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TRADE AND AGRICULTURE DIRECTORATE
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Group on Commodity Markets
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DEMAND GROWTH IN DEVELOPING COUNTRIES - ANNEX

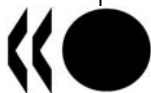
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This Annex is presented to the 2nd Session of the Group on commodity Markets for DISCUSSION under item 5 of the draft agenda, together with document [TAD/CA/APM/CFS/MD(2010)9].

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Table 1. Demand elasticities for cereals: Brazil

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Coelho and de Aguiar (2007)	2002/03	Both	Cross Section	QUAIDS	Rice	1.26	-1.66
					Noodles	1.41	-1.35
					Bread	0.47	-0.89
Menezes <i>et al.</i> (2008)	1987/88, 1995/96	Urban	Pooled	Two-Stage LA/AIDS-LA/AIDS	Wheat	0.24	-0.92
					Rice and Beans	0.09	-0.80
Pintos-Payeras (2009)	2002/03	Both	Cross Section	AIDS	Rice	0.31	*
					Other Cereals	0.35	*

Notes: — indicates that the study did not estimate price elasticities of demand

* indicates that the study estimated price elasticities, but the own-price elasticity could not be determined based on the published information

AIDS: Almost Ideal Demand System (Deaton and Muellbauer 1980)

DAIDS: Dynamic AIDS Model (Ray 1984)

LA/AIDS: Linear Approximation to AIDS Model (Deaton and Muellbauer 1980)

LES: Linear Expenditure System (Deaton and Muellbauer 1980)

LINQUAD: Linear-in-Income, Quadratic-in-Prices Demand System (LaFrance *et al.* 2002)

GLES: Generalized LES Model (Blundell and Ray 1984)

QUAIDS: Quadratic AIDS Model (Banks *et al.* 1997)

Table 2. Demand elasticities for cereals: Russia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Elsner (1999)	1996	Both	Cross Section	Three Stage, LA/AIDS at Second and Third Stages	Bread	0.51	-0.69
					Rice and Grain	0.44	-0.97
					Flour and Pasta	1.07	-1.80
Shiptsova <i>et al.</i> (2004)	1996	Urban	Cross Section	LA/AIDS	Bread	0.13	-0.82
					Flour	0.13	-0.63
					Rice	0.08	-0.44
					Pasta	0.07	-0.53

Note: See notes to Table 1.

Table 3. Demand elasticities for cereals: India

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Chatterjee <i>et al.</i> (2007)	1987/88, 1993/94, 1999/2000	Rural	Pooled	Two Stage, QUAIDS at Second Stage	Rice	0.45	*
					Wheat	0.68	*
					Other Cereals	0.48	*
Meenakshi and Ray (1999)	1972/73, 1977/78, 1983, 1987/88	Rural	Pooled	Two Stage, QUAIDS at Second Stage	Cereals	0.52	*
		Urban				0.35	*
Mittal (2006)	1983, 1987/88, 1993/94, 1999/2000	Both	Pooled	Two Stage, QUAIDS at Second Stage	Cereals	0.17	-0.48

Note: See notes to Table 1.

Table 4. Demand elasticities for cereals: Indonesia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Deaton (1990)	1981	Rural	Cross Section	AIDS	Rice	0.49	-0.42
					Wheat	1.57	-0.69
					Maize	0.09	-0.82
Fabiosa and Jensen (2003)	1996	Both	Cross Section	LINQUAD	Cereals	0.02	-0.43
Jensen and Manrique (1998)	1981, 1984, 1987	Both	Pooled	LA/AIDS	Rice	0.10	-0.58
Teklu and Johnson (1988)	1980	Urban	Cross Section	LA/AIDS	Rice	0.33	-0.58

Note: See notes to Table 1.

Table 5. Demand elasticities for cereals: China

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Dong and Gould (2007)	2001	Urban	Cross Section	QUAIDS	Rice	0.97	-0.63
					Other Cereals	0.64	-1.01
Fan <i>et al.</i> (1994)	1982-1990	Rural	Pooled	DAIDS	Rice	0.31	-0.55
					Wheat	0.59	-0.46
					Coarse Cereals	0.03	-0.46
Fan <i>et al.</i> (1995)	1982-1990	Rural	Pooled	Two-Stage LES-AIDS	Rice	0.50	-0.63
					Wheat	0.77	-0.54
					Coarse Cereals	0.26	-0.24
Gale and Huang (2007)	2002-2003	Rural	Pooled	None (Unlinked)	Cereals	0.06	—
		Urban			Cereals	-0.09	—
Gao <i>et al.</i> (1996)	1990	Rural	Cross Section	Two-Stage GLES-QUAIDS	Cereals	0.52	-0.99
Gould (2002)	1995-1997	Urban	Pooled	Two-Stage, Translog at Second Stage	Cereals	0.25	*
Gould and Villarreal (2006)	2001	Urban	Cross Section	QUAIDS	Rice	1.16	-0.64
					Other Cereals	0.75	-1.03
Huang and Rozelle (1998)	1993-1994	Rural	Cross Section	LA/AIDS	Cereals	0.86	-0.57
Katchova and Chern (2004)	1994	Rural	Cross Section	AIDS	Cereals	0.87	-0.55
Liao and Chern (2007)	2002-2003	Urban	Panel	DAIDS	Cereals	0.54	-0.73
Shono <i>et al.</i> (2000)	1995	Urban	Cross Section	None (Unlinked)	Cereals	0.08	—
Yan and Chern (2005)	1995	Rural	Cross Section	QUAIDS	Cereals	0.97	-0.74
Ye and Taylor (1995)	1989	Rural	Cross Section	Two Stage, AIDS at Second Stage	Cereals	0.26	—

Yen <i>et al.</i> (2004)	2000	Urban	Cross Section	Translog	Cereals	0.82	-0.90
Zhang <i>et al.</i> (2001)	1986-1995	Rural	Panel	AIDS	Cereals	0.26	-0.31
Zhang and Wang (2003)	1998	Urban	Cross Section	Two-Stage AIDS-AIDS	Rice	0.44	-1.26
					Wheat	0.55	-1.90

Note: See notes to Table 1.

Table 6. Demand elasticities for meat and seafood: Brazil

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Coelho and de Aguiar (2007)	2002/03	Both	Cross Section	QUAIDS	Beef (high quality)	1.57	-0.82
					Beef (lower quality)	1.12	-1.21
					Chicken	1.10	-0.91
					Pork	1.21	-1.67
Menezes <i>et al.</i> (2008)	1987/88, 1995/96	Urban	Pooled	Two-Stage LA/AIDS-LA/AIDS	Beef	0.65	-0.92
					Pork	0.84	-0.87
Pintos-Payeras (2009)	2002/03	Both	Cross Section	AIDS	Beef (high quality)	0.73	*
					Beef (lower quality)	0.41	*
					Chicken	0.38	*
					Other Meat	0.47	*
					Seafood	0.52	*

Note: See notes to Table 1.

Table 7. Demand Elasticities for Meat and Seafood: Russia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Elsner (1999)	1996	Both	Cross Section	Three Stage, LA/AIDS at Second and Third Stages	Beef and Veal	1.06	-1.21
					Pork	0.72	-0.97
					Poultry	0.67	-0.91
					Processed Meat and Sausages	0.48	-1.12
					Other Meat and Fish	1.16	-1.30
Goodwin <i>et al.</i> (2003)	1996	Urban	Cross Section	LES	Beef	0.25	-0.41
					Pork	0.29	-0.17
					Chicken	0.20	-0.33
					Fish	0.18	-0.32
					Processed Meat	0.07	-0.08

Note: See notes to Table 1.

Table 8. Demand elasticities for meat and seafood: India

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Chatterjee <i>et al.</i> (2007)	1987/88, 1993/94, 1999/2000	Rural	Pooled	Two Stage, QUAIDS at Second Stage	Meat, Fish, and Eggs	0.95	*
Dey <i>et al.</i> (2008)	2002	Both	Cross Section	QUAIDS	Fish	1.62	-0.92
Mittal (2006)	1983, 1987/88, 1993/94, 1999/2000	Both	Pooled	Two Stage, QUAIDS at Second Stage	Meat, Fish, and Eggs	1.30	-2.26

Note: See notes to Table 1.

Table 9. Demand elasticities for meat and seafood: Indonesia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Deaton (1990)	1981	Rural	Cross Section	AIDS	Meat	2.30	-1.09
					Fresh Fish	1.08	-0.76
					Dried Fish	0.57	-0.24
Dey <i>et al.</i> (2008)	1999	Both	Cross Section	QUAIDS	Fish	1.46	-0.84
Fabiosa and Jensen (2003)	1996	Both	Cross Section	LINQUAD	Meat	0.29	-0.77
					Fish	0.24	-0.59
Jensen and Manrique (1998)	1981, 1984, 1987	Both	Pooled	LA/AIDS	Meat	0.25	-0.91
					Fish	-0.82	-0.66
Teklu and Johnson (1988)	1980	Urban	Cross Section	LA/AIDS	Fish	0.81	-0.87

Note: See notes to Table 1.

Table 10. Demand elasticities for meat and seafood: China

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Dey <i>et al.</i> (2008)	1997, 2001	Both	Cross Section	QUAIDS	Fish	0.92	-0.46
Dong and Gould (2007)	2001	Urban	Cross Section	QUAIDS	Beef	1.14	-0.97
					Pork	1.28	-0.58
					Poultry	1.13	-0.88
					Seafood/Fish	0.98	-0.61
Fan <i>et al.</i> (1994)	1982-1990	Rural	Pooled	DAIDS	Meat	1.78	-0.60
Fan <i>et al.</i> (1995)	1982-1990	Rural	Pooled	Two-Stage LES-AIDS	Meat	0.90	-0.31
Gale and Huang (2007)	2002-2003	Rural	Pooled	None (Unlinked)	Pork	0.24	—
					Beef and Mutton	0.39	—
					Poultry	0.66	—
					Aquatic Products	0.93	—
					Pork	0.13	—
		Urban			Beef	0.19	—
		Mutton			0.18	—	
		Poultry			0.38	—	
		Aquatic Products			0.52	—	
		Gao <i>et al.</i> (1996)			1990	Rural	Cross Section
Beef	0.78		-1.04				
Poultry	0.29		-0.53				
Fish	0.89		-0.81				
Gould (2002)	1995-1997	Urban	Pooled	Two-Stage, Translog at Second Stage	Pork	0.23	*
					Beef/Mutton	0.19	*
					Poultry	0.12	*
					Seafood	0.14	*
Gould and Villarreal (2006)	2001	Urban	Cross Section	QUAIDS	Beef	1.18	-0.97
					Pork	1.20	-0.66
					Poultry	1.20	-0.89
					Seafood/Fish	1.40	-0.57
Huang and Rozelle (1998)	1993-1994	Rural	Cross Section	LA/AIDS	Meat	0.33	-0.74
Katchova and Chern (2004)	1994	Rural	Cross Section	AIDS	Pork	1.24	-0.20
					Poultry	1.36	-0.85

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Liao and Chern (2007)	2002-2003	Urban	Panel	DAIDS	Meat	1.34	-0.82
					Poultry	1.48	-1.00
					Fish	1.34	-0.44
Liu <i>et al.</i> (2009)	2005	Both	Cross Section	LA/AIDS	Pork	0.77	-1.00
					Poultry	0.90	-1.55
					Beef	1.34	-1.75
					Mutton	1.38	-2.00
Shono <i>et al.</i> (2000)	1995	Urban	Cross Section	None (Unlinked)	Pork	0.46	—
					Beef	0.50	—
					Mutton	0.67	—
					Carp	0.86	—
					Shrimp	0.76	—
Wang <i>et al.</i> (1998)	1986-1992	Urban	Pooled	AIDS	Pork	0.83	-0.85
					Beef and Mutton	0.85	-0.67
					Poultry	1.49	-1.34
					Fish	1.19	-1.03
Yan and Chern (2005)	1995	Rural	Cross Section	QUAIDS	Pork	1.07	-0.66
					Poultry	1.08	-0.34
					Aquatic Products	1.14	-0.24
Ye and Taylor (1995)	1989	Rural	Cross Section	Two Stage, AIDS at Second Stage	Beef	1.04	—
					Pork	0.82	—
Yen <i>et al.</i> (2004)	2000	Urban	Cross Section	Translog	Beef	1.41	-0.96
					Pork	0.94	-0.21
					Poultry	1.26	-0.75
					Fish	1.41	-0.37
Zhang <i>et al.</i> (2001)	1986-1995	Rural	Panel	AIDS	Meat	0.70	-0.28
					Fish	0.85	-0.84
Zhang and Wang (2003)	1998	Urban	Cross Section	Two-Stage AIDS-AIDS	Pork	0.25	-0.72
					Beef and Mutton	0.30	-0.27
					Poultry	0.33	-0.53
					Aquatic Products	0.34	-0.39

Note: See notes to Table 1.

Table 11. Demand elasticities for dairy products: Brazil

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Coelho and de Aguiar (2007)	2002/03	Both	Cross Section	QUAIDS	Milk Powder	1.05	-0.81
					Fluid Milk	0.74	-1.25
					Butter	1.13	0.38
					Cheese	1.05	-1.34
Menezes <i>et al.</i> (2008)	1987/88, 1995/96	Urban	Pooled	Two-Stage LA/AIDS-LA/AIDS	Fluid Milk	0.72	-0.98

Note: See notes to Table 1.

Table 12. Demand elasticities for dairy products: Russia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Elsner (1999)	1996	Both	Cross Section	Three Stage, LA/AIDS at Second and Third Stages	Fluid Milk	1.07	-1.27
					Cheese	1.23	-1.05
					Other Dairy Products	1.45	-1.10

Note: See notes to Table 1.

Table 13. Demand elasticities for dairy products: India

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Chatterjee <i>et al.</i> (2007)	1987/88, 1993/94, 1999/2000	Rural	Pooled	Two Stage, QUAIDS at Second Stage	Dairy Products	0.96	*
Meenakshi and Ray (1999)	1972/73, 1977/78, 1983, 1987/88	Rural	Pooled	Two Stage, QUAIDS at Second Stage	Dairy Products	0.94	*
		Urban				0.87	*
Mittal (2006)	1983, 1987/88, 1993/94, 1999/2000	Both	Pooled	Two Stage, QUAIDS at Second Stage	Fluid Milk	1.19	-0.78

Note: See notes to Table 1.

Table 14. Demand elasticities for dairy products: Indonesia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Fabiosa and Jensen (2003)	1996	Both	Cross Section	LINQUAD	Milk and Eggs	0.62	-0.05
Jensen and Manrique (1998)	1981, 1984, 1987	Both	Pooled	LA/AIDS	Fluid Milk	0.71	-0.64

Note: See notes to Table 1.

Table 15. Demand elasticities for dairy products: China

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Bai <i>et al.</i> (2008)	2005	Urban	Cross Section	None (Unlinked)	Fluid Milk	0.48	-0.44
Dong and Gould (2007)	2001	Urban	Cross Section	QUAIDS	Dairy Products	1.19	-0.41
Fuller <i>et al.</i> (2007)	2001	Urban	Cross Section	None (Unlinked)	Fluid Milk	0.82	—
					Yogurt	0.32	—
					Milk Powder	-0.17	—
Gale and Huang (2007)	2002-2003	Rural	Pooled	None (Unlinked)	Dairy Products	0.70	—
		Urban			Dairy Products	0.64	—
Gould (2002)	1995-1997	Urban	Pooled	Two-Stage, Translog at Second Stage	Dairy Products/ Eggs	0.27	*
Gould and Villarreal (2006)	2001	Urban	Cross Section	QUAIDS	Dairy Products	1.00	-0.39
Shono <i>et al.</i> (2000)	1995	Urban	Cross Section	None (Unlinked)	Fluid Milk	1.05	—
					Milk Powder	0.99	—
					Sour Cream	1.51	—
Wang <i>et al.</i> (1998)	1986-1992	Urban	Pooled	AIDS	Fluid Milk	1.27	-0.29
Yen <i>et al.</i> (2004)	2000	Urban	Cross Section	Translog	Fluid Milk	1.40	-1.40
Zhang and Wang (2003)	1998	Urban	Cross Section	Two-Stage AIDS-AIDS	Fluid Milk	0.27	-1.20
					Milk Powder	0.12	-0.81
					Yogurt	0.18	-0.86

Note: See notes to Table 1.

Table 16. Demand elasticities for fruits and vegetables: Brazil

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Coelho and de Aguiar (2007)	2002/03	Both	Cross Section	QUAIDS	Bananas	0.65	-1.28
					Tomatoes	0.67	-0.49
Menezes <i>et al.</i> (2008)	1987/88, 1995/96	Urban	Pooled	Two-Stage LA/AIDS-LA/AIDS	Fruits	0.82	-1.00
					Vegetables	0.61	-1.00
Pintos-Payeras (2009)	2002/03	Both	Cross Section	AIDS	Fruits and Vegetables	0.67	*

Note: See notes to Table 1.

Table 17. Demand elasticities for fruits and vegetables: Russia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Elsner (1999)	1996	Both	Cross Section	Three Stage, LA/AIDS at Second and Third Stages	Vegetables	1.40	-1.19
					Fruits	1.05	-1.05

Note: See notes to Table 1.

Table 18. Demand elasticities for fruits and vegetables: India

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Chatterjee <i>et al.</i> (2007)	1987/88, 1993/94, 1999/2000	Rural	Pooled	Two Stage, QUAIDS at Second Stage	Fruits and Vegetables	0.56	*
Mittal (2006)	1983, 1987/88, 1993/94, 1999/2000	Both	Pooled	Two Stage, QUAIDS at Second Stage	Fruits and Vegetables	0.72	-0.98

Note: See notes to Table 1.

Table 19. Demand elasticities for fruits and vegetables: Indonesia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Deaton (1990)	1981	Rural	Cross Section	AIDS	Vegetables	0.67	-1.11
					Legumes Fruits	0.85 1.39	-0.95 -0.95
Fabiosa and Jensen (2003)	1996	Both	Cross Section	LINQUAD	Vegetables	0.14	-0.37
					Fruits	0.75	-0.46
Jensen and Manrique (1998)	1981, 1984, 1987	Both	Pooled	LA/AIDS	Fruits	0.43	-0.77
Teklu and Johnson (1988)	1980	Urban	Cross Section	LA/AIDS	Fruits and Vegetables	0.85	-0.70

Note: See notes to Table 1.

Table 20. Demand elasticities for fruits and vegetables: China

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Ahmadi-Esfahani and Stanmore (1997)	1988-1990	Urban	Pooled	LA/AIDS	Cabbage	0.39	-0.41
					Chive	0.42	-0.08
					Potato	0.40	-0.14
					Carrot	0.12	0.14
					Cucumber	0.62	-0.22
					Tomato	0.40	-0.20
					Spring Onion	0.37	-0.15
					Garlic	0.56	-0.31
Dong and Gould (2007)	2001	Urban	Cross Section	QUAIDS	Vegetables	0.95	-0.68
					Fruits	0.72	-0.70
Fan <i>et al.</i> (1994)	1982-1990	Rural	Pooled	DAIDS	Vegetables	1.20	-0.47
Fan <i>et al.</i> (1995)	1982-1990	Rural	Pooled	Two-Stage LES-AIDS	Vegetables	0.67	-0.36
Gale and Huang (2007)	2002-2003	Rural	Pooled	None (Unlinked)	Fruit and Melons	0.48	—
		Urban			Fruit	0.35	—
		Melons			0.32	—	
Gould (2002)	1995-1997	Urban	Pooled	Two-Stage, Translog at Second Stage	Vegetables	0.20	*
					Fruits	0.21	*
Gould and Villarreal (2006)	2001	Urban	Cross Section	QUAIDS	Vegetables	0.95	-0.66
					Fruits	0.85	-0.71
Huang and Rozelle (1998)	1993-1994	Rural	Cross Section	LA/AIDS	Vegetables	1.70	-0.82
					Fruits	1.20	-0.54
Katchova and Chern (2004)	1994	Rural	Cross Section	AIDS	Vegetables	0.95	-0.91
					Fruits	1.12	-1.32
Liao and Chern (2007)	2002-2003	Urban	Panel	DAIDS	Fresh Vegetables	0.74	-0.62
					Fresh Fruits	1.07	-0.69
Liu <i>et al.</i> (2008)	1993, 2001	Urban	Pooled	None (Unlinked)	Fruits	0.34	-0.31
					Vegetables	0.22	-0.06

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Shono <i>et al.</i> (2000)	1995	Urban	Cross Section	None (Unlinked)	Cabbage	0.20	—
					Onion	0.47	—
					Ginger	0.54	—
					Eggplant	0.31	—
					Pepper	0.40	—
					Apricot	0.75	—
					Citrus Fruits	1.03	—
					Peach	0.82	—
					Pear	0.98	—
					Banana	1.06	—
					Grape	1.07	—
					Watermelon	0.77	—
Yan and Chern (2005)	1995	Rural	Cross Section	QUAIDS	Vegetables	1.08	-0.44
					Fruits	1.20	*
Ye and Taylor (1995)	1989	Rural	Cross Section	Two Stage, AIDS at Second Stage	Vegetables	0.82	—
					Fruits	0.61	—
Yen <i>et al.</i> (2004)	2000	Urban	Cross Section	Translog	Vegetables	0.83	-0.72
					Fruits	0.60	-0.76
Zhang <i>et al.</i> (2001)	1986-1995	Rural	Panel	AIDS	Vegetables	0.37	-0.16
Zhang and Wang (2003)	1998	Urban	Cross Section	Two-Stage AIDS-AIDS	Vegetables	0.36	-0.73
					Fruits	0.31	-0.85

Note: See notes to Table 1.

Table 21. Demand elasticities for sugar: Brazil

Study	Data analyzed				Commodity	Study results	
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system		Income elasticity	Own-price elasticity
Menezes <i>et al.</i> (2008)	1987/88, 1995/96	Urban	Pooled	Two-Stage LA/AIDS-LA/AIDS	Sugar	0.39	-0.92
Pintos-Payeras (2009)	2002/03	Both	Cross Section	AIDS	Sugar	0.29	*

Note: See notes to Table 1.

Table 22. Demand elasticities for sugar: Russia

Study	Data analyzed				Commodity	Study results	
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system		Income elasticity	Own-price elasticity
Elsner (1999)	1996	Both	Cross Section	Three Stage, LA/AIDS at Second and Third Stages	Sugar	0.96	-1.10
					Sweets	0.63	-1.15

Note: See notes to Table 1.

Table 23. Demand elasticities for sugar: India

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Chatterjee <i>et al.</i> (2007)	1987/88, 1993/94, 1999/2000	Rural	Pooled	Two Stage, QUAIDS at Second Stage	Sugar and Spices	0.46	*
Mittal (2006)	1983, 1987/88, 1993/94, 1999/2000	Both	Pooled	Two Stage, QUAIDS at Second Stage	Sugar	0.82	-0.73

Note: See notes to Table 1.

Table 24. Demand elasticities for sugar: China

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Gao <i>et al.</i> (1996)	1990	Rural	Cross Section	Two-Stage GLES-QUAIDS	Sugar	0.79	-0.90
Ye and Taylor (1995)	1989	Rural	Cross Section	Two Stage, AIDS at Second Stage	Sweets	0.71	—

Note: See notes to Table 1.

Table 25. Demand elasticities for fats and oils: Brazil

Study	Data analyzed				Commodity	Study results	
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system		Income elasticity	Own-price elasticity
Menezes <i>et al.</i> (2008)	1987/88, 1995/96	Urban	Pooled	Two-Stage LA/AIDS-LA/AIDS	Oil	0.55	-0.99

Note: See notes to Table 1.

Table 26. Demand elasticities for fats and oils: Russia

Study	Data analyzed				Commodity	Study results	
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system		Income elasticity	Own-price elasticity
Elsner (1999)	1996	Both	Cross Section	Three Stage, LA/AIDS at Second and Third Stages	Fats and Oils	0.91	-1.15

Note: See notes to Table 1.

Table 27. Demand elasticities for fats and oils: India

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Chatterjee <i>et al.</i> (2007)	1987/88, 1993/94, 1999/2000	Rural	Pooled	Two Stage, QUAIDS at Second Stage	Edible Oils	0.49	*
Mittal (2006)	1983, 1987/88, 1993/94, 1999/2000	Both	Pooled	Two Stage, QUAIDS at Second Stage	Edible Oils	0.55	-0.80
Pan <i>et al.</i> (2008)	2000-2001	Both	Cross Section	Two-Stage, LINQUAD at Second Stage	Peanut Oil	0.40	-1.27
					Liquid Butter Oil	0.12	-0.58
					Rapeseed Oil	0.06	-0.28
					Palm Oil	0.25	-0.75

Note: See notes to Table 1.

Table 28. Demand elasticities for fats and oils: Indonesia

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Fabiosa and Jensen (2003)	1996	Both	Cross Section	LINQUAD	Oils and Fat	0.15	-0.82

Note: See notes to Table 1.

Table 29. Demand elasticities for fats and oils: China

Study	Data analyzed				Study results		
	Time period	Rural, urban, or both	Cross section, time series, pooled, or panel	Demand system	Commodity	Income elasticity	Own-price elasticity
Dong and Gould (2007)	2001	Urban	Cross Section	QUAIDS	Fats and Oils	1.22	-0.71
Fang and Beghin (2002)	1992, 1994-1998	Urban	Pooled	LINQUAD	Rapeseed Oil	0.10	-0.72
					Soy Oil	0.17	-0.87
					Peanut Oil	0.17	-0.48
					Other Vegetable Oil	0.26	-0.92
					Animal Fat	0.07	-0.43
Gale and Huang (2007)	2002-2003	Rural	Pooled	None (Unlinked)	Edible Oils	0.23	—
		Urban			Edible Oils	-0.08	—
Gould and Villarreal (2006)	2001	Urban	Cross Section	QUAIDS	Fats and Oils	1.34	-0.75
Liao and Chern (2007)	2002-2003	Urban	Panel	DAIDS	Oils	0.78	-1.08
Shono <i>et al.</i> (2000)	1995	Urban	Cross Section	None (Unlinked)	Edible Oils	0.17	—
Yan and Chern (2005)	1995	Rural	Cross Section	QUAIDS	Oils	1.17	-0.66
Yen <i>et al.</i> (2004)	2000	Urban	Cross Section	Translog	Fats and Oils	0.98	-0.55
Zhang and Wang (2003)	1998	Urban	Cross Section	Two-Stage AIDS-AIDS	Fats and Oils	0.32	-0.54

Note: See notes to Table 1.

Table 30. Estimated (1985) and Projected (2020) Income Elasticities of Demand from Yu *et al.* (2003)

Food Group	China (5.8%/year)		ASEAN (3.5%/year)		MERCOSUR (3.0%/year)		Transition Economies (3.1%/year)		Rest of World (2.1%/year)	
	1985	2020	1985	2020	1985	2020	1985	2020	1985	2020
Cereals	0.81	0.22	0.53	0.04	0.12	0.03	0.26	0.02	0.76	0.47
Livestock Products	1.46	0.69	0.80	0.84	0.70	0.82	0.70	0.87	1.07	0.79
Horticultural and Vegetable Products	1.33	0.46	0.66	0.60	0.43	0.57	0.47	0.64	0.99	0.64
Fish	1.43	0.23	0.56	0.00	0.12	0.00	0.27	0.02	0.99	0.53
Other Food	0.96	0.61	0.71	0.79	0.63	0.67	0.62	0.82	0.88	0.71

Note: The figures in parentheses below each region refer to assumed annual growth rates in real GDP *per capita*.

Table 31. Income Elasticities of Demand for Selected Countries from Seale and Regmi (2006)

Country	GDP Per capita, 1996	Beverages and Tobacco	Cereals	Meat	Fish	Dairy	Oils and Fats	Fruits and Vegetables	Other Food
Vietnam	USD 2 029	1.43	0.59	0.79	0.88	0.83	0.55	0.64	0.79
Peru	USD 4 775	0.93	0.47	0.69	0.75	0.72	0.41	0.54	0.69
Brazil	USD 8 196	0.87	0.44	0.66	0.71	0.68	0.37	0.52	0.66
Poland	USD 8 839	0.79	0.40	0.62	0.66	0.64	0.33	0.48	0.62
Korea	USD 17 613	0.63	0.31	0.50	0.54	0.52	0.24	0.38	0.50
France	USD 24 203	0.41	0.19	0.34	0.36	0.35	0.12	0.26	0.34
United States	USD 34 287	0.12	0.05	0.10	0.10	0.10	0.03	0.07	0.10

Note: GDP *per capita* is PPP converted, in 2005 prices, and is the chain series from Heston *et al.* (2009).

Table 32. Income and Own-Price Elasticities of Demand for Food, Beverages, and Tobacco from Seale and Regmi (2006)

Country	GDP Per capita, 1996	Income elasticity	Own-price elasticity
Vietnam	USD 2 029	0.74	-0.76
Peru	USD 4 775	0.65	-0.66
Brazil	USD 8 196	0.62	-0.62
Poland	USD 8 839	0.58	-0.58
Korea	USD 17 613	0.47	-0.47
France	USD 24 203	0.32	-0.32
United States	USD 34 287	0.09	-0.09

NOTE: GDP *per capita* is PPP converted, in 2005 prices, and is the chain series from Heston *et al.* (2009).