Long eared Equine



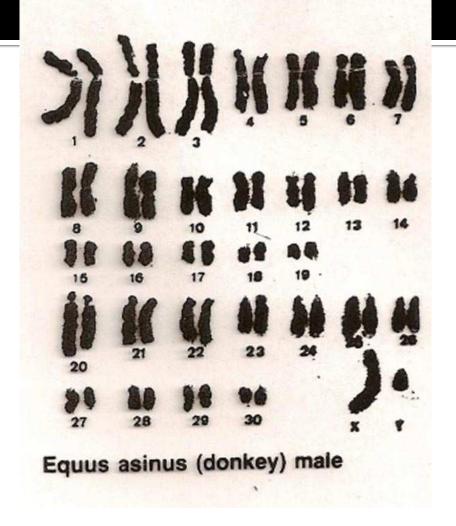
Amy K. McLean, PhD NCSU Animal Science January 17, 2014

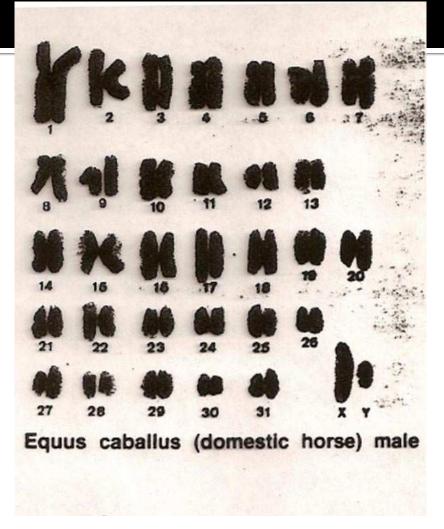
What do you a call a horse with big ears?

- Donkey (Equus asinus)
- Mule
- Hinny



Donkey vs. Horse





31 Chromosomes

32 Chromosomes

Ears are Everywhere!

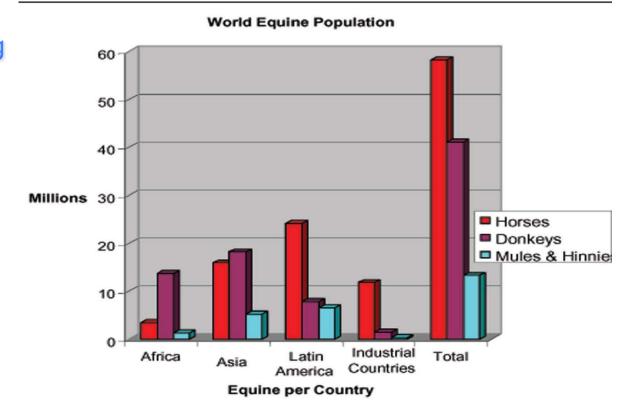


Worldwide there are approximately

- 55 million horses
- 44 million donkeys
- 13 million mules and hinnys
- Total 57 million equine with longears!

Introduction - To donkeys & mules

 > 90% are working animals in developing regions of the world



FAO Statistics, 2002

Uses: Work







Longear Lingo

- Female donkey
 - Jenny or Jennet
- Male donkey (not castrated)
 - Jack
- Male donkey (castrated)
 - a cut jack or gelding
- Female mule/hinny
 - mare mule or molly
- Male mule/hinny
 - horse mule or john



Species Specifics-

- What's a mule?
 - A cross between a donkey and a horse
- Dam, or mother, is a mare (female horse, Equus callabus)
- Sire, or father, is a Jack (male donkey, Equus αsinus)







The opposite of a mule



+





Is a Hinny!

Hinny Facts

- A hinny is a cross between a stallion horse (Equus cabullus) and a female donkey (Equus asinus).
- Many Hinny Fallacies



Longeared Breeds



- Asses, Mules, and Hinnies
 - Wild Asses
 - Domestic Donkeys (miniatures, standards, mammoths, some purebreeds)- Equus asinus
 - Mule (Sire-donkey, jack, and dam- horse (mare)
 - Hinny (Sire-horse, stallion, and dam-donkey (jenny)

Longeared Breeds: Mammoth Donkeys



Jack – 56" and up



Jenny- 54" and up

Longeared Breeds: Standard Donkeys



Large- 48"- 54"

Longeared Breeds: Miniature Donkeys



36" and under

Longeared Breeds: Purebred Donkeys



Baudette Poitou



Zamora



Martina Franca



Ragusano



Miranda



Paso

Longeared Breeds: Purebred Donkeys



Andalusian



Catalonia

Longeared Breeds- Mules



Gaited English Stock



Miniatures

Longeared Breeds- Hinnies







And still other equids...



Zorse



Zeedonk



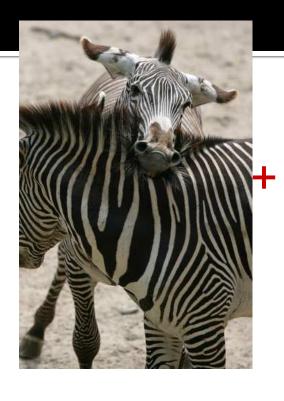
zony

Other longears

Zebra stallion + Jenny = Zedonk



Other Longears





= Zorse



Donkey Uses: Work/Traction









Donkey Uses: Companion & Show





Donkey Uses: Dairy/Meat Production



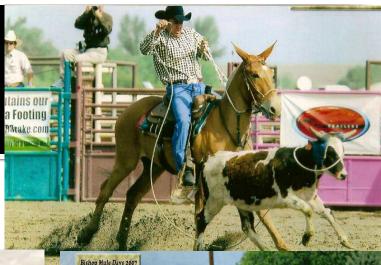


















First Cloned Equine



Was a Mule!

Body Condition Scoring

- Donkeys can be scored using the Donkey Sanctuary System from 1-5, 1 being thin and 5 being obese
- Mules a little bit harder due to their various genetic backgrounds and conformation

Use the Henneke Scale of 1-9 with caution and compare to

the Donkey Scale

Body Condition Scoring Donkeys







#1= Thin

#2= Moderate

#3= Ideal





Body Condition Scoring Mules











Specie Differences

DONKEY

- Normal temperature for a donkey 98.6°F (lower than a horse)
- Heart Rate ~ 48 bpm
- Respiration ~ 21 breathes/min



MULE

- Normal temperature for a mule similar to that of a horse 99.18
- Respiration 34 breathes/min
- McLean et al., 2013 unpublished



Anatomical Differences: Donkey vs. Mule vs. Horse





Anatomical Differences: Donkey

- Laryngeal Anatomy-difference in the vocal folds yielding the bray not a nicker/whinny
- No ergots on the hind legs and hooves are small and boxy
- Teats are found on the sheath of male donkeys
- Thicker Cutaneous coli muscle
- Donkeys have less prominent withers but a more prominent sternum



Anatomical Differences: Donkey



Anatomical Differences: Mule

- Combined traits of the sire and dam
- Longer ears, vocalization similar to a donkey
- Some may have more prominent withers
- Head is some times larger than a horse but not as large at the donkey
- Typically find ergots on the hind limbs
- Finding tack that fits appropriately can be difficult
- Tend to prefer being turned out vs. stalled



Anatomical Differences: Mule

Rack the donkey its not uncommon for fat pones to develop on a moderate body conditioned animal in the hind ribs, crest of the neck or tail head

