BACKGROUND & PURPOSE

The COA Litter Badging Program is a service provided to breeders and prospective owners that compares planned breedings against criteria set by the Health and CrossBreeding Committee. The criteria are intended to define key points that breeders should consider as they plan their litters, but are not a comprehensive list of all factors that should go into a responsible breeding decision. Qualifying planned litters will be awarded up to three badges for meeting Health, Diversity, and Performance benchmarks. Each badge has two levels - Silver and Gold.

The Program is designed to encourage breeders to include health, diversity, and working ability in planning their litters, in order to improve the long-term sustainability of the Chinook breed. It is also designed to help new breeders with a list of things to consider that they can discuss with their mentors and/or Committee members as they go about planning a first breeding.

It is important to note that the Program is completely voluntary - It in no way prevents breeders from using dogs or planning litters that do not comply with the criteria. In some cases, there may be solid reasoning behind breeding decisions that do not comply – for example, use of a dog that lives in an area without access to annual eye exams, who therefore cannot complete one of the Health badge criteria, or use of a healthy, well-tempered beloved family pet that has genetic diversity but has not participated in performance events. For these situations, breeders would be encouraged to consider litters that might qualify for one of the other badges or two, to balance out the inability to qualify for one. *It is not envisaged that all litters could or should qualify for all badges, but that the criteria do encourage breeders to consider important drivers of health, diversity and working ability in the next generation.*

Overall, breeders should not limit their breeding considerations to the badge criteria - things like structure, temperament, and type are also critically important but more difficult to quantify. While conformation titles can help to validate a dog's basic good structure, and titles like the UKC SPOT and Therapy certification can earn a litter a Performance certification, breeders are strongly encouraged to use additional evaluations on structure and temperament in their breeding decisions.

Breeders with qualifying litters may use the badges on their websites to advertise those specific litters, and the COA Litter page and CQ Whelping Box will include them. As this is a voluntary program, litters that do not conform to the criteria, or those that breeders choose not to submit, will be included as well in the newsletter and on the website.

PROCESS

All litters by default begin as Unbadged. Breeders must nominate planned litters with Litter Badging Form L-1 and submitting all documentation on parents demonstrating the litter meets Badge Criteria to the Health and CrossBreeding Committee. Within 1 month of receiving the nomination, the Committee will identify appropriate badges and notify the breeder, Webmaster and CQ editor. Online health certifications may be referenced via a link, otherwise scanned copies of certificates from the issuing authority are required. In lieu of COI, the breeder may share an Optimal Selection report or print/scan a copy of the data from OS. The WDP Chair will validate any COA titles, and UKC certification/ titles must be included.

Breeders that submit litters for evaluation agree to participate in a brief annual survey about the process and criteria and in an annual survey about summary litter health results.

| Silver | | | Gold | | |
|-------------|----|---|--|--|--|
| Health | 1 | Both Parents with permanent normal hip evaluations publicly available AND | Both Parents with above average permanent hip evaluations - PennHIP > 60th %ile or OFA Good or Excellent AND | | |
| | 2 | Both parents with Normal or Breeder's Option eye evaluations at 18 months or older AND | Both parents with Normal or Breeder's Option eye evaluations not older than 1 year at time of breeding AND | | |
| | 3 | At least one parent with a Normal or Breeder's Option eye evaluation in within a year of the planned breeding. AND | At least 1 parent is MDR1 Clear per genetic screening AND | | |
| | 4 | Both parents do not have the same Breeder's Option condition. | At least 1 parent is Dwarfism Clear per genetic screening | | |
| Diversity | 1 | 5%, whichever is greater OR the OS Health Index (Breeder Tool) is $> =$ at least one parent | 5 Generation COI of offspring < 5% OR OS Health Index of offspring > Current Chinook average OR One parent is an New Founder or F1/2/3 descendant of the | | |
| | | | Conservation Program AND | | |
| | 2 | Whole Pedigree COI (30 Generations) < 40% AND | Whole Pedigree COI (30 generations) < 36% AND | | |
| | 3 | The sire has <= 10 offspring OR no more than 2 litters | Sire has < 7 offspring AND no more than 2 prior litters | | |
| Performance | 1 | One Parent has a COA WDP Certification or UKC first-level title OR | Both parents have a COA WDP Certification or UKC first- level title OR | | |
| | 1b | One Parent is a working dog - SAR, Service (not Therapy), working sled dog, etc. | One parent has 3 or more WDP Certifications / UKC first level titles OR | | |
| | 1c | | One parent has two or more WDP Titles / UKC Second level titles. | | |

A summary of the criteria is included below:

Litter badges do not constitute a COA guarantee of health or working ability of any puppies.

DETAILS

Health Category:

The purpose of the Health Badge is to ensure breeding stock is screened for known health issues in the breed, and that results are made public. As such, criteria include parents that have hip and eye evaluations (as adults) and are screened for the MDR1 and dwarfism gene. While we encourage breeders to not use dogs affected with seizures or allergies, there are currently no tests for these conditions and therefore they are not included as criteria.

The Silver badge requires the following criteria to be met:

- 1. Normal permanent (PennHIP @ > 1 year, OFA @ > 2 years) Hip evaluations have been completed for each parent and are publicly available, and
- 2. Eye evaluations have been completed for both parents after the parent was 18 months old with Normal or Breeder's Option results
- 3. At least one parent has a Normal or Breeder's Option evaluation within a year of the breeding.

The Gold badge sets a higher standard based on the results of the tests.

- 1. Both parents have above average permanent (PennHIP @ > 1 year, OFA @ > 2 years) hip evaluations OFA Good or Excellent, or PennHIP >=60th %ile.
- 2. Both parents have a Normal or Breeder's Option eye evaluations not older than 1 year at time of breeding
- 3. At least one parent is MDR1 Clear per a genetic screen
- 4. At least one parent is Dwarfism Clear per a genetic screen

For the purposes of this badge, "normal" hips are defined as no degenerative joint disease or osteoarthritis and PennHIP 50th %ile or greater, and/or OFA Fair, Good, or Excellent rating. If a dog has both OFA and PennHIP, only one rating needs to meet the above criterion. For both badges, if health information has not been made public with the OFA or other relevant authority, results can be sent in to the COA with the litter application. Any health certifications sent to the COA much include a release from the owner/breeder allowing results to be included in public health databases.

Diversity Category:

The purpose of the Diversity Badge is to recognize breeders that are considering the genetic diversity of the litter, and of the breed, in their decisions. It requires either COI information which can be obtained from the Chinook Pedigree Project and/or actual genetic diversity information from the Optimal Selection (OS) genetic panel. This badge also seeks to limit the use of breeding dogs to prevent them from becoming popular sires/dams.

The Silver level requires the following 3 criteria be met:

- 1. The projected 5 generation Coefficient of Inbreeeding (COI) of the offspring be lower than both parents, or lower than 5% in the event a parent's 5-gen COI is low itself. OR that the Optimal Selection offspring's Health Index be higher than at least one parent.
- 2. The whole pedigree (30+ generations) COI of a litter must be < 40%, and
- 3. The sire must not have more than 10 offspring or 2 prior litters.

The Gold level requires

- The 5 gen COI of the offspring be < 5% OR the offspring OS Health Index be above Chinook average OR that an F1/2/3 descendant of the Conservation Program is used as a parent for the litter.
- 2. AND the full pedigree COI must be lower than Chinook average (as annually calculated by the CPP)
- 3. AND the stud must have <7 offspring and no more than 1 prior litter.

5 generation COIs are used due to the number of unknowns still in 8 generation Chinook pedigrees, and the remaining uncertainty over the North Wind pedigrees. It is expected this criterion should change over time, as should the overall whole pedigree COI measure.

Performance Category:

The purpose of the Performance Badge is to recognize those Chinooks that have demonstrated working ability in harness or other COA or UKC disciplines, and/or proper structure through conformation titles, and/or reasonable temperament and training for a Chinook. It should be noted that working ability, structure and temperament cannot be completely assessed through titles, and breeders are strongly encouraged to evaluate these traits individually and incorporate plans to improve them in their breeding programs. Non-titled working dogs (SAR, sled dogs, etc) are recognized through the Silver Badge at the discretion of the Committee. Breeders should provide evidence of the dog's work.

The Silver Badge requires

- 1. One parent to have a COA certification or UKC first-level title.
- 2. One parent to be a recognized working dog (SAR or Service Dog certified [NOTE: Therapy certification is not sufficient], working sled dog, working sheep dog, etc.)

The Gold Badge requires

- 1. BOTH parents to have WDP certification or UKC first-level title, OR
- 2. One parent to have three or more WDP certifications/UKC first level titles OR
- 3. One parent to have two or more WDP titles/ UKC second-level title.

Analysis:

All 28 Litters from 2014 & 2015 were evaluated against the criteria. The results indicate significant gaps in the Health category- primarily with public records of eye evaluations.

| | Health | Diversity | Performance | |
|--------|--------|-----------|-------------|--|
| Silver | 7% | 32% | 29% | |
| Gold | 18% | 25% | 25% | |

| Year | Breeder | Sire | Dam | Health | Diversity | Performance |
|------|--------------------|----------------------------------|--------------------------------------|--------|-----------|-------------|
| 2014 | Bashaba | GreatMountain x Cedar Adahi | Bashaba Sakari Dawn | Gold | Gold | Gold |
| 2014 | GreatMountain | GreatMountain Walden's Dream | GreatMountain Franconia Notch | | | |
| 2014 | Spring Creek | Atoll Hurricane Nakoda Rain | Moonsong Law of the Jungle | | Silver | |
| 2014 | Moonsong | Moonsong Never Cry Wolf | Boreayl's the Bees Knees of Moonsong | | Gold | |
| 2014 | GreatMountain | GreatMountain Ashkii | GreatMountain Medomak | | | |
| 2014 | Wachusett | Sandhill's Linc of Channahon | Granite Hill Cascade range | Gold | Gold | Silver |
| 2014 | Silvertree | Granite Hill Odiorne Point | Frontier in Bocca al Lupo | | Silver | Gold |
| 2014 | Carrigain Mountain | Skyland Sabine Cuculann GreatMtn | GreatMountain Madison | Gold | | |
| 2014 | Desert Sol | Aspencreek's Pal's Bro | MountainThunder Great Kyraina | Silver | Gold | Silver |
| 2014 | Granite Hill | Granite Hill Calypso | Granite Hill Eureka | Gold | | Silver |
| 2014 | Granite Hill | Lakeside Run's Tannin | Granite Hill Suzie-B | | | Silver |
| 2014 | Great Valley | Forever Greene Berik | Daybreak Kenya Grace | | Silver | |
| 2014 | Southwind | Southwind Tungortok Tatkrent | Cloudburst Ledgebak Kraumayok | | | Gold |
| 2014 | Seabreeze | GreatMountain Riley O'Jones | Tomorrow River Nicatou | | | |
| 2014 | Jersey Sherpa | Granite Hill Nemah Tsolo | Grand River Katara | | Silver | |
| 2014 | Frontier | Frontier Jackson | Frontier Halone Joy Kasute | | Silver | Silver |
| 2014 | Rain Mountain | Granite Hill Moses | Rain Mountain Skykomish River | Silver | Silver | |
| 2014 | Moonsong | Sugar River Jackjumper Song | Frontier Lady Luck | | Silver | |
| 2014 | Canterbury | Skyland Sabine Cuculann GreatMtn | Granite Hill Kallie Abnaki Rain | | | |
| 2014 | Long's Peak | GreatMountain Cutler | Forever Greene Kinniksuq | | | Gold |
| 2014 | GreatMountain | GreatMountain Macwahoc | Daybreak GreatMt DownEast Sky | | | |
| 2015 | Gateway | Southwind Tungortok Tatkrent | Cloudburst LedgeBak Alaya | | | Silver |
| 2015 | MountainThunder | Cloudburst LedgeBak Eclipse | MountainThunder Terra Tomah | | Gold | Gold |
| 2015 | Hurricane Rain | Moonsong Never Cry Wolf | Hurricane Elizabeth in the Rain | | | |
| 2015 | Forever Greene | Granite Hill Winnepesaukee | Forever Greene Qannik | Gold | | Silver |
| 2015 | Bashaba | Frontier Luck of the Draw | Bashaba Sakari Dawn | | Silver | Gold |
| 2015 | Carrigain Mountain | Granite Hill Shalapau Mamook | GreatMountain Grey Ghost | | Gold | Silver |
| 2015 | Spook Nook | Callicoon Ukko | Moonsong Small Wonder | | Silver | Gold |