year in 2021 and 2022. The number of foals born in 2023 is currently just below 1,000 but may increase due to late registration of some horses.



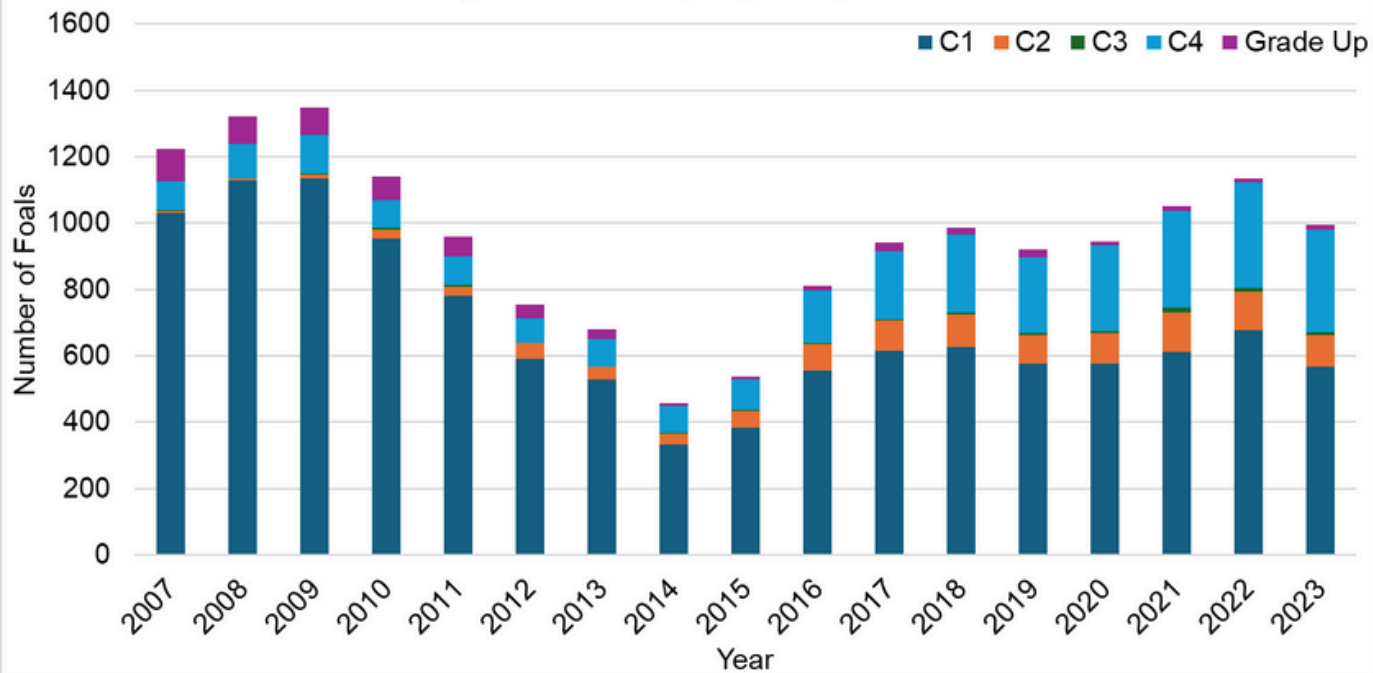
There has been a steady and significant increase in the breeding of uninspected stallions and mares over the last number of years. In 2023, the number of foals sired by Class 4 mares and stallions was at an all time high with 170 foals sired by Class 4 stallions and 306 foals out of Class 4 mares. In contrast, in 2009, the year that the highest number of ID foals were born, not one foal was by a Class 4 stallion and only 115 Class 4 mares produced a foal. The number of ID foals by Class 3 mares and stallions has also generally increased over the years.



Irish Draught foals born per year by class of stallion

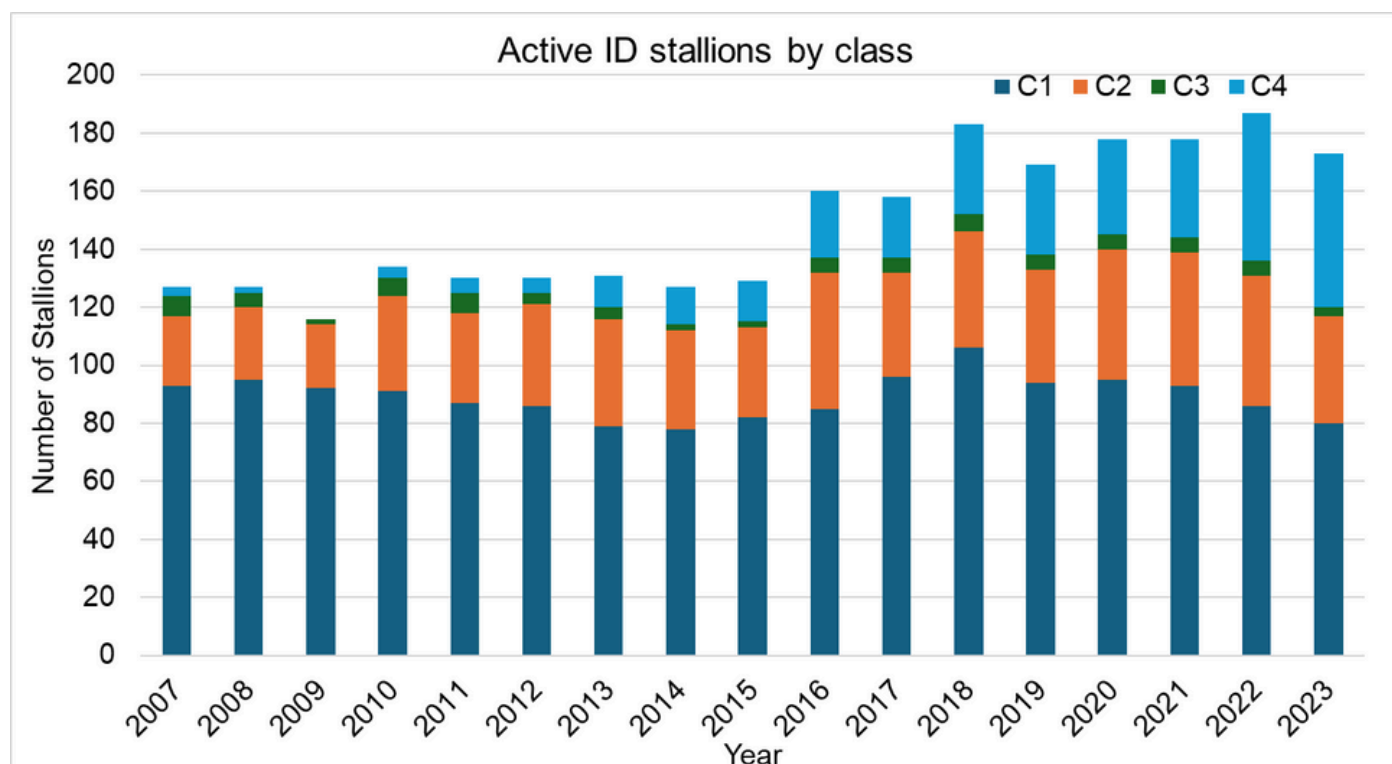


Irish Draught foals born per year by class of mare





The number of ID stallions producing purebred ID foals has generally increased over the last 15 years. In 2009, there were only 116 stallions that sired an ID foal. This increased to a high of 187 stallions in 2022. The figure below shows the number of ID stallions that produced a purebred ID foal in a particular year and the classification of these stallions. In 2023, The number of Class 4 stallions (53) that sired a foal surpassed the number of Class 2 stallions (37) for the first time.



As the number of active stallions per year is increasing, the number of progeny per sire is steadily decreasing. The average number of progeny per sire in 2009 was 11.62 foals (standard deviation (SD) 15.11) with a number of stallions having only sired one foal and one stallion siring 123 foals in that year alone. In 2023, the average number of progeny per sire was 5.76 (SD 6.09) and the maximum number of progeny from a single sire was 33.





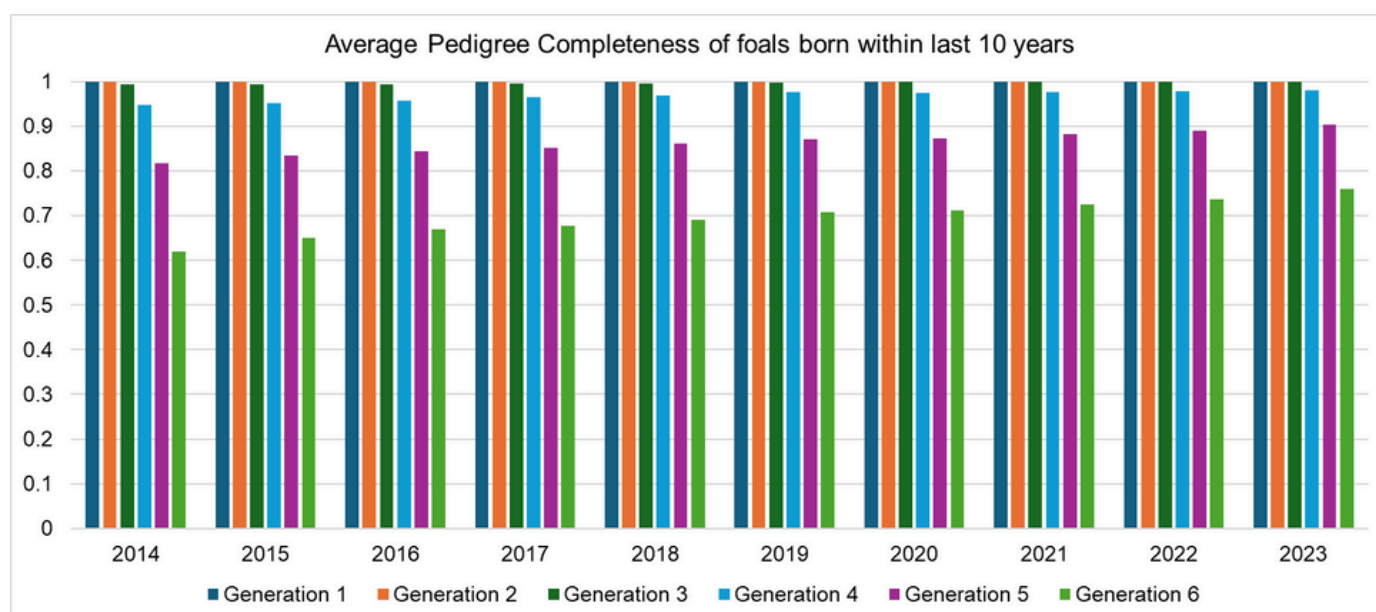
**Table 1. The number of ID stallions producing a foal per year with the average, minimum and maximum number of progeny per ID stallion within year**

| Year | Number of Stallions | Average | Standard Deviation | Minimum | Maximum |
|------|---------------------|---------|--------------------|---------|---------|
| 2007 | 127                 | 9.65    | 12.52              | 1       | 90      |
| 2008 | 127                 | 10.42   | 15.38              | 1       | 142     |
| 2009 | 116                 | 11.62   | 15.11              | 1       | 123     |
| 2010 | 134                 | 8.51    | 10.96              | 1       | 74      |
| 2011 | 130                 | 7.38    | 8.03               | 1       | 40      |
| 2012 | 130                 | 5.80    | 5.56               | 1       | 30      |
| 2013 | 131                 | 5.19    | 5.20               | 1       | 29      |
| 2014 | 127                 | 3.61    | 3.21               | 1       | 14      |
| 2015 | 129                 | 4.16    | 4.10               | 1       | 26      |
| 2016 | 160                 | 5.07    | 5.73               | 1       | 32      |
| 2017 | 158                 | 5.96    | 5.98               | 1       | 27      |
| 2018 | 183                 | 5.38    | 5.06               | 1       | 25      |
| 2019 | 169                 | 5.44    | 4.85               | 1       | 22      |
| 2020 | 178                 | 5.31    | 5.07               | 1       | 27      |
| 2021 | 178                 | 5.91    | 6.02               | 1       | 37      |
| 2022 | 187                 | 6.07    | 6.33               | 1       | 28      |
| 2023 | 173                 | 5.76    | 6.09               | 1       | 33      |



# Pedigree Completeness

In 2005, an Interim Report on the Development of a Breed Preservation Plan for the Irish Draught Horse was written by Francis Kearney of the Irish Cattle Breeding Federation. Within this report, a pedigree completeness index (PCI) at the 3rd generation was calculated for every stallion. The PCI is calculated relative to animals with 3 generations of complete pedigree required. For example, a PCI of 1 at Generation 3, where an animal has 8 ancestors (great-grandparents) means all 8 ancestors are recorded, a PCI of 0.875 at generation 3 means one ancestor is missing, and a PCI of 0.75 at generation 3 means two ancestors are missing, and so on. Kearney (2005) calculated that the average PCI at generation 3 of active ID stallions in Ireland was 0.80. In the near 20 years that have passed since this statistic was published, the average PCI at generation 3 of active ID stallions in Ireland is now 0.97. In fact, 92% of ID foals born in the last 10 years have a PCI of 1 at generation 3.



The PCI is important when assessing the quality of the pedigree information of an animal and is an important statistic to evaluate alongside the pedigree inbreeding and relatedness of an animal as it enables a more thorough evaluation of an animal's pedigree. As the figure above shows, the PCI at all generations is increasing every year. In 2023, for the first year ever, every purebred ID foal born had all 8 great-grandparents recorded.



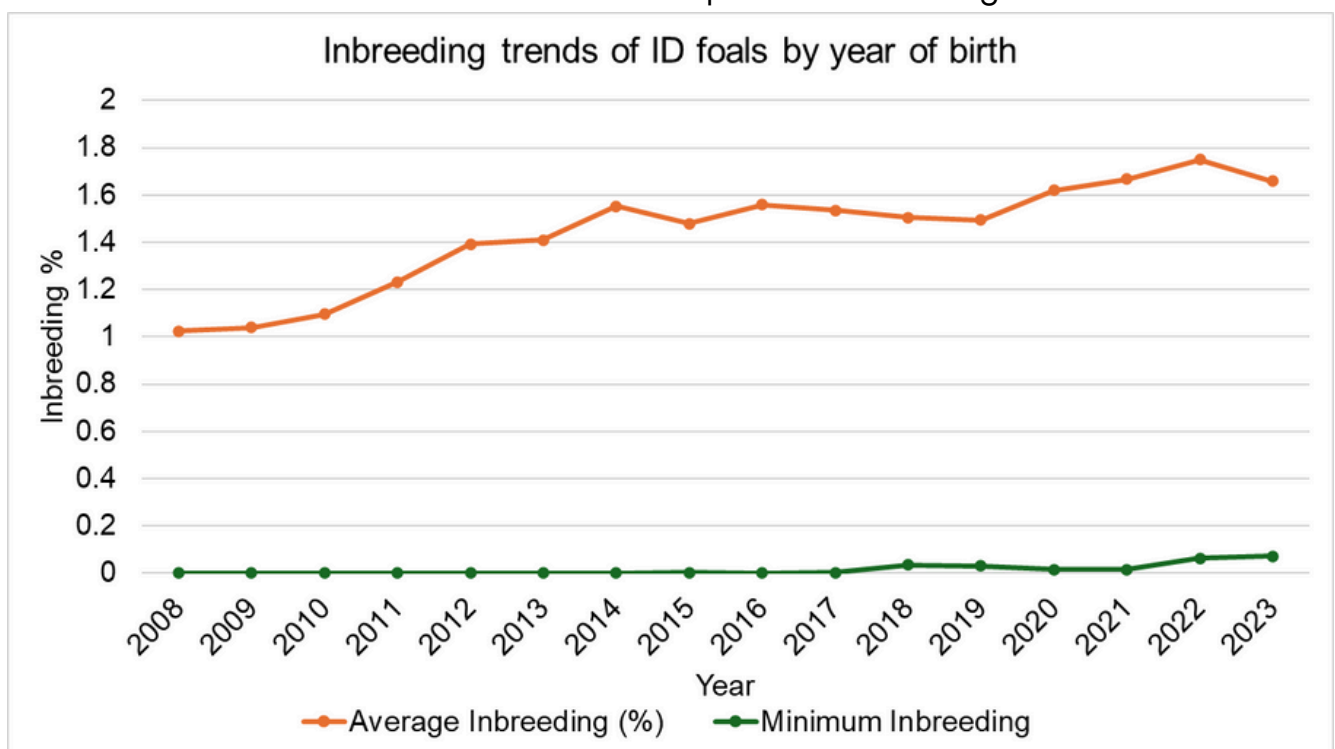
# Inbreeding

Inbreeding, also known as linebreeding, is the production of an offspring from the breeding of closely related individuals. While inbreeding can make it easier to predict what traits will be passed on to the offspring, it also makes it more likely that the offspring will inherit negative characteristics including certain health defects and diseases. When inbreeding occurs within a closed studbook, it speeds up the loss of genetic diversity within the population. However, within a closed studbook it is almost impossible to avoid inbreeding completely so a low level of inbreeding (<6.25%) is often seen as acceptable in livestock breeds.

The inbreeding coefficient is the measurement of the degree of inbreeding and is usually given as a percentage. Typical inbreeding percentages, assuming no previous inbreeding between any parents, are as follows:

- Sire/daughter or Dam/son mating → 25%
- Full sibling mating → 25%
- Half sibling mating → 12.5%
- Grandsire/granddaughter or granddam/grandson mating → 12.5%
- Uncle/niece or aunt/nephew (aunt/uncle and parent are full siblings) → 12.5%
- Parents have a common grandsire/granddam (First Cousins) → 6.25%
- Parents have a common great-grandsire/great-granddam → 3.125%

Average inbreeding has been slowly increasing in the Irish Draught Population over time but the average inbreeding level in foals born per year has never been higher than 1.75%. This is much lower than the acceptable inbreeding level of 6.25%





Since 2017, no purebred ID foal has been born with an inbreeding coefficient of 0. The least inbred foal born in 2023 had an inbreeding coefficient of 0.07%. The maximum inbreeding coefficient observed in an ID foal since 2007 was a foal born in 2020 with an inbreeding coefficient of 28.61% where a mare was mated back to her sire.

**Table 2. The average inbreeding coefficient of purebred ID foals within year with the standard deviation of the average, and the minimum and maximum observed inbreeding coefficients per year.**

| Year | Average (%) | Standard Deviation | Minimum (%) | Maximum (%) |
|------|-------------|--------------------|-------------|-------------|
| 2007 | 1.01        | 1.14               | 0.00        | 13.03       |
| 2008 | 1.02        | 1.09               | 0.00        | 13.03       |
| 2009 | 1.04        | 1.05               | 0.00        | 7.92        |
| 2010 | 1.09        | 1.11               | 0.00        | 12.55       |
| 2011 | 1.23        | 1.22               | 0.00        | 12.95       |
| 2012 | 1.39        | 1.41               | 0.00        | 13.69       |
| 2013 | 1.41        | 1.65               | 0.00        | 25.20       |
| 2014 | 1.55        | 1.65               | 0.00        | 13.69       |
| 2015 | 1.48        | 1.51               | 0.00        | 13.11       |
| 2016 | 1.56        | 1.44               | 0.00        | 14.01       |
| 2017 | 1.54        | 1.34               | 0.00        | 13.69       |
| 2018 | 1.51        | 1.30               | 0.04        | 14.12       |
| 2019 | 1.49        | 1.11               | 0.03        | 9.00        |
| 2020 | 1.62        | 1.53               | 0.02        | 27.79       |
| 2021 | 1.67        | 1.40               | 0.02        | 14.66       |
| 2022 | 1.75        | 1.85               | 0.06        | 28.61       |
| 2023 | 1.66        | 1.08               | 0.07        | 7.92        |



# Kinship

In genetic terms, the coefficient of kinship is a measure of relatedness, defined as the probability that a pair of randomly sampled homologous alleles are identical by descent. Simply put, it is the probability that two individuals with the same alleles at a particular location in the genome received these alleles from the same ancestor. Even simpler, it is half the coefficient of relationship between two individuals.

**Table 3. Common relationships between individuals and their subsequent relationship and kinship coefficients**

| Relationship to:                                     | Relationship Coefficient | Kinship Coefficient |
|------------------------------------------------------|--------------------------|---------------------|
| Individual-self                                      | 1                        | 1/2                 |
| mother / father / daughter / son                     | 1/2                      | 1/4                 |
| full sister / full brother                           | 1/2                      | 1/4                 |
| half-sister / half-brother                           | 1/4                      | 1/8                 |
| grandmother / grandfather / granddaughter / grandson | 1/4                      | 1/8                 |
| first cousin                                         | 1/8                      | 1/16                |
| aunt / uncle / niece / nephew                        | 1/4                      | 1/8                 |

In conservation genetics, the mean kinship is an important tool for monitoring and maintaining genetic diversity. The mean kinship is the average kinship between an individual and all other individuals in the reference population. This means that mean kinship of a specific animal changes over time as a population changes. A low mean kinship value indicates an animal is less related to the rest of the animals in the population while a high value indicates an animal is more closely to the rest of the animals. The previously defined reference population for calculating mean kinship for ID stallions includes all ID mares that have bred a foal in the previous 5 years and all ID fillies up to age 4. Therefore, the mean kinship of an ID stallion reflects the average relationship between that stallion and the active ID mare population.

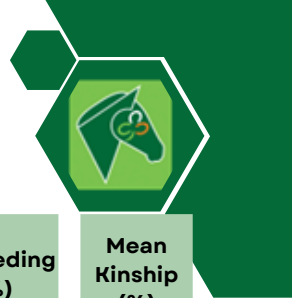


# Stallions

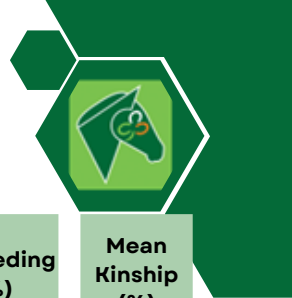
A total of 285 ID stallions have had at least 1 purebred ID foal in the last 5 years. These stallions have been defined as the “Active” Stallion population and each has been assessed for their genetic diversity, including their inbreeding, mean kinship, pedigree completeness, and Thoroughbred percentage. These statistics are outlined in the below table.

| IHR number | Name                   | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 20312941   | BALTYDANIEL SEAN BUI   | C4    | 2017 | 6                               | 0.69       | 19.53            | 3.15           | 0.73             |
| 4102825    | YOUNG COOLEHANE        | C2    | 2004 | 18                              | 0.38       | 12.50            | 0.00           | 0.79             |
| 5377191    | BALTYDANIEL GOLDEN BOY | C1    | 2011 | 32                              | 0.81       | 17.97            | 2.03           | 0.81             |
| 10061125   | SI GAOITHE             | C4    | 2010 | 18                              | 0.88       | 4.69             | 0.20           | 0.81             |
| 4512153    | MIZEN GOLD             | C2    | 2003 | 23                              | 0.75       | 9.38             | 0.05           | 0.87             |
| 3222264    | HUNTINGFIELD SUNNY C   | C1    | 2004 | 25                              | 0.75       | 8.20             | 0.48           | 0.88             |
| 4252066    | BELLAMONT              | C2    | 2003 | 16                              | 0.56       | 3.13             | 0.98           | 0.94             |
| 5577387    | BALTYDANIEL ARTHUR     | C4    | 2012 | 21                              | 0.94       | 1.56             | 0.01           | 0.97             |
| 2865067    | GREY GRANITE           | C3    | 2000 | 14                              | 0.50       | 0.00             | 1.66           | 1.02             |
| 5239972    | CLONEYHEA PADDY        | C1    | 2009 | 22                              | 0.81       | 28.52            | 0.07           | 1.05             |
| 20281387   | THE DUKE OF BELLAMONT  | C4    | 2017 | 1                               | 0.94       | 2.54             | 0.76           | 1.08             |
| 2541332    | MOUNTAIN TRIUMPH       | C3    | 1997 | 22                              | 0.56       | 6.25             | 0.39           | 1.15             |
| 2300795    | LUKE SKYWALKER         | C1    | 1994 | 13                              | 0.69       | 15.63            | 0.39           | 1.17             |
| 4554617    | TREANLAUR ROCKY        | C2    | 2006 | 8                               | 0.88       | 20.31            | 0.12           | 1.19             |
| 3285405    | SONRISE GENESIS        | C1    | 2008 | 59                              | 0.88       | 15.63            | 2.27           | 1.20             |
| 10565271   | CLOUDSPLITTER          | C4    | 2011 | 3                               | 0.75       | 6.25             | 0.00           | 1.20             |
| 7031124    | BALLINEEN IT'S WILLIAM | C1    | 2008 | 7                               | 0.94       | 4.10             | 1.79           | 1.22             |
| 4719583    | LORE                   | C4    | 2007 | 5                               | 0.81       | 12.90            | 0.02           | 1.23             |

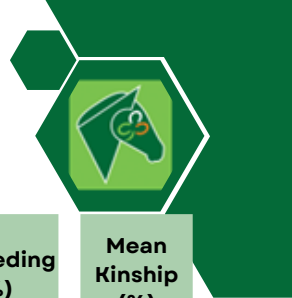




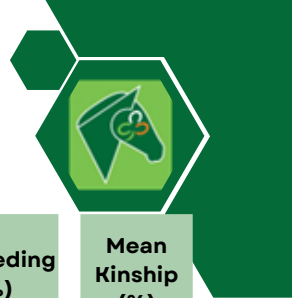
| IHR number | Name                        | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|-----------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 4287207    | COOLOO CREST                | C2    | 2004 | 5                               | 0.94       | 19.53            | 0.61           | 1.23             |
| 4708704    | KILTYBANE NALDO             | C4    | 2007 | 15                              | 0.75       | 18.75            | 0.00           | 1.25             |
| 10438268   | DYLASAU CAIO GWYDDELIG      | C4    | 2016 | 3                               | 0.88       | 12.11            | 0.17           | 1.26             |
| 5538895    | CLONEYHEA SPELLBOUND        | C1    | 2012 | 26                              | 0.88       | 23.06            | 0.18           | 1.26             |
| 5619177    | CAPPA AMADEUS               | C1    | 2013 | 24                              | 1.00       | 14.45            | 0.27           | 1.32             |
| 4480400    | TRUMPS WARRIOR              | C2    | 2006 | 8                               | 0.81       | 15.63            | 0.12           | 1.38             |
| 5493043    | SHEANS CLOVER BOY           | C4    | 2012 | 13                              | 0.88       | 21.88            | 0.31           | 1.38             |
| 5650858    | CALLOWS COMET GOLD          | C2    | 2012 | 10                              | 0.75       | 17.19            | 1.17           | 1.39             |
| 2724301    | PURPLE LAD                  | C2    | 2000 | 17                              | 0.75       | 6.25             | 0.78           | 1.39             |
| 10101116   | TOUCH OF THE EMPEROR        | C2    | 2015 | 24                              | 1.00       | 11.13            | 0.62           | 1.40             |
| 4647700    | GORTAVRANNER STONE          | C4    | 2006 | 1                               | 0.69       | 1.56             | 0.79           | 1.40             |
| 20413354   | WRS DUN AND DUSTED          | C4    | 2018 | 3                               | 1.00       | 12.70            | 0.44           | 1.40             |
| 2105071    | SIR STORMY BREEZE           | C1    | 1992 | 2                               | 0.56       | 18.75            | 0.40           | 1.40             |
| 4035886    | RAKISH RI                   | C2    | 2002 | 16                              | 0.75       | 3.13             | 0.23           | 1.45             |
| 2776652    | PENMERRYLS RHYTHM AND BLUES | C1    | 1998 | 11                              | 0.81       | 11.72            | 3.74           | 1.46             |
| 2571522    | MOUNTPELIER SEAVIEW         | C3    | 1998 | 2                               | 0.81       | 10.94            | 0.25           | 1.46             |
| 10086691   | MAYDEAN ALMOST BLUE         | C4    | 2004 | 2                               | 0.88       | 5.08             | 4.10           | 1.47             |
| 3285410    | HARKAWAY LIONHAWK           | C1    | 2001 | 9                               | 0.94       | 10.16            | 2.23           | 1.49             |
| 4116647    | DIREEN WARRIOR              | C2    | 2003 | 1                               | 0.94       | 4.69             | 0.24           | 1.49             |
| 2579233    | BALLYHOURA BREEZE           | C2    | 1995 | 2                               | 0.69       | 6.30             | 0.02           | 1.50             |
| 20174625   | LONGWOOD DUNBELIEVABLE      | C2    | 2016 | 56                              | 1.00       | 6.45             | 0.69           | 1.51             |
| 4305162    | HUNTINGFIELD RULER          | C1    | 2004 | 20                              | 0.75       | 4.69             | 1.76           | 1.51             |
| 5019758    | TURNERSTOWN BREEZE          | C4    | 2009 | 5                               | 0.88       | 14.06            | 0.05           | 1.51             |
| 2374026    | FINTAN HIMSELF              | C1    | 1994 | 25                              | 0.81       | 6.25             | 0.40           | 1.52             |
| 2711135    | LOCK KEY                    | C2    | 2000 | 21                              | 0.88       | 19.53            | 0.26           | 1.53             |
| 2571522    | MOUNTPELIER SEAVIEW         | C3    | 1998 | 2                               | 0.81       | 10.94            | 0.25           | 1.46             |



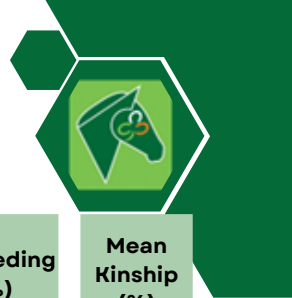
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|------------|----------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 20179081   | GRAND MASTER JACK          | C4    | 2016 | 1                               | 1.00       | 12.70            | 0.89           | 1.53             |
| 20300125   | CARRABEG GLENGARRIFF       | C1    | 2017 | 19                              | 0.94       | 4.69             | 1.03           | 1.54             |
| 5741804    | LOUGHKEELAND LEGEND        | C2    | 2015 | 1                               | 0.88       | 24.61            | 0.89           | 1.55             |
| 20201541   | LOUGHKEELAND SUNSET        | C2    | 2016 | 1                               | 0.88       | 24.61            | 0.89           | 1.55             |
| 5284355    | MILLHOLLOW STROLLER        | C1    | 2009 | 7                               | 1.00       | 10.94            | 0.42           | 1.56             |
| 4905897    | RAJAH CLOVER               | C3    | 2008 | 4                               | 1.00       | 17.97            | 0.17           | 1.56             |
| 20552725   | DUNBEGGAN DEANOS FLIGHT    | C4    | 2020 | 1                               | 1.00       | 7.32             | 0.48           | 1.57             |
| 4454623    | REBEL BALLAD               | C2    | 2005 | 1                               | 0.81       | 18.75            | 0.06           | 1.58             |
| 5968636    | CLONINCURRAGH ZEUS         | C4    | 2015 | 1                               | 1.00       | 2.34             | 1.45           | 1.58             |
| 2318471    | ROCKRIMMON SILVER DIAMOND  | C1    | 1994 | 2                               | 0.94       | 20.31            | 0.00           | 1.58             |
| 5192183    | ROADSIDE TRUE BLUE         | C2    | 2009 | 34                              | 0.81       | 5.47             | 0.71           | 1.58             |
| 20343496   | MOYRHEE STAR               | C4    | 2018 | 6                               | 1.00       | 8.40             | 0.79           | 1.59             |
| 4746740    | HILLVIEWFARM SUPERSTAR     | C1    | 2002 | 21                              | 0.75       | 12.50            | 0.13           | 1.59             |
| 5105092    | WRS ELVIS                  | C4    | 2009 | 10                              | 0.94       | 20.31            | 0.07           | 1.61             |
| 1848844    | TOUCH OF THE BLUES         | C1    | 1987 | 1                               | 0.88       | 10.94            | 0.11           | 1.61             |
| 2482857    | ALLYS BRIDGE               | C1    | 1996 | 4                               | 0.94       | 28.13            | 0.10           | 1.61             |
| 5228556    | CLOONACAUNEEN GRANDPA      | C1    | 2009 | 96                              | 0.81       | 26.56            | 0.21           | 1.62             |
| 20537726   | GORT SPELLBOUND            | C4    | 2020 | 4                               | 1.00       | 20.90            | 0.63           | 1.62             |
| 4465134    | MASTER RIVIE               | C2    | 2005 | 25                              | 0.88       | 15.63            | 0.32           | 1.62             |
| 40266      | MOUNTAIN PEARL             | C1    | 1989 | 2                               | 0.19       | 0.00             | 0.00           | 1.63             |
| 20463885   | BALTYDANIEL PURPLE BEN     | C2    | 2018 | 1                               | 0.88       | 2.73             | 0.48           | 1.64             |
| 5886787    | BALTYDANIEL FOGGY DEW      | C4    | 2014 | 4                               | 1.00       | 17.19            | 0.13           | 1.64             |
| 20142577   | BREEDA HILL                | C4    | 2018 | 5                               | 0.94       | 22.66            | 0.69           | 1.66             |
| 4697473    | BALLY VESTA SILVER DIAMOND | C1    | 2007 | 1                               | 0.88       | 12.50            | 0.80           | 1.66             |
| 10216802   | HOMESTON REBEL             | C4    | 2017 | 3                               | 0.94       | 8.40             | 1.28           | 1.67             |
| 2737197    | TOGHER LAD                 | C3    | 2000 | 12                              | 0.75       | 9.38             | 0.88           | 1.68             |



| IHR number | Name                      | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|---------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 4366060    | BELLEWS MATE              | C2    | 2005 | 7                               | 0.75       | 9.38             | 0.61           | 1.70             |
| 20184278   | KILLCOTTON JIM            | C4    | 2016 | 1                               | 1.00       | 13.09            | 0.84           | 1.70             |
| 20275038   | GORT TIM                  | C4    | 2017 | 3                               | 0.81       | 10.16            | 0.89           | 1.71             |
| 4479971    | GRANIT HERO               | C2    | 2005 | 2                               | 0.88       | 3.13             | 0.41           | 1.71             |
| 5833568    | FOLLYGLEN GREY CLOUD      | C2    | 2014 | 13                              | 0.88       | 20.31            | 0.55           | 1.71             |
| 4355750    | CLEW BAY BOUNCER          | C1    | 2005 | 74                              | 0.69       | 3.13             | 0.95           | 1.72             |
| 6037181    | KILMOVEE LIONHAWK         | C2    | 2015 | 7                               | 0.88       | 11.33            | 0.16           | 1.72             |
| 4170807    | LISSYCREMIN CLASSIC IBANE | C2    | 2004 | 10                              | 0.88       | 11.72            | 0.12           | 1.73             |
| 20274555   | ERRIGAL BLUE DEAN         | C4    | 2018 | 1                               | 1.00       | 11.13            | 1.03           | 1.73             |
| 20245838   | WRS BABY GUINNESS         | C2    | 2017 | 10                              | 1.00       | 7.03             | 1.01           | 1.76             |
| 5375248    | LOUGHKEELAND ROWAN        | C2    | 2011 | 1                               | 0.88       | 13.67            | 0.52           | 1.77             |
| 4041471    | DRUMLANE BARNEY           | C2    | 2001 | 2                               | 0.69       | 14.06            | 0.47           | 1.78             |
| 4371323    | KNOCK MORRIS              | C3    | 2005 | 34                              | 0.94       | 11.33            | 0.15           | 1.79             |
| 5335768    | CAPPA EMPEROR             | C1    | 2010 | 15                              | 0.81       | 12.50            | 0.23           | 1.79             |
| 4444108    | TRUMP HERO                | C2    | 2006 | 1                               | 0.94       | 16.41            | 0.33           | 1.79             |
| 10255303   | RINGROVE PADDYS HERO      | C2    | 2018 | 1                               | 1.00       | 7.81             | 0.73           | 1.80             |
| 20453462   | ASHFIELD BOUNCER          | C2    | 2018 | 4                               | 1.00       | 10.55            | 0.90           | 1.80             |
| 20521400   | GORTRAVINS CLYDE          | C4    | 2020 | 4                               | 1.00       | 16.60            | 0.57           | 1.81             |
| 4407715    | GRALLAGH STAR             | C4    | 2006 | 9                               | 0.81       | 4.69             | 0.08           | 1.81             |
| 5771845    | WRS SUN RISE              | C1    | 2013 | 33                              | 0.94       | 23.83            | 0.58           | 1.82             |
| 10017866   | WELCOME GRANDPA           | C1    | 2013 | 25                              | 0.88       | 21.48            | 0.87           | 1.83             |
| 5377662    | CLOUGHILL CARLONE BLUES   | C2    | 2011 | 2                               | 0.94       | 15.63            | 0.35           | 1.83             |
| 20201526   | LOUGHKEELAND BENEDICT     | C1    | 2016 | 3                               | 1.00       | 26.37            | 0.38           | 1.83             |
| 20498715   | ALTONA ARTHUR BOUNCER     | C2    | 2019 | 6                               | 1.00       | 6.93             | 1.04           | 1.83             |
| 5655995    | ZEUS OF THE BLUES         | C1    | 2013 | 28                              | 0.94       | 15.63            | 0.35           | 1.85             |
| 4288410    | OFFALY CLOVER             | C1    | 2004 | 22                              | 0.81       | 16.41            | 0.84           | 1.85             |



| IHR number | Name                      | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|---------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 6016471    | JOHNS CREEVAGH            | C4    | 2014 | 13                              | 1.00       | 16.41            | 0.22           | 1.86             |
| 6005850    | LYSTERFIELD LIGHT         | C2    | 2014 | 1                               | 0.94       | 14.06            | 1.07           | 1.86             |
| 4660727    | LOUGHKEELAND YOUNG GEORGE | C4    | 2007 | 1                               | 0.94       | 15.63            | 1.07           | 1.86             |
| 20299025   | GLIDERS LAST              | C4    | 2009 | 9                               | 0.81       | 3.13             | 1.82           | 1.88             |
| 2731533    | ROCKRIMMON ROBUSTICUS     | C1    | 2000 | 37                              | 0.69       | 4.69             | 0.05           | 1.88             |
| 10110850   | TREMAYNE FINN MAC COOL    | C4    | 2015 | 2                               | 1.00       | 18.75            | 0.74           | 1.89             |
| 4305751    | LANSDOWN                  | C1    | 2005 | 9                               | 0.88       | 9.38             | 1.46           | 1.89             |
| 4046700    | KILLEA HILL VIEW          | C2    | 2001 | 8                               | 0.56       | 9.38             | 0.11           | 1.89             |
| 20277091   | SHANAGHAN HILL            | C4    | 2017 | 5                               | 0.81       | 7.42             | 0.68           | 1.89             |
| 4295876    | DEVILS PUNCHBOWL          | C2    | 2004 | 8                               | 0.75       | 9.38             | 0.39           | 1.90             |
| 2431943    | SUPREME GINGER            | C1    | 1995 | 5                               | 0.56       | 34.38            | 0.05           | 1.90             |
| 4448330    | KING ALTON                | C1    | 2005 | 45                              | 0.88       | 11.72            | 0.69           | 1.91             |
| 5973587    | LIOSDERG SILVER PRIDE     | C1    | 2012 | 23                              | 1.00       | 7.42             | 0.20           | 1.91             |
| 20311791   | LONGWOOD MOUNTAIN DEW     | C1    | 2017 | 20                              | 0.75       | 6.64             | 1.02           | 1.91             |
| 4167461    | CAPPA COCHISE             | C1    | 2003 | 9                               | 0.63       | 20.31            | 0.04           | 1.91             |
| 4514338    | KING HENRYS PURPLE REIGN  | C4    | 2006 | 4                               | 0.75       | 20.31            | 0.19           | 1.92             |
| 20424745   | DRUMEINEIGH LAD           | C4    | 2019 | 2                               | 1.00       | 11.91            | 1.34           | 1.93             |
| 5222872    | BALTYDANIEL SILVER FLIGHT | C4    | 2009 | 22                              | 0.88       | 12.50            | 0.12           | 1.93             |
| 5370412    | BLACK HERO                | C2    | 2011 | 30                              | 0.75       | 17.97            | 0.39           | 1.93             |
| 5012378    | J VIANNEY                 | C4    | 2008 | 3                               | 1.00       | 12.50            | 0.45           | 1.93             |
| 5817756    | THE BACHELOR              | C1    | 2014 | 69                              | 0.88       | 13.28            | 1.59           | 1.94             |
| 4937215    | OAKPORT STANLEY           | C4    | 2007 | 1                               | 0.94       | 10.94            | 0.22           | 1.94             |
| 4350938    | COILLDARACH SCIROCCO      | RIDGB | 2006 | 65                              | 0.88       | 10.94            | 0.76           | 1.95             |
| 4475941    | DERRYNAGARRA PROPHET      | C2    | 2006 | 1                               | 0.81       | 20.31            | 3.43           | 1.95             |
| 3285385    | LIONWOOD KINSALES LAD     | C1    | 2004 | 34                              | 0.88       | 6.25             | 0.33           | 1.95             |



| IHR number | Name                       | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|----------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 10350788   | COOLFIN GENTLEMAN          | C4    | 2020 | 2                               | 0.94       | 11.33            | 1.37           | 1.96             |
| 4178413    | GRANDPAS DIAMOND           | C1    | 2002 | 22                              | 0.88       | 24.22            | 0.12           | 1.96             |
| 2457422    | COOLCRONAN WOOD            | C1    | 1996 | 11                              | 0.75       | 14.84            | 0.30           | 1.97             |
| 3181868    | EPONASTABLES UIBH FHAILI   | C1    | 2009 | 21                              | 1.00       | 10.16            | 1.89           | 1.97             |
| 4370383    | PURPLE SON                 | C4    | 2006 | 3                               | 0.81       | 9.38             | 1.69           | 1.97             |
| 5913926    | SANFORD AND SON            | C4    | 2015 | 1                               | 1.00       | 12.89            | 0.64           | 1.98             |
| 20262015   | GLENVEAGH GOLDEN EAGLE     | C4    | 2017 | 1                               | 0.94       | 25.78            | 0.90           | 1.98             |
| 20650656   | PRINCE SHENANDOAH          | C2    | 2019 | 1                               | 1.00       | 16.41            | 1.24           | 1.98             |
| 20382507   | BALTYDANIEL WHITE HEATHER  | C1    | 2018 | 3                               | 1.00       | 8.20             | 0.65           | 1.98             |
| 5855275    | WINDGAP RELIANCE           | C1    | 2014 | 24                              | 0.88       | 8.59             | 0.62           | 1.98             |
| 4385987    | DUNBEGGAN GREY MIST        | C1    | 2005 | 104                             | 0.69       | 17.19            | 0.10           | 1.99             |
| 4606088    | QUITE PRINCE               | C4    | 2006 | 4                               | 1.00       | 11.72            | 1.06           | 1.99             |
| 5836100    | O BRIENS HILL              | C4    | 2018 | 1                               | 0.94       | 24.61            | 0.15           | 2.00             |
| 4870115    | DARRAGH MOYLOUGH VISION    | C1    | 2008 | 12                              | 0.94       | 7.81             | 0.33           | 2.00             |
| 20514158   | BELLEWS COLLA              | C4    | 2020 | 1                               | 1.00       | 9.38             | 0.69           | 2.01             |
| 6023392    | GRANDPAS REBEL             | C1    | 2014 | 37                              | 0.94       | 14.84            | 0.54           | 2.01             |
| 5885537    | WRS SUN SHINE              | C1    | 2014 | 78                              | 1.00       | 16.02            | 3.60           | 2.01             |
| 4118765    | STEEPED IN LUCK            | C1    | 2002 | 2                               | 0.94       | 11.72            | 0.82           | 2.02             |
| 20095781   | DENNISTOWN PRINCE OF PRIDE | C2    | 2016 | 4                               | 1.00       | 14.06            | 1.88           | 2.02             |
| 20465727   | LOCK IN                    | C4    | 2019 | 3                               | 1.00       | 21.29            | 1.97           | 2.03             |
| 4140267    | CLOONEEN SEA KING          | C2    | 2004 | 20                              | 0.63       | 15.63            | 0.06           | 2.03             |
| 5464472    | THE ROCK                   | C4    | 2010 | 3                               | 0.88       | 18.75            | 0.11           | 2.03             |
| 3201281    | MOORESFORT FAST SILVER     | C4    | 2010 | 2                               | 0.88       | 26.56            | 0.10           | 2.04             |
| 4913251    | BALTYDANIEL SILVER HERO    | C4    | 2008 | 18                              | 0.88       | 8.59             | 1.79           | 2.04             |
| 5395751    | BALTYDANIEL ROMEO          | C1    | 2011 | 13                              | 0.88       | 8.59             | 1.79           | 2.04             |
| 20483002   | COOLDERRY SAMMY            | C4    | 2019 | 1                               | 0.88       | 17.97            | 1.08           | 2.05             |



| IHR number | Name                       | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|----------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 4597422    | MILLHOLLOW REAL MAC COY    | C1    | 2006 | 15                              | 0.94       | 4.69             | 1.66           | 2.05             |
| 20073900   | BALCORMO SIR DUN CLIFF     | C1    | 2018 | 7                               | 0.94       | 11.72            | 2.34           | 2.05             |
| 4171311    | SEAFINN LAD                | C4    | 2003 | 1                               | 0.81       | 26.56            | 0.55           | 2.07             |
| 2721994    | RAS NA RI                  | C3    | 2000 | 1                               | 0.75       | 7.03             | 0.04           | 2.07             |
| 20213103   | MIDNIGHT COWBOY            | C2    | 2017 | 4                               | 0.94       | 9.38             | 0.81           | 2.07             |
| 2513112    | POWERWOODS GLADIATOR       | C2    | 1997 | 6                               | 0.88       | 2.34             | 0.06           | 2.07             |
| 10267228   | ASSAGART ALL FOR ONE       | C4    | 2018 | 2                               | 1.00       | 8.01             | 0.70           | 2.07             |
| 5707032    | CASTLEVIEW INISFREE FARMER | C1    | 2013 | 26                              | 0.81       | 12.50            | 0.23           | 2.08             |
| 4452136    | LISLAP BENEDICT            | C2    | 2005 | 9                               | 0.81       | 28.13            | 0.90           | 2.09             |
| 4690591    | YOUNG ZIDANE               | C2    | 2007 | 48                              | 0.81       | 7.81             | 0.39           | 2.09             |
| 20536252   | BY THEBANN                 | C2    | 2019 | 2                               | 1.00       | 11.72            | 1.60           | 2.10             |
| 5076023    | DIAMOND OF DERRYMULLEN     | C4    | 2008 | 1                               | 1.00       | 12.50            | 1.51           | 2.10             |
| 20122888   | GWEEBARRAS DREAMTIME STAR  | C1    | 2016 | 28                              | 1.00       | 7.81             | 3.09           | 2.11             |
| 3263391    | KILMOVEE WHITE HERO        | C1    | 2011 | 54                              | 0.75       | 7.81             | 0.53           | 2.12             |
| 4402563    | RAHASANE DANDY             | C4    | 2005 | 7                               | 0.75       | 6.25             | 2.05           | 2.12             |
| 10202208   | MURRISK THE HOLY GRAIL     | C1    | 2017 | 5                               | 0.94       | 7.81             | 2.00           | 2.13             |
| 6022401    | HAYESTOWN MAJOR TOM        | C4    | 2014 | 2                               | 1.00       | 16.60            | 0.78           | 2.14             |
| 20494705   | RONNIES GENTLEMAN FARMER   | C4    | 2019 | 2                               | 0.94       | 11.13            | 0.51           | 2.14             |
| 4004580    | GLENEVEN REBEL             | C1    | 2001 | 30                              | 0.88       | 6.25             | 1.70           | 2.14             |
| 37702      | CRANNAGH HERO              | C1    | 1986 | 2                               | 0.56       | 3.13             | 0.00           | 2.15             |
| 3272191    | COLUMCILLE DIAMOND BOY     | C1    | 2012 | 15                              | 0.94       | 13.28            | 1.20           | 2.15             |
| 7029024    | GLENCORRAN DIAMOND         | C2    | 2010 | 12                              | 0.81       | 12.89            | 0.49           | 2.16             |
| 4126205    | REBEL MOUNTAIN             | C1    | 2003 | 35                              | 0.81       | 7.81             | 0.13           | 2.16             |
| 20343133   | COOM VIEW HIGHLANDER       | C2    | 2018 | 6                               | 1.00       | 16.89            | 0.99           | 2.16             |
| 5032853    | FADO FADO                  | C4    | 2007 | 1                               | 0.94       | 7.81             | 1.87           | 2.16             |
| 20309594   | CARRAIGSTUD JACK           | C1    | 2017 | 9                               | 1.00       | 8.40             | 0.52           | 2.16             |



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|------------|----------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 4937195    | EOLAS EMPEROR              | C2    | 2008 | 2                               | 0.94       | 5.08             | 1.89           | 2.17             |
| 20354812   | ROCKDALE KILKERLEYS LEGACY | C4    | 2018 | 7                               | 1.00       | 7.23             | 2.92           | 2.17             |
| 20468421   | MY BLUE PRINCE             | C2    | 2019 | 6                               | 1.00       | 13.87            | 1.80           | 2.17             |
| 20400513   | SHANVOHER DIAMOND          | C4    | 2018 | 4                               | 0.94       | 4.69             | 2.25           | 2.18             |
| 20311125   | LUGBOY FARMER              | C4    | 2017 | 2                               | 0.94       | 10.55            | 1.60           | 2.18             |
| 5841860    | CLOONACAUNEEN QUICK JACK   | C4    | 2014 | 1                               | 1.00       | 7.62             | 0.53           | 2.18             |
| 4358946    | LISATARA TOM               | C2    | 2005 | 12                              | 1.00       | 18.75            | 0.22           | 2.19             |
| 4480796    | REBEL FLAGMOUNT            | C1    | 2005 | 32                              | 0.81       | 10.94            | 0.51           | 2.19             |
| 20586886   | KILMURRAY HERO             | C2    | 2020 | 1                               | 0.94       | 12.50            | 2.31           | 2.19             |
| 20086832   | CASTLEGAR COOL GROVE       | C1    | 2016 | 16                              | 1.00       | 8.20             | 1.27           | 2.19             |
| 4583886    | LEIGHLIN EMPEROR           | C1    | 2006 | 13                              | 0.94       | 5.08             | 1.89           | 2.19             |
| 20399776   | SCIROCCO MATE              | C4    | 2018 | 4                               | 1.00       | 16.80            | 1.50           | 2.20             |
| 2620247    | FLAGMOUNT CLOVER DIAMOND   | C2    | 1996 | 4                               | 0.81       | 18.75            | 1.32           | 2.20             |
| 20252085   | CASTLEGAR COOL FIN         | C1    | 2017 | 11                              | 1.00       | 8.20             | 1.27           | 2.20             |
| 4371298    | MANOR WELCOME              | C2    | 2005 | 15                              | 0.94       | 10.16            | 2.38           | 2.20             |
| 4485177    | THE SWARTY HERO            | C1    | 2006 | 34                              | 0.75       | 12.50            | 0.49           | 2.20             |
| 3135593    | TORS GENTLEMAN FARMER      | C1    | 1998 | 99                              | 0.81       | 12.50            | 0.20           | 2.21             |
| 20347037   | GLENSMILL STAR BOUNCER     | C2    | 2018 | 3                               | 1.00       | 7.03             | 3.98           | 2.21             |
| 39276      | CREGGAN EMPEROR            | C1    | 1989 | 1                               | 0.56       | 0.00             | 0.00           | 2.21             |
| 5907666    | HOLLYPARK DIAMOND          | C1    | 2015 | 33                              | 1.00       | 8.20             | 1.27           | 2.22             |
| 6040268    | CAPPA SARSFIELD            | C1    | 2015 | 3                               | 1.00       | 13.67            | 1.62           | 2.23             |
| 5578087    | CORNAROYA ROMEO            | C4    | 2012 | 5                               | 1.00       | 13.67            | 1.62           | 2.23             |
| 20527315   | CARRICKCOTTAGE JETT        | C4    | 2017 | 2                               | 1.00       | 7.81             | 4.62           | 2.24             |
| 20242771   | ABBEYWARD PRINCE CHARLES   | C2    | 2017 | 16                              | 1.00       | 10.06            | 1.15           | 2.25             |
| 5557220    | LISATARA REVILO ONE        | C4    | 2012 | 2                               | 0.94       | 24.22            | 0.91           | 2.25             |
| 5169302    | KILTEALY SILVER            | C1    | 2009 | 4                               | 1.00       | 23.83            | 0.24           | 2.27             |

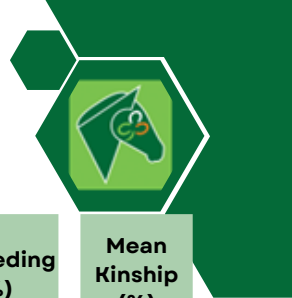




| IHR number | Name                    | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|-------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 10034667   | CAPPA DIANTHUS          | C1    | 2012 | 9                               | 1.00       | 8.98             | 3.53           | 2.28             |
| 5374119    | BALLYSAX HERO           | C4    | 2007 | 4                               | 0.94       | 10.94            | 1.69           | 2.28             |
| 20345898   | CASTLEGAR COOLOUGH      | C1    | 2018 | 48                              | 1.00       | 6.25             | 1.24           | 2.29             |
| 4296510    | KILLINICK BOUNCER       | C1    | 2004 | 18                              | 0.75       | 7.03             | 0.97           | 2.29             |
| 4365561    | GLANNTANA               | C2    | 2005 | 10                              | 1.00       | 4.69             | 0.72           | 2.29             |
| 4240951    | CASTLE CREST            | C1    | 2005 | 20                              | 0.81       | 8.98             | 0.10           | 2.29             |
| 4223218    | CASNOVA                 | C1    | 2007 | 14                              | 0.88       | 6.25             | 0.59           | 2.30             |
| 4346950    | KEALDEARRA KINGDOM      | C2    | 2005 | 7                               | 1.00       | 10.94            | 0.86           | 2.30             |
| 4057010    | CARRICKROCK CLOSE SHAVE | C1    | 2001 | 44                              | 0.75       | 7.81             | 1.60           | 2.30             |
| 20345692   | JJ COOL MIST            | C3    | 2018 | 9                               | 0.94       | 26.37            | 0.55           | 2.30             |
| 5621464    | KNOCKALEERY DANCER      | C1    | 2013 | 15                              | 0.94       | 12.11            | 1.36           | 2.30             |
| 5681590    | KILROOSKEY CASNOVA      | C4    | 2013 | 1                               | 1.00       | 9.38             | 3.63           | 2.30             |
| 10010383   | DJANGO UNCHAINED        | C4    | 2012 | 10                              | 0.88       | 12.50            | 0.16           | 2.30             |
| 4071551    | AVANTI AMOROUS ARCHIE   | RIDGB | 2001 | 3                               | 0.94       | 17.20            | 0.69           | 2.30             |
| 20010457   | WRS HANDSOME PADDY      | C4    | 2016 | 38                              | 0.94       | 8.40             | 1.50           | 2.30             |
| 5580297    | BLACK DANCER            | C2    | 2011 | 22                              | 1.00       | 15.63            | 1.70           | 2.32             |
| 3282256    | BENCROY SILVER          | C4    | 2012 | 1                               | 0.88       | 18.75            | 0.12           | 2.32             |
| 4363242    | DRISHANE DIAMOND        | C1    | 2005 | 40                              | 0.94       | 20.31            | 0.00           | 2.33             |
| 4313075    | SKIPPING GRANGE         | C2    | 2004 | 3                               | 0.88       | 10.94            | 4.33           | 2.33             |
| 20557348   | CAPPA CAPONE            | C1    | 2017 | 6                               | 1.00       | 15.33            | 0.83           | 2.33             |
| 20418944   | DERNAHATTEN VISION      | C1    | 2018 | 12                              | 1.00       | 14.65            | 2.00           | 2.34             |
| 3284633    | GORTFREE LAKESIDE LAD   | C1    | 2012 | 74                              | 0.81       | 13.28            | 0.91           | 2.34             |
| 5898664    | TOMMY SUPREME           | C4    | 2014 | 5                               | 1.00       | 16.50            | 6.23           | 2.35             |
| 5767095    | CASTLEGAR COOL MIST     | C1    | 2014 | 24                              | 1.00       | 8.20             | 1.31           | 2.35             |
| 4118311    | CARRABAWN GINGER        | C2    | 2003 | 3                               | 0.69       | 20.31            | 0.02           | 2.36             |
| 4836080    | CEIDE PRINCE            | C1    | 2008 | 49                              | 0.94       | 20.31            | 0.50           | 2.37             |



| IHR number | Name                      | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|---------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 10255027   | CLOGHEEN CAPTAIN JACK     | C1    | 2018 | 15                              | 0.88       | 14.45            | 1.98           | 2.38             |
| 5514084    | FARMHILL HIGHLANDER       | C1    | 2012 | 77                              | 1.00       | 11.91            | 0.98           | 2.39             |
| 1963945    | HUNTINGFIELD REBEL        | C1    | 1990 | 1                               | 0.81       | 6.25             | 0.00           | 2.39             |
| 4154813    | KEAMORE DIAMOND CLOVER    | C1    | 2003 | 32                              | 0.94       | 23.44            | 0.00           | 2.40             |
| 20048708   | MOYLROUGH SUPERNOVA       | C4    | 2015 | 1                               | 1.00       | 10.16            | 2.42           | 2.41             |
| 2736277    | GENTLE DIAMOND            | C1    | 1998 | 25                              | 0.94       | 12.50            | 0.18           | 2.41             |
| 5773781    | CARRICKCOTTAGE MOURINHO   | C4    | 2013 | 2                               | 0.94       | 10.94            | 1.90           | 2.41             |
| 5305085    | LISMULLEN ROYAL STAR      | C2    | 2010 | 5                               | 0.94       | 7.81             | 2.47           | 2.42             |
| 2667671    | WINDGAP BLUE              | C1    | 1999 | 15                              | 0.81       | 12.50            | 0.14           | 2.42             |
| 4103338    | MOLLYS BOY                | C2    | 2003 | 12                              | 0.81       | 6.64             | 0.49           | 2.42             |
| 5954431    | INISFREE THE IRON CROSS   | C1    | 2014 | 30                              | 0.94       | 8.59             | 0.88           | 2.43             |
| 5296763    | BEECHMORE SILVER CREST    | C1    | 2010 | 68                              | 0.88       | 23.83            | 1.19           | 2.44             |
| 5216244    | BALTYDANIEL SILVER FOX    | C4    | 2009 | 16                              | 0.81       | 17.19            | 3.18           | 2.44             |
| 5790695    | BARNAVIEW GROSVENORS STAR | C1    | 2014 | 5                               | 1.00       | 8.79             | 0.93           | 2.44             |
| 4764814    | CAPPA ARISTOCRAT          | C1    | 2011 | 55                              | 0.94       | 9.38             | 0.31           | 2.45             |
| 10326958   | SCRAPBOY                  | C1    | 2017 | 18                              | 0.94       | 13.28            | 1.97           | 2.48             |
| 5673064    | SCOTSBOROUGH PRINCE       | C2    | 2013 | 6                               | 1.00       | 9.38             | 7.78           | 2.50             |
| 7038671    | CARRICKCOTTAGE STAR       | C1    | 2007 | 96                              | 1.00       | 8.59             | 3.01           | 2.51             |
| 4628365    | WELCOME EMPEROR           | C1    | 2007 | 25                              | 0.94       | 7.81             | 1.81           | 2.52             |
| 5108370    | CARRABAWN CROSS           | C1    | 2008 | 40                              | 0.94       | 13.28            | 0.54           | 2.53             |
| 10144748   | SILVER ROBE               | C4    | 2016 | 1                               | 0.81       | 19.53            | 0.19           | 2.53             |
| 5606481    | KILLOUNTAIN CROSS         | C1    | 2013 | 70                              | 0.94       | 10.16            | 1.16           | 2.53             |
| 6023101    | PARKROE CAPPACHINO        | C4    | 2014 | 2                               | 0.94       | 14.84            | 0.69           | 2.55             |
| 20039237   | ARCHIE THE GREAT          | C1    | 2015 | 6                               | 1.00       | 13.24            | 0.36           | 2.55             |
| 4586671    | BALLYGARRETT CROSS        | C2    | 2006 | 1                               | 0.81       | 3.91             | 0.46           | 2.56             |
| 2124777    | FRANKS FANCY              | C2    | 1992 | 3                               | 0.81       | 8.59             | 0.10           | 2.56             |



| IHR number | Name                     | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|--------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 20168200   | BOUNCING DONARD          | C2    | 2017 | 25                              | 1.00       | 13.28            | 2.52           | 2.56             |
| 10211693   | GORTFREE CURIOUS GEORGE  | C2    | 2017 | 6                               | 1.00       | 20.31            | 1.05           | 2.57             |
| 20009661   | BALLYCURRIN CORRIB STAR  | C2    | 2015 | 8                               | 0.88       | 15.63            | 1.27           | 2.57             |
| 20200258   | MOYLOUGH SUPREMACY       | C1    | 2017 | 33                              | 1.00       | 9.77             | 1.81           | 2.57             |
| 5101957    | BENLOWCROSS              | C2    | 2008 | 13                              | 0.81       | 3.91             | 1.05           | 2.57             |
| 4021365    | KING OF MOURNE           | C1    | 2003 | 25                              | 1.00       | 9.38             | 1.87           | 2.59             |
| 4202441    | ECHO KING                | C1    | 2004 | 28                              | 0.81       | 25.78            | 0.10           | 2.60             |
| 4517027    | DUNSANDLE DIAMOND        | C1    | 2006 | 76                              | 1.00       | 15.23            | 0.28           | 2.61             |
| 4138775    | GORTFREE HERO            | C1    | 2002 | 93                              | 1.00       | 4.69             | 0.72           | 2.63             |
| 5106252    | CHARLES HERO             | C4    | 2008 | 1                               | 1.00       | 10.94            | 3.54           | 2.64             |
| 4023723    | YOUNG CARRABAWN          | C1    | 2001 | 65                              | 0.69       | 20.31            | 0.02           | 2.66             |
| 4001388    | HEIGH HO DUBH            | C1    | 2003 | 60                              | 0.81       | 25.78            | 0.10           | 2.66             |
| 5486816    | DS BALLAGH BOUNCER       | C1    | 2012 | 40                              | 1.00       | 7.03             | 0.55           | 2.66             |
| 5611601    | CARRIGFADA TROY          | C1    | 2013 | 3                               | 1.00       | 7.81             | 3.49           | 2.67             |
| 5778603    | MOYLOUGH LEGACY          | C1    | 2013 | 98                              | 1.00       | 9.77             | 1.81           | 2.67             |
| 4038317    | MOYLOUGH BOUNCER         | C1    | 2002 | 50                              | 0.75       | 4.69             | 2.42           | 2.68             |
| 20462700   | KING ELVIS I             | C1    | 2019 | 17                              | 0.88       | 15.53            | 3.35           | 2.69             |
| 4287710    | TRENDY GLIDER            | C2    | 2003 | 8                               | 0.94       | 7.81             | 0.68           | 2.69             |
| 5519260    | CLONCASTLE SILVER SQUIRE | C1    | 2012 | 85                              | 0.88       | 18.55            | 0.44           | 2.70             |
| 5517687    | GOLDSMITHCOUNTRY OLIVER  | C1    | 2012 | 71                              | 0.81       | 2.73             | 1.91           | 2.72             |
| 20286417   | ROSETOWN RAMBLER         | C1    | 2017 | 13                              | 0.88       | 22.07            | 1.94           | 2.73             |
| 5508428    | BANNVALLEY NAVILLUS      | C2    | 2012 | 15                              | 0.94       | 11.72            | 2.55           | 2.73             |
| 2944400    | CAPPA CASSANOVA          | C1    | 2006 | 61                              | 0.88       | 14.84            | 0.30           | 2.73             |
| 4933553    | BANNVALLEY SILVER DANCER | C2    | 2008 | 5                               | 0.88       | 18.36            | 2.81           | 2.77             |
| 2641202    | PRESCOTTS DIAMOND        | C1    | 1999 | 10                              | 0.81       | 7.03             | 0.51           | 2.78             |
| 20168200   | BOUNCING DONARD          | C2    | 2017 | 25                              | 1.00       | 13.28            | 2.52           | 2.56             |



| IHR number | Name                    | Class | YOB  | Number of ID Progeny since 2019 | PCI (GEN4) | Thoroughbred (%) | Inbreeding (%) | Mean Kinship (%) |
|------------|-------------------------|-------|------|---------------------------------|------------|------------------|----------------|------------------|
| 5134913    | INISFREE THE HOLY GRAIL | C1    | 2009 | 89                              | 0.69       | 10.94            | 0.27           | 2.78             |
| 4429177    | KING VINNY              | C2    | 2007 | 21                              | 0.94       | 6.25             | 1.81           | 2.79             |
| 5028434    | SCRAPMAN                | C1    | 2008 | 31                              | 0.94       | 14.06            | 0.20           | 2.80             |
| 40487      | FAST SILVER             | C1    | 1991 | 40                              | 0.75       | 25.00            | 0.00           | 2.80             |
| 5124111    | BALLYLARKIN SILVER      | C1    | 2010 | 9                               | 0.94       | 17.97            | 0.85           | 2.80             |
| 4146688    | SHENANDOAH PRINCE HOLLY | C1    | 2002 | 16                              | 0.69       | 5.47             | 1.06           | 2.87             |
| 29173      | KING ELVIS              | C1    | 1976 | 3                               | 0.50       | 12.50            | 0.00           | 3.15             |
| 4043570    | MOUNTAIN DIAMOND        | C1    | 2002 | 80                              | 0.81       | 3.91             | 2.27           | 3.16             |
| 39888      | CROSSTOWN DANCER        | C1    | 1990 | 6                               | 0.88       | 18.75            | 0.38           | 3.38             |



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