

**Appendix 4. Lynx Expert Panel Candidates - Lynx SSA Expert Elicitation Workshop, October 13-15, 2015, Minneapolis, Minnesota**

Expert Candidate	Geographic Area	Affiliation	Expertise
Clayton Apps	Southern British Columbia & Alberta	Independent Researcher, Aspen Wildlife Research Inc.	Dr. Apps is an independent research ecologist whose work in western Canada over the past 24 years has focused on understanding and predicting relationships of wide-ranging species with habitat and human influence across scales to support environmental assessment and conservation planning. He is especially interested in spatial and temporal factors affecting species movements, habitat selection, abundance, distribution and survival. Within the southern Canadian Rocky Mountains, Dr. Apps carried out a 5-year study of lynx ecology representing his dissertation research, and he has conducted several other shorter-term field and modeling projects pertaining to lynx. Clayton has also recently authored British Columbia's current lynx management plan.
Keith Aubry	Washington/Northwest	USDA Forest Service - Pacific Northwest Research Station, Olympia, WA (retired)	Dr. Aubry is an Emeritus Scientist (formerly Research Wildlife Biologist) with the U.S. Forest Service's Pacific Northwest Research Station in Olympia, WA. He has been conducting research on terrestrial wildlife in the Pacific Northwest for almost 40 years. Recently, his research has focused on generating new information that will enable conservation biologists and resource managers to make more-informed decisions about the conservation status of rare and elusive forest carnivores, including the fisher, Canada lynx, Cascade and Sierra Nevada red foxes, coastal marten, and wolverine. Dr. Aubry was a member of several national scientific teams, including the Forest Carnivore Conservation Assessment Team, the Lynx Science Team, and the Wolverine Science Team, and was the leader of the Fisher Science Team. He has directed several multi-year field studies of the Canada lynx in the North Cascades of Washington, and has authored or co-authored a number of peer-reviewed publications on lynx conservation, their distribution in the contiguous U.S., their ecology and population dynamics, and the risk of relying on anecdotal occurrence data for conserving rare or elusive species.
Jeff Bowman	Southern Canada/Ontario	Ontario Ministry of Natural Resources and Forestry, and University of Trent, Ontario	A Research Scientist with the Wildlife Research & Monitoring Section, Ontario Ministry of Natural Resources and Forestry and an Adjunct Professor in the Environmental & Life Sciences Graduate Program, Trent University, Dr. Bowman's focus is on population and landscape ecology. He and his colleagues and graduate students have published many peer-reviewed articles on lynx landscape ecology and genetics at the population's southern range boundary in Ontario in an effort to assess the functional connectivity and population dynamics of lynx at their southern range periphery.
Susan Catton	Minnesota/Great Lakes	USDA Forest Service – Superior National Forest	Susan has been working as a biologist on the Superior National Forest (SNF) since 2001 and is an expert on lynx biology, ecology, and management on the SNF. She has participated in surveys for the species and is very knowledgeable about lynx and their habitat on the SNF. Susan is a current member of the Interagency Lynx Biology Team.

Tim Catton	Minnesota/Great Lakes	USDA Forest Service – Superior National Forest	Tim is a biologist on the SNF and for a number of years has been leading a lynx tracking project to detect and monitor lynx populations across the SNF. Tim and others (e.g., Dan Ryan, SNF) have been collecting lynx genetic material to augment an existing lynx DNA database and further the knowledge of lynx presence and persistence on the SNF and in Minnesota.
Dan Harrison	Maine/Northeast	University of Maine	Dr. Harrison has been the principle advisor for many University of Maine graduate students working on snowshoe hares and forest management, lynx history, and lynx spatial and habitat/occupancy models. He and his students have published extensively, and he is considered one of the top hare, lynx, and habitat modeling experts in North America.
Karen Hodges	Southern Canada/DPS-wide (hares)	University of British Columbia–Okanagan	Dr. Hodges is an Associate Professor in the Department of Biology at the University of British Columbia – Okanagan, where she focuses her research on how range position and habitat configuration affect species interactions and endangerment of at-risk species, understanding population dynamics at the periphery of species’ ranges, and on snowshoe hare population dynamics. She has authored and co-authored many peer-reviewed hare articles.
Jake Ivan	Colorado/Southern Rocky Mountains	Colorado Parks and Wildlife	Dr. Ivan, a Wildlife Researcher with CPW’s Mammals Research Section, has conducted research and published peer-reviewed articles on hares and lynx in Colorado and the Southern Rockies and has developed a non-invasive monitoring strategy to track Colorado’s lynx population.
Gary Koehler	Washington/Northwest	Washington Department of Fish and Wildlife (retired)	Dr. Koehler, a retired Research Biologist, has conducted research on lynx and hares in Washington for more than 30 years. Also a member of the Lynx Science Team, his research was among the earliest to investigate lynx and hare habitat relationships and the effects of forest management practices in the Lower 48 states. He has published numerous peer-reviewed articles on lynx conservation ecology in southern boreal forests, lynx and hare surveys, habitat and topographic use patterns, and management of spruce-fir forests to conserve hares and lynx.
Jay Kolbe	Northern Rocky Mountains	Montana Fish Wildlife and Parks	Jay has worked for over a decade on lynx research and management in western Montana and has authored and co-authored numerous peer-reviewed lynx publications on topics including trap-design, lynx activity patterns, denning, snow-tracking, radio-telemetry, seasonal resource selection, predicting dispersal corridors, and effects of recreation.
Kevin McKelvey	DPS-wide (distribution)	USDA Forest Service - Rocky Mountain Research Station, Missoula, MT	A Research Ecologist, Dr. McKelvey works to develop methods to evaluate status and trends of organisms across broad spatial and temporal scales, including genetic monitoring techniques to measure population connectivity across complex landscapes. He was a member of the Lynx Science Team and was the Science lead for the National Lynx Survey, which provided reliable presence/absence data for lynx on over 50 national forests, 5 national parks, and numerous other areas managed by the BLM and several Tribal Nations. He has authored and co-authored many peer-reviewed articles on lynx conservation, history and distribution in the Lower 48, and population ecology/dynamics, and on the dangers of relying on anecdotal occurrence data for rare or elusive species.

Ron Moen	Minnesota/Great Lakes	University of Minnesota and Natural Resources Research Institute	Since 2003, Dr. Moen has studied lynx to understand their distribution, abundance, persistence, movements and habitat use in and near the Superior National Forest in northeastern Minnesota as well as conducting some studies in the greater Upper Great Lakes Region (including Wisconsin and Michigan). He has authored numerous reports and manuscripts on his studies of lynx in Minnesota, and he and his graduate students also conducted studies that used pellet counts to estimate snowshoe hare numbers.
Garth Mowat	Southern British Columbia & Alberta	British Columbia Ministry of Forests, Lands and Resource Operations	Dr. Mowat manages the Research Section for the Resource Stewardship Division in the Kootenay Region of British Columbia, Canada, where his current research varies from geomorphology to ecosystem classification and wildlife ecology, particularly population dynamics of mammals. Garth has published many peer-reviewed articles on lynx including behavior and natural history, capture and immobilization techniques, lynx and hare population dynamics, and lynx pregnancy rates and litter sizes.
Kerry Murphy	Wyoming/Greater Yellowstone	USDA Forest Service	Dr. Murphy is the Zone Wildlife Biologist on the Bridger-Teton National Forest (B-TNF) stationed in Jackson, Wyoming. He has extensive experience monitoring, managing, and surveying Canada lynx and their habitat, and in documenting aspects of other carnivore populations. From 2000-2005, Kerry worked in Yellowstone National Park cooperatively with the Rocky Mountain Research Laboratory, Missoula, to document lynx presence and distribution, and worked with researchers to document snowshoe hare abundance, distribution, and habitat affinities in the park. On the B-TNF, Kerry worked to document snowshoe hare abundance and population trends in different forest types, and lynx presence and distribution. He also recently assisted the U.S. Fish and Wildlife Service by providing a peer-review of the proposed rule revising the lynx critical habitat designation.
Dennis Murray	Southern Canada/Ontario	University of Trent, Ontario	Dr. Murray is the Canada Research Chair in Integrative Wildlife Conservation, Bioinformatics, and Ecological Modeling and a Professor of Biology at Trent University. He also serves on the Scientific Advisory Committee for the Canadian Institute of Ecology and Evolution, the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), and the IUCN Lagomorph Specialist Group. He has authored and co-authored many peer-reviewed articles on lynx, including conservation needs at the southern edge of the species' range, genetics and functional connectivity among lynx populations, hare habitat and response to forestry management, lynx-bobcat competition, and impacts of climate change on southern lynx populations.
Michael Schwartz	DPS-wide (genetics)	USDA Forest Service - National Genomics Center for Wildlife and Fish Conservation	Director of the National Genomics Center, Dr. Schwartz focuses on population, conservation, and landscape genetics/genomics, genetic monitoring, and the ecology of threatened and endangered species. He has investigated and published peer-reviewed results on lynx genetic variation, population structure, and population connectivity, including documentation of Canada lynx-bobcat ( <i>Lynx canadensis</i> x <i>L. rufus</i> ) hybrids at the southern periphery of lynx range in Maine, Minnesota and New Brunswick. He and colleagues also have validated DNA collection as a means of documenting lynx presence and they have developed DNA markers for identifying individual snowshoe hares using field-collected pellets.

Erin Simons-Legaard	Maine/Northeast	University of Maine	An Assistant Research Professor in forest landscape modeling, Dr. Simons-Legaard and her colleagues have developed a forest landscape change model to do retrospective, current, and future forecasts of forest conditions in northern Maine. She has been refining methods for forecasting effects of spruce budworm and climate change on Maine's forest, which she is using to expand her lynx habitat model. This will enable her to forecast future conditions for lynx in Maine considering anticipated changes from climate change effects on Maine's forest composition, current trends in Maine forestry practices, and spruce budworms. Erin has authored and co-authored several peer-reviewed publications on lynx and also recently assisted the U.S. Fish and Wildlife Service by providing a peer-review of the proposed rule revising the lynx critical habitat designation.
John Squires	Northern and Southern Rocky Mountains (Montana, Wyoming, Colorado)	USDA Forest Service - Rocky Mountain Research Station, Missoula, MT	A Research Wildlife Biologist, Dr. Squires leads a team of researchers responsible for discovering and synthesizing information that is needed to conserve threatened, endangered, and sensitive forest carnivores throughout the Rocky Mountains. Also a member of the Lynx Science Team, John has published many peer-reviewed articles on lynx conservation, habitat use/selection, dispersal, denning, developing and improving survey and monitoring techniques, and the effects of forest management and recreation on lynx. He also recently assisted the U.S. Fish and Wildlife Service by providing a peer-review of the proposed rule revising the lynx critical habitat designation.
Jennifer Vashon	Maine/Northeast	Maine Department of Inland Fish and Wildlife	Jennifer led a 10-year study of lynx in Maine, published two manuscripts in the Journal of Wildlife Management in 2008, and co-authored other manuscripts with Dr. Harrison's graduate students and other lynx researchers. In 2012, she authored a Canada lynx assessment for the State of Maine, which summarizes published and unpublished data from the 10-year study and summarizes current knowledge of lynx in Maine.