

TENTH BIENNIAL WESTERN STATES & PROVINCES DEER & ELK WORKSHOP

Time	Monday, May 6		
1:00-5:00 p.m.	Mule deer working group meeting		
5:00-8:00 p.m.	Registration		
5:00-6:00 p.m.	Poster Session		
6:00-8:00 p.m.	EVENING SOCIAL (included with registration)		
Time	Tuesday, May 7		
7:30-10:00 a.m.	Registration continues		
7:00-8:00 a.m.	BREAKFAST (included with registration)		
	Session 1 Room A - Plenary Session, Moderator Mark Hebblewhite		
8:00-8:30 a.m.	Opening remarks/welcome Jeff Hagener, Director Montana Fish, Wildlife & Parks		
8:30-8:35 a.m.	Introduction to plenary session and participants		
8:35-9:05 a.m.	Bruce Johnson - Influence of habitat, weather, nutrition, carnivores, and hunting in limiting elk populations in a relatively mild and variable weather environment with a limited complement of large		
	carnivores: Oregon		
9:05-9:35 a.m.	P. J. White and Bob Garrott - A synthesis of elk research on Yellowstone's central and northern ranges over the past two decades		
9:35-10:05 a.m.	Eric Bergman and Andy Holland – Influence of habitat, weather, nutrition, carnivores, and hunting in limiting mule deer populations in a relatively mild weather environment, a limited complement of carnivores, and management focused on quality hunting experiences		
10:05-10:35 a.m.	Mark Hurley and Toby Boudreau - Influence of habitat, weather, nutrition, carnivores, and hunting in limiting mule deer populations in a variable weather environment, a full complement of carnivores, and management focused on providing hunter opportunity		
10:35-11:05 a.m.	George Pauley and Ken Hamlin - History of deer and elk management in Montana, with reference to how habitat, nutrition, weather, hunting, and carnivores have been considered, as an example of the evolution of management in the contiguous states		
11:05-11:35 a.m.	Jim Allen - History of deer and elk management in Alberta, Canada, with reference to how habitat, nutrition, weather, hunting, and carnivores have been considered, as an example of the evolution of management in Canada.		
11:35-12:00 p.m.	Questions and discussion		
12:00-1:00 p.m.	LUNCH (included with registration)		
	Session 2 Room A - State & Province Status	Session 2 Room B - State & Province Status	
	Updates, Moderator: Mike Mitchell	Updates, Moderator: John Vore	
1:00-1:25 p.m.	Rob Corrigan - Status of deer and elk populations in Alberta	Carlos López-González – Abundance and density of mule deer in northern Sonora and Chihuahua, México	
1:25-1:50 p.m.	Eric Bergman - Colorado deer and elk population and inventory summary	Stewart Liley - Status of deer and elk in New Mexico, 1995-2011	
1:50-2:15 p.m.	Quentin Kujala - Status of deer and elk populations in Montana, 1960-2012	Shawn Gray - Status of deer and elk populations in Texas, 2005-2011	
2:15-2:40 p.m.	Will Schultz – Status of deer and elk in Wyoming, 1990-2013	Anis Aoude - Status of deer and elk in Utah, 1990- 2013	
2:40-3:05 p.m.	Andy Lindbloom - Status of deer and elk populations in South Dakota, 2002-2011	Brian Wakeling - Status of deer and elk in Arizona, 2013	
3:05-3:25 p.m.	BREAK	BREAK	
	Session 3 Room A - State & Province Status	Session 3 Room B - State & Province Status	
	Updates, Moderator: Bruce Johnson	Updates, Moderator: Vanna Boccadori	
3:25-3:50 p.m.	Toby Boudreau - Status of deer and elk populations in Idaho, 2000-2013	Lloyd Fox and Matt Peek - Status of deer and elk populations in Kansas	
3:50-4:15 p.m.	Daryl W. Lutz – Mule deer management in Wyoming: The paradigm of a public owned resource	Kit Hams - Status of deer and elk populations in Nebraska	
4:15-4:40 p.m.	Gerald Kuzyk - Challenges to increasing mule deer abundance in British Columbia	Terri Weist – Status of deer and elk populations in California, 2000-2012	



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Time	Tuesday, May 8 (Continued)	
4:40-5:00 p.m.	Don Whittaker – Status of deer and elk populations in Oregon.	Tony Wasley - Current Status of deer and elk populations in Nevada
5:00-6:00 p.m.	State & Provincial Business Meeting	<u> </u>
6:00-8:30 p.m.	DINNER (on your own)	
Time	Wednesd	ay, May 8
7:00-8:20 a.m.	BREAKFAST (included with registration)	BREAKFAST (included with registration)
	Session 4 Room A - Elk Habitat, Moderator:	Session 4 Room B - Harvest, Survey and
	Mark Hebblewhite	Management, Moderator: Mike Thompson
8:20-8:40 a.m.	Mary Rowland - Modeling elk nutrition and habitat use across large landscapes: New methods of meta-analysis	Paul Krausman – Effects of harvest, culture, and climate on trends in size of horn-like structures in trophy ungulates
8:40-9:00 a.m.	Evelyn Merrill – Forage dynamics related to changing forest practices at Mount St. Helens, Washington	Eric Freeman - Effects of male-biased harvest on mule deer: implications for rates of pregnancy and synchrony/timing of parturition
9:00-9:20 a.m.	Kelly Proffitt – Effects of hunter access and habitat security on elk habitat selection	Mike Lewis – Selected results from resident and nonresident mule deer hunter preferences surveys conducted by Montana Fish, Wildlife & Parks
9:20-9:40 a.m.	Robert Anderson - Theoretical elk habitat change in response to prescribed burning in west-central Alberta	Craig White – 2012 Idaho elk hunter opinions and attitude survey
9:40-10:00 a.m.	Dana Seidel - Influence of foraging behaviour on home range development in elk	Victoria Edwards - Managing the North Hills/Evaro elk herd in the wildland-urban interface of Missoula, MT- adaptive management responses to shifting elk distribution and behavior
10:00-10:20 a.m.	BREAK	BREAK
	Session 5 Room A - Neonate Elk, Moderator:	Session 5 Room B - Human-Ungulate
	Peter Zager	Interactions, Moderator: Vickie Edwards
10:20-10:40 a.m.	Mark Hebblewhite - Evaluating bottom-up and top- down effects on elk survival and recruitment in the Bitterroot Valley: year two update	Steven Belinda - A paradigm shift for mitigation on public lands – Landscape mitigation, mitigation banking, and conservation credits: will mule deer and elk benefit?
10:40-11:00 a.m.	Nicole Tatman Quintana – Elk calf survival and the effectiveness of black bear removal in north-central New Mexico	Marcus Blum - Impacts of Mining on Mule Deer Migrations in Nevada
11:00-11:20 a.m.	Lance Bernal - Cause-specific mortality and survival rates of neonatal elk (<i>Cervus elaphus</i>) on the Valles Caldera National Preserve, New Mexico	Jeffrey Gagnon – Evaluation of an animal activated elk crosswalk and highway fencing retrofit to reduce elk-vehicle collisions in Arizona, USA.
11:20-11:40 a.m.	Mike Ebinger - Geo-statistical methods for detecting elk parturition sites from global positioning system collar data	Jenny Jones - Influence of winter feeding on migration strategies of elk (<i>Cervus elaphus</i>) in west-central Wyoming.
11:40-12:00 p.m.	Stewart Liley – Preliminary observations and discussion on elk parturition above timberline in north-central New Mexico	Colleen Arnison – Pervasive human influences in a terrestrial food web centered on elk
12:00-1:00 p.m.	LUNCH (included with registration)	LUNCH (included with registration)
	Session 6 Room A - Population Dynamics and	Session 6 Room B - Disease and Other Topics,
	Predation, Moderator: George Pauley	Moderator: James Heffelfinger
1:00-1:20 p.m.	Colleen Arnison - Understanding and managing elk decline in Jasper National Park	Paul Rogers – Relative impacts of elk, mule deer, and cattle on aspen habitat in the Book Cliffs, Utah and Colorado



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Time	Wednesday, May 8 (Continued)		
	Scott Eggeman - Should I stay or should I go?	Paul Cross – Elk contact patterns and potential	
1:20-1:40 p.m.	Variation in migratory behavior balances fitness in	disease transmission	
	a partially migratory elk population		
1:40-2:00 p.m.	Victoria Edwards - The collapse of the Burdette	Julee Shamhart – Elk movements and brucellosis	
	Creek elk herd in western Montana	transmission risk in southwest Montana	
2:00-2:20 p.m.	Scott McCorquodale - Abundance, productivity,	Evelyn Merrill – Incorporating movement based-	
	condition, and survival of Mount St. Helens elk,	landscape connectivity into assessments of chronic	
	2009-2013, and current elk management	wasting disease risk in the prairie provinces of	
	challenges	Canada	
	Cody Schroeder - Migration behavior, body	Teagan Hayes – Elk habitat use on degraded	
2:20-2:40 p.m.	condition, and sex differences in survival of mule	rangeland in the Sapphire Mountains, MT	
	deer		
2:40-3:00 p.m.	BREAK	BREAK	
	Session 7 Room A - Mule Deer Habitat,	Session 7 Room B - Genetics and Other	
	Moderator: Mark Hurley	Topics, Moderator: Paul Cross	
	Sophie Gilbert – Population dynamics of a forest	Kenneth Warheit – Genetic structure and diversity	
3:00-3:20 p.m.	ungulate respond to winter severity and habitat	of elk (Cervus elaphus) in Washington State	
·	alteration		
	Lisa Shipley – Effects of spring cattle grazing on the	James Heffelfinger - Hybrid swarm between	
3:20-3:40 p.m.	nutrition of mule deer in a bluebunch wheatgrass	divergent lineages of mule deer (Odocoileus	
	community	hemionus)	
	Grant Sorensen - Nutritional condition of adult	James Heffelfinger - Development of genetic	
3:40-4:00 p.m.	mule deer following habitat enhancements in	markers to identify Coues, Carmen mountain, and	
	north-central New Mexico	other whitetails	
	Sonja Smith - Winter habitat use by mule deer in	Brock Hoenes - Development of a standardized	
4:00-4:20 p.m.	Idaho and Montana	survey protocol for mule deer herds that winter in	
		the Columbia Plateau ecoregion	
	Andy James - A habitat selectivity index for desert	Adam Gaylord – Ungulate activity classification:	
4:20-4:40 p.m.	mule deer in the Apache Mountains of Trans-Pecos,	calibrating dual-axis activity monitor GPS collars for	
	Texas	Rocky Mountain elk and mule deer	
	BANQUET (included with registration)		
6:00-8:30 p.m.	Presentation of the Wallmo Award		
	Banquet Speaker: Susan Flader - Leopold's 'Thinking Like a Mountain' Revisited		
Time	Thursday, May 9		
7:00-8:30 a.m.	BREAKFAST (included with registration)		
	Session 8 Room A – Plenary Presentation/Pa	nel Discussion, Moderator: Julie Cunningham	
	Wildlife managers and administrators: Jim Hayden, Jerry Nelson, Stewart Liley, Mike Thompson, Thomas		
8:30-9:30 a.m.	Thornton, & Brian Wakeling – Restoring deer and elk again, in the era of overabundance – Is there a will,		
	and what will it take?		
9:30-10:00 a.m.	BREAK		
	Session 9 Room A - Elk and Deer Pre	esentations, Moderator: Sonja Smith	
10:00-10:20 a.m.	Tom Toman - Habitat enhancement strategy changes in elk country		
10:20-10:40 a.m.	Eric Bergman - Effect of habitat management on overwinter survival of mule deer fawns in Colorado		
10 10 11 00	Julie Cunningham - Bottom-up and top-down effects on northern Yellowstone elk pregnancy and		
10:40-11:00 a.m.	recruitment rates		
11:00-11:20 a.m.	Pete Zager - Untangling Rocky Mountain elk ecology and population dynamics: a regional synthesis across		
	the northwestern U.S.		
11:20-11:40 a.m.	Paul Lukacs - The Montana deer and elk hunting population: Importance of cohort group, license price,		
	and population demographics on hunter retention, recruitment, and population change		
44.40.10.00	Simone Ciuti - Trade-offs between predation risk and food quality re-distribute elk across a road network:		
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11:40-12:00 p.m.	not all roads are equal		