



## ATTENTION: ALL OWNERS OF BORDER COLLIES ANKC SURVEY

### Ceroid Lipofucinosi s, Trapped Neutrophil Syndrome and Collie Eye Anomaly

This survey applies to any Member of a Canine Control affiliated with the ANKC who is the owner of a registered Border Collie. In the interests of the breed, please read this survey carefully and reply by completing the return slip below and send to the ANKC Administrator, P O Box 760, Fortitude Valley Qld, 4006 by 31 December 2009.

#### Proposal

The ANKC and the ANKC Canine Health Committee recommend that: -

The ANKC have resolved to conduct a Survey of all Border Collie owners recommending that:

- 1.1 Ceroid Lipofucinosi s be designated a controlled disease in the breed, requiring breeders to establish the DNA status of all breeding stock born after 1<sup>st</sup> January 2005 for Ceroid Lipofucinosi s by testing or by parentage.
- 1.2 Litter Registration Limitations should apply for litters born from 1 June 2010 as follows:
  - At least one parent of every litter must be DNA Normal for CL by testing or by parentage.
  - No CL DNA Affected animals are to be bred from.
  - Acceptable matings are CL DNA Normal/Normal or Normal/Carrier where both parents are born after 1.1.2005.
- 2.1 Trapped Neutrophil Syndrome be designated a controlled disease in the breed, requiring breeders to establish the DNA status of all breeding stock born after 1<sup>st</sup> January 2005 for Trapped Neutrophil Syndrome by testing or by parentage.
- 2.2 Litter Registration Limitations should apply for litters born from 1 June 2010 as follows:
  - At least one parent of every litter must be DNA Normal for TNS by testing or by parentage.
  - No TNS DNA Affected animals are to be bred from.
  - Acceptable matings are TNS DNA Normal/Normal or Normal/Carrier where both parents are born after 1.1.2005.
- 3.1 Collie Eye Anomaly be designated as a controlled condition in the breed, requiring breeders to establish the DNA status of all breeding stock born after 1<sup>st</sup> January 2005 for Collie Eye Anomaly by testing or by parentage.
- 3.2 Litter Registration Limitations should apply for litters born from 1 June 2010 as follows:
  - At least one parent of every litter must be DNA Normal for CEA by testing or by parentage.
  - Acceptable matings are CEA DNA Normal/Normal, Normal/Carrier or Normal/Affected where both parents are born after 1.1.2005.

If litter registration limitations are approved for each or all diseases, breeders of litters whelped on or after 1<sup>st</sup> June, 2010, will be required to comply as a prerequisite to registration of any litter. Any parent whelped before 1<sup>st</sup> January 2005 is excepted. Dogs must be positively identified by microchip, prior to being tested. The Genotype for each condition may be determined by DNA testing or by parentage. All progeny from a DNA Normal to Normal mating for each condition/disease, will be DNA normal. For CEA all progeny from a Normal to Affected mating will be DNA carriers. To be declared Normal by parentage for any of the three conditions, the DNA genotype Normal of the parents will have to be recorded on the ANKC database. Official results submitted to the database will only be accepted where the DNA sample sent for testing is from a micro chipped animal and was taken and identified by an authorised collector (eg: vet, breed club official). At this stage, further DNA testing or profiling to verify parentage will not be required but breeders are reminded that a litter registration application is a legal document. A majority of registered owners within the breed and responding to this survey must be in favour before approval is given by the ANKC. Each of the above six items will be considered separately

#### Rationale

DNA testing is now available to determine the genotype (Normal, Carrier or Affected) of Border Collies for the two fatal conditions Ceroid Lipofucinosi s (CL), & Trapped Neutrophil Syndrome (TNS) and also the non-fatal eye affliction, Collie Eye Anomaly (CEA). These three conditions are all inherited as autosomal recessive traits and, in each case, both parents have to be Carriers or Affecteds to produce affected offspring. Most concerned breeders are already DNA testing breeding stock to ensure that no more Border Collies will ever be born affected by CL, TNS or CEA. There is absolutely no reason to eliminate any animals carrying any of the three conditions from the gene pool, now or in the future. The whole point of using these tests is to preserve all bloodlines while ensuring puppies are not affected by these conditions. Preservation of a diverse gene pool is imperative to avoid increasing the risk of other genetic problems occurring within the breed. We now have the means to completely control CL, TNS and CEA. Narrowing the gene pool by avoiding carriers will increase the incidence of other conditions that have been identified but are not yet considered "breed problems", not to mention the genetic problems we don't even know about yet. DNA testing for CL & CEA became available in 2005 & TNS in 2007 but not all dogs were micro chipped at this time. Many Border Collies including some that have stored frozen semen have DNA test results for CL & TNS from samples submitted before micro chipping was routine. Therefore, Border Collies born before 1st January 2005 need not have official test results or may be untested provided they are only bred to a DNA Normal partner. This will allow for the use of older animals that may not have been micro chipped when samples were taken for testing and the indefinite use of valuable frozen semen that has been stored to protect the future of the breed.

**Cut along the Dotted Line-✂-----**

### ANKC BORDER COLLIE SURVEY

**This section to be sent to the ANKC Administrator, PO Box 760, Fortitude Valley. QLD. 4006 by 31 December 2009**

#### **YOUR VOTE (Please cross out whichever is not applicable)**

- |     |   |        |
|-----|---|--------|
| 1.1 | Ceroid Lipofucinosi s should be designated as a controlled disease in the breed | YES/NO |
| 1.2 | Litter Registration Limitations should apply, as above in proposal 1.2.         | YES/NO |
| 2.1 | Trapped Neutrophil Syndrome be designated as a controlled disease in the breed  | YES/NO |
| 2.2 | Litter Registration Limitations should apply, as above in proposal 2.2          | YES/NO |
| 3.1 | Collie Eye Anomaly be designated as a controlled condition in the breed         | YES/NO |
| 3.2 | Litter Registration Limitations should apply, as above in proposal 3.2          | YES/NO |

NAME: \_\_\_\_\_ MEMBERSHIP NUMBER: \_\_\_\_\_

Registered Number and DOB of a Border Collie you currently own: \_\_\_\_\_ DOB: / /

Signature: \_\_\_\_\_ Date: / /