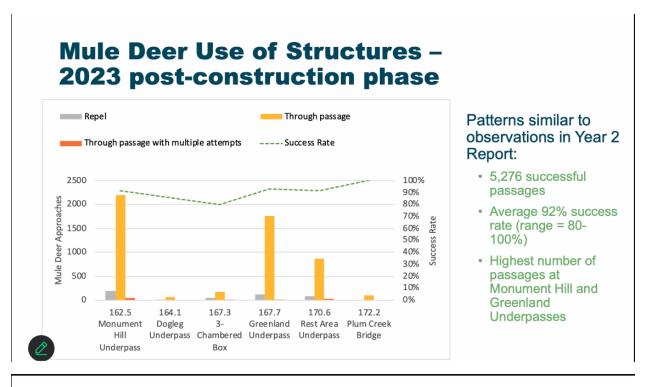
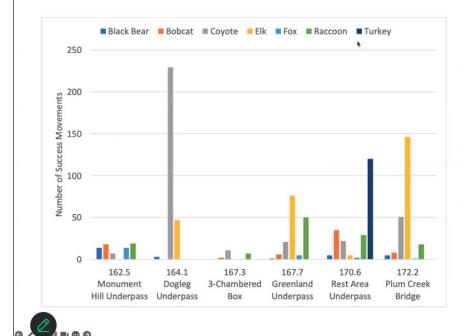
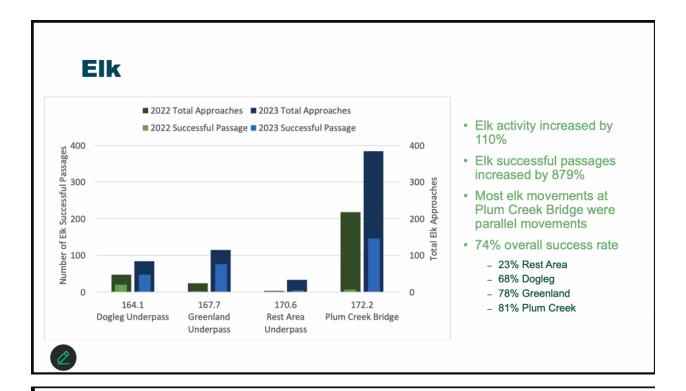
### Slides Summarizing Wildlife Usage and Impacts of Wildlife Mitigation on the I-25 Gap project 2023



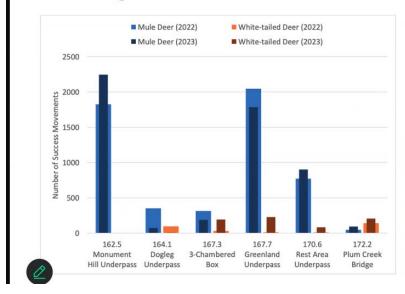
[Results lag due to processing and report compilation time]



- The number of approaches by each species increases from 2022 for all species except bobcat.
- Overall success rates >80% for all species, except elk (74%)
- Greatest species richness at Rest Area & Greenland Underpasses

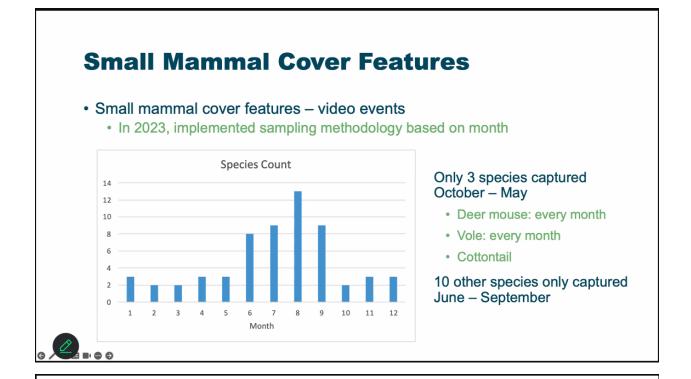


## **Muleys & White-tailed Deer**



- Mule deer detected more overall
  - Except Plum Creek Bridge





### **Small Mammal Cover Features**



- Most consistent use at Rest Area Underpass
- 19 species detected in total

• 13 unique to the cover features

Bird	Pocket gopher
Bullfrog	Shrew species
Bull snake	Squirrel
Deer mouse	Vole
Other mouse	Other vole
Ground squirrel	Weasel
Lizard	Woodrat
Mink	



<ul> <li>5 locations mor</li> <li>Misty Acres</li> </ul>		stole late	Spring
Species	Count	Breach Rate	Repel Rate
Mule Deer	44	34%	66%
White-tailed Deer	13	77%	23%
Elk	37	62%	38%
Black Bear	4	50%	50%
Coyote	5	20%	80%
Fox	8	77%	23%



Black bear successfully breaching the Upper Lake Gulch Road East Wildlife Guard



Mule deer buck repelling from the Upper Lake Gulch Road East Wildlife Guard

# **Escape Ramps**

- · Seven ramps monitored
  - Four 3:1 slope ramps
  - Three 2-sided ramps
- 90% increase in detections compared to 2022
  - Ungulate escape rate the same (44% vs 40 % in 2022)

Species	Count	Intercept Rate	Escape Rate	Successful Jump up	Unsuccessful Jump up
Ungulates	82	91%	44%	0	0
Carnivores	36	44%	25%	0	0

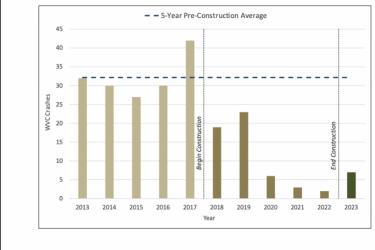


## **Northeast Fence End**

- Most ungulate movements beyond the fence end (76%)
  - 10% of movements into ROW
  - 14% of movements out of ROW
- Geocell fence end treatment of animals that approached,
  - 60% walked around Geocell
  - 20% breached Geocell
  - 20% repelled



### **Wildlife-vehicle Collisions**



#### Preconstruction (2013-2017)

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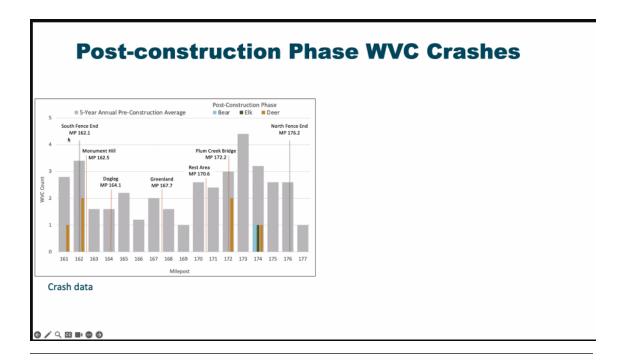
- WVC = 3<sup>rd</sup> most common crash type
- 5-year preconstruction average 32.2 WVC/year

#### Post-construction Phase (2023)

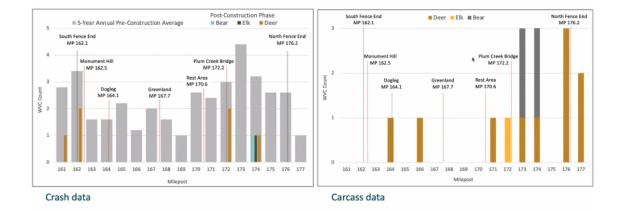
- WVCs decreased 78%
  - 7 WVC/year

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### **Post-construction Phase WVC Crashes**



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# **Progress Towards Performance Measures**

Wildlife Connectivity and Successful Passages

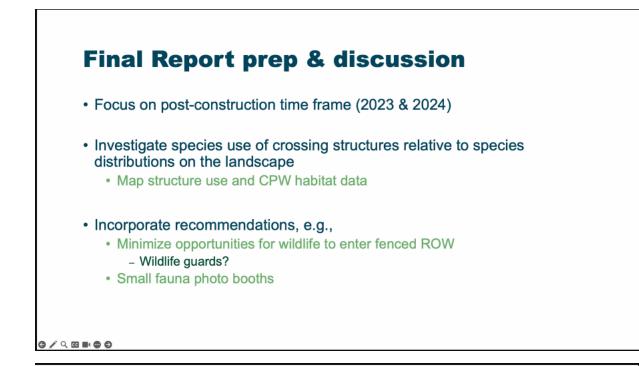
	Performance Measure	Year 3 Status
1	Mule deer success movements at each structure will increase over time; with a minimum of success rate of 80% and a goal of 90%.	<b>Partially Met.</b> Success movements decreased slightly in 2023; Success rate in 2023 was 86% or greater at each crossing location, for a combined succes rate of 92%
2	The number of successful elk passages at all structures will be at least 50% of the number of elk movements captured at associated control cameras.	<i>Met.</i> Elk use of structures is 68% of elk activity at habitat cameras.
3	Elk success movements at each structure will increase over time with a minimum success rate of 70% and a goal of 80%.	<i>Partially Met.</i> Overall success rate was 74%, ranging from 23-81%
4	Mule deer movements east-west through the crossing structures will be roughly equivalent to west-east movements.	Met.
5	Over time, mule deer and elk movements through the crossing structures will be represented by males, females, and juveniles.	Met.
6	Detections of less common species will remain constant or increase over time (e.g., pronghorn, white-tailed deer, mountain lion, black bear, bobcat).	<b>Partially Met.</b> Met for black bear and white-tailed deer.

# **Progress Towards Performance Measures**

### Motorist Safety

	Performance Measure	Year 3 Status
7	The proportion of ungulate movements at the northeast fence end that enter the fenced right-of-way will decrease to 20% or less.	Met.
8	Over time, detections of ungulates attempting to breach wildlife guards to enter the road right-of-way will decrease; and ungulates will be deterred from entering the road right-of-way at least 80% of the time.	Not Yet Met.
9	Over time, ungulate detections at escape ramps will decrease; and, of ungulates that ascend an escape ramp, the proportion that successful escape to the habitat side will increase; and no ungulates will jump up onto the ramp from the habitat side.	Not Yet Met. Partially Met. Slight increase in escape rate documented in 2023. Met.
10	The annual average number of reported WVC crashes (CDOT Traffic and Safety data) within the mitigated area will decrease over time by a minimum of 80% and with a goal of a 90% reduction compared to the five-year preconstruction average.	<b>Not Yet Met.</b> In 2023, WVC crashes decreased 78% relative to the five-year pre-construction average.

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### **Final Report Schedule and Deliverables**

Task/Deliverable	Estimated Timeline
Camera monitoring	Completed December 31, 2024
Final report analyses	Conduct on rolling basis, March – June 2025
Final reporting	Prepare on rolling basis, May – July 2025
Submit draft report to Study Panel QA/QC process statement Recommendations	July 15, 2025
Reviewer comments due	July 31, 2025
Final Report	August 15, 2025
Final Presentation to Study Panel	August 2025
Research Brief: Study results	August 2025
Digital data	August 2025
Deliverables summary	August 2025