

Montana Wildlife and Transportation Summit

MDT Project Development

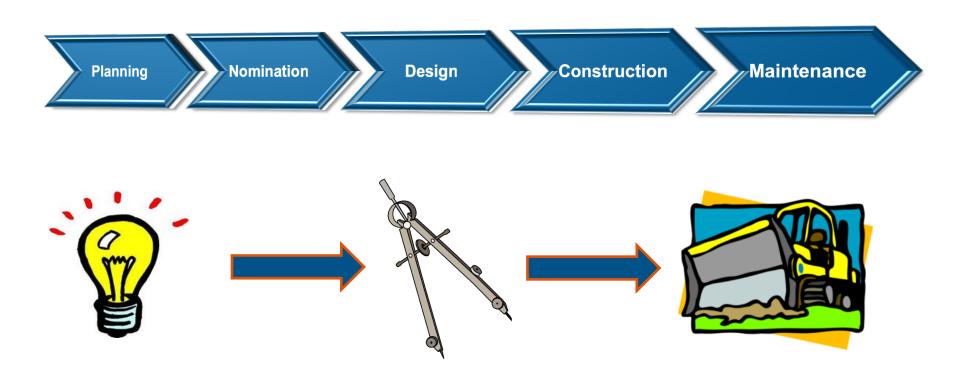
Dustin Rouse – Preconstruction Engineer



Presentation Outline

- Life of an MDT Project
- Plans and Studies
- Nomination Tools
- Statewide Transportation Improvement Program (STIP)
- Tentative Construction Plan (TCP)
- Challenges in Providing Wildlife Accommodations
- Successful installations
- Q & A













MDT has developed a set of goals and strategies reflecting public and stakeholder feedback and data analysis.

- Goals are statements of desired results for Montana's transportation network.
- Strategies are methods and business practices to achieve stated goals.

Goals and strategies are intended to provide broad policy guidance to inform and direct MDT decision making during the 20-year planning horizon set forth in TranPlanMT.

Safety is an overarching goal applied in nearly every MDT decision making process for all programs and projects.

MDT makes

roadway investment

decisions according

goals listed in order

to the following

or priority.



SAFETY

ove safety for all transportation users to achieve n Zero: zero fatalities and zero serious injuries.



SYSTEM PRESERVATION AND MAINTENANCE

reserve and maintain existing transportation



MOBILITY AND ECONOMIC VITALITY

Facilitate the movement of people and goods ecognizing the importance of economic vitality.



ACCESSIBILITY AND CONNECTIVITY

eserve access to the transportation network and ctivity between modes.

Sensitivity to the environment and cost-effective management are underlying goals informing decisions on a broad department-wide basis



BUSINESS OPERATIONS AND MANAGEMENT

rovide efficient, cost-effective management and operation to accelerate transportation project delivery and ensure system reliability.



ENVIRONMENTAL STEWARDSHIP

regulatory compliance and responsible stewardship of the built and natural environment

Planning for Montana's transportation future takes ongoing collaboration. Let's keep the conversation going!

Your input is welcome at any time! Stakeholders and members of the public may also participate at specific milestones through the opportunities noted in the graphic below. Thank you for your involvement in TranPlanMT.



For more information contact us at:

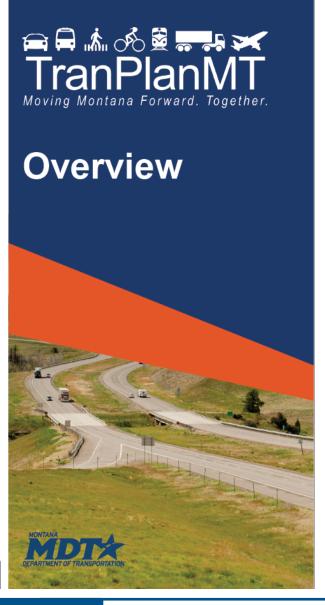
http://www.mdt.mt.gov/tranplan | 406-444-6201

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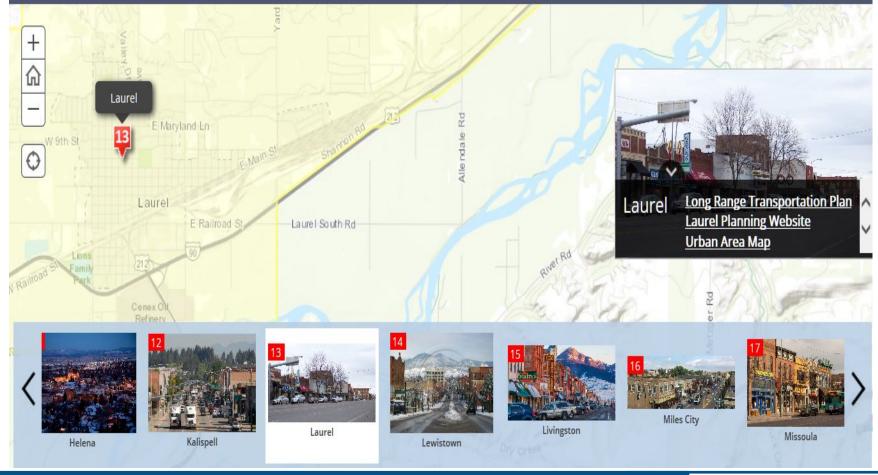
Montana Urban Areas: Plans and Maps

A MDT story map 🛮 🗗 💆 🔗



Take a tour of the Montana Urban Areas and view their respective planning documents and Urban Area maps.

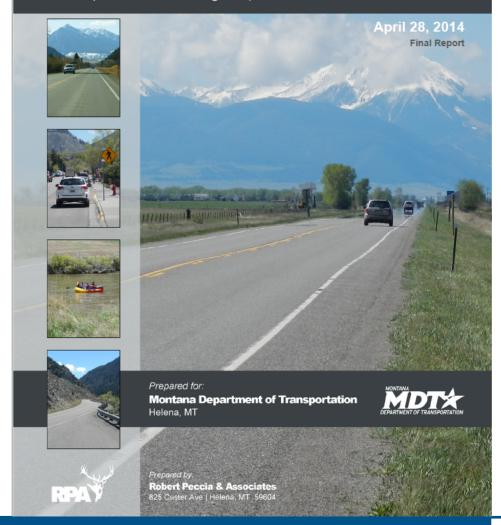






Paradise Valley Corridor Planning Study

US 89 (Gardiner to Livingston)







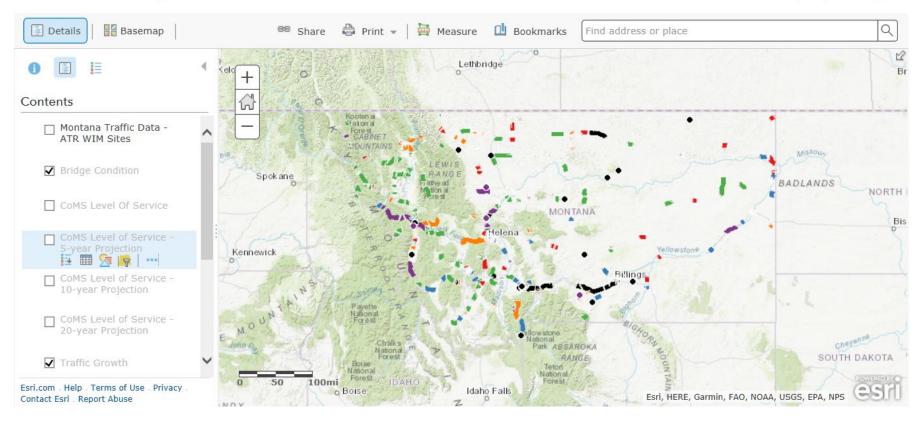




MDT Nomination Tool

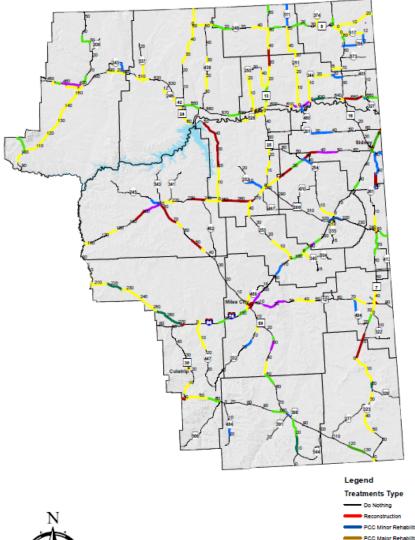
ArcGIS ▼ MDT Project Nomination Tool

Modify Map & Sign In





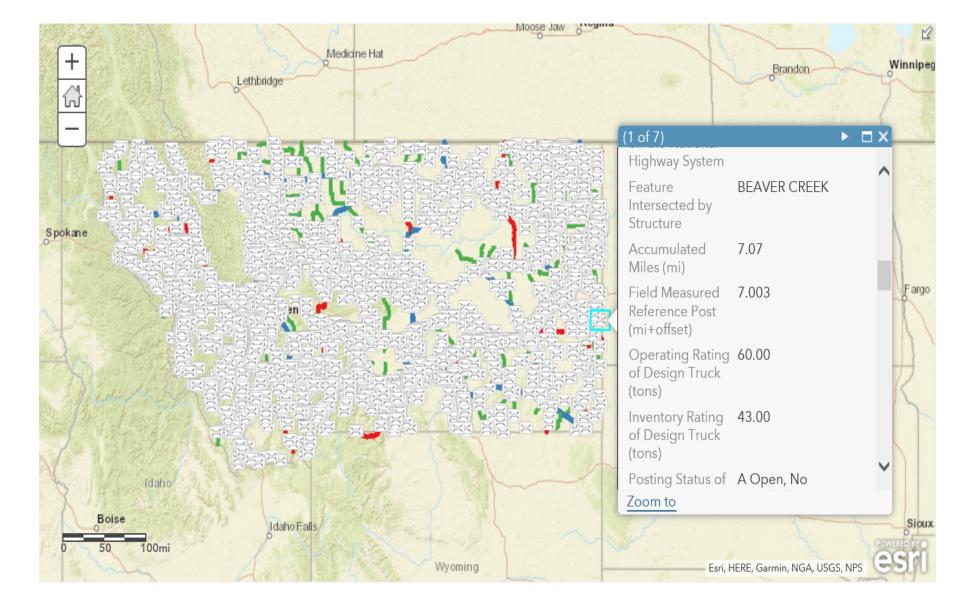
District 4
Recommended
Treatments 2018



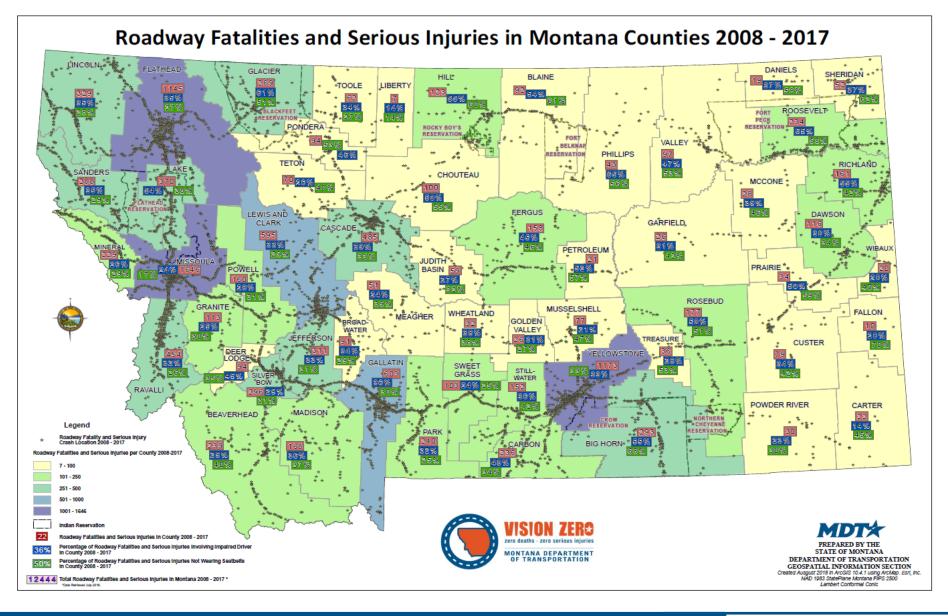








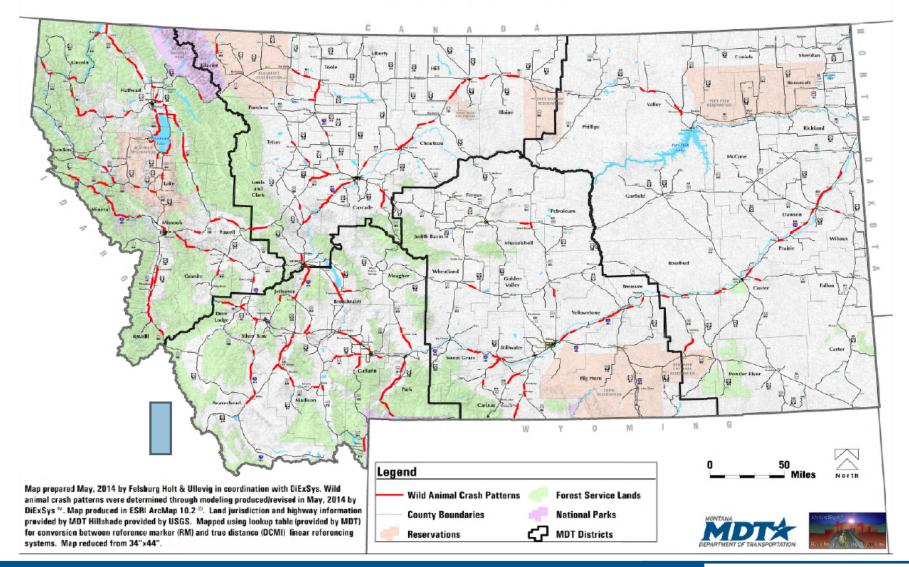






Roadway Departure Safety Implementation Plan

WILD ANIMAL CRASH PATTERNS





Interactive STIP Map

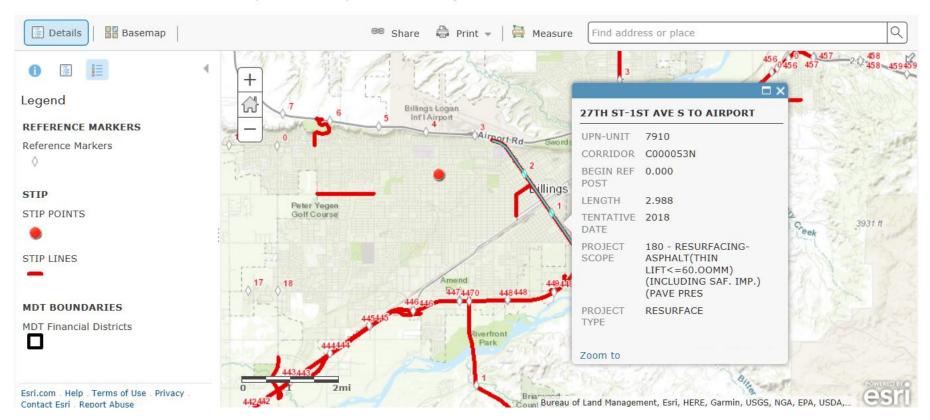




STIP Project

ArcGIS → MDT Statewide Transportation Improvement Projects (STIP) 2017-2021.

Modify Map & Sign In

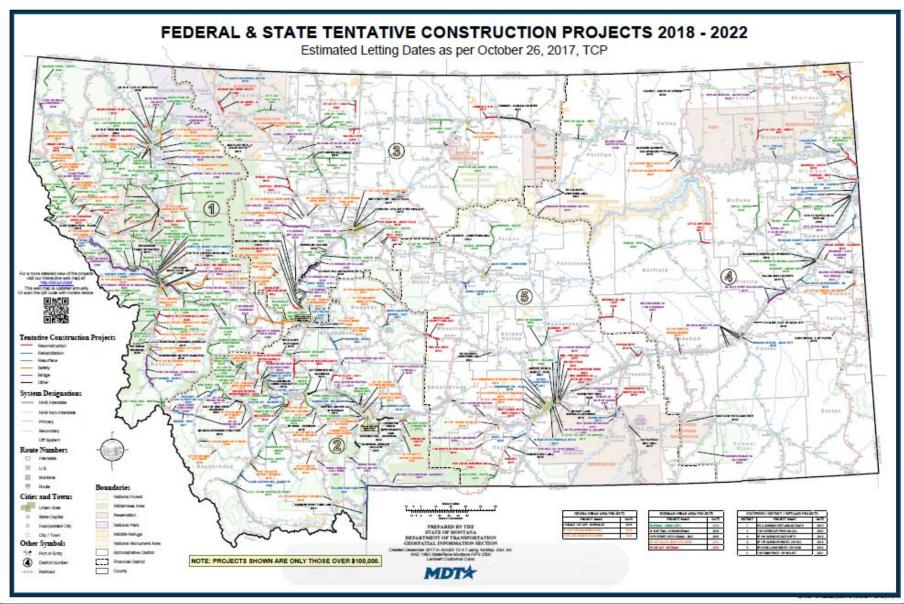




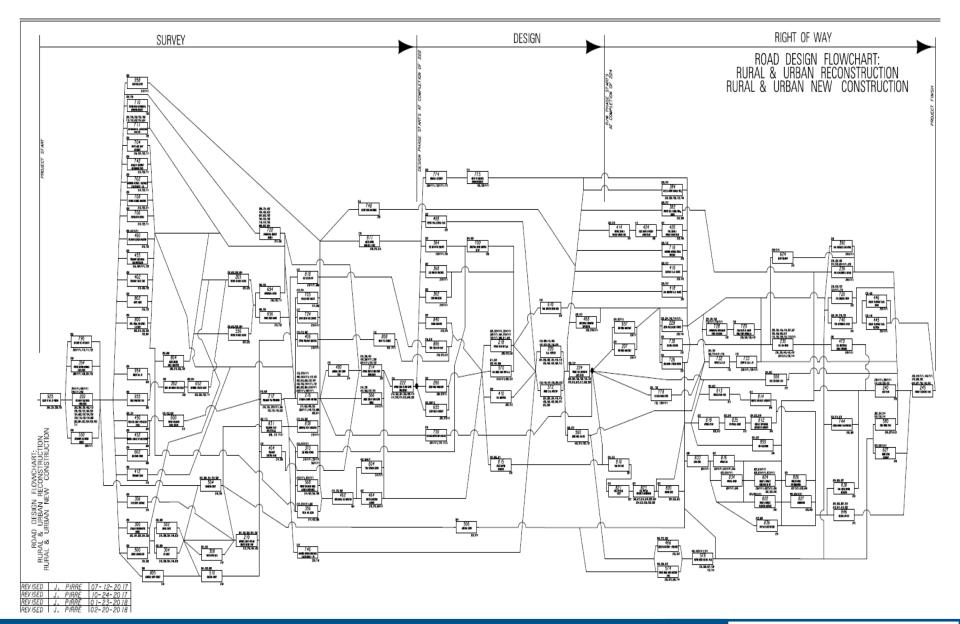






















Fox Farm Road project, 2018



Planning Nomination Design Construction Maintenance





Challenges in Providing Wildlife Accommodations

- Adjacent Land Use
- Scale and location of wildlife accommodations
- Data Needs
- Trust and Understanding of NGO's
- Funding and Eligibility
- Installation and Future Maintenance Costs
- Paradigm Shift for Transportation



Montana Department of Transportation



Montana Wildlife and Transportation Summit

MDT Wildlife Accommodations

December 4, 2018

Tom Martin, PE MDT Environmental Services Bureau Chief



Why Does MDT Care about Wildlife?

- Vision Zero
- Mission Statement Sensitivity to the Environment
- TranPlanMT Environmental Goals
- Responsible for Safety of Travelling Public and Maintaining Wildlife Movement
- Natural Resources fuel Montana's economy

What is MDT Already Doing Regarding Wildlife?

- Wildlife Accommodation Process
- MDT District Biologists
- Project Coordination with FWP
- Wildlife Data
- Project Example: Lincoln East project

MDT's Wildlife Accommodation Definition

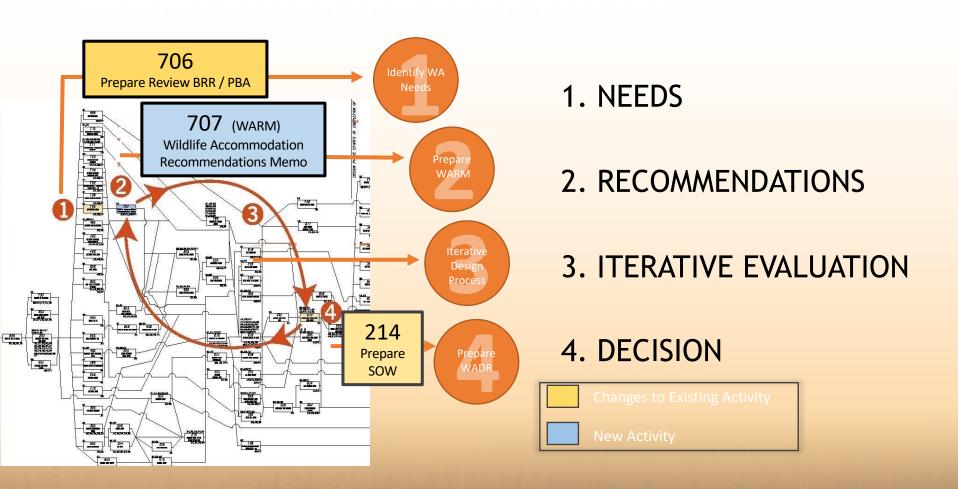
- Feature or a Strategy
- Designed and implemented into a transportation facility to moderate the effects of the infrastructure on wildlife and their habitat.





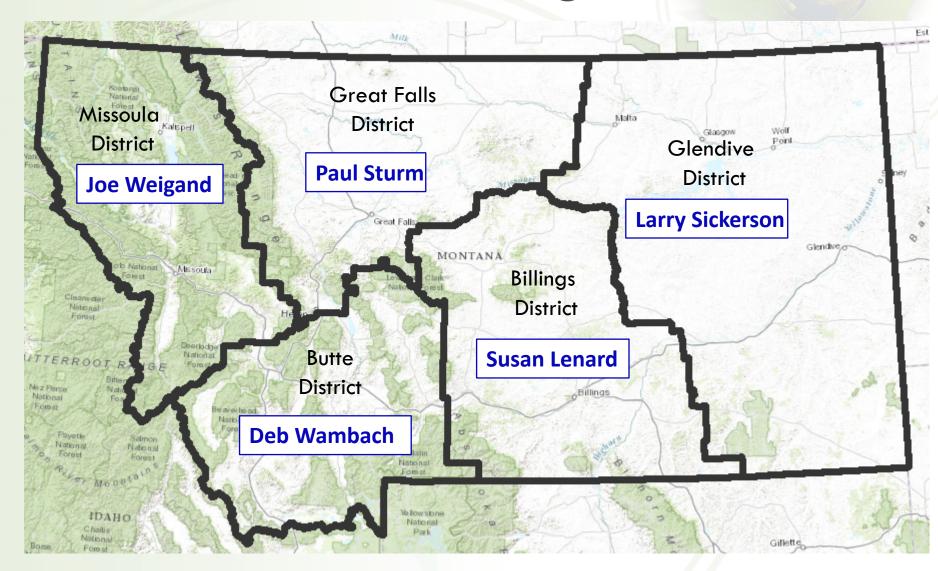


Wildlife Accommodations Process



https://www.mdt.mt.gov/research/projects/env/wap.shtml

MDT District Biologists



MDT District Biologists Duties

- Every project evaluated by Biologists
- Agency coordination (USFWS, FWP, etc.)
- Biological Resource Reports
- Biological Assessments (T&E Species)
- WA Needs and Feasibility analysis
- Project Impact Analysis
 - Avoidance/Minimization Recommendations
- MDT Design Team

FWP Project Coordination

- Biennial MDT/FWP Regional Meetings
 - Next one February 2019
 - ArcGIS Online Collaboration tool
- MDT/FWP Biologist coordinate on project by project basis
 - FWP Wildlife Biologists
 - FWP Bear Management Specialists
 - FWP Non-game Biologists
- Biologist field visits, call, email, etc.
- Montana Chapter of the Wildlife Society Meeting

MDT Wildlife Data

- Collision Data from the MHP
- Carcass Data from MDT Maintenance
- Other sources: (primarily mapping data)
 - FWP
 - USFWS
 - BLM
 - DNRC
 - Tribal
 - Heritage Program/NRIS
 - What else is out there?! Let talk about it.

Percent of Carcasses Collected by Species Statewide (Jan.1, 2013 to Nov. 13, 2018)

92.5%

32, 047 total carcasses collected (Avg. = 5046/Year)



Deer n = 29,654



Elk n = 884



Other Wildlife n = 830



Antelope n = 347



Moose n = 136



Black Bear n = 117



Bighorn Sheep n = 51

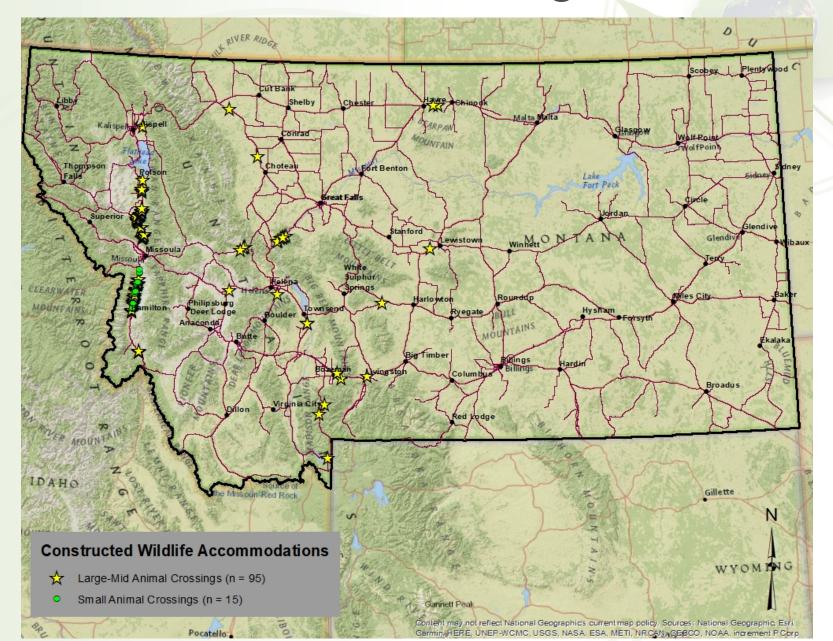


Mtn Lion n = 26

Mtn Goat n = 2

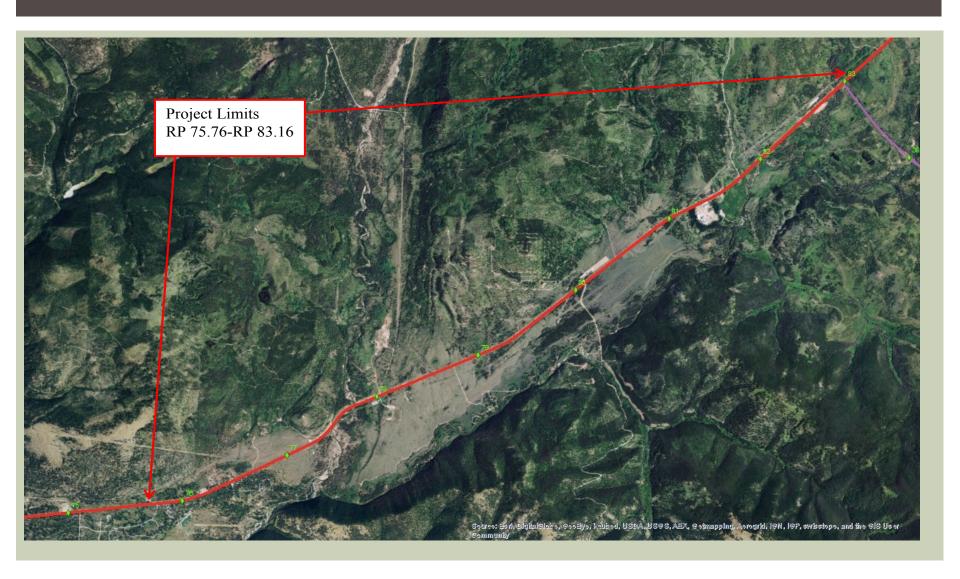
<0.1%

Statewide Crossings



LINCOLN-EAST WILDLIFE ACCOMMODATIONS

PROJECT AERIAL, MT 200 PROJECT LIMITS RP 76.7-83.1



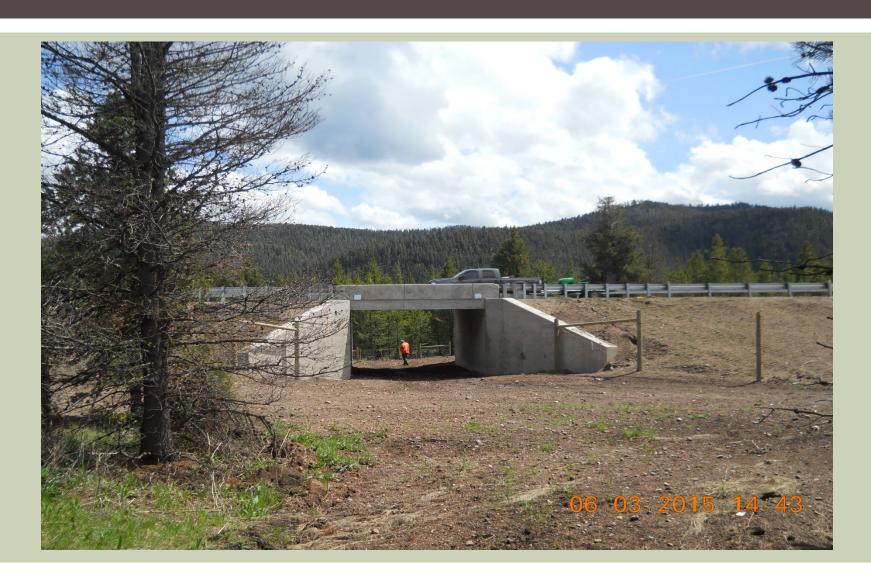
EAST WILDLIFE BRIDGE/UNDERPASS 12 FEET TALL X 20 FEET WIDE



ALICE CREEK BRIDGE



WEST WILDLIFE BRIDGE/UNDERPASS 12 FEET TALL X 20 FEET WIDE



CAMERAS USED FOR ADAPTIVE MANAGEMENT



TYPICAL JUMPOUT



ELK USING JUMPOUT



ASPEN GROVE FENCE END



MULE DEER



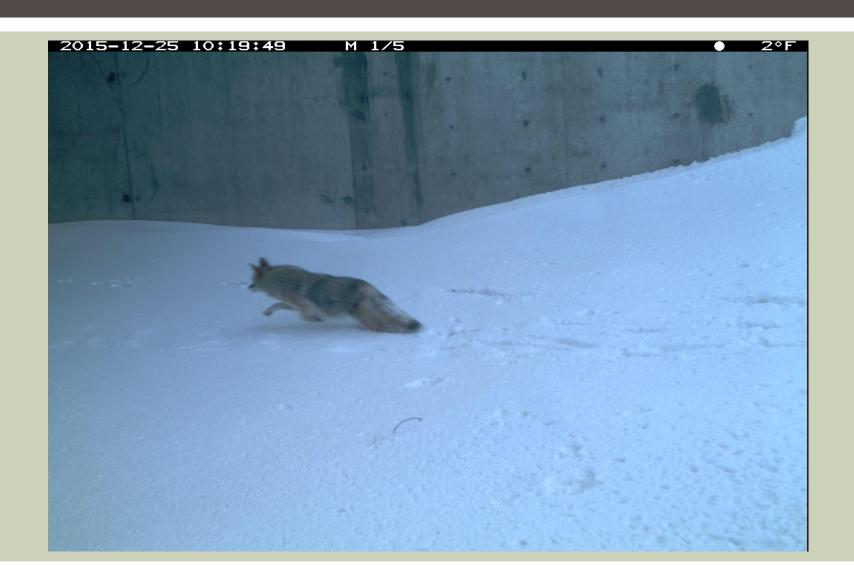
WHITETAIL USING ALICE CREEK BRIDGE



BLACK BEAR



COYOTE



MOUNTAIN LION



MOOSE



ELK---TOUGH TO GET THROUGH STRUCTURES



ELK



SANDHILL CRANE & CHICKS



WOLF



BIGHORN SHEEP



GRIZZLY



GRIZZLY - OTHER SIDE



KEY TAKEAWAYS

- Takes time for animals to adapt
- Adaptive Management willingness
- Team Effort!

THE END



How can NGOs and FWP support MDT?



- FWP/other agencies
 - Elevate importance of transportation/wildlife considerations
 - Data sharing (collar data, other?)
 - Recommendations that support MDT/projects
 - Share your knowledge and expertise
 - FWP Biologists at MDT field reviews with MDT Biologists or Design Team
- NGOs & Other Partners
 - Land acquisitions, easements
 - Alternative funding, grants
 - Public education outreach
 - Positive media for MDT
 - Improved communication/relationships
 - Monitoring new, existing crossings

How/when to engage?



- Inside STIP projects
 - MDT lead and engages outside entities for info, data, other needs
- Outside STIP projects
 - MDT partner at table
 - NGO, other agencies lead?
 - Funding
 - Priority areas
 - Collaborate before project becomes a project



The End