

**Publications Written or Co-authored**

**by E. Wheaton**

**(1980 to March 2011)**

(Refereed manuscripts are marked by “\*”)

**SCIENTIFIC JOURNALS**

**2011**

- \*Hanesiak, J., R. Stewart, B. Bonsal, P. Harder, R. Lawford, R. Aider, B. Amiro, E. Atallah, A. Barr, T. Black, P. Bullock, J. Brimelow, R. Brown, H. Carmichael, C. Derksen, L. Flanagan, P. Gachon, H. Greene, J. Gyakum, W. Henson, E. Hogg, B. Kochtubajda, H. Leighton, C. Lin, Y. Luo, J. McCaughey, A. Meinert, A. Shabbar, K. Snelgrove, K. Szeto, A. Trishchenko, G. van der Kamp, S. Wang, L. Wen, E. Wheaton, C. Wielki, Y. Yange, S. Yirdaw, T. Zha. 2011 March. Characterization and Summary of the 1999-2005 Canadian Prairie Drought. *Atmosphere-Ocean*. Accepted.
- \*Bonsal, B., E. Wheaton, A. Meinert, and E. Siemens. 2011 February. Characterizing the Surface Features of the 1999-2005 Canadian Prairie Drought in Relation to Previous Severe 20<sup>th</sup> Century Events. *Atmosphere-Ocean*. Accepted.
- \*Bonsal, B., E. Wheaton, A. Chipanshi, C. Lin, D. Sauchyn, and L. Wen. 2010. *Drought Research in Canada: A Review*. Original manuscript received Feb 9, 2010; accepted June 28, 2010. *Atmosphere-Ocean*. SRC Publication No. 11602-1A11.
- \*Wittrock, V., S.N. Kulshreshtha, and E. Wheaton. 2011 September. Canadian Prairie Rural Communities: Their Vulnerabilities and Adaptive Capacities to Drought. *Mitigation and Adaptation Strategies for Global Change*, 16:267-290. DOI 10.1007/s11027-1-010-9262-x. Saskatchewan Research Council Publication No. 11899-6E10.
- \*Pittman, J., V. Wittrock, S.N. Kulshreshtha, E. Wheaton. 2011. *Vulnerability to Climate Change in Rural Saskatchewan: Case Study of the Rural Municipality of Rudy No. 284*. *Journal of Rural Studies* 27:83-94. DOI 10.1016/j.jrurstud.2010.07.004. Saskatchewan Research Council Publication No. 11899-7E10.

**2009**

- \*Diaz, H., S. Kulshreshtha, B. Matlock, E. Wheaton, and V. Wittrock. 2009 Spring. Community Case Studies of Vulnerability to Climate Change: Cabri and Stewart Valley, Saskatchewan. *Prairie Forum* 34(1):261-288. Saskatchewan Research Council Publication No. 11899-4E09.

**2008**

- \*Wheaton, E., S. Kulshreshtha, V. Wittrock, G. Koshida. 2008 Summer. Dry Times: Lessons from the Canadian Drought of 2001 and 2002. *The Canadian Geographer* 52(2):241-262. Saskatchewan Research Council (SRC) Publication No. 11927-6A06.
- \*Marchildon, G.P., Kulshreshtha, S., Wheaton, E., Sauchyn, D. 2008 June. Drought and Institutional Adaptation in the Great Plains of Alberta and Saskatchewan, 1914 – 1939. *Natural Hazards* 45:391-411. SRC Publication No. 11899-6A07.

## 2005

- \* Bonsal, B. and E. Wheaton. 2005. Atmospheric Circulation Comparison between the 2001 and 2002 and the 1961 and 1988 Canadian Prairie Droughts. *Atmosphere-Ocean* **43**(2):163-172. Saskatchewan Research Council (SRC) Publication No. 11602-4A05.
- \* MacIver, D.C. and E. Wheaton. 2005. Tomorrow's Forests: Adapting to a Changing Climate. *Climatic Change* **70**:273-282. Saskatchewan Research Council (SRC) Publication No. 11632-6A05.

## 1999

- \*Wheaton, E. 1999. Agriculture in a Changing Climate. *PBI Bulletin* May. Plant Biotechnology Institute, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11182-1A99.
- \*Wheaton, E. and D.C. MacIver. 1999. A Framework and Key Questions for Adapting to Climate Variability and Change. *Mitigation and Adaptation Strategies for Global Change* **4**:215-225. Saskatchewan Research Council (SRC) Publication No. 10442-3A00.

## 1998

- \*Williams, G.D.V. and E. Wheaton. 1998. Estimating Biomass and Wind Erosion Impacts for Several Climatic Scenarios: A Saskatchewan Case Study. *Prairie Forum* **23**(1):49-66. Saskatchewan Research Council (SRC) Publication No. E-2900-12-E-95.

## 1995

- \*Maybank, J., B. Bonsal, K. Jones, R. Lawford, E.G. O'Brien, E.A. Ripley and E. Wheaton. 1995. Drought as a Natural Disaster. *Atmosphere-Ocean* **33**(2):195-222. Saskatchewan Research Council (SRC) Publication No. E-2900-8-A-95.

## 1992

- \* Wheaton, E. 1992. Using Climatic Change Scenarios to Estimate Ecoclimatic Impacts. *Canadian Geographer* **36**(1):67-69. Saskatchewan Research Council (SRC) Publication No. E-2900-11-A-92.
- \*Wheaton, E. 1992. Prairie Dust Storms - A Neglected Hazard. *Natural Hazards* **5**:53-63. Saskatchewan Research Council (SRC) Publication No. E-2330-1-D-89.
- \*Wheaton, E., L.M. Arthur, B. Chorney, S. Shewchuk, J. Thorpe, J. Whiting and V. Wittrock. 1992. The Prairie Drought of 1988. *Climatological Bulletin* **26**(3):188-205. Saskatchewan Research Council (SRC) Publication No. E-2330-4-A-90.

## 1991

- \*Singh, T. and E. Wheaton. 1991. Boreal Forest Sensitivity to Global Warming: Implications for Forest Management in Western Interior Canada. *Forestry Chronicle* **67**(4):342-348. Saskatchewan Research Council (SRC) Publication No. E-2330-4-A-91.

**1990**

- \*Wheaton, E. 1990. Frequency and Severity of Drought and Dust Storms. *Canadian Journal of Agricultural Economics* **38**:695-700. Saskatchewan Research Council (SRC) Publication No. E-2330-5-D-90.
- \*Wheaton, E. and A.K. Chakravarti. 1990. Dust Storms in the Canadian Prairies. *International Journal of Climatology* **10**:829-837. Saskatchewan Research Council (SRC) Publication No. E-906-42-A-88.

**1989**

- \*Wheaton, E. and T. Singh. 1989. Exploring the Implications of Climatic Change for the Boreal Forest and Forestry Economics of Western Canada. *Climate Change Digest CCD* **89-02**. Saskatchewan Research Council (SRC) Publication No. E-906-61-A-88.

**1988**

- \*Wheaton, E. and A.K. Chakravarti. 1988. Evaluating the Climatic Data Base of a Large Area with few Reporting Stations: A Case Study of Northern Saskatchewan. *Musk-Ox* **36**:15-18. Saskatchewan Research Council (SRC) Publication No. E-906-46-A-84.
- \*Williams, G.D.V., R.A. Fautley, K.H. Jones, R.B. Stewart and E. Wheaton. 1988. Estimating Effects of Climatic Change on Agriculture in Saskatchewan, Canada. *Climate Change Digest CCD* **88-06**. Atmospheric Environment Service, Downsview, ON. Saskatchewan Research Council (SRC) Publication No. E-906-41-A-87.

**1987**

- \*Wheaton, E. and A.K. Chakravarti. 1987. Some Temporal, Spatial and Climatological Aspects of Dust Storms in Saskatchewan. *Climatological Bulletin* **21**(2):5-16. Saskatchewan Research Council (SRC) Publication No. E-906-39-A-86.

**BOOKS AND BOOK CONTRIBUTIONS****2010**

- \*Kulshreshtha, S., V. Wittrock, L. Magzul and E. Wheaton. 2010. *Impacts and Adaptations to Extreme Climatic Events in an Aboriginal Community: A Case Study of the Kainai Blood Indian Reserve*. Chapter 14 in Sauchyn, D., P. Diaz, and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, Regina, SK.
- \*Wheaton, E. and S. Kulshreshtha. 2010. Agriculture. Chapter 7 in Sauchyn, D., P. Diaz, and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, Regina, SK.
- \*Wheaton, E., S. Kulshreshtha and V. Wittrock. 2010. *Assessment of the 2001 and 2002 Drought Impacts in the Prairie Provinces, Canada*. Chapter 16 in Sauchyn, D., P. Diaz, and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, Regina, SK.

## 2009

- \*Diaz, H., S. Kulshreshtha, B. Matlock, E. Wheaton and V. Wittrock. 2009. Community Case Studies of Vulnerability to Climate Change: Cabri and Stewart Valley, Saskatchewan. Marchildon, G. (editor). *A Dry Oasis, Institutional Adaptation to Climate on the Canadian Plains*. Canadian Plains Research Center, University of Regina, Regina, SK. Pp261-288. Saskatchewan Research Council Publication No. 11899-4E09.

## 2008

- \* Sauchyn, D., and S. Kulshreshtha (lead authors), E. Barrow, D., Blair, J. Byrne, D. Davidson, P. Diaz, N. Henderson, D. Johnson, M. Johnston, S. Kienzle, J. Klaver, J. Thorpe and E. Wheaton (contributing authors). 2008 February. Prairies; In: Lemmen, D.S., F.J. Warren, J. Lacroix, and E. Bush (eds.) *From Impacts to Adaptation: Canada in a Changing Climate 2007*. Government of Canada, Ottawa, ON, p. 275-328. Saskatchewan Research Council (SRC) Publication No. 11299-2A08.

## 2007

- \*Wheaton, E.E. 2007 December. Focus Study 3.1 Drought. In: Thraves, B.D., M.L. Lewry, J.E. Dale, and H. Schlichtmann (eds), *Saskatchewan: Geographic Perspectives*. University of Regina, Regina, Saskatchewan. SRC Publication No. 11927-13A07, p. 49-52.
- \*Wheaton, E.E. 2007 December. Focus Study 3.2 Dust Storms. In: Thraves, B.D., M.L. Lewry, J.E. Dale, and H. Schlichtmann (eds), *Saskatchewan: Geographic Perspectives*. University of Regina, Regina, Saskatchewan. SRC Publication No. 11927-11A07. p. 53-56

## 2005

- \* Wheaton, E. 2005. Dust Storms. In: *The Encyclopedia of Saskatchewan*. Canadian Plains Research Center, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11182-3A05. p 263-4.

## 2001

- \* Cohen, S., K. Miller, K. Duncan, E. Gregorich, P. Groffman, P. Kovacs, V. Magana, D. McKnight, E. Mills, D. Schimel, G. Chichilnisky, D. Etkin, R. Fleming, K. Hall, S. Meyn, J. Patz, R. Pulwarty, D. Scott, G. Wall (E. Wheaton - Review Editor). 2001. North America. In: McCarthy, J.J., O.F. Canziani, N.A. Leary, D.J. Dokken, and K.S. White (eds), *Climate Change 2001: Impacts, Adaptation, and Vulnerability*, pp. 735-800. Intergovernmental Panel on Climate Change [IPCC] Working Group II. Cambridge University Press, New York, New York. Saskatchewan Research Council (SRC) Publication No. 11150-1E02.

## 2000

- \*Wheaton, E. 2000. Canadian Prairie Drought Impacts and Experiences. Chapter 23 In: Wilhite, D.A. (ed) *Drought A Global Assessment - Volume 1*. Routledge, London, England. Saskatchewan Research Council (SRC) Publication No. 11182-3E00.

## 1998

- Wheaton, E. 1998. *But It's A Dry Cold! Weathering the Canadian Prairies*. Fifth House Publishers, Calgary, AB. Saskatchewan Research Council (SRC) Publication No. 10439-1H98.

**1996**

- \*Baethgen, W., F.E. Chege, S.C. van de Geijn, L. Erda, A. Iglesias, G. Kenny, D. Patterson, J. Rogasik, R. Rötter, C. Rosenzweig, W. Sombroek, J. Westbrook, D. Bachelet, M. Brklacich, U. Dämmgen, M. Howden, R.J.V. Joyce, P.D. Lingren, D. Schimmelpfennig, U. Singh, O. Sirotenko and E. Wheaton. 1996. Agriculture in a Changing Climate: Impacts and Adaptation. Chapter 13 *In*: Watson, R.T., M.C. Zinyowera, R.H. Moss and D.J. Dokken (eds) *Climate Change 1995*. Contribution of Working Group II to the Second Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, USA. Saskatchewan Research Council (SRC) Publication No. R-1550-4-A-96.

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- \*Williams, G.D.V., R.A. Fautley, K.H. Jones, R.B. Stewart and E. Wheaton. 1988. Estimating Effects of Climatic Change on Agriculture in Saskatchewan, Canada. *Climate Change Digest* CCD **88-06**. Atmospheric Environment Service, Downsview, ON. Saskatchewan Research Council (SRC) Publication No. E-906-41-A-87.
- \*Williams, G.D.V., R.A. Fautley, K.H. Jones, R.B. Stewart and E. Wheaton. 1988. Estimating Effects of Climatic Change on Agriculture in Saskatchewan, Canada. *In*: Parry, M.L., T.R. Carter, and N.T. Konijin (eds), *The Impact of Climatic Variations on Agriculture, Vol. 1: Assessments in Cool Temperate and Cold Regions*. Kluwer Academic Publishers, Dordrecht, The Netherlands. Saskatchewan Research Council (SRC) Publication No. E-906-41-A-87.

**PUBLICATIONS IN PREPARATION**

- \*Bonsal, B. and E. Wheaton. *An Overview of Drought Research in Canada*. Submitted to the Canadian National Committee of the International Hydrological Programme, UNESCO.
- \*Fiebig-Wittmaack, M., O. Astudillo, E. Wheaton, V. Wittrock, C. Perez and A. Ibacach. *Climate Trends and Impact of Climate Change on Agriculture in an Arid Andean Valley in the Norte Chico, Chile*. Submitted to *Climate Change*.
- \*Wheaton, E. 2010 Draft. *What Effects do Droughts have in Canada? Highlights of the Repercussions of a Major, Multi-year Drought*. In Stewart, R. The 1999-2005 Canadian Prairies Drought: Science, Impacts and Lessons. Canada Drought Research Initiative, Winnipeg, MB. Pages... Saskatchewan Research Council Publication No. 11602-3A10.
- Wittrock, V. E. Wheaton, and E. Siemens. 2011 March DRAFT. Drought and Extreme Moisture- Saskatchewan's Nemesis: Characterizations for the Swift Current Creek, North Saskatchewan River, Assiniboine River and Upper Souris River Watersheds. Prepared for Saskatchewan Watershed Authority. Saskatchewan Research Council # 13022-??11

**RESEARCH REPORTS**

(Peer or scientific authority reviewed papers are marked by “\*”)

**2011**

- Wittrock, V. and E. Wheaton. 2011 March. *Drought and Excessive Moisture – Saskatchewan's Nemesis: Characterizations for the Moose Jaw River, Lower Souris River, Upper Qu'Appelle and Carrot River Watersheds*. Progress report for Saskatchewan Watershed Authority. Saskatchewan Research Council Publication No. 13022-7E11.

- Wheaton, E. W. Eilers, S. Kulshreshtha, R. MacGregor, and V. Wittrock. 2011 March Draft. Assessing Agri-environmental Implications of Climate Change and Agricultural Adaptation to Climate Change. Working paper prepared for the Organization for Economic Cooperation and Development (OECD), Paris. Saskatchewan Research Council #10432-1E11. 33 p.
- Wheaton, E., V. Wittrock, G. Koshida, and E. Siemens. 2011 March. *What are the Benefits of Droughts? Concepts and Examples to Promote Effective Adaptation Information Services*. Prepared for Adaptation and Impacts Research Section, Environment Canada. SRC Publication No. 13077-1E11.
- Wheaton, E., V. Wittrock, G. Koshida, and E. Siemens. 2011 March. *Developing Climate Services to Enhance Adaptation to Drought and other Climate Extremes in Canada*. Prepared for Adaptation and Impacts Research Section, Environment Canada. SRC Publication No. 13077-2E11.
- Wheaton, E., V. Wittrock, G. Koshida, and E. Siemens. 2011 March. *Planning for National Drought and Excessive Moisture Workshops: The Challenge for Canada of Shifting Drought and Excessive Moisture Patterns*. Prepared for Adaptation and Impacts Research Section, Environment Canada. SRC Publication No. 13077-3E11.
- Wittrock, V., E. Wheaton, and G. Koshida. 2011 March. *An Overview of Drought and Excessive Moisture Monitoring Capability in Canada*. Prepared for Adaptation and Impacts Research Section, Environment Canada. SRC Publication No. 13077-4E11.

## 2010

- Wheaton, E., S. Kulshreshtha, W. Eilers, and V. Wittrock. 2010 December. *Trends in the Environmental Performance of Agriculture in Canada under Climate Change*. Working paper prepared for the Organization for Economic Cooperation and Development (OECD), Paris. 10 p. Saskatchewan Research Council #10432-16E10.
- Wheaton, E., B. Bonsal, E. Siemens and A. Meinert. 2010 November. *Characterizing the Surface Dynamics of the 1999-2005 Canadian Prairie Drought: Final Progress Report*. Prepared for the Canada Drought Research Initiative, Winnipeg, MB. Saskatchewan Research Council No. 11602-5E10.
- \*Kulshreshtha, S., E. Wheaton, A. Amiraslany, H. Hill, A. Chipanshi, A. Howard. 2010 June. *Potential Socio-economic Impacts of Climate Change on Canadian Crop Production: A Literature Survey*. Prepared for Agriculture and Agri-Food Canada. Department of Bioresource Policy, Business and Economics, University of Saskatchewan, Saskatoon SK. Saskatchewan Research Council Publication No. 11178-1E10. 74 pp.
- \*Dubé, M, M. Johnston, E. Wheaton, K. Wallace, A. Harwood, and V. Wittrock. 2010. April. *Development of a Framework for Cumulative Effects Assessment and an Ecological Monitoring Plan for Northwest Saskatchewan*. Prepared for Ministry of Environment, Government of Saskatchewan. Saskatchewan Research Council Publication No. 12782-1E10. 57pp.
- \*Wittrock, V., E. Wheaton, and E. Siemens. 2010 March. *More than a Close Call: A Preliminary Assessment of the Characteristics, Impacts of and Adaptations to the Drought of 2009 in the Canadian Prairies*. Prepared for Environment Canada Adaptation and Impacts Research Division (AIRD), Saskatchewan Research Council. SRC Publication No. 12803-1E10. 124pp
- \*Wittrock, V. and E. Wheaton. 2010 March. *Climate Connections with Vector-Borne Diseases: A Case Study of the Ixodes Scapularis Tick and Lyme Disease in the Canadian Prairies*. Report prepared for Adaptation and Impacts Research Division, Environment Canada. SRC Publication No. 12829-15E10. 31 pp.

- Beaulieu, C. and E. Wheaton. 2010 Feb. *Examination of Climatic Trends and Extremes: A Case Study of Saskatchewan Research Council's Climate Reference Station at Saskatoon, Saskatchewan*. Prepared for Environment Canada, Adaptation and Impacts Research Division, Environment Canada. SRC Publication No. 12624-16E09. 61 pp.
- \*Wheaton, E. and N. Nicolichuk. 2010 February. *Patterns of Extreme Wet and Dry Hazards in the Canadian Prairie Provinces and Beyond*. Prepared for Adaptation and Impacts Research Division, Environment Canada. Saskatchewan Research Council. SRC Publication No. 12829-12E10. 109pp.
- Wittrock, V., C. Beaulieu, E. Siemens, R. Unidoor-Palith, J. Wilkinson, J. Thorpe, A. Rodriguez-Prado, K. Orosz, K. Winder and E. Wheaton. 2010 February. *Climate Hazards Research Results*. Proceedings of the Climate Hazards Workshop, November 25, 2009, Saskatoon, SK. Report prepared for Adaptation and Impacts Research Division, Environment Canada. SRC Publication No. 12829-1E09. 17pp.
- Wittrock, V. and E. Wheaton. 2010 February. *Climate Hazards for Disease Risk: A Case of West Nile Virus*. Prepared for Adaptation and Impacts Research Division, Environment Canada. SRC Publication No. 12624-8E09. 42 pp.
- Meinert, A., B. Bonsal, E. Wheaton and E. Siemens. 2010 February. *An Assessment of Various Drought Indices Associated with the 1999-2005 Canadian Prairie Drought*. Prepared for the Canada Drought Research Initiative of the Canadian Foundation for Climate and Atmospheric Sciences. Saskatchewan Research Council, Saskatoon, SK. SRC #11602-2E10. 67pp.
- Bonsal, B., E. Wheaton, E. Siemens, A. Meinert. 2010 January. *2009 DRI Progress Report. Characterizing the Surface Dynamics of the 1999-2005 Canadian Prairie Drought*. Prepared for the Canadian Foundation for Climate and Atmospheric Sciences. Saskatchewan Research Council. SRC #11602-1E10. 16pp.
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- Kulthreshtha, S. and E. Wheaton. 2009 December. *Drought Impacts – Science and Social Costs. ENVS 898 Selected Reading Course*. School of Environment and Sustainability, University of Saskatchewan, Saskatchewan Research Council, Environment and Forestry. Saskatchewan Research Council (SRC) Publication No. 12829-11E09. 7 pp.
- Wheaton, E. Agriculture. 2009 April. *In: Sauchyn, D., E. Barrow, X. Fang, N. Henderson, M. Johnston, J. Pomeroy, J. Thorpe, E. Wheaton, B. Williams. Saskatchewan's Natural Capital in a Changing Climate: An Assessment of Impacts and Adaptation*. Report to the Saskatchewan Ministry of Environment from the Prairie Adaptation Research Collaborative, Regina, SK. 167 pp. SRC Publication No. 11299-1E09.
- Wittrock, V., E. Wheaton, C. Beaulieu, B. Bonsal, R. Godwin, G. Koshida, S. Mamer, A. Meinert, N. Nicolichuk, K. Orosz, I. Radchenko, A. Rodriguez-Prado, B. Schreiner, D. Sorley, J. Thorpe, R. Udinoor-Palliath, J. Wilkinson and K. Winder. 2009 March. *Climate Hazards Research Planning and Canadian Drought Alert Monitoring Program Testing Workshop February 18, 2009*. Prepared for Adaptation and Impacts Research Division, Environment Canada. Saskatchewan Research Council (SRC) Publication No. 12624-4E09. 48 pp.
- Wittrock, V. and E. Wheaton. 2009 February. *Climate Hazards, Impacts and Adaptation Research Planning Workshop*. Prepared for Adaptation and Impacts Research Division, Environment Canada. Saskatchewan Research Council (SRC) Publication No. 12624-3E09. 70 pp.
- Meinert, A., B. Bonsal and E. Wheaton. 2009 February. *Annual Progress Report for 2008: The Climatological Nature of the 1995-2005 Drought in the Canadian Prairies*. Prepared for the Canadian Foundation for

Climate and Atmospheric Sciences. Saskatchewan Research Council (SRC) Publication No. 11602-2E09. 15 pp.

Meinert, A., B. Bonsal and E. Wheaton. 2009 February. *Annual Progress Report for 2006: The Climatological Nature of the 1999-2005 Drought in the Canadian Prairies*. Prepared for the Canadian Foundation for Climate and Atmospheric Sciences. Saskatchewan Research Council (SRC) Publication No. 11602-1E09. 10pp.

## 2008

Wittrock, V., E. Wheaton, S. Kulshreshtha. 2008 November. *Highlights of Papers by the Climate and Economic Group*. Prepared for the Institutional Adaptation to Climate Change Project, 2004 to 2008. Report prepared for the Institutional Adaptation to Climate Change Project for the University of Regina-led SSHRC project. SRC Publication No. 11899-9E08. 19 pp.

Johnston, M., T. Williamson, E. Wheaton, V. Wittrock, H. Nelson, H. Hessel, L. Vandamme, J. Pittman, M. Lebel. 2008 November. *Climate Change Adaptive Capacity of Forestry Stakeholders in the Boreal Plains Ecozone*. Prepared for the Government of Canada, Climate Change Impacts and Adaptation Program, Project A1383. Saskatchewan Research Council (SRC) Publication No. 12306-3E08. 181 pp.

Wittrock, V., S. Kulshreshtha, L. Magzul and E. Wheaton. 2008 September. *Adapting to Impacts of Climatic Extremes: Case Study of the Kainai Blood Indian Reserve, Alberta*. Prepared for Institutional Adaptation to Climate Change (IACC): A Project of SSRHC – MCRI Program. Saskatchewan Research Council (SRC) Publication No. 11899-6E08. 108 pp.

Wheaton, E. 2008 July. *Scenarios of Future Climates: Characteristics Relevant to Stakeholders of the Boreal Plains Ecozone*. Prepared for the Government of Canada, Climate Change Impacts and Adaptation Program, Project A1383. Saskatchewan Research Council (SRC) Publication No. 12306-2E08, 21 p.

Henderson, N., and D. Sauchyn (Eds.) Sauchyn, D., S. Kulshreshtha, E. Barrow, D. Blair, J. Byrne, D. Davidson, P. Diaz, N. Henderson, D. Johnson, M. Johnston, S. Kienzle, J. Klaver, J. Thorpe, and E. Wheaton (authors). 2008 April. *Climate Change Impacts on Canada's Prairie Provinces: A Summary of our State of Knowledge*. Prairie Adaptation Research Collaborative, Regina, SK. Saskatchewan Research Council (SRC) Publication No. 11299-3E08. 20 pp.

Wittrock, V., S. Kulshreshtha, and E. Wheaton. 2008 April. *A Prairie Community's Exposure and Sensitivity to Climatic Extremes: Case Study of the Blood Indian Reserve, Alberta. Progress Report for April 2007 to March 2008*. Saskatchewan Research Council (SRC) Publication No. 11899-5E08, 3pp.

\*Sauchyn, D., J. Byrne, N. Henderson, D. Johnson, M. Johnston, S. Keinzle, and E. Wheaton. 2008 April. *Alberta Vulnerability Assessment: Assessment of Biophysical Vulnerability*. Prepared for Prairie Adaptation Research Collaborative (PARC 08-01), University of Regina, Regina, SK. Saskatchewan Research Council (SRC) Publication No. 11299-1E08, 75 pp.

## 2007

Wittrock, V., and E. Wheaton. 2007 December. *Future Climates and Indices of the La Ronge Area, Saskatchewan*. Prepared for the Foothills Model Forest Program and the Climate Change Impacts and Adaptation Program (A1249). Saskatchewan Research Council (SRC) Publication No. 12176-2E07. 38 pp.

Wittrock, V. E. Wheaton, M. Khakapour. and S. Kulshreshtha. 2007 December. *Vulnerability of Prairie Communities During the 2001 and 2002 Droughts: Case Studies of Taber and Hanna, Alberta and Outlook, Saskatchewan*. Saskatchewan Research Council (SRC) Publication No. 11899-8E07, 124 pp.

- Langford, L., Froese, D., Wheaton, E., Wittrock, V., Melville, G., Johnston, M., and S. Guangul. 2007 October. *The Vulnerability of Non-Commercial Food Supplies for a Northern Saskatchewan Community to the Impacts of Climate Change*. Prepared for Government of Canada's Climate Change Impacts and Adaptation Program as part of the Project A1049. Saskatchewan Research Council (SRC) Publication No. 11906-3E07 90 pp.
- Wittrock, V, and E. Wheaton. 2007 August. *Climate and Hydrologic Trends Now and in the Future for the La Ronge Area, Saskatchewan*. Prepared for the Foothills Model Forest Program and the Climate Change Impacts and Adaptation Program (A1249). Saskatchewan Research Council (SRC) Publication No. 12176-3E07. 63 pp.
- \*Wheaton, E., G. Koshida, B. Bonsal, T. Johnston, W. Richards, V. Wittrock. 2007 May. *Agricultural Adaptation to Drought (ADA) in Canada: The Case of 2001 to 2002. Synthesis Report*. Prepared for Government of Canada's Climate Change Impacts and Adaptation Program. Saskatchewan Research Council (SRC) Publication No. 11927-1E07. 35 pp.
- Wittrock V., and Wheaton, E. 2007 May. *Towards Understanding the Adaptation Process for Drought in the Canadian Prairie Provinces: The Case of the 2001 to 2002 Drought and Agriculture*. Prepared for Government of Canada's Climate Change Impacts and Adaptation Program. Saskatchewan Research Council (SRC) Publication No. 11927-2E07, 154 pp.
- Sauchyn, D., M. Johnston, M. Vetter, J. Piwowar, E. Wheaton, E. Barrow, N. Henderson, V. Wittrock and G. Yu. 2007 April. *The Vulnerability of Land Management in the Grassland – Forest Transition to Climate Change Impacts on Ecosystems and Soil Landscapes*. Prepared for the Government of Canada, CCIAD Project A733. 135 pp. Saskatchewan Research Council (SRC) Publication No. 11747-1E07.
- Wheaton, E. and V. Wittrock. 2007 March. *Future Climate and Fire Scenarios of the Deschambault Lake Area, Saskatchewan*. Prepared for Government of Canada's Climate Change Impacts and Adaptation Program as part of the Project A1049. Saskatchewan Research Council (SRC) Publication No. 11906-1E07. 21 pp.

## 2006

- Wittrock, V., E. Wheaton and C. Beaulieu. 2006 November. *Climate of the Deschambault Lake Region*. Prepared for Government of Canada's Climate Change Impacts and Adaptation Program as part of the Project A1049. Saskatchewan Research Council (SRC) Publication No. 11906-1E06, 26 pp.
- Wittrock, V., D. Dery, S. Kulshreshtha and E. Wheaton. 2006 July. Vulnerability of Prairie Communities' Water Supply during the 2001 and 2002 Droughts: A Case Study of Cabri and Stewart Valley, Saskatchewan. (Abstract). *Institutional Adaptation to Climate Change: Comparative Study of Dryland River Basins in Canada and Chile. Annual Report April 1, 2005 – April 30, 2006*, p. 23. Saskatchewan Research Council (SRC) Publication No. 11899-6A06.
- Wittrock, V., D. Dery, S. Kulshreshtha and E. Wheaton. 2006 June. *Vulnerability of Prairie Communities' Water Supply during the 2001 and 2002 Droughts: A Case Study of Cabri and Stewart Valley, Saskatchewan*. Prepared for Institutional Adaptation to Climate Change (IACC): A Project of SSRHC – MCRI Program. Saskatchewan Research Council, Saskatoon, Saskatchewan. SRC Publication No. 11899-2E06, 107 pp.
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Whiting, J., E. Wheaton. 1987. *A Design of a Western Canadian Real-Time System for Integrated Forecasting of Basin Specific Flood and Low Flows*. Saskatchewan Research Council (SRC) Publication No. E- 905- 6-B-87.

## **1986**

Wheaton, E., R. Begrand. 1986. *Saskatoon SRC Climatological Reference Station Annual Summary, 1985* Saskatchewan Research Council (SRC) Publication No. E- 906- 3-B-86.

Wheaton, E., S. Shewchuk, J. Whiting. 1986. *Automation of a Climate Station: The Saskatchewan Research Council Climate Reference Station*. Saskatchewan Research Council (SRC) Publication No. E- 906- 9-E-86.

Wheaton, E., J. Whiting. 1986. *Estimation of Precipitation Extremes for Southeastern Saskatchewan: Proposed Rafferty and Alameda Reservoir Watersheds*. Saskatchewan Research Council (SRC) Publication No. E- 906-31-E-86.

Whiting, J., N. Nicolichuk, E. Wheaton. 1986. *Estimation of Flood Extremes (Probable Maximum Floods) for the Proposed Rafferty Dam, Saskatchewan: Final Report*. Saskatchewan Research Council (SRC) Publication No. E- 905- 7-E-86.

## 1985

Wheaton, E. 1985. *Some Climatological Aspects of Dust Storms and their Impact on Soil Erosion in the Agricultural Lands of Saskatchewan*. Saskatchewan Research Council (SRC) Publication No. E- 906-35-B-85.

Wheaton, E., R. Begrand. 1985. *Saskatoon SRC Climatological Reference Station Annual Summary, 1984*. Saskatchewan Research Council (SRC) Publication No. E- 906- 4-B-85.

Wheaton, E., R. Begrand. 1985. *Sunrise, Solar Noon and Sunset Times, Daylight Duration and Solar Energy for Selected Saskatchewan and Manitoba Locations*. Saskatchewan Research Council (SRC) Publication No. E- 906-30-E-85.

## 1984

Wheaton, E. 1984. *Estimation of Missing Precipitation Data and Completeness Evaluation of Climate Station Records for Several Saskatchewan Climate Stations*. Saskatchewan Research Council (SRC) Publication No. E- 906-22-B-84.

Wheaton, E. 1984. *Climatic Change Impacts on Wind Erosion in Saskatchewan, Canada*. Saskatchewan Research Council (SRC) Publication No. E- 906-16-B-84.

Wheaton, E., J. Calvert, R. Begrand. 1984. *Climatological Reference Station Annual Summary, 1983*. Saskatchewan Research Council (SRC) Publication No. E- 906- 3-B-84.

Wheaton, E. 1984. *Wind Erosion - Impacts, Causes, Models and Controls: A Literature Review and Bibliography*. Saskatchewan Research Council (SRC) Publication No. E- 906-48-E-84.

## 1982

Wheaton, E. and J. Whiting. 1982 March. *Meteorological Data for the Gunnar Uranium Tailings*. Appendix 1 in Whiting, J, H. Maathuis, E. Christiansen, H. Heuser, P. Machibroda, J. Kermeen. Summary Report: Surface Water and Groundwater Investigations of the Lorado Mill Area and Meteorological Data for the Gunnar Uranium Tailings. Prepared for the Mines Waste Research Secretariat of the Saskatchewan Department of the Environment. Saskatchewan Research Council Publication E-820-4-E-82.

## 1981

Whiting, J., E. Wheaton, G. Pasloske. 1981. *Surface and Groundwater Investigation of the Cypress Hills Provincial Park, Volume 1: Summary Report; Volume 2: Technical Report*. Saskatchewan Research Council (SRC) Publication No. E- 820-10-E-81.

## PRESENTATIONS, POSTERS AND PAPERS IN PROCEEDINGS

### 2011

- Bonsal, B. R., E. Wheaton, and E. Siemens. 2011. *Characterizing the Surface Features of Canadian Prairie Droughts*. Poster presentation to the American Meteorological Society's Annual Meeting, 21-15 January 2010, Seattle, WA. Environment Canada, Saskatoon, SK. Saskatchewan Research Council Publication No. 11602-1D11.
- Koshida, G., E. Wheaton, V. Wittrock, E. Siemens and D. Smeh. 2011 July. *From Drought to Deluge: How do We Cope with These Extremes?* 19<sup>th</sup> Conference on Applied Climatology 36<sup>th</sup> Annual Meeting of the American Association of State Climatologists and Practical Solutions for a Warming World: AMS Conference on Climate Adaptation. 18-20 July 2011. Asheville, North Carolina. SRC Publication No. 13077-6E11.
- Wittrock, V., E. Wheaton and G. Koshida. 2011 June. *Climate Connections to Insects and Diseases in the Canadian Prairies*. Abstract submitted and accepted to the CMOS 45<sup>th</sup> Congress "Ocean, Atmosphere and the Changing Pacific". Victoria B.C. June 5-9, 2011. SRC Publication No. 13077-7E11.
- Koshida, G., E. Wheaton and V. Wittrock. 2011 April. *Assessing Water Adaptations and Determining Coping Ranges to the 2001-2002 Drought*. Abstract and paper submitted to the American Water Resources Association (AWRA) 2011 Spring Specialty Conference on Managing Climate Change Impacts on Water Resources: Adaptation Issues, Options and Strategies, Baltimore MD. April 18-20, 2011. SRC Publication No. 13077-5E11.
- Wittrock, V., E. Wheaton, and E. Siemens. 2011 March. *The Goldilocks Dichotomy: Too Wet or Too Dry: North Saskatchewan River Watershed*. Presented to the North Saskatchewan River Watershed Stewards. Spring 2011. North Battleford, Saskatchewan. Prepared for the Saskatchewan Watershed Authority SRC Publication No. 13022-3D11. 41 slides.
- Wittrock, V., E. Wheaton, and E. Siemens. 2011 March. *The Goldilocks Dichotomy: Too Wet or Too Dry: Upper Souris Watershed*. Presented to Upper Souris River Watershed Stewards. Spring, 2011. Southern, Saskatchewan. Prepared for the Saskatchewan Watershed Authority. SRC Publication No. 13022-4D11. 41 slides.
- Bonsal, B., E. Wheaton and E. Siemens. 2011. *Characterizing the Surface Features of Canadian Prairie Droughts*. Climate Extremes Workshop 7-9 February, Winnipeg, MB. Canada Drought Research Initiative, Winnipeg, MB. 16 slides. SRC Publication No. 11602-2D11.
- Lemmen, D. with M. Boehm and R. MacGregor (Authors), E. Wheaton (Presenter). 2011. February. *Canada in a Changing Climate: Engaging the Agricultural Sector*. Invited presentation to "What Should Japanese Agriculture do to Prepare for Global Warming" Symposium organized by the Japanese Ministry of Agriculture, Forestry and Fisheries. 3 February, Tokyo, Japan. Natural Resources Canada, Ottawa. SRC Publication No. 10432-2D11. 17 slides.
- Wittrock, V., E. Wheaton, and E. Siemens. 2011 January. *The Goldilocks Dichotomy: Too Wet or Too Dry: Swift Current Creek Watershed*. Presented to the Swift Current Creek Watershed Stewards. January 11, 2011. Prepared for the Saskatchewan Watershed Authority Swift Current, Saskatchewan. SRC Publication No. 13022-1D11. 41 slides.
- Wittrock, V., E. Wheaton, and E. Siemens. 2011 January. *The Goldilocks Dichotomy: Too Wet or Too Dry: Assiniboine River Watershed*. Presented to the Assiniboine River Watershed Stewards. January 19, 2011.

Yorkton, Saskatchewan. Prepared for the Saskatchewan Watershed Authority. SRC Publication No. 13022-2D11. 41 slides.

Wheaton, E. 2011 January. *Preparing for More Climate Change*. Invited presentation to the Saskatchewan Energy Management Task Forces, 12 January, Saskatoon, SK.

Bonsal, B., E. Wheaton, and E. Siemens. 2011 January. *Characterizing the Surface Dynamics of Canadian Prairie Droughts*. Abstract. Environment Canada, Saskatchewan Research Council. American Meteorological Society Meeting, Seattle, WA, January 23-27, 2011. SRC Publication No. 11602-4E10. 1 page.

## 2010

Wheaton, E. 2010 September. Developing Agriculture's Environmental Indicators in the Context of Adapting to Climate Change: A Summary Paper. Proceedings of the joint OECD, INEA, FAO workshop on Agriculture and Adaptation to Climate Change, 23-25 June 2010, 2 p. OECD, Paris. SRC #10432-16E10. [http://www.oecd.org/document/4/0,3746,en\\_2649\\_33791\\_41711812\\_1\\_1\\_1\\_37401,00.html](http://www.oecd.org/document/4/0,3746,en_2649_33791_41711812_1_1_1_37401,00.html) Accessed 18 April 2011.

Bonsal, B., E. Wheaton, and E. Siemens. 2010 July. *Characterizing the Surface Dynamics of Canadian Prairie Droughts*. Water 2010: Hydrology, Hydraulics, and Water Resources in an Uncertain Environment, Quebec City, Quebec, July 5-7, 2010. Tenth Symposium on Stochastic Hydraulics, Fifth International Conference on Water Resources and Environment Research. SRC Publication No. 11602-3D10. Abstract is No. 11602-4E10. 28 slides.

Wheaton, E., S. Kulshreshtha, W. Eilers, V. Wittrock. 2010 June. *Environmental Sustainability of Agriculture in the Context of Adapting to a Changing Climate*. Invited keynote address to joint OECD-INEA-FAO workshop on Agriculture and Adaptation to Climate Change. Rome, Italy. June 23-25, 2010. SRC Publication No. 10432-1D10. 36 slides. [http://www.oecd.org/document/4/0,3746,en\\_2649\\_33791\\_41711812\\_1\\_1\\_1\\_37401,00.html](http://www.oecd.org/document/4/0,3746,en_2649_33791_41711812_1_1_1_37401,00.html) Accessed 18 April 2011.

Wheaton, E. 2010 May. *Priority Climate Issues: Discussion for the Environmental Round Table*. Invited presentation to the Environmental Round Table with Federal Environment Minister Jim Prentice and Colleagues. May 8, 2010. Saskatoon, SK. SRC Publication No. 10432-2D10. 6 slides.

Wittrock, V., E. Wheaton and S. Kulshreshtha. 2010 May. *Drought Impacts on Canadian Communities: Monitoring and Assessment*. Invited presentation to the Group on Earth Observations Drought Monitoring Workshop, 10-11 May, Winnipeg, MB. SRC Publication No. 11899-5D10. 25 slides.

Bonsal, B., E. Wheaton, V. Wittrock, E. Siemens, N. Nicolichuk. 2010 May. *Everyone is Affected: Selections of Drought Characteristics, Impacts and Adaptations*. University of Saskatchewan, Environment Canada, Saskatchewan Research Council, Canadian Foundation for Climate and Atmospheric Sciences, Drought Research Initiative, presented at DRI Workshop, May 11, 2010, Winnipeg. SRC Publication No. 11602-1D10. 21 slides.

Wittrock, V., E. Wheaton and S. Kulshreshtha. 2010 May. *Rural Communities and Drought Impacts*. Invited presentation to the Rural Community Adaptation to Drought Project Workshop, 25-26 May, Regina, SK. SRC Publication No. 11899-2D10. 27 slides.

Wittrock, V., E. Wheaton and S. Kulshreshtha. 2010 May. *Rural Communities and Drought Impacts*. Invited presentation to the Rural Community Adaptation to Drought Project Workshop, 25-26 May, Regina, SK.

Wheaton, E. 2010 May. *How Might Climate Change Affect Saskatchewan?* Invited presentation to the University of Saskatchewan Language Center, 19 May, Saskatoon, SK.

Wheaton, E., V. Wittrock, B. Bonsal, G. Koshida, N. Nicolichuk, E. Siemens, R. Udinoor-Palliath. 2010 April. *Confronting Drought Hazards in Saskatchewan*. Invited presentation to the Canada Drought Research Initiative Users' Workshop, 8 April, 2010, Regina, SK. SRC Publication No. 11602-2D10. 36 slides.

Wheaton, E. 2010. April. *Risks and Opportunities for Agriculture of Climate Trends*. Invited presentation to the Plant Biotechnology Institute and the University of SK, 14 April, Saskatoon, SK.

Hadarits, M., V. Wittrock, S. Kulshreshtha, E. Wheaton J. Pittman and C. Kayter. 2010 April. *Rural Community Vulnerability to Drought*. Invited presentation to the SK Association of Watersheds' Drought Preparedness Meeting, Agriculture and Agri-Food Canada, Saskatchewan Research Council, University of Saskatchewan. Swift Current, Saskatchewan, April 12, 2010. SRC Publication No 11899-4D10. 23 slides.

Hadarits, M., V. Wittrock, S. Kulshreshtha, E. Wheaton and J. Pittman. 2010 March. *Rural Community Vulnerability to Extreme Climatic Events*. Agriculture and Agri-Food Canada, Saskatchewan Research Council, University of Saskatchewan, Saskatchewan Watershed Authority Swift Current Creek Watershed Stewards. Invited presentation to the Drought Preparedness Workshop and Focus Group. Swift Current, Saskatchewan. SRC Publication No 11899-3D10. 40 slides.

Wittrock, V. and E. Wheaton. 2010 March. *Climatology Group Business Planning*. Presentation to the Planning Meeting for the Ecosystems Unit, Saskatchewan Research Council, 15 March 2010, Saskatoon SK. SRC Publication No. 11225-1D10. 17 slides.

Beaulieu, C. and E. Wheaton. 2010 February. *Examination of Climate Trends and Extremes. A Saskatoon Case Study*. Prepared for the Adaptation and Impacts Research Division, Environment Canada. Saskatchewan Research Council. SRC Publication No. 12829-14D10. 34 slides.

Wittrock, V., E. Wheaton and S. Kulshreshtha. 2010 January. *An Extreme Drought Event and Its Impacts on Six Canadian Prairie Communities*. Presentation to Environment and Forestry Division Staff. January 19, 2010. Saskatchewan Research Council and the University of Saskatchewan. SRC Publication No. 11899-2D10. 27 slides.

Wittrock, V. and E. Wheaton. 2010 January. *Climate Variability and Trends of Saskatchewan and the Canadian Prairies*. Invited presentation to the Saskatchewan Alfalfa Seed Producers Association, January 14-15, 2010. Saskatchewan Alfalfa Seed Conference, Saskatoon. SRC Publication No. 12829-1D10. 42 slides.

Wheaton, E., V. Wittrock, G. Koshida, B. Bonsal, N. Nicolichuk, E. Siemens, R. Udinoor-Palliath 2010 January. *Facing Drought Hazards: Traits, Impacts and Adaptations*. Invited presentation to Canada Drought Research Initiative Users' Workshop January 14, 2010, Winnipeg, Manitoba. SRC Publication No. 12829-13D10. 34 slides.

## 2009

Bonsal, B., E. Wheaton, E. Siemens and N. Nicolichuk. November 25, 2009. *Drought Characterizations*. Climate Hazards Workshop. Saskatchewan Research Council (SRC) Publication No. 12829-3D09 18 pp.

Wheaton, E., G. Koshida and V. Wittrock. November 25, 2009. *Climate Hazards Workshop* Saskatchewan Research Council and University of Saskatchewan, Adaptation and Impacts Research Division, Environment Canada. Saskatchewan Research Council (SRC) Publication No. 12829-1D09. 5 pp.

Wheaton, E., V. Wittrock and G. Koshida. 2009 August. *National Drought Study Update: Developing the Prairies Component*. Presentation at the AIRD National Project Review Meeting Fredericton, NB. August 20, 2009. Saskatchewan Research Council (SRC) Publication No. 12803-1D09. 13 pp.

Barrow, E. and E. Wheaton. 2009 November. *Global Climate Models and Downscaling: An Introduction*. Invited presentation to Renewable Resources Management 389.3, University of Saskatchewan. Saskatoon, November 19, 2009. SRC Publication No. 11178-3D09.

Hadarits, M., V. Wittrock, S. Kulshreshtha, E. Wheaton and J. Pittman. 2009 November. *Rural Community Vulnerability: Institutional Adaptations to Climate Change Project*. Invited presentation to the Stakeholder Workshop on Water and Climate in Saskatchewan. Regina, November 26, 2009. SRC Publication No. 11899-2D09.

Sauchyn, D., C. Perez Valdivia, S. Lapp, E. Wheaton and V. Wittrock. 2009 November *Future Climate Conditions in the South Saskatchewan River Basin*. Invited presentation to the Stakeholder Workshop on Water and Climate in Saskatchewan. Regina, November 26, 2009. SRC Publication No. 11899-3D09.

- Beaulieu, C. and E. Wheaton. November 25, 2009. *Comparing Climate Trends and Extremes: A Saskatoon Case Study*. Invited presentation to the Climate Hazards Workshop. Saskatoon, November 25, 2009. SRC Publication No. 12829-2D09. 19 slides.
- Wittrock, V., P. Curry and E. Wheaton. 2009 November. *West Nile Virus Outbreaks: The Climate Factor*. Invited presentation to the Climate Hazards Workshop. Prepared for the Adaptation and Impacts Research Division, Environment Canada. Saskatoon, November 25, 2009. SRC Publication No. 12829-10D09.
- Wheaton, E. 2009 October. *Watching and Preparing for Climate Impacts and Adaptations*. Invited presentation for Climate Change Awareness Walk, organized by the Saskatchewan Environmental Society and the University of Saskatchewan for the International Day of Climate Action Activities. Saskatoon, October 24, 2009. Saskatchewan Research Council (SRC) Publication No. 11225-9D09. 2 pp.
- Wheaton, E. 2009 September. *Climate Change: How Will It Affect Saskatchewan?* Invited Presentation at the Frances Morrison Library. Saskatoon, September 23, 2009. Saskatchewan Research Council (SRC) Publication No. 11178-2D09. 45 pp.
- Wheaton, E., V. Wittrock, and G. Koshida. 2009 August. *National Drought Study Update: Developing the Prairies Component*. Adaptation and Impacts Research Division, Environment Canada. Presentation at the AIRD National Project Review Meeting, Fredericton, NB Aug 20, 2009. SRC Publication No. 12803-1D09. 13 slides.
- Wittrock, V., S. Kulshreshtha and E. Wheaton. 2009 May. *The First 21<sup>st</sup> Century Extreme Drought Event and Its Impacts on Canadian Prairie Communities*. Presentation at the 43<sup>rd</sup> Annual National Conference of the Canadian Meteorological and Oceanographic Society Climate Change and Extreme Events (Part 3). Session #3043, Paper #2783. Halifax, Nova Scotia, May 31 – June 4, 2009. Saskatchewan Research Council (SRC) Publication No. 11899-1D09. 29 pp.
- Wheaton, E., V. Wittrock and G. Koshida. 2009 May. *Confronting Climate Hazards: Implications for Vulnerability*. Invited presentation to the Research for Disaster-reduction from Extremes Workshop (REDE). Winnipeg, MB, May 20-21, 2009. Saskatchewan Research Council (SRC) Publication No. 11178-1D09. 29 pp.
- Meinert, A., B. Bonsal and E. Wheaton. 2009 April. *Capturing the Dynamics of the 1999-2005 Canadian Prairie Drought using the SPI and PDSI*. Invited presentation to the DRI Precipitation and Drought Indices Workshop. Toronto, ON, April 30, 2009. Saskatchewan Research Council (SRC) Publication No. 11602-3D09. 9 pp.
- Wheaton, E., P. Curry and V. Wittrock. 2009 March. *Role of Climate in Outbreaks of West Nile Virus, Saskatchewan*. Presentation to the American Association of Geographers' Annual Meeting, Las Vegas, NV, United States, March 23-27, 2009. Saskatchewan Research Council (SRC) Publication No. 12624-6D09. 24 pp.
- Wheaton, E. and V. Wittrock. 2009 March. *Preparing for Extreme Climatic Events: How Do We Improve?* Invited presentation to the Agriculture Water Forum, Agricultural Adaptation to Climate Change, Saskatoon, SK. March 17-18, 2009. Saskatchewan Research Council (SRC) Publication No. 12624-12D09. 14pp.
- Wheaton, E. and V. Wittrock. 2009 February. *Climate Hazards, Impacts and Adaptation Project: Highlights*. Climate Hazards Planning Workshop #2, Saskatoon, SK. February 18, 2009. Saskatchewan Research Council (SRC) Publication No. 12624-4D09. 43 pp.

Wheaton, E. and V. Wittrock. 2009 February. *Climate Hazards, Impacts and Adaptation Project: Overview and Planning*. Climate Hazards Planning Workshop #3, Saskatoon, SK. February 18, 2009. Saskatchewan Research Council (SRC) Publication No. 12624-1D09. 21 pp.

Wittrock, V. and E. Wheaton. 2009 February. *Prairie Climates are Hazardous!! An Overview*. Climate Hazards Planning Workshop, Saskatoon, SK. February 18, 2009. Saskatchewan Research Council (SRC) Publication No. 12624-2D09. 31 pp.

## 2008

\*Diaz, P. S. Kulshreshtha, B. Matlock, E. Wheaton, and V. Wittrock. 2008 November. *Rural Community and Vulnerability to Climate Change: Case Studies of Cabri and Stewart Valley in Southwestern Saskatchewan*. Klima 2008/Climate 2008 Web Conference. Available at: <http://www.climate2008.net/index.html?a1=pap&cat=4&e=38> Saskatchewan Research Council (SRC) Publication No. 11899-10D08. 7pp.

Wheaton, E. 2008 November. *Agriculture in a Changing Climate*. Invited presentation to the Saskatchewan Research Council Agriculture, Biotechnology and Food Division, Saskatoon, SK. SRC Publication No. 10432-5D08. 47 pp.

Wheaton, E. 2008 November. *Weathering the Warming: Prairies and the World*. Invited presentation to Saskatchewan Research Council's Business Development Lunch and Learn. Saskatoon, SK. SRC Publication No. 10432-4D08. 40 pp.

Koshida, G., E. Wheaton and V. Wittrock. 2008 October. *The 2001-2002 Canadian Drought Experience: Lessons Learned*. Invited presentation to the North American Drought Monitor-Canadian Workshop. 15 October, Ottawa, ON. Saskatchewan Research Council Publication No. 11602-7D08. 27 pp.

Wheaton, E. 2008 October. *Weathering the Warming*. Invited presentation at "Super Friday and Saturday" for the Saskatoon Tribal Council and Saskatchewan Research Council at Saskatoon, 17 October. Saskatchewan Research Council, Saskatoon, SK. 40 pp.

Wittrock, V, S. Kulshreshtha, L. Magzul, and E. Wheaton. 2008 October. *Floods and Droughts / Friends or Foe?* Invited Presentation at the Saipoyi Elementary School, Standoff, Kainai Blood Indian Reserve, Alberta, October 22, 2008. Saskatchewan Research Council (SRC) Publication No. 11899-8D08. 20 pp.

Wittrock, V., S. Kulshreshtha, L., Magzul, and E. Wheaton. 2008 October. *Droughts and Floods of the late 20<sup>th</sup> and early 21<sup>st</sup> Centuries on the Kainai Blood Indian Reserve*. Invited presentation to the Blood Tribe Chief and Council, Standoff, Kainai Blood Indian Reserve, Alberta, October 21, 2008. Saskatchewan Research Council (SRC) Publication No. 11899-7D08. 34 pp.

Wheaton, E. 2008 September. *The Severe Drought of 2001-2002: An Overview of Impacts and Adaptations in the Canadian Prairies*. Invited presentation to the 2008 Canadian Drought Research Initiative (DRI) Conference, 26 September, Winnipeg, MB. Saskatchewan Research Council (SRC) Publication No. 11602-6D08. 108 pp.

Meinert, A., B. Bonsal, and E. Wheaton. 2008 September. *Characterizing the 1999-2005 Canadian Prairie Drought: Drought Indices and their Associated Input Variables*. Invited presentation to the Canada Drought Research Initiative (DRI) Drought Characterization Workshop, Winnipeg, MB, 26 September. SRC Publication No. 11602-8D08. 16 pp.

Wheaton, E. 2008 June. *Risks and Rewards: Global Warming and Prairie Agriculture*. Invited presentation to the 2008 Saskatchewan Assessment Appraisers' Association's, Annual Professional Development Workshop,

June 18-20, 2008, Saskatoon, SK. Saskatchewan Research Council (SRC) Publication No. 10432-3D08, 50 pp.

Wittrock, V., E. Wheaton, and S. Kulshreshtha. 2008 June. *Six Prairie Communities' Susceptibility to Drought*. Abstract for the presentation at the 61<sup>st</sup> Annual National Conference of the Canadian Water Resources Association, June 17-19, 2008, Gimli, MB. Saskatchewan Research Council (SRC) Publication No. 11899-1D08, 1 pp.

Wittrock, V., E. Wheaton, and S. Kulshreshtha. 2008 June. *Six Prairie Communities' Susceptibility to Drought*. Presentation at the 61<sup>st</sup> Annual National Conference of the Canadian Water Resources Association, June 17-19, 2008, Gimli, MB. Saskatchewan Research Council (SRC) Publication No. 11899-4D08, 31 pp.

Hill, H., T. Rolfe, E. Wheaton, R. Lawford, J. Pomeroy, R. Stewart and N. Lee. 2008 May. *A Modest Attempt to Take the "I" out of the "Hydro-illogical" Cycle*. Invited Presentation to the CMOS Congress, Kelowna, May 28, 2008. Saskatchewan Research Council (SRC) Publication No. 11602-3D08, 19 pp.

Wheaton, E. 2008 April. *Climate Change and Agriculture: Risks and Opportunities*. Invited presentation to the Agronomy Update, Saskatoon, April 17, 2008. Saskatchewan Research Council (SRC) Publication No. 11178-3D08. 47 pp.

Wheaton, E. 2008 April. *Health Implications of Climate Change for the Canadian Prairies*. Invited presentation to Health Canada, Regional Executive Committee, Strategic Planning Meeting, Regina, SK, April 16, 2008. Saskatchewan Research Council (SRC) Publication No. 10432-2D08, 52 pp.

Wheaton, E. 2008 April. *Climate Change and Agriculture: Risks and Opportunities*. Invited presentation to the 2008 Saskatchewan Institute of Agrologists' Conference, Saskatoon, April 4, 2008. Saskatchewan Research Council (SRC) Publication No. 11178-3D08. 47 pp.

Wittrock, V., P. Diaz, S. Kulshreshtha, B. Matlock, and E. Wheaton. 2008 April. *Rural Community Vulnerability to Climate Change: Saskatchewan Case Studies*. Invited Presentation to "Adaptation to Climate Change in the Canadian Plains", Saskatchewan Institute of Public Policy and Institutional Adaptation to Climate Change Project, Regina, April 22, 2008. Saskatchewan Research Council (SRC) Publication No. 11899-2D08, 19 pp.

Wittrock, V., S. Kulshreshtha, and E. Wheaton. 2008 April. *Vulnerability of Prairie Communities to Drought: Comparing Outlook, Taber, Hanna, and Kainai Nation*. Invited Presentation to the Annual Meeting of the Institutional Adaptation to Climate Change Project Regina, SK April 23-25, 2008. SRC Publication No. 11899-3D08, 15 pp.

Koshida, G., Wheaton, E., Wittrock, V., Stratton, E., and S. Butt. 2008 March. *Before the Tap Runs Dry: Identifying User Needs and Designing Better Drought Products*. Invited Presentation to the North American Drought Monitor-Canadian Workshop, March 5-6, 2008 Guelph, ON. Saskatchewan Research Council (SRC) Publication No. 11926-1D08. 38 pp.

Wittrock, V. and E. Wheaton. 2008 March. *Large and Small Communities and Climate Change*. Invited Presentation at the University of Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11178-2D08, 109 pp.

Wheaton, E., C. Beaulieu, J. Thorpe, and V. Wittrock. 2008 February. *Agriculture in a Warming Climate*. Invited Presentation at the University of Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11178-1D08, 78 pp.

- Wheaton, E., and V. Wittrock. 2008 February. *Health Risks of Climate Change*. Presented to Health Canada, February 22, 2008, Saskatoon, SK. Saskatchewan Research Council (SRC) Publication No. 11225-7D08. 10 pp.
- Meinert, A., B. Bonsal, and E. Wheaton. 2008 January. *Characterizing the Climatological Nature of the 1995-2005 Drought in the Canadian Prairies: Data Sources and Issues*. Invited presentation at the 2008 Drought Research Initiative (DRI) Workshop, Calgary, Alberta, January 17-19, 2008. Saskatchewan Research Council (SRC) Publication No. 11602-1D08. 17 pp.
- Wheaton, E., C. Beaulieu, M. Johnston, J. Thorpe, and V. Wittrock. 2008 January. *Weathering the Warming Climate*. Invited Presentation - Woodrow Lloyd Lecture, University of Regina, Regina, Saskatchewan, January 31, 2008. Saskatchewan Research Council (SRC) Publication No. 10432-1D08, 73 pp.
- Wittrock, V., and E. Wheaton. 2008 January. *Climatology Group, SRC Projects Overview*. Saskatchewan Research Council (SRC) Publication No. 11225-2D08. 16 pp.

## 2007

- Curry, P., E. Wheaton and V. Wittrock. 2007 December. *Mosquitoes and Other Risk Indicators*. Invited presentation to West Nile Virus Evaluation Meeting., Sask Health, Regina, Saskatchewan, December 5, 2007. Saskatchewan Research Council (SRC) Publication No. 11225-1D08. 37 pp.
- Wittrock, V., E. Wheaton, and S. Kulshreshtha. 2007 December. *Droughts of the Early 21<sup>st</sup> Century – Implications for Cabri and Stewart Valley Area*. Invited presentation for the Institutional Adaptation to Climate Change Project, Cabri, Saskatchewan, December 7, 2007. Saskatchewan Research Council (SRC) Publication No. 11899-7D07. 19 pp.
- Wheaton, E., C. Beaulieu, M. Johnston, J. Thorpe, and V. Wittrock. 2007 November. *Agricultural and Forestry: Adapting to Climate Change?* Invited Presentation to College of Agriculture (Ag Ec 398) Saskatchewan Research Council (SRC) Publication No. 11927-2D07. 78 pp.
- Wheaton, E., C. Beaulieu, M. Johnston, J. Thorpe, and V. Wittrock. 2007 November. *Risks and Opportunities of a Warming Climate: Views from the Prairies*. Invited Presentation to Environment Integrated Systems – Putting Policy into Action, Saskatchewan Federal Council, November 22, 2007, Regina, SK. Saskatchewan Research Council (SRC) Publication No. 11225-20D07. 80 pp.
- Wheaton, E., G. Koshida, V. Wittrock. 2007 September. *What does Current Agricultural Adaptation to Drought mean for Future Vulnerability?* In: Heinonen, M. Proceedings, Third International Conference on Climate and Water, Marina Congress Center, Helsinki Finland, 3 to 6 September 2007. Finnish Environment Institute, Helsinki, pp. 532-537. Saskatchewan Research Council (SRC) Publication No. 11927-10A07.
- Wheaton, E., G. Koshida, V. Wittrock. 2007 September. *What does Current Agricultural Adaptation to Drought mean for Future Vulnerability?* Abstract accepted for Third International Conference on Climate and Water Marina Congress Center, Helsinki Finland, 3 to 6 September 2007. Saskatchewan Research Council (SRC) Publication No. 11927-3A07.
- Wheaton, E., G. Koshida, and V. Wittrock. 2007 July. *What Does Current Adaptive Capacity Mean for Future Drought Management?* Presented at the Canadian Water Resource Association 60<sup>th</sup> Annual National Conference, July 25-28, 2007, Saskatoon, Saskatchewan. SRC Publication No. 11926-1D07. 29 pp.
- Koshida, G. E. Wheaton, E. Stratton and V. Wittrock. 2007 June. *Using Decision Support Tools to Enhance Sustainable Agricultural Water Use in the Prairie Provinces*. Abstract in CWRA June 2007 Annual National Conference. Saskatchewan Research Council (SRC) Publication No. 11927-8A07. p. 202.

- Sauchyn, D., M. Fiebig, E. Wheaton, J. Barichivich, S. Lapp and V. Wittrock. 2007 June. *Variability in the Hydroclimate of the Elqui and South Saskatchewan River Basins*. Abstract in CWRA June 2007 60<sup>th</sup> Annual National Conference Proceedings. Saskatchewan Research Council (SRC) Publication No. 11927-9A07. p. 101.
- Wheaton, E., G. Koshida, V. Wittrock. 2007 June. *Current Agricultural Adaptation to Drought: Implications for Future Water and Resource Management Capacity Building*. Abstract in CWRA June 2007 60<sup>th</sup> Annual National Conference Proceedings. Saskatchewan Research Council (SRC) Publication No. 11927-4A07. p. 66.
- Wittrock, V., E. Wheaton and S. Kulshreshtha. 2007 June. *Assessing the Vulnerability of Prairie Communities' Water Supply*. Abstract in Proceedings CWRA June 2007 60<sup>th</sup> Annual National Conference Proceedings. Saskatchewan Research Council (SRC) Publication No. 11899-5A07, p. 99.
- Wittrock, V., S. Kulshreshtha and E. Wheaton. 2007 June. *How Vulnerable are Prairie Communities' Water Supply?* Presentation to *CWRA 60<sup>th</sup> Annual National Conference of the Canadian Water Resources Association*, Saskatoon, Saskatchewan, June 26 to 28, 2007. Saskatchewan Research Council (SRC) Publication No. 11899-4D07.
- Lawford, R., I. Hanuta, H. Hill, A. Warkentin, E. Wheaton, R. Stewart, and B. Girling. 2007 May. *A Review of Some Requirements for Drought Information on the Canadian Prairies*. CMOS/CGU Congress, May 2007, St. John's Newfoundland. SRC Publication No. 11602-3D07. 20 pp.
- Wheaton, E., and S. Kulshreshtha. 2007 April. *Blood Tribe (Kainai Nation): Community Vulnerabilities (Review of Paper by Magzul and Rojas)*. A Review for the Institutional Adaptation to Climate Change Integration Panel, La Serena, Chile. Saskatchewan Research Council (SRC) Publication No. 11899-3D07.
- Wittrock, V., M. Khakpour, S. Kulshreshtha and E. Wheaton. 2007 April. *Impacts and Adaptation Strategies: A Case Study of Outlook, Taber and Hanna and the 2001 and 2002 Drought Progress Report*. Invited presentation to the *Institutional Adaptation to Climate Change Annual Meeting*. April 23-27, 2007, La Serena, Chile. Saskatchewan Research Council (SRC) Publication No. 11899-2D07.
- Wittrock, V. and E. Wheaton. 2007 February. *Impacts and Adaptations: The Case of the 2001-2002 Drought*. Invited presentation to the *Water Management Workshop in Alberta's Special Area #2*. February, 26, 2007, Hanna, AB. Saskatchewan Research Council (SRC) Publication No. 11899-1D07, 24 pp.
- Wheaton, E. 2007 January. *Theme 5 Update: Droughts-Addressing Critical Issues Important to Society*. Invited presentation to the *Canada DRI Workshop*, Winnipeg, MB. Saskatchewan Research Council (SRC) Publication No. 11602-2D07, 4 pp.
- Wheaton, E. and B. Bonsal. 2007 January. *Exploring the Surface Characteristics of the 1999-2005 Drought in the Canadian Prairies*. Invited presentation to the *Canada DRI Workshop*, Winnipeg, MB. Saskatchewan Research Council (SRC) Publication No. 11602-1D07, 17 pp.
- 2006**
- Wheaton, E., V. Wittrock and G. Koshida. 2006 December. *Assessing Impacts and Adaptation Challenges to the 2001 and 2002 Droughts on the Canadian Prairies*. Invited presentation to the *Canadian Association of Agri-Retailers Crop Management Forum*, December 5, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11228-10D06.

- Wheaton, E. 2006 November. *Canadian Agricultural Drought Adaptations: Synthesis Reporting*. Invited presentation to 2<sup>nd</sup> *Agricultural Drought Adaptations (ADA) Workshop*. Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11927-12D06.
- Wittrock, V. and E. Wheaton. 2006 November. *Agricultural Adaptation to Drought (ADA): 2001 and 2002 Droughts in the Canadian Prairies*. Invited presentation to the *Researchers and Advisory Group Workshop of the Canadian Agricultural Drought Adaptation Project*. Saskatoon, Saskatchewan. November 29, 2006. Saskatchewan Research Council (SRC) Publication No. 11927-11D06.
- Sauchyn, D, E. Wheaton, J. Cepeda, M. Fiebig, S. Kulshreshtha, D. Corkal, H. Zavala, V. Wittrock, C.P. Valdivia, S. Lapp, E. Lazo. 2006 September. *Unit 1.D. Analysis of Environmental Vulnerabilities. Unit 2. Climate Change Scenarios*. Invited presentation to *IACC Mid-Term Meeting*, Regina, Saskatchewan. September 5-6, 2006. Saskatchewan Research Council (SRC) Publication No. 11899-7D06.
- Wheaton, E., V. Wittrock, and G. Koshida. 2006 September. *Challenges in Responding to the Canadian Droughts of 2001 and 2002*. Abstract in Proceedings. *Managing Drought and Water Scarcity in Vulnerable Environment—Creating a Roadmap for Change in the United States*. Longmont, CO, September 18-20, 2006, p. 31. Geological Society of America. Saskatchewan Research Council (SRC) Publication No. 11602-2A06.
- Wheaton, E., V. Wittrock, and G. Koshida. 2006 September. *Challenges in Responding to the Canadian Droughts of 2001 and 2002*. Poster presentation to *Managing Drought and Water Scarcity in Vulnerable Environment—Creating a Roadmap for Change in the United States Workshop*. Longmont, CO, September 18-20, 2006. Geological Society of America. Saskatchewan Research Council (SRC) Publication No. 11926-6D06.
- Koshida, G.E., L. Mortsch, S. Cohen, E. Wheaton. 2006 June. *Developing Water Availability Standards for Agriculture in Canada*. Invited presentation to 59<sup>th</sup> *Annual Canadian Water Resources Association Conference*. Toronto, ON. Saskatchewan Research Council (SRC) Publication No. 11926-4D06
- Koshida, G. E., E. Stratton, E. Wheaton. 2006 June. *Developing Water Standards for Agriculture in Canada*. Invited presentation to the *Climate Change and Water in the Prairies, June 21-23, Saskatoon*. Saskatchewan Research Council (SRC) Publication No. 11926-5D06.
- Wheaton, E., G. Koshida, B. Bonsal, T. Johnston and V. Wittrock. 2006 June. *Are We Prepared for Future Droughts in the Canadian Prairies?* Invited presentation to *Climate Change and Water in the Prairies Conference*, Saskatoon, SK, June 21-23, 2006. Saskatchewan Research Council (SRC) Publication No. 11927-7D06. (also 11926-3D06 – paper in the proceedings).
- Wheaton, E., V. Wittrock and G. Koshida. 2006 June. *Assessing Adaptations and Determining Coping Ranges to Severe Droughts in Canada*. Paper in Proceedings at 59<sup>th</sup> *Annual Canadian Water Resources Association (CWRA) Conference*. June 4-7, Toronto, Ontario. Saskatchewan Research Council (SRC) Publication No. 11927-10D06.
- Wheaton, E., V. Wittrock and G. Koshida. 2006 June. *Assessing Adaptations and Determining Coping Ranges to Severe Droughts in Canada*. Invited presentation to 59<sup>th</sup> *Annual Canadian Water Resources Association (CWRA) Conference*. June 4-7, Toronto, Ontario. Saskatchewan Research Council (SRC) Publication No. 11972-9D06.
- Wittrock, V. and E. Wheaton. 2006 June. *Potential Impacts of Climate Change on Water Resources in the Canadian Prairies*. Invited presentation to the *Federation of Saskatchewan Indian Nations. “Only a Matter of Time” - First Nations Water Summit*. Saskatoon, Saskatchewan. June 20-22, 2006. Saskatchewan Research Council (SRC) Publication No. 11182-1D06.

- Wittrock, V. and E. Wheaton. 2006 May. *Impacts and Adaptive Responses (and their Effectiveness) to the 2001 and 2002 Drought Years: Prairie Provinces*. Invited presentation to the *Researchers and Advisory Group Workshop of the Canadian Agricultural Drought Adaptation Project*, May 3, 2006, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11927-4D06.
- Wittrock, V. and E. Wheaton. 2006 May. *Overview of the Agricultural Drought Adaptation Project and Web Page*. Invited presentation to the *Researchers and Advisory Group Workshop of the Canadian Agricultural Drought Adaptation Project*, May 3, 2006, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11927-5D06.
- Wittrock, V., D. Dery, S. Kulshreshtha, E. Wheaton, 2006 April. *Vulnerability of Prairie Communities to the 2001 and 2002 Droughts*. Invited presentation to the *Institutional Adaptation to Climate Change Annual Meeting*. Regina, Saskatchewan. 24-28 April. Saskatchewan Research Council (SRC) Publication No. 11899-1D06.
- Wheaton, E. 2006 March. *Climate Change Implications for Water Availability in the Canadian Prairies*. Invited presentation to "Western Water, the Environment, and Economic Growth", Saskatchewan Environmental Society, Saskatoon, Saskatchewan, March 29 to 30, 2006, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11926-2D06.
- Wheaton, E. 2006 February. *Are We Ready for More Climate Change?* Invited presentation to *West Central Teachers' Convention*, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11632-1D06.
- Wheaton, E., G. Koshida, V. Wittrock, and E. Stratton. 2006 February. *APF-NAESI Water Availability Standard Project: SSRB Case Study*. Invited presentation to *Natural Resources Canada*, February 2, 2006, Ottawa, Ontario. Saskatchewan Research Council (SRC) Publication No. 11926-1D06.
- Wheaton, E. 2006 January. *Characteristics of Canadian Prairie Droughts*. Invited presentation to *Canadian Drought Research Initiative Workshop*, January 11-12, 2006. Saskatchewan Research Council (SRC) Publication No. 11927-1D06.
- Wheaton, E. 2006 January. *Dealing with Droughts: Addressing Critical Issues Important to Society*. Invited presentation to *Canadian Drought Research Initiative Workshop*, January 11-12, 2006. Saskatchewan Research Council (SRC) Publication No. 11927-2D06.
- Johnston, M., J. Thorpe, E. Wheaton, and V. Wittrock. 2006. *Climate Change Impacts and Adaptation Research at the Saskatchewan Research Council*. Invited Presentation to *WAITRO 2006 Biennial Congress*. Saskatchewan Research Council (SRC) Publication No. 11225-18D06.

## 2005

- Kulshreshtha, S.N. and E. Wheaton. 2005 November. *Adaptive Responses to Water Resource Changes During 2001-02 Droughts in Western Canada*. Paper in the proceedings of *XII World Water Congress, IWRA*, November 22 to 25, 2005, New Delhi, India. Saskatchewan Research Council (SRC) Publication No. 11602-7D05.
- Langford, L., E. Wheaton, J. Irvine, M. Johnston, T. Laxdal, W. Osei, and V. Wittrock. 2005 November. *Climate Changes, Wildfires and Respiratory Ailments in Northern Saskatchewan: Introduction*. Invited presentation to *Fire Control Section, Saskatchewan Environment*, November 28, 2005, Prince Albert, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11667-4D05.
- Koshida, G., E. Wheaton and V. Wittrock. 2005 July. *Canadian Droughts of 2001 and 2002: Overview of the Climatology, Impacts and Adaptations*. Invited presentation to the *30<sup>th</sup> Annual Hazards Research and*

- Applications Workshop*, July 10 to 13, 2005, Boulder, Colorado. Saskatchewan Research Council (SRC) Publication No. 11602-5D05.
- Koshida, G., E. Wheaton and V. Wittrock. 2005 Feb. *Adaptive Responses to the 2001-02 Droughts in Canada: Challenges and Opportunities*. Invited presentation to the *National Workshop on Climate Scenarios*, February 1, 2005, Ottawa, Ontario. Saskatchewan Research Council (SRC) Publication No. 11602-2D05.
- Bonsal, B., and E. Wheaton. 2005. *Atmospheric Circulation Comparisons Between the 2001 & 2002 and 1961 & 1988 Canadian Prairie Droughts*. Invited Presentation at the Drought Workshop in College Park, Maryland, US. Saskatchewan Research Council (SRC) Publication No. 11602-4D08.
- Kulshreshtha, S.N. and E. Wheaton. 2005. *Adaptive Responses to Water Resource Changes During 2001-02 Droughts in Western Canada - Highlights*. Invited presentation to the *XII World Water Congress, IWRA*, November 22 to 25, 2005, New Delhi, India. Saskatchewan Research Council (SRC) Publication No. 11602-6D05.
- MacIver, D. and E. Wheaton. 2005. *Forest Biodiversity: Adapting to a Changing Climate*. *World Forest Congress Paper (2003)*, September 21 to 28, 2003, Quebec City, Quebec. Saskatchewan Research Council (SRC) Publication No. 11632-3D05.
- MacIver, D.C. and E. Wheaton. 2005. *Forest Biodiversity: Adapting to a Changing Climate*. Paper 21 of Building the Adaptive Capacity. *An International Conference on Adaptation Science, Management and Policy Options*, May 17 to 19, 2004, Lijiang, Yunnan, China. Saskatchewan Research Council (SRC) Publication No. 11632-4D05.
- Wheaton, E. 2005. *Climate Change Science: Some Highlights/Seminar Series on Climate Change*. Invited presentation to *University of Saskatchewan*, September 26, 2006. Saskatchewan Research Council (SRC) Publication No. 10439-3D05.
- Wheaton, E. 2005. *Decision Support Tools for Agricultural Water Conservation: An Overview*. Invited presentation to the *National Agri-Environmental Standards Initiatives Meeting*, August 23 to 24, 2005, Vancouver, British Columbia. Saskatchewan Research Council (SRC) Publication No. 11926-3D05.
- Wheaton, E. 2005. *Future Possible Climates of Northern Saskatchewan*. Invited presentation to *Prince Albert Climate, Fires and Health Workshop*, November 28, 2005, Prince Albert, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11667-2D05.
- Wheaton, E., D. Froeses, and L. Langford. 2005. *Climate Change Solutions: Are We Ready for More Climate Change?* Invited presentation to *Federation of Saskatchewan Indian Nations – ‘Only a Matter of Time: An Environmental Approach to Sustaining Mother Earth’*, October 11 to 12, 2005, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11632-7D05.
- Wheaton, E., H. Auld, G. Koshida, and D. MacIver. 2005. *Agricultural Water Conservation in Canada: Scoping Trends, Pressures, Vulnerabilities, and Key Questions*. Invited presentation to the *National Agri-Environmental Standards Initiatives Meeting*, August 23 to 24, 2005, Vancouver, British Columbia. Saskatchewan Research Council (SRC) Publication No. 11926-2D05.
- Wheaton, E., V. Wittrock, and G. Koshida. 2005. *Canadian Droughts of 2001-2002: An Overview of the Climatology, Impacts and Adaptations*. Invited presentation to *ISACS 2005*, May 24, 2005, Lanzhou, China. Saskatchewan Research Council (SRC) Publication No. 11927-2D05.
- Wheaton, E., V. Wittrock, S. Kulshreshtha. 2005. *Agriculture Section - Prairie Chapter of National Assessment*. Invited presentation to the *Prairies Writing Group of the Canadian National Assessment on Climate Change*

*Impacts and Adaptations*, July 15, 2005. Saskatchewan Research Council (SRC) Publication No. 10439-2D05.

Wheaton, E., V. Wittrock, G. Koshida, S. Kulshreshtha, and B. Bonsal. 2005 Feb. *Hazards of the 2001 and 2002 Droughts in Canada: Overview of the Climatology and Impacts*. Invited presentation to the *National Workshop on Climate Scenarios*, February 1, 2005, Ottawa, Ontario. Saskatchewan Research Council (SRC) Publication No. 11602-1D05.

Bonsal, B. and E. Wheaton. 2005. Atmospheric Circulation Comparison between the 2001 and 2002 and the 1961 and 1988 Canadian Prairie Droughts. Poster presentation at the Drought Workshop in College Park, Maryland, US. Saskatchewan Research Council (SRC) Publication No. 11602-2D08.

Wittrock, V. and E. Wheaton. 2005. *Relationships: Climate, Fire and Respiratory Health*. Invited presentation to *Prince Albert Climate, Fires and Health Workshop*, November 28, 2005, Prince Albert, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11667-5D05.

Wittrock, V., E. Wheaton, and S. Kulshreshtha. 2005. *Update on Working Paper on Climate Change Scenarios and Impact Scenarios (SSRB)*. Invited presentation to the *Institutional Adaptation to Climate Change Annual Meeting*, April 25 to 29, 2005, La Serena, Chile. Saskatchewan Research Council (SRC) Publication No. 11899-2D05.

Wittrock, V., G. Koshida, and E. Wheaton. 2005. *Adaptation Strategies for Agriculture in Canada: Preparing for the 21<sup>st</sup> Century*. Invited presentation to *Adapting to Climate Change in Canada 2005: Understanding Risks and Building Capacity*, May 4 to 6, 2005, Montreal, Quebec. Saskatchewan Research Council (SRC) Publication No. 11927-1D05.

## 2004

Wheaton, E. and V. Wittrock. 2004 November. *Climate Change and Ecosystems*. Invited presentation to *Deschambault Lake Project Team Meeting*. November 16, 2004. Deschambault Lake, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11907-1D04.

Wheaton, E. 2004 January. *Climate Change and Drought: Implications for Agriculture and Water*. Invited presentation to the *Saskatchewan Institute of Agrologists' Meeting*, January 27, 2004, Saskatoon, Saskatchewan.

Wheaton, E. 2004 January. *Climate Change: Impacts, Adaptations and Vulnerabilities*. Invited seminar to *Plant Science 865.3*, University of Saskatchewan, January 15, 2004, Saskatoon, Saskatchewan.

Johnston, M. and E. Wheaton. 2004. *Climate and Climate Change: An Overview*. Invited presentation to Weyerhaeuser, June 17, 2004. Saskatchewan Research Council (SRC) Publication No. 11616-6D04.

Wheaton, E. 2004. *Climate Change Risks to Health and the Infrastructure/Resources: Opportunities*. Invited presentation to the *Climate Change Business Development Workshop*, April 15, 2004, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11632-9D04.

Wheaton, E. 2004. *Climate Impact Scenario Design and Delivery*. Proposal writing meeting regarding *Ecosystem Sensitivity to Climate Change in the Saskatchewan and Athabasca Watersheds*, November 22 to 23, 2004, Canmore, Alberta. Saskatchewan Research Council (SRC) Publication No. 11632-21D04.

Wheaton, E. 2004. *Exploring Climate Change and the Sensitivities of the Grassland-Forest Transition Zone*. Invited presentation to *Land Management Vulnerability to Climate Change Workshop*, March 22, 2004. Prince Albert, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11747-1D04.

Wheaton, E. and B. Bonsal. 2004. *Past and Future Climatic Variability and Trends in the Canadian Prairies*. Invited presentation to *CWRA-PFSRB Workshop*, Saskatoon, Saskatchewan, October 6 to 8, 2004. Saskatchewan Research Council (SRC) Publication No. 11632-18D04.

Wheaton, E., B. Bonsal, V. Wittrock, and P. Adkins. 2004. *The Canadian National Drought Study: An Overview*. Invited presentation to the *Drought Network Workshop*, March 18 to 19, 2004, Winnipeg, Manitoba. Saskatchewan Research Council (SRC) Publication No. 11632-6D04.

Wittrock, V. and E. Wheaton. 2004. *Climate Change and Canadian Prairie Cities*. Invited presentation to *Canadian Water Resources Association Partners for the Saskatchewan River Basin Planning for Climate Variability: Floods, Drought and Change*, October 17, 2004, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11182-3D04.

## 2003

Johnston, M., E. Wheaton, and S. Kulshreshtha. 2003 May. *The Future of the Forest Fringe Region in the Prairie Provinces*. Invited presentation to "Plain as the Eye Can See: Managing Changing Prairie Landscape", a conference hosted by the Royal Saskatchewan Museum, May 15-17, 2003, Regina, SK. Saskatchewan Research Council (SRC) Publication No. 12204-23D06.

Johnston, M., E. Wheaton, and J. Thorpe. 2003 April. *Climate Change Impacts in Saskatchewan's Forest Landscapes*. Invited presentation to "Pain in the Eye" (Plain as the Eye Can See) Symposium, April 16, 2003, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 12204-53D06.

Bonsal, B., E. Wheaton, P. Adkins, and V. Wittrock. 2003. *The Canadian National Drought Study*. Invited presentation to *Open Forum Meeting*, October 16, 2003, Montreal, Quebec. Saskatchewan Research Council (SRC) Publication No. 11602-44D03.

Johnston, M., E. Wheaton, and J. Thorpe. 2003. *Climate Change Impacts in Saskatchewan's Forest Fringe Landscapes*. Invited presentation to *Plains Island Forest Workshop*, March 20, 2003, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11616-2D03.

Johnston, M., E. Wheaton, and J. Thorpe. 2003. *Climate Change Impacts in the Western Canadian Boreal Forest*. Invited presentation to the *Canadian Council of Professional Engineers*, February 28, 2003, Ottawa, Ontario. Saskatchewan Research Council (SRC) Publication No. 11299-3D03.

Koshida, G, E. Wheaton, and V. Wittrock. 2003. *Assessing Adaptive Responses to the 2001 and 2002 Droughts in Canada*. Invited presentation to *Open Forum Meeting*, October 16, 2003, Montreal, Quebec. Saskatchewan Research Council (SRC) Publication No. 11602-43D03.

Wheaton, E. 2003. *Climate Change Vulnerabilities of North America*. Invited presentation to the *Biology Seminar*, University of Saskatchewan, February 6, 2003, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11225-4D03.

Wheaton E. 2003. *Pastures, Grasslands and Livestock Feed - Effects and Adaptations in the Droughts of 2001 and 2002*. Invited presentation to the *Canadian Drought Steering Committee*, July 3, 2003, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11602-42D03.

Wheaton E. 2003. *Wind Erosion Events During the 2001 and 2002 Droughts: Impacts and Adaptations*. Invited presentation to the *Canadian Drought Steering Committee*, July 3, 2003, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11602-41D03.

- Wheaton, E. and V. Wittrock. 2003. *Climate Change and Its Implications for Communities*. Invited presentation to the *Saskatchewan Urban Municipalities Association Annual Convention*, February 2, 2003, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11225-3D03.
- Wheaton, E. and V. Wittrock. 2003. *Dealing with Droughts in the Canadian Prairies*. Invited presentation to *Life on the Prairies: "Dealing with Water Realities and Climate Change"*, co-hosted by the Canadian Society of Environmental Biologists and the CWRA, October 19 to 21, 2003, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11632-6D03.
- Wheaton E. and V. Wittrock. 2003. *Droughts of 2001 and 2002: Comparison with Other Droughts and Description for Western Canada*. Invited presentation to the *Canadian Drought Steering Committee*, July 3, 2003, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11602-35D03.
- Wheaton E. and V. Wittrock. 2003. *Print Media Survey of the 2001 and 2002 Droughts in Western Canada*. Invited presentation to the *Canadian Drought Steering Committee*, July 3, 2003, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11602-40D03.
- Wittrock, V. and E. Wheaton. 2003. *Climate Change and Urban Areas*. Invited presentation to *Canadian Council of Professional Engineers*, February 28, 2003, Ottawa, Ontario. Saskatchewan Research Council (SRC) Publication No. 11182-1D03.
- Wittrock, V. and E. Wheaton. 2003. *Climate Change: Ecosystem Vulnerabilities*. Invited presentation to *Society of Canadian Ornithologists Conference*, October 17 and 18, 2003, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11182-5D03.

## 2002

- Beaulieu, C., E. Wheaton, and V. Wittrock. 2002. *A Community Climate Change Workshop Series for the Canadian Prairie Provinces*. Invited poster presentation to the *PARC Climate Change Impacts and Adaptation in the Prairie Provinces Workshop*, March 21, 2002, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11332 -3G02.
- Sauchyn, D., E. Wheaton, M. Johnston, and G. Luciuk. 2002. *Prairie Adaptation Research Collaborative (PARC) – Synthesis of Research*. Invited presentation to *PARC Workshop*, March 21 to 22, 2002, Regina, Saskatchewan. Research Council (SRC) Publication No. 11299-2D02.
- Sykes, C., E. Wheaton, J. Stevens, and R. Cohen. 2002. *Effects of Climate Change Past and Future on Rangeland Livestock and Forage Production in Canada*. Invited presentation to *South Africa Rangeland Conference*, June 26 to August 6, 2003. Saskatchewan Research Council (SRC) Publication No. 11182-7D02.
- Wheaton, E. 2002 January. *Changing Climate Patterns: The Canadian Prairies and the World*. Invited presentation for FarmTech 2002, Red Deer, AB, January 30-31, 2002. Saskatchewan Research Council (SRC) Publication No. 11182-1D02
- Wheaton, E. 2002. *Changing Forest Fire Risk in a Changing Climate: Western Boreal Vulnerability*. Saskatchewan Research Council (SRC) Publication No. 11341-2D02.
- Wheaton, E. 2002. *Climate Change and Conservation*. Invited presentation to the *Saskatchewan Soil Conservation Association Board Meeting*, October 17, 2002, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC), Saskatoon, Saskatchewan.
- Wheaton, E. 2002. *Climate Change and Water*. Invited presentation to the *Meewasin Valley Association*, January 28, 2002, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC), Saskatoon, Saskatchewan.

- Wheaton, E. 2002. *Climate Change: Water Resource Vulnerabilities*. Invited presentation to the *Just Add Water Conference*, October 2 to 3, 2002, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11225-14D02.
- Wheaton, E. 2002 March. *Preparing for Climate Impacts: the Canadian Prairies*. Invited presentation to the *SFIN/INAC Workshop in Climate Change*, March 24-26. Saskatchewan Research Council (SRC) Publication No. 11299-1D02.
- Wheaton, E., and V. Wittrock. 2002. *Impacts of Drought and Climate Change on Urban Water Supplies in the Canadian Prairie Provinces*. Abstract in *Proceedings at the 15th Conference on Biometeorology/Aerobiology and 16th Congress of Biometeorology*, October 27 to November 1, 2002, Kansas City, Missouri. Saskatchewan Research Council (SRC) Publication No. 11225-16D02.
- Wheaton, E., and V. Wittrock. 2002. *Impacts of Drought and Climate Change on Urban Water Supplies in the Canadian Prairie Provinces*. Invited presentation to the *15th Conference on Biometeorology/Aerobiology and 16th Congress of Biometeorology*, October 27 to November 1, 2002, Kansas City, Missouri. Saskatchewan Research Council (SRC) Publication No. 11225-16D02.
- Wheaton, E., V. Wittrock, and H. Cutforth. 2002. *Climate Variations of the Canadian Prairies and the World*. Invited presentation to the *Canadian Society of Agricultural Meteorology*, July 16, 2002, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11182-5D02.
- Wittrock, V., and E. Wheaton. 2002. *The 2001 Drought in Saskatchewan, Canada*. Poster Presentation to the *15th Conference on Biometeorology/Aerobiology and 16th Congress of Biometeorology*, October 27 to November 1, 2002, Kansas City, Missouri. Saskatchewan Research Council (SRC) Publication No. 11182-6D02.
- Wittrock, V., and E. Wheaton. 2002. *Climate Change Impacts on Urban Areas Across the Canadian Prairies*. Invited presentation to the *Winnipeg Civic Environmental Committee*, December 14, 2002, Winnipeg, Manitoba. Saskatchewan Research Council (SRC) Publication No. 11182-9D02.
- Wittrock, V., E. Wheaton, and C. Beaulieu. 2002. *Adaptability of Prairie Cities: the Role of Climate - Current and Future Impacts and Adaptation Strategies*. Invited poster presentation to the *PARC Climate Change Impacts and Adaptation in the Prairie Provinces Workshop*, March 21, 2002, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11296-2D02.
- Wittrock, V., E. Wheaton, and D. Sauchyn. 2002. *Climate Change and Urban Areas Across the Canadian Prairies*. Invited presentation to the *Saskatoon Environment Advisory Committee*, City of Saskatoon, September 19, 2002, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11182-8D02.

## 2001

- Johnston, M., E. Wheaton, and J. Thorpe. 2001. *Forest Vulnerability to Climate: An Assessment of the Western Canadian Boreal Forest*. Prepared for the Government of Canada's Climate Change Action Fund. Invited presentation to *Prairie Adaptation Research Collaborative (PARC)-Prince Albert Model Forest Workshop Climate Change Impacts and Adaptation Options for the Prairies' Forestry Sector*, January 2001, Prince Albert, Saskatchewan.
- Johnston, M., E. Wheaton, J. Thorpe, S. Kulshreshtha, S. O'Shaughnessy. 2001. *Applying Climate Change Analysis to Forest Land Use Planning*. Prepared for the Government of Canada's Climate Change Action Fund. Invited presentation to the *Fort a la Corne Forest Land Use Planning Team*, June 2001, Tisdale, Saskatchewan.

- Johnston, M., E. Wheaton, J. Thorpe, S. Kulshreshtha, S. O'Shaughnessy. 2001. *Forest Ecosystem Vulnerability to Climate*. Prepared for the Government of Canada's Climate Change Action Fund. Invited presentation to the *Ecological Monitoring and Assessment Network Annual Meeting*, May 4, 2001, Calgary, Alberta.
- Johnston, M., E. Wheaton, S. O'Shaughnessy, and S.N. Kulshreshtha. 2001. *Forest Ecosystem Vulnerability to Climate Change: An Assessment of the Western Canadian Boreal Forest*. Saskatchewan Research Council (SRC) Publication No. 11341-10D01.
- Kulshreshtha, S.N., M. Johnston, and E. Wheaton. 2001. *Forest Ecosystem Vulnerability to Climate Change: Conceptual Framework for Economic Analysis*. Invited presentation to *Social and Economic Perspective of Boreal Forest Ecosystem Management Conference*, June 5 to 8, 2001, Edinburgh, Scotland. Saskatchewan Research Council (SRC) Publication No. 11341-4D01.
- Wheaton, E. 2001. *Climate Change in North America*. Overview of the IPCC Third Assessment Report presented to the *Ecosystem Section*, Saskatchewan Research Council, December, 2001, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11224-1D02.
- Wheaton, E. 2001. *Prairie Adaptation Research Collaborative*. Invited presentation to the *Atmospheric and Hydrological Sciences Division, Environment Canada Science Forum*, May 24, 2001, Saskatoon, Saskatchewan.
- Wittrock, V. and E. Wheaton. 2001. *Adaptability of Prairie Cities: The Role of Climate - City Climate Advisory Group Project Update*. Invited presentation to the *City Climate Advisory Group*, June 21, 2001, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11296-4D01.
- Wittrock, V. and E. Wheaton. 2001. *Adaptability of Prairie Cities: The Role of Climate - Project Overview*. Invited presentation to the *CCAF Impacts and Adaptation Workshop*, October 2001, Calgary, Alberta. Saskatchewan Research Council (SRC) Publication No. 11296-8D01.
- Wittrock, V. and E. Wheaton. 2001. *Adaptability of Prairie Cities: The Role of Climate - Report Results in Brief*. Invited presentation to the *City Climate Advisory Group*, June 21, 2001, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11296-5D01.
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- Wheaton, E. 2000. *Climatic Change*. Invited presentation to *Resource Management in a Changing World, Saskatchewan Environmental and Resource Management*, October 24, 2000, Saskatoon, Saskatchewan. (No paper available.)
- Wheaton, E. 2000. *How is the Climate Changing in the Prairie Provinces? What Can We Expect in the Future?* Invited presentation to *Agriculture and Greenhouse Gas/Climate Change Workshop*, December 11 to 12, 2000, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. 11225-10D00.
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Wheaton, E. 1999. *Changing Climates: Forest Ecosystem Impacts and Forestry Adaptations*. Invited presentation to *Partners FOR the Saskatchewan River Basin Conference*, September 27 to 28, 1999, Edmonton, Alberta. Saskatchewan Research Council (SRC) Publication No. 10442-3D99.

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Wheaton, E. 1996. *Biodiversity and Climatic Change*. Invited presentation to *Saskatchewan Biodiversity Conference*, April 12, 1995, Regina, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. E-2900-3-D-96.

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Wheaton, E. 1994. *Are We Prepared for a Changing Climate Now and in the Future?* Invited presentation to the Science Festival '94, Holy Cross High School. *Innovators in the Schools*, April 29, 1994, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. E-2900-3-D-94.

Wheaton, E. 1994. *Climate Impacts to the Boreal Forest*. Invited presentation to the *Saskatoon Rotary Club*, February 15, 1994, Saskatoon, Saskatchewan. (No paper available)

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Wheaton, E., A.K. Chakravarti and V. Wittrock. 1993. *The Sensitivity of Dust Storm Hazards to Climatic Conditions on the Canadian Prairies*. *Annual Meeting of the American Association of Geographers*, April 6 to 10, Atlanta, Georgia (Abstract in proceedings). Saskatchewan Research Council (SRC) Publication No. 2900-10-D-93.

Wheaton, E. and J. Masterton. 1993. *Prairie Ecosystem Sustainability and Climatic Variations*. Invited presentation for the *Prairie Conservation and Endangered Species Workshop*, February 14 to 16, 1992, Brandon, Manitoba (Abstract). Saskatchewan Research Council (SRC) Publication No. E-2900-7-D-92.

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Wheaton, E. 1992. *Global Warming: Scenarios for Saskatchewan*. Invited presentation In: *The University of Regina's University Extension's Series "Our Common Future: A Saskatchewan Perspective"*, November 8, 1991, Regina, Saskatchewan (Abstract). Saskatchewan Research Council (SRC) Publication No. E-2900-13-D-92.

Wheaton, E. and R. Lawford. 1992. *Climatic Risks to Canadian Prairie Agriculture*. Invited presentation to *International Canadian Studies Conference, the Israel Assoc. for Canadian Studies*, May 17 to 22, 1992, Jerusalem, Israel, (Abstract in proceedings). Saskatchewan Research Council (SRC) Publication No. E-2900-6-D-92.

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Wheaton, E. 1991. *Climate Change in Saskatchewan*. Invited presentation to *Saskatchewan Rural Development Extension Staff Meeting*, October 1, 1991, Saskatoon, Saskatchewan.

Wheaton, E. 1991. *Climate Impact Assessment in the Canadian Prairies: An Outline from the Past into the Future*. Invited presentation to the *Workshop on Land Surface Processes and Climate*, National Hydrology Research Centre, December 12 to 13, 1991, Saskatoon, Saskatchewan (Abstract). Saskatchewan Research Council (SRC) Publication No. E-2900-8-D-92.

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Wheaton, E. 1991. *Global Warming: How Could it Change Saskatchewan?* Invited presentation In: *The University of Saskatchewan's Extension Division's Midtown Plaza Speaker Series: University to the People*, September 16, 1991, Saskatoon, Saskatchewan. Saskatchewan Research Council (SRC) Publication No. E-2900-5-D-91.

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- Singh, T. and E. Wheaton. 1990. *Global Warming Impacts on Boreal Ecosystem Productivity in Western Canada*. Invited presentation to the *10th World Forestry Congress*, September, 1991, Paris, France. Saskatchewan Research Council (SRC) Publication No. E-2330-9-D-90.
- Wheaton, E. 1990. *Frequency and Severity of Drought and Dust Storms*. Invited presentation to the *Symposium on the Impact of Climate Change on Western Resource Use at the Agricultural Institute of Canada Annual Meeting*, July 23 to 25, 1990, Penticton, British Columbia. Saskatchewan Research Council (SRC) Publication No. E-2330-5-D-90.
- Wheaton, E. 1990. *Adapting Agriculture to Climatic Change*. Invited presentation to the *Parliamentary Forum on Global Climate Change*, April 23 to 24, 1990, Ottawa, Ontario. In: Brightwell, H. (Chairman) *Parliamentary Forum on Global Climate Change*. Queen's Printer for Canada, Ottawa, Ontario. Saskatchewan Research Council (SRC) Publication No. E-2330-3-D-90.
- Wheaton, E. 1990. *Boreal Forest Sensitivity to Climatic Change*. Invited presentation to the *Special Session on Global Change, Canadian Association of Geographers Annual Meeting*, May 30 to June 2, 1990, Edmonton, Alberta. (Abstract in proceedings). Saskatchewan Research Council (SRC) Publication No. E-2000-16-D-90.
- Wheaton, E. 1990. *Climatic Change and the Opportunities It May Bring*. In: *Exploring Sustainability in the Agriculture and Food Industries*. Agriculture Canada, New Westminster, BC. Invited presentation to the *Agricultural Stream of Globe '90, an International Conference and Trade Fair on Business and the Environment*, March 19 to 23, 1990, Vancouver, British Columbia. Saskatchewan Research Council (SRC) Publication No. E-2000-9-D-90.
- Wheaton, E. 1990. *Global Warming - A Canadian Perspective: Brief to the Standing Committee on the Environment of the House of Commons*. Saskatchewan Research Council (SRC) Publication No. E-2000-1-D-90.
- Wheaton, E. 1990. *Global Warming and Agriculture*. Invited presentation to the *Global Agricultural Technology Exposition*, June 3 to 6, 1990, Saskatoon, Saskatchewan.
- Wheaton, E. 1990. *Global Warming and Changing Weather Patterns*. Invited presentation to *Accent '90*, Calgary, Alberta. Saskatchewan Research Council (SRC) Publication No. E-2000-7-D-90.
- Wheaton, E. 1990. *Global Warming and Prairie Agriculture*. Invited presentation to the *Western Grains Research Foundation*, November 5, 1990, Saskatoon, Saskatchewan.
- Wheaton, E. 1990. *Using Climatic Change Scenarios to Model Agroclimatic and Ecoclimatic Impacts*. Invited presentation In: Boughton, B.J. and J.K. Samoil (eds), *Forest Modelling Symposium*, March 13 to 15, 1989, Saskatoon, Saskatchewan. Forestry Canada, Edmonton, Alberta. Saskatchewan Research Council (SRC) Publication No. E-2330-1-A-90.
- Wheaton, E. and V. Wittrock. 1990. *Climatic Change and Wind Erosion by Dust Storms*. Invited presentation and extended abstract In: Wall, G. (ed) *Proceedings of the Canada/U.S. Symposium on the Impacts of Climatic Change and Variability on the Great Plains*, September 11 to 13, 1990, Calgary, Alberta. Department of Geography, University of Waterloo, Waterloo, Ontario. Saskatchewan Research Council (SRC) Publication No. E-2330-8-D-90.

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- Wheaton, E. 1989. *Global Climatic Change - Some Implications*. Invited Presentation for the Science Conference 1989, "Our Planet, Our Future", Saskatchewan Science Teachers Society, Saskatoon. Saskatchewan Research Council (SRC) Publication No. E-2000-31-D-89.

Wheaton, E. 1989. *Using Climatic Change Scenarios to Model Agroclimatic and Ecoclimatic Consequence*. Invited Paper for Presentation at the Forest Modelling Symposium, March 14-15, 1989. Saskatchewan Research Council (SRC) Publication No. E- 906-12-D-89.

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Wheaton, E. and J. Thorpe. 1989. *Changing Climatic Resources for the Western Canadian Boreal Forest*. Paper for Presentation at the 10th Conference on Fire and Forest Meteorology April 17-21, 1989, Ottawa, Ontario Saskatchewan Research Council (SRC) Publication No. E- 906-14-D-89.

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Shewchuk, S. and E. Wheaton. 1988. *Role of Dust in Precipitation Chemistry of Southern Saskatchewan*. Saskatchewan Research Council (SRC) Publication No. E- 906- 9-D-88.

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Stewart, R., K. Jones, E. Wheaton. 1987. *Estimating Effects of Climatic Variability and Change on Prairie Agriculture in Canada*. Saskatchewan Research Council (SRC) Publication No. E- 906-40-D-87

Wheaton, E. 1987. *Agrometeorological Activity in Saskatchewan, November, 1986 to October, 1987*. Saskatchewan Research Council (SRC) Publication No. E- 906-27-D-87

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Whiting, J. and E. Wheaton. 1987. *Is the Largest North American Sub-Arctic Sand Dune Disappearing?* Saskatchewan Research Council (SRC) Publication No. E- 905-10-D-86.

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Wheaton, E. 1986. *Agrometeorological Activities in Saskatchewan, November, 1985 to October, 1986 - Report to the Expert Committee on Argrometeorology Annual Meeting, October 30-31, 1986 at Laval*. Saskatchewan Research Council (SRC) Publication No. E- 906-45-D-86

Wheaton, E. 1986. *Some Characteristics of Dust Storms on the Prairies: The Case of Saskatchewan*. Poster Paper Presentation for the Aeoloian Geomorphology Symposium, September 27-28, 1986. Saskatchewan Research Council (SRC) Publication No. E- 906-25-D-86

Wheaton, E. and A. Chakravarti. 1986. *Some Temporal, Spatial and Climatological Aspects of Dust Storms in Saskatchewan*. (Abstract) Saskatchewan Research Council (SRC) Publication No. E- 906-39-A-86

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## 2008

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