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AJAE Appendix for

***Standards as Barriers versus Standards as Catalysts:
Assessing the Impact of HACCP Implementation on U.S. Seafood Imports***

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Note: The material contained herein is supplementary to the article named in the title and published in the American Journal of Agricultural Economics.

Table A: Gravity Model Fixed Effects Estimates of HACCP Impacts on U.S. Seafood Imports, 1990-2004^a

	FIXED EFFECTS Dollar Value of Imported Seafood			FIXED EFFECTS Volume of Imported Seafood		
	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
<i>Time</i>	0.041 ^{***b} (4.64)	0.045 ^{***} (5.49)	0.023 ^{**} (2.45)	0.033 ^{***b} (3.18)	0.038 ^{***} (3.86)	0.021 [*] (1.85)
<i>HACCP</i>	-0.591 ^{***} (-5.92)	-0.443 ^{***} (-4.72)	-0.103 (-1.05)	-0.436 ^{***} (-3.74)	-0.280 ^{**} (-2.53)	-0.023 (-0.19)
<i>GDP</i>	0.599 ^{***} (17.33)	0.440 ^{***} (11.56)	0.112 ^{***} (4.04)	0.486 ^{***} (12.05)	0.310 ^{***} (6.89)	0.013 (0.42)
<i>Size</i>	0.385 ^{***} (10.78)	0.257 ^{***} (6.98)		0.381 ^{***} (9.11)	0.237 ^{***} (5.41)	
<i>Export</i>			0.305 ^{***} (7.08)			0.266 ^{***} (5.31)
<i>Exchange</i>	-0.006 (-0.29)	-0.023 (-0.86)	0.049 ^{**} (1.97)	-0.006 (-0.25)	-0.029 (-0.09)	0.043 (1.49)
<i>Distance</i>	-0.191 ^{**} (-2.28)	-0.111 (-0.91)	-0.798 ^{***} (-6.37)	-0.095 (-0.99)	0.160 (1.13)	-0.666 ^{***} (-4.57)
<i>NAFTA</i>		1.66 ^{***} (4.98)			1.60 ^{***} (4.17)	
<i>ASEAN</i>		0.627 ^{***} (3.39)			0.612 ^{***} (2.87)	
<i>APEC</i>		0.483 ^{***} (2.61)			0.720 ^{***} (3.37)	
<i>ANDEAN</i>		0.547 ^{***} (2.61)			0.490 [*] (1.94)	
<i>GEO1</i>			1.343 ^{***} (6.05)			1.532 ^{***} (5.89)
<i>GEO2</i>			0.024 (0.12)			0.238 (1.03)
Rho ρ	0.84	0.87	0.85	0.79	0.82	0.82
DW	1.74	1.64	1.68	1.70	1.73	1.74
Hausman	0.60	4.73	0.96	0.15	0.87	0.14
Adj. R ²	0.73	0.80	0.73	0.72	0.76	0.70
No.	492	492	492	492	492	492
F ^d	20.97	16.73	24.15	17.25	15.98	23.82

^a Random effect estimates corrected for first-order serial autocorrelation. t-statistics (in parentheses) computed with White's heteroscedasticity-consistent standard errors. Critical F value computed according to Leamer (1994, p.114).

Note: Asterisk (*), double asterisk (**), and triple asterisk (***) denote significance at 10%, 5%, and 1%, respectively.

References

Leamer. E.E. 1994. "Vector Autoregressions for Causal Inference? The Methodology of Econometrics." Elgar Reference Collection. *International Library of Critical Writings in Econometrics*. Aldershot, U.K.: Elgar, Vol. 6, Vol. 2, pp. 77-125.