Differences in urban and rural environmental values and behaviour

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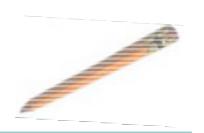
• • Origins

- Related to the urban/rural theme of NRE²
- Interested in place of residence, place of socialization with respect to values and behaviour
- Follows fairly lengthy tradition of environmental attitudes and values research.
- NEP of Dunlap and van Liere, Schwartz, Dietz, Stern's environmental values scale





• • Key Questions



- Are there real differences between urban and rural environmental values and attitudes?
- Are there real differences between urban and rural environmental behaviours?
- Does place of socialization matter more than place of current residence for values, attitudes and behaviours?





Methodological innovation #1



- Past research of this sort has chosen behaviours that have an urban bias
 - Do you recycle?
 - Do you use public transportation?
 - Are you a member of an environmental organization?
 - Hunting or fishing clubs may not be conceived this way.
 - Findings are generally that male, white, highly educated and urban respondents exhibit more pro-environmental behaviour
- Our survey instrument attempts to "level the playing field".
 - I interviewed site people at St. Damase
 - "What pro-environment or conservation activities do you or your neighbours engage in?"
 - Do you have a garden?
 - Do you compost?
 - Do you plant trees?
 - Conserve water?
 - Habitat restoration?





Methodological Innovation #2



- We are asking people where they grew up, where they spent most of their adult life, and where the currently reside.
- Categories are
 - Remote
 - Rural
 - Metro Adjacent
 - Urban
- Place of socialization matters
- It is all about identity and perception of rural.
 - For current residences, we can check against census categories and respondents' reporting.









- Even with a level playing field, rural people will express a higher level of pro-environmental attitudes and behaviours
- Place of socialization will have a greater impact on attitudes and behaviour than place of current residence.





Methodology ...sampling design

o Sample size (683):

n=
$$\frac{(N)(p)(1-p)}{(N-1)(e/Z)^2 + (p)(1-p)}$$

n=sample size needed N=Canada's population p=proportion of urban e=sampling error (3%) Z=Z-stat with 95% CI

- Response rate at 30%
- 2277 surveys sent to Urban and Rural
- Stratified random sample
- SM Research Inc.





Methodology ...the survey

- Bilingual, 19 questions, 4 sections:
 - PEB:
 - 5 types -energy use, consumer activities, reuse and recycle, restoration, and activism
 - Available infrastructure
 - Values and Attitudes
 - Personal Evaluation and Comparison: personal priority, restrictions, Canadian comparison
 - Demographics: age, gender, education, residence (past and present), and income





Analysis #1 ...gamma test diagram

Current Residence

Rural Urban

Past Residence

	Low PEB	High PEB
Rural		
Urban		

	Low PEB	High PEB
Rural		
Urban		





...statistical analysis #1 Hypotheses

- Significant, <u>positive</u> relationships will exist for
 - Urban_{past}/Urban_{current} and PEB*
 - Urban_{past}/Rural_{current} and PEB
- Significant, <u>negative</u> relationships will exist for
 - Rural_{past}/Rural_{current} and PEB
 - Rural_{past}/Urban_{current} and PEB





Resulting publications

- The impact of socialization and current residence on Canadian proenvironmental behaviour
- 2. The structure of Canadian proenvironmental behaviour: testing a cognitive hierarchy model
- Non-technical submission to Canadian Press and/or Canadian weekly magazine





• • Questions...





