Explaining Mass Support for Agricultural Protectionism: Evidence from a Survey Experiment During the Global Recession

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Abstract Why are citizens in advanced industrialized countries willing to accept high prices for agricultural products? Conventional wisdom suggests that agricultural interests secure government protection because producers are concentrated and better politically organized than diffused consumers. Due to its focus on producer capacity for collective action, however, the literature fails to account for the high levels of mass support for agricultural protectionism in advanced industrialized nations. This article presents new evidence from a survey experiment in Japan conducted during the recent global recession (December 2008) that accounts for this puzzle. Using randomly assigned visual stimuli, the experiment activates respondents' identification with either producer or consumer interests and proceeds to ask attitudinal questions regarding food imports. The results suggest that consumer priming has no reductive or additive effects on the respondents' support for liberalizing food imports. Surprisingly, producer priming increases respondents' opposition to food import, particularly among those who fear future job insecurity. We further disentangle the puzzling finding that consumers think like producers on the issue of food import along two mechanisms: "sympathy" for farmers and "projection" of their own job insecurity. The results lend strong support to the projection hypothesis.

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Why are citizens in advanced industrialized nations willing to accept the high price of agricultural products? Despite a massive decline in the number of agricultural workers and active farmland over time, agricultural protectionism is alive and well among developed economies.¹ The Organization for Economic Cooperation and Development (OECD) estimates that, on average, consumers in advanced industrialized countries spend 10 percent of their annual consumption on agricultural products to support local farmers. In countries such as Switzerland, Norway, Japan, and South Korea, more than 40 percent of consumers' expenditures on domestically produced commodities went to support farmers during the worldwide recession in 2009.²

Not only are the actual levels of agricultural protection high among OECD countries, but a series of public opinion surveys, which directly measure individual preferences for regulating food imports, suggests that around half of the citizens seem to be willing to bear this cost even during a global recession. Forty-three percent of U.S. citizens in March 2009 indicated "it is the wrong thing" for the Obama administration to cut down agricultural subsidies, while 44 percent said they think "it is the right thing."³ Fifty percent of European respondents in the Eurobarometer (fall 2007) supported the status-quo level of tariffs and quota protection for agricultural commodities, while 36 percent opposed it.⁴ A little more than 55 percent of Japanese citizens in a nationally representative survey we conducted in February 2009 agreed with the statement "We should not accept import liberalization of agricultural products in order to protect Japanese agriculture," while 37.8 percent believed "We should accept import liberalization of agricultural products in order to maintain Japanese manufacturing export."⁵ In sum, consumers appear to favor, rather than simply tolerate, agricultural protection.

Two common explanations for agricultural protectionism are unhelpful in making sense of this puzzle. The first focuses on the collective action capacity of interest groups: producers (that is, farmers) are concentrated and better politically organized than diffused and unorganized consumers.⁶ The second focuses on political mobilization by elites: legislators exchange trade protection and subsidies for rural and agricultural votes.⁷ Due to its focus on producer power, however, the literature simply makes assumptions about consumers' preferences for free trade: consumers want free trade but cannot act on it due to the collective action prob-

1. See Davis 2003; Gawande and Hoekman 2006; and Park and Jensen 2007.

2. OECD 2009. The estimate is a percentage of Consumer Support Estimate (CSE) per total expenditures on domestically produced commodities. CSE is "an indicator of the annual monetary value of gross transfers from consumers of agricultural commodities, measured at the farm gate (first consumer) level, arising from policy measures which support agriculture." Ibid.

3. Pew Research Center 2009.

4. European Commission 2008.

5. Data is available at (http://www.globalcoe-glope2.jp/wcasi/data.html). Accessed 28 April 2011.

Farmers constitute 3.9 percent of the total respondents; among farmers, 90 percent support protectionism. 6. Olson 1965.

7. See Gawande and Hoekman 2006; Grossman and Helpman 1994; Kabashima 1984; Magee, Brock, and Young 1989; Rogowski and Kayser 2002; and Park and Jensen 2007.

lem. The two conventional accounts do not help us understand why the public seems to be willing to accept high-priced agricultural products to support farmers.

This article presents new evidence from a survey experiment in Japan conducted in December 2008 that challenges the assumption of free-trade-favoring consumers. The experiment randomly assigns visual stimuli to activate respondents' identification with either producer or consumer interests and proceeds to ask attitudinal questions regarding food imports. That is, we primed respondents to think about their occupational or consumption interests before soliciting their attitudes toward food import. The results suggest that consumer priming has no systematic effect on respondents' attitudes toward food import. Surprisingly, the producer priming increases respondents' opposition to food import, particularly among those who fear for their future job security.

We further test two possible mechanisms to explain why thinking about jobs and production activities makes respondents more supportive of agricultural protectionism: "sympathy" for farmers and "projection" of their job insecurities onto farmers. The results lend strong support to the projection hypothesis: those who fear future job insecurity and loss of income are the ones who become more supportive of agricultural protectionism with the activation of a producer perspective. This emergence of a "coalition of losers" is paradoxical because workers with high job insecurity should be the prime beneficiaries of cheaper food imports.

Our results help us solve the paradox of persistent mass support for agricultural protectionism in the midst of the worldwide recession. They also encourage scholars to move beyond the dichotomous conceptualization of producer and consumer interests in the political economy literature and pay due attention to why consumers often align with producers to support protectionism even when doing so imposes a financial burden. Our finding of a "coalition of losers" that cross-cuts producer and consumer interests advances the long-standing research on coalition politics in the global economy that mostly focuses on class or sectoral alliance.⁸ Our approach echoes recent research by Mansfield and Mutz, which demonstrates that, due to exposure to media and the elite discourse on trade's effect on the national economy, U.S. citizens form their attitudes toward trade sociotropically rather than based on individual occupational profiles.⁹ Our work differs from theirs by theorizing how citizens' perceived similarities and differences with other sectors determine their attitudes toward protecting a declining sector and by paying attention to consumer interests in the global economy.

Beyond the literature on trade policy preferences and coalitions, the results have broader implications for the study of inequality and redistribution in the global economy, preference formation of the mass public on issues of economic policy, and people's formation of "self-interest" and inferences about others' needs in a social context.

^{8.} See Gourevitch 1986; Rogowski 1989; and Hiscox 2002.

^{9.} Mansfield and Mutz 2009.

Why Experiment? Priming Without Framing

While standard trade literature assumes consumers' preference for free trade, the emerging research suggests various parameters beyond price sensitivity that make some consumers more protectionist than others: consumption patterns,¹⁰ safety and quality concerns,¹¹ ethical concerns,¹² the love of variety,¹³ and community and family concerns.¹⁴ The complexity of consumer preferences poses several major issues that have stalled inquiry into how producer and consumer interests shape trade policy. The first is the dual—and often conflicting—perspectives that citizens have toward globalization as producers and consumers. Because the majority of citizens engage in both production (that is, income-earning) and consumption activities, a key question is not whether consumers' interests matter more than producers'—we need to ask whether citizens' support for agricultural protection-ism differs when they assess their positions in the global economy as producers or consumers.¹⁵ This question calls for an experimental research design that randomly primes citizens to think about globalization from the perspective of a producer or consumer.

Second, in light of studies that suggest consumers' preferences are indeterminate and complex, we should not frame respondents to think about the positive or negative consequences of food import when we ask about their attitudes toward it. For instance, Hiscox's framing experiments gave a different introductory statement to randomly assigned treatment groups: "Many people believe that increasing trade with other nations creates jobs and allows Americans to buy more types of goods at lower prices" or "Many people believe that increasing trade with other nations leads to job losses and exposes American producers to unfair competition."¹⁶ This framing potentially poses a double-barreled problem because it simultaneously primes respondents to think about trade from both consumer and producer perspective and frames them to think of trade's positive or negative distributional consequences. Instead, we need to design an experiment that primes respondents to think about food import from a consumer or producer perspective without framing its distributional consequences.

Research Design and Method

We conducted an online survey experiment in Japan with a sample of 1,200 respondents between the ages of twenty and sixty-five during the first week of December

- 10. See Baker 2005 and 2009.
- 11. See Vogel 1999 and Kono 2006.
- 12. See Ehrlich 2010; Hiscox and Smyth 2008; and Maclachlan 2002.
- 13. See Krugman 1980; and Broda and Weinstein 2004.
- 14. Goldstein, Margalit, and Rivers 2008.
- 15. Naoi and Kume 2010.
- 16. Hiscox 2006.

2008, when media coverage of the world financial crisis and the rise of unemployment among temporary workers was extensive.¹⁷ Japan is an appropriate case for our research because the public strongly supports agricultural protection despite the fact more than 40 percent of food expenditure goes to support farmers and the prevalent form of this protection is price support, which directly burdens consumers.¹⁸ To understand the sources of support for agricultural protectionism, we randomly assigned visual stimuli to three experimental groups. The experiment consisted of two groups that received the treatment ("stimulus") and another control group without any stimulus (400 respondents each).

The producer-priming group was shown three photographs—a typical whitecollar office, a car factory, and rice field. The images were chosen to represent three major sectors of the economy (service, manufacturing, and agriculture) that would activate respondents' consciousness as producers (or, their occupational interests). *The consumer-priming group* was also shown three photographs—a supermarket with food, a consumer electronics retail store, and a large-scale casual clothing store. These images encompass three areas of basic consumer goods that citizens purchase regularly regardless of their income, gender, family status, and age. These visual stimuli were intended to activate respondents' consciousness as consumers. The control group received no stimulus. The treated and control groups were balanced in their key demographic characteristics such as age, gender, income, and respondents' self-assessed difficulty in finding a comparable job, as Table 1 shows.

Using images to prime respondents has two advantages over framing experiments that supply respondents with opinions about how trade affects consumers and producers.¹⁹ First, priming differs from framing in that the former makes some issues more salient than others and thus influences the standards by which the subject is evaluated,²⁰ while framing characterizes issues negatively or positively.²¹ This characteristic of priming allowed us to manipulate respondents' "standards" by which food import is judged (that is, as a producer or consumer) without imposing on them the judgment itself (that is, food import is good or bad for producers/consumers). This was critical for the purpose of our study since we do not yet know whether activation of a consumer perspective uniformly leads to lower or higher support for agricultural protectionism. Instead, the visual stimuli simply primed respondents to think of themselves as consumers or producers. Second, our visual stimuli did not explicitly convey information either about trade or globalization. This was appropriate for the purpose of our study because not all production and consumption activities are linked, in reality or in citizens' minds,

20. Iyengar and Kinder 1987, 63.

^{17.} The representativeness of our sample is checked by asking the exact same questions on attitudes toward food import in a nationally representative GLOPE survey conducted during February 2009. (http://www.globalcoe-glope2.jp/wcasi/data.html). Accessed 28 April 2011.

^{18.} Davis and Oh 2007.

^{19.} Hiscox 2006.

^{21.} Scheufele 2000.



Note: The first three photos were used for the producer-priming. Before showing the photos, we asked, "Please carefully look at the photos below and answer the following questions" (translated by the authors). Photo Q2 is a follow-up, enforcement question for the first photo: "In what sector do you think people at this office work?" to which respondents choose from finance, manufacturing, publishing, public service, or other.

Source: For the first (white-collar office) and the third (harvesting) photos, Copyright © Kenji Hall-Creative Commons Attribution Licensed. For the second photo (car factory), Copyright © Chang-Ran Kim.

Producer priming (pictures 1, 2, and 3)

to trade or globalization. After the treatment, we posed attitudinal questions about food import and general trade issues. The survey instruments are described in the results section.

The potential weakness of priming using visual images is uncertainty about whether these visual images indeed achieve the intended effects—in this context, making respondents think about jobs or consumption.²² In order to ensure that respondents indeed received the treatment, we embedded the following enforcement questions and direct test of priming effects in designing our survey.²³

■次の写真をよく見て以下の質問に答えてください。

^{22.} Framing by words is not free from this uncertainty either because a word such as *agriculture* can provoke different meanings and associations for different respondents.

^{23.} Political methodologists have been advocating that scholars directly check framing/priming effects ("manipulation check") instead of inferring them from the final survey responses. This advocacy began



Note: The first three photos were used for the consumer priming. Before showing the photos, we asked, "Please carefully look at the photos below and answer the following questions" (translated by the authors). Photo Q5 is a follow-up, enforcement question for the first photo: "What type of grocery shop do you think this is?" in which respondents choose from a small mom-and-pop shop, convenience store, an organic and natural food store, a large supermarket, or other.

Consumer priming (pictures 4, 5, and 6)

First, we asked a follow-up question immediately after showing each image that drew respondents' attentions to production versus consumption activities. For example, after showing the picture of car factory, we asked: "What type of car do you think they are producing?" Respondents choose from five options such as a racing car, a hybrid car, or a regular car. After showing the photograph of a supermarket, we asked, "What type of grocery shop do you think this is?" in which respondents

recently (Horiuchi, Imai, and Taniguchi 2007) and the majority of published survey experiment works in political science have continued to indirectly infer from survey responses how framing/priming worked. An exception to this is Dunning and Harrison 2010, which provides a manipulation check that is similar to our enforcement follow-up questions. This article is one of the few that embedded both an enforcement check and a direct test of priming in the survey experiment.

choose from five options including a large supermarket, an organic and natural food store, and small mom-and-pop shops. The idea is not to test the facts about these images, but rather to ensure that respondents see these photos and think of them either from the job-related or the consumption-related perspective. More than 70 percent (for the white-collar office photo) to 96 percent (for the rice field image) of respondents converged on the same answers to these questions, confirming their reception of the stimuli.

Variables	Producer	Consumer	Control	
age over 50	0.368	0.363	0.363	
	(0.483)	(0.481)	(0.481)	
COLLEGE & BEYOND	0.353	0.405	0.408	
	(0.478)	(0.492)	(0.492)	
FEMALE	0.500	0.495	0.490	
	(0.501)	(0.501)	(0.501)	
LOW INCOME	0.280	0.285	0.260	
	(0.450)	(0.452)	(0.439)	
HIGH INCOME	0.183	0.238	0.210	
	(0.387)	(0.426)	(0.408)	
DIFFICULTY FINDING A JOB	0.670	0.693	0.693	
	(0.471)	(0.462)	(0.462)	
SOCIAL NETWORK	0.369	0.408	0.348	
	(0.483)	(0.492)	(0.477)	
PROTECTIONIST INFO	0.253	0.235	0.255	
	(0.435)	(0.425)	(0.436)	

TABLE 1. The balanced demographics of three experimentgroups

Notes: Table lists mean values with standard errors in parentheses.

Second, after the treatments and attitudinal questions about food import, we also conducted a direct test of priming effects. We asked respondents to take positions on whether they think mass media tends to side with producers or consumers in their reporting.

Respondents answered on a five-point scale: 1, consumers; 2, more or less consumers; 3, can't say one or the other; 4, more or less producers; and 5, producers. The idea is to measure respondents' strength of identification with producer or consumer interests by using respondents' perception about media reporting as an anchor ("benchmark"). Without this anchoring vignette, the comparability of responses on a conceptual question such as "identity" is in question.²⁴ We infer that those with strong identification with producer interests are more likely to think that the media tends to side with consumers (that is, media should report more from a producer perspective) and those with strong identification with consumer interests are more likely to think that the media tends to side with producers (that is, media should report more from consumer perspective).

If our priming worked in the way we suggested, we would expect to see that (1) producer priming increases the proportion of respondents who think that the media takes consumers' side, and consumer priming increases the proportion of respondents who think that media takes the side of producers compared to the control group;²⁵ and that (2) the proportion of neutral responses ("can't say one or the other") is higher in the control group than the producer- or consumer-priming group. Figure 1 summarizes the priming effects among three subgroups of respondents who strengthened their producer identity with the producer treatment.²⁶ The three groups turned out to be the respondents with high job insecurity: the low-income group, factory and construction workers, and retail workers.²⁷ They constituted 48 percent of our sample. The test shows that our priming worked in expected directions for all of the three subgroups. Producer priming increased the respondents' identification with producers and the substantive impact ranged from an increase of 7.1 percentage points (low-income group) to 19 percentage points (retail workers). Consumer priming also increased the respondents' identification with consumers in all three subgroups, and the substantive impact ranged from 2.9 percentage points (retail workers) to 14.1 percentage points (factory and construction workers).²⁸ The proportion of neutral responses was substantially higher for the control groups than the treatment groups for all three subgroups. Thus, the visual images we used had the intended priming effects.

The Results: Aggregate Effects of Priming

Figure 2 (parts a and b) summarizes the distribution of responses for questions on food imports and general trade. The first question was "Food import from foreign countries has been increasing in the past. What is your opinion on this?" and the

25. We assumed that respondents' predisposition toward media was randomly distributed across the three experimental groups. Our interests strictly focused on how respondents' perception toward media reporting differed from a control group when they viewed the treatments.

26. The results for the three groups are presented either because (1) the difference-in-means tests showed a statistically significant difference between the producer-treatment groups and the control groups (factory and construction workers and retail workers), or (2) the probit analysis suggested that belonging to a given subgroup significantly strengthened producer identity when viewing the producer treatment (for example, low-income group).

27. Subgroup analysis is appropriate as the effect of priming is heterogeneous across subgroups ("treatment heterogeneity"; Horiuchi, Imai, and Taniguchi 2007). Retail workers constitute a hard test because the producer-priming photo does not contain an image of retail workers and the consumerpriming contains three photos of retail stores. These photos of retail stores could potentially provoke retail workers' identification with producer interests undermining the effect of consumer priming. Yet retail workers increased their identification with producers when viewing producer images.

28. The results of difference-in-means tests are discussed in the note to Figure 2.



Note: The x-axis shows the three experiemntal groups and the y-axis shows the proportion of respondents in each response category to a question on whether they think the media sides with producers or consumers. The dark gray bar indicates the proportion of respondents in "media sides with consumers (that is, identification with producer)." The numbers in the bar graphs are the percentage of respondents in each response category. Difference-in-means tests for mean estimates suggested that the difference between producer treatment and the control groups was statistically significant at 0.045 (factory and construction workers), 0.28 (low income), and 0.047 (retail workers).

FIGURE 1. Substantive impact of priming on respondents' identification with producer versus consumer in three subgroups of respondents (%)

last was "Import from foreign countries has been increasing in the past. What is your opinion on this?" Respondents chose answers from a five-point scale (very good, good, can't say one or the other, bad, and very bad).²⁹ For each experimental group, a black bar describes the proportion of protectionist responses ("bad"

29. Note that this question asks respondents' opinion about "increasing food import" not about protecting agriculture or farmers. We chose this form of question, instead of "trade policy" questions (for example, asking respondents' opinions about subsidies, tariffs, or new limits on import) for three reasons: (1) it does not directly remind respondents about "jobs" (theirs or farmers) or "consumption," (2) and "very bad"), a white bar describes the proportion of neutral responses, and a gray bar describes the proportion of respondents that supported increasing food imports ("good" and "very good").



Note: The x-axis shows the three experimental groups and the y-axis shows the proportion of total respondents (%) that chose each answer. The difference-in-means tests for protectionist responses (%) showed that the difference between producer treatment and the control groups for food import issue was 0.09(0 < x < 1, standard error 0.035) and statistical significance at PR(ITI>ItI) = 0.011. The difference between consumer treatment and the control groups was 0.01 (standard error 0.035) and was not statistically significant.



The figure shows that, in all groups, the proportion of protectionist responses roughly doubled for the issue of food import compared to the issue of general trade. This is counterintuitive in light of the two conventional approaches, one emphasizing the individual occupational profiles of respondents and the other looking at their ideological predisposition as determinants of trade attitudes.³⁰ The occupational approach would predict a higher proportion of protectionist respondents in the issue of general trade than the issue of food import since food import negatively affects the jobs and wages of farmers only, which constitute 0.7 percent of our sample. The ideological approach would predict that respondents exhibit sim-

the wording is less technical than asking about "tariffs" or "subsidies," and thus is better suited to solicit a gut reaction from the public, and (3) it parallels the survey instrument we used for the general trade issue that is similar to the one that was used for Pew Global Attitudes Survey (Pew Research Center 2009) and Hiscox 2006.

^{30.} See O'Rourke and Sinnott 2001; Hainmueller and Hiscox 2006; and Scheve and Slaughter 2001.

ilar ideological predisposition for general import of goods and import of food. Yet, respondents clearly viewed general import of goods differently from food imports: more than a half of respondents across the three groups thought increasing food import is "bad" or "very bad." Why?

Possible explanations for stronger opposition to food import are protectionist sentiments that consumers might have such as food nationalism, safety and quality concerns, and food security concerns (for example, food self-sufficiency ratio), which have been all observed in Japanese elite discourse.³¹ Yet, these accounts would predict that consumer-priming increases opposition to food import. Contrary to this prediction, Figure 1a suggests that consumer priming does not provoke higher or lower levels of opposition to food import than in the control group. On the other hand, producer-priming increases opposition to food import by 9 percentage points compared to the control group and the difference is statistically significant at the 5 percent level.³²

This leads to two questions. First, why does the activation of a producer perspective lead to higher support for agricultural protectionism? Second, why do citizens think of agricultural trade differently from general trade? These questions force us to think beyond how individuals perceive their own interests, and pay attention to how they perceive the interests of "others." Because our question concerns an uncompetitive sector in the economy, studies on mass support for income redistribution provide a useful starting point.

Disentangling the Puzzle of Consumers Thinking Like Producers

We disentangled this puzzle along two possibilities suggested by experimental studies on mass support for income redistribution: sympathy in the public for "poor" and "hardworking" people (in this case, farmers), and the public's projection of their own job insecurity onto a symbolic declining industry (that is, agriculture). Both mechanisms forced us to move beyond occupational theories of trade policy preferences, based on Stolper-Samuelson and Ricardo-Viner models, which derive individual policy preferences from their occupations' relative positions in the international economy.³³ Instead, we considered how individuals perceive other occupations or sectors (that is, agriculture) when forming their attitudes toward trade.³⁴ To do so, we analyzed which subgroups of respondents were sensitive to producer and consumer priming and identified the direction of their attitudinal differences among the three experimental groups.

31. See Vogel 1999; Maclachlan 2002; and Godo 2006.

^{32.} Difference-in-means test suggest that the 9 percentage point difference (0.09) has standard error of 0.035 and is statistically significant at PR(|T| > |t|) = 0.011.

^{33.} See Stolper and Samuelson 1941; and Samuelson 1971.

^{34.} An alternative explanation is food nationalism. We tested the effect of respondents' levels of exposure to protectionist discourse on food nationalism, safety and quality concerns, and food security and found no effects.

Sympathy

One possible explanation for the puzzle is that producer priming provokes agricultural protectionism due to the sympathy that consumers have for farmers: the dominant occupational image of farmers is that they work hard for low pay in a declining industry. Indeed, despite the fact that the household income of farmers has exceeded that of the average employee since 1975,³⁵ sociologists have found that farmers' "occupational prestige scores," in which citizens ranked the socioeconomic prestige of more than eighty occupations since 1955, have been extremely stable and low throughout the 1990s.³⁶ Citizens might perceive agricultural protectionism as a redistributive policy.³⁷

Experimental studies also lend support to this intuition by showing that the level of respondents' income is only a partial predictor of attitudes toward redistribution. Survey experiments suggest that public support for redistribution increases when the public sympathizes with the recipients and feel that they "deserve" it due to bad luck and despite hard work.³⁸ Lu, Scheve, and Slaughter also demonstrate that altruism accounts for why low-skill and labor-intensive industries, such as agriculture, receive high levels of protection across countries with different factor endowments, such as the United States and China.³⁹

In order to identify whether sympathy is a source of support for protectionism, we asked the respondents to choose three words that characterized their images and feelings toward producers and consumers before the respondents received the visual stimuli.⁴⁰ Among twenty word choices, the top four for producer images were "responsibility" (48.3 percent), "sweat" (48.1 percent), "rural" (43 percent), and "factories" (36.7 percent). On the other hand, the top four for consumer images "money" (57.9 percent), "citizens" (46.0 percent), "information" (28.6 percent), and "urban" (27.7 percent). We constructed a variable, sweat, that takes a value

35. See Ministry of Agriculture, Forestry, and Fishery various years; and Ministry of Internal Affairs and Communication various years.

36. See Naoi 1979; and Hara 1999. The occupational prestige score for farmers (*jisakunou*) is 51, 43, 45, 46 for years 1955, 1965, 1975, and 1995 respectively. These scores are comparable to taxi drivers, workers at train stations (*ekiin*), and hair stylists (*riyoushi*) but much lower than white-collar employees.

- 38. Harris-Lacewell, Imai, and Yamamoto 2009.
- 39. Lu, Scheve, and Slaughter 2010.

40. The question is: "We call those who produce manufactured and agricultural products as well as those who provide service to customers 'producers' (*seisansha*), and call those who purchase these goods and consume 'consumers' (*shohisha*). Among the twenty words below, please choose three images or feelings you have about producers and consumers [three each]: trust (*shinrai*), suspicion (*utagai*), urban (*tokai*), rural (*inaka*), money (*okane*), leisure (*goraku*), responsibility (*sekini*), information (*jouhou*), weekdays (*heijitsu*), off days (*kyujitsu*), sweat (*ase*), factories (*koujou*), government (*seifu*), citizens (*shinin*), progressive (*kakushin*), conservative (*hoshu*), men (*dansei*), women (*josei*)."

^{37.} See Kabashima 1984; and Calder 1988.

of 1 if a respondent chose "sweat" as one of the three words to describe the producer images and 0 otherwise.⁴¹

The second variable is the respondents' attitudes toward redistribution. Our variable REDISTRIBUTION takes a value of 1 if a respondent answers "agree" or "somewhat agree" to the following question: "What is your opinion about a policy to enhance the redistribution of wealth from the rich to the poor using taxation and the social insurance system?" FARM-TO-TABLE is equal to 2 when respondents have used a "farm-to-table" service to buy food directly from farmers several times in the past year, 1 when they have used the service once or twice, and 0 otherwise. We also tested a popularly believed argument that consumers support agricultural protectionism because their family members are engaged in farming. SOCIAL NETWORK takes a value of 1 if a respondent has a family member or relatives who engage in farming, including part-time farming, and 0 otherwise.⁴²

Projection

The second hypothesis we test is that citizens might support agricultural protectionism because they project their own job insecurities onto a symbolic and declining industry, agriculture. Projection is a concept developed in social psychology to understand how people make inferences about others using their own mental states as a benchmark.⁴³ Ames develops "projection" and "stereotypes" as two strategies people use to infer what others want.⁴⁴ With lab experiments, he demonstrates that when the perceived similarity between self (that is, a perceiver) and others (that is, a target) is high, respondents are more likely to use projection as a tool to infer others' preferences. On the other hand, when the perceived similarity between self and others is low, respondents are more likely to use stereotypes as a mechanism of inference.

In the context of our research, this means that when the level of respondents' perceived similarity with farmers is high, respondents are more likely to project their own mental states (that is, need for more government assistance) onto what farmers want regarding food import (that is, protectionism). Based on conventional occupational images of farmers found in existing social surveys, we derived three potential similarities that respondents might perceive with agricultural workers: declining industry, high job insecurity (that is, difficulty finding a comparable

^{41.} The word "sweat" symbolizes hard, physical work in Japanese. Alternatively, we also included an interaction term between "sweat" and "rural." The results did not change.

^{42.} Of our respondents, 37.4 percent had family or relatives who engage in part-time or full-time farming.

^{43.} See Ames 2004a and 2004b.

^{44.} See Ibid.

job), and older age.⁴⁵ We expect to see respondents with high job insecurity or perceived risk of income loss in the future show higher support for agricultural protectionism after viewing the producer treatment.

To test the projection hypothesis, we constructed a variable called DIFFICULTY FINDING A JOB that takes a value of 1 if respondents choose "difficult" or "very difficult" to the following question, and 0 otherwise: "If you were to quit your current job, do you believe it would be difficult to find a similar job that pays a comparable salary?" Likewise, older respondents face a higher risk of income loss due to approaching retirement or increasing difficulty in finding their next job. Also, the average age of agricultural workers in Japan is 57.6 for all farmers and 64.6 for farmers whose main source of income is farming.⁴⁶ AGE OVER 50 takes a value of 1 if a respondent's age is over fifty years, and 0 otherwise. We trichotomized job status as three dummy variables: FULLY EMPLOYED for full-time employees, TEMP for part-time and temporary employees, and NO JOBS for the unemployed and those not in the labor force.⁴⁷ We expect TEMP to increase in opposition to food imports when people in this category view the producer treatment.

Introducing Subgroup Heterogeneity

We conducted two sets of analysis. The first was subgroup analyses, in which (1) we compared the proportion of protectionist responses across the three experimental groups for a given subset of respondents, and (2) conducted difference-inmeans tests between the treatment and the control groups. If all the key co-variates are categorical and balanced across the three experimental groups, the subgroup analysis should suffice to test our hypotheses. To supplement the subgroup analysis, the second set of analysis pooled all the data across the treatment and control groups and estimated the treatment effects by interacting the treatment group dummy for each experiment group (0-1) with co-variates for the two hypotheses (sympathy and projection).⁴⁸ The model, estimated by ordered and binomial probit, has the following structure, where *i* is individual respondent, Producer Treatment (PT) is a dummy variable (1 for producer priming, and 0 otherwise), and Con-

45. Hara 1999. In projection research, these perceived similarities are usually recorded before asking respondents to infer the targets' positions. We did not do this, however, due to our concern that the similarity questions could risk priming respondents to think about farmers.

46. Japanese Statistics Office 2008.

47. Ideally, we would want to differentiate unemployed respondents who are looking for jobs and those who are not in the labor force "by choice" (housewives and retirees). This was impossible due to the survey company bundling unemployed and retirees together as one category (7.2 percent of our total sample). We addressed this problem by controlling for housewives and age.

48. All the co-variates, except for PROTECTIONIST_INFO are individual attributes that cannot be changed due to the priming. The priming might affect responses through changing the intermediate variable ("mediation effects;" Imai, Keele, and Yamamoto 2010) such as PROTECTIONIST_INFO. The distribution of responses to PROTECTIONIST_INFO does not differ, however, across the treatment and control groups. The mediation effects appear marginal.

sumer Treatment (CT) is a dummy variable (1 for consumer priming, and 0 otherwise):

Support for Agr Protectionism_i = $\beta_0 + \beta_1 PT_i + \beta_2 CTi + \beta_3 Sympathy_i + \beta_2 CTi + \beta_3 Sympathy_i + \beta_3 + \beta_3 Sympathy_$

 $\beta_4 (PT_i * \text{Sympathy}_i) + \beta_5 (CT_i * \text{Sympathy}_i) +$

 $\beta_6 Projection_i + \beta_7 (PT_i * Projection_i) +$

 $\beta_8(CT_i * \text{Projection}_i) + \text{Controls}_i.$

Table 2 summarizes descriptive statistics for variables used in our analysis and the Appendix discusses control variables included in the probit analyses.

Variables	Observations	Mean	Standard deviation	Minimum	Maximum
AGRICULTURAL PROTECTIONISM	1191	3.604	(0.857)	1	5
HIGH INCOME	1200	0.210	(0.407)	0	1
LOW INCOME	1200	0.275	(0.447)	0	1
age over 50	1200	0.364	(0.481)	0	1
DIFFICULTY FINDING A JOB	1200	0.685	(0.465)	0	1
COLLEGE & BEYOND	1200	0.388	(0.488)	0	1
FULLY EMPLOYED	1200	0.545	(0.498)	0	1
NO JOB	1200	0.294	(0.456)	0	1
TEMP	1200	0.188	(0.391)	0	1
NO FOREIGN TRANSACTIONS	1200	0.646	(0.478)	0	1
SWEAT	1179	0.483	(0.500)	0	1
SOCIAL NETWORK	1170	0.375	(0.484)	0	1
REDISTRIBUTION	1200	3.557	(1.017)	1	5
MARRIED	1200	0.643	(0.479)	0	1
CHEAP SHOPPER	1200	1.956	(1.206)	0	5
CO-OP	1200	0.251	(0.434)	0	1
PROTECTIONIST_INFO	1200	0.248	(0.432)	0	1
FARM-TO-TABLE	1200	1.010	(0.868)	0	2
LDP	1200	0.157	(0.364)	0	1
NO PARTY	1200	0.505	(0.500)	0	1
POLITICALLY ACTIVE	1200	1.128	(1.475)	0	6

 TABLE 2. Descriptive statistics

Results: Sympathy and Projection

Figure 3 shows the results of the subgroup analysis. Overall, the results lend strong support to the projection hypothesis and weak support for the sympathy hypothesis. Among respondents who report that finding a comparable job is "difficult" or

"very difficult," the producer priming increases their support for agricultural protectionism by 14.4 percentage points from 49.8 percent in the control group to 64.2 percent. Disaggregating further, subgroups of respondents with high job insecurity during the current crisis, such as temporary workers and respondents over age fifty, become more protectionist when they view the producer treatment. The magnitude of this effect is substantial, a 17.6 percentage point increase for temporary workers and a 12.1 percentage point increase for respondents older than fifty. These differences from the control groups are statistically significant at the 5 percent level as shown in Figure 3.



*** *p* < .01; ** *p* < .05.

Note: The x-axis shows the three experimental groups. The bars and numbers above indicate the proportion (%) of protectionist responses (increasing food import is "bad" or "very bad") for each group. Table summarizes the results for difference-in-means tests. The numbers in left column indicate the percentage point difference of protectionist responses (0 < x < 1) between producer treatment and the control groups for each subgroup. The numbers in right column indicate the percentage point difference between consumer treatment and the control group. The standard error of estimate is in parentheses. Numbers in figures and table do not perfectly match due to rounding.

FIGURE 3. Projection and sympathy hypotheses: Substantive impact of difficulty finding a comparable job and social network on % protectionist responses

The power of producer priming in mobilizing a protectionist "coalition of losers" is also evident when comparing the benchmark levels of protectionism observed in the control groups. Perhaps due to price sensitivity, respondents with high job insecurity showed a lower level of support for protectionism (49.8 percent) than those with low job insecurity (58.6 percent). Yet, this pattern reversed when they viewed the producer treatment: respondents with high job insecurity became more protectionist (64.2 percent) than those with low job insecurity (50.9 percent).⁴⁹

By contrast, the sympathy hypothesis finds only partial support. Respondents with family or relatives engaging in farming show a 15.5 percentage point higher support for agricultural protectionism after viewing the producer treatment and this difference is significant at the 1 percent level. However, neither producer nor consumer treatment affected other subgroups of respondents for the sympathy hypothesis, such as SWEAT, FARM-TO-TABLE, and REDISTRIBUTION.

Table 3 summarizes the results of an ordered probit and binomial probit analysis. A positive coefficient on an interaction variable indicates that with producer or consumer priming, a given subgroup's support for agricultural protectionism increases. Negative coefficients indicate that, again, interacting with the producer or consumer priming, a given subgroup's support for protectionism decreases. Model 1 estimates the effect of treatments on only the aggregate level of support for protectionism and Models 2 to 5 introduce subgroup heterogeneity to test the two hypotheses.

The results again lend support to the projection hypothesis and weak support for the sympathy hypothesis. Respondents with high job insecurity (DIFFICULTY FINDING A JOB) and temporary workers (TEMP) become more protectionist when they view the producer-priming treatment. This result is robust across the four models (Models 2 to 5). Only in Model 5 with dichotomized support for protectionism (0–1), with producer priming, do respondents with a family member or relatives engaging in farming (SOCIAL NETWORK) show higher support for agricultural protectionism than a control group. In summary, consumers with high job insecurity paradoxically align with farmers to support the high price of agricultural products even though such consumers should be the prime beneficiaries of cheaper food imports.

Control variables find very weak support for Stolper-Samuelson or Ricardo-Viner trade theorems. Income (LOW and HIGH INCOME) has no systematic effects on respondents' attitudes toward food import.⁵⁰ College degrees turn out to have no systematic effects. Respondents whose company or sector of employment does not export, import, or outsource production abroad, are more protectionist. Those who are not employed (NO JOBS) have lower support for protectionism, which is

^{49.} This 13.3 percentage point difference between high and low job insecurity respondents within the producer-priming group is statistically significant at Pr(|T| > |t|) = 0.057.

^{50.} Respondents in the bottom 30 percent of income are no more supportive of agricultural protectionism than a middle-income group. This is due to the heterogeneous nature of "low-income" citizens, which include both respondents with low (part-time workers whose spouses are the main income earners) and high (temporary factory workers) job insecurity. Controlling for job insecurity, low income turns out to have no effect, which is consistent with our projection hypothesis.

	Model 1 ordered probit	Model 2 ordered probit	Model 3 binomial probit	Model 4 ordered probit	Model 5 binomial probit
PRODUCER TREATMENT	0.175	-0.316	-0.090	-0.268	-0.049
	(0.076)**	(0.335)	(0.395)	(0.333)	(0.396)
CONSUMER TREATMENT	-0.039	-0.337	-0.186	-0.266	-0.084
	(0.076)	(0.332)	(0.389)	(0.331)	(0.390)
Projection hypothesis					
PRODUCER * DIFFICULTYJOB		0.302	0.365	0.313	0.403
		(0.170)*	(0.202)*	(0.169)*	(0.202)**
CONSUMER * DIFFICULTYJOB		0.029	0.047	0.009	0.037
		(0.174)	(0.204)	(0.172)	(0.203)
DIFFICULTY FINDING A JOB		0.013	-0.031	0.009	-0.047
		(0.121)	(0.142)	(0.121)	(0.143)
PRODUCER * TEMP		0.395	0.405	0.392	0.417
		(0.202)**	(0.241)*	(0.201)*	(0.242)*
CONSUMER * TEMP		-0.016	0.228	0.003	0.269
		(0.208)	(0.246)	(0.207)	(0.245)
TEMPORARY WORKERS		-0.140	-0.162	-0.098	-0.121
		(0.148)	(0.174)	(0.151)	(0.178)
Sympathy hypothesis					
PRODUCER * SWEAT		0.109	0.119	0.134	0.122
		(0.156)	(0.185)	(0.157)	(0.187)
CONSUMER * SWEAT		0.049	0.144	0.057	0.122
		(0.157)	(0.185)	(0.159)	(0.188)
SWEAT		0.049	0.055	0.029	0.048
		(0.109)	(0.128)	(0.110)	(0.130)
PRODUCER * SOC NETWORK		0.175	0.310	0.175	0.337
		(0.164)	(0.195)	(0.164)	(0.197)*
CONSUMER * SOC NETWORK		0.080	0.037	0.057	0.016
		(0.162)	(0.190)	(0.162)	(0.192)
SOCIAL NETWORK		-0.072	-0.058	-0.075	-0.073
		(0.115)	(0.136)	(0.116)	(0.137)
PRODUCER * REDISTRIBUTION		0.029	-0.047	0.015	-0.064
		(0.077)	(0.091)	(0.077)	(0.092)
CONSUMER * REDISTRIBUTION		0.064	0.009	0.044	-0.021
		(0.077)	(0.090)	(0.077)	(0.091)
REDISTRIBUTION		-0.076	-0.055	-0.065	-0.039
		(0.054)	(0.063)	(0.054)	(0.063)
Demographic controls	No	Yes	Yes	Yes	Yes
Other co-variates	No	No	No	Yes	Yes
Observations	1191	1148	1148	1148	1148

TABLE 3. Individual support for agricultural protectionism

Notes: Standard errors are in parentheses. Models 2 and 4 use a 5-point scale (very good, good, neutral, etc.) as the dependent variable and estimates it with an ordered probit, while Models 3 and 5 dichotomize the 5-point scale to 1 (food import is "bad" or "very bad") or 0 otherwise and estimates it with a binomial probit. Demographic controls include FEMALE, COLLEGE, LOW INCOME, HIGH INCOME, and AGE OVER 50. Other co-variates are discussed in the Appendix. Cut points are not shown. ** p < .05; * p < .10.

consistent with our expectation that respondents who think primarily as consumers prefer lower prices.

Respondents with children are more supportive of food import. This is probably driven by the price sensitivity. Married respondents are more protectionist, controlling for income and whether they have children or not. The finding is consistent with Goldstein, Margalit, and Rivers who argue that married respondents are more protectionist.⁵¹ Co-op members are more protectionist. This finding suggests that the "coalition of losers" between consumers and farmers that we found at the individual level might also exist at the level of organized interest groups.

The political mobilization argument also finds little support. Japan's Liberal Democratic Party (LDP) supporters are no more protectionist than other party supporters. This is contrary to the conventional wisdom that the LDP is pro-farmer, but the finding is in fact consistent with the results of our Lower House legislator survey that LDP politicians are more supportive of globalization and food imports than politicians from its major opposition party, the Democratic Party of Japan (DPJ).⁵² Respondents' level of exposure to elites' protectionist discourse (PROTEC-TIONIST_INFO) and their political activeness (POLITICALLY ACTIVE) turn out to have no systematic effects, either.

Conclusion

Persistent and high public support for agricultural protectionism in developed economies poses a puzzle for occupational and ideological approaches to studying trade policy preferences. These approaches fall short because they do not consider how citizens form preferences over trade policy for other sectors in the economy. What complicates this endeavor further is a duality of interests that citizens have as producers and consumers. Such neglect warrants further study, since trade policy is a powerful tool by which governments redistribute wealth among citizens with diverse occupational and consumption profiles. This article has sought to push this important research agenda forward in three ways.

First, observational studies face a challenge in identifying whether citizens form their opinions about protecting other economic sectors from the point of view of producers or consumers. With a randomized priming-without-framing survey experiment, we were able to disentangle occupational and consumption-related sources of individual attitudes toward food import. Our projection finding forces us to reconsider standard theories of trade policy preferences that are based on individuals' occupational interests in the international economy.

^{51.} They attribute this to married respondents' attitudes toward risk.

^{52. &}quot;Min-Sha Seisaku Shikou Ni Chigai," *Yomiuri Shimbun*, 15 December 2009. In another work, we show that DPJ supporters become more protectionist than the LDP supporters with viewing of the producer treatment. Naoi and Kume n.d.

Second, our projection finding may serve as an important step toward understanding how a coalition of diverse interests emerges in the politics of globalization and redistribution—a missing link between individual preferences and coalitional politics in international political economy. The mechanism of projection gives rise to a new "coalition of losers" between producers and consumers that sustains protection for uncompetitive sectors. This finding will advance the long-standing research on coalition politics in the global economy that mostly predicts class or sectoral alliances such as "the marriage of iron and rye" during Bismarck Germany (1871–1914) where the government protected both landowners and capitalists at the expense of workers (consumers) by politically sustaining the high price of grains.⁵³

Third, we have demonstrated that citizens' attitudes toward globalization and trade can differ dramatically depending on which aspect of their lives (work versus home and social lives) is activated from their multifaceted and often conflicting attributes. Like other studies on the role of framing and information in the formation of public opinion, this finding implies the importance of elites in mobilizing the public. More specifically, our finding suggests that even subtle manipulation to draw citizens' attention to one aspect of their lives can substantially change the landscape of coalitions in the global economy.

A promising line of future research, thus, is to investigate how elites—legislators, bureaucrats, and media—seek to activate the job-versus-consumption-related interests of voters and which groups of voters are susceptible to such elite priming. The general election of 2009 in Japan might provide an opportunity to explore this question as the major opposition party, the DPJ, extensively campaigned to appeal to consumers and improve their quality of lives ("*seikatsu*" and "*kurashi*") and won a landslide victory over the long-standing governing party LDP, which focused its campaigns on "creating jobs."

Another promising line of research is to explore the external validity of our projection finding by bringing this experiment to racially and ethnically diverse societies such as the United States or India. Along the line of observational studies on racial diversity and income redistribution in U.S. cities by Alesina and colleagues, we expect that the projection mechanism is prevalent in more homogenous societies (for example, Japan) than heterogeneous societies (the United States and India).⁵⁴ Another possible line of research is to test the "income threshold" of our projection hypothesis by bringing this research to developing economies with a comparative advantage in agriculture.

Appendix

Building on the existing work on individual attitudes toward globalization and food import, we include the following co-variates for Models 4 and 5 of Table 3.

54. Alesina, Baqir, and Easterly 1999.

^{53.} Rogowski 1989.

LOW INCOME: a respondent in the bottom 30 percent of the individual income distribution.

HIGH INCOME: a respondent in the top 30 percent of the individual income distribution. MID INCOME: the base category.

COLLEGE: equals 1 for respondents who graduated from college or above, and 0 otherwise.

FEMALE: equals 1 for women, and 0 otherwise.

HAVE KIDS: a dummy variable, 1 for respondents with children, and 0 otherwise.

HOUSEWIVES: a dummy variable, 1 for housewives, and 0 otherwise.

CO-OP: a dummy variable, 1 for a member of a consumer cooperative, and 0 otherwise.

LDP and NON-PARTYID: indicate respondents' party identification with then-incumbent Liberal Democratic Party or nonpartisan identification, respectively.

POLITICALLY ACTIVE: an index of political participation that ranges from 0 to 6. This is the sum of the answers (0, not at all; 1, once or twice; 2, several times) to three questions about the frequency of political participation in the past: whether a respondent has been a member of a local candidate-support group (*koenkai*), whether a respondent has helped a candidate run for an election, and whether a respondent has listened to politicians' speeches on the street.

We also include the following novel co-variates.

PROTECTIONIST_INFO: takes a value of 1 if a respondent heard and spoke about all of the following four protectionist terms, and 0 otherwise: "poisoned Chinese dumpling incident (*chugoku doku gyoza jiken*)," "food education (*shokuiku*)," "food sufficiency ratio (*syokuryo jikyuritsu*)," and "locally grown, locally consumed (*chisan chisho*)."⁵⁵ Politicians and the media extensively use these four terms to either raise the barrier to trade or promote domestic production and consumption of agricultural products.⁵⁶ PROTECTIONIST_INFO directly measures respondents' levels of exposure to elites' protectionist discourse on trade policy, rather than proxying it with education.

NO FOREIGN TRANSACTION: takes a value of 1 when the company with which the respondent is employed or the business run by the respondent does not import, export, or outsource its production activities abroad, and 0 otherwise. NO FOREIGN TRANSAC-TION remedies the criticism that the conventionally used ILO occupational classification is not an accurate approximation of skill-level or export versus import-orientation. The self-reported position of a respondent's job provides better data on how citizens perceive their jobs' position in the global economy.⁵⁷

55. We chose these terms by (1) examining the Web sites of members of parliament mentioning "agriculture (*nougyo*)" or "farmers (*nouka*)" and identifying common reasons they mention to make the case for protection; (2) using questionnaires in the Ministry of Foreign Affairs's public opinion surveys on Economic Diplomacy (*Keizai Gaikou no Ishiki Chosa*) conducted in 2004; and (3) reflecting key legislation or policy (FTAs, Food Education Law in 2005) and events (poisoned dumpling in 2008) during the past five years.

56. We use a binary measure, instead of continuous one, due to bifurcation in data distribution.

57. Of the respondents, 16.25 percent report they do not know whether their company or sector imports, exports, or outsources production activities abroad. This finding cautions that the link between respondents' occupations and their attitudes toward globalization is not as obvious as conventionally thought.

CHEAP SHOPPER: an index of the number of items a respondent owns from our list of discount stores and ranges from 0 to 5.⁵⁸ CHEAP SHOPPER captures consumer attributes of the respondents that are generally missing in standard public opinion surveys.

References

- Alesina, Alberto, Reza Baqir, and William Easterly. 1999. Public Goods and Ethnic Divisions. *Quarterly Journal of Economics* 114 (4):1243–84.
- Ames, Daniel R. 2004a. Inside the Mind Reader's Tool Kit: Projection and Stereotyping in Mental State Inference. *Journal of Personality and Social Psychology* 87 (3):340–53.
- 2004b. Strategies for Social Inference: A Similarity Contingency Model of Projection and Stereotyping in Attribute Prevalence Estimates. *Journal of Personality and Social Psychology* 87 (5):573–85.
- Baker, Andy. 2005. Who Wants to Globalize? Consumer Tastes and Labor Markets in a Theory of Trade Policy Beliefs. *American Journal of Political Science* 49 (4):924–38.
- ———. 2009. The Market and the Masses in Latin America: Policy Reform and Consumption in Liberalizing Economies. New York: Cambridge University Press.
- Broda, Christian, and David E. Weinstein. 2004. Variety Growth and World Welfare. American Economic Review 94 (2):139–44.
- Calder, Kent E. 1988. Crisis and Compensation: Public Policy and Political Stability in Japan, 1949– 1986. Princeton, N.J.: Princeton University Press.
- Davis, Christina L. 2003. Food Fights over Free Trade: How International Institutions Promote Agricultural Trade Liberalization. Princeton, N.J.: Princeton University Press.
- Davis, Christina L., and Jennifer Oh. 2007. Repeal of the Rice Laws in Japan: The Role of International Pressure to Overcome Vested Interests. *Comparative Politics* 40 (1):21–40.
- Dunning, Thad, and Lauren Harrison. 2010. Cross-Cutting Cleavages and Ethnic Voting: An Experimental Study of Cousinage in Mali. American Political Science Review 104 (1):21–39.
- Ehrlich, Sean D. 2010. The Fair Trade Challenge to Embedded Liberalism. *International Studies Quarterly* 54 (4):1013–33.
- European Commission. 2008. Europeans, Agriculture, and the Common Agricultural Policy. Special Eurobarometer 294, wave 68.2. Available at (http://ec.europa.eu/public_opinion/archives/ebs/ebs_294_en.pdf). Accessed 28 April 2011.
- Gawande, Kishore, and Bernard Hoekman. 2006. Lobbying and Agricultural Trade Policy in the United States. *International Organization* 60 (3):527–61.
- Godo, Yoshihisa. 2006. Nihon No Soku to Nou: Kiki No Honshitsu. Tokyo: NTT Shuppan.
- Goldstein, Judith, Yotam Margalit, and Douglas Rivers. 2008. Producer, Consumer, Family Member: The Relationship Between Trade Attitudes and Family Status. Paper presented at the Princeton Conference on Domestic Preferences and Foreign Economic Policy, April, Princeton, N.J.
- Gourevitch, Peter. 1986. *Politics in Hard Times: Comparative Responses to International Economic Crises.* Ithaca, N.Y.: Cornell University Press.
- Grossman, Gene M., and Elhanan Helpman. 1994. Protection for Sale. *American Economic Review* 84 (4):833–50.
- Hainmueller, Jens, and Michael J. Hiscox. 2006. Learning to Love Globalization: Education and Individual Attitudes Toward International Trade. *International Organization* 60 (2):469–98.
- Hara, Junnosuke, ed. 1999. *Shakai Kaiso: Yutakasa No Naka No Fubyodo* [Social Stratification: Inequality in the Wealthy Society]. Tokyo: University of Tokyo Press.

58. These stores are: Louis Vuitton, Gucci, Armani, Prada, Chanel, Brooks Brothers, Ralph Lauren, Rolex, Tumi, Uniqlo, Muji, Gap, Ikea, Body Shop, and Aoki. Respondents' ownership of items from the latter six stores are used to construct *Cheap Shopper*.

- Harris-Lacewell, Melissa, Kosuke Imai, and Teppei Yamamoto. 2009. Racial Gaps in the Responses to Hurricane Katrina: An Experimental Study. Unpublished manuscript, Princeton University, Princeton, N.J.
- Hiscox, Michael J. 2002. International Trade and Political Conflict: Commerce, Coalitions, and Mobility. Princeton, N.J.: Princeton University Press.
- ———. 2006. Through a Glass and Darkly: Attitudes Toward International Trade and the Curious Effects of Issue Framing. *International Organization* 60 (3):755–80.
- Hiscox, Michael J., and Nick Smyth. 2008. Is There Consumer Demand for Improved Labor Standards? Evidence from Field Experiments in Social Product Labeling. Unpublished manuscript, Harvard University, Cambridge, Mass. Available at (http://www.people.fas.harvard.edu/~hiscox/ SocialLabeling.pdf). Accessed 5 April 2011.
- Horiuchi, Yusaku, Kosuke Imai, and Naoko Taniguchi. 2007. Designing and Analyzing Randomized Experiments: Application to a Japanese Election Survey Experiment. *American Journal of Political Science* 51 (3):669–87.
- Imai, Kosuke, Luke Keele, and Teppei Yamamoto. 2010. Identification, Inference, and Sensitivity Analysis for Causal Mediation Effects. *Statistical Science* 25 (1):51–71.
- Iyengar, Shanto, and Donald R. Kinder. 1987. News That Matters: Television and American Opinion. Chicago: University of Chicago Press.
- Japanese Statistics Office. 2008. Nougyo Kouzou Doutai Chosa Houkokusho [Report on the Survey of Structural Dynamics of Agriculture]. Available at (http://www.e-stat.go.jp/SG1/estat/List.do? lid=000001058425). Accessed 13 April 2011.
- Kabashima, Ikuo. 1984. Supportive Participation with Economic Growth: The Case of Japan. *World Politics* 36 (3):309–38.
- King, Gary, Christopher J. L. Murray, Joshua A. Salomon, and Ajay Tandon. 2004. Enhancing the Validity and Cross-Cultural Comparability of Measurement in Survey Research. *American Political Science Review* 98 (1):191–207.
- Kono, Daniel Y. 2006. Optimal Obfuscation: Democracy and Trade Policy Transparency. *American Political Science Review* 100 (3):369–84.
- Krugman, Paul. 1980. Scale Economies, Product Differentiation, and the Pattern of Trade. American Economic Review 70 (5):950–59.
- Lu, Xiaobo, Kenneth F. Scheve, and Matthew J. Slaughter. 2010. Envy, Altruism, and the International Distribution of Trade Protection. Working Paper 15700. Cambridge, Mass.: National Bureau of Economic Research.
- Maclachlan, Patricia L. 2002. Consumer Politics in Postwar Japan: The Institutional Boundaries of Citizen Activism. New York: Columbia University Press.
- Magee, Stephen P., William A. Brock, and Leslie Young. 1989. Black Hole Tariffs and Endogenous Policy Theory: Political Economy in General Equilibrium. Cambridge: Cambridge University Press.
- Mansfield, Edward D., and Diana C. Mutz. 2009. Support for Free Trade: Self-Interest, Sociotropic Politics, and Out-Group Anxiety. *International Organization* 63 (3):425–57.
- Ministry of Agriculture, Forestry, and Fishery (MAFF). Various years. *Nouka Keizai Chosa* [House-hold Surveys of Farmers]. Tokyo: MAFF.
- Ministry of Internal Affairs and Communication (MIAC). Various years. *Kakei Chosa* [Household Surveys]. Tokyo: MIAC.
- Naoi, Atsushi. 1979. Shokugyoteki Chiishakudo No Kosei [The Construction of the Occupational Status Scale]. In *Nihon No Kaiso Kozo*, edited by Ken'ichi Tominaga, 434–72. Tokyo: Tokyodaigaku Shuppankai.
- Naoi, Megumi, and Ikuo Kume. 2010. Resisting Protectionism (Take 2): A Survey Experiment on Mass Support for the Open Economy During the Recession. Unpublished manuscript, University of California, San Diego, and Waseda University, Tokyo.

. n.d. Coalition of Losers: Why Agricultural Protectionism Has Survived During the Great Recession. In *Politics in New Hard Times*, edited by Miles Kahler and David Lake. Under Review.

Olson, Mancur. 1965. The Logic of Collective Action: Public Goods and the Theory of Groups. Cambridge, Mass.: Harvard University Press.

- Organization for Economic Cooperation and Development (OECD). 2009. Agricultural Policies in OECD Countries 2009: Monitoring and Evaluation. Geneva: OECD.
- O'Rourke, Kevin H., and Richard Sinnott. 2001. The Determinants of Individual Trade Policy Preferences: International Survey Evidence. In *Brookings Trade Forum: 2001*, edited by Dani Rodrik and Susan M. Collins, 157–206. Washington, D.C.: Brookings Institution.
- Park, Jong Hee, and Nathan Jensen. 2007. Electoral Competition and Agricultural Support in OECD Countries. *American Journal of Political Science* 51 (2):314–29.
- Pew Research Center. 2009. March 2009 Political Survey. Available at (http://people-press.org/report/ 498/obama-approval-slips). Accessed 13 April 2011.
- Rogowski, Ronald. 1989. Commerce and Coalitions: How Trade Affects Domestic Political Alignments. Princeton, N.J.: Princeton University Press.
- Rogowski, Ronald, and Mark Andreas Kayser. 2002. Majoritarian Electoral Systems and Consumer Power: Price-Level Evidence from the OECD Countries. *American Journal of Political Science* 46 (3):526–39.
- Samuelson, Paul A. 1971. Ohlin Was Right. Swedish Journal of Economics 73 (4):365-84.
- Scheufele, Dietram A. 2000. Agenda-Setting, Priming, and Framing Revisited: Another Look at Cognitive Effects of Political Communication. *Mass Communication and Society* 3 (2):297–316.
- Scheve, Kenneth F., and Matthew J. Slaughter. 2001. Globalization and the Perceptions of American Workers. Washington, D.C.: Institute for International Economics.
- Stolper, Wolfgang F., and Paul A. Samuelson. 1941. Protection and Real Wages. *Review of Economic Studies* 9 (1):58–73.
- Vogel, Steven K. 1999. When Interests Are Not Preferences: The Cautionary Tale of Japanese Consumers. Comparative Politics 31 (2):187–207.