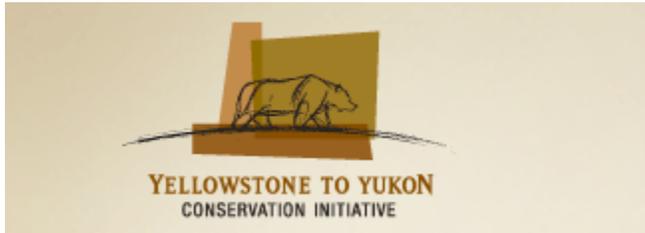


Highway Mitigation Opportunities for Wildlife along Highway 1, 2 and 95 in Boundary County, Idaho

Marcel Huijser & James Begley

Funder:



Who?

Who?

- Marcel Huijser
- Research Ecologist
- WTI-MSU, 1994, rural transportation
- Road Ecology program
- Projects funded by: FHWA, DOTs, Counties, Foundations, National Parks

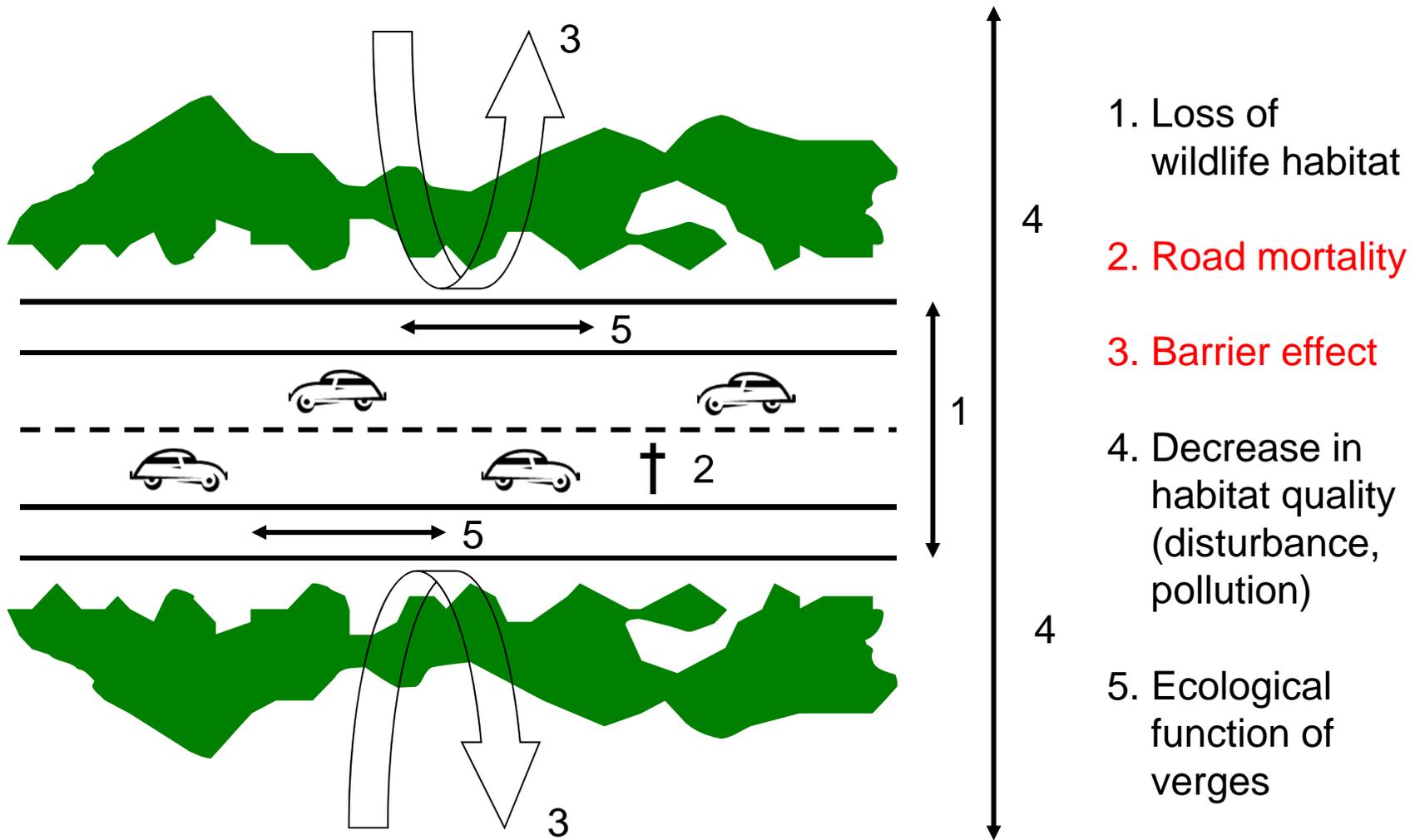


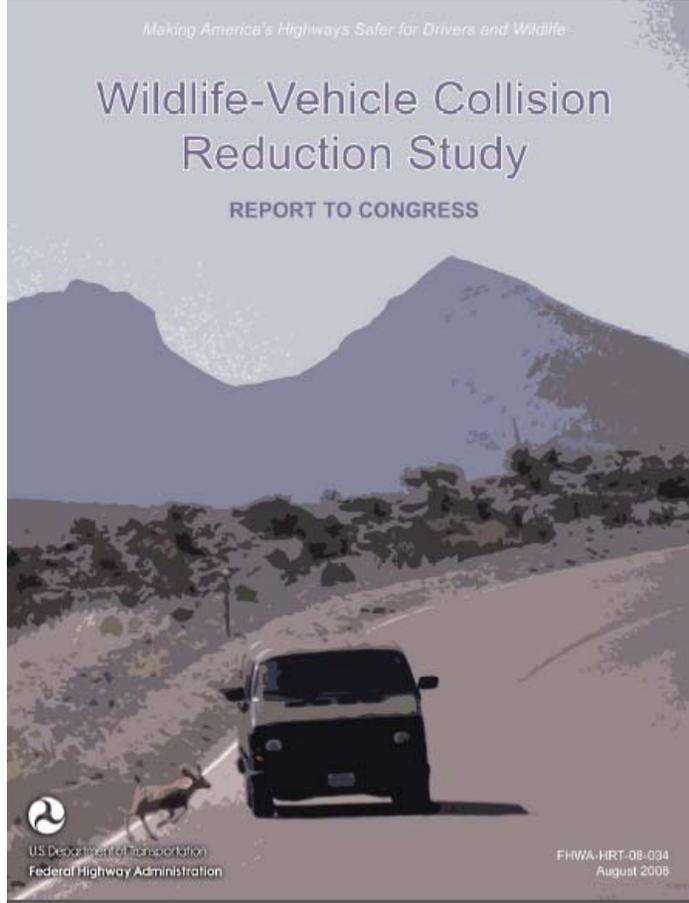
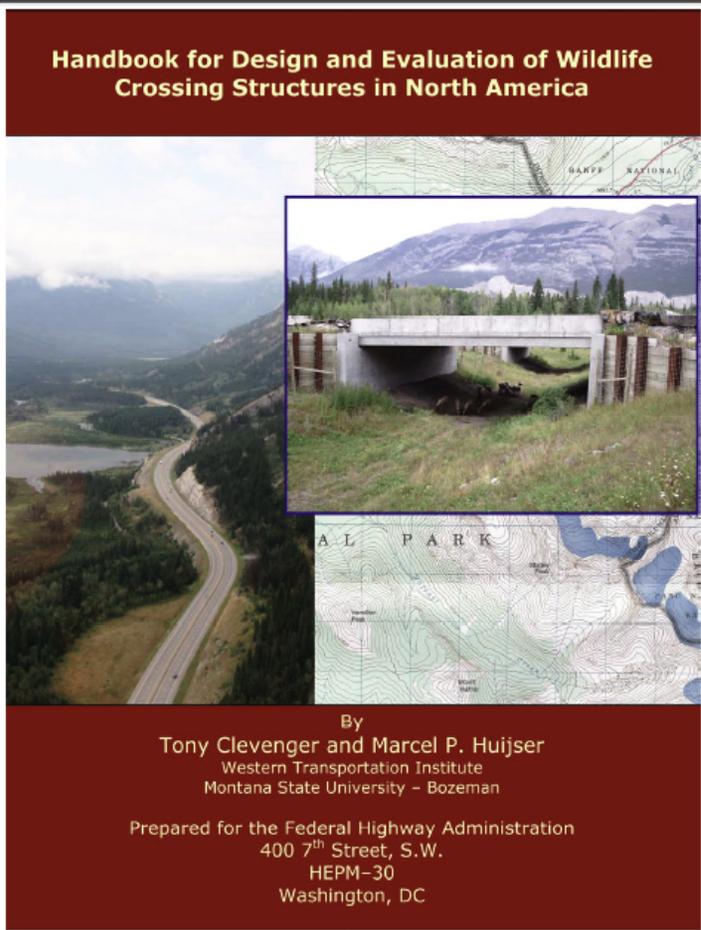
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Western Transportation Institute

Ecological Impacts





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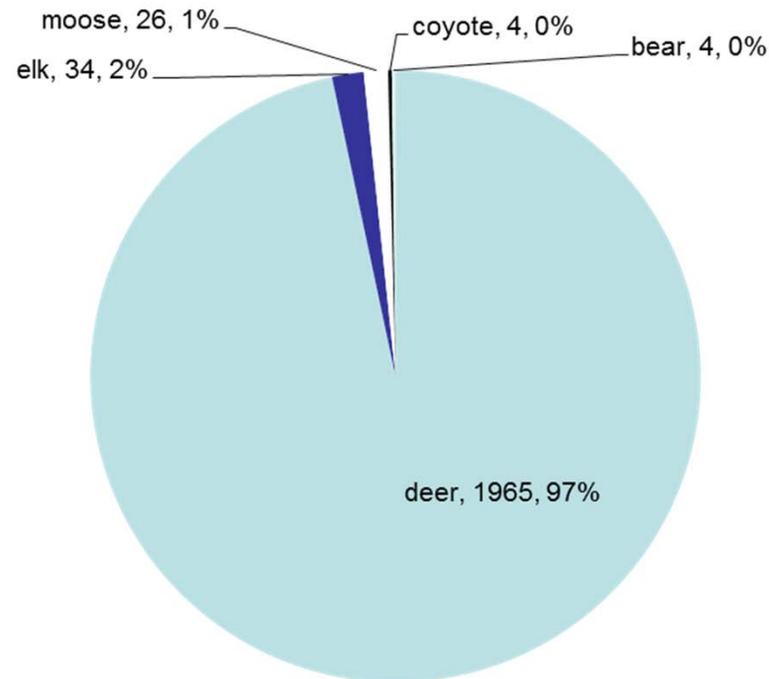
Crash and Carcass data

- Same time period for both datasets
- 1 Jan 2003 through 31 Dec 2010
(excluding 1 Jan 2007-31 Dec 2007)
- Medium and large wild mammals only
(coyote size and up)
- Spatial resolution: 0.1 mi (based on crash and carcass records)



Data summaries

- Crash data: N=290
- Carcass data: N=2033

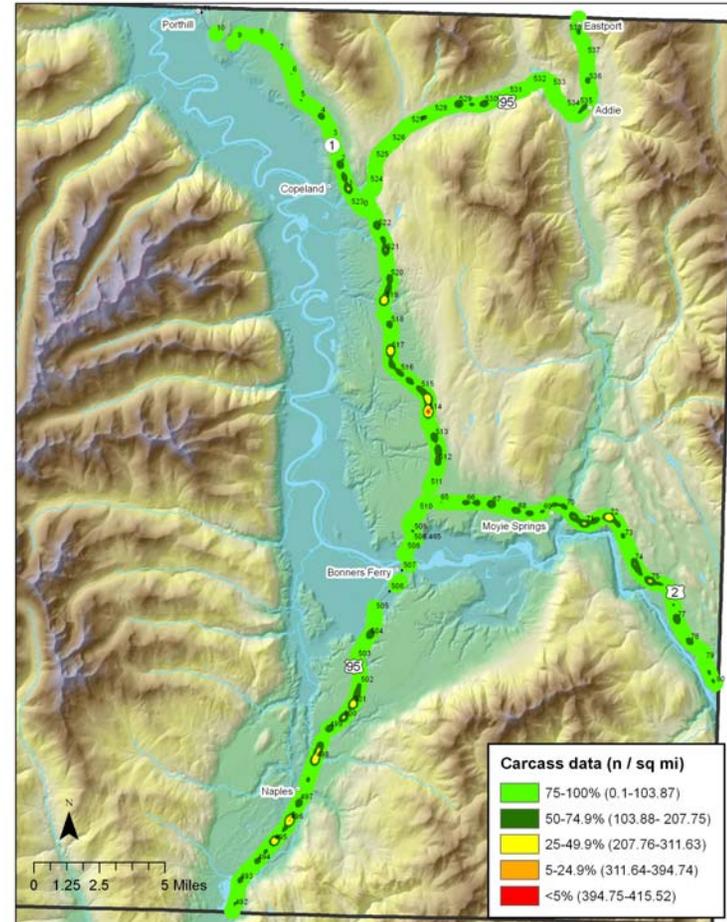
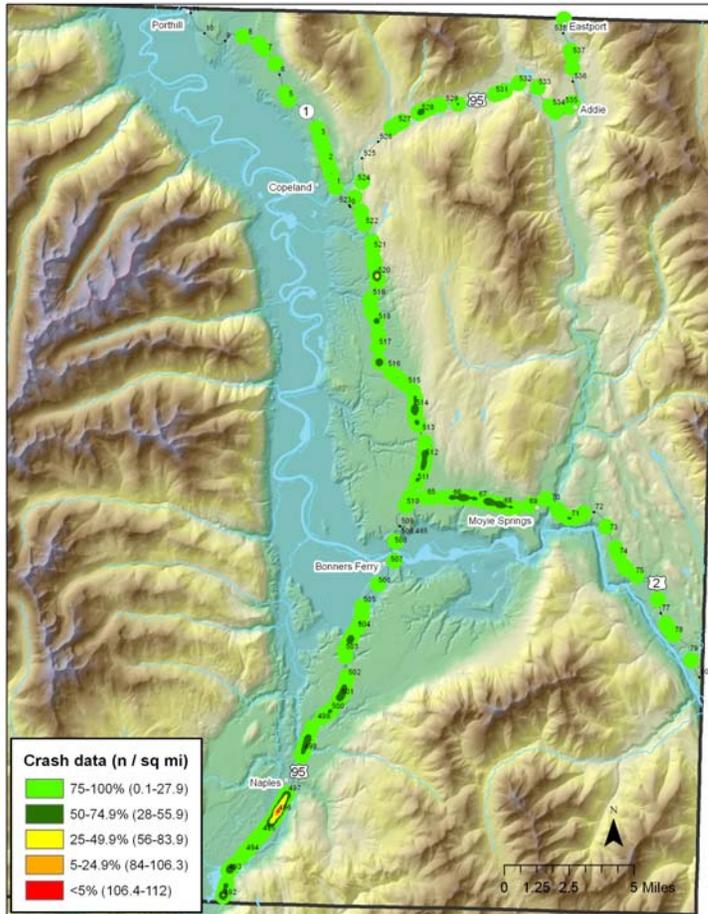


Kernel hotspot analyses

- Separate analyses for crash and carcass data
- All roads and road sections (Hwy 1, 2, 95) combined
- Cell size: 25x25 m
- Search radius: 500 m
- “point density” calculated for each cell
- Categories based on percentiles



Hotspots



Input from you

- Additional sites wildlife-vehicle collisions?
- Live observations?
 - Existing data
 - Local knowledge and experience?
- Habitat and corridor maps?
 - General habitat maps?
 - Species specific? e.g. grizzly bear, woodland caribou
 - Policy based?



Site visit

- MP 496, south of Naples?
 - Species: deer and moose
- Other location?



Questions

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- Phone: +1-406-543-2377

