

## Appendix - Table 1

*Socio-demographic characteristics for each EFA and CFA subsample*

	EFA Sample	CFA Sample
	M (SD)	M (SD)
Age	19.80(3.24)	19.49(2.84)
	N (%)	N (%)
Gender		
Female	337 (74.72)	321 (71.18)
Male	107 (23.73)	118 (26.16)
Other	7 (1.55)	12 (2.66)
Born in Canada		
Yes	330 (73.17)	349 (77.38)
No	121 (26.83)	102 (22.62)
Childhood Residence		
City centre	109 (24.17)	103 (22.84)
Green spaces	104 (23.06)	88 (19.51)
Suburbs	158 (35.03)	168 (37.25)
Rural villages	78 (17.29)	89 (19.73)
Northern/remote	2 (0.44)	3 (0.67)
Current residence		
City centre	146 (32.37)	156 (34.59)
Green spaces	114 (25.28)	109 (24.17)
Suburbs	144 (31.93)	138 (30.60)
Rural villages	44 (9.76)	46 (10.20)
Northern/remote	3 (0.67)	2 (0.44)
Religion		
Religious	85 (18.85)	78 (17.29)
Spiritual	100 (22.17)	104 (23.06)
Both	68 (15.08)	77 (17.07)
Neither	198 (43.90)	192 (42.57)

## Appendix – Table 2

*Frequency for each climate emotion*

	Never	Sometimes	Often
	N (%)	N (%)	N (%)
Disgust	264 (29.27)	362 (40.13)	276 (30.60)
Indignation	487 (53.99)	309 (34.26)	106 (11.75)
Grief	396 (43.90)	309 (34.26)	197 (21.84)
Boredom	621 (68.85)	221 (24.50)	60 (6.65)
Hatred	470 (52.11)	255 (28.27)	177 (19.62)
Outrage	349 (38.69)	309 (34.26)	244 (27.05)
Frustration	185 (20.51)	342 (37.92)	375 (41.57)
Pride	697 (77.27)	172 (19.07)	33 (3.66)
Pity	382 (42.35)	342 (37.92)	178 (19.73)
Rage	420 (46.56)	298 (33.04)	184 (20.40)
Resentment	365 (40.47)	337 (37.36)	200 (22.17)
Disappointment	142 (15.74)	342 (37.92)	418 (46.34)
Overwhelmed	230 (25.50)	324 (35.92)	348 (38.58)
Retaliation	555 (61.53)	246 (27.27)	101 (11.20)
Distrust	371 (41.13)	325 (36.03)	206 (22.84)
Solidarity	448 (49.67)	338 (37.47)	116 (12.86)
Appreciation	552 (61.20)	257 (28.49)	93 (10.31)
Anxiety	242 (26.83)	362 (40.13)	298 (33.04)
Vengeance	613 (67.96)	211 (23.39)	78 (8.65)
Sadness	200 (22.17)	388 (43.02)	314 (34.81)
Disconnection	431 (47.78)	328 (36.36)	143 (15.85)
Engagement	403 (44.68)	370 (41.02)	129 (14.30)
Isolation	537 (59.53)	249 (27.61)	116 (12.86)
Loneliness	558 (61.86)	242 (26.83)	102 (11.31)
Distress	308 (34.15)	352 (39.02)	242 (26.83)
Devotion	472 (52.33)	324 (35.92)	106 (11.75)
Compassion	320 (35.48)	359 (39.80)	223 (24.72)
Desperation	375 (41.57)	320 (35.48)	207 (22.95)
Gratification	625 (69.29)	235 (26.05)	42 (4.66)
Enthusiasm	528 (58.54)	291 (32.26)	83 (9.20)

Happiness	675 (74.83)	183 (20.29)	44 (4.88)
Disapproval	312 (34.59)	358 (39.69)	232 (25.72)
Fear	206 (22.84)	366 (40.58)	330 (36.59)
Optimism	315 (34.92)	466 (51.66)	121 (13.41)
Helplessness	189 (20.95)	375 (41.57)	338 (37.47)
Irritation	268 (29.71)	360 (39.91)	274 (30.38)
Melancholy	441 (48.89)	316 (35.03)	145 (16.08)
Interest	190 (21.06)	438 (48.56)	274 (30.38)
Motivation	332 (36.81)	424 (47.01)	146 (16.19)
Anger	290 (32.15)	338 (37.47)	274 (30.38)
Hope	213 (23.61)	494 (54.77)	195 (21.62)
Guilt	241 (26.72)	392 (43.46)	269 (29.82)
Shame	271 (30.04)	380 (42.13)	251 (27.83)
Courage	500 (55.43)	310 (34.37)	92 (10.20)
Indifference	503 (55.76)	311 (34.48)	88 (9.76)

### Appendix - Table 3

*Exploratory Factor Analysis factor loadings*

Items	Unpleasant internalizing	Unpleasant externalizing	Pleasant	Neutral
Grief	<b>0.39</b>	0.37	0.11	0.13
Pity	<b>0.45</b>	0.16	0.13	0.25
Resentment	<b>0.41</b>	0.40	0.07	0.14
Disappointment	<b>0.50</b>	0.31	0.11	-0.26
Overwhelmed	<b>0.71</b>	0.08	0.10	-0.11
Anxiety	<b>0.79</b>	0.05	0.00	0.02
Sadness	<b>0.54</b>	0.29	0.13	-0.1
Distress	<b>0.50</b>	0.38	0.04	0.03
Desperation	<b>0.66</b>	0.10	0.19	0.06
Disapproval	<b>0.44</b>	0.30	0.05	-0.01
Fear	<b>0.85</b>	-0.01	-0.03	-0.05
Helplessness	<b>0.73</b>	0.08	-0.15	0.02
Melancholy	<b>0.53</b>	0.18	0.06	0.22
Guilt	<b>0.67</b>	0.02	0.17	-0.01
Shame	<b>0.47</b>	0.22	0.12	0.03
Disgust	0.35	<b>0.49</b>	0.03	-0.02
Indignation	0.21	<b>0.31</b>	0.31	0.23
Hatred	0.07	<b>0.78</b>	-0.06	0.19
Outrage	0.14	<b>0.72</b>	0.02	-0.12
Frustration	0.31	<b>0.57</b>	0.08	-0.30
Rage	0.11	<b>0.72</b>	0.05	0.11
Retaliation	-0.03	<b>0.57</b>	0.19	0.29
Distrust	0.29	<b>0.52</b>	0.01	0.12
Vengeance	0.02	<b>0.57</b>	0.09	0.45
Irritation	0.13	<b>0.66</b>	0.08	-0.06
Anger	0.16	<b>0.71</b>	0.05	-0.11
Pride	-0.17	0.13	<b>0.57</b>	0.51
Solidarity	0.17	0.28	<b>0.40</b>	0.13
Appreciation	0.06	-0.15	<b>0.59</b>	0.29
Engagement	0.15	0.16	<b>0.57</b>	0.01
Devotion	0.05	0.38	<b>0.56</b>	0.06
Compassion	0.28	0.08	<b>0.56</b>	-0.04
Gratification	0.05	-0.05	<b>0.57</b>	0.48
Enthusiasm	0.07	-0.07	<b>0.79</b>	0.19
Happiness	-0.09	-0.06	<b>0.64</b>	0.44
Optimism	-0.11	0.07	<b>0.85</b>	-0.21
Interest	0.24	0.21	<b>0.54</b>	-0.20
Motivation	0.02	0.16	<b>0.79</b>	-0.16
Hope	0.21	-0.23	<b>0.76</b>	-0.12

Courage	0.02	0.10	<b>0.74</b>	0.10
Boredom	-0.18	0.22	0.09	<b>0.69</b>
Disconnection	0.47	0.08	-0.06	<b>0.50</b>
Isolation	0.23	0.41	0.02	<b>0.52</b>
Loneliness	0.19	0.35	0.09	<b>0.45</b>
Indifference	0.07	-0.07	0.05	<b>0.61</b>
<b>Eigenvalues</b>	21.44	5.25	2.53	1.04
<b>Variance explained (%)</b>	20.1	18.5	16.7	8.6
<b>Cronbach's alpha</b>	0.93	0.91	0.91	0.75

## Appendix – Table 4

Results of Models 1 and 2 for engagement in pro-environmental behaviour. Standard errors are shown in parentheses.

	<b>Model 1</b>	<b>Model 2</b>
Intercept	-0.16 (0.08) *	-0.40 (0.08) *
<i>Age</i>	-0.00 (0.01)	-0.01 (0.01)
<i>Gender</i>		
Male	-0.17 (0.08) *	-0.04 (0.07)
Other	-0.06 (0.23)	-0.20 (0.21)
<i>Born outside of Canada</i>	0.12 (0.09)	0.15 (0.08) *
<i>Religion</i>		
Religious	0.04 (0.10)	0.07 (0.09)
Spiritual	0.17 (0.09)	0.09 (0.08)
Both	0.18 (0.10)	0.12 (0.09)
<i>Childhood environment</i>		
City centre	-0.06 (0.11)	-0.06 (0.09)
Greenspace	0.04 (0.11)	0.03 (0.09)
Rural village	0.16 (0.11)	0.07 (0.10)
Remote	-0.05 (0.49)	0.15 (0.43)
<i>Current environment</i>		
City centre	0.14 (0.10)	0.11 (0.09)
Greenspace	0.19 (0.10)	0.20 (0.09) *
Rural village	-0.15 (0.14)	-0.01 (0.12)
Remote	-0.63 (0.50)	-0.48 (0.44)
<i>Affect</i>		
Negative affect	0.05 (0.05)	-0.04 (0.05)
Positive affect	-0.13 (0.04) *	-0.11 (0.04) *
<i>Depression</i>	0.07 (0.06)	0.08 (0.05)
<i>Anxiety</i>	0.01 (0.04)	-0.04 (0.04)
<i>Climate anxiety scale</i>		
Functional-impairment		0.17 (0.04) *
Cognitive-impairment		0.08 (0.04)
<i>Climate worry</i>		0.21 (0.04) *
<i>Climate concern</i>		
Not at all concerned		-0.22 (0.18)
Very concerned		0.45 (0.07) *
Extremely concerned		0.65 (0.10) *

## Appendix – Table 5

Results of Models 1 and 2 for participation in environmental activism. Standard errors are shown in parentheses.

	<b>Model 1</b>	<b>Model 2</b>
Intercept	-0.09 (0.08)	-0.16 (0.07) *
<i>Age</i>	0.001 (0.01)	-0.01 (0.01)
<i>Gender</i>		
Male	-0.15 (0.08)	-0.12 (0.06)
Other	-0.08 (0.23)	-0.14 (0.19)
<i>Born outside of Canada</i>	0.18 (0.08) *	0.05 (0.07)
<i>Religion</i>		
Religious	0.20 (0.09) *	0.09 (0.08)
Spiritual	0.14 (0.09)	0.06 (0.07)
Both	0.25 (0.10) *	0.12 (0.08)
<i>Childhood environment</i>		
City centre	0.09 (0.11)	0.07 (0.09)
Greenspace	0.10 (0.10)	0.07 (0.09)
Rural village	0.07 (0.11)	-0.02 (0.09)
Remote	-0.57 (0.48)	-0.30 (0.39)
<i>Current environment</i>		
City centre	-0.08 (0.10)	-0.08 (0.08)
Greenspace	-0.09 (0.10)	-0.004 (0.08)
Rural village	-0.25 (0.14)	-0.07 (0.11)
Remote	-0.57 (0.49)	-0.29 (0.39)
<i>Affect</i>		
Negative affect	0.23 (0.05) *	0.07 (0.04)
Positive affect	-0.14 (0.04) *	-0.11 (0.03) *
<i>Depression</i>	0.05 (0.06)	0.06 (0.04)
<i>Anxiety</i>	-0.09 (0.04) *	-0.08 (0.03) *
<i>Climate anxiety scale</i>		
Functional-impairment		0.35 (0.04) *
Cognitive-impairment		0.22 (0.04) *
<i>Climate worry</i>		0.00 (0.03)
<i>Climate concern</i>		
Not at all concerned		-0.05 (0.16)
Very concerned		0.25 (0.06) *
Extremely concerned		0.47 (0.09) *

## Appendix – Table 6

Results of Models 1 and 2 for leadership in environmental activism. Standard errors are shown in parentheses.

	<b>Model 1</b>	<b>Model 2</b>
Intercept	-0.05 (0.08)	0.10 (0.07)
<i>Age</i>	-0.00 (0.01)	-0.02 (0.01)
<i>Gender</i>		
Male	-0.02 (0.08)	-0.06 (0.06)
Other	-0.18 (0.23)	-0.18 (0.18)
<i>Born outside of Canada</i>	0.34 (0.08) *	0.12 (0.07)
<i>Religion</i>		
Religious	0.19 (0.09) *	0.00 (0.08)
Spiritual	0.03 (0.09)	-0.03 (0.07)
Both	0.05 (0.10)	-0.11 (0.08)
<i>Childhood environment</i>		
City centre	0.08 (0.11)	0.05 (0.08)
Greenspace	0.12 (0.10)	0.06 (0.08)
Rural village	0.02 (0.11)	-0.03 (0.09)
Remote	-0.24 (0.48)	0.03 (0.38)
<i>Current environment</i>		
City centre	-0.10 (0.10)	-0.07 (0.08)
Greenspace	-0.22 (0.10) *	-0.09 (0.08)
Rural village	-0.23 (0.14)	-0.06 (0.11)
Remote	-0.89 (0.49)	-0.64 (0.39)
<i>Affect</i>		
Negative affect	0.23 (0.05) *	0.05 (0.04)
Positive affect	-0.08 (0.04)	-0.06 (0.03)
<i>Depression</i>	0.02 (0.06)	0.03 (0.04)
<i>Anxiety</i>	-0.12 (0.04) *	-0.07 (0.03) *
<i>Climate anxiety scale</i>		
Functional-impairment		0.33 (0.04) *
Cognitive-impairment		0.32 (0.04) *
<i>Climate worry</i>		-0.12 (0.03) *
<i>Climate concern</i>		
Not at all concerned		-0.21 (0.16)
Very concerned		-0.02 (0.06)
Extremely concerned		-0.06 (0.08)