

Presented by the TICA Bengal Breed Committee (2015-2018) for the illustration and understanding of the Bengal Cat Standard, Bengal History, Bengal Cat Handling and Bengal Cat Genetic Inheritance

For Breeders, Enthusiasts, Exhibitors and Evaluators of the Bengal Cat



The devotees of the Bengal Cat have undertaken a consequential endeavor that has brought incredible joy, challenge, triumph and love to the world. Bengal Cat breeders are the most diverse and numerous of all feline enthusiasts – experience, geography and socio-economic background. Bengals are a mixture of all known feline possibilities – all colors, all patterns, hair lengths, body types and brand new *non-Felis sylve*stris derived genes. When Bengal Cats were accepted and developing no tests existed for any desireable or undesirable traits.

This breed was not found on an island nor a standard written for a few cats that already existed. The idea of the ideal Bengal Cat was an aspiration. The beauty of the Bengal Cat exists because of dedicated breeders.



Is the Bengal Cat breed distinctiveness valued enough by those seeking to appreciate, breed and evaluate Bengal Cats?

The world now has cats that seek human attention and affection wrapped in coats once caressed only through hunting or trapping. These cats have heads and bodies with exotic essence previously enjoyed in fantasies, by the very lucky or very rich. They are domestic cats in every sense of the word, that's amazing!





What makes the Bengal Cat a unique breed now? ...in the future?
Why Breed them?

Historical & Multi- Cultural Appeal of Leopard



Vogue Magazine Editor in Leopard Cat Coat NY Fashion Week 2014



Zulu Ritual in South Africa 2004



Pompeii Mural featuring spotted domestic cat 100 C. E.



King Faisal of Greater Syria & Iraq w/ pet leopard, 1925 Baghdad



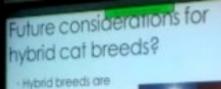
Egyptian Tomb relief w/ pet leopard and leopard skins, Temple Beit el Wali, 1280 BCE



Vladimir Putin and Amur Leopard 2014



Kanye West in Leopard print jacket 2013



- among the most popular cats in the world
- Many breeders mixing multiple breeds (2-3 species)
- How does this impact genetic testing and legal ownership?



William Murphy, PhD
presented report at 2015
Tuft's Canine & Feline
Genetics & Breeding
Conference . What are the
motivations and
ramifications of "hybrid"
breeds.

The reception to this idea and to these breeds was not positive by this group of mostly veterinarians -Hutcherson

Why the words "Asian Leopard Cat" are NOT in the Standard Initial Goal –

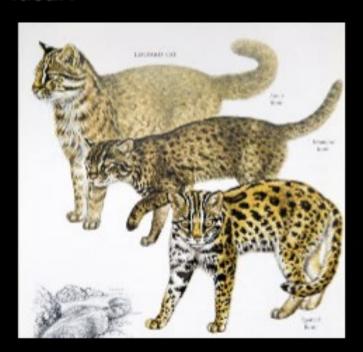
Which Asian Leopard Cat? The species is highly variable in pattern, color, size and proportions



Asian Leopard Cat is not in the standard because they are highly diverse in general appearance and some zoologists and feline taxonomists divide them into as many as four (4) separate species. Genetic analysis

validates the idea. William Murphy PhD, Brian Davis PhD, Jay Bangle, Anthony Hutcherson 2016

Which ALC subspecies is the ideal?



- Jean Mill sought to create a miniature leopard, harvesting only the pattern & contrast from the Asian Leopard Cat
- Other Early Breeders & Exhibitors wanted Asian Leopard Cat replicas
- Could/Should law enforcement be able to easily distinguished between a domestic Bengal Cat and an Asian Leopard Cat (or other non-domestic species) with a glance?

Why the words "Asian Leopard Cat" are NOT in the Standard

Initial Goal -

- Jean Mill sought to create a miniature leopard, harvesting only the pattern & contrast from the Asian Leopard Cat.
- Other early breeders wanted an Asian Leopard Cat replica (Kent, Donoyan)
- Gloria Stephens, Von Pilcher, Solvieg Pfluger and Jean Mill settled on writing the standard around the F1 (Asian Leopard Cat X Domestic Shorthair) as the ideal
- Conservation Asian Leopard Cats are classified as Endangered by the US.
- Law Would law enforcement/animal control/zoos/veterinarians tell them apart?
- Politics How do political bodies define "what is a domestic cat"?
- Science How is science and genetics affecting the determination of species and the ability to select and traits?



Leslie Lyons, PhD, Greg Barsh PhD, Chris Kaelin PhD discussing Bengals at Genomics Conference





New Asian Leopard Cat & Sable Coat for sale (2016)





Dossier on Bengal Cats to oppose making all Bengal Cats illegal in Belgium 2016

Who is responsible for the Bengal Cat breed now & into the future?

Breeders

- Personal preferences
- · What they can place/sell
- What inspired them to breed in the first place
- What is appreciated by fellow breeders
- What wins at shows brings them acclaim/3rd party appreciation
- Awareness, acceptance, validity and application of emerging insights



Registry

- Definition of a breed
- Rules for acceptance of new color/hair length/pattern/head structure
- Value from publicity, registration, entries, volunteers
- Competition from other registries for \$, members, clubs, attention
- What members, clubs, board of directors allow
- Awareness, acceptance, validity and application of emerging insights



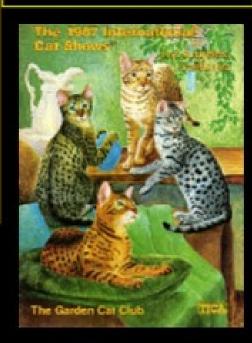
Judges

- What their personal preferences & history suggest
- How they accept and apply registry rules to
- their choices
- Awareness, acceptance, validity and application of emerging insights

- Their personal preference
 How the breed
- How the breed is readily distinguished from variation of random bred populations (internationally)

Public

- Depiction in popular culture (media, art, business)
- Cultural references
- Historical metaphors





Please DO NOT Call Bengal Cats a Hybrid Breed

Bengal Cats are a Category 1 (one) Breed in TICA -

- Only Bengal Cats bred to Bengal Cats produce Bengal Cats
- Asian Leopard Cats Prionailurus bengalensis is NOT an allowable outcross for Bengal Cats. ALC X domestic
 cats of any breed (including Bengal Cats creates an F1 Foundation Cat
- TICA Registration Rules Define Bengal Cats as: 33.2.2 Domestic x Non-Domestic Source Species Hybrid Breed - A breed being developed by means of deliberate foundation crosses between domestic cats and a single non-domestic source species. The domestic cats used must not have a structural mutation.



Please DO Call Bengal Cats

- a domestic breed developed from Domestic X Non-Domestic Cat Hybrids
- Hybrid incorrectly infers Wild Cat (Asian Leopard Cat) X domestic = Bengal Cat





Ramifications

Some municipal, US State and national laws restrict or prohibit hybrids. Incorrect use of terminology when judging, on websites etc. can result in confusion of what a Bengal Cat is to the law, science and public. That confusion can lead to domestic Bengal Cats being prohibited and made illegal.

Where is the Wild look?

The Bengal Cat Breed Committee was conflicted?

Show Non-Domestic Cats (wild) to demonstrate traits to breeders & judges who don't look at them often.

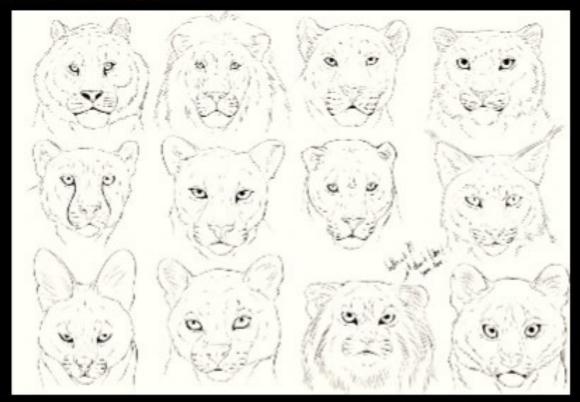
Do NOT show Non-Domestic Cats (wild) so breeders and judges can SEE the ideal traits already in the domestic Bengal population.





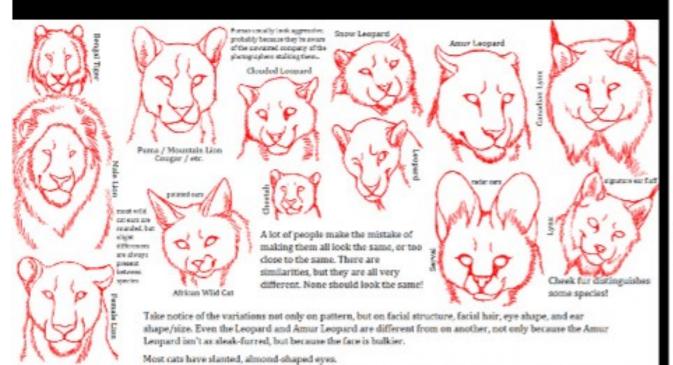
What is the Wild look?





Artist sketches depict differences in "wild" looks.
Used with permission (Livanas 2015 above, Robin Leisens 2014, left)

What is the Wild look?



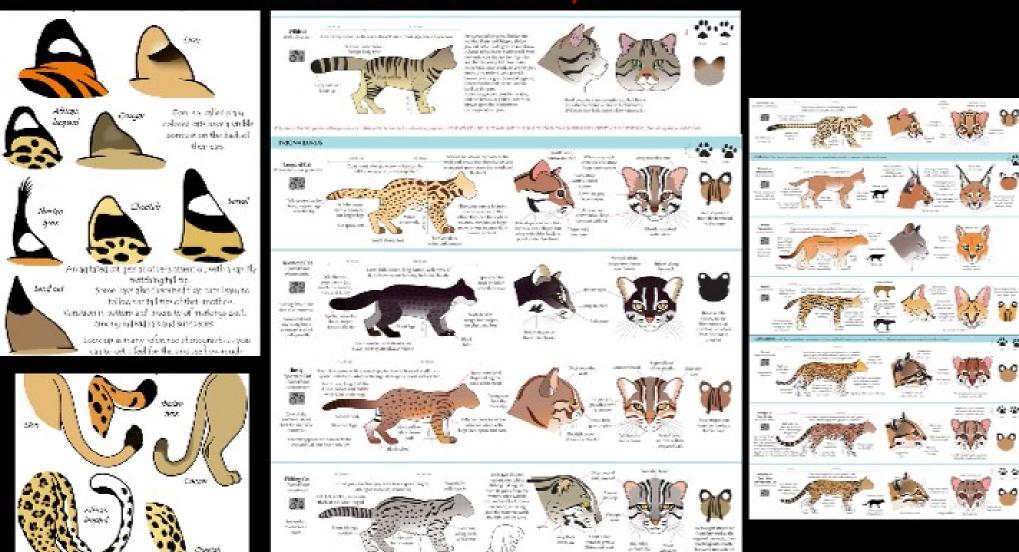
Also remember that fellines, no matter the species, have thick muzzles and different noises than canines, usually wavy at the top. Their muzzles, long or short, are always sort of bulky, but the lower jaw is smaller and mostly fur if it appears to distend downward a lot.

Artist sketches depict differences in "wild" looks.

Used with permission (CarmannMM-Dirda 2012 above, Devin Kurtz to & bottom right)



What is the Wild look? Beyond heads

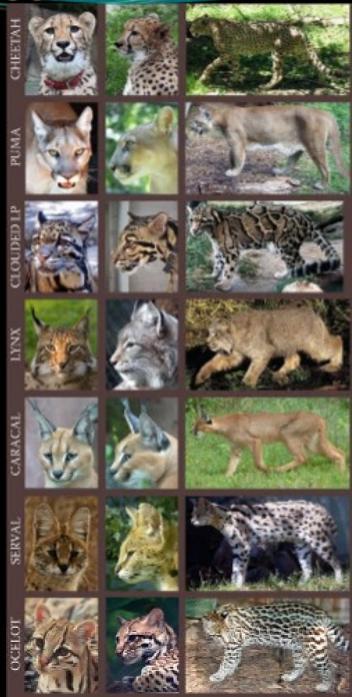


Artist sketches depict differences in "wild" looks. Used with permission by Journana Medlej Guide to Cats

Feline Comparison Body Front





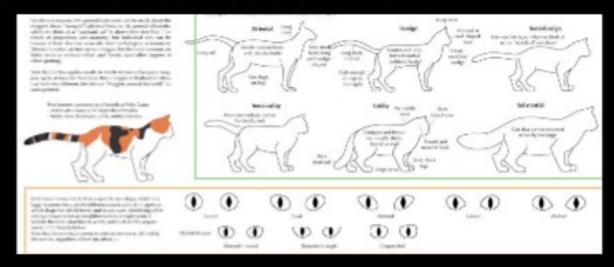


Artist depictions of "wild" looks.

Jsed with permission (Sindos 2015 chart, art Dolphy for Jungletrax 2015, middle)

The Bengal Cat in the context of Domestic Cats looks?





Journana Medlej domestic cat bodies, 2012 above
Breeds of Cats by Steinlen 1897 * Note Wild Cats of Siam are likely Asian
Leopard Cat X domestic hybrids















The goal of the Bengal breeding program is to create a domestic cat which has physical features distinctive to the small forest-dwelling wildcats, and with the loving, dependable temperament of the domestic cat.

- Asian Leopard Cat Prionailurus bengalensis
- Ocelot Leopardus pardalis
- Margay Leopardus weidii
- Marbled Cat Pardofelis marmorata
- Oncilla (or Tigrina, Little Spotted Cat) Leopardus oncifelis















The goal of the Bengal breeding program is to create a domestic cat which has physical features distinctive to the small forest-dwelling wildcats, and with the loving, dependable temperament of the domestic cat.

- Asian Leopard Cat Prionailurus bengalensis
- Ocelot Leopardus pardalis
- 3. Margay Leopardus weidii
- Marbled Cat Pardofelis marmorata
- Oncilla (or Tigrina, Little Spotted Cat) Leopardus oncifelis

















The goal of the Bengal breeding program is to create a domestic cat which has physical features distinctive to the small forest-dwelling wildcats, and with the loving, dependable temperament of the domestic cat.







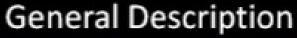






Keeping this goal in mind, judges shall give special merit to those characteristics in the appearance of the Bengal which are distinct from those found in other domestic cat breeds. A Bengal cat is an athletic animal, alert to its surroundings; a friendly, curious, confident cat with strength, agility, balance and grace.

















It is a medium to large cat which exhibits a very muscular and solid build. Its wide nose with prominent whisker pads and large oval, almost round eyes in a slightly small head enhance the wild appearance and expressive nocturnal look. Its very slight, to nearly straight, concave profile and relatively short ears with wide base and rounded tips add to the Bengal's distinctive and unique appearance.















The short, dense coat has a uniquely soft and silky feel. The coat may be glittered or not glittered, with neither type to be given preference. A thick, low-set, medium-length tail adds balance to the cat.





Shape	.6
Ears	.6
Eyes	.5
Chin	5
Muzzle	. 4
Nose	2
Profile	6
Mode	-











Head.....35 points

















Broad modified wedge with rounded contours. Longer than it is wide.

Head (continued)

Shape...... 6 points

Correct

oct





Incorrect





Slightly small in proportion to body, but not to be taken to extreme.

Head (continued)

Shape..... 6 points

Correct







Incorrect





The skull behind the ears makes a gentle curve and flows into the neck.

Head (continued)

Ears..... 6 points



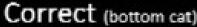


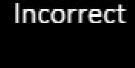


Correct









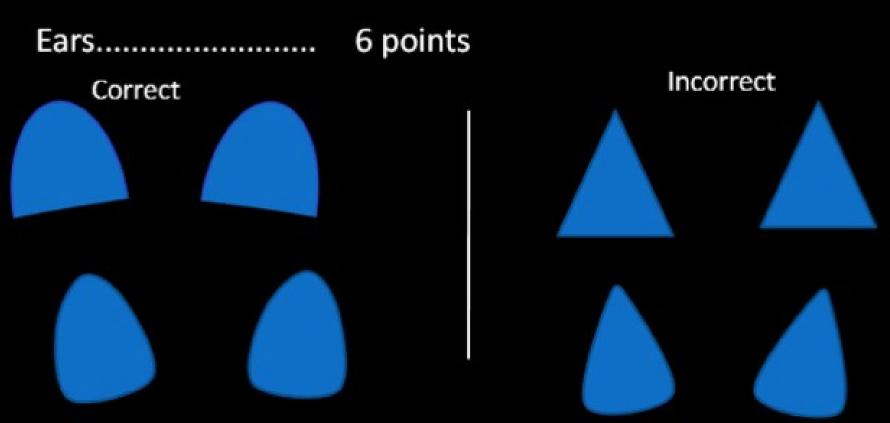






Medium to small, relatively short, with wide base and rounded tops. Set as much on side as top of head, following the contour of the face in the frontal view, and pointing forward in the profile view. Light horizontal furnishings acceptable; but lynx tipping undesirable.

Head (continued)

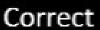


Medium to small, relatively short, with wide base and rounded tops. Set as much on side as top of head, following the contour of the face in the frontal view, and pointing forward in the profile view. Light horizontal furnishings acceptable; but lynx tipping undesirable.

Head (continued)

5 points Eyes.....

Incorrect

















Oval, almost round. Large, but not bugged. Set wide apart, back into face, and on slight bias toward base of ear. Eye color independent of coat color except in the lynx points. The more richness and depth of color the better.

Incorrect are too almond shaped, almost hooded and too small.

Chin..... 3 points

Correct

Incorrect











Strong chin, aligns with tip of nose in profile.

Muzzle.....3 points

Correct Incorrect













Full and broad, with large, prominent whisker pads and high, pronounced cheekbones. Slight muzzle break at the whisker pads.

Nose.....3 points

Correct













Incorrect



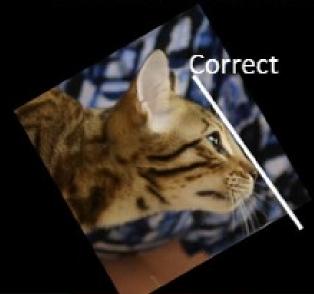




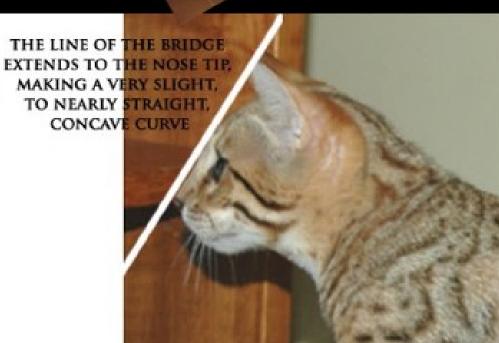
Large and wide; slightly puffed nose leather. Incorrect noses too small in proportion to face & eyes and too narrow.

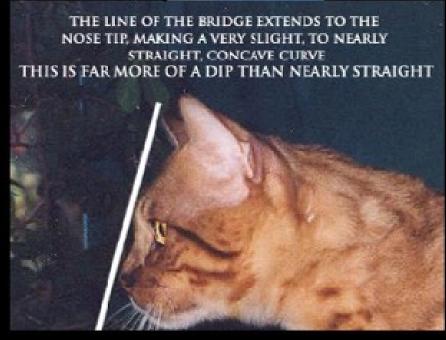
Profile.....6 points

Incorrect



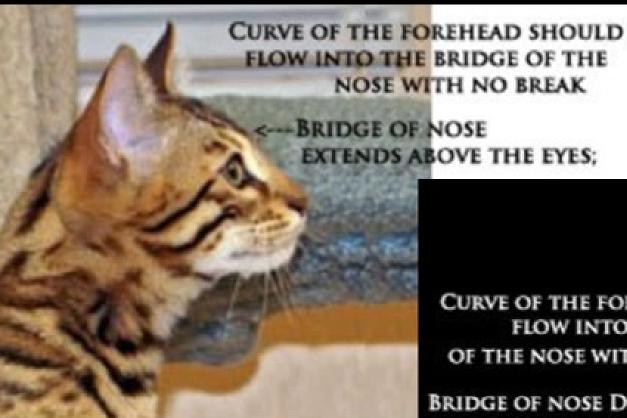
Convex





Profile......6 points

Correct



Incorrect

CURVE OF THE FOREHEAD DOES NOT FLOW INTO THE BRIDGE
OF THE NOSE WITH NO BREAK ----->

BRIDGE OF NOSE DOES NOT ---->
EXTEND ABOVE THE EYES



Some have noted straight and convex profiles on the Asian Leopard Cat Prionailurus bengalensis. The Bengal Cat is not supposed to be a replica of the Asian Leopard Cat. See slides 7 & 8.

Profile......6 points

Correct













Incorrect



Curve of the forehead should flow into the bridge of the nose with no break. Bridge of nose extends above the eyes; the line of the bridge extends to the nose tip, making a very slight, to nearly straight, concave curve.

Neck.....3 points







Incorrect



Neck: Long, substantial, muscular; in proportion to the head and body.

Body.....30 points







Torso	5
Legs	4
Feet	4
Tail	5
Boning	6
Musculature	6









Torso.....5 points

Correct













Torso: Long and substantial, not oriental or foreign. Medium to large (but not quite as large as the largest domestic breed).

2016 Bengal Breed Seminar Body

Legs.....4 points









Incorrect



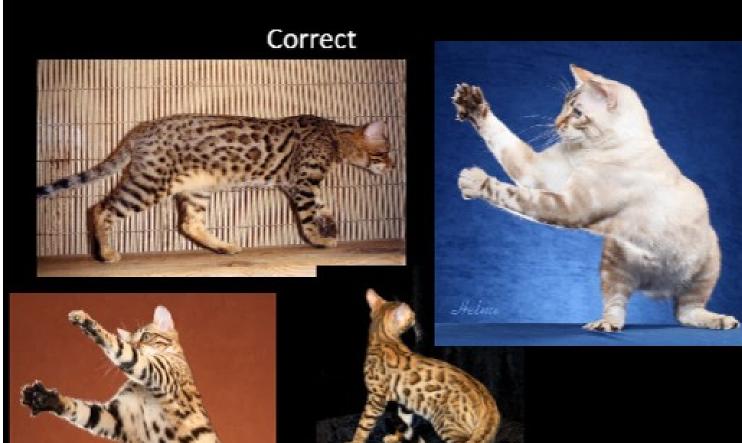




Medium length, slightly longer in the back than in the front.

2016 Bengal Breed Seminar BODY (continued)

Feet.....4 points







Large, round, with prominent knuckles Incorrect is too large but has lovely spots!.

2010 Bengal Breed Seminar BODY (continued)

Tail.....5 points

Incorrect















Medium length, thick, tapered at end with rounded tip.

Incorrect: Too narrow & tapering and too long & thin

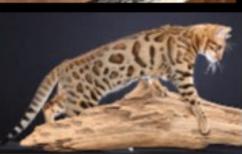
Boning.....6 points

Correct















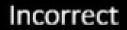


Sturdy, firm; never delicate.

2016 Bengal Breed Seminar BODY

Musculature.....6 points

Correct













Very muscular, especially in the males, one of the most distinguishing features.

Coat/Color/Pattern

Color...... 10 points
Brown Tabby















All variations of brown are allowed. Markings various shades of brown to black. Light spectacles encircling the eyes and a virtually white ground color on the whisker pads, chin, chest, belly and inner legs is desirable.

Coat/Color/Pattern

Color..... 10 points



Brown Tabby











All variations of brown are allowed. Markings various shades of brown to black. Light spectacles encircling the eyes and a virtually white ground color on the whisker pads, chin, chest, belly and inner legs is desirable.

2016 Bengal Breed Seminar Coat/Color/Pattern

Color..... 10 points

Black Silver Tabby



Coat/Color/Pattern

Color..... 10 points

The 'Snow' Leopard colors



Here we have a group of the various albino series colors, the Seal Lynx Points at 6 o'clock and 8 o'clock. Seal mink at 12 o'clock, 10 o'clock and 1 o'clock. Seal Sepia at 3 o'clock.

Coat/Color/Pattern

Color..... 10 points

Seal Sepia Tabby















Pattern can be various shades of brown. There should be very little or no difference between the color of the body (pattern) markings and point color.

Coat/Color/Pattern

Color..... 10 points



Seal Mink Tabby

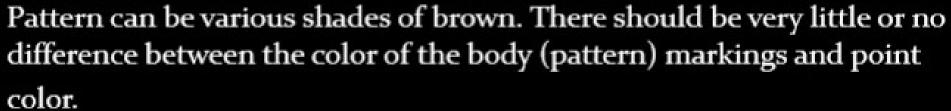












2010 Bengal Breed Seminar Coat/Color/Pattern

Color..... 10 points

Seal Lynx Point









Incorrect





Pattern can be various shades of brown. There should be very little or no difference between the color of the body (pattern) markings and point color.

Coat/Color/Pattern

Color..... 10 points



Silver 'Snows'







Silver Seal Lynx Point

Silver S



Silver Seal Sepia



Pattern can be various shades of brown. There should be very little or no difference between the color of the body (pattern) markings and point color.

2016 Bengal Breed Seminar Coat/Color/Pattern

Color..... 10 points

Incorrect Colors













Some examples of Incorrect colors that are in the gene pool.

1.Solid 2.Dilute (Blue) 3. Cinnamon 4. Chocolate 5. 01 Red

Coat/Color/Pattern

Texture...... 10 points

Correct









Incorrect

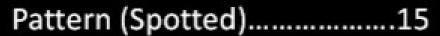






Dense and luxurious, close-lying, unusually soft and silky to the touch.





























Spots shall be random, or aligned horizontally.

2016 Bengal Breed Seminar Pattern (Spotted)......15



Rosettes showing two distinct colors or shades, such as pawprint shaped, arrowhead shaped, doughnut or half-doughnut shaped or clustered are preferred to single spotting but not required

2016 Bengal Breed Seminar Pattern (Spotted)......15



















Contrast with ground color must be extreme, giving distinct pattern and sharp edges.

2016 Bengal Breed Seminar Pattern (Spotted)......15

















Strong, bold chin strap and mascara markings desirable.

2016 Bengal Breed Seminar Pattern (Spotted)......15



Virtually white undersides and belly desirable.







2016 Bengal Breed Seminar Pattern (Spotted).....15













Blotchy horizontal shoulder streaks, spotted legs and spotted or rosetted tail are desirable. Belly must be spotted.

2016 Bengal Breed Seminar Pattern (Marbled)......15















Markings, while derived from the classic tabby gene, should be uniquely different with as little "bull's-eye" similarity as possible. Belly must be patterned.

2016 Bengal Breed Seminar Pattern (Marbled)......15













Pattern should, instead, be random, giving the impression of marble, preferably with a horizontal flow when the cat is stretched. Vertical striped mackerel influence is undesirable.

2016 Bengal Breed Seminar Pattern (Marbled).....15













Preference should be given to cats with three or more shades; i.e., ground color, markings, and dark outlining of those markings.

2016 Bengal Breed Seminar Allowances

















- Smaller size, in balanced proportion, of females.
 Slightly longer coat in kittens.
- Jowls in adult males.
- Eyes slightly almond shaped.





Allowances









- Mousy undercoat.
- 2. Paw pads not consistent with color group description.
- Asian Leopard Cat

2016 Bengal Breed Seminar Penalize











- Spots on body running together vertically forming a mackerel tabby pattern on spotted cats;
- circular bulls-eye pattern on marbled cats;

2016 Bengal Breed Seminar Penalize and Withold All Awards





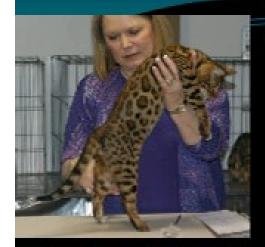








- Substantially darker point color (as compared to color of body markings) in Seal Sepia, Seal Mink, or Seal Lynx Point cats.
- Any distinct locket on the neck, chest, abdomen or any other area.WITHHOLD ALL AWARDS: Belly Not Patterned











Bengals revolutionized TICA by being the first breed to include the statement "Temperament must be unchallenging; any sign of definite challenge shall disqualify. The cat may exhibit fear, seek to flee, or generally complain aloud but may not threaten to harm", now included on all TICA standards. Bengal Cat breeders have demonstrated through painstaking selection that confident, relaxed and affectionate natures are inherited and may be increased or diminished through breeding choices.

Enthusiasts and Evaluators of Bengal Cats do justice by the Bengal Cat breed when timid, anxious and unaffectionate cats are removed from the breeding population and not rewarded with titles.

Handling a Bengal Cat requires no specialized training, instruction or demeanor than handling any domestic cat in a given situation. All cats respond to respectful caress, confident movement and minimal restraint.

Bengal Heritage - The Asian Leopard Cat (Prionailurus bengalensis)



- Small wild cat species, from 5-15 lbs. living in Asia from the Amur region south to Indonesia, from Philippines west to Pakistan.
- Highly adaptable feline, living in tropical to temperate climates
- Noted and named for the striking, high contrast spotted coat of most subspecies that makes the
 cat resemble a smaller version of the Leopard (Panthera pardus)
- One subspecies is endangered though, this feline is among the most common of all Asian wild cats

66

 The Asian Leopard Cat is noted for being shy, easily frightened and retiring though it frequently lives near human settlements

Asian Leopard Cat (Prionailurus bengalensis) Variation











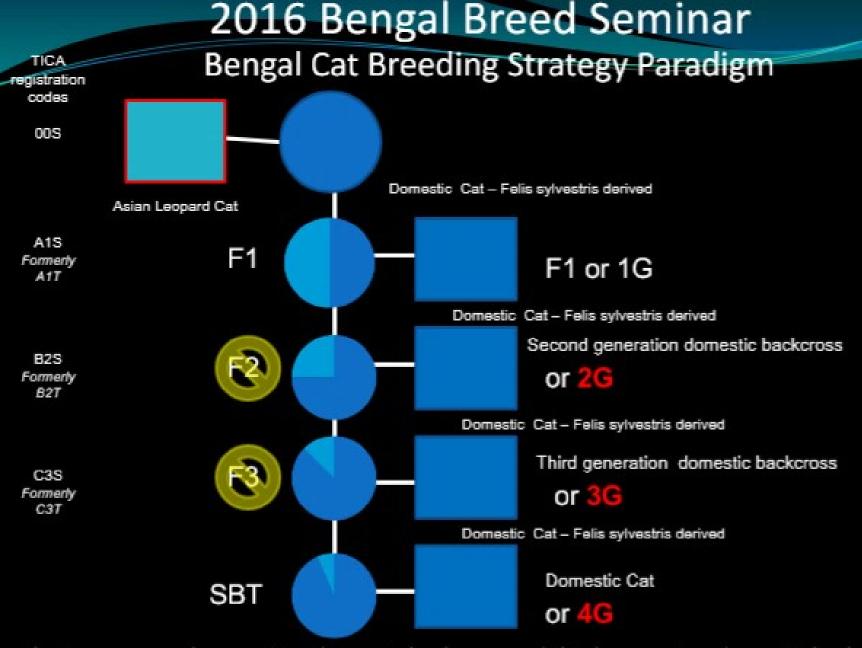




In 2016 all of these cats are considered the single species Asian Leopard Cats, Prionailurus bengalensis and represent distinct, often geographically distinctive subspecies. However, taxonomists (scientists specializing in classifying species), geneticists and zoologist continue to debate this fact. As recently as 2000 they were classified as four (4) distinctive species – The Asian Leopard Cat, Amur Leopard Cat, Tsushima Cat and Irimote Cat.

Recent genetic studies by Texas A & M has revealed:

- •Southern Leopard Cat is more related and has had species introgression with Fishing Cats.
- *Leopard Cats on the Indonesia Isles are more distinct genetically than other Leopard Cats
- •The Tsushima, Irimote and Amur Leopard Cats are more closely related to one another than to other Asian Leopard Cats



Use the terms second generation domestic backcross and third generation domestic backcross and NOT F2 & F3. In <u>ALL FIELDS OF SCIENCE</u> F2 generations are the result of F1 X F1 and F3 the result of F2 X F2. Incorrect terminology has caused scientific bodies and law enforcement agencies to disbelieve that Bengal Cats are domestic cats resulting in harmful policies and regulations

Bengal Cat Heritage - Domestic Cats



Domestic Cats of many breeds were used as outcrosses throughout the breed's history for temperament and special attributes.

- 1. Indian Mau (Millwood Tory of Delhi) glitter, green eyes and bloodline
- Egyptian Mau mackeral spotting, silver, "solid" black, green eyes
- Ocicat genetic diversity, robust size, dilute colors, classic tabby pattern & lynx point
- Abyssinian rufousing, increased ticking
- Burmese sepia and mink albino series genes
- 6. American Shorthair silver, heavy boning and musculature, increased bull's eye classic & mackeral
- 7. Domestic Shorthair good temperament, genetic diversity, long hair, mackeral and classic tabby & ?



Foundations – F 1

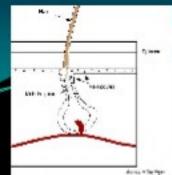








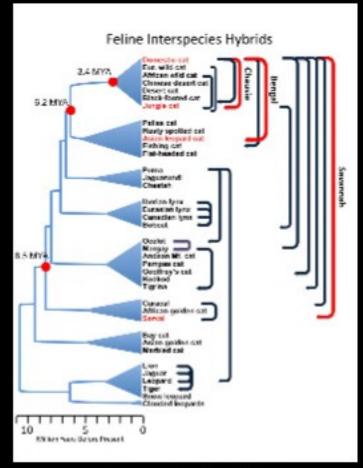
- The Bengal Cat is derived from hybrids between the Asian Leopard Cat (Prionailurus bengalensis)
 and domestic cats. These cats are considered "Foundation Bengals" and are not eligible showing.
- First generation (or A1S), Second generation domestic backcrosses and third generation domestic backcrosses males are generally sterile and only females may be used in breeding programs.
- Foundation Bengals may require more specialized care
- Bengal Cat refers to SBT (studbook) registered Bengals at least three generations removed from the F1 hybrid



Understanding Agouti - Briefly



Recent genetic analysis has discovered several cat species have evolved unique ASIP, Agouti Signaling Protein, this protein signals to each hair on a cat's body to produce pigment alternating pigment or no pigment at all in a specific manner and to create an overall marking pattern. Closely related species that have melanistic forms have developed unique ASIP to create the same phenotype – a melanistic cat.



William Murphy PhD slide, 2014



Understanding Agouti - Briefly

Asian Leopard Cat Prionailurus bengalensis

Wild Cat Felis sylvestris (lybica & sylvestris)















- •All domestic cat color and pattern (pigment distribution and arrangement) is based on *Felis sylvestris* ASIP the gene telling each hair when to produce the alternating bands of black & yellow pigment. Identified as A or a
- Asian Leopard Cats have their own ASIP Apb or A2, instructing that species on pigment distributions and arrangement in each hair.
- •Notice the amount of black pigment in each species and what parts of the body are the darkest. Can you visually see a degree of difference in the amount pigment variation (lightest and darkest hairs in each species? That is the morphological/phenotypical difference in their ASIP.

Apb – Agouti Prionailurus bengalensis



Charcoal is produced when there is a DISCORDANCE in the agouti signal – different "instructions" for the cat's pigment producing mechanism. One copy of the Apb ASIP (to create A LOT of black pigment and pigment alternation like an ALC) and one copy of the Felis sylvestris ASIP a (to create Felis sylvestris amounts of black and pigment alternation)

Charcoal can also be produced when a cat inherits Apb/Apb or Apb/A2 ASIP. These cats lack the dark cap and dark cape, some lack

the dark mask!

Asian Leopard Cat Prionailurus bengalensis Apb/Apb







ASIP Discordance





A there is (A) the day to remove

Short Communication

Who's behind that mask and cape? The Asian leopard cat's Agouti (ASIP) allele likely affects coat colour phenotype in the Bengal cat breed



First published, 25-August 2014, supposition remov-



Charcoal Seal Lyrix and Brown Charcoal sibling



Left to right, Seal Mink spotted, Charcoal Seal Mink Spotted and "Solid" Seal Mink spotted

These two cats are littermates produced from a melanistic Jaguar father and lion mother. The dark cat is phenotypically similar in coloration to a charcoal Bengal. Because the Lion and Jaguar are likely to have an ASIP unique to their species, there was discordance in the amount of black pigment to be produced, creating the charcoal looking animal. It is not a true melanistic animal but not fully colored either.





CHARCOAL BENGAL



North March

CALLED BY

MON-O MRCCAL BONDAL PATTERNS.



PACIF MARKINGS

CONVENTIONAL TABLEY

CHARCOAL IS PRODUCED BY THE COMBINATION OF A DOVESTIC CAT.

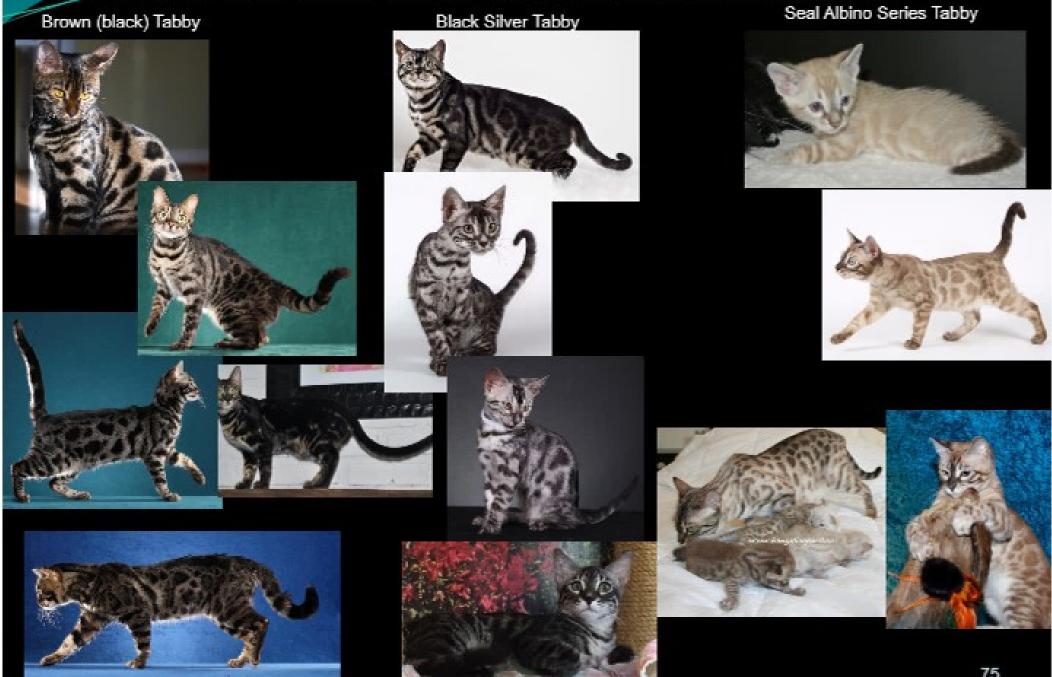




CHAPTONAL BENGALS HAVE UTTLE ON NO BUPDUSING AND ARL DARROR AND ORDINER THAN OTHER BEHINAUS. THEY WAS DISCLADING BATHER THAN VIOLEN SERVICE TOWER IT'S TYPICALLY BEACH A PROBLEM BASIS AND A DARK WARD DARK DODGES REGIONS.

CHARCOAL BENCAL FACE MARKINGS "ZIORIRO MASK"

Charcoal in existing Championship Bengal Cat Colors & Patterns



Bengal Cat Community & Science







Specifying and Sustaining Pigmentation Patterns in Domestic and Wild Cats

Christopher B. Kaelin et al. Science 337, 1536 (2012): DOI: 10.1126/science.1220893













Oxistanter R. Kaelin, ^{1,2}, Xiao Xu, ^{1,4}, Lewis Z. Hong, ² Victor A. David, ³ Kelly A. McGowan, ² Anne Schmidt-Küntzel, ^{1,4} Melody E. Roello, ^{1,4} Javier Pino, ⁷ Juan Pontius, ^{1,4} Gregory M. Cooper, ¹ Hermoones Baruel," William F. Swarson," Laurie Warker, "Circly K. Harper," Ann van Dyk," Shong Yee," James C. Mullikin, 12 Wesley C. Warren, 22 Eduardo Etrinik, 1934 Lidia Ros." Stephen J. O'Brien, 1++ Gregory S. Barsh, 1.2+ Marilyn Menotti-Raymond*

> Journal of Veterinary Cardiology Volume 17, Bappion on 1, Bacompa 2015, Pages 8282-8296

> > Supplement in us. The treit either thank



Molecular and Cellular Probes

William 26, Issue 6, December 2012, Pages 224-231 Animal DNA-Diagnostics



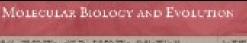
Reference intervals and allometric scaling of echocardiographic measurements in Bengal cats.

Brian A. Scanson 1998 US 4 . W Kirks I. Morgan 1998.



Genetic testing in domestic cats

Legie A. Legge & . 10 at Show more.



lather to reconstitution to his restator of the harmities, the reconstitution, and Problems, Advance is reconstitutional

the <u>many covery</u> previous of this series (cover he) many shipfied or

Mechanisms Underlying Mammalian Hybrid. Sterility in Two Peline Interspecies Models

Mark Both & Christian or Committee Strategie Continue C. Compile. Consignation of Present Committee of Manager 177.

Amendes believe, Copyright of Copyright, Texas, (ASA) in Ameniya. Made Committee and Make a residence of the deliberation MC







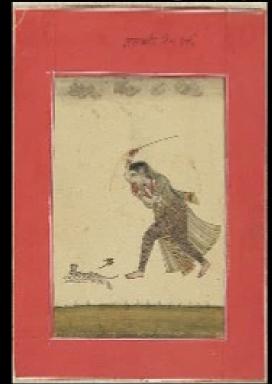
The Bengal Cat community has been actively engaged with the scientific community since the very beginning. Many Bengal Cats have been part of the research to improve understanding, increase appreciation and innovate selection in cats, mammals and all life. They should be 76

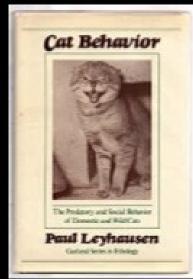
A Brief History

- The first Asian Leopard Cat documented by Western Europeans (Kerr, 1792) was captured swimming in the Bay of Bengal (hence the Latin name). That cat was taken back to camp and was bred to Kerr's domestic cat resulting in the first documented hybrids
- 1871 Crystal Palace Cat show featured F1 Asian Leopard Cat X domestic hybrids shown as "Hybrids"
- Paul Leyhausen hybridized Leopard Cat X domestic at Germany's Max Plank Instittue 1945-1960. Dr. Leyhausen created F1 X domestic backcross (2nd generation). Leyhausen theorized the Siamese Cat descended from ALC crosses based non-African Wild Cat confirmation and ALC-like behavior and vocalizations
- Jean Mill was the first to cross a domestic cat with an Asian Leopard Cat (Prionailurus bengalensis) in the US, 1963.
- Asian Leopard Cat X Domestic Cat hybrids were shown in CFA and ACFA during the 1970s
- Jean Mill's effort was a departure and success because of:
 - Emphasis on creating a domestic cat NOT hybrid
 - Anti-Pyramid Plans Encourage Collaboration, Encourage Passion focus, Emphasis on Collective Accomplishment, Di
 - Model and Encourage unrestrictive contracts
- Bengals show in Championship in TICA, GCCF, FIFE, ACFA, CFA (2017/2018?) as well as Australian & South African Cat Fancy Organizations



Jean Sugden (Mill) & first F1 Kinkin, 1963





1700 Mughal Woman chases Leopard Cat, Harvard Library, Showing Human Interaction w Asian Leopard Cat 77

2010 Bengal Breed Seminar The Bengal in TICA

- First Bengal registered with TICA, shortly after TICA's inception in 1982 – An F1 previously shown in ACFA
- 1986 Jean Mill registered 33 "Leopardettes" of her breeding with TICA
- Bengals showed in NBC for five years
- 1991 Brown Spotted Bengals become championship
- 1993 Marble pattern and Seal Lynx Point, Seal Mink & Seal Sepia colors were granted Championship
- #1 in registrations, #1 exhibitions since 1992
- More Bengals registered than all but 5 breeds combined (2016 Board Agenda)
- •NO Bengal has EVER been the registry's BEST Cat, Kitten or Alter
- Jean Mill credits TICA as providing the forum for validating the breed's legitimacy internationally.
- TICA took the Bengal to the world
- •How can TICA registration, TICA show and TICA Memberships help the Bengal Cat Community breed BETTER Bengals?









What will a Show Quality look like in the future...

based on selection, finals and acceptances now? How can we make the Bengal Cat better?





















