

Black-Tailed Deer of the Central Coast

9.13.18



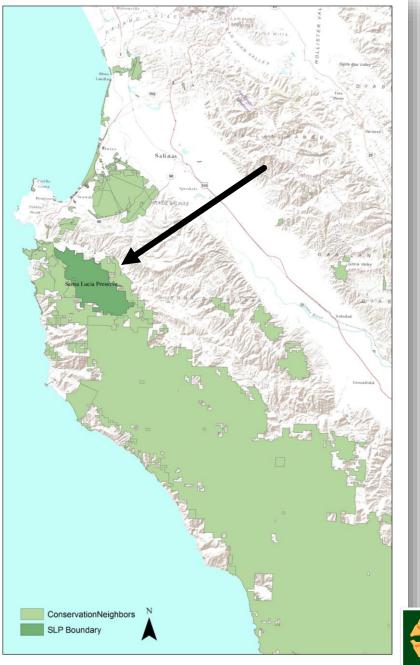


Living With Wildlife



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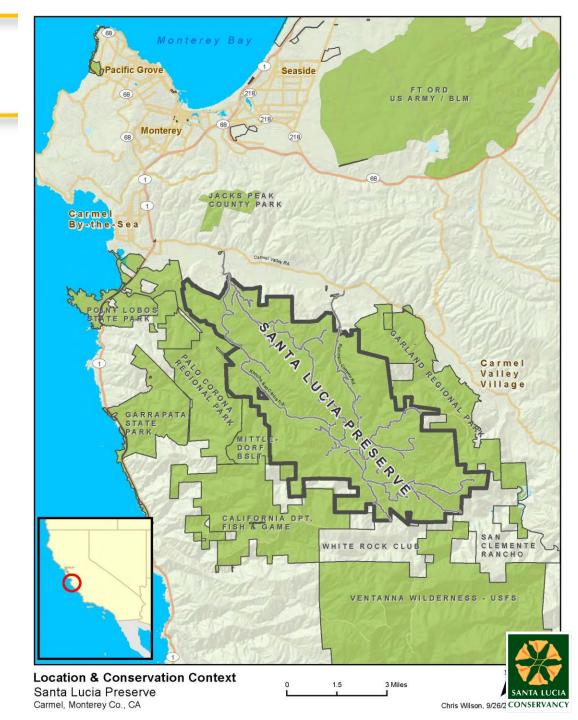




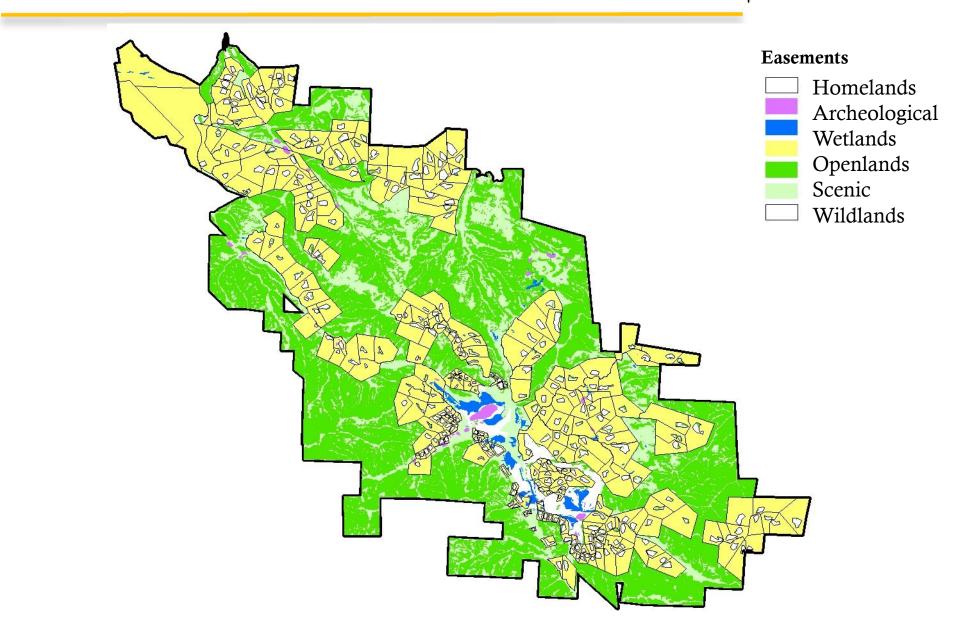


Santa Lucía Preserve

- Conservation Development
- 90% permanently protected
- Natural Setting
 - 18,000 acres
 - Historic cattle ranch
 - Hígh bíodíversíty
- · Human Setting
 - 2,000 acres
 - 296 home sites
 - Social club and golf course



Protected Landscape



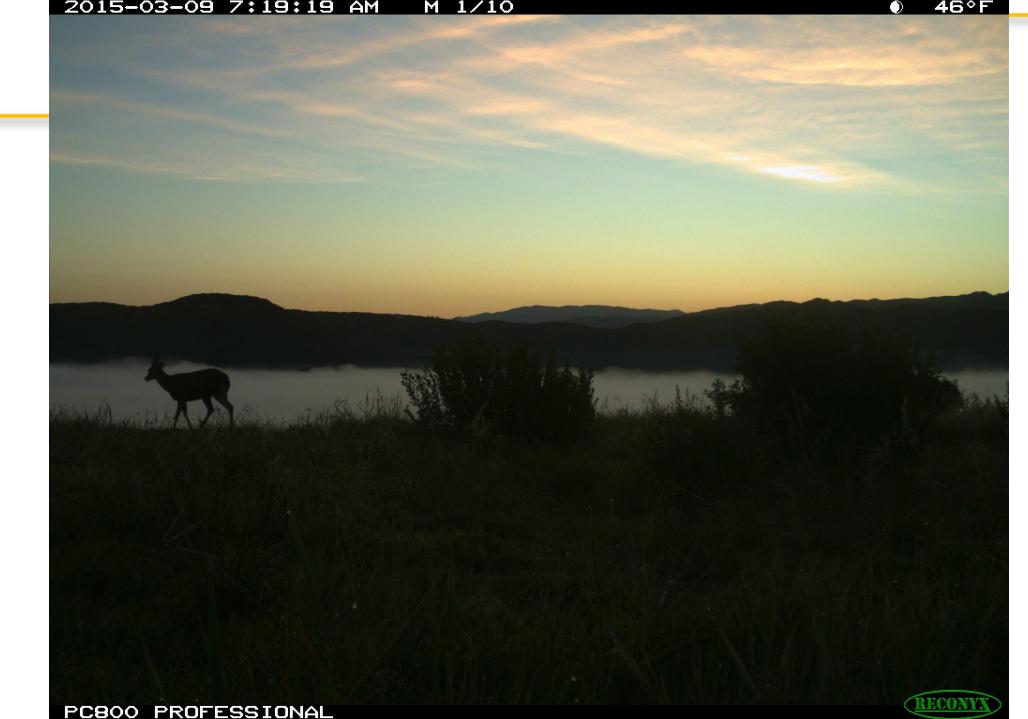


Santa Lucía Conservancy

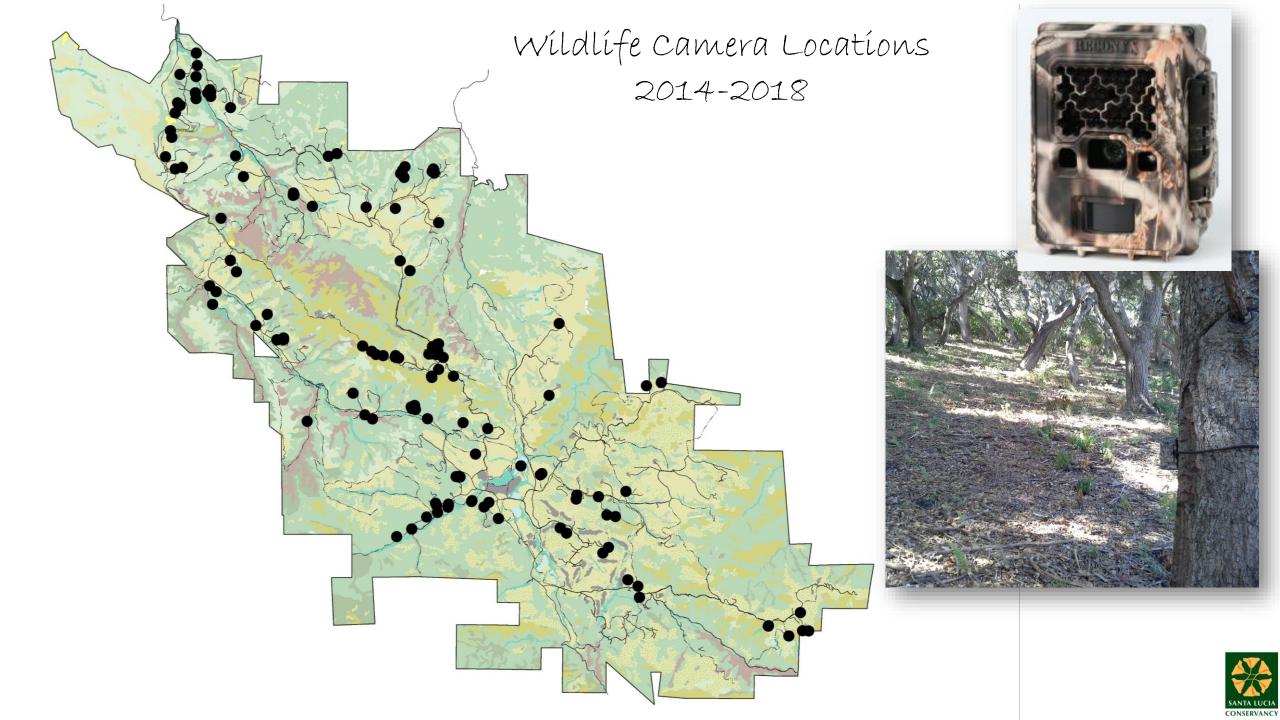
- ♦ 501(c)(3) Non-Profit
- ♦Incorporated in 1995
- ♦ Land trust to hold and steward easements
- Science-based land management
- ♦ Ecologícal research
- ♦ Environmental education



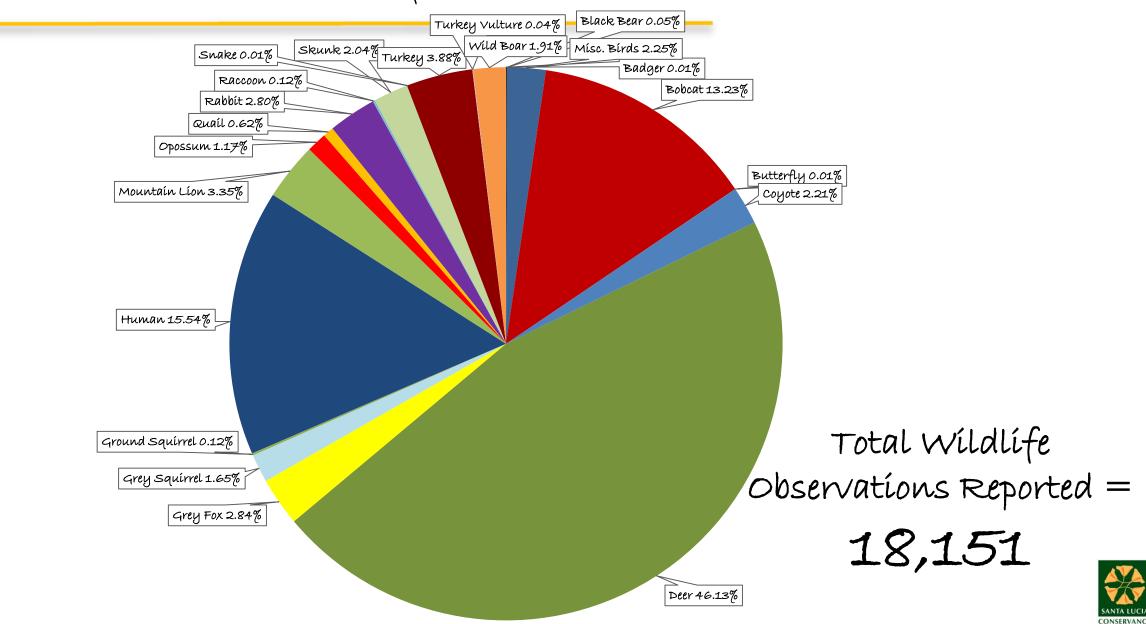




SANTA LUCIA CONSERVANCY



Wildlife Observations







9 Species of Deer in California

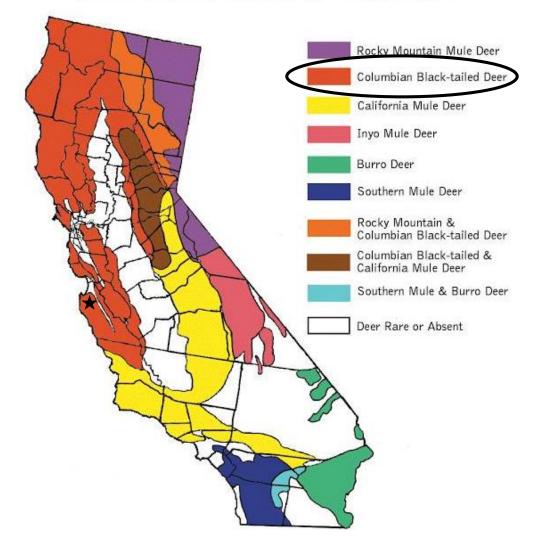
Deer Distribution in California





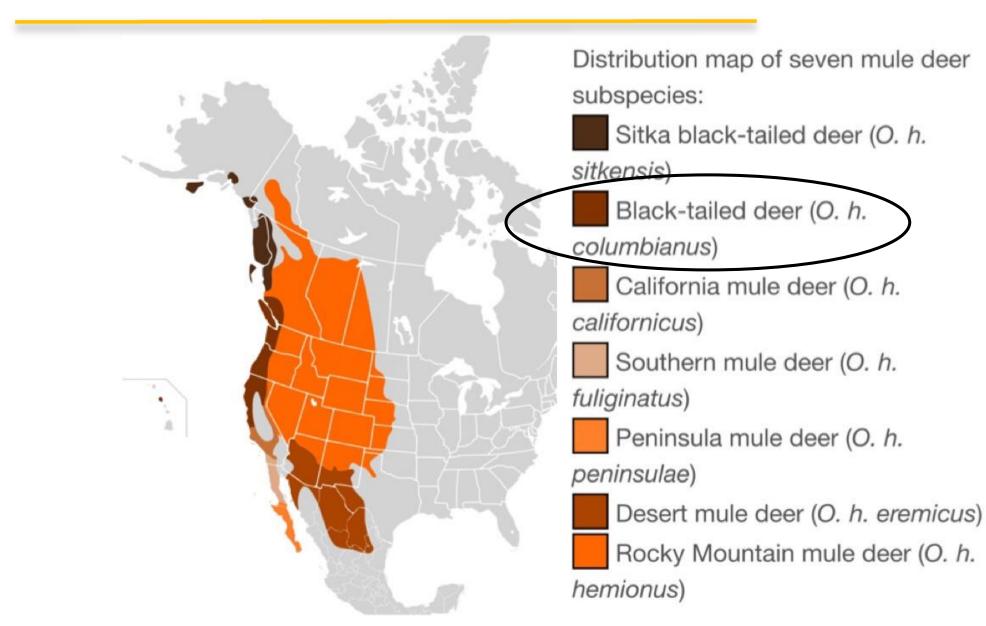
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Deer Distribution in California



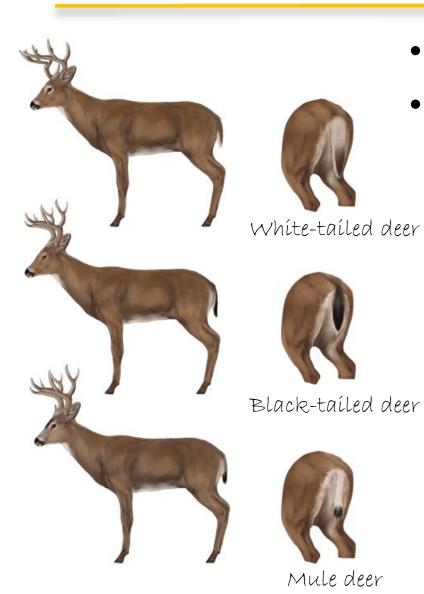


Columbia black-tailed deer





Columbia black-tailed deer

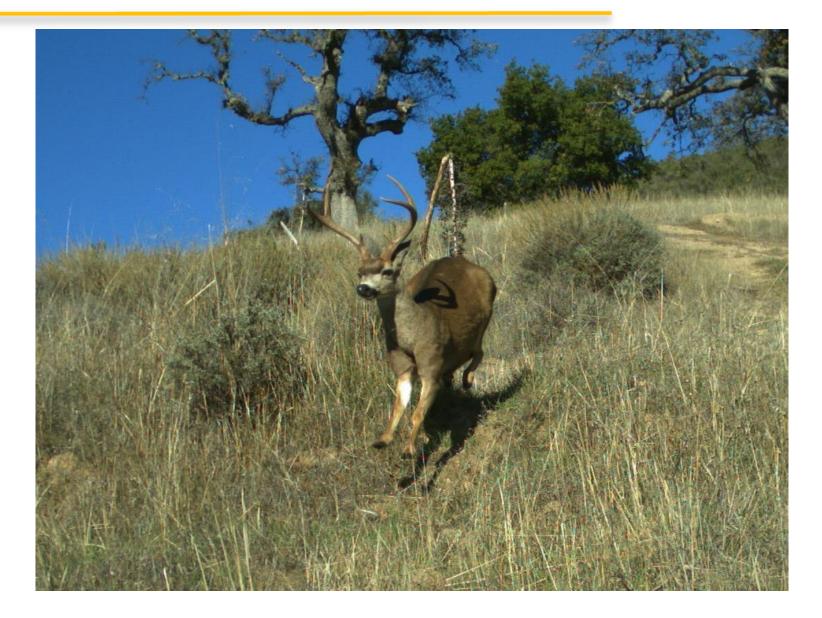


- Odocoíleus hemíonus columbíanus
- Sub species of mule deer



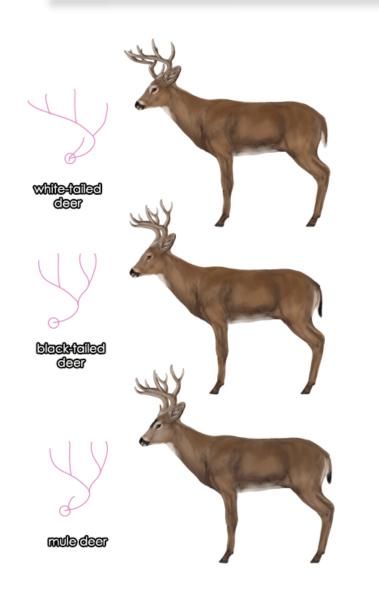


Stotting





Antlers





Body Indicators



• 130-200 lbs

• Smaller than mule deer





























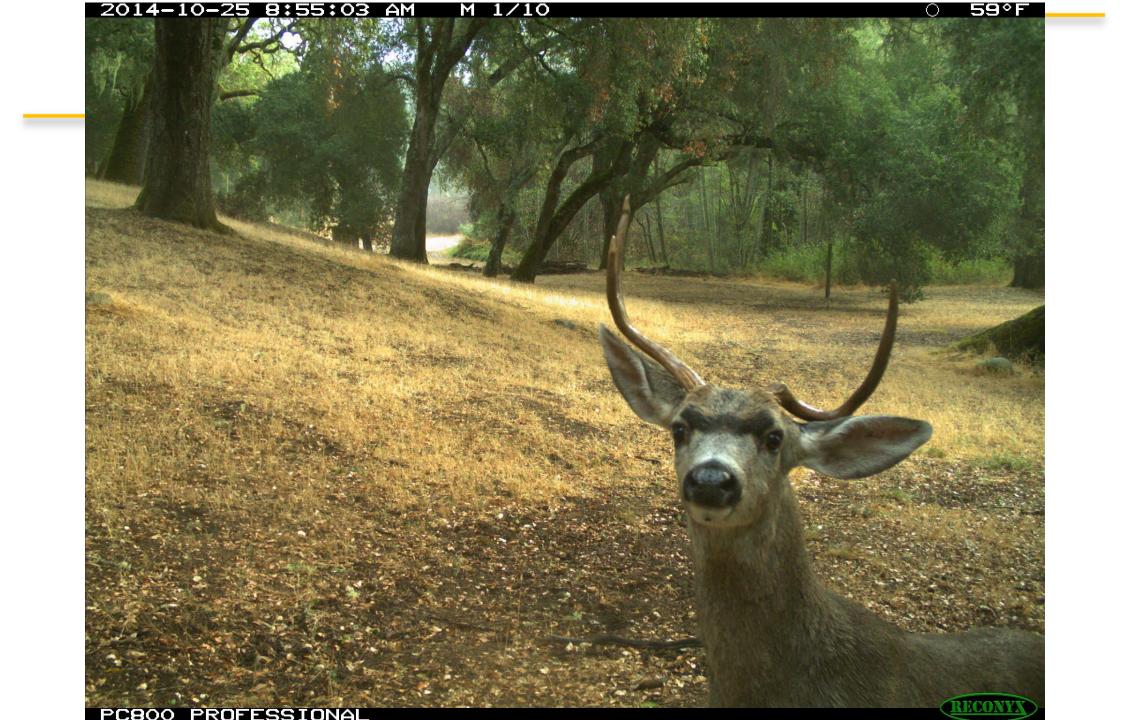














Longevity

- 9-10 years
 - Depends on weather, habitat quality, predation and hunting pressure
- Average
 - 2.5 years for males
 - 3.2 years for females
- Oldest on record 22 years



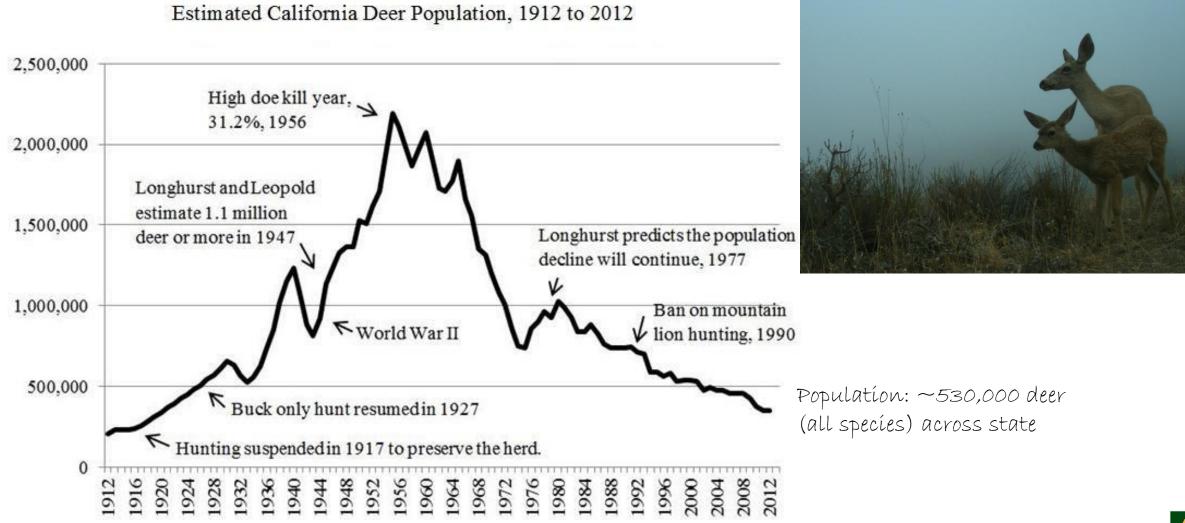


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Population Trends





Breeding



- Seasonal Breeders
- Rut: August-October
- Tríggered by photoperíod > íncrease ín testosterone
- Very energy intensive and often results in injury
 - Can lose 20%
- After rut bucks hide, rest and regain weight
- Antlers are shed after rut (Dec-Feb)















Reproduction



• Breed at 1.5 years

- Maximizing Mate Strategies
 - Sít and waít
 - Excursíon
- Conception rate is 90-95%
- Gestation 6-7 months
- Typícal fawning locally in March
- Average is 2 fawns at a time
 - Can have 1-3
 - Will adopt orphans
 - Multiple sires











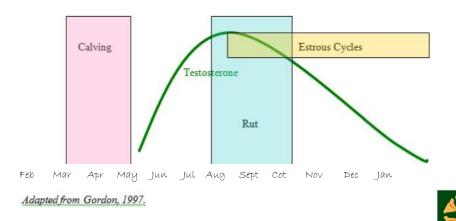




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- Fawns are 6-8lbs at birth and no scent for first week
- Stay still for hours in grasslands waiting for mother to return
- Does are very protective
- Fawn mortality is 45-70%







communication

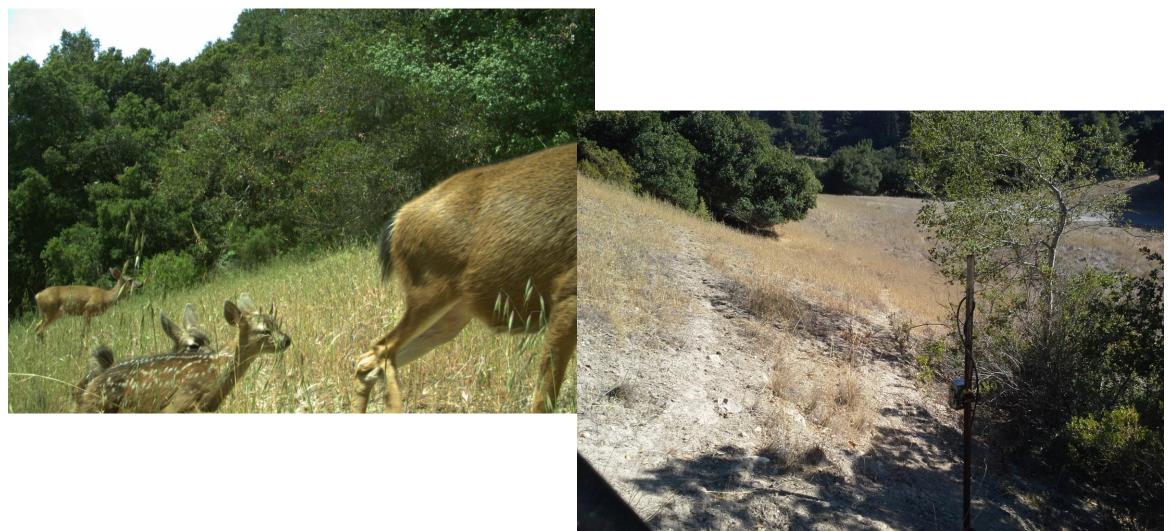


• Communication:

- Fawns bleat; males grunt; both sexes snort in alarm
- Pheromone communication:
 - metatarsal outsíde lower leg, alarm scent
 - Tarsal ínsíde leg, mutual recognítíon
 - Lachrymal eye gland, terrítoríal markíng by males
 - Interdígítal between toes, traíl scent



Communication









Activity

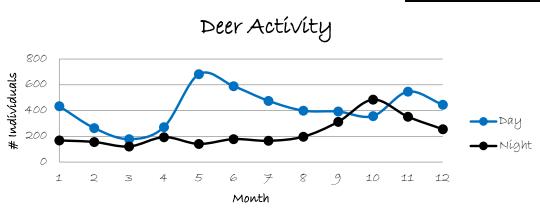
- Not a herding species associate in small groups of 3-6
 Equal as travel in small (amilus and)
 - Females travel in small family groups with oldest female typically the alpha
 - Fawns stay with mother for first year
 - Males spend time in bachelor groups with dominance structure until the rut, then solo
 - No harem structure during breeding season







Activity

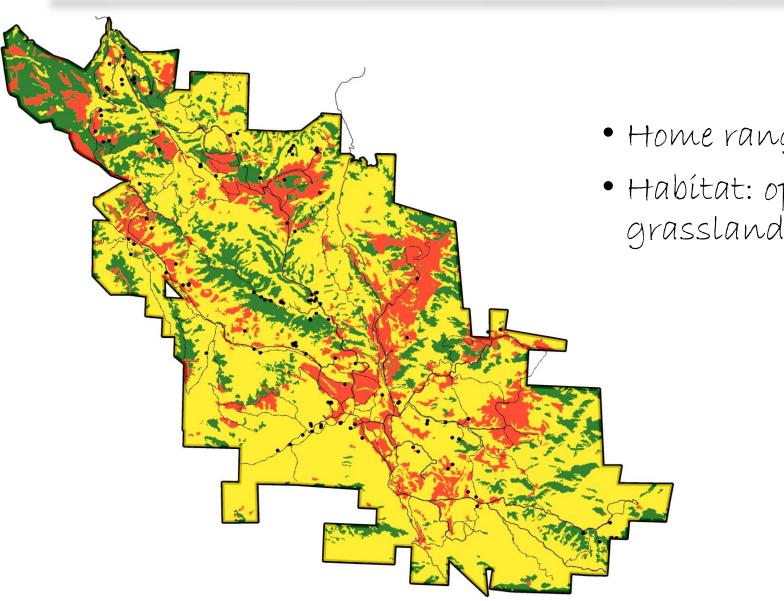




SANTA LUCIA

CONSERVANCY

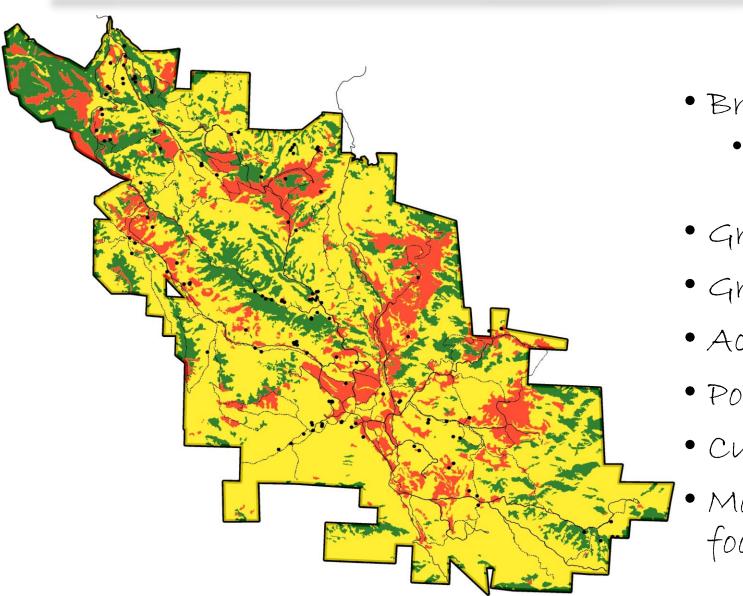
Territory & Movements



- Home range: 90-600 acres
- Habítat: open forests and grasslands



Diet

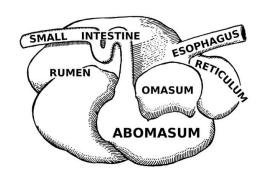


- Browsers glean
 - As opposed to grazers that clip at ground level
- Growing tips of shrubs and trees
- Grass, clover herbaceous plants
- Acorns, lichen, fungi, berries...
- Poíson oak
- Cultivated plants
- Most of their water comes from food



Ruminant

- Four chambered stomach
 - Rumen -> retículum -> omasum -> abomasum
- Mícrobes and fermentation
 = sugars and proteín
- Bed down and chew cud
- Regurgitate more than once in digesting food
- Diverse diet helps digestion













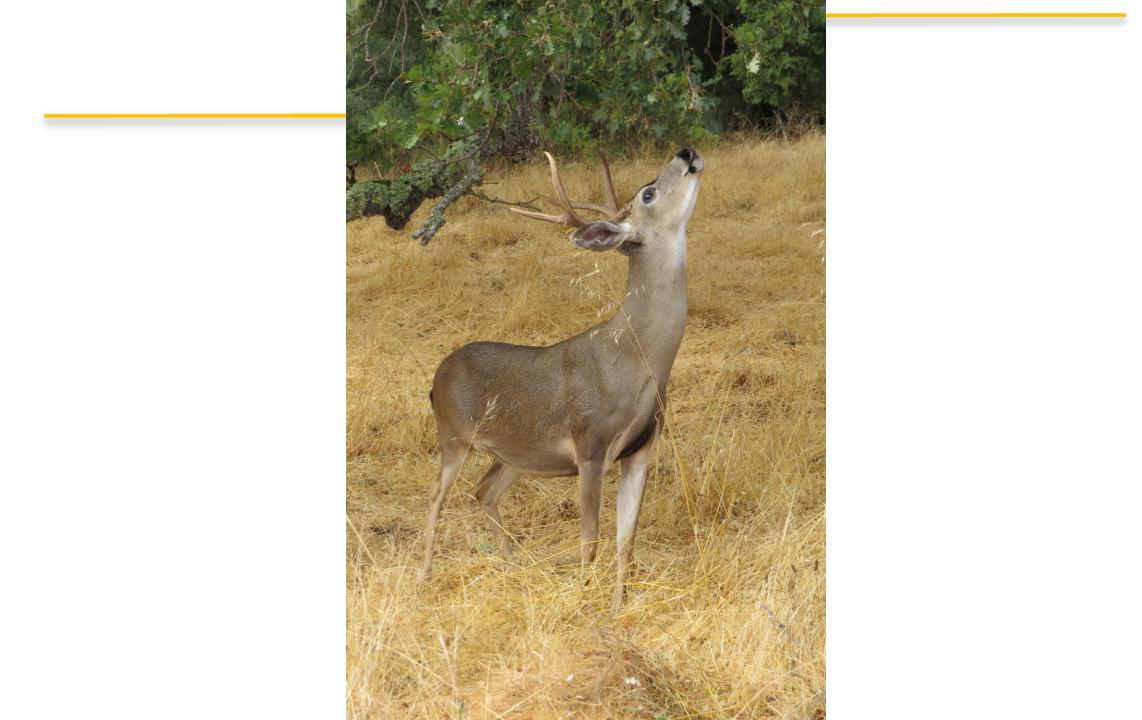










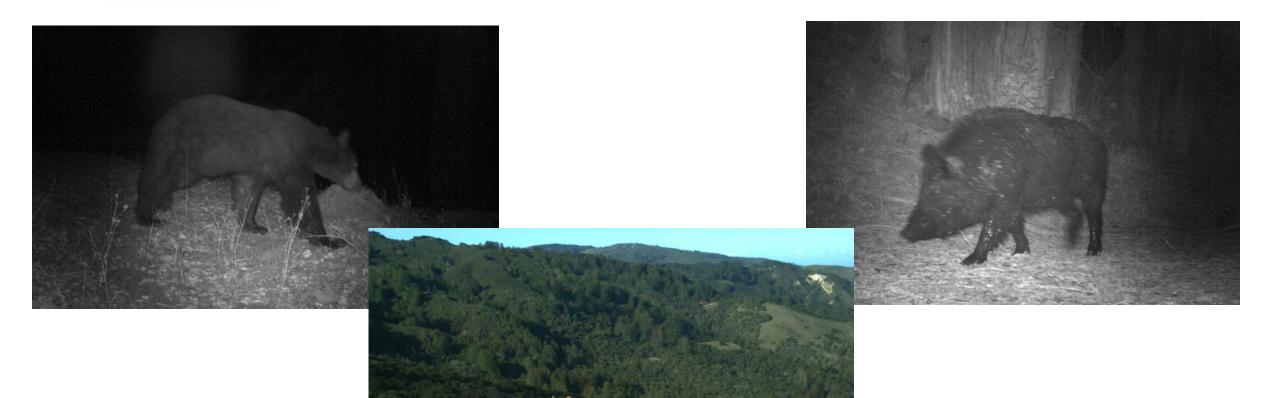








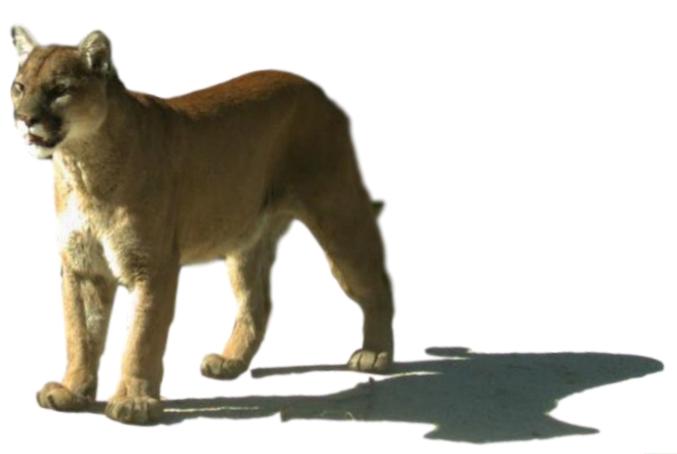
Predator: Prey





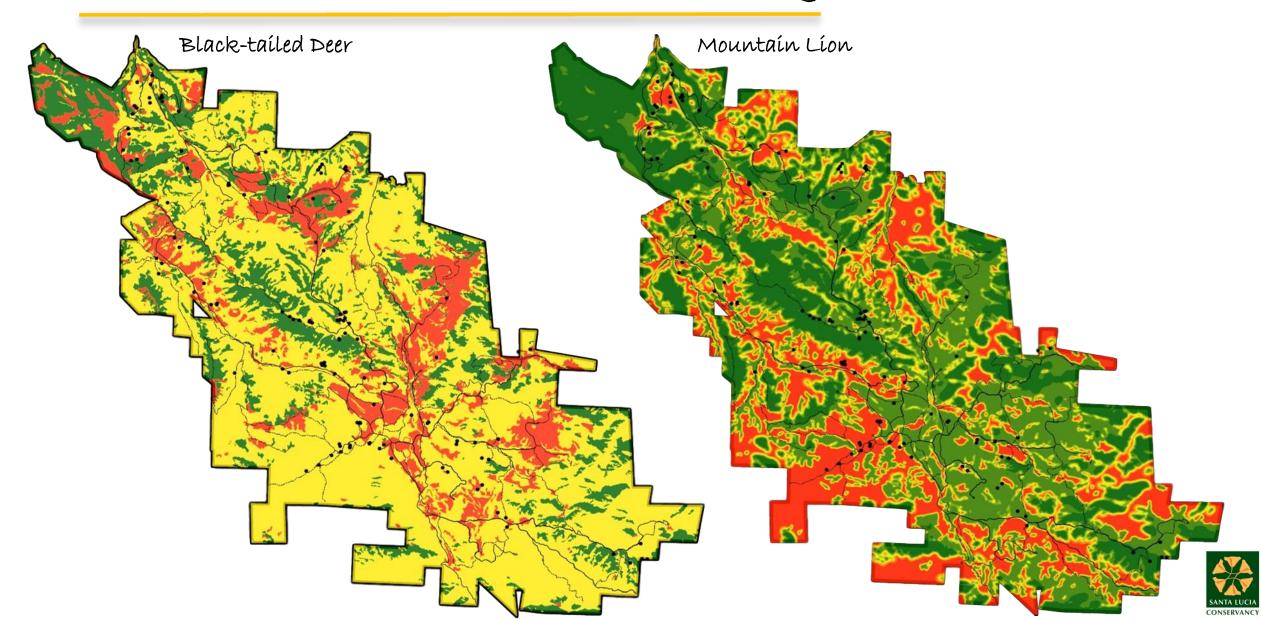
Predator: Prey

- Male
 - 1 deer 9-12 days
- Female with cubs
 - 1 deer every 4 days





Predator: Prey



Carcass Forensics





Míscellaneous

- Eyeshíne: whíte
- Vehicle collisions increase during the rut
 - Travel in groups look for additional deer





Living with Deer

- Fencing
 - 6-8' tall
 - 5.5' íf landing area is uncertain
 - Full exclusion
 - Think about travel corridors
- Repellents
 - Chemical
 - Odor or taste
 - Clove, cinnamon, eucalyptus, cayenne
- Scare tactics
 - Neophobic
 - Motion activated sprinkler
 - Motion activated lights need to move them around





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Coexístence





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