

The following is an estimation of the genetic defect carrier frequency, within the Herd Book Blanc-bleu Belge population:-

DEFECT CARRIER FREQUENCY

The following data relates to the date the frequency was assessed and it must be remembered that improvements in the level of frequency, since these dates, have reduced the carrier incidence.

It must also be remembered that each family, within the breed has a different carrier frequency, so data from farm to farm could change dramatically.

That said, the data below gives a rough indication: -

Defect	Assessed	Frequency
Congenital muscular dystonia type I	Assessed 2006	15%
Congenital muscular dystonia type II	Assessed 2007	6%
Crooked tail syndrome (first mutation)	Assessed 2008	25%
Proportionate dwarfism	Assessed 2009	28%
Hamartomas/brachycephaly	Assessed 2010	10%
Crooked tail syndrome (second mutation)	Assessed 2010	less than 1%
Arthrogryposis syndrome	Assessed 2012	less than 5%

Indirect tests (haplotype based typing):

Prolonged gestations	Assessed 2010	15%
-----------------------------	---------------	-----