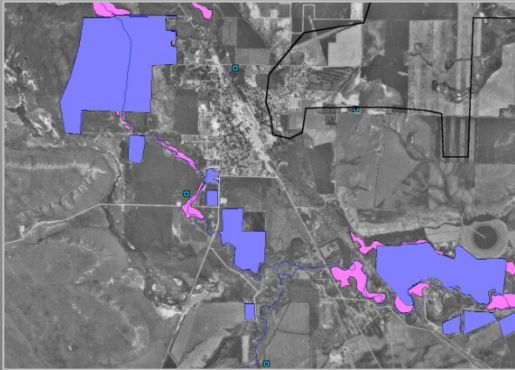


Manejo del Conflicto Oso-Ganado en Montana: Un Estudio de Caso

Un Enfoque Comunitario



Dr. Seth M. Wilson

Postdoctoral Researcher, Yale University

Research Fellow, Northern Rockies Conservation Cooperative

Wildlife Coordinator, Blackfoot Challenge

Team Member, IUCN-IBA Human-bear Conflict Specialist Group

Presentacion

El Valle de Blackfoot

El Ranchero Dos Rios

Proyectos

Resultados Preliminares

Lecciones Aprendidas

Ejemplo: Montana (pastoreo en tierras bajas)

2) Las Actividades Humanas

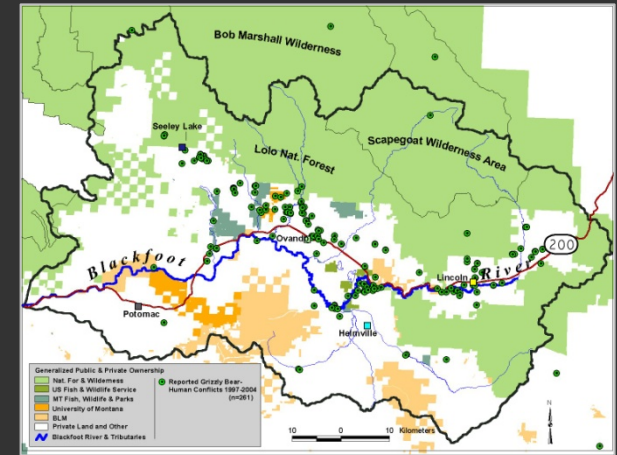
Sistema Economico
Sistemas Sociales y Culturales

Usos de la Tierra
Conductas y Practicas Humanas

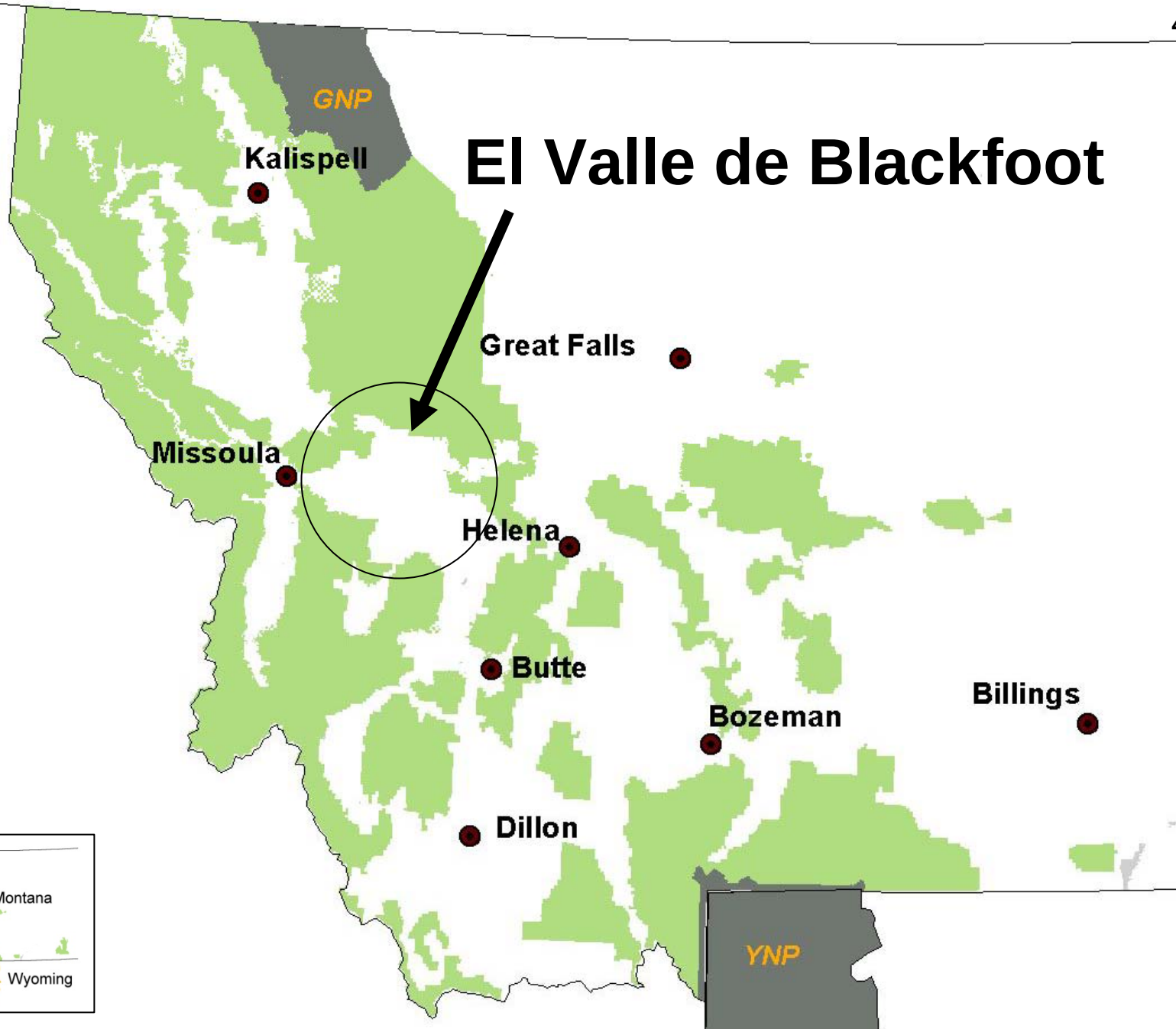
Siete factores claves para el conflicto con ganado⁶:

- 1) Distribucion
- 2) Densidad de Ganado
- 3) Raza
- 4) Salud Animal
- 5) Vigilancia
- 6) Proteccion
- 7) Otros factores atrayentes

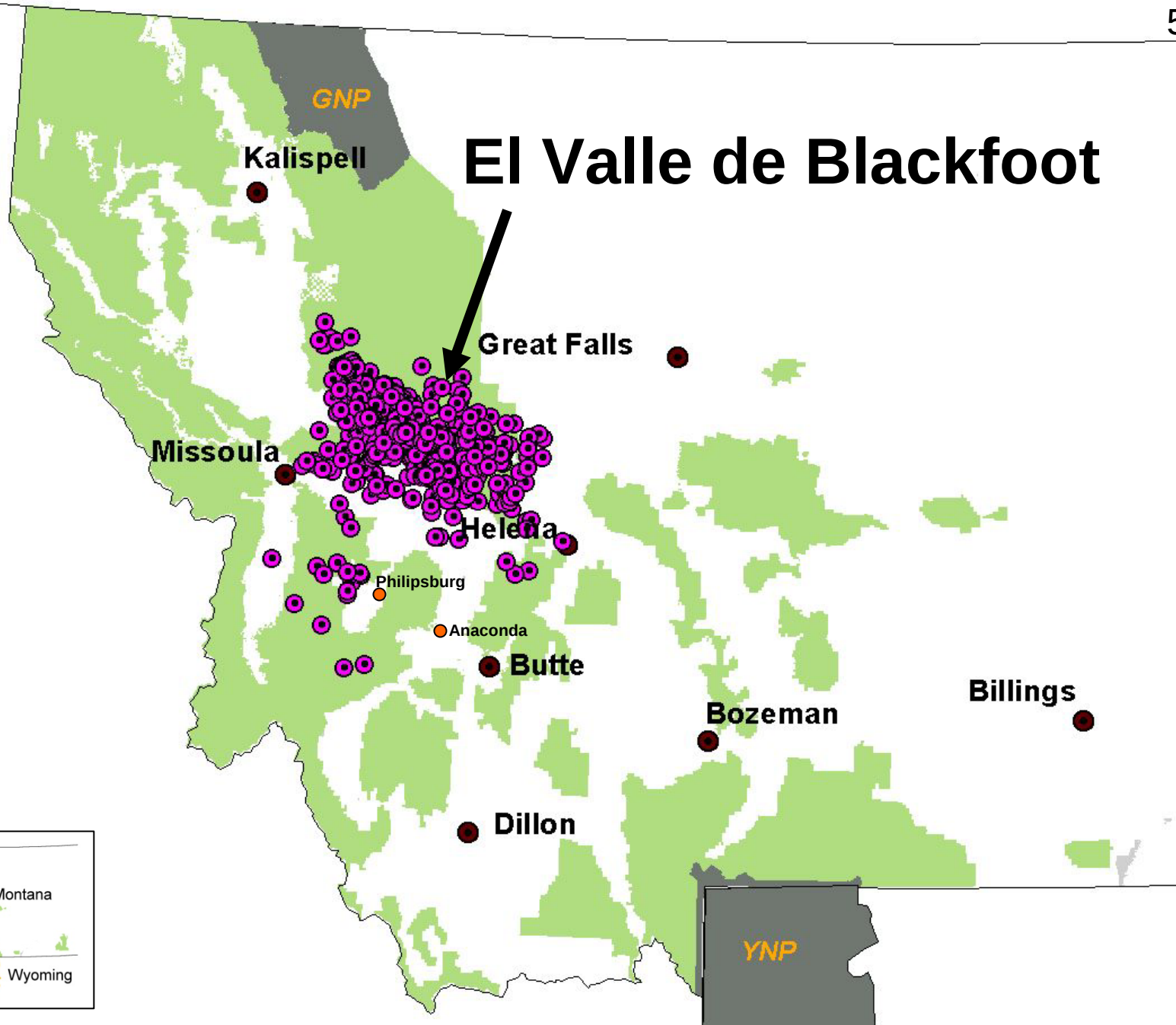
Frecuencia del conflicto en
el espacio y el tiempo



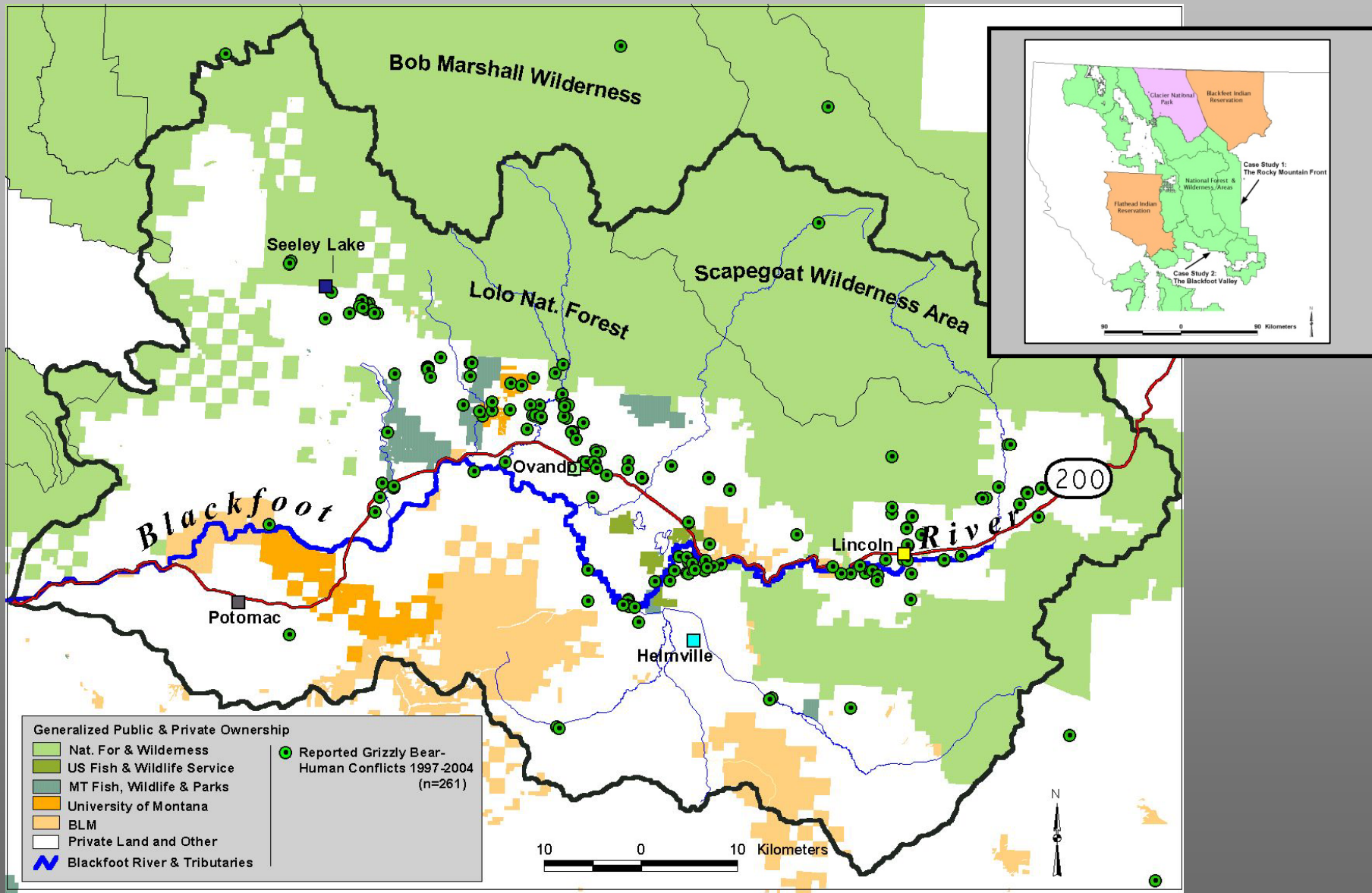
El Valle de Blackfoot

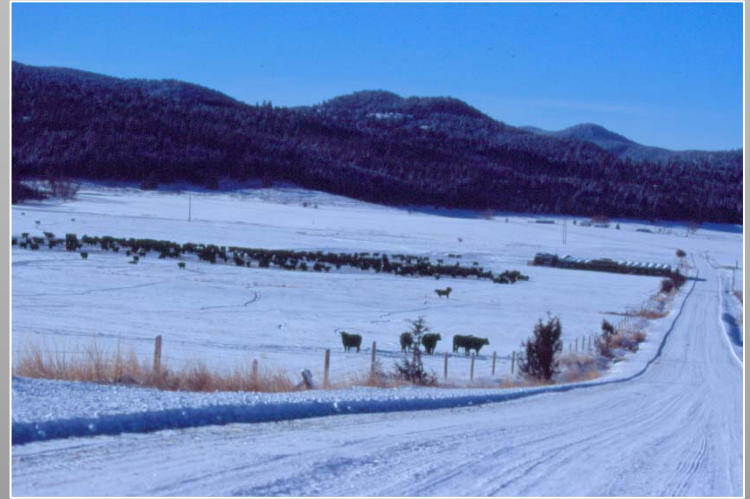


El Valle de Blackfoot



El Valle de Blackfoot









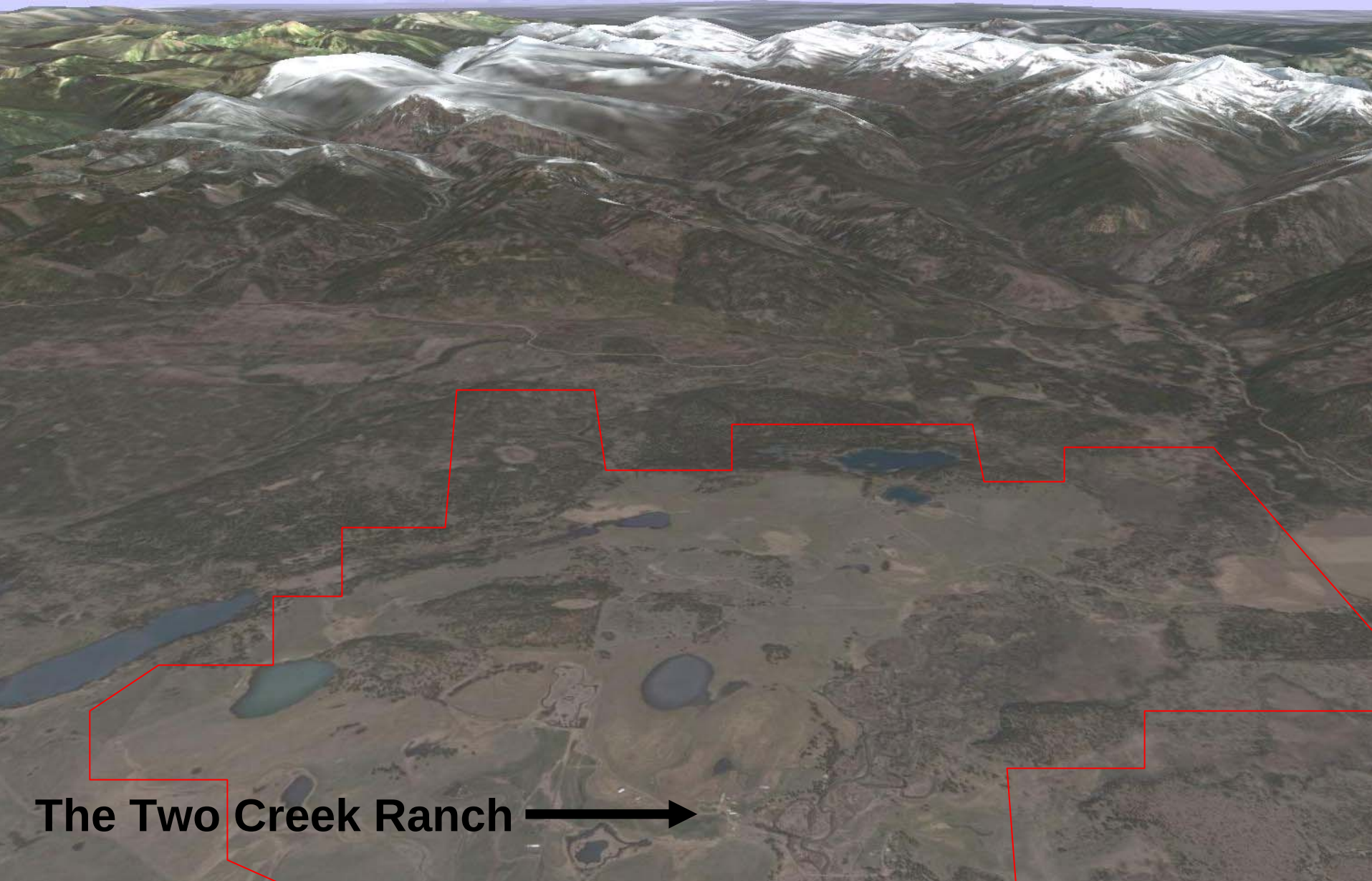






El rancho Dos Rios

13

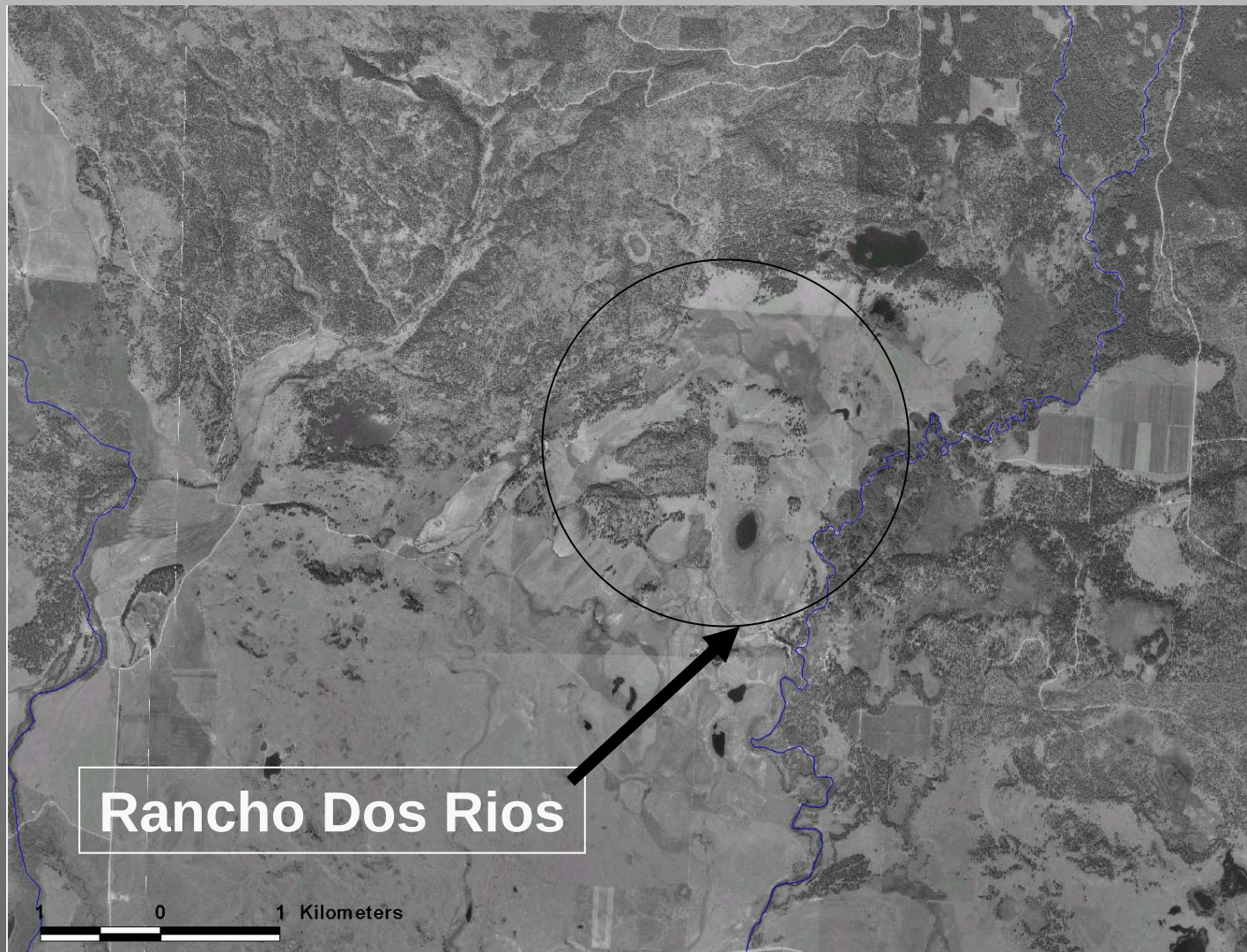


The Two Creek Ranch →

Two Creek Ranch

14

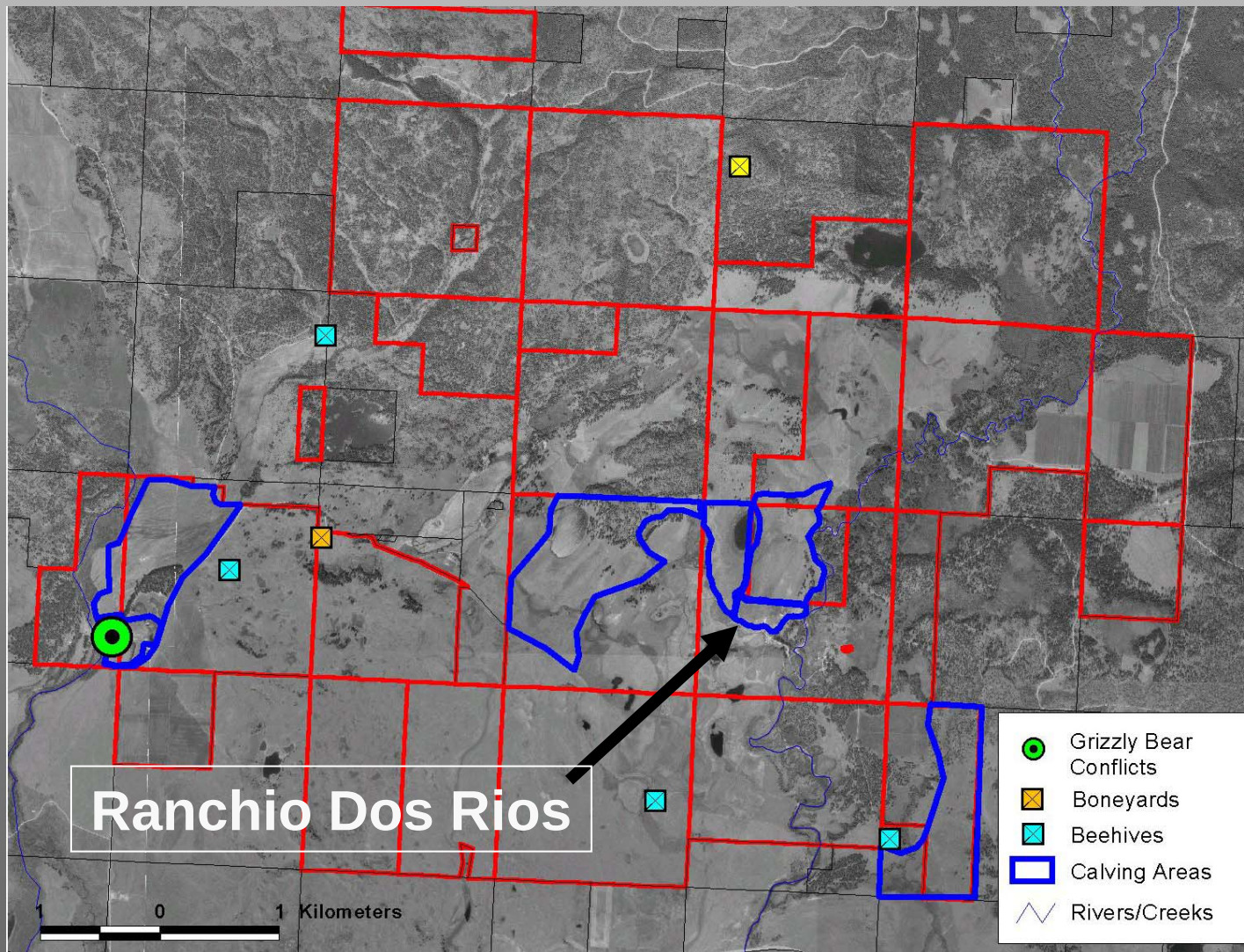
Conflicts Over Time...1998 - 2009



Rancho Dos Rios

15

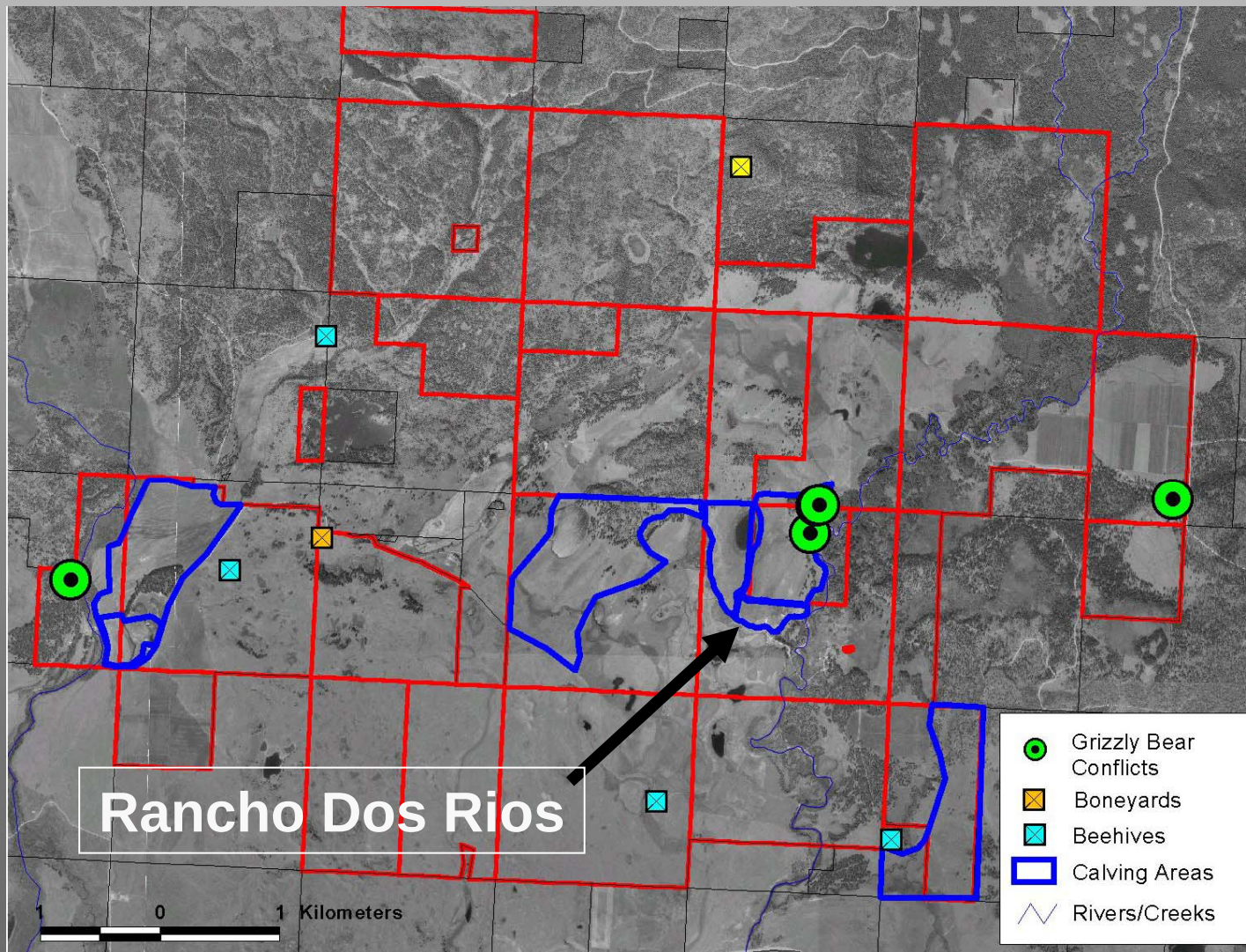
● Conflictos Oso Pardo - Gente (n=1) 1998



Rancho Dos Rios

16

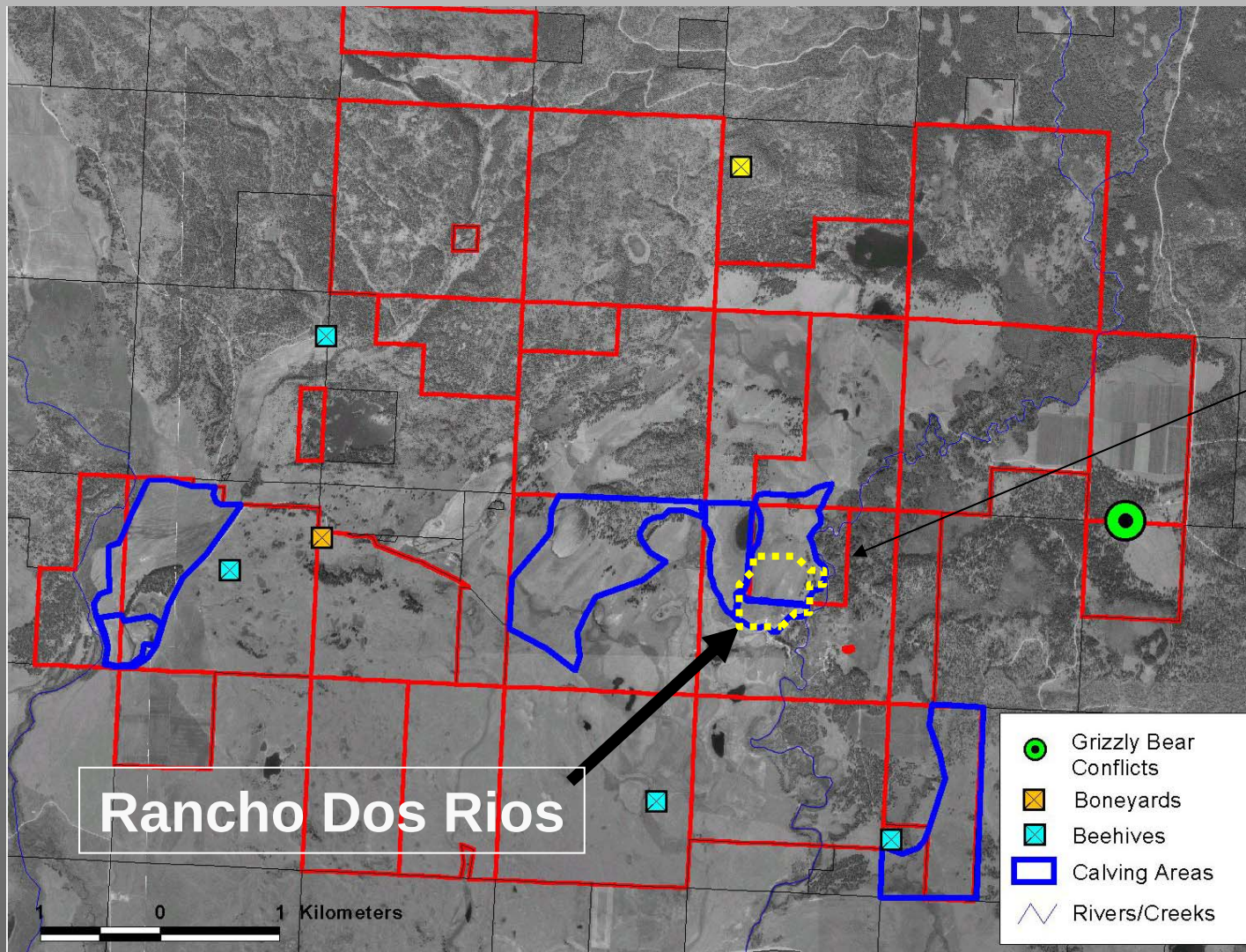
● Conflictos Oso Pardo - Gente (n=5) 1999



Rancho Dos Rios

17

● Conflictos Oso Pardo - Gente (n=1) 2000

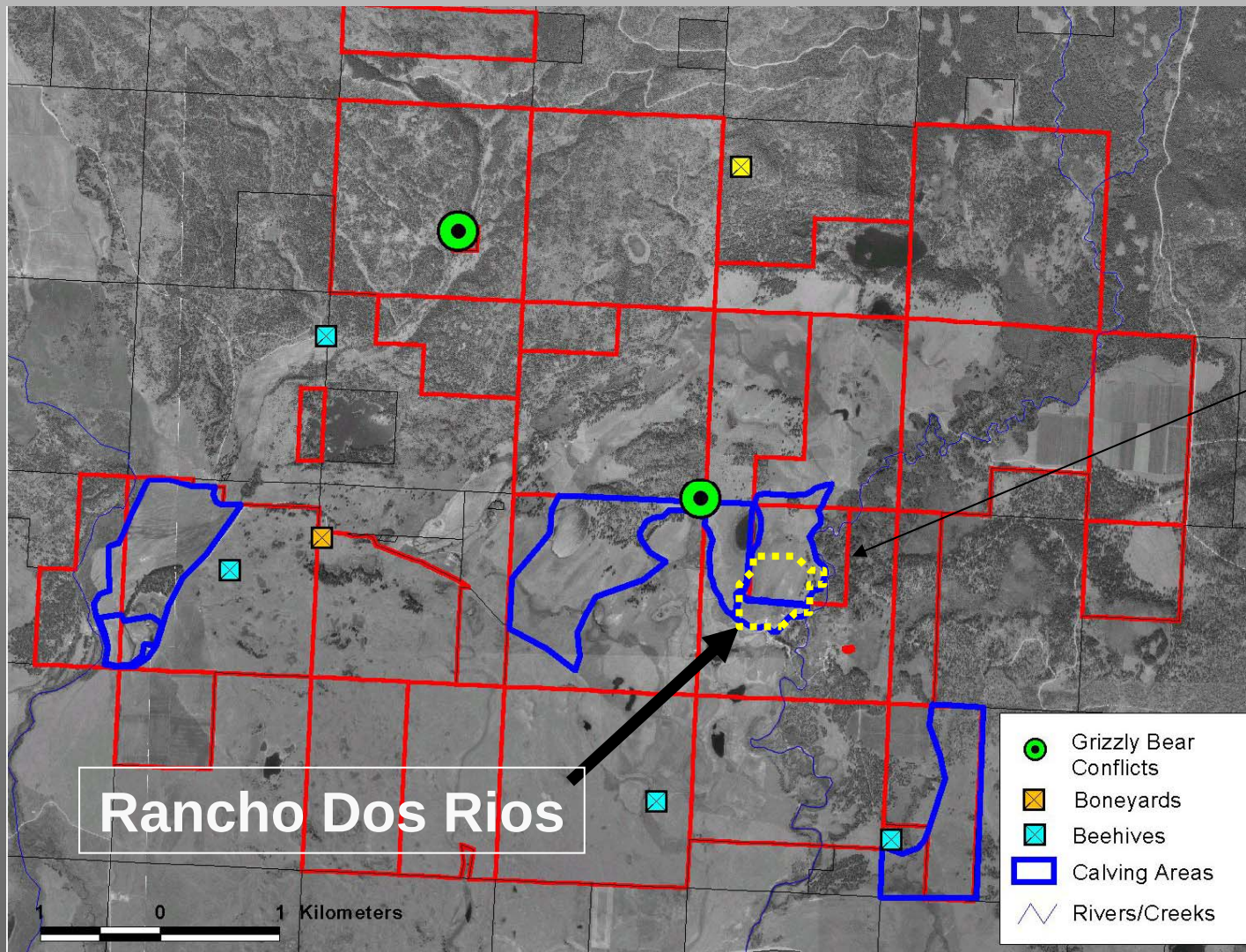


Primera
cerca
electrica para
area de
guarderia de
becerros

Rancho Dos Rios

18

● Conflictos Oso Pardo - Gente (n=2) 2001

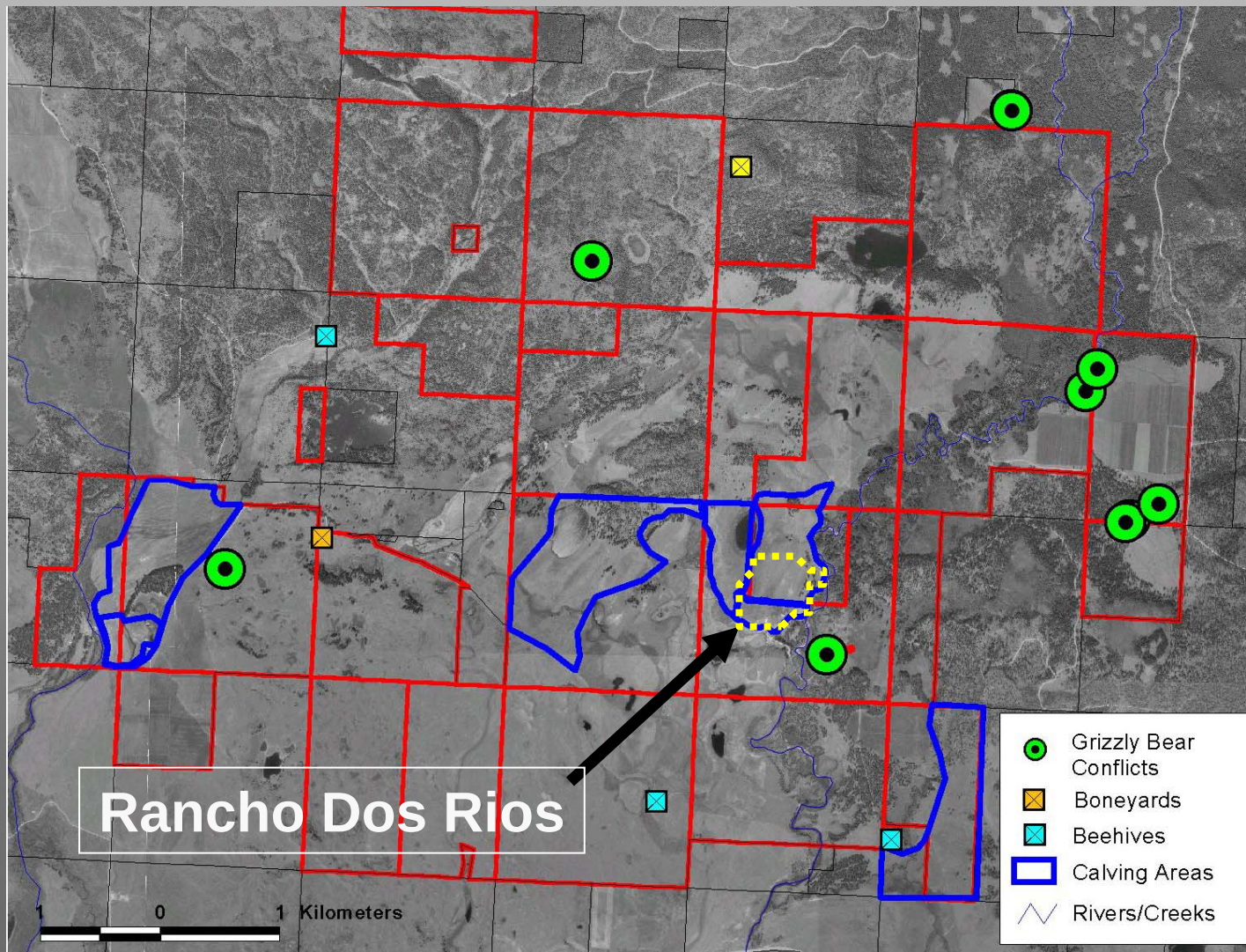


cerca
electronica

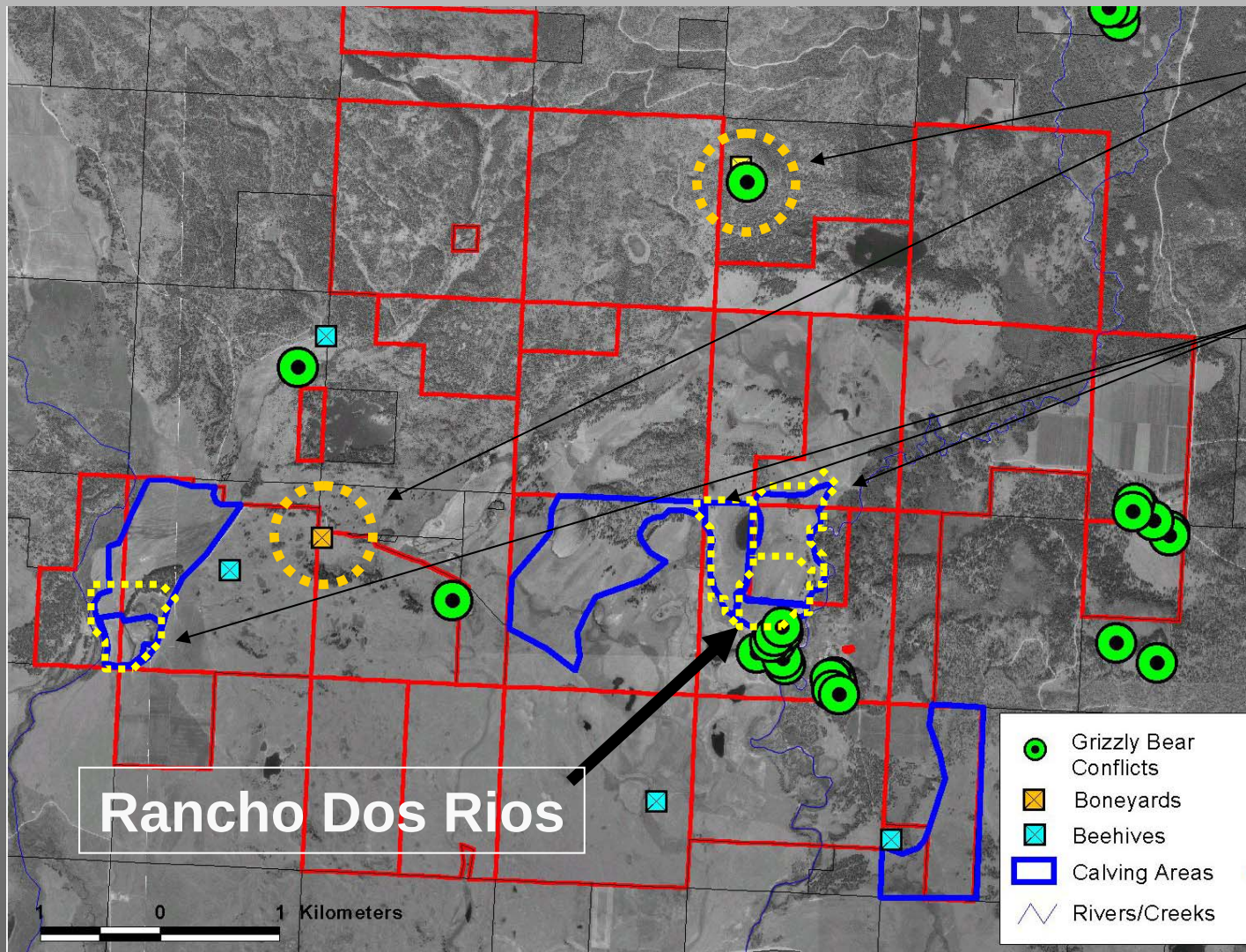
Rancho Dos Rios

19

● Conflictos Oso Pardo - Gente (n=10) 2002



● Conflictos Oso Pardo - Gente (n=24) 2003



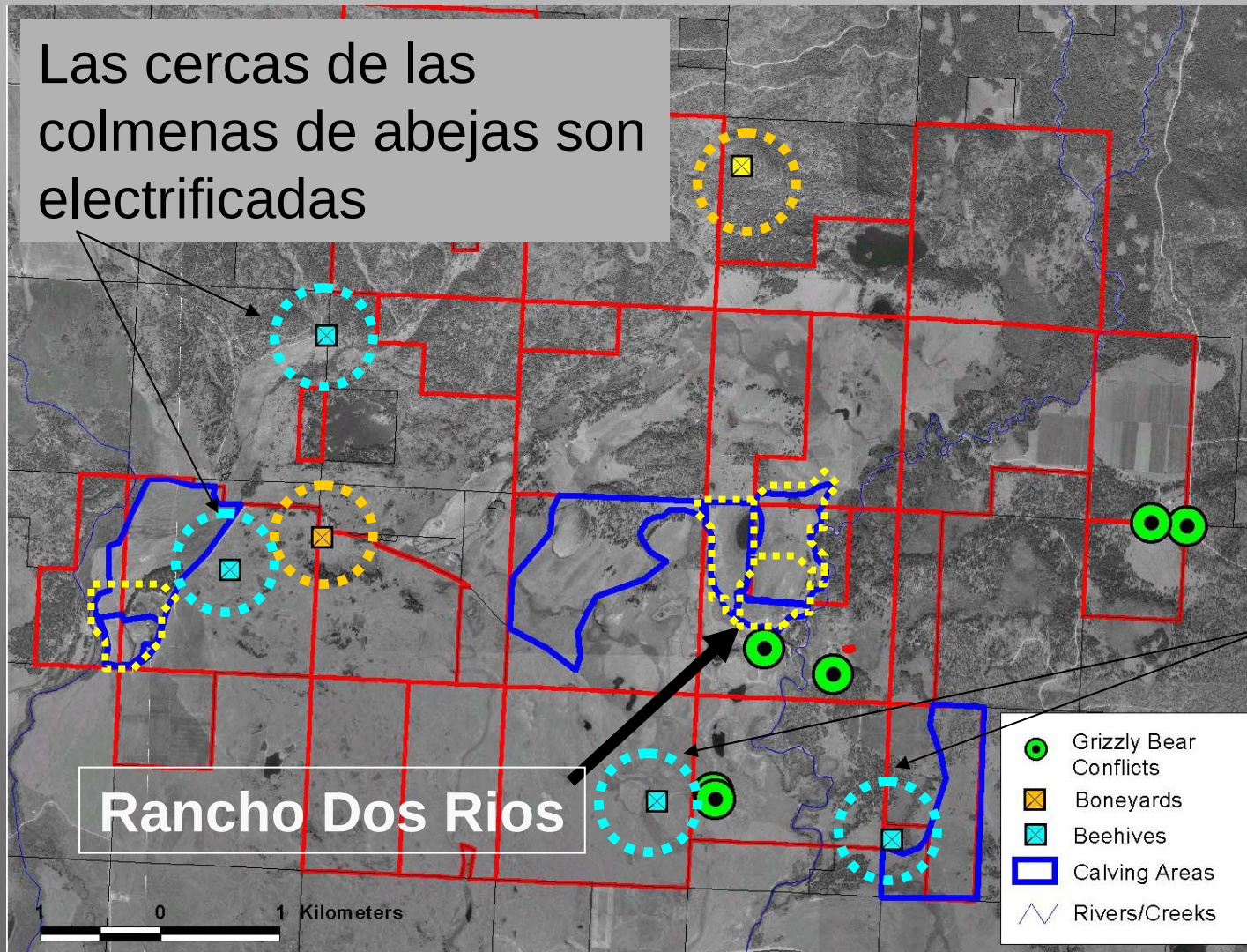
Area de
desecho de
carnazas
removidas

Cercas
electricas
son
extendidas
debido al uso
intensivo del
area por los
osos

Rancho Dos Rios

● Conflictos Oso Pardo - Gente (n=6) 2004

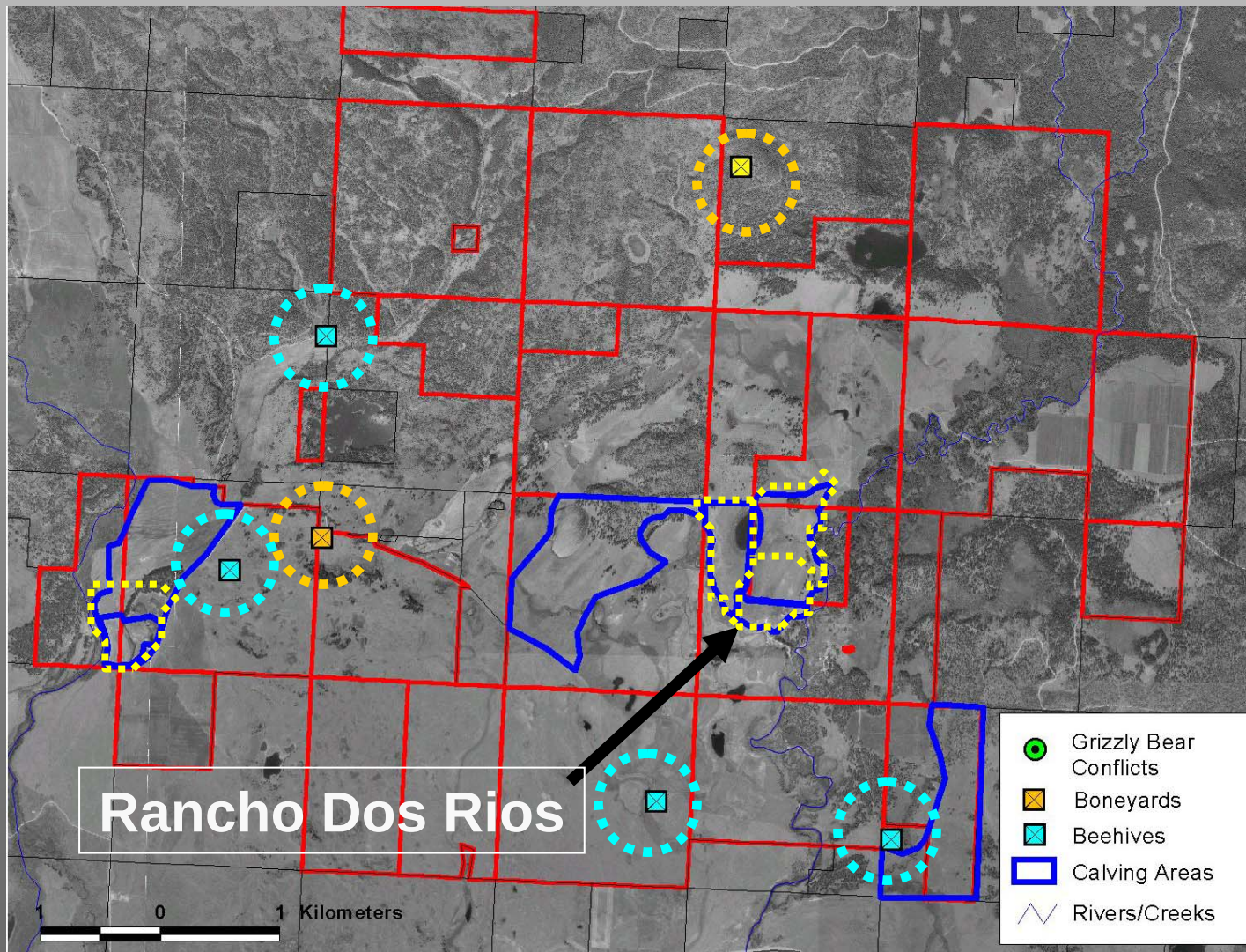
Las cercas de las colmenas de abejas son electrificadas



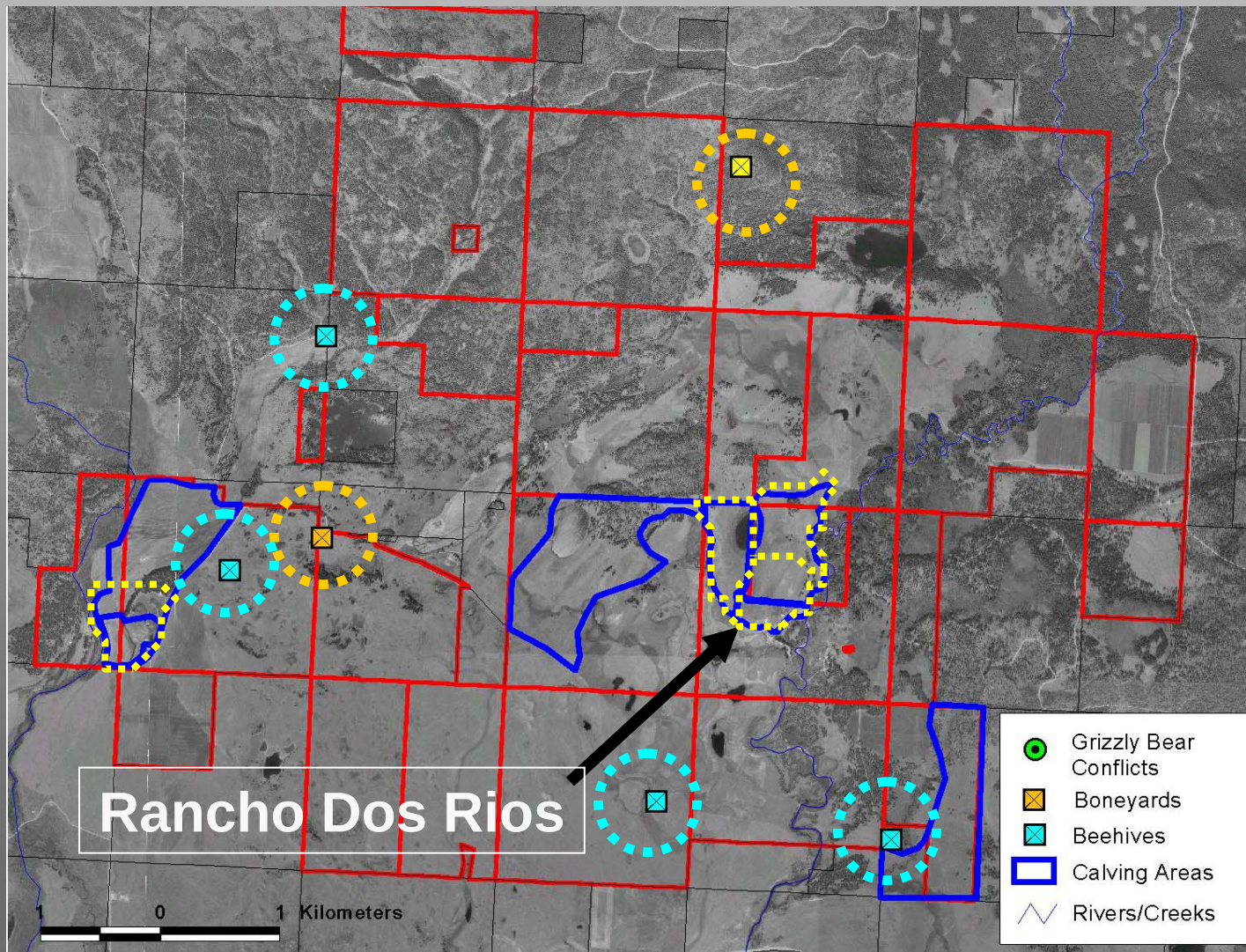
Rancho Dos Rios

Las cercas de las colmenas electrificadas y mejoradas

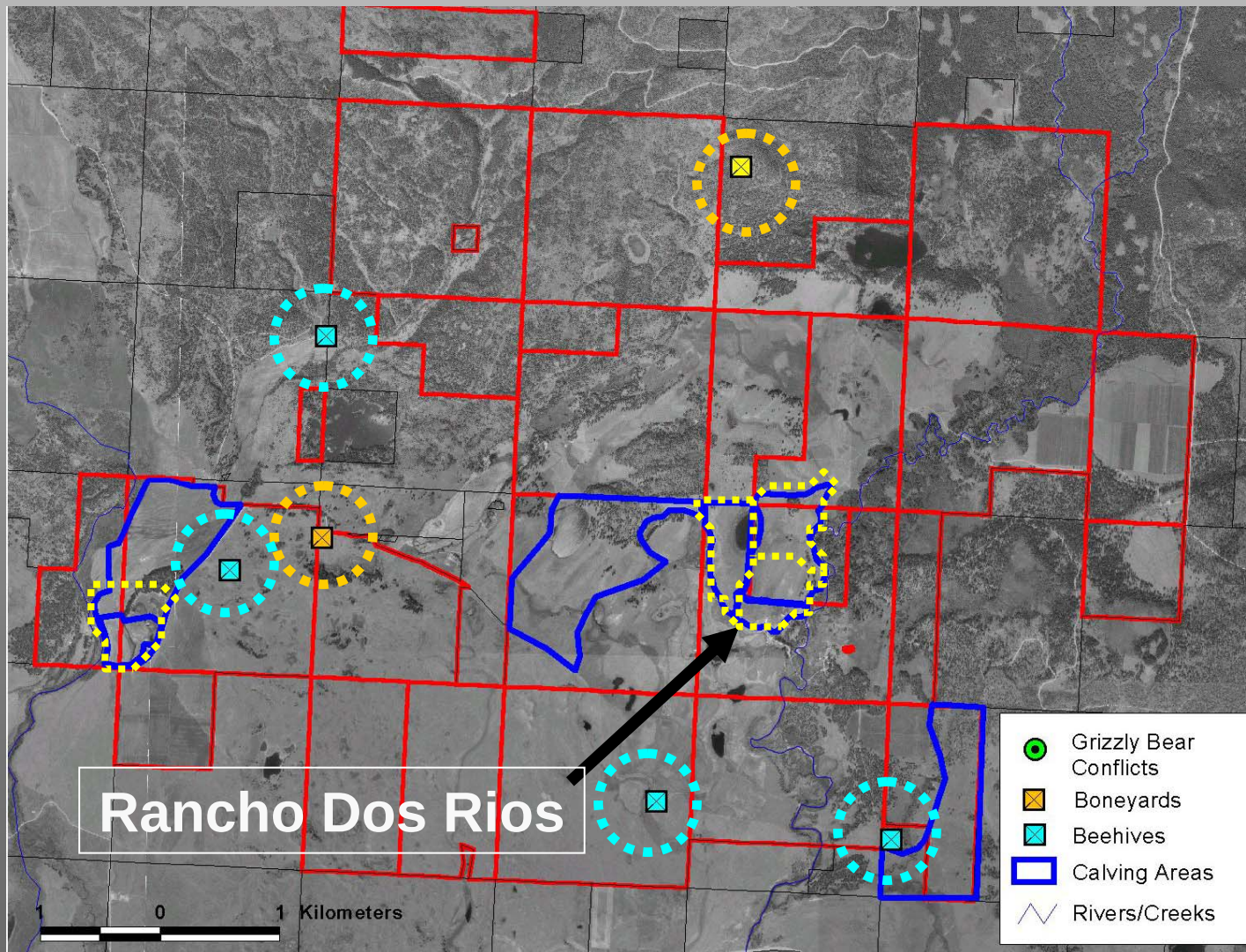
CERO Conflictos en 2005



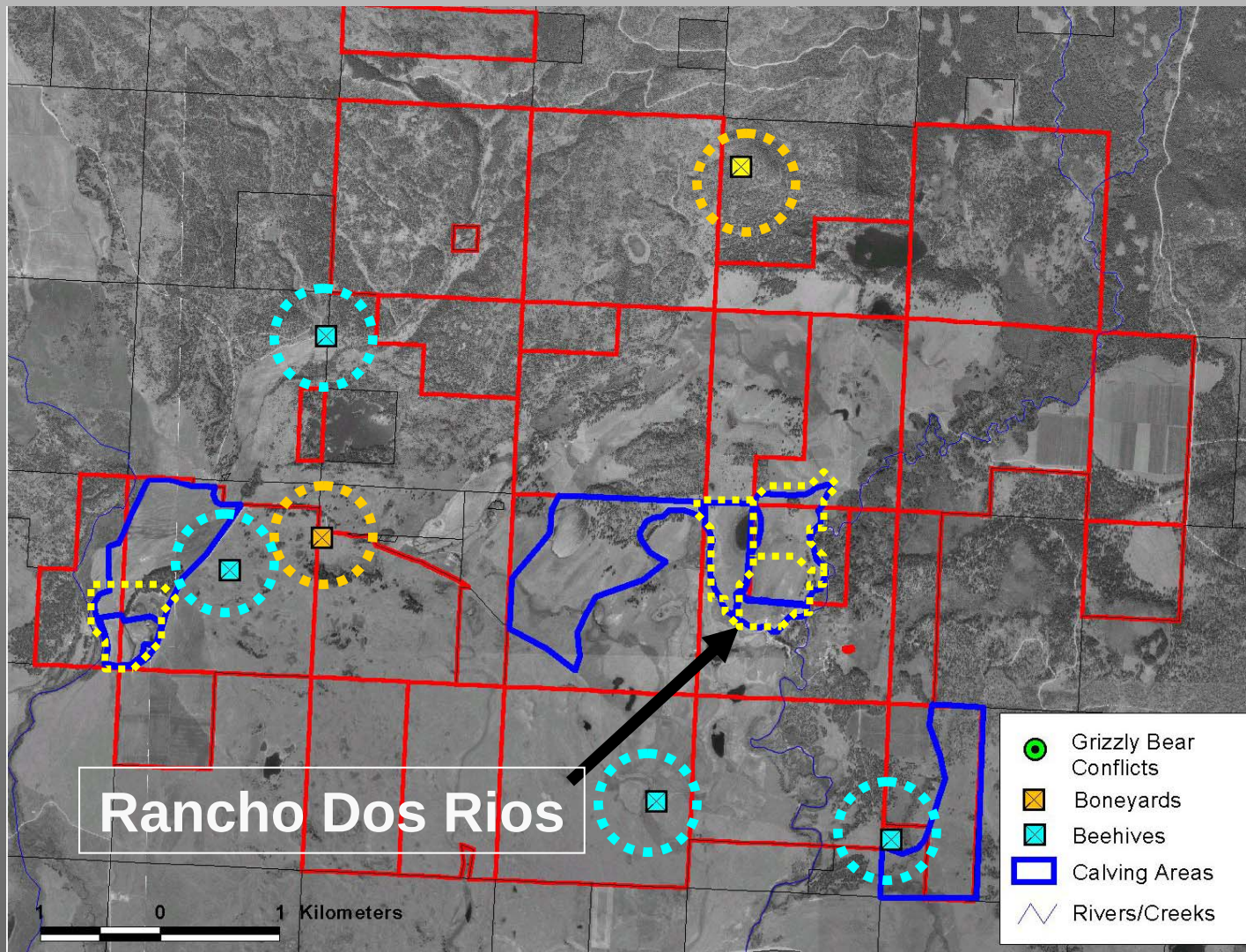
CERO Conflictos en 2006



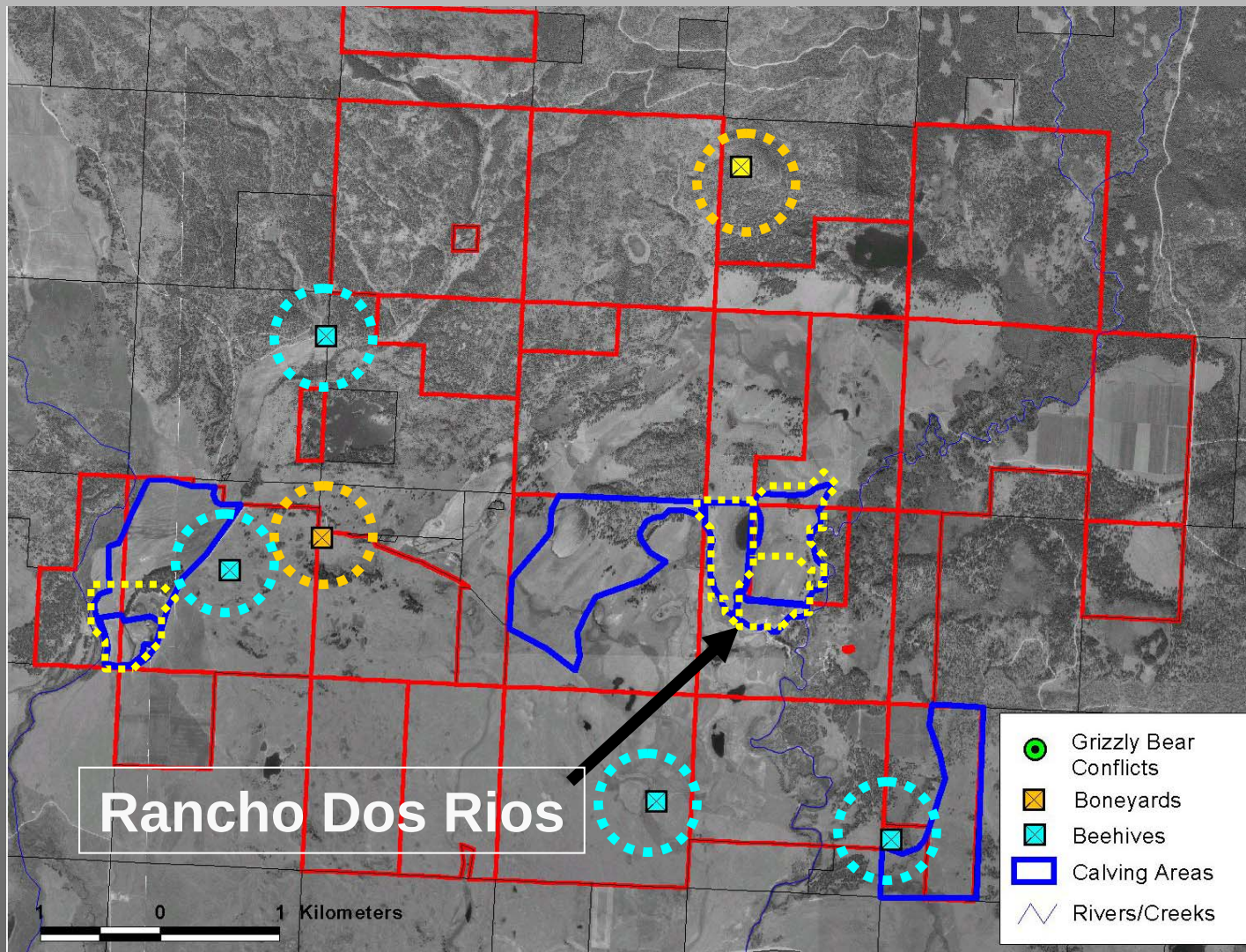
CERO Conflictos en 2007



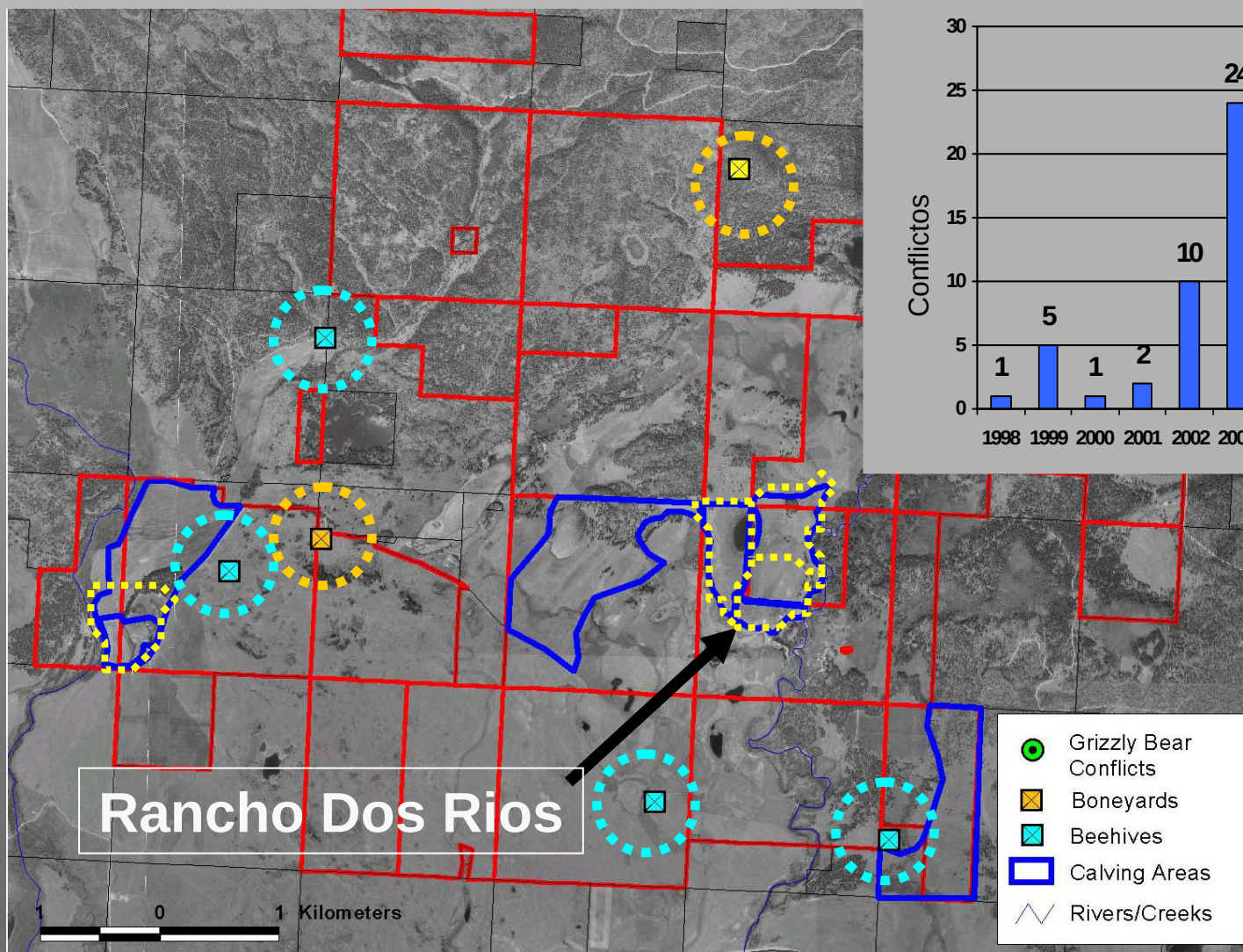
CERO Conflictos en 2008



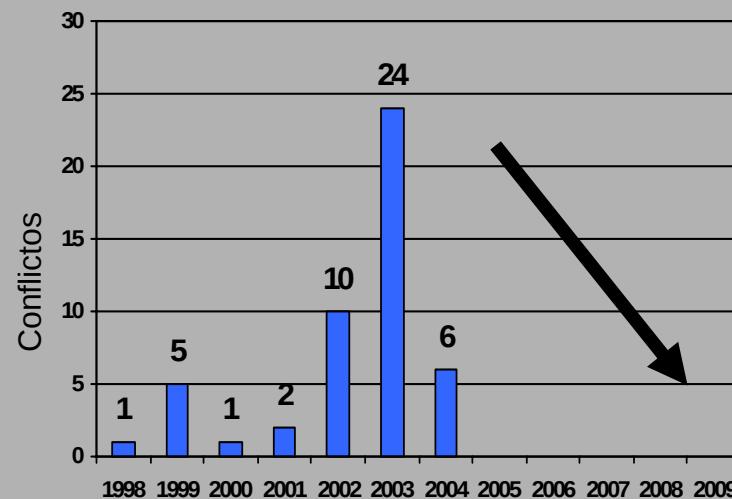
CERO Conflictos en 2009



Reduccion de Conflictos



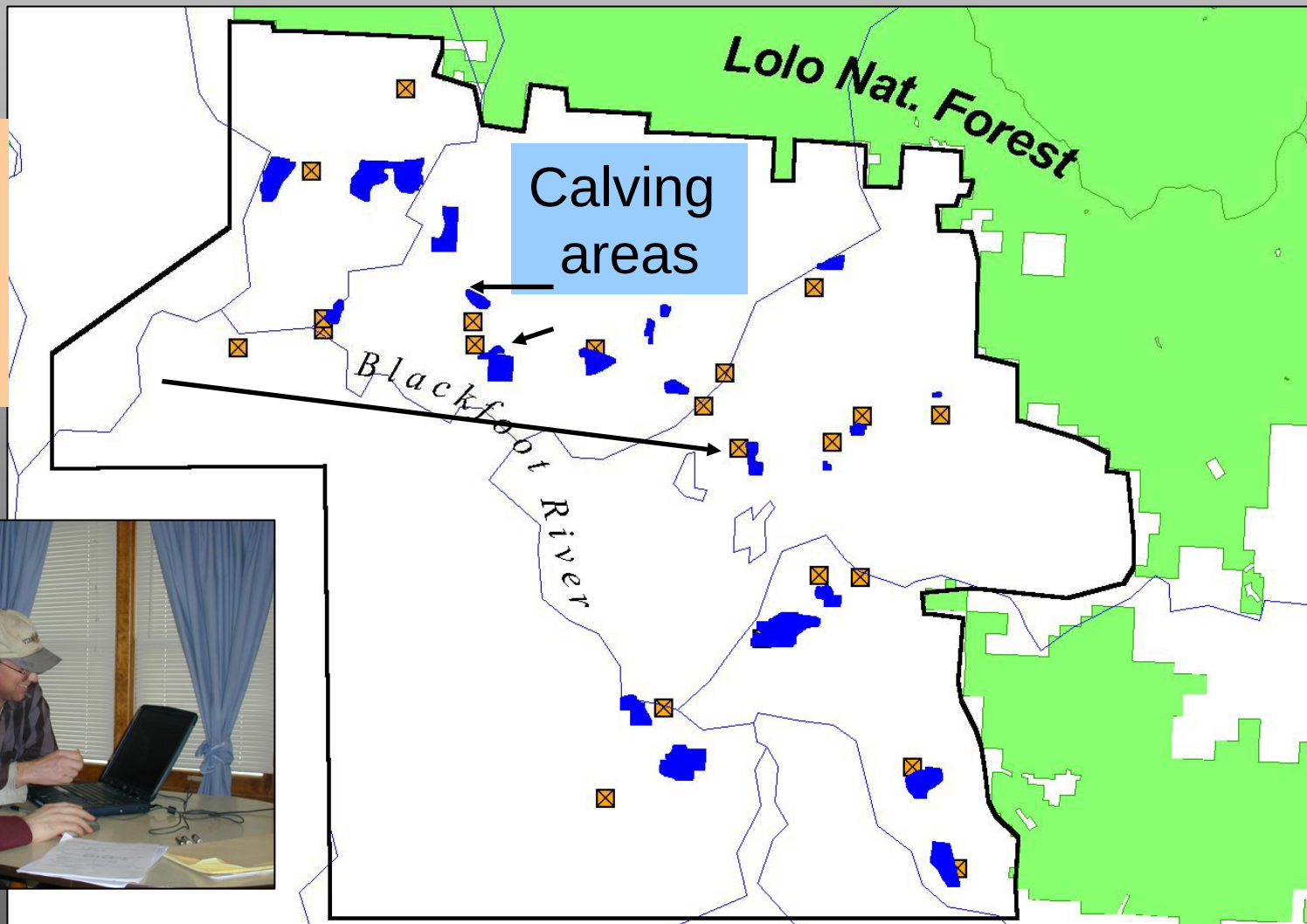
Conflicts with *Ursus arctos* de Two Creek Ranch
1998 – 2009 (n =49)



Maapeo SIG:

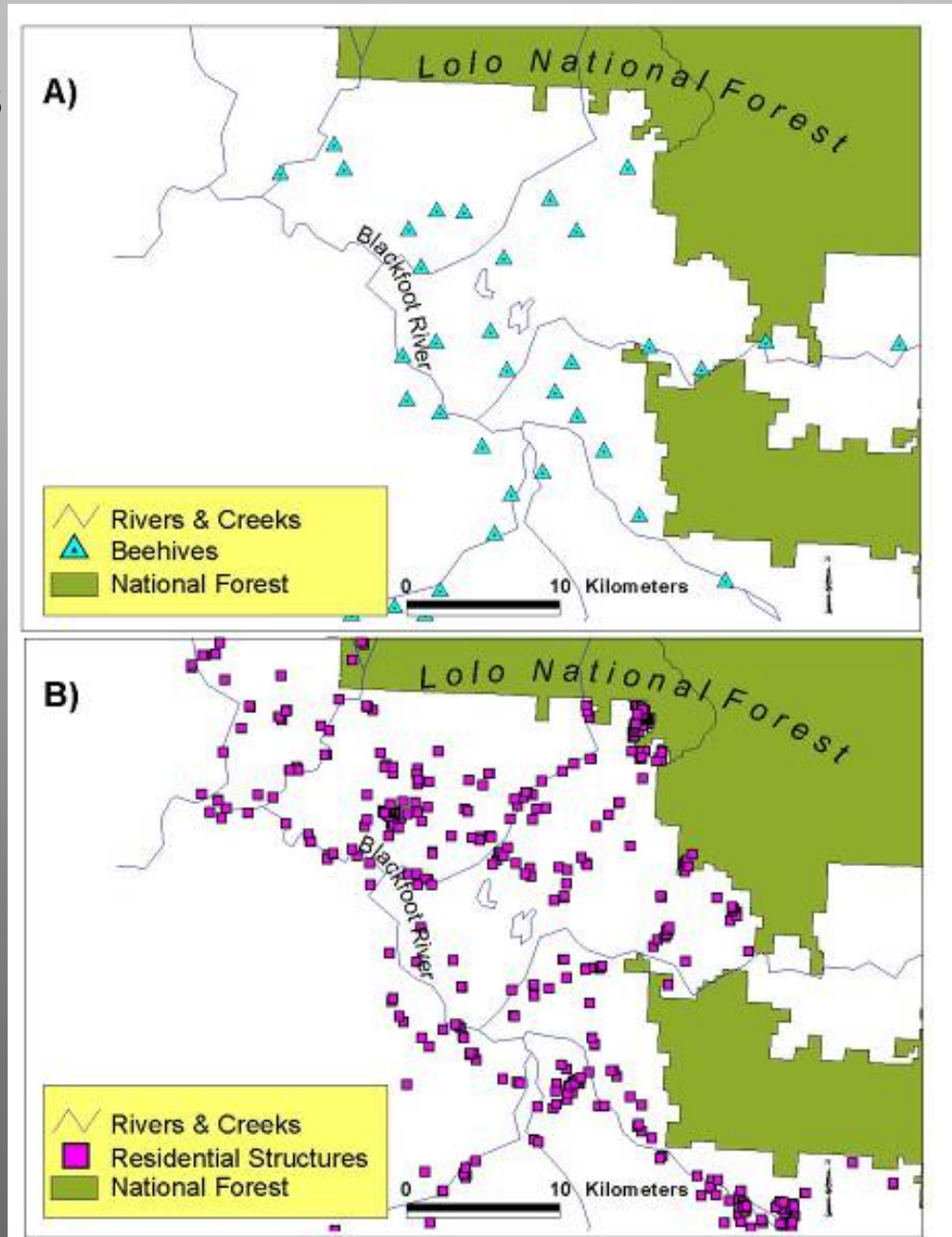
Con todos los rancheros
(35) de Blackfoot

Areas de
Desecho
de
Carnazas



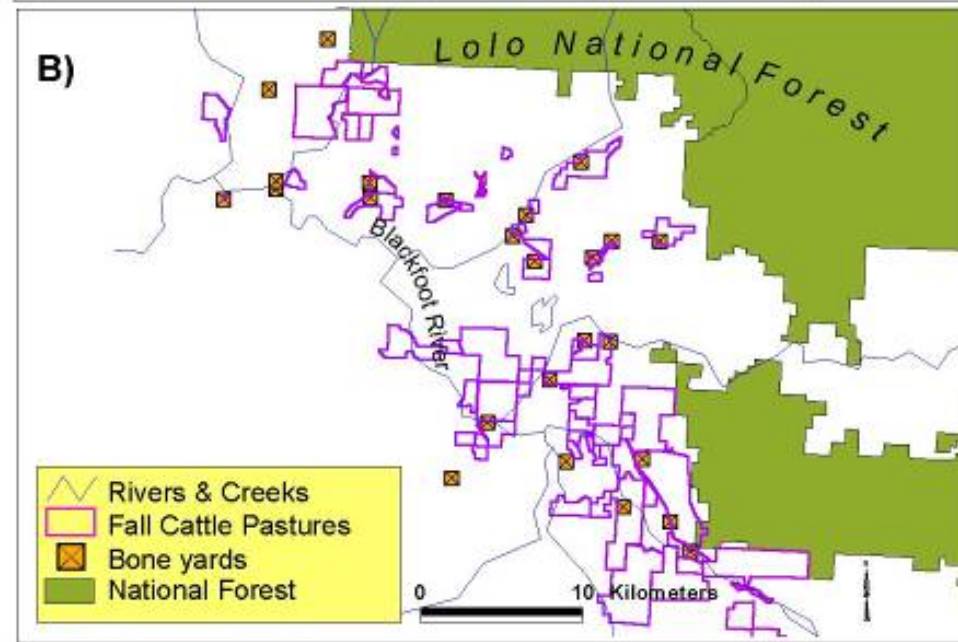
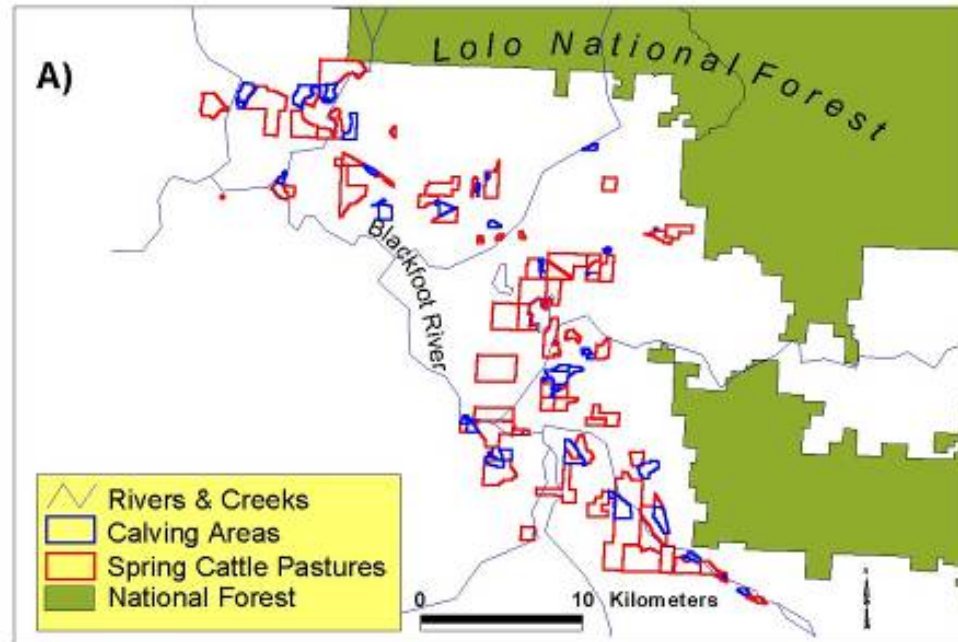
Maapeo SIG:

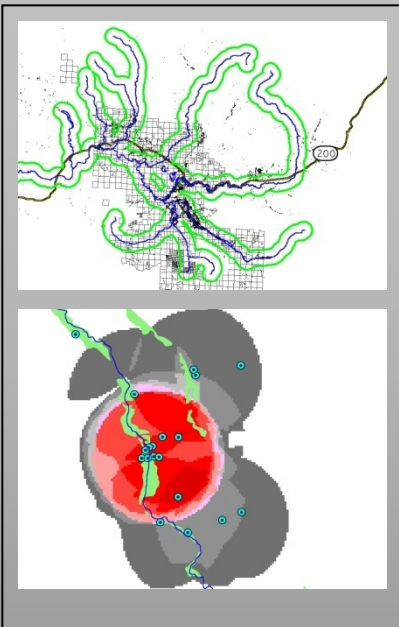
Con todos los rancheros
(35) de Blackfoot



Maapeo SIG:

Con todos los rancheros
(35) de Blackfoot





Identificacion de Puntos Clave de Conflicto



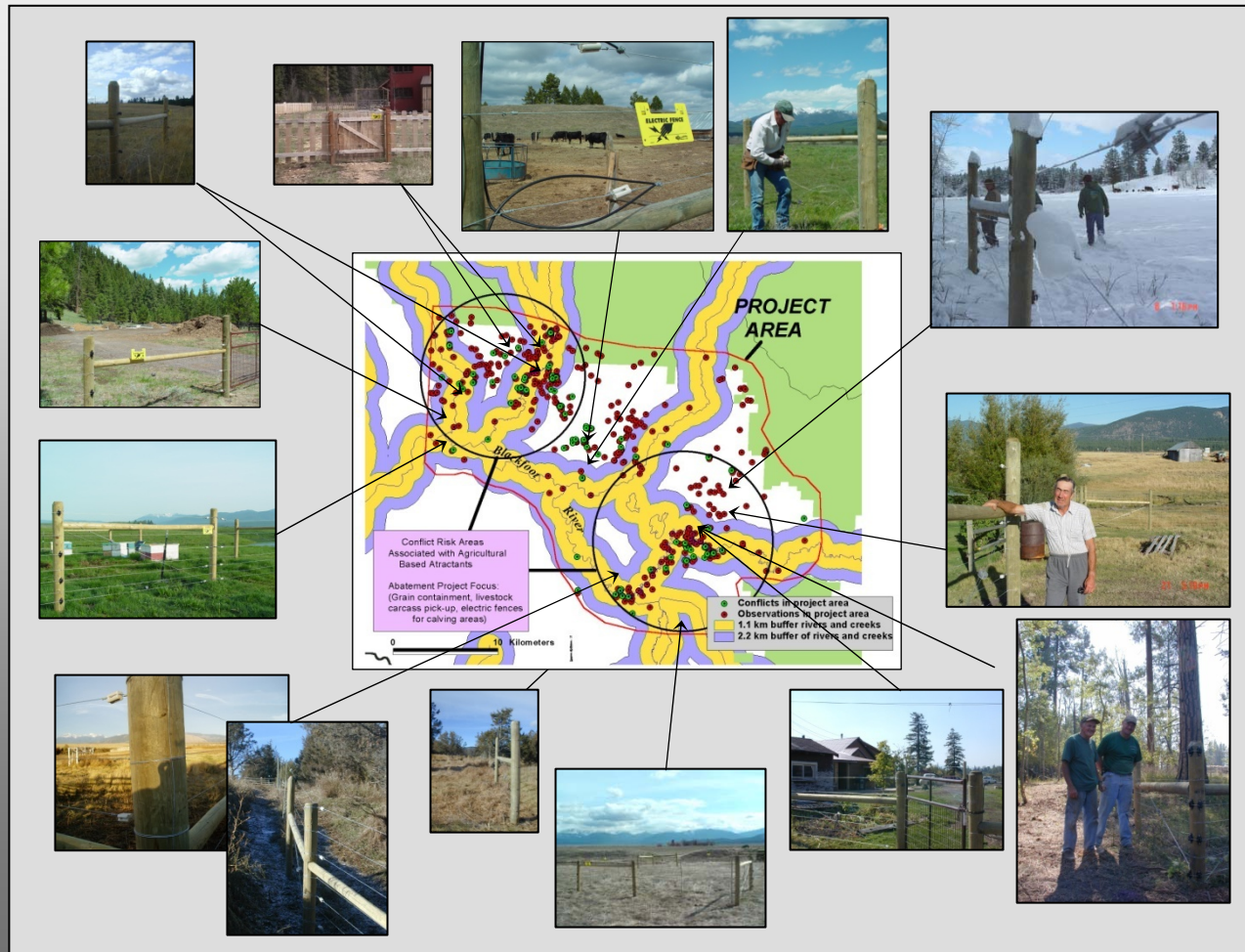
beehive fence



calving area fence

2003-2009: 30 Proyectos

32



Cerca Portatil

33



Prueba de la Cerca Portatil

34



Prueba de la Cerca

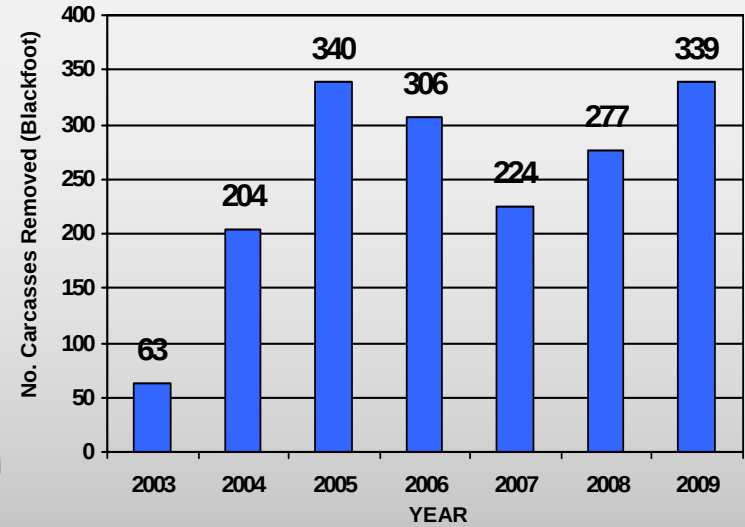
35



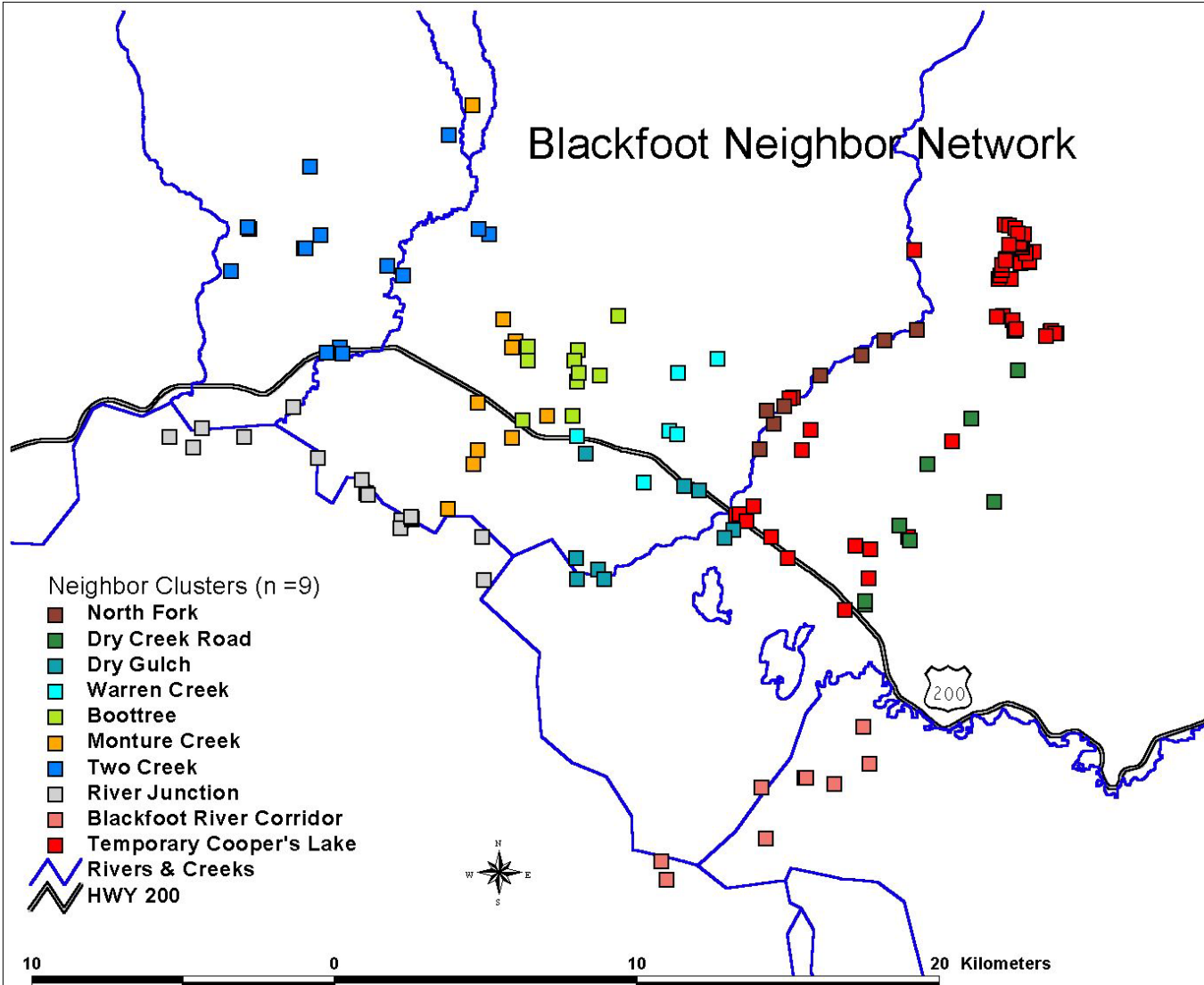
2009/06/14
00:01:11

Manejo de Carnazas

36



Blackfoot Neighbor Network



Manejo de desechos

38



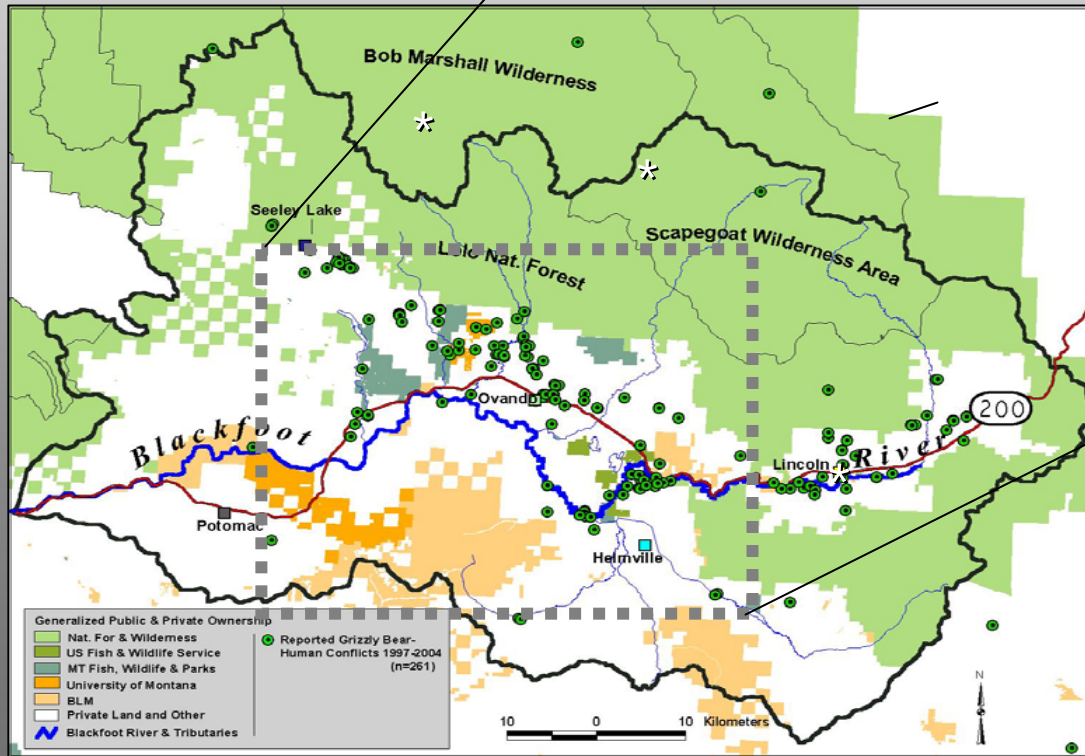
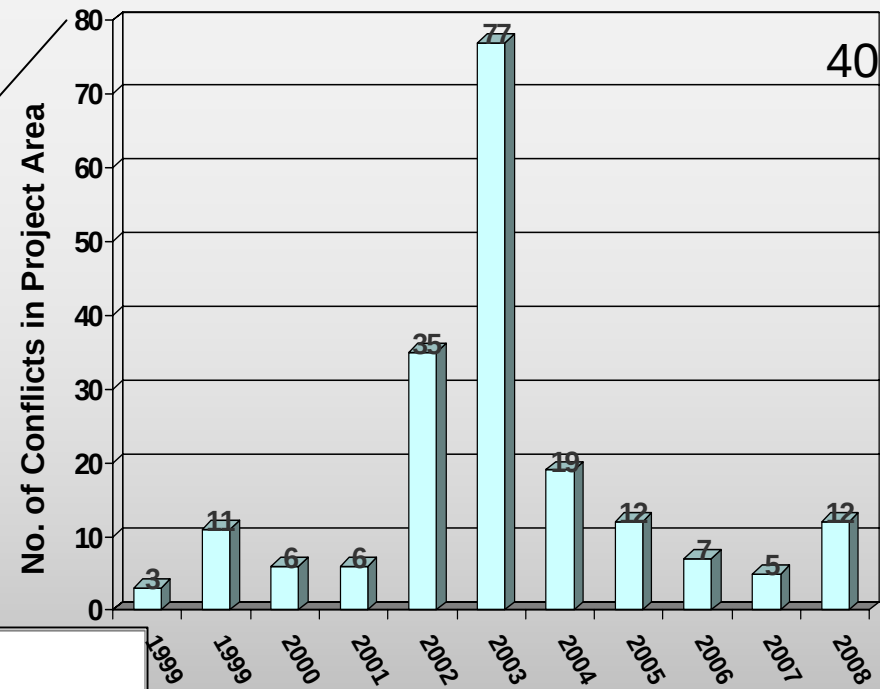
Comunicacion

39



Resultados Preliminares

84% reduccion de conflictos (2003-2008)
 Cero perdidas de ganado desde 2004
 Cero osos atrapados/relocalizados desde 2005
 Cero mortalidad de osos desde 2004*



* Outside project area from 2003-2008; 2 backcountry grizzly mortalities; 1 vehicle collision

Lecciones Aprendidas

41



Lecciones Aprendidas

42



Lecciones Aprendidas

43



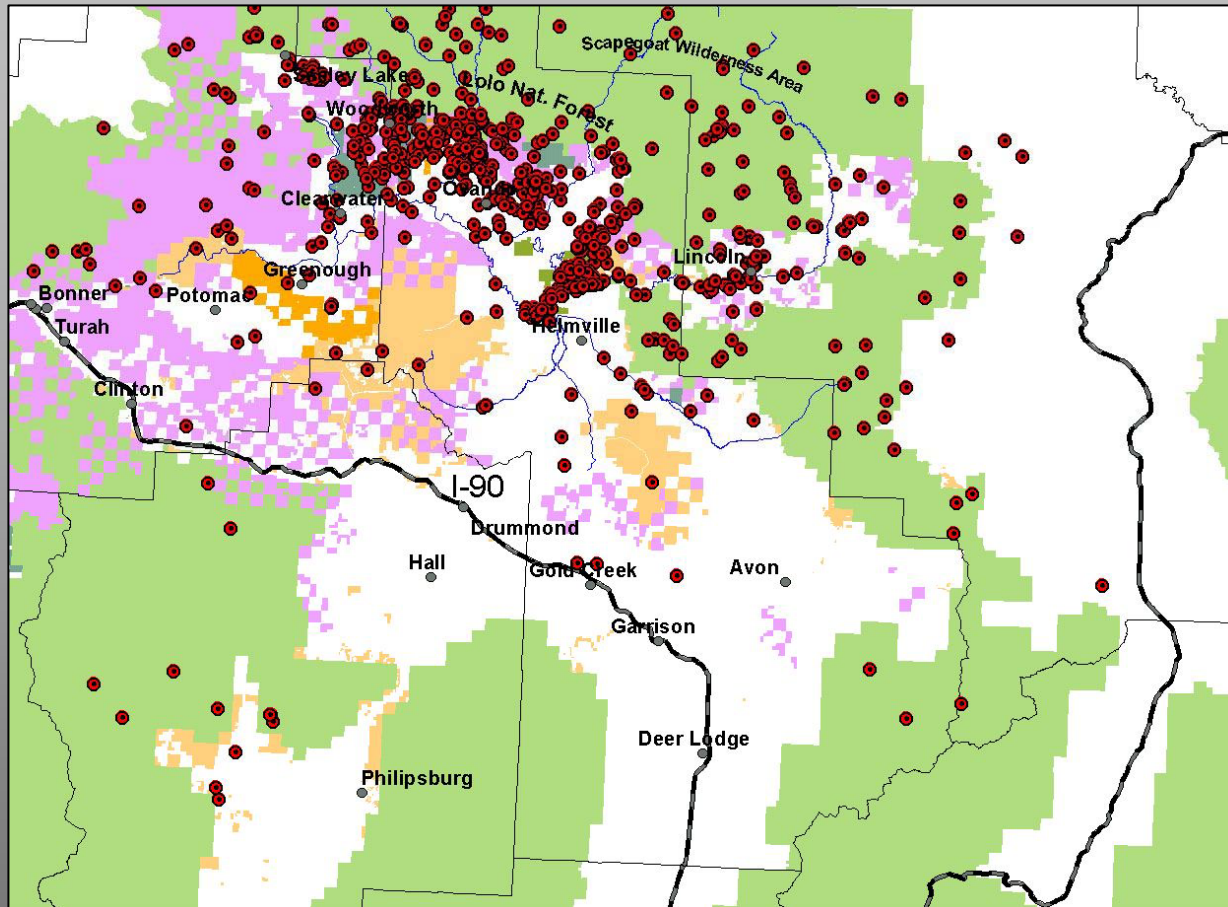
Lecciones Aprendidas

44



Lecciones Aprendidas

45



Lecciones Aprendidas

46



Lecciones Aprendidas

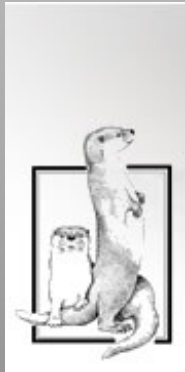
47



El Futuro?

**Increasing ownership, recovery, and sustainability
➡ of carnivore populations* ➡**

Form of local involvement	“You’re On your Own”	Tell them how	Do it for them Expert Dependency Model	Show them How technology transfer	Ownership—peer education, stewardship
Outcomes	People eliminate carnivores	Low odds of Success; people eliminate carnivores slowly	Program may Be successful—but very expensive, may not be sustainable	May be less expensive and more sustainable	<u>Coexistence becomes part of culture, most sustainable and durable</u>



NRCC

Special thanks to the Blackfoot Challenge and all members of the Wildlife Committee, the Landowner Advisory Group, the Waste Management and Sanitation Work Group, and the Neighbour Network. Special thanks as well to T. Smith, J. and I. Weaver, J. and C. Coughlin, G. Coughlin, M. McCormick, L. McCormick, T. Murphy, C. McClure, M. Gahan, D. Pruet, W. Slaght, K. Kovatch, R. Burchenal, D. Iverson, R. Cahoon, L. Flemming, B. Mannix, D. Mannix, R. Mannix, B. Rowland, R. Hall, J. Mulcare, D. Weiss, M. Gravely, C. Bauer, V. Edwards, P. Sowka, M. Johnson, T. Radandt, A. Klinefelter, T. Bernd-Cohen, J. Stone, J. Stuzman, H. Johnson, G. Neudecker, K. Ertl, C. Servheen, S. Kloetzel, Carol Kulish, W. Weaver, Barb McNally, R. Allen, G. Foote, and K. Schoendoerfer. Special thanks to Traci Bignell and Gary Burnett for expert administrative support. Special thanks to J.J. Jonkel, C. Sime, L. Bradley, M. Long, J. Kolbe, M. Thompson, and B. Henderson of the Montana Department of Fish, Wildlife and Parks for their vision, support, and collaboration. Thanks to B. Friede, P. Basting, C. Helm, and D. Moeller of MT Department of Transportation. Thanks to all of the fencing contractors we've worked with over the years and thanks to Dr. J. Waller, Dr. M. Gibeau, Dr. M. Schwartz, Dr. D. Mattson, Dr. L. Boitani, W. Gilgert, C. Sime, and L. Bradley for various scientific and management-related consultations on various scientific aspects of this effort. Thanks to all partners at the NRCS: D. Smith, P. Lauridson, G. Green, J. Bowe, C. Frazer, B. Weltzein, C. Engelhard, J. Blaine, W. Lujan, T. Prince, D. White, W. Gilgert, P. Husby, C. Mosley, E. Suffridge, P. Matthews, M. Harris, R. Nadwornick, L. Metz, and T. Pick. Thanks to our new Ranger Rider, Peter Brown.



We are grateful for the generous financial support from: Allied Waste Services (formerly BFI), Blackfoot Challenge, Brown Bear Resources, Bunting Family Foundation, Chutney Foundation, Defenders of Wildlife, Great Bear Foundation, Living with Wildlife Foundation, MT Department of Fish, Wildlife and Parks, MT, Department of Transportation, MT Department of Natural Resources and Conservation, National Fish and Wildlife Foundation, Nature Conservancy, Natural Resources Conservation Service (NRCS), Northern Rockies Conservation Cooperative, Pumpkin Hill Foundation, Powell County Extension, Private Landowners (Ranchers, Outfitters, Business owners, and Residents), University of Montana, College of Forestry and Conservation, US Fish and Wildlife Service, US Forest Service, US Geological Survey, Y2Y / Wilburforce Foundation, and Yale University's School of Forestry and Environmental Studies