Property Law Culture: Public Law, Private Preferences and the Psychology of Expropriation

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Scholars divide into two main camps in the debate on the role of law in shaping the decisions of individuals. Rational choice scholars argue that individual preferences are exogenous to law, so law can be used instrumentally; realist and socio-legal scholars argue that law is culturally contingent and must be understood in its broader context. Recent work in the theory of reference-dependent preferences may help unite the two schools by suggesting that while social context helps us understand law’s operation, law can also determine that context and culture. This would complicate the relationship of law to individual decisions.

This paper provides empirical evidence to help determine whether law acts as a reference point, by looking to a major difference in the level of property protection provided by the constitutions of Canada and the United States. Unlike Americans, Canadians do not enjoy constitutional protection against the expropriation of private property. Except where there are statutory restrictions, Canadian governments can expropriate land without compensating the property owner. Therefore, according to reference point theory, attitudes towards expropriation should differ between Americans and Canadians.

The author administered a survey to a group of Canadian students, asking them to describe their financial and attitudinal responses to hypothetical scenarios involving government expropriation of their property. The results were then compared to those of a similar, earlier study in the US. If constitutions have expressive power and can act as reference points for shaping individual preferences and culture, we would expect to see a difference in the responses to the two studies. Surprisingly, no such difference was found. Attitudes among Canadian respondents were largely similar to those in the American study. These results challenge the widespread assumption that Americans are more attached to private property than Canadians.

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Introduction

Scholars are divided on the role that law plays in shaping the decisions of individuals. For more formalist legal scholars and scholars in the rational choice school of law and economics, the preferences of individuals are assumed to be exogenous to the law. Law can be turned to instrumental purposes and the incentive effects of the law can be quite readily determined. By contrast, scholars working in legal realist and socio-legal traditions generally see the law as more culturally contingent and hence less exogenous or deterministic in its form and effects. For these scholars, the influence of the law can only be understood by examining law in its broader context, attending closely to extra-legal influences on the actors involved.

Recent work by economists potentially spans these divides by arguing that individual preferences depend on reference points. This research suggests that while culture and context may be important to understanding how law operates and hence to determining its welfare effects, law may also operate to determine social culture and context through its influence on the construction of individual preferences and social norms, and hence on individual and collective choices. If this reciprocity exists, it would substantially complicate the analysis of the potential impact of legal rules. Law may be more powerful than supposed by legal realists and some socio-legal scholars, and less direct in its effects than generally assumed by formalists and traditional rational choice theorists. To try to assess
how accurately these competing views of the law reflect reality, empirical work is needed.

It is something of a commonplace among legal scholars that constitutional rules are declarative of the fundamental values of a society. The rules, then, may be a strong candidate for inclusion among the type of law that we would expect to operate as reference points for shaping individual preferences. The design for this study exploits a major difference between the Canadian and American constitutions. It uses a prior, published study by Janice Nadler and Shari Seidman Diamond (N & SD), set in the United States, as an opportunity to provide empirical evidence on the impact of such constitutional differences on individual preferences.¹ In the US, the Constitution protects private property and prevents government from expropriating it except for “public use” and only when “just compensation” has been paid.² Canada lacks a constitutional constraint on government expropriation of property and there is no constitutional requirement to pay compensation. The study generates evidence on Canadian responses to a proposed government expropriation of property and compares them with American responses. While this does not allow us to determine whether there is a causal relationship between law and individual preferences and attitudes, we can assess whether the evidence generated is consistent with a significant link between formal constitutional rights and the psychology of individual and social responses. If formal constitutional rights were an important reference point for individuals, we would expect to see a difference in the attitudes and responses of Canadians and Americans regarding government expropriation of their property. The evidence will be helpful in understanding the nature of constitutional rules and their relationship to individual preferences and culture.³

The specific method I adopt in this paper is to administer a questionnaire mirroring the questions asked by N & SD in their study of attitudes toward expropriation in the US. This approach generates empirical evidence that allows us to begin to probe the attitude of Canadian respondents to

2.  US Const amend V.
3.  The meaning of culture is highly contested. Here I am assuming that it reflects prevailing attitudes.
expropriation, and also allows for comparison between the results of the Canadian and American surveys. Both the N & SD study and mine focus on eliciting financial and attitudinal responses to government demands to take real property. Participants’ opinions were solicited after exposure to a short hypothetical vignette. The survey vignettes differ with respect to how long the owner had been on the land in question (the Term variable), and with respect to the use the government was proposing for the land (the Use variable). The survey solicited information from each respondent on the compensation she would require, as an owner of the property, to agree to move voluntarily (Compensation Incentive), as well as her attitude toward the requirement to move and toward the appropriateness of the government action.

The results were generated by ordered logit regression of the Compensation Incentive on the Term and Use variables, along with a series of controls. In addition, the distribution of the attitudinal measures was analyzed to investigate variation in response to the Term and Use variables. Results were generated for the Canadian survey response data, and were then compared to the results generated from N & SD’s American data.

The results are somewhat surprising. Despite the stark difference in the constitutional treatment of property rights in the two countries, the data indicates that the attitudes of Canadians and Americans are very similar. While some of the results may be consistent with the law playing a role in shaping individual attitudes and preferences, the role appears to be only secondary. If law operates as a reference point for individual preferences, the results suggest we must look beyond the mere existence of “first order” differences in constitutional structure to discover the nature of this effect.

I. Law, Culture and Private Preferences

Understanding how law operates to produce its effects in the “real world” is a difficult and highly contested enterprise. For many scholars, particularly those who work in the rational choice framework of law

4. The Term on Land variable can take one of two values: a short term of two years, or a long term of 100 years. The Use variable can take one of three possibilities: a hospital, a shopping mall or an unspecified future use.
and economics, the preferences of individuals are treated as “given”, or invariant to the law. These scholars focus on assessing the impact of law through its incentive effects, primarily operative through impacts on an individual’s income or wealth. This approach has been criticized as being too parsimonious toward individual preferences and choices, abstracting away from important contextual and cultural drivers of behaviour and painting too simplistic a picture of the law’s effects and instrumental potential. At the extreme, this critique of the rational choice framework suggests that the influence of law can only be understood by fully situating it within the relevant social and cultural context. When taking this broader context into account, law is arguably often a less instrumentally powerful influence on individual behaviour.

As stated above, recent work in economics provides a possible bridge between these divergent approaches. In a move that brings them closer to socio-legal scholars, economists are recognizing that “culture” and non-market institutions are vital to understanding how individuals make


6. This point has been made by various scholars, including those working in socio-legal traditions, critiquing law and economics scholarship. See e.g. Ravi Kanbur & Annelise Riles, “Commentary 6: And Never the Twain Shall Meet? An Exchange on the Strengths and Weaknesses of Anthropology and Economics in Analyzing the Commons” in Pranab Bardhan & Isha Ray, eds, The Contested Commons: Conversations between Economists and Anthropologists (Malden, Mass: Blackwell, 2008) 266. Scholars operating more within the law and economics tradition have made the point as well. See e.g. Robert C Ellickson, Order Without Law: How Neighbours Settle Disputes (Cambridge, Mass: Harvard University Press, 1991) [Ellickson, Order Without Law]; Elinor Ostrum, Governing the Commons (Cambridge, UK: Cambridge University Press, 1990) (concerning the role of social norms on individual behaviour and the relevance of institutions to individual choice). For the works of “new norms” scholars, see e.g. Robert Cooter et al, discussed in Robert C Ellickson, “Law and Economics Discovers Social Norms” (1998) 27:2 J Legal Stud 537.

7. This is only a subset of the potential modifiers for relevant context. Factors such as historical and economic context would also be relevant to understanding how law functions. The importance of context in fully understanding law is a prominent issue in debates about the appropriate approach to comparative law. See e.g. William P Alford, “On the Limits of ‘Grand Theory’ in Comparative Law” (1986) 61:3 Wash L Rev 945; John C Reitz, “How to Do Comparative Law” (1998) 46:4 Am J Comp L 617.
choices both individually and collectively. In response, scholars have begun to model individual preferences in ways that are contextually dependent.

One strand of literature links the preferences and choices of individuals to their perception of how others will interpret their behaviour. According to this literature, law can play an important role by signalling or declaring norms of appropriate behaviour. As a social institution, law can operate to declare a society’s fundamental shared values, which feed into individual preferences. In this way, law can help shape individual preferences and influence the choices individuals make. Law’s power and effects are felt not only directly through financial incentives, but also through law’s reflection of social norms and values.

Another recent line of literature draws on Kahneman and Tversky’s prospect theory to propose that individual preferences are contingent on

8. See e.g. Karla Hoff & Joseph E Stiglitz, “Equilibrium Fictions: A Cognitive Approach to Societal Rigidity” (2010) 100:2 Am Econ Rev 141. In this paper, the authors treat culture, modeled as ideologies/belief systems, as a state variable, and emphasize the importance of socially constructed context to perceptions, beliefs and behaviour of individuals. A question the authors do not really interrogate in this paper is the role of law in constructing and influencing these cultural state variables.

9. See e.g. George A Akerlof & Rachel E Kranton, “Economics and Identity” (2000) 115:3 The Quarterly Journal of Economics 715 (individual preferences constructed in terms of identity, actions consistent with identity can enhance utility, social norms/law play role in definition of identities, coding of actions); Eric Posner, Law and Social Norms (Cambridge, Mass: Harvard University Press, 2000) (not via preferences directly, but social norms operative in signaling role, determining actions in cooperative games); John A List, “Social Preferences: Some Thoughts from the Field” (2009) 1:1 Annual Review of Economics 563 at 565 (individual preferences as a function of monetary calculations and other factors, including moral/ethical considerations that are shaped by the strength of social norms or legal rules that govern behaviour in a particular society); Ernst Fehr & Armin Falk, “Psychological Foundations of Incentives” (2002) 46:4 EER 687 at 705–08 (discussing the role of social norms and approval on individual preferences and choices, the role of law in influencing individual beliefs about social values, and how the expressive function of law feeds into individual choice); Oren Bar-Gill & Chaim Fershtman, “Law and Preferences” (2004) 20:2 JL Econ & Org 331 (law influences incentives and also through evolutionary channels influences profile of preferences in society).

10. In this literature, individuals still generally exhibit preferences consistent with standard rational choice theory, albeit a slightly more complex version.
the reference point from which individuals begin to assess their choices.\footnote{The earliest exposition of this model of preferences is developed in Amos Tversky & Daniel Kahneman, “Loss Aversion in Riskless Choice: A Reference-Dependent Model” (1991) 106:4 The Quarterly Journal of Economics 1039. For more recent versions of reference-dependent preference theory, see e.g. Botond Köszegi & Matthew Rabin, “A Model of Reference-Dependent Preferences” (2006) 121:4 The Quarterly Journal of Economics 1133; Robert Sugden, “Reference-Dependent Subjective Expected Utility” (2003) 111:2 Journal of Economic Theory 172.} According to this theory, individuals lose more utility from a particular action when it is framed as a loss relative to their reference point than they gain from the same action when it is framed as a gain relative to their reference. This “framing” effect, initiated through setting the reference point, becomes critical to understanding individual preferences and choices. Individuals’ assessments of outcomes, and their notions of fairness and tolerance for behaviour, are fundamentally driven by comparisons with a relevant benchmark.\footnote{See e.g. Daniel Kahneman, Jack L. Knetsch & Richard Thaler, “Fairness as a Constraint on Profit Seeking: Entitlements in the Market” (1986) 76:4 Am Econ Rev 728. In this paper, the authors demonstrated that individuals held certain expectations about what it was “fair” for firms to do (e.g., regarding changing prices, wages and employment). Firms were expected to (and did) adhere to these norms, deviating from standard predictions.} A growing body of empirical work provides support for reference-dependent preferences and the role of framing effects.\footnote{See Amos Tversky & Daniel Kahneman, “The Framing of Decisions and the Psychology of Choice” (1981) 211:4481 Science 453; Ian Bateman et al, “A Test of the Theory of Reference-Dependent Preferences” (1997) 112:2 The Quarterly Journal of Economics 479; Ernst Fehr & Lorenz Goette, “Do Workers Work More if Wages Are High? Evidence from a Randomized Field Experiment” (2007) 97:1 Am Econ Rev 298; Christian Grund & Dirk Sliwka, “Reference-Dependent Preferences and the Impact of Wage Increases on Job Satisfaction: Theory and Evidence” (2007) 163:2 Journal of Institutional and Theoretical Economics 313; Peter R Locke & Steven C Mann, “Daily Income Target Effects: Evidence from a Large Sample of Professional Commodities Traders” (2009) 12:4 Journal of Financial Markets 814. In these papers labour markets often provide support for theories of reference-dependent preferences. But see Henry S Farber, “Reference-Dependent Preferences and Labor Supply: The Case of New York City Taxi Drivers” (2008) 98:3 Am Econ Rev 1069 (empirical research questioning the role of reference-dependent preferences).} In this model of preferences, the initial reference point or frame plays an important role in determining the structure of individual choice.

Despite the importance of reference points in this theory of individual choice, it is unclear exactly how they are established. Possible choices can...
include the status quo, “what is normal”, “any stable state of affairs”\textsuperscript{14} or the individual’s expectations (rational or not) about what is likely to happen.\textsuperscript{15}

Recent work suggests that law itself can serve as an important reference point. Falk, Fehr & Zehnder, for example, used laboratory experiments to determine that a minimum wage law served as an important benchmark of “fair” wages.\textsuperscript{16} They observed that “public policies are likely to affect behavior not only through changing incentives but also by shaping perceptions of entitlements”.\textsuperscript{17} The impact of laws may be felt both in their direct application and more diffusely through their influence on individuals’ perceptions and beliefs. Other scholars have suggested that legal entitlements under contract may serve as a benchmark for individuals’ expectations and assessments of fairness.\textsuperscript{18}

If law serves as a reference point for framing individual preferences and choices, then law could play an important role in creating culture, as reflected in the prevailing attitudes of individuals. The claim that situating law within culture is critical to understanding law’s effects is weakened, or substantially complicated, if law itself can serve as an important determinant of culture. While debates over the role of law in shaping culture are not new, the recent developments in the theory of individual preferences offer a more precise and potentially testable hypothesis about that role.

Both strands of scholarship on contextualizing individual preferences suggest that law can have powerful effects, influencing individuals directly through standard incentive effects and indirectly through the construction and transmission of information on social values. However, the extent to

\begin{itemize}
\item \textsuperscript{14} Kahnemann, Knetsch & Thaler, \textit{supra} note 12 at 730.
\item \textsuperscript{15} See Köszegi & Rabin, \textit{supra} note 11 at 1141 (their model relies on an individual’s probabilistic beliefs held in the recent past about outcomes, as distinct from simple use of the status quo).
\item \textsuperscript{16} Armin Falk, Ernst Fehr & Christian Zehnder, “Fairness Perceptions and Reservation Wages: The Behavioral Effects of Minimum Wage Laws” (2006) 121:4 The Quarterly Journal of Economics 1347 at 1348–49. The minimum wage law, through this channel, appeared to generate spillover effects—helping to explain “puzzles” as to why employers would pay higher wages than required even when the law was not applicable or the minimum wage was reduced or removed.
\item \textsuperscript{17} \textit{Ibid} at 1351.
\end{itemize}
which law truly reflects the relevant social influences is an open empirical question. Do individuals look to the law to define the reference norms that feed into their more contextual preferences and choices? Although some empirical work suggests that law can operate as an important reference point and have an important influence on individuals’ attitudes,\(^\text{19}\) other research suggests that it has a more limited role.\(^\text{20}\)

The use of constitutional rules to protect property rights may operate as a reference point for individual preferences in the way that Falk, Fehr & Zehnder argue that minimum wage laws influence individual preferences. The model of reference-dependent preferences helps to provide a more precise way of thinking about the declarative or expressive role often ascribed to constitutional rules.\(^\text{21}\) It suggests that constitutional rules will operate as broader norms, with an influence on public perceptions and on government that goes beyond their strict impact as legal rules. While Falk, Fehr & Zehnder’s work suggests that any legal rule might have such a “baseline” effect, the constitutional status of a rule should in itself make the rule a more potent normative touchstone. The fundamental, entrenched nature of constitutional rules should also contribute to reasonable expectations that they will be adhered to—at least in terms of recent articulations of the rules.

The model of reference-dependent preferences suggests that by serving as a common reference point, the existence of a constitutional right not

\(^\text{19}\) For work supporting the role of law as reference point, see Falk, Fehr & Zehnder, \textit{supra} note 16. See also Rafael De Tella, Sebastian Galiani & Ernesto Schargrodsky, “The Formation of Beliefs: Evidence from the Allocation of Land Title to Squatters” (2007) 122:1 The Quarterly Journal of Economics 209 (finding that conferral of title to property occupied by squatters led to changes in attitudes, tilting toward more materialist and individualist beliefs). For evidence that the form in which property entitlement was presented linked to individual attitudes about limitations on property, see Jonathan Remy Nash, “Framing Effects and Regulatory Choice” (2006) 82:1 Notre Dame L Rev 313.

\(^\text{20}\) For empirical work pointing to a more limited role for law, see e.g. Ellickson, \textit{Order Without Law}, \textit{supra} note 6 (testing Coase’s theory that individuals bargain around legal entitlements to allocate access to resources). He found in his study of Shasta County that the law played a limited role in settling disputes, and that individuals instead had recourse to more particular social norms.

only reflects, but also helps to shape the way individuals assess government limitations on property. In other words, a constitutional right may help to generate the individual attitudes that collectively shape the social and cultural context within which the law is situated. The new work on contextual preferences suggests a significant autonomous impact for constitutional law. Can we find evidence of variation in attitudes that is consistent with the hypothesis that constitutional law plays an important role in shaping individuals’ perceptions and judgments?

II. The Comparative Law of Expropriation

Examining attitudes toward the expropriation of property in Canada and the US provides a natural setting to look for evidence of the impact of constitutional rules. There is a significant difference in the symbolic and declarative aspects of the legal treatment of property in the two countries. The constitutional protection of property has a long and storied history in the US, but a right to property was deliberately excluded from the Canadian Charter of Rights and Freedoms.\(^22\) If law operates as a reference point or signal for social values, then we would expect a divergence at this level to be reflected in an individual’s basic attitudes.

In the United States, property rights receive constitutional protection under both the Fifth Amendment takings clause and the due process provisions of the Fifth and Fourteenth Amendments.\(^23\) Most potentially relevant to individual attitudes toward expropriation and compensation is the Fifth Amendment, which limits the range of purposes for which property can be taken and imposes a requirement for compensation. It provides a legal touchstone for the key elements of takings liability that applies to government actors at both the federal and state level.\(^24\)

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\(^{22}\) Part I of the Constitution Act, 1982, being Schedule B to the Canada Act 1982 (UK), 1982, c 11.
\(^{23}\) The Fifth Amendment takings clause provides: “nor shall private property be taken for public use, without just compensation”. Supra note 2. The Fourteenth Amendment provides: “nor shall any state deprive any person of life, liberty, or property, without due process of law”. US Const amend XIV, § 1.
\(^{24}\) Takings liability is imposed on the states via incorporation through the Fourteenth Amendment. See Chicago, Burlington and Quincy Railroad Company v Chicago, 166 US 226 (1897).
Legal scholars have criticized the US Supreme Court’s inconsistent treatment of the Constitution’s limits on government’s ability to “take” property. Much of this uncertainty surrounds the extension of the clause to “regulatory takings” rather than direct expropriation of property. However, the Supreme Court has consistently interpreted the clause to potentially require compensation for even these indirect regulatory encroachments on real property. The clause has also been invoked to guard against even trivial or indirect physical encroachments on real property. In contrast, the US Supreme Court has been relatively forgiving in its scrutiny of the substantive limitation on government’s power to take property only for “public use.” Despite this legal ambiguity, the American constitutional right still seems to play a role in influencing individual expectations about government powers. Specifically, the right potentially helps to support an expectation that private property will be interfered with by government only in limited circumstances and will be


27. See Loretto v Teleprompter Manhattan CATV Corp et al, 458 US 419 (1982) (installation of cable equipment on an apartment roof is compensable as a per se encroachment on property); United States v Causby et ux, 328 US 256 (1946).

accompanied by corollary compensation.\textsuperscript{29} Indeed, there has been intense public controversy over the Supreme Court’s interpretation of “public use” to include public benefits by direct redistribution of property between private parties.\textsuperscript{30}

As a reference point, the Fifth Amendment provides a number of potential anchors for expectations. Elements of the clause could be read in its negative formulation to guarantee the sanctity of property rights, potentially helping to solidify an understanding of private property as a “keystone” right.\textsuperscript{31} Alternatively, the clause in its entirety could serve as a reference point that legitimizes government interference with private property for appropriate uses, but only so long as compensation is paid.\textsuperscript{32} On either view, individuals assessing government actions will more strongly engage the expectations generated by the constitutional command when the state action in question touches closer to a core understanding of property.\textsuperscript{33}


\textsuperscript{30} See e.g. \textit{Poletown Neighbourhood Council v City of Detroit}, 304 NW (2d) 455 (Mich 1981) (involving appropriation of property for transfer to automaker for building a factory with economic benefits for the city), rev’d \textit{County of Wayne v Hathcock}, 684 NW (2d) 765 (Mich 2004); \textit{Kelo}, supra note 28 (involving appropriation of property to support redevelopment by a pharmaceutical firm, providing economic benefits).

\textsuperscript{31} See e.g. Carol M Rose, “Property as the Keystone Right?” (1996) 71:3 Notre Dame L Rev 329 (discussing and critiquing strands of theory that prioritize property rights); Laura S Underkuffler, “Property as Constitutional Myth: Utilities and Dangers” (2007) 92:6 Cornell L Rev 1239 (American constitutional right contributes to the popular understanding of property in ways not directly congruent with nuanced legal interpretation of the clause).

\textsuperscript{32} The US Supreme Court has occasionally taken this view. See e.g. \textit{Lingle, Governor of Hawaii, et al v Chevron USA Inc}, 544 US 528 at 541 (2005).

\textsuperscript{33} The “framing” of property itself is complex legally, theoretically and in “layman’s” terms. See e.g. Ackerman, supra note 25. For recent empirical evidence on the influence that the choice of frame for property as either a “discrete asset” or “bundle of rights” had on an individual’s reactions to restrictions on property, see Nash, supra note 19.
In Canada, although property rights are in fact relatively secure and there is a long tradition of compensation for expropriation, there is no constitutional limit on government’s ability to take property and no requirement to provide compensation. In fact, when Canada adopted a suite of individual constitutional rights in 1982, the drafters vigorously debated and eventually rejected the inclusion of a right to property, leaving Canada as a relative “outlier” in eschewing a constitutional right to property. This deliberate exclusion was based on a number of factors, including concern that constitutional protection of property rights would be too restrictive of government’s ability to engage in socially desirable regulation or redistributive policy. Scholars have suggested that the absence of property rights from the Charter was supported in order to reserve room for governments to engage in (desirable) social and economic regulation and redistribution of wealth.

Canadian courts have frequently referred to the lack of constitutional status for property rights in decisions rejecting the claims of owners that

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34. See e.g. Attorney General v De Keyser’s Royal Hotel Ltd, [1920] AC 508 (statutes not to be construed to take property without compensation, unless words of statute clearly demand otherwise). The basic presumption that the Crown will respect private property can be traced much further back in English law, at least to the Magna Carta.
35. See David S Law & Mila Versteeg, “The Declining Influence of the United States Constitution” (2012) 87:3 NYUL Rev 762 at 773 (97% of all countries with written constitutional documents contain a property clause).
37. See e.g. David Schneiderman, “Property Rights, Investor Rights and Regulatory Innovation: Comparing Constitutional Cultures in Transition” (2006) 4:2 International Journal of Constitutional Law 371 (absence of property rights linked to space for economic policy, expected role for the state to “facilitate markets and redistribute wealth” at 382–83). See also Choudhry, supra note 36 at 21–27 (absence of property rights, substantive due process in the Charter to protect governments’ ability to engage in desirable socioeconomic regulation); Bauman, supra note 36 at 355 (listing the types of schemes feared to be vulnerable if property were included in the Charter).
government has unjustifiably burdened them and “taken” their property. In *Mariner Real Estate Ltd et al v Nova Scotia (Attorney General)*, in a detailed consideration of Canadian expropriation law in comparison with US takings law, Cromwell JA (as he then was) underlined the contingent nature of property rights in Canada and their inherent potential for legislative redefinition without compensation. In the context of these legal references, we might expect Canadians to regard their property rights in less absolute terms, be more tolerant of government “interference” with their property, and more receptive to redistributive schemes than Americans. The absence of a constitutional right permitting judicial scrutiny of government incursions on property suggests a more positive or trusting relationship between Canadians and government and that Canadians are less likely to view the sanctity of property rights as a fundamental value that should constrain government’s powers.

Canada and the US provide a good opportunity to test how the presence of a constitutional right relates to individual attitudes to government expropriation of property. In practice, governments in both countries would face similar legal obligations when expropriating land for purposes similar to those in the survey vignette. For example, under the Ontario *Expropriations Act* a government expropriating residential property is required to pay compensation based on the property’s market value. The federal government and virtually all provinces have statutory schemes governing expropriation and imposing a substantive requirement

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38. See e.g. *Canada Pacific Railway Co v Vancouver (City)*, 2006 SCC 5, [2006] 1 SCR 227 (no expropriation of property or compensation where the city restricted development of land held by the Canadian Pacific Railway for uses other than its continued use as a no longer economically viable rail line); *Authorson v Canada (Attorney General)*, 2003 SCC 39, [2003] 2 SCR 40; *Mariner Real Estate Ltd et al v Nova Scotia (Attorney General)*, 178 NSR (2d) 294, 549 APR 294 (CA).

39. *Ibid* at para 39 (“rights of ownership” defined by reference to lawful uses of land, which may be severely restricted, including potential for stringent land use regulation); at para 42 (extensive uncompensated land use regulation is the “norm” in Canada); at paras 40–41 (Canadian courts lack the constitutional mandate to inquire into the distributive aspects of legislative restrictions on property rights).

40. See e.g. Bauman, *supra* note 36 at 361 (discussing widespread skepticism about incorporating property rights into the Charter, indication that protection of property is not part of the “bedrock of polity”).

41. RSO 1990, c E.26, ss 13(1)–(2). Similar legislation applies to government expropriation of real property in other Canadian provinces and at the federal level.
to pay compensation. Similarly, virtually all US states have constitutions prohibiting direct expropriation of property without compensation. However, at a declarative or expressive level, the variance in constitutional status of property rights ostensibly sends different messages in the two countries. This makes the Canada-US comparison particularly apt for examination of the potential preference-shaping effect of constitutional law, and, in particular, of individual constitutional rights.

Can we find evidence that this difference in the legal structure resonates at the level of individual attitudes toward property and the choices individuals would make in hypothetical confrontations with government over their property rights?

III. Empirical Approach: The Survey

In order to solicit Canadian attitudes to expropriation of property in a way that would also allow for comparison with US attitudes and for analysis of the link to the constitutional status of property rights, I administered a survey that mirrors one used in the N & SD study referred to above. That study set out to explore the psychological foundations of popular response to the US Supreme Court’s decision in *Kelo v City of New London*, which elaborated on the extent of government’s ability to take property for public use under the Fifth Amendment of the US Constitution. In *Kelo*, the Supreme Court confirmed New London’s authority to take residential property in a depressed area that it zoned for redevelopment and to transfer the property to a private developer. The decision, while unsurprising to legal observers, seemed to shock the

public.\textsuperscript{45} Popular backlash to the decision triggered a host of legislative efforts to amend state constitutions to limit the reach of eminent domain.\textsuperscript{46} In their empirical work, N & SD used a survey based on a vignette similar to \textit{Kelo} to probe attitudes toward the government’s power to take private property.

For this study, I constructed a survey that matched that used by N & SD, modifying a few details to make it appropriate for a Canadian context.\textsuperscript{47} The survey explores financial and attitudinal responses to proposed takings, with experimental variation in the hypothetical length of time the individual has held the property (Term on Land: 2 years or 100 years) and in the government’s proposed use of the property (Use: children’s hospital, shopping mall, or unspecified).\textsuperscript{48} Participants were asked to read a version of the following short vignette and to imagine themselves in the position of the property owners facing expropriation:

\begin{quote}
\textbf{Your House}
You live in a house on a plot of land. The property (house plus land) has a market value of $200,000. The property has been in your family for [2 or 100] years.
\end{quote}

\textsuperscript{45} This might seem to undermine any claim that constitutional law operates as a reference point; however, it may be that these rules create expectations in a simple or heuristic way for most individuals that do not necessarily match the more nuanced interpretations of the constitution by legal experts. See e.g. Ackerman, supra note 25 (ordinary observers versus experts). The results of N & SD’s study confirm that individuals felt most strongly about takings of property that were more “private” in the sense of being held by a family for an extended period, and for uses that were further away from “public purposes”, e.g., use for commercial development as opposed to a hospital. The results are consistent with an important heuristic, expectation-setting role for the constitutional right.


\textsuperscript{47} The format for the original survey is found in N & SD, supra note 1 at 728–730. I made very minimal changes to the survey (for example, the use of “provincial” to describe government).

\textsuperscript{48} N & SD also varied their surveys by using two response formats for the financial incentives required to move. The response format varied between a scaled response, with specific dollar amounts offered as choices, and an open format that simply allowed participants to fill in their own value. However, in part of their analysis, N & SD converted the open responses to a scaled format, as the data generated non-normal residuals. In their analysis, N & SD grouped the responses, controlling for format. I chose to administer my survey in only a scale format for this initial study, using the same scale as N & SD. With a larger sample, it would be possible to test the impact of also allowing an open format in the Canadian survey.
The Development
The provincial government is planning to build [either a new children’s hospital, a new shopping mall, or an unspecified use] on a large parcel of land that includes your property.

The Government’s Offer
The provincial government approaches you and tells you about a property (house plus land) not too far away that is extremely similar to your current property. An independent appraiser tells you that the new property is valued at $200,000. The provincial government asks you to move to this new property and agrees to cover all expenses associated with the move.

If necessary, the provincial government can use its power to expropriate your property. In that case the law will require you to sell your property for its fair market value ($200,000) and pay your moving costs.

The participants were then asked, on the same scaled format used by N & SD, to indicate the financial incentive they would require to move voluntarily, as set out below:49

Your Response
You can try to negotiate with the government.

The government has offered to trade you the other property (worth $200,000) plus pay all of your moving expenses. How much incentive would you need to agree to part with your property and to move, IN ADDITION TO the new property and moving expenses?

☐ $0 (I would accept the government’s offer.)
☐ $5,000
☐ $10,000
☐ $50,000
☐ $100,000
☐ $500,000
☐ $1 million
☐ I am not willing to trade regardless of the incentive.

49. I did not adjust the dollar figures to reflect any exchange rate effects, but the impact of this effect was likely very small. At the time the surveys were administered, the Canadian and US dollars were trading almost at par value. See Bank of Canada, Can$/US$ Exchange Rate Look-Up, online: Bank of Canada <http://www.bankofcanada.ca>. During the period these surveys were administered, the Canadian dollar was trading at between $0.9283 and $0.9780 USD. Adjustment for exchange rate equivalence would also not take into account differences in property-related purchasing power.
In addition to being asked about the financial incentive they would demand, participants were asked a series of questions about their attitudes toward the proposed expropriation. Participants were asked how they felt about moving (very bad to very good), how morally right or wrong they thought it was for the government to ask them to move (very wrong to very right), how morally right it would be for them to move (very wrong to very right), how beneficial or harmful the development would be for the community (very harmful to very beneficial), and how good or bad they thought the government’s motives were (very bad to very good). These responses were solicited on a 7-point scale, ranging from 1 (for the most negative response) to 7 (for the most positive). Participants were also asked an open format question on what they thought government would do with the property once acquired. These attitudinal measures and scaled responses match those used in N & SD’s survey.

I administered the survey to undergraduate and law students at Queen’s University. The survey took approximately ten to fifteen minutes to complete at the beginning of a regularly scheduled class and was not announced in advance. After hearing a brief description of the study, students were allowed to choose whether or not to participate. They were offered no incentive (other than satisfaction of their curiosity) to participate and were assured that their responses would be confidential.

The pool of respondents in my survey was drawn from the undergraduate economics program and the first and second year of the law program at Queen’s University. This differs from the method of participant recruitment used by N & SD. Their subjects were drawn from a pool of individuals who had agreed previously to participate in web-based research and who were offered a small financial incentive to complete the survey, in the form of being entered into a draw for a prize.

Drawing on the information solicited about the personal characteristics of the participants, the resulting samples varied somewhat between my study and that of N & SD. My sample was smaller—it had a total of 155 participants, as compared to 568 in the N & SD study. The gender balance was roughly the same—my sample was 54% female, as compared with 58% in the N & SD study. My sample population was somewhat more ethnically diverse than that of N & SD. In my sample, 79% of participants

50. Most of these participants were Canadians (97.5%) residing in Ontario (86.5%).
51. N & SD, supra note 1 at 728.
reported White/European ethnic origin, 2% Black, 18% Asian/South Asian and 1% Aboriginal. The mean age of my sample population was younger than that of N & SD—23 years compared with 40 years. This is unsurprising, given the different recruitment strategy. In terms of educational attainment, 16% reported high school as their highest attained education, 40% reported college or university undergraduate and 44% reported graduate or professional education. This compares with figures of 20%, 60% and 19% respectively in N & SD’s sample. It is also unsurprising that the educational level of my sample is higher than that of N & SD, as all respondents were be enrolled in at least a university undergraduate program.

Respondents were also asked to state whether they rented or owned their principal residence. Not surprisingly, the majority in my sample were renters (59%), but a fairly substantial portion indicated that they owned their principal residence (37%). This seems surprisingly high for a student group. A small number (3%) added comments to the effect that they lived with their parents, suggesting that the ownership status of the respondents related to the parents. Most of the respondents currently lived in an urban environment (48%), while 2% lived in a rural setting, 23% in a small town and 27% in a suburb. This distribution is more urban than that of N & SD and particularly differs in the very small number of rural residents. It not entirely clear whether the respondents were answering in terms of their own situation or that of their parents, both in terms of their status as renters or owners and in terms of where they lived. However, their responses do indicate how they saw themselves in these respects prior to completion of the survey.

52. I used the same categories for ethnic origin in my survey as N & SD used in their survey to preserve comparability in the measured controls. In their sample, 87% were White/European, 5% Black, 3% Hispanic, 3% Asian and 2% Native American. Ibid at 728. I did not have any observations in the “Hispanic” ethnic origin category. A number of respondents wrote in answers indicating that they considered themselves to be part of a category not reflected in the choice set offered in N & SD. I have treated these as missing observations on the ethnic origin control.

53. This compares with a larger majority of owners in the N & SD sample. In their data, 71% of respondents indicated they owned their principal residence.

54. Comparable figures in N & SD are as follows: 24% urban; 42% suburban; 16% small town; and 19% rural.

55. The question about whether the respondent rents or owns immediately preceded the question about whether the location was rural, small town, suburban or urban. Both
As part of my survey, I asked about respondents’ own current family income and their parents’ current family income, variables not mentioned among the controls used by N & SD. The responses were scaled into eight categories. Not surprisingly given the student population surveyed, most respondents (74%) indicated that they had annual family incomes between $0 and $20,000. However, there was considerably more dispersion in the reported family income of parents. The median parental income for survey respondents was in the $100,000 to $150,000 category, exceeding the median Canadian family income. A substantial portion of respondents indicated family incomes in the upper categories; likely reflecting the escalating incomes of educated individuals and those at the top of the income distribution in recent years. The relatively high income measures produce a sample of survey respondents more likely to own property or to have families who do, who may also place a higher priority on the protection of property from public encroachment.

Although the use of student samples in experimental surveys is a well-established strategy, a sample consisting of university students is not representative of the Canadian population, and caution must be exercised in extrapolating from it. N & SD used a different recruitment strategy, but they also failed to generate a sample representative of their underlying population. The use of experimental methods nevertheless

56. The income categories were as follows: $0–$20,000; $20,000–$40,000; $40,000–$60,000; $60,000–$80,000; $80,000–$100,000; $100,000–$150,000; $150,000–$200,000; more than $200,000.

57. Median family income in Ontario, the province of residence for the majority of students surveyed (86%), was $72,734 in 2005. See 2006 Census Analysis Series, “Earnings and Incomes of Canadians Over the Past Quarter Century, 2006 Census: Highlights” (13 October 2009), online: Statistics Canada <www.statcan.gc.ca>. A number of respondents (around 30) chose not to answer one or both of the questions on family income, so the summary statistics above are not entirely reflective of the sample used in the main analysis.

58. See *ibid*.


60. For example, 87% of their sample is White and 19% had graduate degrees. N & SD, *supra* note 1 at 728. This is not reflective of the US population as a whole: recent US
allowed them to draw inferences about the influence of their variables of interest, and we can similarly use the results of my survey to gain insights into the likely influence of those variables in a Canadian setting. In terms of uncovering the influence of constitutional status for property, differences in the sample population I surveyed and that in N & SD also require caution in direct comparison of the results across the two studies. However, the comparative exercise provides a first step in investigating the potential impact of constitutional property rights on the responses of Canadians and Americans to expropriation. Ideally, future work will complement this study with data more reflective of the Canadian and American populations.

IV. Results

Implementation of the surveys provides an opportunity to investigate how Canadian respondents react to government expropriation of property. In particular, we can examine how financial and attitudinal responses vary depending on the owner’s relative attachment to the property and the use that government wants to make of the property. Little is known empirically about the potential systematic influence of these variables. The Canadian results can subsequently be compared with the American data from N & SD’s study, as a way to begin unpacking the potential influence of constitutional status for property on individual preferences and attitudes toward expropriation.

A. Canadian Responses

(i) Financial Incentives

After they had read the vignette, respondents were first asked what financial incentive, in addition to an equivalent replacement property, would induce them to accept the government’s offer and move

voluntarily. The full distribution of responses broken down by Term on Land is shown in Table 1.

Table 1: Financial Incentive Required to Move Voluntarily by Term on Land

<table>
<thead>
<tr>
<th>Incentive</th>
<th>Distribution of Responses</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Short Term</td>
<td>Long Term</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>$0</td>
<td>3</td>
<td>5</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>(5.16%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$5,000</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>(3.23%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,000</td>
<td>22</td>
<td>8</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>(19.35%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$50,000</td>
<td>32</td>
<td>18</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>(32.26%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$100,000</td>
<td>13</td>
<td>18</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>(20.00%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$500,000</td>
<td>6</td>
<td>12</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>(11.61%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$1,000,000</td>
<td>0</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>(3.87%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Incentive Enough</td>
<td>0</td>
<td>7</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>(4.52%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>79</td>
<td>76</td>
<td>155</td>
<td></td>
</tr>
</tbody>
</table>

* Percentage in each category among all responses given in brackets.

Most respondents said that some level of financial incentive would persuade them to move voluntarily. However, a few respondents (4.5%)—all of them in the group that received the long-term version of the survey—indicated that they would not be willing to move at any price.61 A substantially larger number (20%) were highly resistant to the idea of moving voluntarily, demanding at least 2.5 times the fair market value of the property in addition to the substitute property.62 Overall, respondents in the short term condition demanded less on average in order to be willing to move.63 The general resistance of respondents to being asked to

61. Roughly the same number of respondents were in the short (79) term and long (76) term experimental conditions.
62. This group included those selecting one of the following choices from the response scale: $500,000, $1,000,000 or “I am not willing to trade regardless of the incentive.” There were 31 respondents in this group out of 155 responses to the financial incentive questions.
63. Hypothesis of equal mean responses rejected: F(1,154) = 15.60, p < 0.0001.
move because of expropriation is apparent from the fact that a majority
demanded a substantial premium in addition to a replacement property.64

Respondents generally demanded less when their property was to be
used for construction of a hospital, compared with other uses, as is shown
in Table 2.

Table 2: Financial Incentive Required to Move Voluntarily by Proposed
Use

<table>
<thead>
<tr>
<th>Incentive</th>
<th>Distribution of Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hospital</td>
</tr>
<tr>
<td>$0</td>
<td>3</td>
</tr>
<tr>
<td>$5,000</td>
<td>5</td>
</tr>
<tr>
<td>$10,000</td>
<td>11</td>
</tr>
<tr>
<td>$50,000</td>
<td>23</td>
</tr>
<tr>
<td>$100,000</td>
<td>10</td>
</tr>
<tr>
<td>$500,000</td>
<td>5</td>
</tr>
<tr>
<td>$1,000,000</td>
<td>3</td>
</tr>
<tr>
<td>No Incentive Enough</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>61</td>
</tr>
</tbody>
</table>

* Percentage in each category among all responses given in brackets.

This is not a strongly significant result, however. When the mean
response for those in the hospital condition is compared with the mean
response for those in both alternative uses combined, there is only a
marginally significant difference (F(1,154) = 3.08, p < 0.0813). Contrasting
the hospital with the unspecified use, respondents demanded significantly
less financial incentive (F(1,154) = 4.10, p < 0.0445). However, when
asked to move for a hospital as compared to a mall, there is no significant
difference in the mean financial incentive required by respondents

64. More than 50% of respondents in the short term condition demanded a premium
of $50,000 or more, while 50% of respondents in the long term condition demanded a
premium of $100,000 or more to move voluntarily.
The statistical results confirm the apparent similarity of the responses across use. The surveys were slightly less equally distributed across experimental conditions for the Use variable, and there are a smaller number of respondents in each experimental condition. Both of these factors lead to a somewhat less robust inference about how Proposed Use influences demands for financial compensation in order to agree to move when government asks.\textsuperscript{65} The results suggest that the variation in compensation demands is primarily driven by the need to move and to give up one's own property, rather than by what sort of use the government will make of the property.

In order to more systematically investigate the relationship between the amount of financial compensation demanded, the proposed use and the term on the land, I performed two sets of regressions. The first contrasts the characteristics of those respondents who were highly resistant to moving with those who were more open to it. I divided the responses into two categories: those who were “unwilling to sell” (which included the 20% of respondents who demanded $500,000 or more in compensation) and those who were more willing to sell. I then ran a logistic regression, with willingness to sell or not as the dependent variable regressed on the Use and Term conditions and their interaction, as well as a set of controls.\textsuperscript{66} Results for this model are given in Table 3.

\textsuperscript{65} The uneven distribution of surveys across sample conditions arises because of the voluntary nature of the survey and the recruitment strategy. The survey is distributed to all students with equal representation of the experimental conditions; however, students must have the option to choose not to participate at any time during the survey, resulting in less than equal representation in returned surveys. The randomized distribution of surveys and relatively small difference in the return rate make it unlikely that there is any consequent systematic link to respondent characteristics that could have significantly influenced the results. Although the hospital condition has more responses, there are a significant proportion of respondents in all Use categories.

\textsuperscript{66} The controls were based on information collected in the survey; however, in part because of the nature of the responses and because of the small sample, I did not uniformly implement categorical controls with dummies for each possible index category. I indicate where index categories were combined in the controls that follow. Controls included are: location (grouping rural and small town versus suburban & urban (latter both grouped and separately)); ownership (owning versus renting); age (continuous or numerical); ethnicity (grouped to contrast White/European versus minority); education (grouped to contrast undergraduate or lower versus graduate/professional). I also used the financial controls (own family income, parent family income) in a few test regressions; however, these cannot be contrasted with results from N & SD, so they are of less interest here.
Table 3: Logistic Regression for Unwillingness to Sell

<table>
<thead>
<tr>
<th>Variable</th>
<th>Coefficient</th>
<th>Odds Ratio</th>
<th>Z-stat(^{66}) (p value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term</td>
<td>1.76</td>
<td>5.79</td>
<td>3.23 (p &lt; 0.001)</td>
</tr>
<tr>
<td>Use</td>
<td>-0.79</td>
<td>0.453</td>
<td>-1.55 (p &lt; 0.122)</td>
</tr>
<tr>
<td>Constant</td>
<td>-2.29</td>
<td>-4.70</td>
<td>(p &lt; 0.000)</td>
</tr>
<tr>
<td>Log Likelihood</td>
<td>-55.31</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(\chi^2\) \((2)\) 14.95 (p < 0.0006)

N \(^{67}\) 133

* Standard errors in parentheses.

The results of this first logistic regression show that those in the long term experimental condition were more than five times as likely to be unwilling to sell as those in the short term experimental condition. This result is highly statistically significant (p < 0.001). Those in the hospital experimental condition were less likely to be unwilling to sell, but this result was not significant at conventional levels of confidence (p < 0.122).\(^{69}\) Despite the existence of a fair amount of variation in the control variables employed, they did not generate any significant explanatory power.\(^{70}\) The results below are for simple regressions of the bivariate

---

\(^{66}\) Tests for single coefficient restrictions in logistic models are calculated as t-statistics, compared to the standard normal distribution, while more complex coefficient restrictions may be tested with Wald, LR or LM tests. For discussion of hypothesis testing in bivariate choice models, see William H Greene & David A Hensher, “Modeling Ordered Choices” (2009) at 42, online: New York University <http://people.stern.nyu.edu/wgreene>.

\(^{67}\) The sample size in the logistic regressions is reduced, as some observations were dropped due to missing information on control variables, such as ethnicity, ownership status or location. Only observations for which there was a complete set of controls were used in the regression analysis.

\(^{69}\) The reported results are for the regression treating hospital use versus other uses grouped. There is no significant effect of Use when the alternative format of dummies for each use is employed (omitting “unspecified”).

\(^{70}\) The results presented are from simple regressions of the bivariate dependent variable on the Use and Term dummies. Alternative specifications including the controls produced...
dependent variable on the Term and Use experimental conditions. The interaction variable was insignificant in alternative specifications in which it was included.

72. There was more variation in these controls; other insignificant controls including Age and Education may have lacked sufficient variation to produce measurable effects.

73. LR test: \( \chi^2 (6) = 7.63, p < 0.2666 \).

74. This result was robust across several alternative specifications, including those with multiple dummies for the Use variable and a version of the model adding controls for parental income. In the alternative specifications the significance on the ethnicity variable was at least as high as the reported significance above.
the Use variable was no longer significant. The Use variables also became insignificant when the alternatives (hospital and mall) are considered separately (omitting the unspecified Use). The interaction between Use and Term was also insignificant.

Table 4: Ordered Logit Regression for Financial Incentive to Move

<table>
<thead>
<tr>
<th>Variable</th>
<th>Coefficient</th>
<th>Z-stat (p value)</th>
<th>Coefficient</th>
<th>Z-stat (p value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 1: With Controls</td>
<td></td>
<td></td>
<td>Model 2: No Controls</td>
<td></td>
</tr>
<tr>
<td>Term</td>
<td>1.25</td>
<td>3.70 (0.000)</td>
<td>1.17</td>
<td>3.56 (0.000)</td>
</tr>
<tr>
<td>Use</td>
<td>-0.50</td>
<td>-1.56 (0.119)</td>
<td>-0.55</td>
<td>-1.74 (0.081)</td>
</tr>
<tr>
<td>Location</td>
<td>-0.40</td>
<td>-1.03 (0.304)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ownership</td>
<td>-0.30</td>
<td>-0.96 (0.338)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>0.05</td>
<td>0.87 (0.384)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gender</td>
<td>-0.07</td>
<td>-0.21 (0.831)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethnicity</td>
<td>0.68</td>
<td>1.69 (0.090)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>-0.56</td>
<td>-1.44 (0.151)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Log Likelihood</td>
<td>-223.43</td>
<td></td>
<td>-227.24</td>
<td></td>
</tr>
<tr>
<td>$\chi^2$</td>
<td>23.68</td>
<td>(p &lt; 0.0026)</td>
<td>16.05</td>
<td>(p &lt; 0.0003)</td>
</tr>
<tr>
<td>N</td>
<td>133</td>
<td></td>
<td>133</td>
<td></td>
</tr>
</tbody>
</table>

* Standard errors for coefficients in parentheses. P values for Z-stats in parentheses.

Further calculation is needed to uncover the marginal effects of changes in the independent variables of interest, as estimated coefficients in ordered logit regressions do not have direct, intuitive interpretations in terms of

---

75. Tests for single coefficient restrictions in ordered logistic models calculate a Wald statistic in the form of a z-statistic that is compared with critical values from the standard normal distribution, while more complex coefficient restrictions may be tested with Wald, LR or LM tests, distributed $\chi^2$. For discussion of hypothesis testing in ordered logit models, see Greene & Hensher, supra note 67 at 124–25.
the relationship between the independent and dependent variables.\textsuperscript{76} The calculated marginal effects, by definition, would shift the distribution of probability between the available categories.\textsuperscript{77} The marginal effects of moving between the short term and long term experimental conditions, as well as moving from the combined alternative uses to the hospital, are given in Table 5, below.

Table 5: Marginal Effects of Term & Use on Choice of Financial Incentive

<table>
<thead>
<tr>
<th>Incentive</th>
<th>Model 1: With Controls</th>
<th></th>
<th></th>
<th>Model 2: No Controls</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pr(Incent)</td>
<td>dPr/dTerm</td>
<td>dPr/dUse</td>
<td>Pr(Incent)</td>
<td>dPr/dTerm</td>
<td>dPr/dUse</td>
</tr>
<tr>
<td>$0</td>
<td>0.039</td>
<td>-0.048</td>
<td>(p&lt;0.018)</td>
<td>0.020</td>
<td>(p&lt;0.179)</td>
<td>0.044</td>
</tr>
<tr>
<td>$5,000</td>
<td>0.029</td>
<td>-0.033</td>
<td>(p&lt;0.039)</td>
<td>0.014</td>
<td>(p&lt;0.201)</td>
<td>0.032</td>
</tr>
<tr>
<td>$10,000</td>
<td>0.189</td>
<td>-0.153</td>
<td>(p&lt;0.000)</td>
<td>0.064</td>
<td>(p&lt;0.128)</td>
<td>0.195</td>
</tr>
<tr>
<td>$50,000</td>
<td>0.351</td>
<td>-0.058</td>
<td>(p&lt;0.090)</td>
<td>0.021</td>
<td>(p&lt;0.228)</td>
<td>0.340</td>
</tr>
<tr>
<td>$100,000</td>
<td>0.227</td>
<td>0.115</td>
<td>(p&lt;0.002)</td>
<td>-0.051</td>
<td>(p&lt;0.136)</td>
<td>0.221</td>
</tr>
<tr>
<td>$500,000</td>
<td>0.109</td>
<td>0.107</td>
<td>(p&lt;0.004)</td>
<td>-0.042</td>
<td>(p&lt;0.129)</td>
<td>0.109</td>
</tr>
<tr>
<td>$1,000,000</td>
<td>0.026</td>
<td>0.031</td>
<td>(p&lt;0.068)</td>
<td>-0.012</td>
<td>(p&lt;0.202)</td>
<td>0.027</td>
</tr>
<tr>
<td>No Incentive Enough</td>
<td>0.030</td>
<td>0.039</td>
<td>(p&lt;0.043)</td>
<td>-0.014</td>
<td>(p&lt;0.182)</td>
<td>0.032</td>
</tr>
</tbody>
</table>

* Pr(Incent) = probability incentive choice falls in the corresponding category, dPr/dTerm & dPr/dUse are changes in probability of category from discrete change in the associated dummy. P values for estimated marginal effects in brackets, effects significant at 10% or better in \textbf{bold}.

\textsuperscript{76} See e.g. \textit{ibid} at 119–21.

\textsuperscript{77} See \textit{ibid} at 120.
The marginal effect of moving from short-term to long-term occupancy of the vignette property is similar for both models. The effect is to shift the distribution of financial incentive responses toward the higher values.

As seen in Table 5, the likelihood of a choice among all four categories from $0 to $50,000 declines, with the largest absolute predicted decline in the probability of an individual selecting the $10,000 category. The likelihood of a choice among the upper set of incentives increases (ranging from $100,000 to “no incentive enough”). There are large, significant predicted marginal increases in the probability of an individual selecting either $100,000 or $500,000 as the preferred compensation. While the shift between short and long term also increases the predicted probability that individuals will demand very high compensation or be completely unwilling to move, these effects are smaller in absolute terms and not as statistically significant.

The marginal effect of designating the hospital use relative to the alternative use was also similar across models. The presence of the hospital condition is associated with a predicted shift in the distribution of incentive responses toward the lower values; however, the predicted effects are often not statistically significant. The predicted marginal effects of introducing the hospital use are smaller in magnitude than the effect of the Term on Land condition on the incentive responses. The largest response is found in the predicted increase in the probability that the $10,000 category is chosen (6.4% in Model 1; 7% in Model 2). This effect is marginally significant in Model 2. The other substantial effects are the declines in the probability that the $100,000 and $500,000 categories are selected when the hospital condition is present—declines in the order of 5% and 4% respectively. These effects are also marginally significant in Model 2.

The analysis of the marginal effects indicates a relatively consistent relationship between the variables of interest and the compensation demands. The long term experimental condition was associated with higher demands for compensation in the form of a shift from moderate demands for compensation to high, but not extreme, demands for compensation. The marginal impact of the Use condition is more muted. The introduction of a clearly “public use” condition (the hospital) shifted the demand for compensation downward, increasing the probability of choice in the moderate range and reducing the likelihood of demands in the
higher categories. However, the effect is not robust across models and the effects are often statistically insignificant. Overall, the marginal analysis appears to confirm that individuals’ demands for financial compensation in the face of expropriation are most robustly influenced by the nature of their attachment to the property, as reflected in the term they have hypothetically been in occupation. While there is some evidence that the use government proposes for the property has an effect on compensation, it is much less systematically significant.

(ii) Attitudinal Responses

In addition to the questions about the level of financial incentive needed to induce a voluntary move, the survey solicited attitudinal responses from respondents about the proposed move on a 7-point scale. Below, I discuss the results for these attitudinal measures, breaking the analysis down by Term and Proposed Use. As in the N & SD study, I have grouped analysis of the individuals’ attitudes toward the move and attitudes about government.

The mean responses for individuals by Term are given in Table 6.78 Considering the responses together, on average, none of the respondents felt particularly good about moving, as the mean falls between the “bad” and “somewhat bad” categories. However, on average, respondents were neutral about whether it was morally right for them to move. On average, they saw moving as slightly beneficial to the community, with average responses falling between “neutral” and “somewhat beneficial”. Tracking this result, respondents also felt government was marginally influenced by good motives, the mean response falling again between the “neutral” and “somewhat good” categories. However, on average, respondents considered it slightly morally wrong for the government to have asked them to move, with the mean response falling between “somewhat wrong” and “neutral”.

Comparing these attitudinal measures across the Term variable disclosed no statistically significant differences. It did not seem to matter how long the respondents in the scenario had held the land; they responded similarly to the attitudinal questions. This is evident from the F-statistics

---

78. Note that these responses are conditional on sorting by Term only, and are not conditioned on the Proposed Use.
for the null that the attitudinal means for short term and long term responses were equal, as set out in Table 6. None of these test statistics imply rejection of the null at any conventional level of significance.

Table 6: Mean Responses for Attitude Measures by Term on Land

<table>
<thead>
<tr>
<th>Question</th>
<th>Mean</th>
<th>F-stat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Short Term</td>
<td>Long Term</td>
</tr>
<tr>
<td>Attitude Toward Moving</td>
<td>2.87 (1.05)</td>
<td>2.65 (1.24)</td>
</tr>
<tr>
<td>I Am Morally Right if I Move</td>
<td>4.08 (1.21)</td>
<td>3.87 (1.22)</td>
</tr>
<tr>
<td>Moving Will Benefit Community</td>
<td>4.73 (1.44)</td>
<td>4.51 (1.32)</td>
</tr>
<tr>
<td>Government Morally Right</td>
<td>3.47 (1.44)</td>
<td>3.32 (1.38)</td>
</tr>
<tr>
<td>Government Motives</td>
<td>4.42 (1.46)</td>
<td>4.47 (1.24)</td>
</tr>
</tbody>
</table>

*Standard errors in parentheses.

Comparing the attitudinal measures across the Proposed Use variable disclosed significantly more variation in the average responses, as seen in Table 7, below. Respondents still felt slightly negative about moving, and this response is different in a marginally significantly way across proposed uses. A comparison of the mean response for the hospital use with the alternatives of a mall and an unspecified use grouped together produced a marginally significant difference (p < 0.0672). This significance is driven by the lower mean response for respondents confronting expropriation with no proposed use specified. Comparing the mean response of those who faced expropriation for a hospital with the mean response of those whose property was taken to build a mall, disclosed no statistically significant difference in the attitude toward moving. However, there is a much more marked difference when contrasting the mean responses to whether the individual is morally right to move, and to whether moving will benefit the community across the proposed uses. The use of the property for a hospital strongly increases the mean response for both. On average, respondents felt that they were morally somewhere between “neutral” and “somewhat right” to move, and that the use will
be between “somewhat beneficial” and “beneficial” to the community when the property is taken for a hospital. In contrast, the other uses generated responses that are neutral to marginally negative. Again, it is interesting that on these measures the sample means for the mall use are more positive than those where no use is specified. There are strongly statistically significant differences between the means for hospital use compared to the other uses combined, and when contrasting the specific uses of a hospital with a mall, as set out below in Table 7.

Table 7: Mean Responses for Attitude Measures by Proposed Use

<table>
<thead>
<tr>
<th>Question</th>
<th>Proposed Use</th>
<th>F-stat μH=μO</th>
<th>F-stat μH=μM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hospital</td>
<td>Mall</td>
<td>Unspecified</td>
</tr>
<tr>
<td>Attitude Toward Moving</td>
<td>2.98 (1.24)</td>
<td>2.68 (1.56)</td>
<td>2.56 (1.10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I Am Morally Right if I Move</td>
<td>4.46 (0.91)</td>
<td>3.78 (1.18)</td>
<td>3.52 (1.39)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moving will Benefit Community</td>
<td>5.66 (1.08)</td>
<td>4.04 (1.28)</td>
<td>3.86 (0.95)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government Morally Right</td>
<td>3.84 (1.34)</td>
<td>3.18 (1.26)</td>
<td>3.02 (1.52)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government Motives</td>
<td>5.16 (1.00)</td>
<td>3.74 (1.37)</td>
<td>4.25 (1.31)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Standard errors in parentheses. Statistically significant test statistics indicated in bold.

When we examine the respondents’ attitudes toward government, again we see that the proposed use makes a significant difference to the response. For all proposed uses, respondents feel marginally negative about the expropriation; however, the mean for the hospital use is closest to “neutral” while the other mean responses are closer to the view that it is “slightly wrong” for the government to ask for the property. The means are significantly different, whether comparing the hospital to the other uses grouped (p<0.0013) or comparing the hospital to the mall directly (p<0.0088). Respondents facing possible expropriation for the hospital project also ascribed more positive motives to the government on average, rating them at slightly better than “somewhat good”. In
contrast, the mean responses for those whose property was to be taken for the mall fell between “somewhat bad” and “neutral”, while those for unspecified uses were roughly neutral about the government’s motives. The difference between the positive mean response of hospital use and other uses grouped was significant ($p < 0.0000$), as was hospital versus mall ($p < 0.0000$).

Based on the sample data, the nature of the proposed use was more important than the length of time on the property in explaining the variation in respondents’ attitudes. The latter did not drive significant variation in participants’ attitudes toward the proposed expropriation. In general, the sample respondents held neutral to negative attitudes toward government expropriation of the property, except where the proposed use was a hospital—an evocative “public use” of the property. Even then, respondents were lukewarm toward moving. However, the hospital condition was associated with significantly more positive attitudes, indicating that moving was seen as morally right and as being beneficial to the community. The hospital use also produced significantly more positive assessments of the legitimacy of the government demand for the property, and particularly of government’s motives. While the respondents did not appear to translate the influence of these attitudes into variation in the compensation demanded, the nature of the proposed use of the property does appear to have affected their attitudes toward expropriation, particularly their assessment of the government behaviour.

**B. Comparative Analysis: Canadian and American Responses**

To probe the question of whether the existence of a constitutional right to property influences individual responses to government expropriation, I will compare the Canadian survey results with those of the N & SD study set in the US. As noted above, this comparative exercise must be approached with caution. The nature of the experimental design does not allow for a test of the potential causal effect of constitutional property law; at most we can examine the comparative data to see if it is consistent with the hypothesis that constitutional rights serve as a reference point for individuals. In addition, although my survey design for the Canadian data follows N & SD’s work as closely as possible, there are some
methodological differences. Neither the Canadian nor American sample is fully representative of the underlying populations, and there were differences in the recruitment methods of the two samples and in their characteristics. This limits the ability to draw generalizable conclusions from these studies about attitudes toward expropriation in the two countries. Nevertheless, keeping these caveats in mind, I will examine the comparative data to see whether any significant differences are apparent between the attitudes of the Canadian and American respondents when faced with similar expropriation scenarios.

(i) Financial Incentives

There are strong similarities between the Canadian and American responses on the financial incentives required to move. A majority of both sets of respondents expressed a willingness to move at some level of compensation. Only a small minority said that no amount of compensation could induce them to give up the property—a minority that was even smaller in the Canadian sample (4.5%) than in the American sample (9.4%). In both samples, respondents in the long term experimental condition were much more likely to be in this minority. In fact, in the Canadian sample, all of those who would have refused to sell were in the long term condition. This difference provides some indication that the rate of “private property extremism” may be higher in the US, although

79. In some ways the designs are not identical. For example, in this study I did not use separate questions to ask whether government was motivated by good motives and bad motives, but asked a single question asking for a global assessment of government’s motives. I thought this would be a more straightforward way to approach individuals’ assessments of government motives. It is similar to the approach in N & SD, but a “net” approach to their questions. The 7-point scale in N & SD for assessing whether government is motivated by good or bad motives ranges from 1=“not at all” to 7=“very much”. N & SD, supra note 1 at 730. In the analysis below, I assume that a value of 4 is equivalent to respondent neutrality on the question of government motives for both of N & SD’s questions. 80. Here again, the inclusion of control variables helps to mitigate this problem to a certain degree. 81. This concern is somewhat blunted by the insignificance of control variables/robustness of the general conclusions across controls that relate to the representativeness of the sample (e.g., age, ethnicity, education, income, owner/renter status, location, etc.) 82. The results for the financial component of the US study are set out in N & SD, supra note 1 at 731–34.
the small sample size for Canadian respondents in this category makes it difficult to draw any robust inference. In both samples, those in the long term condition demanded significantly more compensation than those in short-term occupancy. In contrast, the variation in the Use variables had no consistent significant effect on the financial incentives required by respondents in either sample.

The results from the logit regressions on the Canadian and American data confirm the broad outlines above. In analyzing the group of highly resistant sellers in both samples, the main result is the significant influence of the Term variable: those in the long-term occupancy condition were significantly more likely to refuse or be very unwilling to sell their property. In contrast, the Use variable had little or no effect. While the hospital use had some marginal significance in Canada, this was not robust across specifications and it showed no significant effect in the American data. Similarly, in regressions including the full range of financial incentives, the long term condition led to higher demands for compensation in both samples. This result is significant and robust across specifications in both the Canadian and American data. The Use variable worked in a similar direction in both studies, with respondents demanding lower compensation when the proposed use was a hospital. However, in neither case were the effects statistically reliable or robust across specifications.

Despite the very different constitutional protection of property rights, Canadians and Americans appear to behave in a similar manner when confronted with a hypothetical expropriation scenario. For both Canadians and Americans, the most influential variable explaining demands for compensation appears to be how long the respondent has owned the property. In neither sample did respondents appear to systematically and reliably calibrate their demands for compensation on the basis of the use that the government proposed for the property.

(ii) Attitudes Toward Moving

In contrast, there was more variability in how the Canadian and American respondents felt about the expropriation scenarios. A major qualitative difference is found in the respective influence of the Term variable. This is apparent in Table 8, below, giving mean responses by
Term in the Canadian and American samples. In the American data, the Term variable continues to exert a strong and statistically robust influence on attitudes. In the American experiments, those in long-term occupancy felt more negatively about moving, and felt that it was both less moral for them to move and less beneficial to the community. They also considered it less moral for government to ask them to move, and were more inclined to attribute bad motives to government. For the Canadian sample, in contrast, the results on the attitude measures are not significantly influenced by the Term variable. The Canadian respondents appear to have felt the same about the proposed takings whether they were in short- or long-term occupancy of the property.

Table 8: Attitude Toward Moving by Term on Land in Canada & US

<table>
<thead>
<tr>
<th>Question</th>
<th>Short Term</th>
<th></th>
<th>Long Term</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Can</td>
<td>US</td>
<td>Can</td>
<td>US</td>
</tr>
<tr>
<td>Attitude Toward Moving</td>
<td>2.87</td>
<td>(1.05)</td>
<td>2.65</td>
<td>(1.24)</td>
</tr>
<tr>
<td></td>
<td>3.91</td>
<td>(1.65)</td>
<td>3.38</td>
<td>(1.66)</td>
</tr>
<tr>
<td>I Am Morally Right if I Move</td>
<td>4.08</td>
<td>(1.21)</td>
<td>3.87</td>
<td>(1.20)</td>
</tr>
<tr>
<td></td>
<td>4.66</td>
<td>(1.50)</td>
<td>4.38</td>
<td>(1.50)</td>
</tr>
<tr>
<td>Moving Will Benefit Community</td>
<td>4.73</td>
<td>(1.44)</td>
<td>4.51</td>
<td>(1.32)</td>
</tr>
<tr>
<td></td>
<td>4.52</td>
<td>(1.42)</td>
<td>4.30</td>
<td>(1.35)</td>
</tr>
</tbody>
</table>

*Sample mean responses. Standard errors of responses in parentheses. Statistically significant differences in **bold**.

In both the Canadian and American samples, respondents’ attitudes, in contrast with their financial demands, do appear to be significantly influenced by the proposed use of the property, as seen in Table 9, below. In both countries, when the proposed use was the hospital respondents felt better about moving, felt that it was more morally right, and that it would be more beneficial to the community. Similarly, when the hospital was the proposed use respondents in both countries felt that government was more morally right and more influenced by good motives.

83. The US attitudinal results shown in Tables 8–11 are set out and discussed in N & SD, *supra* note 1 at 734–36.
Table 9: Attitude Toward Moving by Proposed Use in Canada & US

<table>
<thead>
<tr>
<th>Question</th>
<th>Proposed Use</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hospital</td>
<td>Mall</td>
<td>Unspecified</td>
<td>Can</td>
<td>US</td>
</tr>
<tr>
<td>Attitude Toward Moving</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attitude Toward Moving</td>
<td>2.98</td>
<td>3.81</td>
<td>2.68</td>
<td>3.60</td>
<td>2.56</td>
</tr>
<tr>
<td></td>
<td>(1.24)</td>
<td>(1.67)</td>
<td>(1.06)</td>
<td>(1.63)</td>
<td>(1.10)</td>
</tr>
<tr>
<td>I Am Morally Right if I Move</td>
<td>4.46</td>
<td>4.80</td>
<td>3.78</td>
<td>4.43</td>
<td>3.52</td>
</tr>
<tr>
<td></td>
<td>(0.91)</td>
<td>(1.41)</td>
<td>(1.18)</td>
<td>(1.42)</td>
<td>(1.39)</td>
</tr>
<tr>
<td>Moving Will Benefit Community</td>
<td>5.66</td>
<td>5.25</td>
<td>4.04</td>
<td>3.97</td>
<td>3.86</td>
</tr>
<tr>
<td></td>
<td>(1.08)</td>
<td>(1.34)</td>
<td>(1.28)</td>
<td>(1.28)</td>
<td>(0.95)</td>
</tr>
</tbody>
</table>

*Sample mean responses. Standard errors of responses in parentheses. Statistically significant difference in **bold**.

Overall, the Canadian respondents appear to have felt worse about the proposed expropriations than their American counterparts, as is apparent from Tables 8 and 9. Both the Canadian and American respondents had worse than neutral feelings about moving, but the Canadian responses were significantly less favourable than the US responses. This result is robust whether we compare attitudes across short term and long term conditions in the Canadian and American samples or attitudes across Proposed Use categories. The Canadians were also less convinced than the Americans that it was morally right for them to move. Again, this result

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84. I am assuming comparability of the seven point attitudinal scales used in N & SD with those used in my survey. In this section, in order to test whether there is a significant difference between the Canadian and US means, I have used simple t-tests for the mean of a single distribution (the Canadian distribution) and tested the null hypothesis that the mean of the Canadian distribution is equal to that of the US (as reported in N & SD), primarily against a two-tailed alternative of unequal means, but occasionally against a one-tailed alternative.

85. Test for means for attitude toward moving by Term condition, H₀: μ_Can = μ_US: short term: t_{(78)} = -8.73 (p < 0.0000); long term: t_{(73)} = -5.0579 (p < 0.0000).

86. Test for means for attitude toward moving by Use condition, H₀: μ_Can = μ_US: hospital: t_{(59)} = -5.16 (p < 0.0000); mall: t_{(49)} = -5.75 (p < 0.0000); unspecified: t_{(42)} = -6.22 (p < 0.0000).
is robust across comparison by Term\textsuperscript{87} and by Proposed Use.\textsuperscript{88} However, this result is not due to any feeling by Canadian respondents that their move would be less beneficial for the community; to the extent that there were any significant differences in this regard, Canadian respondents felt that their move would be \textit{more} beneficial to the community.\textsuperscript{89}

(iii) Attitudes Toward Government

Somewhat surprisingly, the more negative feelings expressed by the Canadian respondents also cannot be linked to more negative attitudes toward the government’s moral justification in asking for the property, or more negative perceptions of its motives. The means for attitudinal questions focused on government are summarized below in Table 10 by Term and in Table 11 by Use.

In general, both Canadian and American respondents appear to have felt that it was mildly immoral for government to ask them to give up their property. In the US sample, this attitude was stronger among respondents in long-term occupancy, but that was not true for the Canadian sample.\textsuperscript{90} There was no significant difference between the samples in the attitude of those in short-term occupancy toward the government’s moral justification in asking for the property, nor was there any significant difference between them with respect to the government’s moral justification for demanding their property for a hospital or for an

\textsuperscript{87} Test for means for moral to move by Term condition, H\textsubscript{0}: \( \mu_{\text{Can}} = \mu_{\text{US}} \): short term: \( t_{(77)} = -4.24 \ (p < 0.0001) \); long term: \( t_{(75)} = -3.70 \ (p < 0.0004) \).

\textsuperscript{88} Test for means for moral to move by Use condition, H\textsubscript{0}: \( \mu_{\text{Can}} = \mu_{\text{US}} \): hospital: \( t_{(60)} = -2.94 \ (p < 0.0046) \); mall: \( t_{(48)} = -3.89 \ (p < 0.0003) \); unspecified: \( t_{(43)} = -4.00 \ (p < 0.0002) \).

\textsuperscript{89} There is a marginally significant difference when testing the mean attitudes to community harm or benefit across term of occupancy, against the one-tailed alternative of a higher Canadian mean (short term: \( t_{(78)} = 1.32 \ (p < 0.0962) \); long term: \( t_{(75)} = 1.41 \ (p < 0.0819) \)). There is a significant difference in the mean attitude to community harm or benefit when examining the hospital use, with Canadians finding it more beneficial (hospital: \( t_{(60)} = 2.94 \ (p < 0.0023)—\text{one tailed})\). In contrast, when examining the attitude toward community harm or benefit across the unspecified or mall categories, there is no significant difference in mean response between Canadians and Americans (either one- or two-tailed tests).

\textsuperscript{90} Test for equal means to question of whether government moral to ask across Canada and US, by Term condition, H\textsubscript{0}: \( \mu_{\text{Can}} = \mu_{\text{US}} \): short term: \( t_{(78)} = 0.546 \ (p < 0.587) \); long term: \( t_{(75)} = 2.124 \ (p < 0.0369)—\text{two tail}; p < 0.0185—\text{one tail, Can > US} \).
unspecified Use condition, but Canadians appear to have been somewhat less negative in that regard than Americans when the property was to be used for a mall. 91

Table 10: Attitude Toward Government by Term on Land in Canada & US

<table>
<thead>
<tr>
<th>Question</th>
<th>Short Term</th>
<th>Long Term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Can</td>
<td>US</td>
</tr>
<tr>
<td>Government Morally Right</td>
<td>3.47</td>
<td>(1.44)</td>
</tr>
<tr>
<td>Government Motives (Can)</td>
<td>4.42</td>
<td>(1.46)</td>
</tr>
<tr>
<td>Government Good Motives (US)</td>
<td>4.69</td>
<td>(1.45)</td>
</tr>
<tr>
<td>Government Bad Motives (US)</td>
<td>3.42</td>
<td>(1.59)</td>
</tr>
</tbody>
</table>

*Sample mean responses. Standard errors of responses in parentheses. Statistically significant differences in bold.

Turning to comparative attitudes about government motives, a similar picture emerges. 92 In general, in both Canada and the US, survey respondents felt neutral to slightly positive about them. Again, in the US those in long-term occupancy of their property had slightly more negative feelings, so they were more inclined to attribute “bad” motives to the government. As between the two samples, the Canadians who were in long-term occupancy on average attributed “good” motives to government to a significantly greater extent than the Americans who

91. Test for equal means for to question of whether government moral to ask across Canada and US, by Use condition, H_0: \( \mu_{\text{Can}} = \mu_{\text{US}} \): hospital: \( t_{(60)} = 0.733 (p<0.4666) \); mall: \( t_{(49)} = 2.307 (p<0.0253—\text{two tailed}; p<0.0127—\text{one tailed, Can}>\text{US}) \); unspecified: \( t_{(43)} = -0.250 (p<0.8035) \).

92. Comparison on this variable is complicated somewhat by the different way in which attitudes about government motives where solicited. Where the net attitude toward government is positive in Canada, I have assumed the primary comparison of interest is between the Canadian measure and the “good” motives measure for the US data. When the Canadian net mean is negative, I have focused on the similarity with “bad” motives in the US.
were in long-term occupancy, but that was not true of those in short-term occupancy.93

Table 11: Attitude Toward Government by Proposed Use in Canada & US

<table>
<thead>
<tr>
<th>Question</th>
<th>Proposed Use</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hospital</td>
<td>Mall</td>
<td>Unspecified</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government Morally Right</td>
<td>3.84</td>
<td>(1.34)</td>
<td>3.71</td>
<td>(1.67)</td>
<td>3.18</td>
<td>(1.26)</td>
</tr>
<tr>
<td>Government Motives (Can)</td>
<td>5.16</td>
<td>(1.00)</td>
<td>3.74</td>
<td>(1.37)</td>
<td>4.25</td>
<td>(1.31)</td>
</tr>
<tr>
<td>Government Good Motives (US)</td>
<td>5.26</td>
<td>(1.39)</td>
<td>4.12</td>
<td>(1.48)</td>
<td>3.95</td>
<td>(1.56)</td>
</tr>
<tr>
<td>Government Bad Motives (US)</td>
<td>3.01</td>
<td>(1.58)</td>
<td>3.93</td>
<td>(1.55)</td>
<td>3.90</td>
<td>(1.57)</td>
</tr>
</tbody>
</table>

*Sample mean responses. Standard errors of responses in parentheses. Statistically significant differences in bold.

Both the Canadian and American respondents were sensitive to the proposed use in their attitudes about government motives. In both samples, the hospital use was associated with a substantially higher mean attribution of good motives to government than the other two uses. However, there was no significant difference between the level of “good” motivations assessed by Canadians and Americans when the proposed use was a hospital.94 The Canadians and Americans were roughly neutral in their responses to government motivations for the other two proposed uses (mall or unspecified use). The mean Canadian response for the mall use is slightly negative about government motivations. This Canadian mean response is statistically indistinguishable from the American mean

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93. Test for equal means comparing motives question in Canada with “good” motives mean in US by Term, $H_0: \mu_{\text{Can}} = \mu_{\text{US}}$ : short term: $t_{(75)} = -1.653$ ($p<0.1024$); long term: $t_{(78)} = 2.260$ ($p<0.0267$—two tail; $p<0.0134$—one tail, Can > US).
94. Test for equal means comparing motives question in Canada with “good” motives mean in US, by Use condition, $H_0: \mu_{\text{Can}} = \mu_{\text{US}}$ : hospital: $t_{(60)} = -0.748$ ($p<0.4574$).
for “bad” motives in the mall condition. The mean Canadian response in the unspecified condition is weakly positive about government motives. This mean response is statistically marginally higher than that for the US “good” motives response. Direct comparison of the results is slightly complicated because of the different approach used to assess respondent attitudes toward government motives. Overall, the responses across the Canadian and US surveys indicate a remarkable degree of consistency in how respondents attribute the level of good or bad motivation to government in the vignettes.

C. Public Law and Private Preferences

The broad objective of this survey experiment was to provide evidence to help assess the theory that law plays an important role as a reference point for individual preferences. There is a stark difference between the Canadian and American approaches to property at the level of individual constitutional rights—perhaps the most salient form of public law protection. The US constitutionally limits the ability of government to encroach on individual property rights, but Canada has no such restriction, and an individual right to property was deliberately excluded from the Charter. Whether we see constitutional law as constituting the fundamental values held by individuals in a society or as reflecting those values, we would expect to find significant differences in how Canadians and Americans respond to proposed government expropriation of property. For the most part, the results generated in this survey, when compared to those reported in a sample of American respondents in the N & SD study, do not point to any such divergence, but instead to strong similarity.

Canadian and American respondents were similar in terms of their demands for financial compensation in the face of proposed expropriation.

95. Test for equal means comparing motives question in Canada with “bad” motives mean in US, by Use condition, H : \( \mu_{\text{Can}} = \mu_{\text{US}} \) : mall: \( t_{(49)} = -0.983 \) \( (p < 0.3307—two \text{ tailed}) \). The Canadian response is significantly distinguishable, if the Canadian mean is compared with the US mean response for “good” motives: H : \( \mu_{\text{Can}} = \mu_{\text{US}} \) : mall: \( t(49) = -1.965 \) \( (p < 0.0551—two \text{ tailed}; p < 0.0275—one \text{ tailed}) \).

96. Test for equal means comparing motives question in Canada for unspecified use with “good” motives mean in US, H : \( \mu_{\text{Can}} = \mu_{\text{US}} \) : unspecified: \( t_{(43)} = 1.514 \) \( (p < 0.1372—two \text{ tailed}; p < 0.0686—two \text{ tailed}) \).
The vast majority of respondents demanded some amount of compensation over and above the provision of a substitute property, with the amount demanded being tied most significantly to the length of occupancy of the land. Neither the Americans nor the Canadians appeared to alter their financial demands in response to the use proposed by the government for their property. For both, the degree of subjective attachment to the property (as reflected in the length of occupancy) was the variable that best explained the demand for compensation. These results do not appear to vary with the public law structure that governs expropriation, but to suggest a more universal approach to property rights that is at odds with the stark difference in their constitutional status in Canada and the US.

Nor do the attitudinal measures which were surveyed provide strong support for the theory that public law in the form of an individual constitutional right to property significantly determines or reflects individual preferences. Both the Canadian and American respondents were lukewarm at best when faced with government demands for their property. However, for both surveys, these more or less negative attitudes were moderated when the proposed use was a hospital. Importantly for the hypothesis that constitutional differences matter, the data offered no strong evidence of differences in attitudes toward government as between Canada and the US, but instead showed that for the most part, those attitudes were very similar. Some marginal differences emerged which reflect qualitatively different responses—for example, attitudes of the Canadian respondents did not appear to vary with the degree of subjective attachment, as reflected in the Term variable, but there is no obvious link between this difference and a theory of constitutional rights as reference points. The Canadian and American respondents reacted similarly to variation in the purpose of the government taking. They were indistinguishably more positive about government’s moral justification for that action when the purpose was building a hospital than for other purposes. Their responses were also indistinguishable in the extent to which they attributed good motives to a government making an expropriation demand. Both Canadian and American respondents found government takings for unspecified uses or for commercial development (a mall) to be somewhat immoral—a substantially more negative assessment than for the more evidently “public” purpose of a hospital. Considered in these broad terms, the data does not strongly support the hypothesis that
the difference in the public law approach to property rights in Canada and the US will be reflected in distinct differences in how individuals in the two countries respond to intrusions on their rights.

Some of the results, however, are more supportive of the hypothesis that individual constitutional property rights reflect or shape such individual responses. Surprisingly, the Canadian respondents felt substantially worse than their US counterparts about being asked to move, and were less convinced that it was morally right for them to move—despite being, if anything, significantly more convinced that the move would benefit the community. This more negative individual response may reflect the absence of constitutional entrenchment of a right to property. The US constitutional right to property makes it clear that every individual is equally protected from (and equally exposed to) government taking of property. The absence of any such universal reference point in Canadian law may heighten the sense that an individual is being singled out or imposed on when a government in Canada takes her property. This also might help explain the more negative individual feelings about expropriation in the Canadian respondents.

The results for the mall takings scenario may also provide some support for the importance of a constitutional right as a reference point. Canadian respondents felt significantly worse about moving and less convinced that moving was moral than their American counterparts. This is consistent with a heightened sense of individual vulnerability among Canadians in the absence of a constitutional rule. However, the respondents in the American study were statistically significantly more negative than the Canadian respondents about government’s moral justification for taking the property if it was to be used for a mall. This

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97. Conceivably, the younger cohort in the Canadian sample may also feel more strongly about issues in general, although their relative lack of experience in owning real property might be expected to have a contrary effect compared with the US sample.

98. Although this is a highly debatable point in fact, the form of the constitutional constraint may generate an intuitive expectation or reflect the aspiration that such equality of treatment will result.

99. Some indirect evidence supportive of this hypothesis is the finding that the control for ethnic minorities is significantly associated with higher demands for compensation in the logit regressions. One might expect minorities to have fears of being singled out, and we do see a result consistent with the translation of such a feeling into higher demands for financial compensation.
is consistent with the form of the US constitutional right in its heuristic sense, as a mall is less clearly a “public use” of the form that permits government to take property than the alternatives. In Canada, once again, there is no similar legal reference point that would limit the type of uses for which government could expropriate property. While the Canadian respondents did react negatively to the mall use, their slightly warmer response to it in comparison with the American respondents is consistent with a role for constitutional property rights as a reference point for American respondents.

A similar argument might be made about the qualitatively different effect of the Term variable on attitudes in Canada and the US. The long-term occupation of the vignette property may not only stand in for subjective attachment to it, but also help to consolidate an understanding of the property as nearer to an intuitive core of “private property” for the respondents. As the US constitutional right protects “private property” from government encroachment, the longer term may be more likely to trigger reference by Americans to the constitutional right as a bar to government interference. This might help to explain their relatively greater sensitivity to Term, and their lower assessment of government’s moral justification and motives for the expropriation than Canadian respondents in the long term condition.

The findings set out above are consistent with the hypothesis that public law, in the form of a constitutional right to property, can play some role in explaining individual responses to proposed expropriation, but they by no means support the claim that this reference dependency is the dominant force in explaining those responses. Despite the clear difference in the constitutional status of property rights in Canada and the US, the responses by individuals in the Canadian and American surveys are too similar to conclude that this difference has led to any striking variation in attitudes towards expropriation in the two countries.

Conclusion

Behavioural economists have begun to show empirically that individuals may have preferences that are contingent on reference points. Economists now take seriously the idea that culture and context may operate as important variables in modeling the preferences and choices
of individuals. In operationalizing these new theories of individual and collective choice and welfare, the question of how to establish the relevant reference points or cultural state variables looms large. The results of the simple experiment reported in this paper suggest that caution is required in looking to “first order” differences in formal legal systems, at least at the level of constitutional law, as a way to answer that question. Similarly, if the normative goal is to “reset” individual reference points, or cultural state variables, then the results of this experiment raise doubts about the potential for achieving this through the implementation of constitutional rights.

The experimental design for this study—relying on comparison with the published results of an American survey—constrains the analysis in a number of ways. The study was focused on a particular type of property (real, residential) and a particular type of government intervention (direct expropriation). Despite the constitutional differences, similar levels of legal protection exist in Canada and the US at a more “operational” level, and this may help explain why the survey responses in the two countries were similar. The results of this study do not rule out the possibility that law might play a role in shaping individual preferences at an operational level, and that differences in the hierarchical status of legal rules (i.e., whether they are constitutional or statutory rights) matter less than the rule’s functional content and history in shaping individual expectations.

Another problem with the current experimental design in this study lies in the inherent difficulty of fully controlling for differences in sample composition, recruitment methodology and survey implementation. Even minor differences in these respects can generate effects in the data that may influence the results. The relatively small size of the Canadian sample and the lack of balanced sample sizes in both studies are also not ideal.

Further examination of the potential influence of the constitutional difference in property protection between Canada and the US might expand the scope of property rights to different types of property, to test, for example, whether a common affinity for “home” lies behind the similar responses in this study. The nature of government intervention might also be expanded to include regulatory encroachment on property rights. The US constitutional property right sometimes requires compensation for this type of “regulatory taking”, while the lack of constitutional
property rights in Canada have generally been a barrier to claims for compensation. The constitutional difference in the status of property may be more influential in this “regulatory takings” setting, when it is associated with more practical difference in outcomes across Canada and the US. Ideally, future studies would administer methodologically identical surveys to representative Canadian and American samples, potentially incorporating additional experimental variation to enhance the range of causal conclusions that could be drawn from the results. The current study’s results raise a number of questions and suggest potential for further work to fill in gaps in our understanding of the relationship between legal institutions and individual preferences and attitudes.

Despite the limitations in both the Canadian and American studies compared in this paper, the initial results remain interesting and somewhat surprising, as they do not seem to confirm the stereotypical view that Americans are more individualistic and more attached to private property than Canadians. The results provide an initial window into the factors that might influence the choices and attitudes of Canadians faced with government expropriation of their property. Canadian respondents appeared to resist expropriation and to require “bonus” compensation in addition to the replacement for their homes in order to be willing to move voluntarily. The size of that compensation premium was systematically influenced by how long the respondents had (hypothetically) owned the property in question; those in long-term occupation were less willing to move, and demanded very high levels of compensation as a premium. In terms of assessing “just compensation” for expropriation, the results suggest that market value compensation would not have satisfied most respondents, particularly those with a longstanding connection to the property.100

The nature of government’s proposed use for property it expropriates did not appear to strongly influence the level of compensation that the Canadian respondents required to give up their property, but the government’s objectives for the use of the property did appear to influence attitudes toward the use of expropriation powers. Canadian respondents

100. While the survey does not directly incorporate this measure, the structure asks for compensation required above that of the provision of an equivalent replacement property nearby. By construction, this property would stand in for the “fair market value” of a respondent’s home in most assessments.
appeared to more positively regard the morality of government’s demand for their property, the benefit to the community from the exercise of expropriation powers, and government motives when a clearly “public” use of the property was proposed. In contrast, attitudes are more negative when government takes private property without a specific objective or to transfer it to a private party. These results suggest that it is not simply the “fact” of expropriation and the loss of their property that shape the attitudes of individuals toward the government’s power of expropriation, but also the process that it followed. Where individuals know the objectives and the objectives are of a public nature, Canadian respondents appear to regard expropriation as more legitimate.

In terms of these general influences, the responses of Canadian and American respondents to government expropriation of their property are very similar. The effect of the stark difference in constitutional treatment of property rights between Canada and the US largely disappears when we look at the evidence on individual choices and attitudes generated in the experiments reviewed in this paper.