

Appendices for Six decades of environmental resource valuation in Canada: A synthesis of the literature

Forthcoming in *Canadian Journal of Agricultural Economics* (2022)

James Macaskill¹, Patrick Lloyd-Smith^{1 2}

¹ Department of Agricultural and Resource Economics, University of Saskatchewan

² Global Institute for Water Security, University of Saskatchewan

Appendix A Summary of environmental valuation studies in Canada

Study	Province	Method ¹	Environmental asset	Data year
National Studies				
1. (Meng, 1989)	CAN	HPM	Human Health	1981
2. (D. P. A. Group Inc, 1985)	CAN	MKT	Air and Weather	1983
3. (Muller, 1985)	CAN	MKT	Freshwater, Drinking Water	1983
4. (Dachraoui and Harchaoui, 2004)	CAN	MKT	Freshwater	1988
5. (Jarret, 2002)	CAN	MKT	Air and Weather	1991
6. (Renzetti and Dupont, 2003)	CAN	MKT	Freshwater	1991
7. (Environment Canada, 1995)	CAN	CV	Freshwater	1994
8. (Reinsborough, 2003)	CAN	MKT	Agricultural	1995
9. (Rollins and Shaykewich, 2003), (Bay et al., 1998)	CAN	CV	Estuarine and Marine, Parks and Open Spaces, Forests	1995
10. (Bruneau et al., 2010)	CAN	MKT	Freshwater	1996
11. (Cameron et al., 2010)	CAN	CE	Human Health	2002
12. (Hu et al., 2006), (Hu et al., 2004)	CAN	CE	Agricultural, Human Health	2002
13. (Adamowicz et al., 2011b)	CAN	CV, CE	Human Health, Drinking Water	2004
14. (Rudd, 2009)	CAN	CE	Endangered Species, Fish	2006
15. (Beaumais et al., 2010)	CAN	CV	Human Health, Drinking Water	2008
16. (Chestnut et al., 2012)	CAN	CV, CE	Human Health	2008
17. (Hanna et al., 2010)	CAN	MKT	Fish, Freshwater, Forests	2008
18. (Dupont, 2011), (Dupont, 2013)	CAN	CV	Freshwater	2009
19. (Lloyd-Smith et al., 2018)	CAN	AEM	Human Health, Drinking Water	2009
20. (Dupont et al., 2014), (Price et al., 2017)	CAN	CV, CE	Human Health, Freshwater, Drinking Water	2012
21. (Martinez-Espineira et al., 2016), (Martinez-Espineira et al., 2015)	CAN	CV	Fish, Estuarine and Marine	2012
22. (Industrial Economics Incorporated, 2019)	CAN	CE	Human Health	2015
23. (Price et al., 2019)	CAN	CE	Human Health, Freshwater, Drinking Water	2016
Multi-province studies				
24. (Filion et al., 1990)	BC, AB, SK, MB, ON, QC, NB, NS, PEI, NL	CV	Mammals, Birds, Parks and Open Spaces	1987
25. (Michaud, 1989)	ON, QC, NB, NS, PEI, CAN	TCM	Fish, Freshwater	1988
26. (Brefeefe and Morey, 2000)	QC, NB, NS	TCM	Fish, Freshwater, Estuarine and Marine	1988

¹ MKT = market price method; CV = contingent valuation method; CE = choice experiment; TCM = travel cost modelling; HPM = hedonic price modelling; AEM = averting expenditures method.

Valuation of environmental resources in Canada

27.	(Filion et al., 1994)	BC, AB, SK, MB, ON, QC, NB, NS, PEI, NL	CV	Mammals, Birds, Parks and Open Spaces	1991
28.	(Englin et al., 1998), (Boxall et al., 1996d)	MB, ON	TCM	Freshwater, Parks and Open Spaces, Forests	1991
29.	(Macnab and Brusnyk, 1993), (Phillips et al., 1993)	AB, ON	CV	Endangered Species, Mammals, Fish, Birds, Parks and Open Spaces	1991
30.	(Hauer et al., 2005)	MB, ON	TCM	Freshwater, Parks and Open Spaces	1995
31.	(Cavlovic et al., 1997)	NB, NS, PEI	CV	Air and Weather	1996
32.	(Purves, 1997)	NB, NS, PEI, NL	MKT, CV	Air and Weather	1996
33.	(Rollins et al., 1997)	BC, AB, SK, MB, ON, QC, NB, NS, PEI, NL	CV	Drinking Water	1996
34.	(Bruneau, 2007)	AB, SK	MKT	Freshwater	1996
35.	(DuWors et al., 2000)	BC, AB, SK, MB, ON, QC, NB, NS, PEI, NL, YT	MKT, CV	Mammals, Fish, Freshwater, Birds, Parks and Open Spaces, Forests	1996
36.	(Desvousges et al., 1997), (Johnson et al., 2000)	ON, QC	CE	Human Health, Air and Weather	1996
37.	(Slaney et al., 2010), (Slaney et al., 2009)	SK, NB	MKT	Forests	2002
38.	(Chang et al., 2011)	SK, NB	CV	Forests	2007
39.	(Trenholm, 2018)	BC, ON, NB	CE	Freshwater, Wetlands	2011
40.	(Lloyd-Smith, 2021)	BC, AB, SK, MB, ON, QC, NB, NS, PEI, NL, NT, YT	TCM	Mammals, Fish, Birds, Parks and Open Spaces	2012
41.	(Koto and Yiridoe, 2019)	NB, NS, PEI	CV	Human Health, Air and Weather	2014
42.	(Haefele et al., 2019)	AB, SK, MB	CV	Birds	2016
British Columbia					
43.	(Pearse, 1968)	BC	MKT	Mammals	1964
44.	(Laub, 1971), (Pearse and Laub, 1969)	BC	TCM	Fish	1967
45.	(Eby, 1975)	BC	TCM	Parks and Open Spaces	1971
46.	(Meyer, 1974)	BC	CV	Fish, Freshwater	1971
47.	(Meyer, 1978a)	BC	CV	Fish, Estuarine and Marine	1973
48.	(Meyer, 1978b)	BC	CV	Fish, Freshwater	1977
49.	(Reid, 1984)	BC	CV	Fish, Freshwater	1981
50.	(Reid, 1985)	BC	CV	Mammals, Birds	1981
51.	(Renzetti, 1992)	BC	MKT	Freshwater, Drinking Water	1982
52.	(Department of Fisheries and Oceans Canada, 1985)	BC	CV	Fish, Estuarine and Marine	1983
53.	(Cameron and James, 1987), (Cameron and James, 1986)	BC	CV	Fish, Estuarine and Marine	1984
54.	(Duffus and Dearden, 1993)	BC	MKT	Mammals	1988

Valuation of environmental resources in Canada

55. (Kahneman and Knetsch, 1992)	BC	CV	Endangered Species, Mammals, Fish, Human Health, Freshwater, Birds, Parks and Open Spaces, Forests	1988
56. (B.C. Ministry of Forests, Recreation Branch, 1991)	BC	CV	Mammals, Fish, Freshwater, Parks and Open Spaces	1988
57. (Ferguson et al., 1989)	BC	CV	Agricultural, Mammals, Fish, Wetlands, Estuarine and Marine, Birds	1989
58. (Butsic et al., 2011)	BC	HPM	Freshwater	1989
59. (Wardley, 1993)	BC	HPM, CV	Estuarine and Marine	1990
60. (Watson, 1994)	BC	CV	Forests	1990
61. (Rowe et al., 1992)	BC	CV	Mammals, Fish, Estuarine and Marine, Birds	1991
62. (Taccogna, 1993)	BC	TCM	Freshwater, Parks and Open Spaces	1992
63. (Reid et al., 1995)	BC	CV	Parks and Open Spaces, Forests	1993
64. (McDaniels and Roessler, 1998)	BC	CE	Forests	1993
65. (Hauser and van Kooten, 1993)	BC	CV	Drinking Water	1993
66. (Crane Management Consultants, 1994)	BC	CV	Mammals, Fish, Freshwater, Parks and Open Spaces	1993
67. (Athwal, 1994), (van Kooten et al., 1998)	BC	CV	Freshwater	1993
68. (Knowler et al., 2003)	BC	MKT	Fish, Freshwater	1994
69. (Reid et al., 1999)	BC	CV	Mammals, Birds	1996
70. (Sumaila et al., 2001)	BC	MKT	Mammals, Fish, Freshwater	1996
71. (McNeill and Roberge, 2000)	BC	MKT	Air and Weather	1999
72. (Haider et al., 2019)	BC	CE	Human Health, Air and Weather, Forests	2001
73. (Androkovich et al., 2008)	BC	CV	Agricultural	2004
74. (Ministry of Agriculture and Lands, 2007)	BC	TCM, HPM, CV	Agricultural, Parks and Open Spaces	2006
75. (Androkovich, 2015)	BC	TCM, CV	Fish, Freshwater	2006
76. (Robbins et al., 2009)	BC	CV	Agricultural, Mammals, Fish, Birds, Parks and Open Spaces	2008
77. (Muller et al., 2001a)	BC	CE	Birds, Forests	2008
78. (Angus, 2012)	BC	CE	Fish, Freshwater	2008
79. (Cottleer and van Kooten, 2012)	BC	HPM	Agricultural, Parks and Open Spaces	2008
80. (Yip et al., 2012), (Yip et al., 2017)	BC	CE	Fish, Estuarine and Marine	2008
81. (Page, 2010), (Knowler et al., 2017)	BC	MKT	Freshwater, Forests	2008
82. (Ageson, 2011)	BC	MKT	Agricultural, Fish, Freshwater, Drinking Water	2010
83. (Robinson, 2011)	BC	CV	Freshwater, Wetlands	2010
84. (Warren, 2012)	BC	CE	Endangered Species, Mammals	2010

Valuation of environmental resources in Canada

85. (Forbes et al., 2015)	BC	CV	Endangered Species, Estuarine and Marine	2010
86. (Maciak, 2011)	BC	CV	Drinking Water	2011
87. (Irwin, 2015)	BC	CE	Fish, Estuarine and Marine	2013
88. (Geleta, 2017)	BC	CE	Fish, Freshwater	2015
89. (Renzetti et al. (2021)	BC	CE	Freshwater	2015
Alberta				
90. (Miller, 1971)	AB	CV	Mammals, Fish	1968
91. (Pattison, 1970)	AB	CV	Mammals	1968
92. (Prather, 1974)	AB	TCM, CV	Mammals	1969
93. (Development Planning Branch, Water Resources Division-Alberta Department of Agriculture, 1970)	AB	CV	Freshwater	1969
94. (Wilson, 1983)	AB	CV	Mammals, Birds	1976
95. (DePape et al., 1978), (Adamowicz et al., 1986)	AB	CV	Mammals, Fish, Birds	1977
96. (English and Yanosik, 1984)	AB	TCM, CV	Fish	1979
97. (Boxall et al., 1996b)	AB	TCM, CV	Mammals	1981
98. (Adamowicz, 1983)	AB	CV	Mammals	1981
99. (Wilman and Pauls, 1987)	AB	TCM	Freshwater, Parks and Open Spaces	1984
100. (Bodden and Lee, 1986)	AB	TCM, CV	Birds	1985
101. (Alberta Forestry, Lands and Wildlife - Fish & Wildlife Division, 1985)	AB	CV	Fish	1985
102. (Wilman and Perras, 1987), (Wilman and Perras, 1989)	AB	TCM	Parks and Open Spaces	1985
103. (Boxall, 1995)	AB	TCM	Mammals	1986
104. (Thompson et al., 1987b)	AB	CV	Fish, Freshwater	1986
105. (Thompson et al., 1987a)	AB	MKT, CV	Fish, Freshwater	1986
106. (Asafu-Adjaye et al., 1989)	AB	CV	Mammals	1987
107. (Boxall et al., 1991)	AB	CV	Birds	1988
108. (Adamowicz, 1994)	AB	TCM	Fish	1990
109. (Peters et al., 1995a), (Watson et al., 1993), (Watson et al., 1994)	AB	TCM, CE	Fish, Freshwater	1990
110. (Boxall et al., 1996a), (McLeod, 1995), (Adamowicz et al., 1997a), (Adamowicz et al., 1994a), (McLeod et al., 1993)	AB	TCM, CV, CE	Mammals	1990

Valuation of environmental resources in Canada

111. (McNaughton, 1995)	AB	MKT	Mammals, Fish, Freshwater, Wetlands, Birds	1991
112. (Adamowicz et al., 1994b), (Peters et al., 1995b)	AB	TCM, CE	Fish, Freshwater	1991
113. (McNaughton, 1994)	AB	MKT, CV	Fish, Freshwater, Birds	1992
114. (Meisner, 1997)	AB	TCM	Fish, Freshwater	1993
115. (Boxall et al., 1996c)	AB	TCM	Parks and Open Spaces, Forests	1994
116. (Haener and Adamowicz, 1998), (Hailu et al., 2000), (Adamowicz et al., 1998)	AB	CV	Endangered Species, Mammals, Forests	1994
117. (McFarlane and Boxall, 1998)	AB	TCM	Parks and Open Spaces	1995
118. (Hailu et al., 2005)	AB	TCM	Fish, Parks and Open Spaces, Forests	1996
119. (Kim et al., 2016a)	AB	CE	Freshwater	1997
120. (Adamowicz et al., 1997b)	AB	HPM	Freshwater	1997
121. (Boxall et al., 2005)	AB	HPM	Parks and Open Spaces	1997
122. (Kim et al., 2019), (Kim et al., 2016b)	AB	HPM	Freshwater	2005
123. (Adamowicz et al., 2011a), (Truong et al., 2015), (Truong et al., 2018), (Zimmer et al., 2012)	AB	TCM, CE	Mammals, Parks and Open Spaces	2007
124. (Forbes, 2011)	AB	CV	Mammals	2008
125. (Wang, 2010)	AB	CV	Freshwater	2009
126. (Wang et al., 2011)	AB	TCM, HPM	Wetlands	2010
127. (Bewer, 2012)	AB	TCM	Freshwater	2010
128. (Harper, 2012)	AB	CV, CE	Endangered Species	2011
129. (Wang, 2015)	AB	CE	Agricultural	2014
130. (Prescott, 2017)	AB	TCM, CE	Parks and Open Spaces	2014
131. (Appiah et al., 2019)	AB	CV	Freshwater, Drinking Water	2015
132. (Lloyd-Smith and Becker, 2020)	AB	TCM	Parks and Open Spaces	2015
133. (Lloyd-Smith et al., 2019)	AB	CV	Freshwater, Drinking Water	2015
134. (AminiKherzi et al., 2021)	AB	TCM	Freshwater, Parks and Open Spaces	2016
135. (Maher et al., 2020)	AB	MKT	Mammals	2017

Valuation of environmental resources in Canada

136. (Lin, 2019)	AB	CV	Endangered Species, Freshwater	2018
137. (Luo, 2019)	AB	CE	Agricultural	2019

Saskatchewan

138. (Barber and Topolniski, 1986)	SK	TCM	Fish	1982
139. (Bjonback, 1986)	SK	CV	Freshwater	1984
140. (Kulshreshtha and Gillies, 1993a)	SK	HPM	Freshwater	1986
141. (O'Grady, 1987), (Kulshreshtha, 1991)	SK	TCM, CV	Freshwater, Parks and Open Spaces	1986
142. (Kulshreshtha and Gillies, 1993b)	SK	MKT	Freshwater, Drinking Water	1987
143. (Morton et al., 1995)	SK	CV	Mammals	1989
144. (MacAuley, 1992)	SK	TCM, CV	Freshwater	1989
145. (Kulshreshtha and Gillies, 1993c)	SK	CV	Freshwater, Parks and Open Spaces	1989
146. (Kulshreshtha and Gillies, 1994)	SK	MKT, CV	Freshwater, Parks and Open Spaces	1989
147. (Kulshreshtha and Loewen, 1995a)	SK	TCM	Forests	1991
148. (Tanguay et al., 1995)	SK	CV	Mammals	1992
149. (Kulshreshtha and Loewen, 1995b)	SK	CV	Forests	1993
150. (Loewen and Kulshreshtha, 1995c)	SK	TCM	Forests	1993
151. (Boxall and Macnab, 2000)	SK	CE	Mammals, Forests	1993
152. (MacDonald, 1998)	SK	CV	Fish	1994
153. (Loewen and Kulshreshtha, 1995a)	SK	CV	Freshwater, Forests	1994
154. (Loewen and Kulshreshtha, 1995b)	SK	CV	Parks and Open Spaces	1994
155. (Shapansky et al., 2002)	SK	CE	Forests	1998
156. (Haener et al., 2001), (Adamowicz et al., 2004a), (Dosman et al., 2002)	SK	TCM, MKT, CE	Mammals, Forests	1999
157. (Dina, 2002)	SK	CV	Wetlands, Birds	2002
158. (Belcher et al., 2007)	SK	CE	Freshwater, Wetlands	2005
159. (Dias, 2011), (Dias and Belcher, 2015)	SK	CE	Freshwater, Wetlands	2010
160. (Entem et al., 2022)	SK	CV	Endangered Species, Mammals, Birds	2012
161. (Nijhum et al., 2021)	SK	CE	Wetlands, Parks and Open Spaces	2019

Manitoba

162. (Capel and Pandey, 1972)	MB	TCM	Mammals	1967
163. (Spiegel and Krewski, 2002)	MB	CV	Human Health	1988
164. (Kulshreshtha, 1994)	MB	MKT	Freshwater	1990
165. (Englin et al., 1996)	MB	TCM	Freshwater, Parks and Open Spaces, Forests	1991
166. (Beeusaert, 1995)	MB	CV	Mammals	1993
167. (Boxall et al., 2003a)	MB	TCM, CE	Parks and Open Spaces	1994

Valuation of environmental resources in Canada

168. (McComb, 2002)	MB	CV	Human Health, Drinking Water	1999
169. (Pattison et al., 2011), (Boxall et al., 2009)	MB	CV	Freshwater, Wetlands	2008
170. (Mingle, 2017)	MB	CV	Fish, Freshwater	2016
Ontario				
171. (Kreutzwiser, 1981)	ON	TCM	Wetlands	1978
172. (Usher, 1987)	ON	MKT, CV	Fish, Freshwater	1979
173. (Talhelm et al., 1987)	ON	TCM	Fish	1980
174. (Elliot and Mulamoottil, 1992)	ON	MKT	Mammals, Fish, Wetlands	1986
175. (van Vuuren and Roy, 1993), (van Vuuren and Roy, 1990)	ON	TCM	Mammals, Fish, Wetlands	1986
176. (Hvenegaard et al., 1989)	ON	TCM, CV	Estuarine and Marine, Birds	1987
177. (Legg, 1989)	ON	TCM	Fish	1987
178. (Adams, 1990)	ON	TCM	Fish	1987
179. (Ecologistics, 1990)	ON	TCM, CV	Freshwater	1988
180. (Gunderson and Hyatt, 2001)	ON	HPM	Human Health	1988
181. (Zegarac and Muir, 1998)	ON	HPM	Freshwater, Parks and Open Spaces	1989
182. (Brox and Kumar, 1997)	ON	TCM	Parks and Open Spaces	1990
183. (White, 1991)	ON	TCM	Parks and Open Spaces	1990
184. (Legg, 1993)	ON	CV	Fish	1990
185. (Bennet and James, 1998)	ON	MKT	Agricultural, Human Health	1992
186. (Sarker and Surry, 1998)	ON	TCM	Mammals	1992
187. (Johnson, 1995)	ON	TCM, CV	Parks and Open Spaces	1993
188. (Rollins and Wistowsky, 1997), (Boxall et al., 2003b), (Wistowsky, 1995), (Jay, 1996), (Rollins, 1997)	ON	TCM, CV	Freshwater, Parks and Open Spaces	1993
189. (Brox et al., 2003), (Brox et al., 1996)	ON	CV	Mammals, Fish, Human Health, Freshwater, Drinking Water, Birds	1994
190. (Dupont, 2003), (Dupont, 2004)	ON	CV	Fish, Freshwater	1995
191. (MacDonald et al., 1997)	ON	CV	Human Health, Forests	1997
192. (Muller and Diener, 1997), (Muller et al., 2001), (Diener, 1999)	ON	CE	Human Health, Air and Weather	1997
193. (Renzetti and Kushner, 2004)	ON	MKT	Freshwater	1998

Valuation of environmental resources in Canada

194. (Rollins et al., 2008)	ON	CV	Air and Weather	1999
195. (Bowman and Eagles, 2002)	ON	MKT	Parks and Open Spaces	1999
196. (Krupnick et al., 2002), (Alberini et al., 2004), (Alberini et al., 2001)	ON	CV	Human Health	1999
197. (Hunt et al., 2005)	ON	HPM	Fish, Freshwater	2000
198. (Brown, 2002)	ON	CV, CE	Air and Weather	2001
199. (Tkac, 2002)	ON	CV	Endangered Species, Fish, Wetlands, Birds	2001
200. (Shantz et al., 2004)	ON	MKT, CV	Parks and Open Spaces	2003
201. (Rollins and Lyke, 1998), (Rollins and Dumitras, 2005)	ON	TCM, CV	Freshwater, Parks and Open Spaces, Forests	2003
202. (DSS Management Consultants Inc, 2009)	ON	HPM	Wetlands, Parks and Open Spaces	2004
203. (Hunt et al., 2007)	ON	TCM	Fish	2004
204. (RWDI Air Inc, 2005)	ON	MKT	Agricultural, Human Health	2005
205. (Potoglou and Kanaroglou, 2007)	ON	CE	Air and Weather	2005
206. (DSS Management Consultants Inc, 2008)	ON	TCM	Fish	2006
207. (Sverrisson et al., 2008)	ON	CV	Parks and Open Spaces, Forests	2006
208. (Vyn and McCullough, 2014)	ON	HPM	Parks and Open Spaces	2006
209. (DSS Management Consultants Inc., 2008)	ON	TCM	Fish	2006
210. (Pothier and Millward, 2013)	ON	MKT	Forests	2008
211. (Heintzelman et al., 2017)	ON	HPM	Parks and Open Spaces	2008
212. (Berghoef and Dodds, 2011)	ON	CV	Agricultural	2009
213. (Rahman et al., 2021)	ON	HPM	Freshwater	2009
214. (Lantz et al., 2013), (Lantz et al., 2010)	ON	CV	Agricultural, Freshwater, Wetlands, Birds	2009
215. (Calderon-Arrieta et al., 2019), (Clapper and Caudill, 2014)	ON	HPM	Freshwater	2010
216. (Rudd et al., 2016)	ON	CE	Endangered Species, Fish, Wetlands	2011
217. (Dodds et al., 2016)	ON	CV	Human Health	2012
218. (Hunt et al., 2020)	ON	CE	Fish, Freshwater	2016
Quebec				
219. (Cousineau et al., 1992)	QC	HPM	Human Health	1979

Valuation of environmental resources in Canada

220. (Lanoie et al., 1995)	QC	HPM, CV	Human Health	1984
221. (Leger, 2001)	QC	MKT	Human Health, Air and Weather	1992
222. (Clapin-Pepin, 1997)	QC	CV	Endangered Species, Fish	1995
223. (Traore et al., 1999)	QC	AEM	Freshwater	1995
224. (Des Rosiers et al., 2002)	QC	HPM	Parks and Open Spaces	1996
225. (Martin and Marceau, 2001)	QC	AEM, CV	Freshwater	1997
226. (Bouchard et al., 2003)	QC	MKT, CV	Agricultural, Forests	1999
227. (Ho, 2008)	QC	CV	Forests	2006
228. (Olar, 2007), (Boxall et al., 2012)	QC	CE	Endangered Species, Mammals, Estuarine and Marine	2006
229. (Yapo et al., 2015)	QC	CV	Freshwater	2008
230. (Dupras et al., 2018), (Reveret et al., 2009), (He et al., 2020)	QC	CV, CE	Agricultural, Fish, Freshwater, Birds, Parks and Open Spaces, Forests	2008
231. (Poder and He, 2017)	QC	CE	Human Health, Air and Weather	2009
232. (Roy-Vigneault, 2009), (Vossler et al., 2012)	QC	CE	Agricultural, Freshwater, Forests	2009
233. (He et al., 2019), (He et al., 2016)	QC	TCM, CV	Fish, Freshwater, Parks and Open Spaces, Forests	2012
234. (Larue et al., 2014), (Larue et al., 2017)	QC	CE	Agricultural, Freshwater, Drinking Water	2012
235. (He et al., 2017)	QC	CV, CE	Endangered Species, Freshwater, Wetlands	2013
236. (Dupras et al., 2015)	QC	CV	Endangered Species, Freshwater, Parks and Open Spaces, Forests	2014
237. (Vossler et al., 2020)	QC	CV	Wetlands	2014
238. (L'Ecuyer-Sauvageau et al., 2019)	QC	CE	Human Health, Freshwater	2017
239. (Schinck et al., 2020)	QC	CV	Human Health, Freshwater, Drinking Water	2017
New Brunswick				
240. (Bowker and Didychuk, 1994)	NB	CV	Agricultural	1991
241. (MacGregor, 1998)	NB	TCM	Mammals	1994
242. (Draker, 1997)	NB	CV	Freshwater	1996
243. (Foster, 2002)	NB	CV	Freshwater	1999
244. (Trenholm et al., 2013)	NB	CV	Wetlands	2004
245. (Wilson et al., 2010), (Wilson et al., 2012)	NB	MKT, CV	Forests	2006
246. (Lantz et al., 2012)	NB	CV	Freshwater	2008
Nova Scotia				
247. (Watt, 1986)	NS	MKT	Fish	1984
248. (Stokoe et al., 1989)	NS	MKT, CV	Agricultural, Mammals, Fish, Freshwater, Wetlands, Birds	1989
249. (Neupane and Gustavson, 2008)	NS	HPM	Human Health, Parks and Open Spaces	1997

Valuation of environmental resources in Canada

250. (MacDonald, 1999)	NS	CV	Freshwater, Drinking Water	1999
251. (Walker et al., 2004)	NS	AEM, MKT	Human Health, Parks and Open Spaces	2000
252. (Ferrara et al., 2007)	NS	HPM	Human Health, Parks and Open Spaces	2000
253. (Janmaat, 2007)	NS	AEM	Human Health, Drinking Water	2004
254. (Gardner Pinfold Consulting Economists ltd, 2011)	NS	MKT	Fish, Freshwater, Estuarine and Marine	2010
255. (Withey et al., 2019)	NS	CV	Estuarine and Marine	2016

Prince Edward Island

256. (MacDonald et al., 2000)	PEI	MKT	Fish	1999
257. (Martinez-Espineira, 2007), (Martinez-Espineira, 2006)	PEI	CV	Mammals	2000
258. (Adamowicz et al., 2004b)	PEI	MKT	Agricultural, Human Health	2003
259. (Gardner Pinfold Consulting Economists ltd, 2005)	PEI	CV	Freshwater	2005
260. (Crane et al., 2009), (Cheverie et al., 2009)	PEI	MKT, CE	Agricultural, Fish, Human Health, Freshwater, Drinking Water, Estuarine and Marine, Birds, Parks and Open Spaces	2008

Newfoundland and Labrador

261. (Akuba et al., 1996), (Tompson et al., 1987)	NL	TCM	Mammals	1991
262. (Adamowicz and Condon, 1997), (Condon, 1993)	NL	MKT, CV	Endangered Species, Mammals, Freshwater, Birds, Forests	1992
263. (Martinez-Espineira and Amoako-Tuffour, 2008)	NL	TCM	Parks and Open Spaces	2004
264. (Grafton et al., 2009)	NL	MKT	Fish	2005
265. (Martinez-Espineira and Lyssenko, 2012), (Martinez-Espineira and Lyssenko, 2011), (Lyssenko and Martinez-Espineira, 2012b), (Lyssenko and Martinez-Espineira, 2012a)	NL	CV	Endangered Species, Mammals, Estuarine and Marine	2005
266. (Martinez-Espineira et al., 2014)	NL	CV	Mammals, Human Health	2010
267. (Xuan et al., 2021)	NL	CE	Estuarine and Marine	2019

Northwest Territories

268. (Ames and Committee, 1989)	NT	MKT	Mammals	1988
269. (Ashley, 2000)	NT	MKT	Mammals	1999

Yukon (no territory specific studies)**Nunavut** (no territory specific studies)**Full Citations for Database Studies**

- Adamowicz, W.L. (1983). Economic analysis of hunting of selected big game species in the eastern slopes of Alberta. MSc. Thesis. University of Alberta.
- Adamowicz, W.L. (1994). Habit Formation and Variety Seeking in a Discrete Choice Model of Recreation Demand. *Journal of Agricultural and Resource Economics* 19, 19–31.
- Adamowicz, W.L., and Condon, B.S. (1997). Socio-Economic Aspects of Marten Management. In Martens: Taxonomy, Ecology, Techniques and Management, H. Bryant, P. Woodard, and G. Proulx, eds. (Canada: Provincial Museum of Alberta), pp. 395–406.
- Adamowicz, W.L., Phillips, W.E., and Pattison, W.S. (1986). The Distribution of Economic Benefits from Alberta Duck Production. *Wildlife Society Bulletin (1973-2006)* 14, 396–398.
- Adamowicz, W.L., Boxall, P.C., Louviere, J.J., Swait, J., and Williams, M. (1994a). Stated Preference Methods for Environmental Valuation (Alberta, Canada: Department of Rural Economy, Faculty of Agriculture, University of Alberta).
- Adamowicz, W.L., Louviere, J., and Williams, M. (1994b). Combining Revealed and Stated Preference Methods for Valuing Environmental Amenities. *Journal of Environmental Economics and Management* 26, 271–292.
- Adamowicz, W.L., Swait, J., Boxall, P., Louviere, J., and Williams, M. (1997a). Perceptions versus Objective Measures of Environmental Quality in Combined Revealed and Stated Preference Models of Environmental Valuation. *Journal of Environmental Economics and Management* 32, 65–84.
- Adamowicz, W.L., Veeman, M.M., Baggs, J., Royer, S., Veeman, T.S., and Viney, B. (1997b). Conserving Water in Irrigated Agriculture: The Economics and Valuation of Water Rights (Canada: Department of Rural Economy, University of Alberta).
- Adamowicz, W.L., Boxall, P., Williams, M., and Louviere, J. (1998). Stated Preference Approaches for Measuring Passive Use Values: Choice Experiments and Contingent Valuation. *American Journal of Agricultural Economics* 80, 64–75.
- Adamowicz, W.L., Boxall, P., Haener, M., Zhang, Y., Dosman, D., and Marois, J. (2004a). An Assessment of the Impacts of Forest Management on Aboriginal Hunters: Evidence from Stated and Revealed Preference Data. *Forest Science* 50, 139–152.
- Adamowicz, W.L., Veeman, M.M., and White, E. (2004b). Financial And Health Costs Of Pesticide Use In Growing Conventional And Genetically Modified Potatoes In Prince Edward Island. (Halifax, Nova Scotia), p. 20.
- Adamowicz, W.L., Boxall, P., and Truong, T. (2011a). Health Risk Perception, Hunting Site Choice and Chronic Wasting Disease: Modeling the Effect of Risk on Preferences and Choice Set Formation Over Time. In *Health Risk Perception, Hunting Site Choice and Chronic Wasting Disease: Modeling the Effect of Risk on Preferences and Choice Set Formation Over Time*, (Seattle, Washington), p.
- Adamowicz, W.L., Dupont, D., Krupnick, A., and Zhang, J. (2011b). Valuation of cancer and microbial disease risk reductions in municipal drinking water: An analysis of risk context using multiple valuation methods. *Journal of Environmental Economics and Management* 61, 213–226.
- Adams, S. (1990). Estimating the demand for fishing site quality in Ontario: an application of the hedonic travel cost method. Master's Thesis. Queen's University.
- Ageson, K. (2011). Agricultural Nutrient Management Employing the Concept of Ecological Goods and Services: A Valuation of Ground Water Quality in Abbotsford, British Columbia. Master Thesis,. Department of Agricultural Economics, University of British Columbia.
- Akabua, K.M. (1996). Economic valuation of nontimber resources under a lottery rationing system: the case of moose hunting in Newfoundland.
- Akuba, K., Adamowicz, W., Phillips, W., and Trelawny, P. (1996). A Random Utility Model with Uncertain (Lotter-Rationed) Choice Data: A Utility Nonmarket Valuation of Recreational Hunting (Department of Rural Economy. University of Alberta).
- Alberini, A., Krupnick, A., Cropper, M., Simon, N., and Cook, J. (2001). The Willingness to Pay for Mortality Risk Reductions: A Comparison of the United States and Canada.
- Alberini, A., Cropper, M., Krupnick, A., and Simon, N.B. (2004). Does the value of a statistical life vary with age and health status? Evidence from the US and Canada. *Journal of Environmental Economics and Management* 48, 769–792.
- Alberta Forestry, Lands and Wildlife - Fish & Wildlife Division (1985). Sport Fishing in Alberta (Ottawa, Ontario: Dept. of Fisheries and Oceans).
- Ames, R., and Committee, C.A.R. (1989). Keeping on the land: A study of the feasibility of a comprehensive wildlife harvest support programme in the Northwest Territories (Canadian Arctic Resources Committee).
- AminiKherzi, N., Lloyd-Smith, P.R., and Becker, M. (2021). Water quality advisory impacts on recreation and associated economic costs.
- Amoako-Tuffour, J., and Martínez-Espíñeira, R. (2012). Leisure and the Net Opportunity Cost of Travel Time in Recreation Demand Analysis: An Application to Gros Morne National Park. *Journal of Applied Economics* 15, 25–49.
- Androkovich, R.A. (2015). Recreational Visits to the Adam's River During the Annual Sockeye Run: A Travel Cost Analysis. *Marine Resource Economics* 30, 35–49.

- Androkovich, R., Desjardins, I., Tarzwell, G., and Tsigaris, P. (2008). Land Preservation in British Columbia: An Empirical Analysis of the Factors Underlying Public Support and Willingness to Pay. *Journal of Agricultural and Applied Economics*; Baton Rouge 40, 999–1013.
- Angus, D. (2012). Valuing Ecosystem Services in the Salmon River Watershed, British Columbia: A Choice Experiment Approach. Master's Thesis,. School of Resource and Environmental Management, Simon Fraser University.
- Appiah, A., Adamowicz, W., Lloyd-Smith, P., and Dupont, D. (2019). Reliability of Drinking Water: Risk Perceptions and Economic Value. *Water Economics and Policy* 05, 1850020.
- Asafu-Adjaye, J., Phillips, W., and Adamowicz, W.L. (1989). Towards the Measurement of Total Economic Value: The Case of Wildlife Resources in Alberta (University of Alberta).
- Ashley, B. (2000). Economic benefits of outfitted hunts for barren-ground caribou in the Northwest Territories (Yellowknife, NWT: Wildlife and Fisheries Division, Department of Resources, Wildlife and Economic Development).
- Athwal, R.K. (1994). Cost and benefits of improving water quality by composting livestock wastes: a contingent valuation approach. University of British Columbia.
- Barber, A., and Topolniski, D. (1986). A hedonic travel cost survey of Saskatchewan's sport fishery (Winnipeg, Manitoba: Regional economic and marketing service department of fisheries and ocean western region).
- Bay, W., Rollins, K., Gunning-Trant, C., and Lyke, A. (1998). Estimating Existence Values For Four Proposed Park Sites In The Northwest Territories: Bluenose Lake And Melville Hills, East Arm Of Great Slave Lake (Canada: Parks Canada).
- B.C. Ministry of Forests, Recreation Branch (1991). Outdoor Recreation Survey 1989/90: How British Columbians Use and Value their Public Forest Lands for Recreation (Victoria, B.C.).
- Beaumais, O., Briand, A., Millock, K., and Nauges, C. (2010). What are Households Willing to Pay for Better Tap Water Quality? A Cross-Country Valuation Study (Université Panthéon-Sorbonne (Paris 1), Centre d'Economie de la Sorbonne).
- Beusaert, D. (1995). The Non-Consumptive Values of Wildlife in the Riding Mountain Area. Master Thesis,. The University of Manitoba.
- Belcher, K.W., Germann, A.E., and Schmutz, J.K. (2007). Beef with environmental and quality attributes: Preferences of environmental group and general population consumers in Saskatchewan, Canada. *Agriculture and Human Values* 24, 333–342.
- Bennet, M., and James, P. (1998). Full-Cost Accounting for Decision-Making at Ontario Hydro 1. In *The Green Bottom Line*, M. Bennet, and P. James, eds. (Sheffield, England: Greenleaf Publishing), p.
- Berghoef, N., and Dodds, R. (2011). Potential for sustainability eco-labeling in Ontario's wine industry. *International Journal of Wine Business Research* 23, 298–317.
- Bewer, R. (2012). Recreational Ecosystem Service Benefits from the Chestermere Lake Reservoir: Value for Day Use Non-Resident Visitors. Master Thesis,. Department of Geography, University of Lethbridge.
- Bjonback, R.D. (1986). The Value of Water-Based Recreation Losses Associated With Drought: The Case of Lake Diefenbaker 1984. (Regina, Saskatchewan: National Research Council of Canada), p.
- Bodden, K., and Lee, P. (1986). The 1985 Economic Survey of Alberta Pheasant Hunters (Alberta Fish and Wildlife Division - Resource Economics and Assessment Section).
- Bouchard, P., Desjardins, S., Duval, B., Hebert, F., Lacasse, M., Lapointe, M.-J., Letendre, M., and G. Ouellet, G.T. (2003). Évaluation des répercussions économiques de la production porcine sur la faune et ses habitats.
- Bowker, J.M., and Didychuk, D.D. (1994). Estimation of the Nonmarket Benefits of Agricultural Land Retention in Eastern Canada. *Agricultural and Resource Economics Review* 23, 218–225.
- Bowman, M.E., and Eagles, P.F.J. (2002). Tourism Spending in Algonquin Provincial Park (Department of Recreation and Leisure Studies, University of Waterloo).
- Boxall, P.C. (1995). The Economic Value of Lottery-rationed Recreational Hunting. *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 43, 119–131.
- Boxall, P.C., and Macnab, B. (2000). Exploring the preferences of wildlife recreationists for features of boreal forest management: a choice experiment approach. *Canadian Journal of Forest Research* 30, 1931–1941.
- Boxall, P.C., Stelfox, H.A., and Hvenegaard, G.T. (1991). A socioeconomic study of urban participants in the 1988 christmas bird count in Alberta (Alberta Forestry, Lands and Wildlife).
- Boxall, P.C., Adamowicz, W.L., Swait, J., Williams, M., and Louviere, J. (1996a). A comparison of stated preference methods for environmental valuation. *Ecological Economics* 18, 243–253.
- Boxall, P.C., Adamowicz, W.L., and Tomasi, T. (1996b). A Nonparametric Test of the Traditional Travel Cost Model. *Canadian Journal of Agricultural Economics/Revue Canadienne D'agroeconomie* 44, 183–193.
- Boxall, P.C., McFarlane, B.L., and Gartrell, M. (1996c). An aggregate travel cost approach to valuing forest recreation at managed sites. *The Forestry Chronicle* 72, 615–621.
- Boxall, P.C., Watson, D.O., and Englin, J. (1996d). Backcountry recreationists' valuation of forest and park management features in wilderness parks of the western Canadian Shield. *Canadian Journal of Forest Research* 26, 982–990.
- Boxall, P.C., Englin, J., and Adamowicz, W.L. (2003a). Valuing aboriginal artifacts: a combined revealed-stated preference approach. *Journal of Environmental Economics and Management* 45, 213–230.

- Boxall, P.C., Rollins, K., and Englin, J. (2003b). Heterogeneous preferences for congestion during a wilderness experience. *Resource and Energy Economics* 25, 177–195.
- Boxall, P.C., Chan, W.H., and McMillan, M.L. (2005). The impact of oil and natural gas facilities on rural residential property values: a spatial hedonic analysis. *Resource and Energy Economics* 27, 248–269.
- Boxall, P.C., Gabor, T.S., and Pattison, J.K. (2009). Estimates of Passive Use Values of Wetland Restoration and Retention in Southern Manitoba. In *Ecological Goods and Services Technical Meeting*, (Ottawa, Canada), p.
- Boxall, P.C., Adamowicz, W.L., Olar, M., West, G.E., and Cantin, G. (2012). Analysis of the economic benefits associated with the recovery of threatened marine mammal species in the Canadian St. Lawrence Estuary. *Marine Policy* 36, 189–197.
- Bradshaw, P.G. (2009). Valuing old-growth forests and related qualities in Southwest mainland British Columbia using contingent choice. Master Thesis., School of Resource and Environmental Management, Simon Fraser University.
- Breffele, W.S., and Morey, E.R. (2000). Investigating Preference Heterogeneity in a Repeated Discrete-Choice Recreation Demand Model of Atlantic Salmon Fishing. *Marine Resource Economics* 15, 1–20.
- Brown, J.S. (2002). Valuation of weather forecast services: discrete choice and CVM approaches. Master Thesis., Department of Agricultural Economics and Business, University of Guelph.
- Brox, J.A., and Kumar, R.C. (1997). Valuing Campsite Characteristics: A Generalized Travel-Cost Model of Demand for Recreational Camping. *Environmetrics* 8, 87–106.
- Brox, J.A., Kumar, R.C., and Stollery, K.R. (1996). Willingness To Pay for Water Quality and Supply Enhancements in the Grand River Watershed. *Canadian Water Resources Journal* 21, 275–288.
- Brox, J.A., Kumar, R.C., and Stollery, K.R. (2003). Estimating Willingness to Pay for Improved Water Quality in the Presence of Item Nonresponse Bias. *American Journal of Agricultural Economics* 85, 414–428.
- Bruneau, J. (2007). Economic Value of Water in the South Saskatchewan River Basin. *Climate Change and Water*.
- Bruneau, J., Renzetti, S., and Villeneuve, M. (2010). Manufacturing Firms’ Demand for Water Recirculation. *Canadian Journal of Agricultural Economics/Revue Canadienne d’agroeconomie* 58, 515–530.
- Butsic, V., Hanak, E., and Valletta, R.G. (2011). Climate change and housing prices: hedonic estimates for ski resorts in Western North America. *Land Economics* 87, 75–91.
- Calderón-Arrieta, D., Caudill, S.B., and Mixon, F.G. (2019). Valuing recreational water clarity and quality: evidence from hedonic pricing models of lakeshore properties. *Applied Economics Letters* 26, 237–244.
- Cameron, T.A., and James, M.D. (1986). The Determinants of Value for a Recreational Fishing Day: Estimates from a Contingent Valuation Survey (UCLA Department of Economics).
- Cameron, T.A., and James, M.D. (1987). Efficient Estimation Methods for “Closed-Ended” Contingent Valuation Surveys. *The Review of Economics and Statistics* 69, 269–276.
- Cameron, T.A., DeShazo, J.R., and Stiffler, P. (2010). Demand for health risk reductions: A cross-national comparison between the U.S. and Canada. *Journal of Risk and Uncertainty* 41, 245–273.
- Capel, R., and Pandey, R. (1972). Estimation of benefits from deer and moose hunting in Manitoba. *Canadian Journal of Agricultural Economics/Revue Canadienne d’agroeconomie* 20, 7–16.
- Cavlovic, A., Forkes, J.L., and Rollins, K. (1997). The Economic Value of Environment Canada’s Weatheradio Service for Users in Maritime Communities of Atlantic Canada (Department of Agricultural Economics and Business, University of Guelph).
- Chang, W.-Y., Lantz, V.A., and MacLean, D.A. (2011). Social Benefits of Controlling Forest Insect Outbreaks: A Contingent Valuation Analysis in Two Canadian Provinces. *Canadian Journal of Agricultural Economics/Revue Canadienne d’agroeconomie* 59, 383–404.
- Chestnut, L.G., Rowe, R.D., and Breffle, W.S. (2012). Economic Valuation of Mortality-Risk Reduction: Stated Preference Estimates from the United States and Canada. *Contemporary Economic Policy* 30, 399–416.
- Cheverie, F., Crane, C., Lantz, V., Gregory, G., Mellish, S., and Jiang, Y. (2009). PEI Ecological Goods and Services Pilot Project. Souris and Area Branch of the Prince Edward Island Wildlife Federation.
- Clapin-Pépin, D. (1997). Au moins 25 millions de dollars pour le suceur cuivré. *Le Naturaliste canadien* 121, 26–34.
- Clapper, J., and Caudill, S.B. (2014). Water quality and cottage prices in Ontario. *Applied Economics* 46, 1122–1126.
- Condon, B.Susan. (1993). The Economic Valuation of Nontimber Resources in Newfoundland: A CVM Approach. Master Thesis., Department of Rural Economy, University of Alberta.
- Cotteleer, G., and van Kooten, G.C. (2012). Expert opinion versus actual transaction evidence in the valuation of non-market amenities. *Economic Modelling* 29, 32–40.
- Cousineau, J.-M., Lacroix, R., and Girard, A.-M. (1992). Occupational Hazard and Wage Compensating Differentials. *The Review of Economics and Statistics* 74, 166–169.
- Crane, C., Lantz, V., Cheverie, F., Gregory, G., Mellish, S., and Jiang, Y. (2009). Ecological Goods and Services Technical Meeting: Prince Edward Island Ecological Goods & Services Pilot Project.
- Crane Management Consultants (1994). Survey of outdoor recreation experiences in the Fraser River Basin (North Vancouver: Environment Canada).
- Crowther, R., and Ltd, P. (1987). Bow River Recreation Use and Economic Benefits (Burnaby, BC).

- D. P. A. Group Inc (1985). The Economic Value of Weather Information in Canada (Atmospheric Environment, Environment Canada).
- Dachraoui, K., and Harchaoui, T.M. (2004). Water Use, Shadow Prices and the Canadian Business Sector Productivity Performance (Ottawa, Canada: Statistics Canada).
- DePape, D., Phillips, W., and Ewanyk, L. (1978). A socioeconomic evaluation of the recreational use of fish and wildlife resources in Alberta, with particular reference to the AOSERP study area. Volume I: Summary and conclusions.
- Department of Fisheries and Oceans Canada (1985). Sport Fishing in British Columbia Tidal Waters, 1985.
- Des Rosiers, F., Thériault, M., Kestens, Y., and Villeneuve, P. (2002). Landscaping and House Values:: An Empirical Investigation. *The Journal of Real Estate Research* 23, 139–162.
- Desvousges, W.H., Johnson, F.R., Banzhaf, M.R., and Gable, A.R. (1997). Valuing Stated Preferences for Health Benefits of Improved Air Quality: Results of a Pilot Study.
- Development Planning Branch, Water Resources Division-Alberta Department of Agriculture (1970). Recreation Benefits of Reservoirs (Water Resources Alberta).
- Dias, V. (2011). Values of Ecological Goods and Services Provided by Wetland for Policy Development in Saskatchewan. Master Thesis,. Department of Bioresource Policy, Business and Economics, University of Saskatchewan.
- Dias, V., and Belcher, K. (2015). Value and provision of ecosystem services from prairie wetlands: A choice experiment approach. *Ecosystem Services* 15, 35–44.
- Diener, A. (1999). Valuing Health and Air Quality Using Stated Preference Methods. PhD Dissertation,. McMaster University.
- Dina, A.A. (2002). Non-market valuation: case of a Saskatchewan wetland. PhD Thesis. University of Saskatchewan.
- Dodds, R., Pitts, R.E., and Smith, W.W. (2016). Willingness to Pay for Environmentally Linked Clothing at an Event: Visibility, Environmental Certification, and Level of Environmental Concern. *Tourism Recreation Research* 41, 283–290.
- Dosman, D., Haener, M., Adamowicz, W., Marois, J., and Boxall, P. (2002). Assessing Impacts of Environmental Change on Aboriginal People: An Economic Examination of Subsistence Resource Use and Value (Canada: Department of Rural Economy, University of Alberta).
- Doyon-Blondin, A. (2013). La valeur économique des milieux humides du Québec.
- Draker, D.A. (1997). Recreational valuation, a dichotomous choice approach. M.A. Thesis. The University of New Brunswick.
- DSS Management Consultants Inc (2008). The Credit Watershed: Social, Economic and Environmental Services Provided to the Watershed Community - Valuation Of Angling (Ontario, Canada: Credit Valley Conservation).
- DSS Management Consultants Inc. (2008). Valuation of Angling (Mississauga, ON: Credit Valley Conservation).
- DSS Management Consultants Inc (2009). The Impact of Natural Features on Property Values (Ontario, Canada: Credit Valley Conservation).
- Duffus, D.A., and Dearden, P. (1993). Recreational Use, Valuation, and Management, of Killer Whales (*Orcinus orca*) on Canada's Pacific Coast. *Environmental Conservation* 20, 149–156.
- Dupont, D.P. (2003). CVM Embedding Effects When There Are Active, Potentially Active and Passive Users of Environmental Goods. *Environmental and Resource Economics* 25, 319–341.
- Dupont, D.P. (2004). Do children matter? An examination of gender differences in environmental valuation. *Ecological Economics* 49, 273–286.
- Dupont, D.P. (2011). Reclaimed Wastewater and the WTP to Avoid Summer Water Restrictions: Incorporating Endogenous Free-Riding Beliefs. (Warwick University), p. 32.
- Dupont, D.P. (2013). Water use restrictions or wastewater recycling? A Canadian willingness to pay study for reclaimed wastewater. *Water Resources and Economics* 1, 61–74.
- Dupont, D.P., Price, J., and Adamowicz, W. (2014). Temporal Stability of Water Quality Values across Stated Preference Question Formats. In *5th World Congress of Environmental and Resource Economists*, (Istanbul, Turkey), p.
- Dupras, J., Poder, T., Ndefo, F.F., and He, J. (2015). La Valeur Économique de la Ceinture et Trame Bleue du Grand Montréal. La Contribution des Écosystèmes Aquatiques à la Qualité de Vie des Communautés. (Montréal, Quebec: Fondation David Suzuki).
- Dupras, J., Laurent-Lucchetti, J., Revéret, J.-P., and DaSilva, L. (2018). Using contingent valuation and choice experiment to value the impacts of agri-environmental practices on landscapes aesthetics. *Landscape Research* 43, 679–695.
- DuWors, E., Villeneuve, M., Filion, F.L., Reid, R., Bouchard, P., Legg, D., Boxall, P., Williamson, T., Bath, A., and Meis, S. (2000). The Importance of Nature to Canadians: The Economic Significance of Nature-related Activities (Minister of Environment).
- Eby, P.A. (1975). The value of outdoor recreation: a case study. University of British Columbia.
- Ecologistics (1990). Benefits to Beach Users from Water Quality Improvements (Ontario, Canada: Environment Ontario).
- Elliot, L., and Mulamootil, G. (1992). Agricultural and Marsh Land Uses on Walpole Island: Profit Comparisons. *Canadian Water Resources Journal* 17, 111–119.
- Englin, J., Boxal, P.C., Chakraborty, K., and Watson, D.O. (1996). Valuing the impacts of forest fires on backcountry forest recreation. *Forest Science* 450–455.
- Englin, J., Boxall, P., and Watson, D. (1998). Modeling Recreation Demand in a Poisson System of Equations: An Analysis of the Impact of International Exchange Rates. *American Journal of Agricultural Economics* 80, 255–263.

- English, W.G., and Yanosik, L. (1984). Angler Opinion Survey: Cypress Hills Provincial Park, 1979 (Alberta Fish and Wildlife Division).
- Entem, A., Lloyd-Smith, P., Adamowicz, W.L., and Boxall, P.C. (2022). Using inferred valuation to quantify survey and social desirability bias in stated preference research. *American Journal of Agricultural Economics*
- Environment Canada (1995). *Contingent Valuation of Environmental Effects Associated With Dry Cleaning*.
- Ferguson, A., Holman, G., and Kristritz, R.U. (1989). Wetlands are not Wastelands: Application of Wetland Evaluation Methods to the Cowichan Estuary, British Columbia (Canadian Wildlife Service).
- Ferrara, I., McComb, S., and Missios, P. (2007). Local Willingness-to-Pay Estimates for the Remediation of the Sydney Tar Ponds in Nova Scotia. *Canadian Public Policy* 33, 441–458.
- Filion, F.L., Jacquemot, A., Boxall, P., Reid, R., Bouchard, P., DuWors, E., and Gray, P.A. (1990). The Importance of Wildlife to Canadians in 1987: The Economic Significance of Wildlife-Related Recreational Activities.
- Filion, F.L., Jacquemot, A., DuWors, E., Reid, R., Boxall, P., Bouchard, P., Gray, P.A., and Bath, A. (1994). The Importance of Wildlife to Canadians: The Economic Significance of Wildlife-Related Recreational Activities in 1991 (Canadian Wildlife Service).
- Forbes, K. (2011). What economic value do Albertans place on containing Chronic Wasting Disease? ERA.
- Forbes, K., Boxall, P.C., Adamowicz, W.L., and De Maio Sukic, A. (2015). Recovering Pacific rockfish at risk: the economic valuation of management actions. *Frontiers in Marine Science* 2.
- Foster, R. (2002). Applying Contingent Valuation to the Saint John Harbour. MSc. Thesis. University of New Brunswick.
- Gardner Pinfold Consulting Economists Ltd (2005). *Valuing the Benefits of Improving Municipal Wastewater Treatment in Canada* (Environment Canada Dartmouth, Nova Scotia).
- Gardner Pinfold Consulting Economists Ltd (2011). *Economic Value of Wild Atlantic Salmon*.
- Geleta, S. (2017). *Measuring Citizens' Preferences For Protecting Environmental Resources: Applications Of Choice Experiment Surveys, Social Network Analysis And Deliberative Citizens' Juries*. PhD Dissertation,. Colorado State University.
- Grafton, R.Q., Kompas, T., and Van Ha, P. (2009). Cod Today and None Tomorrow: The Economic Value of a Marine Reserve. *Land Economics* 85, 454–469.
- Gunderson, M., and Hyatt, D. (2001). Workplace Risks and Wages: Canadian Evidence from Alternative Models. *Canadian Journal of Economics/Revue Canadienne D'Economie* 34, 377–395.
- Haeefe, M.A., Loomis, J.B., Lien, A.M., Dubovsky, J.A., Merideth, R.W., Bagstad, K.J., Huang, T.-K., Mattsson, B.J., Semmens, D.J., Thogmartin, W.E., et al. (2019). Multi-country Willingness to Pay for Transborder Migratory Species Conservation: A Case Study of Northern Pintails. *Ecological Economics* 157, 321–331.
- Haener, M.K., and Adamowicz, W.L. (1998). Analysis of “Don’t Know” Responses to Referendum Contingent Valuation Questions. *Agricultural and Resource Economics Review* 27, 218–230.
- Haener, M.K., Dosman, D., Adamowicz, W.L., and Boxall, P.C. (2001). Can Stated Preference Methods Be Used to Value Attributes of Subsistence Hunting by Aboriginal Peoples? A Case Study in Northern Saskatchewan. *American Journal of Agricultural Economics* 83, 1334–1340.
- Haider, W., Knowler, D., Trenholm, R., Moore, J., Bradshaw, P., and Lertzman, K. (2019). Climate Change, Increasing Forest Fire Incidence and the Value of Visibility: Evidence from British Columbia, Canada. *Canadian Journal of Forest Research* 49, 1242–1255.
- Hailu, A., Adamowicz, W.L., and Boxall, P.C. (2000). Complements, Substitutes, Budget Constraints and Valuation. *Environmental and Resource Economics* 16, 51–68.
- Hailu, G., Boxall, P.C., and McFarlane, B.L. (2005). The Influence of Place Attachment on Recreation Demand. *Journal of Economic Psychology* 26, 581–598.
- Hanna, E., Victor, P., and Hanna, T. (2010). *Valuation of Ecological Goods and Services in Canada's Natural Resources Sectors* (Environment Canada).
- Harper, D.L. (2012). *Analyzing the Economic Benefit of Woodland Caribou Conservation in Alberta*. Master Thesis,. University of Alberta.
- Hauer, G., Boxall, P.C., and Adamowicz, W. (2005). *Modeling Congestion as a Form of Interdependence in Random Utility Models* (Alberta, Canada: Department of Rural Economy, University of Alberta).
- Hauser, A., and van Kooten, G.C. (1993). *Benefits of improving water quality in the Abbotsford aquifer : an application of contingent valuation methods* (Canada: Department of Agricultural Economics, University of British Columbia).
- He, J., Poder, T., Dupras, J., and Enomana, H.J. (2016). *La valeur économique de la pêche blanche et des services écosystémiques au Lac Saint-Pierre : Analyse coûts-avantages des stratégies d'adaptation aux changements climatiques* (Montréal: Publication gouvernementale).
- He, J., Dupras, J., and Poder, T.G. (2017). The value of wetlands in Quebec: a comparison between contingent valuation and choice experiment. *Journal of Environmental Economics and Policy* 6, 51–78.
- He, J., Enomana, H., Dupras, J., Kermagoret, C., and Poder, T. (2019). Measuring Recreation Benefit Loss under Climate Change with Revealed and Stated Behavior Data: The Case of Lac Saint-Pierre World Biosphere Reserve (Québec, Canada). *Environmental Management* 64, 746–756.

- He, J., Dupras, J., Ndefo, F., and Poder, T. (2020). Payment and provision consequentiality in voluntary contribution mechanism: separate or joint effects? *Letters in Spatial and Resource Sciences* 13, 11–36.
- Heintzelman, M.D., Vyn, R.J., and Guth, S. (2017). Understanding the Amenity Impacts of Wind Development on an International Border. *Ecological Economics* 137, 195–206.
- Hô, V.-M. (2008). La valeur économique de la biodiversité dans un cadre de zonage fonctionnel en aménagement forestier. Master Thesis,. Université Laval.
- Hu, W., Hünneimyer, A., Veeman, M., Adamowicz, W., and Srivastava, L. (2004). Trading off health, environmental and genetic modification attributes in food. *European Review of Agriculture Economics* 31, 389–408.
- Hu, W., Veeman, M., Adamowicz, W., and Gao, G. (2006). Consumers' Food Choices with Voluntary Access to Genetic Modification Information. *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 54, 585–604.
- Hunt, L.M., Boxall, P., Englin, J., and Haider, W. (2005). Remote tourism and forest management: a spatial hedonic analysis. *Ecological Economics* 53, 101–113.
- Hunt, L.M., Boxall, P.C., and Boots, B. (2007). Accommodating Complex Substitution Patterns in a Random Utility Model of Recreational Fishing. *Marine Resource Economics* 22, 155–172.
- Hunt, L.M., Phaneuf, D.J., Abbott, J.K., and Fenichel, E.P. (2020). Per trip changes to the economic value of Ontario, Canada anglers fishing the Laurentian Great Lakes under target species transitions. *Human Dimensions of Wildlife* 1–16.
- Hvenegaard, G.T., Butler, J.R., and Krystofiak, D.K. (1989). Economic Values of Bird Watching at Point Pelee National Park, Canada. *Wildlife Society Bulletin (1973-2006)* 17, 526–531.
- Industrial Economics Incorporated, Â.C.M.A. (2019). Application of the Economic Valuation Study Findings to Toxic Substances under the Chemicals Management Plan.
- Irwin, K.A. (2015). Valuing Improvements to the Environmental Performance of Salmon Aquaculture in British Columbia: A Choice Modelling Approach.
- Janmaat, J. (2007). A Little Knowledge...: Household Water Quality Investment in the Annapolis Valley. *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 55, 233–253.
- Jarret, L.P. (2002). Preliminary Examination of the Economic Value of the Meteorological Service of Canada's National Radar Project. thesis. Department of Engineering, University of Waterloo.
- Jay, M. (1996). The Net Benefits of Backcountry Canoeing in Ontario Wilderness Parks: The Application of Random Utility Methods to Travel Cost Analysis. Masters Thesis,. University of Guelph.
- Johnson, L.E. (1995). A Contingent Valuation and Travel Cost Model Comparison of the Net Economic Benefits of Wilderness Canoeing in Temagami.
- Johnson, F.R., Banzhaf, M.R., and Desvousges, W.H. (2000). Willingness to pay for improved respiratory and cardiovascular health: a multiple-format, stated-preference approach. *Health Economics* 9, 295–317.
- Kahneman, D., and Knetsch, J.L. (1992). Valuing public goods: The purchase of moral satisfaction. *Journal of Environmental Economics and Management* 22, 57–70.
- Kim, H.N., Boxall, P.C., and Adamowicz, W.L. (Vic) (2016a). The Demonstration and Capture of the Value of an Ecosystem Service: A Quasi-Experimental Hedonic Property Analysis. *American Journal of Agricultural Economics* 98, 819–837.
- Kim, H.N., Boxall, P.C., and Adamowicz, W.L. (Vic) (2016b). Analysis of the impact of water quality changes on residential property prices. *Water Resources and Economics* 16, 1–14.
- Kim, H.N., Boxall, P.C., and Adamowicz, W.L. (Vic) (2019). Analysis of the economic impact of water management policy on residential prices: Modifying choice set formation in a discrete house choice analysis. *Journal of Choice Modelling* 33.
- Knowler, D., Page, A., Cooper, A., and Araujo, H.A. (2017). Valuing a Logging Externality: Loss of the Water Purification Service of Temperate Coastal Rainforests. *Water Econs. Policy* 03, 1650032.
- Knowler, D.J., MacGregor, B.W., Bradford, M.J., and Peterman, R.M. (2003). Valuing freshwater salmon habitat on the west coast of Canada. *Journal of Environmental Management* 69, 261–273.
- Kooten, G.C. van, Athwal, R., and Arthur, L.M. (1998). Use of Public Perceptions of Groundwater Quality Benefits in Developing Livestock Management Options. *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 46, 273–285.
- Koto, P.S., and Yiridoe, E.K. (2019). Expected willingness to pay for wind energy in Atlantic Canada. *Energy Policy* 129, 80–88.
- Kreutzweiser, R. (1981). The Economic Significance of the Long Point Marsh, Lake Erie, as a Recreational Resource. *Journal of Great Lakes Research* 7, 105–110.
- Krupnick, A., Alberini, A., Cropper, M., Simon, N., O'Brien, B., Goeree, R., and Heintzelman, M. (2002). Age, Health and the Willingness to Pay for Mortality Risk Reductions: A Contingent Valuation Survey of Ontario Residents. *Journal of Risk and Uncertainty* 24, 161–186.
- Kulshreshtha, S.N. (1991). Estimation of Value of Water for Water-Related Recreation in Saskatchewan. *Canadian Water Resource Journal* 16, 207–222.
- Kulshreshtha, S.N. (1994). Economic value of groundwater in the Assiniboine Delta aquifer in Manitoba.
- Kulshreshtha, S.N., and Gillies, J.A. (1993a). The Economic Value of the South Saskatchewan River to the City of Saskatoon: (i) Valuation Framework and Value Estimates for Selected Uses. *Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques* 18, 199–215.

- Kulshreshtha, S.N., and Gillies, J.A. (1993b). The Economic Value of the South Saskatchewan River to the City of Saskatoon:(ii) Estimation of Recreational Use Value. *Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques* 18, 369–383.
- Kulshreshtha, S.N., and Gillies, J.A. (1993c). Economic Evaluation of Aesthetic Amenities: A Case Study of River View. *Journal of the American Water Resources Association* 29, 257–266.
- Kulshreshtha, S.N., and Gillies, J.A. (1994). The Economic Value of the South Saskatchewan River to the City of Saskatoon: (iii) Value of Alternative Minimum River Water Flow. *Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques* 19, 39–55.
- Kulshreshtha, S.N. (Surendra N., and Loewen, K.G. (1995a). Economic Aspects of Recreation Activity at the Prince Albert National Park (Canada: Prince Albert Model Forest Association Inc).
- Kulshreshtha, S.N. (Surendra N., and Loewen, K.G. (1995b). Economic Value of the Recreation Experience at the Prince Albert National Park of Saskatchewan: Value of Recreation, Contingency Valuation Method (Canada: Prince Albert Model Forest Association Inc).
- Lanoie, P., Pedro, C., and Latour, R. (1995). The value of a statistical life: A comparison of two approaches. *Journal of Risk and Uncertainty* 10, 235–257.
- Lantz, V., Boxall, P., Kennedy, M., and Wilson, J. (2010). Valuing Wetlands in Southern Ontario’s Credit River Watershed: A contingent valuation analysis (The Pembina Institute and Credit Valley Conservation).
- Lantz, V., Trenholm, R., Wilson, J., and Richards, W. (2012). Assessing market and non-market costs of freshwater flooding due to climate change in the community of Fredericton, Eastern Canada. *Climatic Change* 110, 347–372.
- Lantz, V., Boxall, P.C., Kennedy, M., and Wilson, J. (2013). The valuation of wetland conservation in an urban/peri urban watershed. *Regional Environmental Change* 13, 939–953.
- Larue, B., West, G.E., Tamini, L.D., Singbo, A., and Dangbedji, J. (2014). Willingness to pay for BMP-induced water quality benefits and deviations around expected water quality outcomes. *Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques* 39, 437–448.
- Larue, B., West, G.E., Singbo, A., and Tamini, L.D. (2017). Risk aversion and willingness to pay for water quality: The case of non-farm rural residents. *Journal of Environmental Management* 197, 296–304.
- Laub, M.E. (1971). The economic evaluation of non-marketed recreational resources. PhD Thesis. University of British Columbia.
- L’Ecuyer-Sauvageau, C., Kermagoret, C., Dupras, J., He, J., Leroux, J., Schinck, M.-P., and Poder, T.G. (2019). Understanding the preferences of water users in a context of cyanobacterial blooms in Quebec. *Journal of Environmental Management* 248, 109271.
- Leger, P.T. (2001). Willingness to Pay for Improvements in Air Quality (Montreal, Quebec: Applied Economics, École des H.E.C. and CIRANO).
- Legg, R.D. (1989). Valuing recreational fishing: an application of the hedonic travel cost method. M.A. Thesis. Department of Economics, University of Guelph.
- Legg, R.D. (1993). The Non-market Value of Recreational Fishing in Ontario: A Contingent Valuation Study (Ontario Ministry of Natural Resources, Fisheries Policy Branch).
- Lin, Z. (2019). Estimating the Willingness-to-Pay for Agri-Environmental BMP Adoption in Alberta’s South Saskatchewan Region. Master Thesis,. University of Alberta.
- Lloyd-Smith, P. (2021). The Economic Benefits of Recreation in Canada. *Canadian Journal of Economics*.
- Lloyd-Smith, P., and Becker, M. (2020). The Economic Value of Camping using Administrative Data. *Journal of Agricultural and Resource Economics* 45, 445–461.
- Lloyd-Smith, P., Schram, C., Adamowicz, W., and Dupont, D. (2018). Endogeneity of Risk Perceptions in Averting Behavior Models. *Environmental and Resource Economics* 69, 217–246.
- Lloyd-Smith, P., Adamowicz, W., and Dupont, D. (2019). Incorporating Stated Consequentiality Questions in Stated Preference Research. *Land Economics* 95, 293–306.
- Loewen, K.G., and Kulshreshtha, S.N. (1995a). Recreation and Wilderness: Participation and Economic Significance in Saskatchewan.
- Loewen, K.G., and Kulshreshtha, S.N. (Surendra N. (1995b). Economic Aspects of Wilderness Valuation and Recreation Uses by Aboriginal Households: A Case Study of Prince Albert (Canada: Department of Agricultural Economics, University of Saskatchewan).
- Loewen, K.G., and Kulshreshtha, S.N. (Surendra N. (1995c). Economic Value of the Recreation Experience at the Prince Albert National Park of Saskatchewan: Value of Recreation, Travel Cost Method (Canada: Prince Albert Model Forest Association Inc).
- Luo, Y. (2019). Comparing Willingness-to-pay and Willingness-to-accept Approaches for Valuing Farmland Protection and Conversion in Alberta. Master Thesis,. University of Alberta.
- Lyssenko, N., and Martínez-Españeira, R. (2012a). Respondent uncertainty in contingent valuation: the case of whale conservation in Newfoundland and Labrador. *Applied Economics* 44, 1911–1930.
- Lyssenko, N., and Martínez-Españeira, R. (2012b). ‘Been There Done That’: Disentangling Option Value Effects from User Heterogeneity When Valuing Natural Resources with a Use Component. *Environmental Management* 50, 819–836.

- MacAuley, Dorothy. (1992). The Economic Valuation of the Aesthetics of a Public Beach Setting. Master Thesis,. University of Alberta.
- MacDonald, D.H. (1998). Three Papers in Natural Resource Valuation: Accounting for Cross-Cultural Contexts. PhD Dissertation,. Department of Rural Economy , University of Alberta.
- MacDonald, K.A. (1999). Assessing the Consumer's Willingness to Conserve: A Case Study Application of Contingent Valuation Methodology to Municipal Water Provision in Sydney, Nova Scotia. Master Thesis,. School for Resource and Environmental Studies, Dalhousie University.
- MacDonald, H., McKenney, D.W., and Nealis, V. (1997). A Bug Is a Bug Is a Bug: Symbolic Responses to Contingent Valuation Questions about Forest Pest control programs? *Canadian Journal of Agricultural Economics/Revue Canadienne D'Agroeconomie* 45, 145–163.
- MacDonald, K., Boyce, D., Dewis, S., Hennigar, P., Percy, R., and Sawyer, D. (2000). Application of Environmental Damage Assessment and Resource Valuation Processes in the Atlantic Region. In 43 Rd Annual International Conference of the Association for Great Lakes for Great Lakes Research, (Cornwall, Ontario, Canada), p.
- MacGregor, H.G. (1998). The economic value of deer hunting and its distribution in the Fundy Model Forest, 1994.
- Maciak, R.A. (2011). Funding Water Utility System Improvements in Rural British Columbia: How Much are Residents Willing to Pay? PhD Thesis. Thompson Rivers University.
- Macnab, B., and Brusnyk, L. (1993). A Socioeconomic Assessment of the Buck For Wildlife Program. Prepared by DA Westworth and Associates Ltd. for Alberta Fish and Wildlife Services.
- Maher, S.M., Fenichel, E.P., Schmitz, O.J., and Adamowicz, W.L. (2020). The economics of conservation debt: a natural capital approach to revealed valuation of ecological dynamics. *Ecological Applications* 30.
- Martin, M., and Marceau, R. (2001). The Economic Value of Groundwater (Montreal Economic Institute).
- Martínez-Espíñeira, R. (2006). A Box-Cox Double-Hurdle model of wildlife valuation: The citizen's perspective. *Ecological Economics* 58, 192–208.
- Martínez-Espíñeira, R. (2007). 'Adopt a Hypothetical Pup': A Count Data Approach to the Valuation of Wildlife. *Environmental and Resource Economics* 37, 335–360.
- Martínez-Espíñeira, R., and Amoako-Tuffour, J. (2008). Recreation demand analysis under truncation, overdispersion, and endogenous stratification: An application to Gros Morne National Park. *Journal of Environmental Management* 88, 1320–1332.
- Martínez-Espíñeira, R., and Lyssenko, N. (2011). Correcting for the endogeneity of pro-environment behavioral choices in contingent valuation. *Ecological Economics* 70, 1435–1439.
- Martínez-Espíñeira, R., and Lyssenko, N. (2012). Alternative approaches to dealing with respondent uncertainty in contingent valuation: A comparative analysis. *Journal of Environmental Management* 93, 130–139.
- Martínez-Espíñeira, R., Perez-Urdiales, M., and Quinton, J. (2014). Modeling Scale Heterogeneity in the Estimation of the Benefits of Road Traffic Risk Reductions: The Case of Moose-Vehicle Collisions in Newfoundland. In 5th World Congress of Environmental and Resource Economists, (Istanbul, Turkey), p.
- Martínez-Espíñeira, R., Chopin, T., Robinson, S., Noce, A., Knowler, D., and Yip, W. (2015). Estimating the biomitigation benefits of Integrated Multi-Trophic Aquaculture: A contingent behavior analysis. *Aquaculture* 437, 182–194.
- Martínez-Espíñeira, R., Chopin, T., Robinson, S., Noce, A., Knowler, D., and Yip, W. (2016). A contingent valuation of the biomitigation benefits of integrated multi-trophic aquaculture in Canada. *Aquaculture Economics & Management* 20, 1–23.
- McComb, G. (2002). A contingent valuation study of Winnipeg municipal water using bounded rationality. *International Journal of Environment and Sustainable Development* 1, 234–248.
- McDaniels, T.L., and Roessler, C. (1998). Multiattribute elicitation of wilderness preservation benefits: a constructive approach. *Ecological Economics* 27, 299–312.
- McFarlane, B.L., and Boxall, P.C. (1998). An Overview and Nonmarket Valuation of Camping in the Foothills Model Forest (Northern Forestry Centre, Canadian Forest Service, Natural Resources Canada).
- McLeod, K.N. (1995). Incorporating Perceptions of Site Quality in a Discrete Choice Analysis. Master Thesis,. Department of Rural Economy. University of Alberta.
- McLeod, K., Boxall, P.C., Adamowicz, W.L., Williams, M., and Louviere, J.J. (1993). The Incorporation of Nontimber Goods and Services in Integrated Resource Management, I. An Introduction to the Alberta Moose Hunting Study Interim Project Report (University of Alberta, Department of Resource Economics and Environmental Sociology).
- McNaughton, R.B. (1994). Economic Benefits of Recreation Sites on Irrigation Reservoirs in Southern Alberta. *Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques* 19, 3–16.
- McNaughton, R.B. (1995). Economic Benefits of Sport Fishing and Hunting Near Irrigation Developments in Southern Alberta. *Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques* 20, 161–170.
- McNeill, R., and Roberge, A. (2000). The Impacts of Visual Air Quality on Tourism Revenues in Greater Vancouver and the Lower Fraser Valley (Canada).
- Meisner, C.M. (1997). The Impact of Forestry Practices on Water-Based Recreation in Northern Alberta. Masters Thesis,. Department of Rural Economy, University of Alberta.
- Meng, R. (1989). Compensating Differences in the Canadian Labour Market. *The Canadian Journal of Economics* 22, 413–424.

- Meyer, P.A. (1974). Recreational and preservation values associated with the salmon of the Fraser River (Southern Operations Branch, Pacific Region, Fisheries and Marine Service, Environment Canada).
- Meyer, P.A. (1978a). A comparison of direct questioning methods for obtaining dollar values for public recreation and preservation (Environment Canada, Fisheries and Marine Service, Southern Operations Branch).
- Meyer, P.A. (1978b). Updated Estimates for Recreation and Preservation Values Associated with the Salmon and Steelhead of the Fraser River (Habitat Protection Directorate, Pacific Region, Fisheries and Marine Service, Fisheries and Environment Canada).
- Michaud, L. (1989). The Impact of Acidification on the Economic Value of Recreational Fishing in Eastern Canada (Canada).
- Miller, R.J. (1971). Economics of Hunting and Fishing in Alberta. MSc. Thesis. Department of Rural Economy. University of Alberta.
- Mingle, J. (2017). Economic Analysis of Beneficial Management Practices in Southern Manitoba. PhD Thesis. University of Saskatchewan.
- Ministry of Agriculture and Lands, B.C. (2007). Public Amenity Benefits and Ecological Services Provided by Farmland to Local Communities in the Fraser Valley: A Case Study in Abbotsford, B.C. (Abbotsford, B.C.: Ministry of Agriculture and Lands).
- Morton, K.M., Adamowicz, W.L., and Boxall, P.C. (1995). Economic effects of environmental quality change on recreational hunting in northwestern Saskatchewan: a contingent behaviour analysis. *Canadian Journal of Forest Research* 25, 912–920.
- Muller, R.A. (1985). The Value of Water in Canada. *Canadian Water Resources Journal* 10, 12–20.
- Muller, R.A., and Diener, A.A. (1997). Economic Valuation of Air Quality in the Regional Municipality of Hamilton-Wentworth (Hamilton, Ontario, Canada: Hamilton-Wentworth Air Quality Initiative, Department of Economics, McMaster University).
- Muller, R.A., Robb, A.L., and Diener, A. (2001). Inferring Willingness-to-Pay for Health Attributes of Air Quality using Information on Ranking of Alternatives and Cognitive Ability of Respondents (Federal Reserve Bank of St Louis).
- Neupane, A., and Gustavson, K. (2008). Urban property values and contaminated sites: A hedonic analysis of Sydney, Nova Scotia. *Journal of Environmental Management* 88, 1212–1220.
- Nijhum, F., Westbrook, C., Noble, B., Belcher, K., and Lloyd-Smith, P. (2021). Evaluation of alternative land-use scenarios using an ecosystem services-based strategic environmental assessment approach. *Land Use Policy* 108, 105540.
- O’Grady, K.L. (1987). The Value of Water-Based Recreation in Saskatchewan (Saskatchewan Water Corporation).
- Olar, M. (2007). Estimation of the Economic Benefits of Marine Mammal Recovery in the St. Lawrence Estuary (Canadian Government Publishing).
- Page, A. (2010). Valuing the Water Purification/Filtration Service of Temperate Coastal Rainforests in Southwestern British Columbia. Master Thesis., Simon Fraser University.
- Pattison, W.S. (1970). Economics of Moose Hunting Activity. MSc. Thesis. Department of Rural Economy, University of Alberta.
- Pattison, J., Boxall, P.C., and Adamowicz, W.L. (2011). The Economic Benefits of Wetland Retention and Restoration in Manitoba. *Canadian Journal of Agricultural Economics/Revue Canadienne d’agroeconomie* 59, 223–244.
- Pearse, P.H. (1968). An Economic Evaluation of Non-Resident Hunting and Guiding in the East Kootenay. *Canadian Journal of Agricultural Economics/Revue Canadienne d’agroeconomie* 16, 100–111.
- Pearse, P.H., and Laub, M.E. (1969). The Value of the Kootenay Lake Sport Fishery (B.C. Ministry of Forests, Recreation Branch).
- Peters, T., Adamowicz, W.L., and Boxall, P.C. (1995a). Influence of Choice Set Considerations in Modeling the Benefits From Improved Water Quality. *Water Resources Research* 31, 1781–1787.
- Peters, T., Adamowicz, W.L., and Boxall, P.C. (1995b). A Random Utility Analysis of Southern Alberta Sportfishing (Canada: University of Alberta).
- Phillips, W.E., Haney, T.J., and Adamowicz, W.L. (1993). An Economic Analysis of Wildlife Habitat Preservation in Alberta. *Canadian Journal of Agricultural Economics/Revue Canadienne d’agroeconomie* 41, 411–418.
- Poder, T.G., and He, J. (2017). Willingness to pay for a cleaner car: The case of car pollution in Quebec and France. *Energy* 130, 48–54.
- Pothier, A.J., and Millward, A.A. (2013). Valuing trees on city-centre institutional land: an opportunity for urban forest management. *Journal of Environmental Planning and Management* 56, 1380–1402.
- Potoglou, D., and Kanaroglou, P.S. (2007). Household demand and willingness to pay for clean vehicles. *Transportation Research Part D: Transport and Environment* 12, 264–274.
- Prather, R.A. (1974). Alternative methods of estimating benefits: An economic evaluation of big game hunting in Alberta. PhD Thesis. Thesis (M. Sc.)—University of Alberta.
- Prescott, S. (2017). Analysis and Economic Valuation of Off Highway Vehicle Use in Southwestern Alberta, Canada. Master Thesis., University of Alberta.
- Price, J., Dupont, D., and Adamowicz, W. (2017). As Time Goes By: Examination of Temporal Stability Across Stated Preference Question Formats. *Environmental and Resource Economics* 68, 643–662.
- Price, J.I., Lloyd-Smith, P.R., Dupont, D.P., and Adamowicz, W.L. (2019). Floods and Water Service Disruptions: Eliciting Willingness-to-Pay for Public Utility Pricing and Infrastructure Decisions. *Water Economics and Policy* 05, 1850021.
- Purves, G.T. (1997). Economic Aspects of AES Marine Weather Services in Marine Applications: A Case Study of Atlantic Canada. Master Thesis., Dalhousie University.
- Rahman, R., Lloyd-Smith, P.R., and Vyn, R.J. (2021). The Value of Lake Water Quality to Rural Homeowners in Ontario.

- Reid, R. (1984). The Value and Characteristics of Freshwater Angling in British Columbia. Economic and Social Policy Unit.
- Reid, R. (1985). The Value and Characteristics of Resident Hunting: Results of the 1981 Provincial Survey (Vancouver, BC: Province of British Columbia. Ministry of Environment, Wildlife Branch).
- Reid, R., Stone, M., and Whitely, T. (1995). Economic value of wilderness protection and recreation in British Columbia. FRDA Working Paper (Victoria B.C.) 50.
- Reid, R., Roper, C., and Park, A. (1999). Economic value of resident hunting in British Columbia.
- Reinsborough, M.J. (2003). A Ricardian Model of Climate Change in Canada. The Canadian Journal of Economics / Revue Canadienne d'Economie 36, 21–40.
- Renzetti, S. (1992). Evaluating the welfare effects of reforming municipal water prices. Journal of Environmental Economics and Management 22, 147–163.
- Renzetti, S., and Dupont, D. (2003). The Value of Water in Manufacturing (Centre for Social and Economic Research on the Global Environment).
- Renzetti, S., and Kushner, J. (2004). Full Cost Accounting for Water Supply and Sewage Treatment: Concepts and Case Application. Canadian Water Resources Journal 29, 13–22.
- Renzetti, S., Price, J.I., Dupont, D., and Mazumder, A. (2021). Testing household preferences for the importance of the frequency and severity of water quality impairment. Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques, 1A–15.
- Reveret, J.P., Dupras, J., Charron, I., and Lucchetti, J.L. (2009). Volonte de payer de citoyens quebecois pour des biens et services ecologiques issus de changement de pratiques agricoles.
- Robbins, M., Olewiler, N., and Robinson, M. (2009). An Estimate of the Public Amenity Benefits and Ecological Goods Provided by Farmland in Metro Vancouver (Vancouver, BC: Fraser Basin Council).
- Robinson, J. (2011). Valuing Natural Capital in the Quamichan Lake Watershed. Master Thesis,. School of Public Policy, Simon Fraser University.
- Rollins, K. (1997). Wilderness Canoeing in Ontario: Using Cumulative Results to Update Dichotomous Choice Contingent Valuation Offer Amounts. Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie 45, 1–16.
- Rollins, K., and Dumitras, D.E. (2005). Estimation of Median Willingness to Pay for a System of Recreation Areas. International Review on Public and Nonprofit Marketing 2, 73–84.
- Rollins, K., and Lyke, A. (1998). The Case for Diminishing Marginal Existence Values. Journal of Environmental Economics and Management 36, 324–344.
- Rollins, K., and Wistowsky, W. (1997). Benefits of back-country canoeing in Ontario wilderness parks. Journal of Applied Recreation Research 22, 9–31.
- Rollins, K.S., and Shaykewich, J. (2003). Using willingness-to-pay to assess the economic value of weather forecasts for multiple commercial sectors. Meteorological Applications 10, 31–38.
- Rollins, K., Zachariah, O., Frehs, J., and Tate, D. (1997). Resource Valuation and Public Policy: Consumers' Willingness to Pay for Improving Water Servicing Infrastructure. Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques 22, 185–195.
- Rollins, K., Dumitras, D., and Castledine, A. (2008). An Analysis of Congestion Effects Across and Within Multiple Recreation Activities. Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie 56, 95–116.
- Rowe, R.D., Shaw, W.D., and Schulze, W. (1992). Nestucca Oil Spill. Natural Resource Damages: Law and Economics.
- Roy-Vigneault, F. (2009). Évaluation de la valeur de biens et services écologiques liés à l'agroforesterie : une approche expérimentale. Master Thesis,. Merchant logo Laval University.
- Rudd, M.A. (2009). National values for regional aquatic species at risk in Canada. Endangered Species Research 6, 239–249.
- Rudd, M.A., Andres, S., and Kilfoil, M. (2016). Non-use Economic Values for Little-Known Aquatic Species at Risk: Comparing Choice Experiment Results from Surveys Focused on Species, Guilds, and Ecosystems. Environmental Management 58, 476–490.
- RWDI Air Inc (2005). Cost Benefit Analysis: Replacing Ontario's Coal-Fired Electricity Generation (Canada: Ontario Ministry of Energy).
- Sarker, R., and Surry, Y. (1998). Economic value of big game hunting: the case of moose hunting in Ontario. Journal of Forest Economics 4, 29–60.
- Schinck, M.-P., L'Ecuyer-Sauvageau, C., Leroux, J., Kermagoret, C., and Dupras, J. (2020). Risk, Drinking Water and Harmful Algal Blooms: A Contingent Valuation of Water Bans. Water Resources Management 34, 3933–3947.
- Shantz, P., Rollins, K., Johnson, L., and Wistowsky, W. (2004). Study of the Economic and Social Benefits of the Nine Ontario Living Legacy Signature Sites (Engel Consulting Group).
- Shapansky, B., Adamowicz, W., and Boxall, P. (2002). Measuring Forest Resource Values: An Assessment of Choice Experiments and Preference Construction Methods as Public Involvement Tools (Alberta, Canada: Department of Rural Economy, University of Alberta).
- Slaney, G.L., Lantz, V.A., and MacLean, D.A. (2009). The economics of carbon sequestration through pest management: application to forested landbases in New Brunswick and Saskatchewan, Canada. Forest Policy and Economics 11, 525–534.

- Slaney, G.L., Lantz, V.A., and Maclean, D.A. (2010). Assessing costs and benefits of pest management on forested landbases in eastern and western Canada. *Journal of Forest Economics* 16, 19–34.
- Spiegel, J.M., and Krewski, D. (2002). Using Willingness to Pay to Evaluate the Implementation of Canada's Residential Radon Exposure Guideline. *Canadian Journal of Public Health / Revue Canadienne de Sante'e Publique* 93, 223–228.
- Stokoe, P., Roots, J., and Walters, B. (1989). Application of Wetland Evaluation Methodologies to the Minudie Dykelands (Nova Scotia: Sustainable Development Branch, Canadian Wildlife Service, Environment Canada, and Wildlife Habitat Canada).
- Sumaila, U.R., Pitcher, T.J., Haggan, N., and Jones, R. (2001). Evaluating the Benefits from Restored Ecosystems: A Back to the Future Approach. *International Institute of Fisheries Economics and Trade* 1–8.
- Sverrisson, D., Boxall, P.C., and Adamowicz, V. (2008). Estimation of the Passive Use Values Associated with Future Expansion of Provincial Parks and Protected Areas in Southern Ontario (Edmonton, Alberta, Canada: Department of Rural Economy, University of Alberta).
- Taccogna, G.S. (1993). The Economic Value of Recreation in the Seymour River Corridor: A Comparison of Developed and Protected River Reaches Using the Travel Cost Method. Masters thesis,. Simon Fraser University.
- Talhelm, D.R., Hanna, J.E., and Victor, P. (1987). Product travel cost approach: estimating acid rain damage to sportfishing in Ontario. *Transactions of the American Fisheries Society* 116, 420–431.
- Tanguay, M., Adamowicz, W.L., and Boxall, P. (1995). An Economic Evaluation of Woodland Caribou Conservation Programs in Northwestern Saskatchewan (Canada: Department of Rural Economy, University of Alberta).
- Thompson, J.P., Sen, A.R., and Scace, R.C. (1987a). Bow River Recreation Study: An Assessment of Recreational Use and Economic Benefits. Volume 2: River Surveys.
- Thompson, J.P., Sen, A.R., and Scace, R.C. (1987b). Bow River Recreation Study: An Assessment of Recreational Use and Economic Benefits. Volume 4: Household Survey (Alberta. Alberta Forestry, Lands and Wildlife).
- Tkac, J.M. (2002). Estimating Willingness to Pay for the Preservation of the Alfred Bog Wetland in Ontario: A Multiple Bounded Discrete Choice Approach. PhD Thesis. Department of Agricultural Economics MacDonald Campus McGill University Montreal Quebec.
- Traoré, N., Amara, N., and Landry, R. (1999). Households' Response to Groundwater Quality Degradation: Results from a Household Survey in Quebec. *Cahiers d'Economie et Sociologie Rurales* 5–22.
- Trenholm, R. (2018). Reconciling Quantitative Attributes with Different Levels When Transferring Willingness to Pay Elicited from Choice Experiments: Evidence from Benefit Transfers between Four Canadian Watersheds. PhD Dissertation,. Simon Fraser University.
- Trenholm, R., Lantz, V., Martínez-Espíñeira, R., and Little, S. (2013). Cost-benefit analysis of riparian protection in an eastern Canadian watershed. *Journal of Environmental Management* 116, 81–94.
- Truong, T., Adamowicz, W., and Boxall, P.C. (2018). Modelling the Effect of Chronic Wasting Disease on Recreational Hunting Site Choice Preferences and Choice Set Formation over Time. *Environmental and Resource Economics* 70, 271–295.
- Truong, T.D., Adamowicz, W.L. (Vic), and Boxall, P.C. (2015). Modeling non-compensatory preferences in environmental valuation. *Resource and Energy Economics* 39, 89–107.
- Usher, A.J. (1987). Ontario Lake of the Woods Fishery: Economic and Social Analysis. *Transactions of the American Fisheries Society* 116, 352–366.
- Vossler, C.A., Doyon, M., and Rondeau, D. (2012). Truth in Consequentiality: Theory and Field Evidence on Discrete Choice Experiments. *American Economic Journal: Microeconomics* 4, 145–171.
- Vossler, C.A., Bergeron, S., Doyon, M., and Rondeau, D. (2020). Revisiting the Gap Between the Willingness-to-Pay and Willingness-to-Accept for Public Goods (CIRANO).
- van Vuuren, W., and Roy, P. (1990). Social and Private Returns from Wetland Preservation. *Proceedings on the Symposium on International and Transboundary Water Resources Issues*.
- van Vuuren, W., and Roy, P. (1993). Private and social returns from wetland preservation versus those from wetland conversion to agriculture. *Ecological Economics* 8, 289–305.
- Vyn, R.J., and McCullough, R.M. (2014). The Effects of Wind Turbines on Property Values in Ontario: Does Public Perception Match Empirical Evidence? *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 62, 365–392.
- Walker, S., Colman, R., Wilson, J., Monette, A., and Harley, G. (2004). The Nova Scotia GPI Solid Waste Resource Accounts (GPI Atlantic).
- Wang, H. (2015). Examination of Agricultural Land Conservation in the Alberta Capital Region, Canada. Master Thesis,. University of Alberta.
- Wang, Y. (2010). Valuation of Irrigation Water in Southern Alberta: A Stated Preference Approach. Master Thesis,. Department of Rural Economy , University of Alberta.
- Wang, Y., Neupane, A., Vickers, A., Klavins, T., and Bewer, R. (2011). Ecosystem Services Approach Pilot on Wetlands: Economic Valuation Technical Report (Alberta, Canada: Government of Alberta).
- Wardley, I.D. (1993). The Value of an Ocean View in Oak Bay, British Columbia: A Comparison of the Hedonic Pricing and Contingent Valuation Methods for Estimating Intangibles. M.A. Thesis. Department of Economics, University of Victoria.

- Warren, S. (2012). Passenger Preferences for Whale Watching Tour Attributes and Payment for Grey Whale Habitat Protection: A Case Study in Tofino, B.C. (School of Resource and Environmental Management, Faculty of the Environment, Simon Fraser university).
- Watson, V.G. (1994). Wilderness preservation and protection of old-growth forests. University of British Columbia.
- Watson, D., Adamowicz, W.L., and Boxall, P.C. (1993). An Economic Analysis of Recreational Fishing and Environmental Quality Changes in the Upper Oldman River Basin (Canada: Department of Rural Economy, University of Alberta).
- Watson, D.O., Adamowicz, W.L., and Boxall, P.C. (1994). An Economic Analysis of Recreational Fishing and Environmental Quality Changes in the Upper Oldman River Basin. *Canadian Water Resources Journal / Revue Canadienne Des Ressources Hydriques* 19, 213–225.
- Watt, W.D. (1986). The case for liming some Nova Scotia salmon rivers. *Water, Air, and Soil Pollution* 31, 775–789.
- White, A. (1991). The Unrecognized Recreation Value of Wilderness: Defining the Future Recreation Needs of Ontarians (Toronto, Ont.: Ontario Ministry of Tourism and Recreation).
- Wilman, E.A., and Pauls, R.J. (1987). Sensitivity of Consumers' Surplus Estimates to Variation in the Parameters of the Travel Cost Model. *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 35, 197–212.
- Wilman, E.A., and Perras, J. (1987). Recreation Benefits (Alberta Lands and Forests).
- Wilman, E.A., and Perras, J. (1989). The Substitute Price Variable in the Travel Cost Equation. *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 37, 249–261.
- Wilson, R.W. (1983). An Economic Evaluation of Wildlife Resources. PhD Thesis. Department of Rural Economy, University of Alberta.
- Wilson, J.J., Lantz, V.A., and MacLean, D.A. (2010). A benefit–cost analysis of establishing protected natural areas in New Brunswick, Canada. *Forest Policy and Economics* 12, 94–103.
- Wilson, J.J., Lantz, V.A., and Maclean, D.A. (2012). The Social Benefits of Increasing Protected Natural Areas: an Eastern Canadian Case Study using the Contingent Valuation Method. *Forestry* 85, 531–538.
- Wistowsky, W.J. (1995). The Net Benefits of Backcountry Canoeing in Ontario Wilderness Parks: Results from a 1993 Contingent Valuation Survey. Master Thesis,. University of Guelph.
- Withey, P., Sullivan, D., and Lantz, V. (2019). Willingness to pay for protection from storm surge damages under climate change in Halifax Regional Municipality. *Journal of Environmental Management* 241, 44–52.
- Xuan, B., Armstrong, C., Ankamah-Yeboah, I., Hynes, S., and Simpson, K. (2021). Valuing High Seas Ecosystem Conservation. *Conservation Biology*.
- Yapo, M., He, J., Gagnon, B., Savard, L., and Leduc, R. (2015). La valeur économique pour l'amélioration de la qualité de l'eau: le cas de la rivière Magog et du lac Magog (Québec, Canada) (Canada: Departement d'Economie de l'École de gestion à l'Université de Sherbrooke).
- Yip, W., Knowler, D., and Haider, W. (2012). Valuing the Willingness-to-pay for Ecosystem Service Benefits from Integrated Multi-trophic and Closed Containment Aquaculture in British Columbia, Canada. (UK), p. 34.
- Yip, W., Knowler, D., Haider, W., and Trenholm, R. (2017). Valuing the Willingness-to-Pay for Sustainable Seafood: Integrated Multitrophic versus Closed Containment Aquaculture. *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 65, 93–117.
- Zegarac, M., and Muir, T. (1998). The Effects of RAP Related Restoration and Parkland Development on Residential Property Values: A Hamilton Harbour Case Study (Environment Canada, Ontario Region).
- Zimmer, N.M.P., Boxall, P.C., and Adamowicz, W.L. (2012). The Impacts of Chronic Wasting Disease and its Management on Recreational Hunters. *Canadian Journal of Agricultural Economics/Revue Canadienne d'agroeconomie* 60, 71–92.

Appendix B

(in figures document)

Figure B1 Annual number of active environmental valuation practitioners in Canada between 1964 and 2019. An active practitioner is defined as an author who has conducted at least 2 studies during this time period and their years of activity are defined as the years between their first and last study.