

CURRICULUM VITAE - DONALD V. GAYTON

CITIZENSHIP: Canadian/American dual citizen

DEGREES: **M.Sc., Plant Ecology, University of Saskatchewan**
Saskatoon, Sask. 1977.

Course work in Plant Ecology and Plant Physiology

Thesis: Leaf Growth and Response to Defoliation in *Agropyron smithii*.

B.Sc., Agronomy, Washington State University

Pullman, Wash. 1971. Courses in Agronomy, Soils, Biology, Plant Physiology.

EMPLOYMENT:

Current: self-employed consultant. Skillsets: vegetation monitoring/mapping; invasive plants; species at risk; grassland and dry forest ecology; fire ecology; ecological restoration; wetland restoration; public outreach; farming/ranching liaison; First Nations issues; technical writing and editing; science extension; research and literature reviews.

Ecologist, FORREX, 1998 to 2013.

Plan and undertake a full range of extension activities, events and author publications on behalf of a non-profit natural resource research and extension society. Fields of specialization: range and grassland management; vegetation monitoring, ecosystem management, ecosystem restoration, fire-maintained ecosystems, climate change, endangered species management, integration of indigenous peoples knowledge and western science. Stay abreast of current research in those fields, and summarize information on behalf of extension clients. Extension audience consisted of personnel in government ministries, ENGO's, resource industries, First Nations and citizen groups. Editor, Journal of Ecosystems and Management (www.forrex.org/jem). All FORREX staff laid off Feb. 2013.

Regional Range Ecologist, BC Ministry of Forests and Range, Nelson BC. 1993 to 1998.

Develop procedures for range condition and productivity determinations; establish and monitor benchmark range exclosures; provide regional assistance in rangeland inventory; Regional Range liaison to Provincial Kootenay-Boundary Land Use Plan and Protected Areas Strategy; represent Forest Service on major 7 yr. agriculture/wildlife conflict resolution project in the Rocky Mountain Trench; provide range input into fire-maintained ecosystem restoration initiatives. Implemented Range Reference Areas Program for Nelson Region; identified, built and established detailed permanent vegetation plots in 35 grazing exclosures and control plots in various ecological subzones.

Regional Range Officer, BC Ministry of Forests and Range, Nelson BC. 1990 to 1993.

Provide administrative supervision (acting) to Range program in Nelson Region, including 12 District field staff and annual operating budget of \$600,000; assist in comprehensive Province-wide review of range policy and procedures; provide liaison between District offices and Victoria; establish regional priorities for range improvements; resolve tenure issues.

Forage and Range Management Specialist, Saskatchewan Dept. of Agriculture, Regina, 1985 to 1990
Advise extension personnel, other specialists, individual producers and industry on forage production, range management, forage seed and processed alfalfa production. Prepare and update pamphlets, bulletins, press releases and videos. Advise Minister on issues relating to forage and range policy. Promote continuous flow of technical information between scientists and producers. Manage Canadian Forage Seed Project operations in Sask. Supervise and provide technical advice on federally-funded forage related projects. Work with industry and producer groups on economic development initiatives.

Agricultural Land Assessor, Saskatchewan Assessment Authority, Regina, SK. 1984 to 1985.
Field measurement of agronomic and economic factors affecting cultivated and range land productivity, with emphasis on soils; calculation of land assessment.

Farm Management Specialist, Marketing and Economics Branch, Saskatchewan Department of Agriculture, Regina. 1983 to 1984. Research energy use in farming sector; assist in design of Farm Business Analysis Program; implement greenhouse industry tax changes. Transferred to Assessment.

Agricultural Research Officer, Office of Energy Conservation, Regina. 1981 to 1982
Investigate and document energy conserving measures in agriculture. Perform cost-benefit analyses and economic projections of conservation options. Collect and disseminate relevant information.

Agricultural Representative, Saskatchewan Indian Agriculture Program, Fort Qu'Appelle, 1978-1981.
Provide agricultural extension and financial assistance to native farmers on 16 Reserves in southern Sask. Manage affairs of S.I.A.P Field Office plus three employees. Liaise with Chiefs, Band Councils and relevant government agencies. Prepare funding applications, project reports and newsletters. Supervise land clearing contracts. Successful performance in a unique ethnocultural and political environment.

CONTRACTS AND SPECIAL PROJECTS-British Columbia:

Current: Project manager, Okanagan Wetlands Strategy, Okanagan Basin Water Board
2016: Contract editing, Interior Health Authority Thompson Div. Of Family Practice
2016: Comprehensive endangered species threat assessment (Okanagan) for COSEWIC
2015: Agricultural feasibility study for Lower Similkameen Indian Band
2015: Endangered plant species assessment (Osoyoos), BC Ministry of Environment
2014: Lac du Bois (Kamloops area) ecological restoration planning, BC Ministry of Forests
2014: Ecological consulting contract with Lower Similkameen Band
2014: Brink/McLean Award for remonitoring of grazing exclosures in the White Lake Basin
2014: Writer and technical editor, Rocky Mtn. Trench Ecosystem Restoration Program Blueprint for Action
2013: Forage sampling Min. of Forests, Lands and Natural Resource Operations (MFLNRO) contract.
2013: Re-monitoring of long-term grassland research site for MFLNRO (contract).
2002-2013: teach annual 2 day Grass Identification/Grassland Ecology Workshops (various locations).
2012: Preliminary age-class determination of current forest canopy, Trout Creek Ecological Reserve, for BC Ministry of Environment (MOE) (contract).
2010-2011: Fire history analysis of Trout Creek Ecological Reserve, for Okanagan-Shuswap Ecological Restoration Committee (contract).
2010: Analysis of insect biocontrol impacts on diffuse knapweed for BC Ministry of Forests (contract)
2010: Research impacts of recreational horse grazing on Crown Land for BC Ministry of Forests (contract)
2009: Research and write extension bulletin on ecosystem resilience for BC Ministry of Forests (contract)
2009: Organize and co-host 3 workshops on Grassland Species at Risk
2008: Research ecosystem trends in Western Interior Basin for Federal Ministry of Environment (contract)
2007: Research and write interpretive material for Kootenay National Park for Parks Canada (contract)

2007: Locate and catalogue all grassland and range management reports from East Kootenays, 1940's to present, for Rocky Mtn. Forest District (contract)
2005-06: Assist with the establishment of viticultural trials in Lillooet-Lytton area (contract)
2002-3: Ecological review of Gilpin Grasslands area for BC Ministry of Environment (contract).
2001: Wrote curriculum and taught ER338a, a week-long course in Grassland Restoration for the Restoration of Natural Systems Program, Univ. of Victoria, Kamloops, BC, July, 2001.
2001: Co-organized and hosted conference on "Linking Indigenous Peoples' Knowledge and Western Science in Natural Resource Management," Chase, BC,
2000: Research and write history of the Nelson Forest Region (contract)
2000: Organized and hosted technical workshop on Stand Attributes in Fire Maintained Forests, Kamloops
1999: Organized and hosted Ecosystem Restoration Conference, Cranbrook
1999: Presented technical paper on fire ecology to US Society for Ecological Restoration Conf.
1996: Partnered in script development for Westland Television Series program on prescribed burning.
1996: Co-author Fire Maintained Ecosystem Restoration Guidelines, Kootenay-Boundary Land Use Plan.
1995-1998: Establish and monitor 35 long-term grazing exclosures, for BC Ministry of Forests.
1993 to present: collaborate on various ecological restoration initiatives in East Kootenay Trench and South Okanagan area. Member of Okanagan-Shuswap Ecosystem Restoration Committee.
1990-1999: project manager, East Kootenay Trench Agriculture Wildlife Committee

CONTRACTS AND SPECIAL PROJECTS-Saskatchewan:

1988-9: Secured funding and supervised contract on forage seed export development.
1987: Initiated and supervised production of instructional video (legume inoculation) SDA.
1987: Supervised and interpreted survey of producer attitudes toward grassland management.
1985: Procured exhibits for Sask. Science Centre exposition, Regina Exhibition.
1982-3: Designed and implemented first detailed weed survey on Saskatchewan Indian Reserves.
1983: Delegate to Canadian Council of Science Centres Founding Convention, Toronto.
1983: Implemented greenhouse business tax law revision, Saskatchewan Department of Agriculture.

AWARDS:

Brink/McLean Grassland Conservation Fund Award, 2014
Peace Corps Travel Writing Award (for *Okanagan Odyssey*) 2011
Roderick Haig-Brown Writer in Residence, University of Victoria, 2009
Roberts-Pichette Award for ecological monitoring and research, 2003
Shortlisted for BC Book Awards (non-fiction) 2001, 2007
BC Arts Council Writing Award, 2004
Canada Council Writing Grant recipient, 1995, 1999
Canadian Forest Service Science Journalism Award, 1998
U.S. National Outdoor Book Award, Outdoor Literature Category, 1998
Saskatchewan Writers' Guild Non fiction Award, 1988.
L.H. Hantelman Scholarship, Univ. of Sask., 1978.

APPOINTMENTS/DIRECTORSHIPS:

Member, British Columbia Institute of Professional Agrologists, 1989-present
Board of Directors, Summerland Ornamental Garden, 2009 to 2013
Non-fiction Judge, British Columbia Book Awards, 1999
President, Pacific Northwest Section, Society for Range Management (SRM), 1998-1999
Board of Directors, Pacific Northwest Section, SRM, 1993-1999
Board of Directors, Saskatchewan Science Centre 1981-1989.
Board of Directors, Agribition Grain and Forage Show, 1986-90
Board of Directors and Co-founder, Saskatchewan Forage Council, 1987-90

TECHNICAL PUBLICATIONS

- (2014): **Grassland and Forest Understory Vegetation Monitoring: an Introduction to Field Methods.** Journal of Ecosystems and Management (JEM) 14(3)
<http://jem.forrex.org/index.php/jem/article/view/173/494>
- 2014: **BC Grassland Resources and Climate Change.** JEM 14(2) 1-16.
<http://jem.forrex.org/index.php/jem/article/view/135/495>
- 2013: **Documenting Fire History on a British Columbia Ecological Reserve.** Journal of Ecosystems and Management (JEM) 14(1): 1-10. <http://jem.forrex.org/index.php/jem/article/view/161/485>
- 2012: **Impact of Biological Control on Two Knapweed Species in British Columbia** (with Val Miller). JEM 13(3). <http://jem.forrex.org/index.php/jem/article/view/136>
- 2012: **Post-Disturbance Management of Biodiversity in BC Forests** (with Pedro Lara Almuedo) JEM 13(1) p. 77-85.
- 2011: **Ecological Restoration in Lillooet.** JEM 12(3): 12-15
- 2011: **Barns and Bytes.** Canadian Geographic, October, 2011
- 2011: **River Rhythms.** Canadian Geographic, June, 2011
- 2010: lead author, Western Interior Basin Ecozone report in **Canadian Biodiversity: Ecosystem Status and Trends 2010.** Canadian Council of Resource Ministers, Ottawa, Ont.
- 2008: **Impacts of Climate Change on British Columbia's Biodiversity: A Literature Review.** FORREX Series 23. 24 pages.
- 2007: **Grasslands Splendor.** Canadian Geographic, July/August 2007
- 2006: **Fire History of a Western Montana Grassland: A Pilot Study.** Professional Paper Series #23, Indiana St. Univ. Dept. of Geography. p. 30-36
- 2004: **Native and Non-Native Species in Grazed Grasslands of British Columbia's Southern Interior.** JEM 5(1):51-59
- 2003: **An Examination of Community-based Ecosystem Monitoring** (co-author with Patrick Yarnell) Forest Research Extension Partnership (FORREX) Series No.13. Kamloops. 49p.
- 2003: **British Columbia Grasslands: Monitoring Vegetation Change.** Forest Research Extension Partnership (FORREX) Series No. 7. Kamloops. 49p., illus.
- 2002: **Linking Indigenous Peoples' Knowledge and Western Science in Natural Resource Management** (conference proceedings co-edited with Henry Michel) FORREX Ser. 4, 81pp.
- 2002: **Little Bluestem and the Geography of Fascination** (nature essay in book) in Eye in the Thicket, Sean Virgo, ed. Thistle-down Press, Saskatoon, SK.
- 2001: **Ground Work: Basic Concepts of Ecological Restoration in BC.** FORREX Ser. 3. 25pp.

TECHNICAL PUBLICATIONS (cont'd)

1999: **The Cartography of Catastrophe: Harlen Bretz and the Great Spokane Flood.** Mercator's World, May-June 1999 Vol 4 (3) p. 54-61.

1998: **Final Report, East Kootenay Trench Agriculture Wildlife Committee** (co-authored with Maurice Hansen) Ministry of Forests, Victoria. 94pp.

1998: **Healing Fire** (article on fire ecology) Canadian Geographic, Jul/Aug, 1998, pp. 32-42.

1997: **Cry of the Wild** (endangered species article) Canadian Geographic May/June, pp. 30-42

1996: **Turf Wars** (crested wheatgrass article) Canadian Geographic May/June 1996, pp. 70-78.

1991: **Grazing Pressure on Saskatchewan Rangelands** Rangelands, 13(3):107-108.