

# ANNUAL ESTIMATES OF DISTORTIONS TO AGRICULTURAL INCENTIVES IN EUROPE'S TRANSITION ECONOMIES

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# ANNUAL ESTIMATES OF DISTORTIONS TO AGRICULTURAL INCENTIVES IN EUROPE'S TRANSITION ECONOMIES

This Working Paper summarizes annual estimates of covered product NRAs, for each of the focus economies of Europe's transition economies, their key distortion indicators defined in Anderson et al. (2008), and provides some summary statistics for the region's estimates. Four tables are provided for each country: (a) the Nominal Rate of Assistance to individual farm products covered in the study and their weighted average, using as weights production valued at undistorted prices; (b) the Relative Rate of Assistance to producers of agricultural (relative to non-agricultural) tradables, again using as weights production valued at undistorted prices, and the component parts of the RRA calculation; (c) the weights themselves for individual covered farm products and for the residual non-covered group of products, shown as percentages and so they sum to 100 percent; and (d) the trade status of each covered product each year.

The Nominal Rate of Assistance (NRA) in the case of a product having just its output price distorted by government policies is the percentage by which the domestic producer price exceeds the price that would prevail under free markets, that is, the border price appropriately adjusted to account for differences in product quality, transport costs, processing costs, etc. A negative value indicates the domestic price is below that comparable border price. If producers of that product also are affected by distortions to product-specific input prices, their ad valorem equivalent is accounted for by subtracting the ad valorem input price distortion times its input-output coefficient from the farm industry's output NRA to get the total nominal rate of assistance to production of that farm product.

The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

The sources of these tables are the Working Paper versions of the chapters in Anderson and Swinnen (2008), each of which is downloadable in the Working Paper

section of the project's website, [www.worldbank.org/agdistortions](http://www.worldbank.org/agdistortions) (where the e-book version is also downloadable). Also available at that website is the complete global distortions database (Anderson and Valenzuela 2008). The references are provided below.

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Table 1: Annual distortion estimates, Bulgaria, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Pigmeat	Potato	Poultry	Rapeseed	Rice	Sheepmeat	Soybean	Sugar	Sunflower	Tomato	Wheat	Wine	All covered
1992	-31	-40	1	-21	-32	na	-37	na	-27	na	na	-19	na	-34	-39	na	-38	na	-31
1993	14	-36	2	19	10	na	-7	na	-4	na	na	-14	na	-43	-30	na	-1	na	-3
1994	-19	-37	-5	-20	-11	na	-18	na	-13	na	na	-41	na	-29	-41	na	-32	na	-22
1995	-43	-23	12	-21	25	na	-15	na	-7	na	na	15	na	-26	-40	na	-45	na	-18
1996	-15	-55	-13	-21	-41	na	-48	na	-32	na	na	-51	na	-26	-36	na	-18	na	-36
1997	3	-33	2	-4	-15	na	-15	na	3	na	na	1	na	0	-29	na	0	na	-9
1998	10	-2	18	-6	64	na	7	na	26	na	na	-47	na	18	-20	na	-14	na	4
1999	-15	-26	35	-17	-7	na	16	na	33	na	na	-20	na	41	-24	na	-11	na	-5
2000	-10	2	13	1	15	na	5	na	25	na	na	-29	na	14	-11	na	-2	na	1
2001	-14	30	5	8	-19	na	-14	na	14	na	na	32	na	16	-15	na	-4	na	-5
2002	-20	47	38	-14	-24	na	-1	na	41	na	na	28	na	8	-16	na	-19	na	-9
2003	2	40	23	6	20	na	2	na	90	na	na	29	na	73	-7	na	9	na	15
2004	2	6	10	32	62	na	24	na	135	na	na	43	na	91	-27	na	13	na	20
2005	-23	-6	13	-12	-4	na	34	na	113	na	na	42	na	159	-7	na	-35	na	-2
2006	-22	-6	23	-23	-2	na	11	na	80	na	na	-4	na	76	-13	na	-23	na	-6
2007	0	66	0	21	0	0	18	10	100	0	1	68	0	99	0	0	0	1	9

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.

Table 1 (continued): Annual distortion estimates, Bulgaria, 1992 to 2007  
 (b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries  
 (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Exportables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1992	1	-32	-33	-31	-32	-34	-32	na	na
1993	3	-6	-5	-3	-1	-12	-2	na	na
1994	2	-25	-23	-23	-24	-25	-22	na	na
1995	1	-19	-21	-19	-29	-6	-20	na	na
1996	1	-37	-35	-36	-40	-29	-35	na	na
1997	0	-9	-10	-9	-13	-4	-9	na	na
1998	0	4	7	6	-9	18	8	na	na
1999	1	-5	-4	-4	-11	11	-4	na	na
2000	0	1	4	2	-6	11	5	na	na
2001	0	-5	-7	-6	-9	6	-7	5	-11
2002	1	-10	-12	-10	-14	19	-11	5	-16
2003	2	13	12	13	7	25	13	9	3
2004	2	18	17	18	6	53	13	9	3
2005	0	-2	8	4	-16	40	-5	9	-13
2006	0	-6	7	-3	-16	12	-8	9	-16
2007	0	9	-10	7	4	36	7	9	-1

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 1 (continued): Annual distortion estimates, Bulgaria, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Pigmeat	Potato	Poultry	Rapeseed	Rice	Sheepmeat	Soybean	Sugar	Sunflower	Tomato	Wheat	Wine	Non-covered
1992	3	5	2	4	8	na	13	na	3	na	na	4	na	0	3	na	10	na	45
1993	3	7	3	3	9	na	13	na	4	na	na	6	na	0	3	na	13	na	36
1994	3	6	3	5	9	na	10	na	3	na	na	5	na	0	5	na	12	na	38
1995	3	4	3	6	6	na	12	na	3	na	na	3	na	0	5	na	12	na	42
1996	2	5	3	5	9	na	14	na	4	na	na	6	na	0	3	na	8	na	41
1997	2	4	2	5	7	na	13	na	3	na	na	3	na	0	2	na	12	na	46
1998	1	3	2	4	6	na	12	na	3	na	na	3	na	0	5	na	11	na	48
1999	2	3	2	6	9	na	8	na	3	na	na	5	na	0	5	na	9	na	48
2000	3	4	3	5	10	na	12	na	4	na	na	7	na	0	4	na	13	na	36
2001	3	1	3	3	15	na	3	na	4	na	na	2	na	0	3	na	15	na	47
2002	3	1	2	5	10	na	3	na	1	na	na	2	na	0	5	na	13	na	55
2003	2	1	4	5	8	na	4	na	2	na	na	2	na	0	7	na	9	na	54
2004	4	1	2	7	6	na	3	na	1	na	na	2	na	0	9	na	14	na	50
2005	2	2	2	5	7	na	4	na	2	na	na	2	na	0	7	na	11	na	57
2006	2	1	2	6	11	na	4	na	2	na	na	2	na	0	9	na	12	na	48
2007	4	2	3	2	3	0	5	2	2	1	0	3	0	0	10	4	23	12	24

a. At farmgate undistorted prices.

Table 1 (continued): Annual distortion estimates, Bulgaria, 1992 to 2007

(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	Egg	Maize	Milk	Oat	Pigmeat	Potato	Poultry	Rapeseed	Rice	Sheepmeat	Soybean	Sugar	Sunflower	Tomato	Wheat	Wine
1992	X	X	X	X	X	na	X	na	X	na	na	X	na	M	X	na	X	na
1993	X	M	X	M	X	na	M	na	X	na	na	X	na	M	X	na	X	na
1994	X	M	X	X	X	na	M	na	X	na	na	X	na	M	X	na	X	na
1995	X	M	X	X	M	na	M	na	X	na	na	X	na	M	X	na	X	na
1996	X	M	X	M	X	na	X	na	X	na	na	X	na	M	X	na	M	na
1997	M	M	X	X	X	na	X	na	M	na	na	M	na	M	X	na	M	na
1998	X	M	X	X	M	na	M	na	M	na	na	M	na	M	X	na	X	na
1999	X	M	X	X	X	na	M	na	M	na	na	X	na	M	X	na	X	na
2000	X	M	X	X	M	na	M	na	M	na	na	X	na	M	X	na	X	na
2001	X	M	X	M	X	na	M	na	M	na	na	X	na	M	X	na	X	na
2002	X	M	X	X	X	na	M	na	M	na	na	X	na	M	X	na	X	na
2003	X	M	X	X	M	na	M	na	M	na	na	X	na	M	X	na	X	na
2004	X	M	X	X	M	na	M	na	M	na	na	X	na	M	X	na	X	na
2005	X	M	X	X	M	na	M	na	M	na	na	X	na	M	X	na	X	na
2006	X	M	X	X	M	na	M	na	M	na	na	X	na	M	X	na	X	na
2007	X	M	X	X	M	X	M	X	M	X	X	X	X	M	X	X	X	X

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 2: Annual distortion estimates, Czech Republic, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Pigmea t	Potato	Poultry	Rapese ed	Soybea n	Sugar	Sunflo wer	Tomat o	Wheat	All covere d
1992	4	77	15	na	47	na	-12	na	49	18	na	51	na	na	-2	19
1993	40	32	2	na	61	na	18	na	51	-4	na	32	na	na	15	34
1994	15	26	16	na	48	na	11	na	49	-26	na	2	na	na	-1	20
1995	-29	22	29	na	40	na	4	na	35	-23	na	13	na	na	-34	6
1996	-28	24	15	na	44	na	6	na	33	-20	na	20	na	na	-25	8
1997	-11	6	35	na	52	na	-12	na	33	-20	na	5	na	na	-9	9
1998	18	16	51	na	98	na	32	na	53	-22	na	17	na	na	4	39
1999	-17	26	51	na	52	na	38	na	31	-16	na	13	na	na	-6	29
2000	-25	31	36	na	27	na	16	na	28	-6	na	18	na	na	-11	19
2001	-5	19	26	na	31	na	37	na	36	10	na	21	na	na	4	31
2002	1	26	14	na	71	na	19	na	59	-4	na	30	na	na	-1	34
2003	-7	41	3	na	78	na	18	na	55	8	na	58	na	na	1	39
2004	0	-125	0	na	87	na	36	na	103	0	na	193	na	na	0	30
2005	0	109	0	19	33	24	19	10	69	0	0	168	0	0	0	21
2006	0	81	0	11	25	0	14	10	69	0	0	62	0	0	0	16
2007	0	66	0	21	0	0	18	10	100	0	0	99	0	0	0	11

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.



Table 2 (continued): Annual distortion estimates, Czech Republic, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Exportables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1992	1	18	20	20	32	0	20	na	na
1993	3	31	33	32	31	40	32	na	na
1994	2	18	20	22	20	16	22	na	na
1995	3	3	5	7	1	10	7	na	na
1996	3	5	6	8	3	11	8	6	2
1997	4	5	6	8	6	1	8	6	2
1998	7	31	35	36	29	40	36	6	28
1999	8	21	23	25	3	44	25	3	22
2000	7	12	13	16	1	24	16	3	13
2001	9	21	24	25	8	35	25	3	22
2002	8	26	30	31	7	48	31	4	25
2003	10	29	33	35	11	49	35	4	29
2004	0	30	49	23	21	53	26	5	20
2005	0	21	35	22	18	31	19	5	13
2006	0	16	26	19	12	27	14	5	9
2007	0	11	18	13	6	38	9	5	4

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 2 (continued): Annual distortion estimates, Czech Republic, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Pigmea t	Potato	Poultry	Rapese ed	Soybea n	Sugar	Sunflo wer	Tomat o	Wheat	Non- covere d
1992	5	6	3	na	13	na	21	na	2	1	na	2	na	na	8	39
1993	5	8	4	na	13	na	16	na	2	2	na	3	na	na	8	39
1994	5	7	4	na	12	na	15	na	3	3	na	2	na	na	10	39
1995	6	7	3	na	11	na	15	na	2	4	na	2	na	na	12	39
1996	7	6	3	na	10	na	16	na	2	3	na	2	na	na	13	38
1997	8	7	3	na	9	na	17	na	3	3	na	2	na	na	12	36
1998	5	7	4	na	10	na	15	na	4	5	na	2	na	na	12	36
1999	6	6	3	na	12	na	11	na	4	5	na	2	na	na	11	39
2000	5	5	4	na	14	na	13	na	4	5	na	2	na	na	12	35
2001	6	4	4	na	13	na	15	na	5	5	na	2	na	na	12	33
2002	6	5	4	na	13	na	14	na	4	5	na	3	na	na	11	35
2003	8	6	5	na	13	na	15	na	5	3	na	2	na	na	9	35
2004	7	6	5	na	15	na	17	na	5	5	na	3	na	na	13	24
2005	9	5	5	2	5	0	15	4	5	7	0	1	1	0	17	24
2006	8	5	4	2	6	1	14	4	4	8	0	2	1	0	16	24
2007	11	3	3	3	8	1	9	3	3	9	0	1	1	0	22	24

a. At farmgate undistorted prices.

Table 2(continued): Annual distortion estimates, Czech Republic, 1992 to 2007

(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	Egg	Maize	Milk	Oat	Pigmea t	Potato	Poultry	Rapese ed	Soybea n	Sugar	Sunflo wer	Tomat o	Wheat
1992	X	X	X	na	X	na	M	na	M	X	na	M	na	na	X
1993	M	X	X	na	X	na	X	na	X	X	na	X	na	na	X
1994	X	M	X	na	X	na	M	na	X	X	na	X	na	na	X
1995	X	X	X	na	X	na	M	na	M	X	na	M	na	na	X
1996	X	X	X	na	X	na	M	na	M	X	na	X	na	na	X
1997	X	X	X	na	X	na	X	na	M	X	na	X	na	na	M
1998	X	X	X	na	X	na	M	na	M	X	na	X	na	na	X
1999	X	X	X	na	M	na	M	na	M	X	na	X	na	na	X
2000	X	X	X	na	M	na	M	na	M	X	na	X	na	na	X
2001	X	X	X	na	M	na	M	na	M	X	na	M	na	na	X
2002	X	X	X	na	M	na	M	na	M	X	na	X	na	na	X
2003	X	X	X	na	M	na	M	na	M	X	na	X	na	na	X
2004	X	X	X	na	X	na	M	na	M	X	na	X	na	na	X
2005	X	X	X	X	X	X	M	X	M	X	X	X	X	X	X
2006	X	X	X	X	X	X	M	X	M	X	X	X	X	X	X
2007	X	X	X	X	X	X	M	X	M	X	X	X	X	X	X

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 3: Annual distortion estimates, Estonia, 1992 to 2007

(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barle y	Beef	Egg	Milk	Oat	Oilsee d	Pigme at	Potato	Poultr y	Rye	Tomat o	Wheat	All cover ed
1992	-28	-57	-41	-41	-46	22	-50	na	-34	22	na	6	-39
1993	-7	-30	-32	-22	-38	-3	-22	na	6	-14	na	-6	-22
1994	-10	-23	-15	-10	-28	-14	15	na	34	10	na	-1	-8
1995	16	-29	14	14	-4	16	0	na	60	36	na	1	4
1996	9	-23	11	29	20	-2	-5	na	60	20	na	1	10
1997	13	-31	26	31	50	-1	-12	na	48	22	na	14	11
1998	70	-8	25	42	29	18	42	na	47	98	na	43	37
1999	33	-21	53	-7	50	36	45	na	29	61	na	35	9
2000	3	-26	23	15	22	25	26	na	34	34	na	13	13
2001	1	16	26	8	6	42	18	na	28	21	na	10	12
2002	18	21	11	23	-14	30	19	na	69	-3	na	17	21
2003	11	0	5	42	-8	22	20	na	78	3	na	9	26
2004	0	-125	0	87	1	0	36	na	103	na	na	0	36
2005	0	109	0	33	24	0	19	10	69	na	0	0	20
2006	0	81	0	25	0	0	14	10	69	na	0	0	15
2007	0	66	0	0	0	0	18	10	100	na	0	0	7

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.

Table 3 (continued): Annual distortion estimates, Estonia, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1992	0	-39	-39	-38	-51	-31	-38	na	na
1993	0	-22	-22	-20	-26	-18	-20	na	na
1994	0	-8	-8	-6	-21	-3	-6	na	na
1995	1	4	4	8	-18	12	8	0	8
1996	2	9	10	13	-2	10	13	0	12
1997	2	10	11	14	-1	11	14	0	13
1998	11	26	37	41	23	38	41	0	40
1999	10	-1	9	13	-5	40	13	0	12
2000	9	4	13	15	25	12	15	1	14
2001	8	4	12	13	10	15	13	1	12
2002	12	9	21	23	21	21	23	1	22
2003	12	14	26	30	14	27	30	1	29
2004	0	36	36	23	87	1	36	0	36
2005	0	20	20	18	24	18	14	0	14
2006	0	15	15	16	19	13	11	0	11
2007	0	7	7	9	3	8	4	0	4

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 3 (continued): Annual distortion estimates, Estonia, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Milk	Oat	Oilsee d	Pigme at	Potato	Poultr y	Rye	Tomat o	Wheat	Non- cover ed
1992	5	8	4	24	1	0	11	na	2	3	na	2	41
1993	7	15	3	23	2	0	9	na	1	3	na	2	35
1994	5	11	4	22	1	0	8	na	1	1	na	1	46
1995	6	11	3	23	1	0	11	na	1	1	na	2	41
1996	9	9	4	22	3	0	11	na	1	2	na	3	37
1997	7	8	3	23	2	0	13	na	1	1	na	3	37
1998	5	8	4	26	2	1	12	na	2	1	na	3	37
1999	3	9	3	25	1	1	8	na	2	1	na	2	46
2000	8	6	3	25	2	2	9	na	2	1	na	4	39
2001	6	4	3	31	2	2	12	na	2	1	na	3	35
2002	5	5	3	24	2	3	13	na	2	1	na	3	38
2003	6	4	4	22	1	4	12	na	3	1	na	4	41
2004	6	5	3	25	2	3	11	na	2	na	na	3	39
2005	11	4	3	9	2	5	10	6	2	na	0	8	41
2006	10	4	3	10	2	6	10	7	2	na	0	8	38
2007	14	2	2	12	2	7	6	4	1	na	0	12	38

a. At farmgate undistorted prices.

Table 3 (continued): Annual distortion estimates, Estonia, 1992 to 2007

(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	egg	Milk	Oat	Oilseed	Pigmeat	Potato	Poultry	Rye	Tomato	Wheat
1992	M	X	X	M	M	X	X	na	M	M	na	M
1993	M	X	X	M	M	X	X	na	M	X	na	M
1994	M	X	X	M	M	X	M	na	M	M	na	M
1995	M	X	X	M	M	X	M	na	M	M	na	M
1996	M	M	M	M	M	X	M	na	M	M	na	M
1997	M	M	M	M	M	X	M	na	M	M	na	M
1998	M	M	X	M	M	X	M	na	M	M	na	M
1999	M	X	X	X	M	X	M	na	M	M	na	M
2000	M	M	M	M	M	X	M	na	M	M	na	M
2001	M	M	M	X	M	X	M	na	M	M	na	M
2002	M	M	M	X	X	M	M	na	M	M	na	M
2003	M	M	M	M	X	X	M	na	M	M	na	M
2004	M	M	M	X	M	M	M	na	M	na	na	M
2005	M	M	M	X	M	M	M	X	M	na	X	M
2006	M	M	M	X	M	M	M	X	M	na	X	M
2007	M	M	M	X	M	M	M	X	M	na	X	M

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 4: Annual distortion estimates, Hungary, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Pigme at	Potato	Poultr y	Rapes eed	Rice	Sheep meat	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat	Wine	All cover ed
1992	-10	46	63	-4	48	na	17	23	20	na	na	46	na	100	-24	na	-18	na	20
1993	27	18	52	25	72	na	30	15	29	na	na	-7	na	84	-36	na	14	na	33
1994	15	25	59	-3	76	na	44	-7	37	na	na	-12	na	70	-17	na	-3	na	28
1995	-31	15	60	-13	42	na	30	-2	33	na	na	-3	na	65	-11	na	-35	na	11
1996	3	-1	34	-13	28	na	6	17	33	na	na	7	na	75	-7	na	-4	na	11
1997	-10	-13	63	-25	58	na	7	52	32	na	na	-7	na	94	-10	na	-15	na	9
1998	19	-7	81	-23	111	na	46	3	39	na	na	17	na	81	-9	na	-9	na	29
1999	9	5	96	-12	97	na	39	9	28	na	na	-49	na	129	-2	na	16	na	32
2000	-1	4	68	-1	55	na	15	35	37	na	na	-53	na	95	-5	na	13	na	28
2001	-2	6	82	-25	60	na	37	21	48	na	na	-52	na	111	1	na	-11	na	26
2002	7	8	27	-9	116	na	47	83	61	na	na	-48	na	232	15	na	10	na	52
2003	-15	7	-10	32	113	na	23	86	51	na	na	-48	na	287	1	na	28	na	48
2004	0	-125	0	-25	87	na	36	10	103	na	na	47	na	193	0	na	0	na	25
2005	0	109	0	19	33	24	19	10	69	0	2	54	0	168	0	0	0	2	18
2006	0	81	0	11	25	0	14	10	69	0	3	74	0	62	0	0	0	1	14
2007	0	66	0	21	0	0	18	10	100	0	1	68	0	99	0	0	0	1	13

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.



Table 4 (continued): Annual distortion estimates, Hungary, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables NRA	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All		
	Inputs	Outputs							
1992	4	16	16	16	15	23	16	10	5
1993	5	28	28	28	22	50	28	9	17
1994	5	23	23	24	15	42	24	9	13
1995	3	7	7	7	4	21	7	9	-1
1996	4	7	7	7	7	3	7	8	-2
1997	4	5	5	7	5	na	7	4	2
1998	8	21	21	26	22	3	26	4	21
1999	7	25	25	33	25	9	33	4	27
2000	7	22	22	26	22	18	26	4	21
2001	9	17	17	23	13	51	23	4	18
2002	17	35	35	45	34	38	45	8	34
2003	14	34	34	43	32	61	43	8	32
2004	0	25	30	19	26	10	25	8	16
2005	0	18	22	20	19	10	18	8	10
2006	0	14	16	17	14	10	14	8	6
2007	0	13	16	15	14	10	13	8	5

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 4 (continued): Annual distortion estimates, Hungary, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Pigme at	Potato	Poultr y	Rapes eed	Rice	Sheep meat	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat	Wine	Non- cover ed
1992	3	3	4	9	7	na	18	3	8	na	na	1	na	1	4	na	8	na	31
1993	2	4	4	10	7	na	17	4	8	na	na	1	na	1	4	na	7	na	32
1994	3	3	4	11	6	na	14	4	7	na	na	1	na	1	4	na	10	na	32
1995	3	2	2	10	6	na	13	5	7	na	na	1	na	1	4	na	11	na	34
1996	2	2	3	14	5	na	14	2	6	na	na	1	na	1	3	na	10	na	37
1997	3	2	3	15	6	na	15	1	8	na	na	1	na	1	2	na	13	na	31
1998	2	2	2	13	6	na	12	3	8	na	na	1	na	1	4	na	10	na	34
1999	2	2	2	17	7	na	12	3	9	na	na	1	na	1	4	na	5	na	34
2000	2	2	3	12	8	na	16	2	10	na	na	1	na	1	2	na	9	na	31
2001	3	2	3	17	8	na	14	2	10	na	na	1	na	1	3	na	11	na	27
2002	3	2	3	15	7	na	13	1	9	na	na	1	na	1	5	na	8	na	32
2003	3	2	4	11	7	na	16	1	9	na	na	1	na	0	5	na	7	na	32
2004	3	2	4	15	8	na	16	2	11	na	na	1	na	1	4	na	10	na	24
2005	3	1	3	16	4	0	10	1	7	1	0	1	0	1	6	2	11	9	24
2006	2	1	3	17	4	0	9	2	6	2	0	1	0	1	6	2	11	8	24
2007	4	1	3	10	7	0	8	2	5	3	0	0	0	0	7	3	15	8	24

a. At farmgate undistorted prices.

Table 4 (continued): Annual distortion estimates, Hungary, 1992 to 2007

(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	Egg	Maize	Milk	Oat	Pigmeat	Potato	Poultry	Rapeseed	Rice	Sheepmeat	Soybean	Sugar	Sunflower	Tomato	Wheat	Wine
1992	X	X	X	X	X	na	X	M	X	na	na	X	na	X	X	na	X	na
1993	M	X	X	X	M	na	X	M	X	na	na	X	na	M	X	na	X	na
1994	M	M	M	X	M	na	X	M	X	na	na	X	na	M	X	na	X	na
1995	X	X	X	X	M	na	X	M	X	na	na	X	na	X	X	na	X	na
1996	M	X	X	X	X	na	X	X	X	na	na	X	na	X	X	na	X	na
1997	X	X	X	X	X	na	X	X	X	na	na	X	na	X	X	na	X	na
1998	X	X	X	X	X	na	X	M	X	na	na	X	na	X	X	na	X	na
1999	X	X	X	X	X	na	X	M	X	na	na	X	na	X	X	na	X	na
2000	X	M	X	X	X	na	X	M	X	na	na	X	na	X	X	na	X	na
2001	X	M	M	X	X	na	X	M	X	na	na	X	na	M	X	na	X	na
2002	X	M	X	X	X	na	X	M	X	na	na	X	na	X	X	na	X	na
2003	X	M	X	X	X	na	X	M	X	na	na	X	na	M	X	na	X	na
2004	X	X	X	X	X	na	X	M	X	na	na	X	na	X	X	na	X	na
2005	X	X	X	X	X	X	X	M	X	X	X	X	X	X	X	X	X	X
2006	X	X	X	X	X	X	X	M	X	X	X	X	X	X	X	X	X	X
2007	X	X	X	X	X	X	X	M	X	X	X	X	X	X	X	X	X	X

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 5: Annual distortion estimates, Kazakhstan, 2000 to 2004  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Beef	Milk	Pigme at	Potato	Sugar	Wheat	All cover ed
2000	-38	-2	63	8	-5	-1	-13
2001	-3	-3	46	-4	-3	-8	-4
2002	-1	0	39	4	21	4	3
2003	36	-4	82	3	28	2	-18
2004	68	8	59	13	21	-16	-8

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.

Table 5 (continued): Annual distortion estimates, Kazakhstan, 2000 to 2004

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All		
	Inputs	Outputs							
2000	0	-13	-13	na	1	-21	-8	2	-10
2001	0	-4	-4	na	-10	2	-4	2	-6
2002	0	3	3	na	2	5	2	2	0
2003	0	-18	-18	na	-6	-22	-12	2	-14
2004	0	-8	-8	-5	-17	2	-8	2	-10

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 5 (continued): Annual distortion estimates, Kazakhstan, 2000 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Beef	Milk	Pigme at	Potato	Sugar	Wheat	Non- cover ed
2000	26	10	2	4	2	13	43
2001	7	10	3	5	3	23	49
2002	8	11	4	4	2	16	55
2003	3	7	2	4	1	10	73
2004	3	7	2	3	2	18	65

a. At farmgate undistorted prices.

Table 5 (continued): Annual distortion estimates, Kazakhstan, 2000 to 2004

(d) Trade status<sup>a</sup> of covered products

	Beef	Milk	Pigme at	Potato	Sugar	Wheat
2000	M	M	M	X	M	X
2001	M	M	M	M	M	X
2002	M	M	M	M	M	X
2003	M	M	M	M	M	X
2004	M	M	M	X	M	X

Sources: Pomfret (2007a)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 6: Annual distortion estimates, Latvia, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barle y	Beef	Egg	Milk	Oat	Oilsee d	Pigme at	Potato	Poultr y	Rye	Sugar	Tomat o	Wheat	All cover ed
1992	-30	-78	-44	-69	-44	9	-61	na	-56	-5	65	na	-24	-46
1993	-17	-66	0	-40	-38	-14	14	na	24	-34	78	na	-22	-25
1994	-6	-32	22	-21	-11	-27	79	na	74	-14	78	na	-10	5
1995	-22	-26	58	-19	-12	-22	27	na	70	17	55	na	-4	1
1996	-9	-18	35	-13	0	-22	12	na	50	16	59	na	1	3
1997	-3	-28	51	-7	41	10	6	na	59	18	83	na	5	12
1998	27	-14	57	15	11	144	30	na	76	39	136	na	21	45
1999	29	-2	64	6	61	26	122	na	87	72	126	na	20	46
2000	19	-6	50	0	64	23	78	na	109	60	101	na	12	31
2001	6	58	36	2	21	32	57	na	96	34	101	na	2	33
2002	8	37	4	10	-15	5	35	na	153	-16	109	na	-9	33
2003	-3	-10	-10	6	-6	-2	37	na	55	7	134	na	-6	26
2004	0	-125	0	87	1	0	36	na	103	na	193	na	0	64
2005	0	109	0	33	24	0	19	10	69	na	168	0	0	15
2006	0	81	0	25	0	0	14	10	69	na	62	0	0	11
2007	0	66	0	0	0	0	18	10	100	na	99	0	0	5

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.



Table 6 (continued): Annual distortion estimates, Latvia, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1992	0	-46	-46	-45	-47	-44	-45	na	na
1993	0	-25	-25	-24	-46	27	-24	na	na
1994	2	4	5	7	-22	51	7	na	na
1995	2	-1	1	3	-9	25	3	na	na
1996	1	2	3	5	-7	11	5	2	3
1997	1	11	12	14	-2	27	14	3	10
1998	6	39	45	48	20	62	48	3	44
1999	10	37	46	54	37	48	54	3	50
2000	8	23	31	38	49	30	38	3	34
2001	5	28	33	40	14	37	40	2	37
2002	6	27	33	35	53	18	35	2	32
2003	9	17	26	31	46	10	31	2	28
2004	0	64	64	39	0	82	39	3	36
2005	0	15	15	15	3	35	10	3	7
2006	0	11	11	13	4	25	7	3	5
2007	0	5	5	8	3	9	4	3	1

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 6 (continued): Annual distortion estimates, Latvia, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Milk	Oat	Oilsee d	Pigme at	Potato	Poultr y	Rye	Sugar	Tomat o	Wheat	Non- cover ed
1992	3	10	2	18	1	0	5	na	1	2	5	na	3	50
1993	3	15	2	19	1	0	7	na	1	3	5	na	3	40
1994	5	13	2	22	1	0	8	na	2	1	6	na	3	36
1995	3	9	2	22	1	0	9	na	1	1	6	na	4	42
1996	7	5	3	23	1	0	7	na	1	2	6	na	8	37
1997	5	5	3	22	1	0	8	na	1	2	9	na	7	37
1998	4	6	3	22	1	0	6	na	1	1	14	na	6	36
1999	4	5	3	25	1	0	5	na	1	1	12	na	7	34
2000	5	5	4	26	1	0	6	na	1	1	10	na	8	32
2001	3	3	4	24	1	0	6	na	1	1	12	na	7	37
2002	3	2	4	19	1	1	6	na	1	2	12	na	8	41
2003	4	3	5	18	1	1	5	na	1	1	9	na	8	43
2004	4	4	4	22	1	1	6	na	1	na	11	na	8	38
2005	8	3	6	2	2	6	5	12	1	na	1	0	14	39
2006	6	3	6	2	2	6	5	15	1	na	1	0	14	39
2007	7	1	5	9	2	7	2	10	1	na	0	0	17	39

a. At farmgate undistorted prices.

Table 6 (continued): Annual distortion estimates, Latvia, 1992 to 2007

(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	Egg	Milk	Oat	Oilseed	Pigmeat	Potato	Poultry	Rye	Sugar	Tomato	Wheat
1992	M	X	X	X	M	X	M	na	M	X	X	na	M
1993	M	X	X	X	X	M	M	na	M	X	M	na	X
1994	M	X	X	X	X	X	M	na	M	X	M	na	M
1995	M	X	M	X	M	X	X	na	M	X	M	na	M
1996	M	M	X	X	M	X	M	na	M	M	M	na	M
1997	M	M	M	X	X	X	X	na	M	M	M	na	M
1998	M	M	X	X	X	X	M	na	M	M	M	na	M
1999	M	M	X	M	X	M	M	na	M	M	M	na	X
2000	M	M	X	M	M	X	M	na	M	M	M	na	M
2001	M	M	X	M	M	X	M	na	M	M	M	na	X
2002	M	M	X	M	M	X	M	na	M	M	X	na	X
2003	M	M	X	M	M	X	M	na	M	X	X	na	X
2004	M	M	X	M	M	X	M	na	M	na	M	na	X
2005	M	M	X	M	M	X	M	X	M	na	M	X	X
2006	M	M	X	M	M	X	M	X	M	na	M	X	X
2007	M	M	X	M	M	X	M	X	M	na	M	X	X

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 7: Annual distortion estimates, Lithuania, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Oilseed	Pigmeat	Potato	Poultry	Rye	Sugar	Tomato	Wheat	All covered
1992	-31	-71	-42	na	-74	-53	73	-47	na	-45	-9	107	na	-31	-46
1993	-2	-48	-18	na	-57	-34	-39	14	na	19	-24	74	na	-21	-21
1994	-15	-31	-1	na	-55	-39	-28	60	na	79	-31	35	na	-27	-18
1995	-7	-24	22	na	-35	-16	-9	39	na	88	7	65	na	-6	0
1996	-3	-18	14	na	-30	28	7	27	na	74	9	73	na	-1	3
1997	7	-15	23	na	-20	51	-8	19	na	82	33	97	na	-1	14
1998	24	28	18	na	3	12	-4	60	na	108	56	145	na	6	41
1999	26	10	31	na	-11	36	-9	86	na	111	103	190	na	35	42
2000	5	-10	14	na	-27	4	17	72	na	96	32	172	na	6	23
2001	8	54	11	na	-28	3	20	51	na	86	17	116	na	11	18
2002	31	38	-10	na	-9	-15	16	35	na	93	-5	149	na	26	33
2003	17	-5	-6	na	-1	10	11	41	na	52	4	203	na	17	33
2004	0	-125	0	na	87	1	0	36	na	103	na	193	na	0	55
2005	0	109	0	19	33	24	0	19	10	69	na	168	0	0	18
2006	0	81	0	11	25	0	0	14	10	69	na	62	0	0	15
2007	0	66	0	21	0	0	0	18	10	100	na	99	0	0	7

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.

Table 7 (continued): Annual distortion estimates, Lithuania, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1992	0	-46	-46	-45	-70	-3	-45	na	na
1993	0	-21	-21	-20	-50	20	-20	na	na
1994	1	-20	-18	-15	-27	35	-15	na	na
1995	2	-2	0	2	-11	24	2	3	0
1996	2	1	3	6	-14	24	6	3	3
1997	3	11	14	17	-7	56	17	2	14
1998	4	37	41	45	19	98	45	2	41
1999	2	40	42	47	36	64	47	2	43
2000	2	21	23	27	17	38	27	2	24
2001	3	14	18	22	13	33	22	2	19
2002	6	27	33	38	32	34	38	1	37
2003	8	25	33	39	3	80	39	1	38
2004	0	55	55	35	64	29	53	1	51
2005	0	18	18	17	20	15	17	1	15
2006	0	15	15	16	17	13	14	1	13
2007	0	7	7	9	6	9	6	1	5

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 7 (continued): Annual distortion estimates, Lithuania, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Maize	Milk	Oat	Oilsee d	Pigme at	Potato	Poultr y	Rye	Sugar	Tomat o	Wheat	Non- cover ed
1992	4	15	2	na	26	0	0	8	na	2	2	6	na	5	29
1993	5	14	2	na	21	0	0	6	na	1	2	8	na	5	36
1994	5	12	2	na	22	0	0	6	na	2	2	6	na	4	39
1995	5	7	2	na	19	0	0	7	na	1	1	8	na	5	44
1996	9	7	2	na	18	1	0	6	na	2	2	8	na	8	37
1997	7	7	2	na	18	0	0	8	na	1	2	9	na	8	36
1998	6	6	2	na	18	1	1	7	na	2	2	9	na	7	41
1999	5	7	2	na	21	0	2	6	na	2	1	7	na	6	41
2000	7	6	2	na	22	0	1	6	na	2	2	8	na	9	36
2001	5	3	3	na	25	0	1	6	na	2	1	8	na	8	38
2002	6	3	3	na	23	1	2	7	na	2	1	10	na	9	34
2003	6	4	4	na	19	1	2	7	na	2	1	7	na	9	40
2004	6	4	3	na	23	1	1	7	na	2	na	9	na	9	36
2005	10	4	5	0	6	1	4	7	8	2	na	1	0	14	37
2006	9	5	6	0	8	1	5	7	8	2	na	1	0	11	37
2007	13	2	2	0	8	1	6	4	6	1	na	0	0	18	37

a. At farmgate undistorted prices.

Table 7 (continued): Annual distortion estimates, Lithuania, 1992 to 2007

(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	Egg	Maize	Milk	Oat	Oilseed	Pigmeat	Potato	Poultry	Rye	Sugar	Tomato	Wheat
1992	M	X	X	na	X	M	M	M	na	X	M	M	na	M
1993	M	X	X	na	X	M	M	M	na	X	M	M	na	M
1994	X	X	X	na	X	M	X	M	na	X	M	X	na	X
1995	M	X	X	na	X	M	X	X	na	X	X	M	na	M
1996	M	X	X	na	X	M	X	X	na	M	M	M	na	M
1997	M	X	X	na	X	M	X	X	na	M	M	M	na	X
1998	M	X	X	na	X	M	X	X	na	M	X	M	na	X
1999	M	X	X	na	X	M	X	M	na	M	X	X	na	X
2000	M	X	M	na	X	M	X	M	na	M	X	X	na	X
2001	M	X	M	na	X	M	X	M	na	M	X	X	na	X
2002	M	X	X	na	X	M	X	M	na	M	M	X	na	X
2003	M	X	X	na	X	M	X	M	na	M	M	M	na	X
2004	M	X	X	na	X	M	X	M	na	M	na	X	na	X
2005	M	X	X	X	X	M	X	M	X	M	na	X	X	X
2006	M	X	X	X	X	M	X	M	X	M	na	X	X	X
2007	M	X	X	X	X	M	X	M	X	M	na	X	X	X

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 8: Annual distortion estimates, Poland, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barle y	Bee f	Egg	Maize	Milk	Oat	Other oilsee d	Other grains	Pigme at	Potato	Poultr y	Sheep meat	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat	All cover ed
1992	na	15	73	40	17	na	16	3	-32	na	59	10	na	26	na	na	10	-4
1993	na	5	64	33	19	na	23	26	-7	na	33	4	na	14	na	na	23	14
1994	na	16	92	29	5	na	38	9	9	na	66	22	na	18	na	na	11	19
1995	na	13	94	24	18	na	12	5	-12	na	48	19	na	20	na	na	9	10
1996	na	46	68	23	23	na	25	26	-16	na	54	11	na	35	na	na	28	17
1997	na	29	59	28	34	na	9	25	-14	na	32	11	na	29	na	na	22	17
1998	na	19	109	30	52	na	15	23	13	na	41	9	na	42	na	na	30	33
1999	na	-12	98	0	39	na	11	24	18	na	30	-52	na	43	na	na	15	27
2000	na	-34	55	-4	35	na	26	29	-18	na	12	-48	na	63	na	na	23	13
2001	na	-30	18	7	35	na	11	6	-14	na	9	-12	na	40	na	na	19	10
2002	na	-39	6	13	36	na	7	5	-20	na	10	-12	na	49	na	na	15	7
2003	na	-44	-14	9	28	na	17	15	-29	na	2	-1	na	52	na	na	6	0
2004	na	-125	0	-25	87	na	na	na	36	na	103	47	na	193	na	na	0	39
2005	0	109	0	19	33	24	na	na	19	10	69	54	0	168	0	0	0	22
2006	0	81	0	11	25	0	na	na	14	10	69	74	0	62	0	0	0	17
2007	0	66	0	21	0	0	na	na	18	10	100	68	0	99	0	0	0	12

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.



Table 8 (continued): Annual distortion estimates, Poland, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Exportables	Import-competing	All		
	Inputs	Outputs							
1992	3	-7	-4	-2	-24	23	-2	10	-10
1993	3	11	12	14	na	12	14	10	4
1994	3	16	16	18	20	16	18	10	8
1995	2	8	8	9	-7	19	9	6	3
1996	2	15	16	18	4	36	17	8	8
1997	3	13	14	18	7	28	18	7	10
1998	4	29	30	34	17	43	34	5	27
1999	3	24	25	27	16	38	27	3	23
2000	3	10	11	13	-11	32	13	3	10
2001	2	8	8	10	-8	23	10	2	7
2002	2	5	5	8	4	9	7	3	4
2003	2	-2	-3	0	-16	24	-2	2	-3
2004	0	39	58	21	46	-3	39	3	35
2005	0	22	33	18	26	3	22	3	19
2006	0	17	25	16	19	1	17	3	14
2007	0	12	18	11	14	2	12	3	9

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 8 (continued): Annual distortion estimates, Poland, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Maize	Milk	Oat	Oilsee d	Other grains	Pigme at	Potato	Poultr y	Sheep meat	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat	Non- cover ed
1992	na	5	2	0	13	na	1	5	33	na	3	1	na	1	na	na	7	30
1993	na	5	2	0	12	na	1	6	21	na	2	0	na	2	na	na	8	41
1994	na	5	3	0	13	na	1	5	21	na	3	0	na	2	na	na	7	40
1995	na	5	2	0	11	na	2	6	19	na	2	0	na	2	na	na	7	45
1996	na	5	2	0	11	na	1	7	22	na	3	0	na	2	na	na	9	38
1997	na	6	2	0	12	na	1	7	22	na	3	0	na	1	na	na	8	36
1998	na	7	2	0	12	na	2	7	21	na	3	0	na	1	na	na	8	35
1999	na	5	2	1	14	na	2	6	18	na	4	0	na	1	na	na	8	38
2000	na	3	3	1	13	na	1	5	17	na	3	0	na	1	na	na	7	46
2001	na	2	3	1	13	na	1	6	17	na	4	0	na	1	na	na	7	44
2002	na	3	3	1	12	na	1	6	17	na	4	0	na	1	na	na	7	44
2003	na	3	3	1	12	na	1	5	17	na	4	0	na	1	na	na	6	45
2004	na	3	3	1	14	na	na	na	19	na	4	0	na	1	na	na	7	45
2005	3	2	4	1	6	1	na	na	15	8	3	0	0	1	0	1	7	45
2006	3	2	4	1	6	1	na	na	14	10	3	0	0	1	0	1	6	45
2007	4	1	3	1	8	1	na	na	9	10	2	0	0	1	0	1	9	45

a. At farmgate undistorted prices.

Table 8 (continued): Annual distortion estimates, Poland, 1992 to 2007  
(d) Trade status<sup>a</sup> of covered products

	Barle y	Beef	Egg	Maize	Milk	Oat	Other Oilsee d	Other grains	Pigme at	Potato	Poultr y	Sheep meat	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat
1992	na	M	M	M	M	na	X	X	X	na	M	X	na	X	na	na	M
1993	na	M	M	M	M	na	M	M	M	na	M	M	na	M	na	na	M
1994	na	X	M	M	M	na	X	M	M	na	M	M	na	X	na	na	M
1995	na	X	M	M	M	na	M	M	X	na	M	X	na	M	na	na	M
1996	na	X	M	M	X	na	X	M	X	na	M	X	na	M	na	na	M
1997	na	X	M	M	X	na	M	M	X	na	M	X	na	X	na	na	M
1998	na	X	M	M	M	na	X	M	X	na	X	X	na	M	na	na	M
1999	na	X	M	M	M	na	M	M	X	na	X	X	na	X	na	na	X
2000	na	X	M	M	M	na	X	M	X	na	X	X	na	X	na	na	M
2001	na	X	X	M	M	na	M	M	X	na	X	X	na	M	na	na	M
2002	na	X	X	M	X	na	X	M	X	na	X	M	na	X	na	na	X
2003	na	X	X	M	M	na	M	M	X	na	X	M	na	M	na	na	X
2004	na	X	X	M	X	na	na	na	X	na	X	X	na	X	na	na	M
2005	na	X	X	M	X	X	na	na	X	X	X	X	X	X	X	X	M
2006	X	X	X	M	X	X	na	na	X	X	X	X	X	X	X	X	M
2007	X	X	X	M	X	X	na	na	X	X	X	X	X	X	X	X	M

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 9: Annual distortion estimates, Romania, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Pigme at	Potato	Poultr y	Rapes eed	Rice	Sheep meat	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat	Wine	All cover ed
1992	-11	33	7	15	-8	-24	-1	na	37	-31	na	-11	24	131	-15	na	33	na	15
1993	100	-15	30	67	35	21	19	na	22	16	na	-58	89	172	-5	na	49	na	34
1994	50	-28	47	15	65	-5	29	na	57	-39	na	-48	45	160	-12	na	56	na	39
1995	-10	-26	71	-8	62	-1	21	na	40	-45	na	-20	20	100	-16	na	-2	na	20
1996	20	-32	40	2	68	14	11	na	31	-45	na	-41	22	125	-5	na	23	na	26
1997	-4	-35	62	6	63	25	-26	na	33	-52	na	-56	0	113	-22	na	-4	na	5
1998	24	52	112	8	147	49	54	na	101	-36	na	19	-15	127	-20	na	16	na	57
1999	16	-3	87	18	75	56	27	na	56	-19	na	-40	-9	181	-22	na	26	na	33
2000	14	-16	17	23	79	102	4	na	45	-4	na	-46	-4	141	-2	na	48	na	33
2001	36	84	74	68	94	124	54	na	130	-4	na	-3	28	90	-16	na	54	na	71
2002	16	93	46	7	88	13	64	na	192	3	na	-11	19	173	-23	na	18	na	49
2003	73	37	22	75	126	124	11	na	146	4	na	-20	-7	228	-29	na	61	na	61
2004	60	7	101	79	143	68	40	na	167	-2	na	-25	-2	293	-5	na	36	na	70
2005	27	60	163	26	49	55	109	na	56	7	na	-75	-9	294	-5	na	16	na	47
2006	14	43	120	4	66	41	99	na	88	1	na	-73	-12	157	-4	na	-10	na	37
2007	0	66	0	21	0	0	18	10	100	0	1	68	0	99	0	0	0	1	11

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.

Table 9 (continued): Annual distortion estimates, Romania, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Exportables	Import-competing	All		
	Inputs	Outputs							
1992	6	9	10	11	7	11	12	11	1
1993	6	29	34	33	9	46	36	11	22
1994	12	26	30	30	4	41	32	11	19
1995	7	13	14	16	2	30	16	11	5
1996	10	16	18	18	7	31	20	11	8
1997	2	2	4	5	-4	22	6	11	-5
1998	2	55	56	58	6	90	59	11	43
1999	2	30	33	34	10	50	35	8	26
2000	4	30	33	34	10	38	36	8	26
2001	4	66	69	68	5	74	70	8	57
2002	1	48	50	50	5	85	51	8	40
2003	3	58	62	61	-26	70	63	8	51
2004	6	63	68	69	56	71	44	3	40
2005	0	47	57	45	13	68	21	3	17
2006	0	37	44	15	-21	46	14	3	11
2007	0	11	13	8	7	14	9	3	6

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 9 (continued): Annual distortion estimates, Romania, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Maize	Milk	Oat	Pigme at	Potat o	Poultr y	Rapes eed	Rice	Sheep meat	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat	Wine	Non- cover ed
1992	2	6	4	10	8	1	18	Na	6	0	na	3	0	0	2	na	4	na	36
1993	2	6	3	11	7	1	12	na	4	0	na	3	0	0	2	na	7	na	41
1994	2	7	3	12	8	1	10	na	3	0	na	3	0	0	2	na	6	na	43
1995	2	5	3	12	8	0	10	na	3	0	na	2	0	0	2	na	9	na	42
1996	2	5	4	16	9	0	11	na	4	0	na	2	0	0	3	na	4	na	40
1997	2	5	3	15	8	0	14	na	3	0	na	2	0	0	2	na	9	na	37
1998	1	4	4	12	10	0	12	na	4	0	na	2	1	0	4	na	7	na	39
1999	1	4	3	14	10	0	8	na	4	0	na	2	0	0	4	na	5	na	44
2000	1	4	4	8	13	0	9	na	3	0	na	3	0	0	2	na	7	na	45
2001	2	3	4	14	13	0	10	na	3	0	na	2	0	0	3	na	11	na	34
2002	2	3	4	14	12	1	8	na	3	0	na	2	0	0	4	na	6	na	41
2003	1	3	5	14	10	0	8	na	3	0	na	3	1	0	5	na	4	na	44
2004	1	4	4	15	8	0	7	na	2	0	na	3	1	0	4	na	9	na	43
2005	1	4	3	8	7	0	6	na	2	0	na	2	1	0	3	na	6	na	58
2006	1	3	3	9	9	0	5	na	1	0	na	2	1	0	3	na	6	na	58
2007	2	2	5	7	13	1	6	8	2	2	0	2	1	0	3	5	9	9	24

a. At farmgate undistorted prices.

Table 9 (continued): Annual distortion estimates, Romania, 1992 to 2007

(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	Egg	Maize	Milk	Oat	Pigmeat	Potato	Poultry	Rapeseed	Rice	Sheepmeat	Soybean	Sugar	Sunflower	Tomato	Wheat	Wine
1992	M	X	X	M	M	M	X	na	M	X	na	M	M	M	M	na	M	na
1993	M	X	X	M	M	M	X	na	M	X	na	M	M	M	X	na	M	na
1994	M	X	M	M	M	X	X	na	M	X	na	M	M	M	X	na	M	na
1995	M	M	M	X	M	X	X	na	M	X	na	M	M	M	X	na	X	na
1996	X	M	M	X	M	X	X	na	M	X	na	M	M	M	X	na	X	na
1997	X	M	X	X	M	M	X	na	M	X	na	M	M	M	X	na	X	na
1998	M	M	M	X	M	M	M	na	M	X	na	X	X	M	X	na	X	na
1999	M	M	M	X	M	M	M	na	M	X	na	X	X	M	X	na	X	na
2000	M	M	M	X	M	M	M	na	M	X	na	X	X	M	X	na	M	na
2001	X	M	M	M	M	M	M	na	M	X	na	X	M	M	X	na	M	na
2002	X	M	M	X	M	M	M	na	M	X	na	X	M	M	X	na	X	na
2003	M	M	M	M	M	M	M	na	M	X	na	X	M	M	X	na	M	na
2004	M	M	M	X	M	M	M	na	M	X	na	X	M	M	X	na	M	na
2005	M	M	M	X	M	M	M	na	M	X	na	X	M	M	X	na	M	na
2006	X	M	M	M	M	M	M	na	M	X	na	X	M	M	X	na	M	na
2007	X	M	M	M	M	M	M	X	M	X	X	X	M	M	X	X	M	X

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 10: Annual distortion estimates, Russia, 1992 to 2005  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barle y	Beef	Egg	Maize	Milk	Oat	Pigme at	Poultr y	Rye	Sugar	Sunfl ower	Wheat	All cover ed
1992	6	-73	-64	-34	-55	-32	-70	-57	-25	16	-40	-46	-34
1993	-14	-50	-38	-3	-29	-28	-11	-9	-29	96	-51	-20	-8
1994	-12	-42	10	95	-3	-12	20	27	1	65	-17	-11	22
1995	-37	-30	50	47	63	-16	32	49	25	63	-6	-11	35
1996	-2	-8	31	62	63	28	27	55	38	93	-22	5	36
1997	0	51	46	43	79	16	46	71	27	105	-26	7	45
1998	-10	0	29	12	52	-5	46	31	-12	88	-30	-21	26
1999	-41	-19	6	-14	24	-33	39	12	-23	7	-33	-28	3
2000	-16	18	-17	9	11	-7	3	51	30	22	-34	-21	4
2001	-17	48	-1	35	9	-38	46	110	-8	42	2	-10	18
2002	-25	72	-8	-19	40	-66	59	73	-44	71	-22	-21	24
2003	-22	47	-32	-14	43	-57	31	46	-41	85	-22	-8	17
2004	-12	20	5	-24	40	-29	42	79	11	98	9	3	26
2005	-11	9	0	-34	3	-25	61	100	-11	59	na	-10	11

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.



Table 10 (continued): Annual distortion estimates, Russia, 1992 to 2005

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All		
	Inputs	Outputs							
1992	14	-49	-48	-45	-50	-48	-45	2	-46
1993	19	-27	-27	-20	-26	-27	-20	8	-25
1994	31	-8	-8	9	-11	-7	9	9	-1
1995	21	14	14	24	-24	19	24	9	14
1996	13	23	23	29	-22	25	29	10	17
1997	7	38	38	42	-6	44	42	12	27
1998	6	19	19	26	-30	22	26	12	13
1999	6	-3	-3	1	-10	-2	1	12	-10
2000	4	0	0	3	-22	2	3	12	-7
2001	5	12	13	17	-14	27	17	9	7
2002	7	16	16	19	-29	43	19	9	9
2003	6	11	11	14	-16	23	14	9	4
2004	4	22	22	25	0	32	14	9	5
2005	0	11	17	13	-8	21	6	9	-3

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 10 (continued): Annual distortion estimates, Russia, 1992 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Maize	Milk	Oat	Pigme at	Poultr y	Rye	Sugar	Sunfl ower	Wheat	Non- cover ed
1992	7	12	5	1	13	4	9	3	4	1	2	16	23
1993	5	15	6	1	14	3	7	4	3	1	2	12	28
1994	5	15	6	0	14	3	6	3	1	1	2	8	37
1995	4	14	4	0	14	2	6	3	1	1	3	9	38
1996	5	12	5	0	14	2	6	2	2	1	2	12	37
1997	6	8	5	1	14	2	7	3	2	1	2	15	35
1998	2	11	6	0	16	1	6	3	1	1	2	9	41
1999	3	9	5	0	16	1	5	3	1	1	3	11	41
2000	4	6	6	1	17	1	6	2	1	1	2	13	39
2001	5	7	6	0	17	3	7	2	2	1	1	14	35
2002	4	6	6	1	15	3	6	3	2	1	3	12	38
2003	5	6	8	1	15	2	6	3	1	1	3	10	40
2004	5	8	6	1	15	2	6	3	1	1	3	13	36

a. At farmgate undistorted prices.

Table 10 (continued): Annual distortion estimates, Russia, 1992 to 2005  
(d) Trade status<sup>a</sup> of covered products

	Barle y	Beef	Egg	Maize	Milk	Oat	Pigme at	Poultr y	Rye	Sugar	Sunfl ower	Wheat
1992	M	M	X	M	M	X	M	M	M	M	M	M
1993	X	M	M	M	M	X	M	M	X	M	X	M
1994	X	M	M	M	M	X	M	M	X	M	X	M
1995	X	M	M	M	M	M	M	M	M	M	X	M
1996	M	M	M	M	M	M	M	M	M	M	X	M
1997	X	M	M	M	M	M	M	M	M	M	X	M
1998	M	M	M	M	M	M	M	M	M	M	X	M
1999	M	M	X	M	M	M	M	M	M	M	X	M
2000	X	M	M	M	M	M	M	M	M	M	X	M
2001	X	M	M	M	M	X	M	M	M	M	X	X
2002	X	M	M	M	M	X	M	M	X	M	X	X
2003	X	M	M	M	M	M	M	M	X	M	X	X
2004	X	M	M	M	M	M	M	M	M	M	X	X
2005	X	M	M	M	M	M	M	M	M	M	na	X

Sources: Liefert and Liefert (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 11: Annual distortion estimates, Slovakia, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barle y	Beef	Egg	Maize	Milk	Oat	Pigme at	Potato	Poultr y	Rapes eed	Rye	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat	Wine	All cover ed
1992	5	72	35	42	48	-19	-1	na	59	17	14	na	72	11	na	5	na	45
1993	57	12	28	32	70	-3	15	na	62	-4	11	na	44	-7	na	24	na	45
1994	41	14	27	13	48	5	23	na	50	-27	32	na	24	-21	na	17	na	35
1995	-5	15	37	9	34	6	20	na	53	-5	29	na	19	-1	na	-18	na	22
1996	-20	6	17	-5	31	2	10	na	48	-12	1	na	25	-1	na	-25	na	13
1997	3	4	36	6	57	63	14	na	42	-12	21	na	36	2	na	-7	na	28
1998	47	0	50	-4	95	45	50	na	58	-17	62	na	53	-14	na	18	na	52
1999	4	3	46	-11	67	35	71	na	34	3	50	na	43	-6	na	7	na	45
2000	-3	9	42	3	45	47	44	na	47	12	60	na	55	24	na	11	na	50
2001	-8	9	23	-9	35	23	36	na	44	-7	22	na	26	-15	na	-4	na	30
2002	22	2	20	-18	69	-5	45	na	57	-11	-11	na	24	-14	na	-2	na	37
2003	-1	17	13	-1	79	10	41	na	59	-9	16	na	52	4	na	0	na	44
2004	0	-125	0	-25	87	1	36	na	103	0	na	na	193	0	na	0	na	22
2005	0	109	0	19	33	24	19	10	69	0	na	0	168	0	0	0	2	21
2006	0	81	0	11	25	0	14	10	69	0	na	0	62	0	0	0	1	15
2007	0	66	0	21	0	0	18	10	100	0	na	0	99	0	0	0	1	10

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.

Table 11 (continued): Annual distortion estimates, Slovakia, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All		
	Inputs	Outputs							
1992	21	24	24	30	24	25	30	na	na
1993	14	31	31	35	41	23	35	na	na
1994	10	25	25	30	30	21	30	na	na
1995	9	13	13	17	7	20	17	na	na
1996	9	4	4	7	-3	14	7	na	na
1997	12	16	16	19	15	17	19	na	na
1998	15	38	38	43	36	40	43	na	na
1999	14	31	31	36	21	43	36	na	na
2000	19	31	31	35	28	32	35	na	na
2001	13	17	17	20	12	20	20	na	na
2002	13	24	24	30	18	34	30	21	7
2003	14	30	30	35	30	29	35	21	11
2004	0	22	30	17	44	8	21	5	15
2005	0	21	28	22	16	26	18	5	12
2006	0	15	20	18	11	19	12	5	7
2007	0	10	14	13	5	16	8	5	3

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 11 (continued): Annual distortion estimates, Slovakia, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Maize	Milk	Oat	Pigme at	Potato	Poultr y	Rapes eed	Rye	Soybe an	Sugar	Sunfl ower	Tomat o	Wheat	Wine	Non- cover ed
1992	6	7	5	4	12	0	23	na	3	1	0	na	2	1	na	12	na	24
1993	5	10	5	5	12	0	21	na	3	1	1	na	2	1	na	12	na	22
1994	5	8	5	4	12	0	19	na	3	2	1	na	2	1	na	15	na	25
1995	5	7	4	4	12	0	18	na	3	2	0	na	2	1	na	15	na	27
1996	5	6	4	6	10	0	17	na	3	2	0	na	2	1	na	14	na	28
1997	6	7	4	5	10	0	19	na	4	3	1	na	2	1	na	14	na	24
1998	5	9	4	5	10	0	17	na	5	2	1	na	2	2	na	13	na	24
1999	6	8	3	7	13	0	14	na	6	4	0	na	2	2	na	9	na	25
2000	4	7	4	4	16	0	17	na	6	2	0	na	2	2	na	10	na	26
2001	5	4	4	5	14	0	15	na	6	4	1	na	2	2	na	14	na	23
2002	6	5	4	7	13	0	14	na	5	5	1	na	2	3	na	12	na	23
2003	8	5	5	5	13	0	14	na	5	1	0	na	2	5	na	8	na	28
2004	5	5	4	5	13	0	13	na	5	3	na	na	2	3	na	20	na	24
2005	6	4	3	7	10	0	11	2	4	4	na	0	1	4	2	13	4	24
2006	6	4	5	7	9	0	10	3	4	5	na	0	2	4	2	13	3	24
2007	9	3	5	5	7	0	8	3	3	7	na	0	0	3	1	19	3	24

a. At farmgate undistorted prices.

Table 11 (continued): Annual distortion estimates, Slovakia, 1992 to 2007  
(d) Trade status<sup>a</sup> of covered products

	barley	beef	egg	maize	milk	oat	pigme at	potato	poultr y	rapese ed	rye	soybe an	sugar	sunflo wer	tomat o	wheat	wine
1992	X	M	M	X	X	X	M	na	M	X	M	na	M	X	na	X	na
1993	X	X	M	X	X	X	M	na	M	M	M	na	M	X	na	M	na
1994	X	X	X	X	X	M	M	na	M	M	M	na	M	X	na	M	na
1995	X	M	X	X	X	M	M	na	M	M	M	na	M	X	na	X	na
1996	X	M	X	X	X	X	M	na	M	X	M	na	M	X	na	X	na
1997	X	M	X	X	X	X	M	na	M	X	M	na	M	X	na	X	na
1998	X	M	M	X	X	M	M	na	M	X	M	na	M	X	na	X	na
1999	X	M	M	X	X	X	M	na	M	X	M	na	M	X	na	X	na
2000	X	M	M	X	X	X	M	na	M	X	M	na	M	X	na	M	na
2001	X	M	M	X	X	M	M	na	M	X	M	na	M	X	na	M	na
2002	X	M	M	X	X	M	M	na	M	X	X	na	M	X	na	X	na
2003	X	M	X	X	X	X	M	na	M	M	X	na	M	X	na	M	na
2004	X	M	M	X	X	X	M	na	M	X	na	na	X	X	na	M	na
2005	X	M	M	X	X	X	M	X	M	X	na	X	X	X	X	M	X
2006	X	M	M	X	X	X	M	X	M	X	na	X	X	X	X	M	X
2007	X	M	M	X	X	X	M	X	M	X	na	X	X	X	X	M	X

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 12: Annual distortion estimates, Slovenia, 1992 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barley	Beef	Egg	Maize	Milk	Pigmeat	Poultry	Sheep meat	Sugar	Wheat	All covered
1992	81	62	47	54	101	23	110	193	126	91	64
1993	116	34	23	41	102	42	93	105	136	91	57
1994	85	41	25	23	108	41	95	98	84	82	58
1995	31	68	60	11	91	38	110	243	75	49	62
1996	31	62	42	11	77	19	87	138	76	38	48
1997	56	97	41	-4	102	25	71	117	79	44	59
1998	75	112	66	4	169	56	74	151	111	94	89
1999	58	115	65	13	142	82	91	122	156	107	98
2000	62	110	27	32	85	42	69	80	83	95	69
2001	93	144	10	24	79	33	61	83	74	72	65
2002	107	152	29	3	108	33	74	72	87	81	73
2003	79	147	0	48	117	38	82	81	139	77	82
2004	0	-125	0	-25	87	36	103	47	193	na	29
2005	0	109	0	19	33	19	69	54	168	0	40
2006	0	81	0	11	25	14	69	74	62	0	32
2007	0	66	0	21	0	18	100	68	99	0	29

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.



Table 12 (continued): Annual distortion estimates, Slovenia, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Exportables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1992	9	55	64	68	83	37	68	na	na
1993	6	51	57	60	61	51	60	na	na
1994	4	54	58	61	90	42	61	na	na
1995	5	57	62	66	92	46	66	na	na
1996	6	42	48	51	74	35	51	na	na
1997	7	51	59	63	87	23	63	na	na
1998	9	80	89	95	124	53	95	na	na
1999	12	86	98	106	122	66	106	11	84
2000	16	53	69	76	81	61	76	11	58
2001	19	46	65	71	91	35	71	10	56
2002	22	51	73	80	111	33	80	1	77
2003	25	58	82	92	105	47	92	2	89
2004	0	29	29	22	37	20	27	4	22
2005	0	40	40	37	60	17	38	4	33
2006	0	32	32	31	50	11	31	4	26
2007	0	29	29	27	40	15	27	4	22

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 12 (continued): Annual distortion estimates, Slovenia, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Maize	Milk	Pigme at	Poultr y	Sheep meat	Sugar	Wheat	Non- cover ed
1992	0	13	4	3	11	19	9	0	0	3	38
1993	0	17	4	5	10	15	6	0	0	3	40
1994	1	14	3	6	10	13	5	0	1	3	44
1995	1	13	3	6	12	15	5	0	1	3	41
1996	1	11	3	6	11	15	5	0	1	3	44
1997	1	11	3	6	10	14	7	0	1	3	44
1998	1	11	3	7	11	14	8	0	1	3	42
1999	1	12	3	7	15	12	7	0	1	2	41
2000	1	9	4	5	17	13	7	0	1	3	41
2001	1	8	4	4	17	17	7	1	0	3	39
2002	1	7	3	7	16	13	6	1	0	2	44
2003	1	9	4	4	16	15	8	1	0	2	41
2004	1	11	5	7	22	19	9	1	1	na	24
2005	1	10	5	7	21	19	9	1	1	3	24
2006	1	10	5	7	21	19	9	1	1	3	24
2007	1	10	5	7	21	19	9	1	1	3	24

a. At farmgate undistorted prices.

Table 12 (continued): Annual distortion estimates, Slovenia, 1992 to 2007  
(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	Egg	Maize	Milk	Pigmeat	Poultry	Sheep meat	Sugar	Wheat
1992	M	X	X	M	X	M	X	M	M	M
1993	M	X	X	M	X	M	X	M	M	M
1994	M	M	X	M	X	M	X	M	M	M
1995	M	M	X	M	X	M	X	M	M	M
1996	M	M	X	M	X	M	X	M	M	M
1997	M	X	X	M	X	M	X	M	M	M
1998	M	X	M	M	X	M	X	M	M	M
1999	M	X	M	M	X	M	X	M	M	M
2000	M	M	M	M	X	M	X	M	M	M
2001	M	X	M	M	X	M	X	M	M	M
2002	M	X	M	M	X	M	X	M	M	M
2003	M	X	X	M	X	M	X	M	M	M
2004	M	X	M	M	X	M	X	X	M	na
2005	M	X	M	M	X	M	X	X	M	M
2006	M	X	M	M	X	M	X	X	M	M
2007	M	X	M	M	X	M	X	X	M	M

Sources: Ciaian and Swinnen (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 13: Annual distortion estimates, Turkey, 1961 to 2007  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Appl e	Barle y	Beef	Cotto n	Egg	Grap e	Hazel nut	Maiz e	Milk	Potat o	Poult ry	Rice	Shee pmea t	Sugar	Sunfl ower	Toba cco	Toma to	Whea t	All cover ed
1961	na	-12	na	-34	na	na	na	na	na	na	na	na	na	na	na	-62	na	-20	-26
1962	na	na	na	-25	na	na	na	na	na	na	na	na	na	na	na	-37	na	-7	-13
1963	na	-4	na	-22	na	na	na	na	na	na	na	na	na	na	na	-33	na	-7	-12
1964	na	-28	na	-23	na	na	na	na	na	na	na	na	na	na	na	-52	na	-10	-24
1965	na	na	na	-20	na	na	na	na	na	na	na	na	na	na	na	-51	na	-1	-13
1966	na	na	na	-17	na	-10	na	na	36	27	na	na	na	na	1	-44	-48	4	1
1967	-15	-44	na	-20	na	-20	na	na	61	7	na	na	na	na	-4	-44	14	-46	-23
1968	-34	na	na	-28	na	-15	na	na	70	-10	na	na	na	na	-14	-46	na	-64	-35
1969	-34	na	na	-18	na	0	na	-33	-14	6	na	na	na	na	-7	-52	-84	13	-18
1970	-29	na	na	-6	na	22	na	na	61	-5	na	na	na	na	-5	-38	-76	32	10
1971	-42	-5	na	-28	na	-8	na	-13	22	-25	na	na	na	na	-24	-44	na	-9	-10
1972	-44	23	na	-14	na	-9	na	na	59	11	na	na	na	na	1	-47	-74	-8	-8
1973	-41	na	na	1	na	2	na	na	57	11	na	na	na	na	-27	-31	-27	-56	-20
1974	-45	na	na	-10	na	6	na	na	37	22	na	na	na	na	-44	-31	13	-22	-7
1975	-52	na	na	24	na	-17	na	na	69	20	na	na	na	na	9	-32	-34	-24	-7
1976	-53	-10	na	24	na	-13	3	na	181	-8	na	na	na	na	-4	-32	-61	2	3
1977	-54	-22	na	-10	na	-4	-20	na	47	-18	na	na	na	na	-23	-33	-67	1	-13
1978	-54	-18	na	-52	na	3	-40	na	41	32	na	na	na	na	-48	-51	-20	na	-13
1979	-49	-36	na	-23	na	-2	-32	na	26	33	na	na	na	na	-70	-44	-2	na	-11
1980	-55	-39	na	-39	na	-2	-45	na	13	3	na	na	na	na	-59	-67	-35	na	-24
1981	-60	-37	na	-32	-18	-14	-55	na	-13	-29	na	na	na	na	-58	-64	-34	-18	-27
1982	-53	-45	na	-26	-31	-9	-44	-18	43	-15	na	na	na	na	-62	-68	-47	-27	-26
1983	-48	-42	na	-27	-24	-10	-85	-93	-27	-6	na	na	na	na	-64	-73	-41	-28	-49
1984	-43	-22	na	na	-20	-19	-55	-23	18	13	na	na	na	na	-60	na	-25	-31	-21
1985	-20	-24	na	na	-8	-7	-30	-25	62	31	na	10	na	na	-17	na	7	-14	1
1986	-14	47	51	-52	27	7	na	12	117	-6	31	-19	9	33	33	15	16	14	9

1987	-2	71	27	-49	17	-5	-68	24	64	40	42	-56	22	24	31	16	35	53	4
1988	3	-3	-7	-61	18	-10	-54	22	24	14	26	na	3	5	-4	-21	46	78	-5
1989	-30	18	8	-55	53	44	-36	27	43	38	36	175	22	-3	32	-10	63	62	10
1990	-13	55	54	-56	30	12	-31	52	154	60	57	324	25	24	36	7	20	33	17
1991	-26	63	128	-60	6	-2	-37	68	126	4	43	258	20	50	49	57	26	89	25
1992	-4	55	68	-53	72	31	-40	63	129	37	63	242	10	66	51	19	10	35	23
1993	-16	92	61	-25	34	16	-52	40	128	26	83	248	24	55	41	29	9	25	26
1994	-23	32	14	-43	20	35	-40	3	89	10	40	157	29	-13	10	75	-18	43	8
1995	12	9	62	-58	101	-6	-40	23	90	47	82	133	39	52	34	61	-31	4	4
1996	10	32	50	-58	51	-15	-26	34	102	75	43	144	8	56	68	82	14	21	14
1997	0	43	113	-57	53	12	-45	58	136	-2	26	108	8	119	66	58	4	46	19
1998	8	138	198	-32	84	33	-25	94	198	25	95	114	52	146	62	46	-13	87	43
1999	1	91	179	-42	78	0	-21	64	111	14	63	54	49	191	40	-4	-36	77	25
2000	3	37	145	-39	79	26	-12	46	78	32	56	100	33	125	37	-20	-1	30	23
2001	-19	5	80	-20	32	-8	-21	7	11	46	19	69	-15	41	27	-31	-16	-4	1
2002	-1	6	118	-22	36	30	7	18	56	174	47	123	9	93	7	-16	-19	15	19
2003	-1	29	195	-42	19	30	9	61	86	145	53	99	21	155	14	6	5	64	33
2004	16	37	125	-57	87	67	na	69	53	194	75	na	7	167	12	2	-20	24	24
2005	92	51	102	-45	121	44	na	68	29	315	66	na	14	136	23	16	-31	39	26
2006	89	30	92	-18	64	49	na	93	45	211	48	na	34	30	49	20	-40	33	35
2007	103	-10	79	2	79	60	na	54	4	126	50	na	44	120	31	-9	-30	44	27

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.

Table 13 (continued): Annual distortion estimates, Turkey, 1961 to 2007  
 (b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries  
 (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1961	0	-26	-26	-26	-34	-20	-26	100	-63
1962	0	-13	-13	-13	-29	-7	-13	24	-30
1963	0	-12	-12	-12	-19	-7	-12	33	-34
1964	0	-24	-24	-24	-37	-10	-24	86	-59
1965	0	-13	-13	-13	-35	-1	-13	101	-57
1966	0	1	1	1	-20	17	1	123	-55
1967	0	-23	-23	-23	-26	-21	-23	267	-79
1968	0	-35	-35	-35	-25	-40	-35	100	-68
1969	0	-18	-18	-18	-36	-4	-18	113	-62
1970	0	10	10	12	-21	43	12	75	-36
1971	0	-10	-10	-8	-22	2	-8	69	-46
1972	0	-8	-8	-6	-27	16	-6	41	-33
1973	0	-20	-20	-18	-10	-26	-18	39	-41
1974	0	-7	-7	-5	-9	-5	-5	24	-23
1975	0	-7	-7	-6	-17	1	-6	17	-20
1976	0	3	3	4	-22	40	4	20	-14
1977	0	-13	-13	-12	-31	17	-12	25	-30
1978	0	-13	-13	-12	-26	32	-12	94	-55
1979	0	-11	-11	-10	-19	9	-10	122	-60
1980	0	-24	-24	-23	-33	1	-23	52	-50
1981	0	-27	-27	-27	-35	-18	-27	42	-49
1982	0	-26	-26	-26	-38	-12	-26	24	-40
1983	0	-49	-49	-49	-49	-50	-49	23	-59
1984	0	-21	-21	-13	-23	-19	-13	23	-29
1985	0	1	1	11	-5	8	11	23	-10
1986	6	3	9	14	-4	31	14	23	-8
1987	6	-2	4	10	-9	34	10	21	-9
1988	6	-11	-5	1	-20	30	1	19	-15
1989	6	4	10	17	-4	40	17	16	0
1990	5	12	17	22	1	54	22	14	7
1991	5	19	25	31	-2	95	31	12	17
1992	6	17	23	30	4	64	30	10	18
1993	6	20	26	32	13	53	32	8	22
1994	7	1	8	15	-3	35	15	6	9
1995	7	-3	4	11	-10	39	11	4	6
1996	7	8	14	21	-1	46	21	2	18
1997	7	12	19	27	-7	81	27	2	24
1998	7	37	43	49	12	128	49	1	48
1999	6	19	25	32	-3	109	32	1	30
2000	3	20	23	26	5	67	26	1	25
2001	1	0	1	2	-8	17	2	1	1
2002	0	19	19	20	6	43	20	1	19
2003	0	33	33	34	8	90	34	1	33
2004	0	24	24	24	5	53	15	1	14
2005	0	26	26	31	11	50	18	0	17
2006	0	35	32	22	26	60	28	0	28
2007	0	27	25	18	29	25	25	0	24

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 13 (continued): Annual distortion estimates, Turkey, 1961 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Appl e	Barle y	Beef	Cotto n	Egg	Grap e	Hazel nut	Maiz e	Milk	Potat o	Poult ry	Rice	Shee pmea t	Sugar	Sunfl ower	Toba cco	Toma to	Whea t	Non- cover ed
1961	na	15	na	15	na	na	na	na	na	na	na	na	na	na	na	11	na	58	0
1962	na	na	na	17	na	na	na	na	na	na	na	na	na	na	na	11	na	72	0
1963	na	16	na	12	na	na	na	na	na	na	na	na	na	na	na	15	na	57	0
1964	na	16	na	14	na	na	na	na	na	na	na	na	na	na	na	23	na	47	0
1965	na	na	na	18	na	na	na	na	na	na	na	na	na	na	na	17	na	64	0
1966	na	na	na	6	na	10	na	na	14	2	na	na	na	na	1	6	3	21	37
1967	2	7	na	4	na	7	na	na	9	2	na	na	na	na	1	5	1	28	34
1968	2	na	na	5	na	7	na	na	7	3	na	na	na	na	1	3	na	34	38
1969	2	na	na	4	na	7	na	2	18	3	na	na	na	na	1	4	8	15	36
1970	3	na	na	5	na	8	na	na	13	4	na	na	na	na	2	4	7	16	37
1971	3	5	na	7	na	8	na	2	13	4	na	na	na	na	2	4	na	20	34
1972	3	3	na	7	na	7	na	na	10	3	na	na	na	na	2	4	8	17	36
1973	3	na	na	5	na	7	na	na	9	3	na	na	na	na	2	2	3	26	41
1974	3	na	na	9	na	7	na	na	10	2	na	na	na	na	1	4	2	22	39
1975	3	na	na	4	na	7	na	na	9	2	na	na	na	na	1	5	3	27	38
1976	3	5	na	4	na	7	1	na	6	4	na	na	na	na	1	8	5	19	36
1977	3	4	na	5	na	7	2	na	9	3	na	na	na	na	1	5	10	14	38
1978	5	4	na	7	na	9	2	na	12	3	na	na	na	na	1	7	7	na	43
1979	5	6	na	5	na	8	3	na	13	3	na	na	na	na	3	4	4	na	47
1980	4	5	na	5	na	10	3	na	13	3	na	na	na	na	3	6	6	na	43
1981	3	5	na	4	2	7	3	na	12	3	na	na	na	na	2	2	4	15	37
1982	3	6	na	4	2	6	2	1	6	2	na	na	na	na	2	5	4	17	40
1983	2	3	na	3	1	4	7	9	8	2	na	na	na	na	2	4	3	10	43
1984	3	5	na	na	2	6	2	1	8	3	na	na	na	na	2	na	5	16	47
1985	2	5	na	na	2	6	1	2	8	3	na	1	na	na	2	na	5	14	49
1986	2	2	2	7	1	4	na	1	2	3	1	1	3	1	1	2	4	9	54



1987	1	2	3	8	1	5	5	1	2	2	1	1	3	1	1	3	3	5	52
1988	2	3	3	9	1	4	4	1	3	2	1	na	3	1	1	4	3	5	51
1989	2	2	3	10	1	4	4	1	4	2	1	0	3	2	1	5	3	6	45
1990	2	2	2	9	1	5	2	1	2	3	1	0	3	2	1	4	6	8	48
1991	3	2	2	9	1	6	2	1	3	3	1	0	3	2	1	3	5	6	47
1992	2	2	3	7	1	5	3	1	3	2	1	0	4	2	1	5	5	7	45
1993	2	2	4	4	1	5	2	1	3	3	1	0	3	2	1	4	7	8	46
1994	3	2	4	7	2	5	5	1	3	2	2	0	3	2	1	2	7	5	46
1995	2	2	3	11	1	4	3	1	3	3	1	0	2	1	1	2	5	6	50
1996	2	3	3	9	1	5	3	1	3	1	2	0	3	2	1	2	6	9	45
1997	2	3	2	10	2	3	4	1	3	3	2	0	3	2	1	3	5	8	42
1998	3	2	2	8	1	4	5	1	2	4	2	0	2	2	1	2	8	7	44
1999	3	2	2	7	1	5	4	1	3	4	2	0	2	1	1	3	9	5	45
2000	3	2	2	8	1	4	3	1	4	3	2	0	2	2	1	2	7	7	45
2001	3	3	2	6	1	4	3	1	5	2	2	0	2	1	1	1	6	8	46
2002	3	3	2	7	1	4	2	1	4	1	2	0	2	2	1	2	7	8	47
2003	3	3	2	8	2	4	2	1	4	1	2	0	2	1	1	1	9	7	46
2004	2	3	3	9	1	4	na	1	7	1	2	na	2	1	1	1	9	9	44
2005	2	3	4	7	1	4	na	1	7	1	3	na	2	1	1	1	11	8	43
2006	2	4	4	4	1	6	na	1	9	1	4	na	3	2	1	1	7	8	42
2007	2	4	3	4	1	3	na	1	11	2	4	na	3	1	1	1	9	8	42

a. At farmgate undistorted prices.

Table 13 (continued): Annual distortion estimates, Turkey, 1961 to 2007  
(d) Trade status<sup>a</sup> of covered products

	Appl e	Barle y	Beef	Cotto n	Egg	Grap e	Hazel nut	Maiz e	Milk	Potat o	Poult ry	Rice	Shee pmea t	Sugar	Sunfl ower	Toba cco	Toma to	Whea t
1961	na	X	na	X	na	na	na	na	na	na	na	na	na	na	na	X	na	M
1962	na	na	na	X	na	na	na	na	na	na	na	na	na	na	na	X	na	M
1963	na	X	na	X	na	na	na	na	na	na	na	na	na	na	na	X	na	M
1964	na	X	na	X	na	na	na	na	na	na	na	na	na	na	na	X	na	M
1965	na	na	na	X	na	na	na	na	na	na	na	na	na	na	na	X	na	M
1966	na	na	na	X	na	X	na	na	M	X	na	na	na	na	M	X	X	M
1967	X	X	na	X	na	X	na	na	M	X	na	na	na	na	M	X	X	M
1968	X	na	na	X	na	X	na	na	M	X	na	na	na	na	M	X	na	M
1969	X	na	na	X	na	X	na	na	M	M	X	na	na	na	M	X	X	M
1970	X	na	na	X	na	X	na	na	M	X	na	na	na	na	M	X	X	M
1971	X	X	na	X	na	X	na	na	M	M	X	na	na	na	M	X	na	M
1972	X	X	na	X	na	X	na	na	M	X	na	na	na	na	M	X	X	M
1973	X	na	na	X	na	X	na	na	M	X	na	na	na	na	M	X	X	M
1974	X	na	na	X	na	X	na	na	M	X	na	na	na	na	M	X	X	M
1975	X	na	na	X	na	X	na	na	M	X	na	na	na	na	M	X	X	M
1976	X	X	na	X	na	X	X	na	M	X	na	na	na	na	M	X	X	M
1977	X	X	na	X	na	X	X	na	M	X	na	na	na	na	M	X	X	M
1978	X	X	na	X	na	X	X	na	M	X	na	na	na	na	M	X	X	na
1979	X	X	na	X	na	X	X	na	M	X	na	na	na	na	M	X	X	na
1980	X	X	na	X	na	X	X	na	M	X	na	na	na	na	M	X	X	na
1981	X	X	na	X	X	X	X	na	M	X	na	na	na	na	M	X	X	M
1982	X	X	na	X	X	X	X	M	M	X	na	na	na	na	M	X	X	M
1983	X	X	na	X	X	X	X	M	M	X	na	na	na	na	M	X	X	M
1984	X	X	na	na	X	X	X	M	M	X	na	na	na	na	M	na	X	M
1985	X	X	na	na	X	X	X	M	M	X	na	M	na	na	M	na	X	M
1986	X	X	M	X	X	X	na	M	M	X	X	M	X	M	M	X	X	M

1987	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1988	X	X	M	X	X	X	X	M	M	X	X	na	X	M	M	X	X	M
1989	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1990	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1991	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1992	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1993	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1994	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1995	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1996	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1997	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1998	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
1999	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
2000	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
2001	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
2002	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
2003	X	X	M	X	X	X	X	M	M	X	X	M	X	M	M	X	X	M
2004	X	X	M	X	X	X	na	M	M	X	X	na	X	M	M	X	X	M
2005	X	X	M	X	X	X	na	M	M	X	X	na	X	M	M	X	X	M
2006	X	X	M	X	X	X	na	M	M	X	X	na	X	X	M	X	X	X
2007	X	X	M	X	X	X	na	M	M	X	X	na	X	X	M	X	X	X

Sources: Burrell and Kurzweil (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 14: Annual distortion estimates, Ukraine, 1992 to 2005  
(a) Nominal rates of assistance<sup>a</sup> to covered products

(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Pigme at	Potato	Poultr y	Rye	Sugar	Sunfl ower	Wheat	All cover ed
1992	-59	-19	-40	-19	-49	-61	-63	na	-48	-40	12	-47	-68	-55
1993	28	41	-9	76	8	-6	-42	na	6	9	4	15	-34	-8
1994	17	-19	12	45	-34	416	-36	na	15	161	3	13	75	-13
1995	-27	-49	9	-24	-48	154	-51	na	-15	49	-49	-28	-34	-47
1996	-8	-15	92	-9	-36	34	1	-3	-1	30	181	-21	-45	-23
1997	-5	11	75	-23	-7	27	-9	-57	45	8	21	-22	104	4
1998	14	-14	88	-16	-3	-23	37	-75	70	18	-1	-31	16	-1
1999	-21	-13	42	9	-30	43	16	-65	0	41	0	-33	-16	-21
2000	-14	7	-9	-20	-35	40	1	-57	53	11	15	-29	-43	-27
2001	-18	6	-7	-6	-30	12	39	-46	44	37	28	5	-2	-11
2002	-20	-8	-30	-6	-32	3	13	21	94	-4	43	-34	-9	-20
2003	9	10	-47	14	-19	84	-30	10	66	17	63	-25	-38	-18
2004	-10	-17	-38	-25	-17	12	-6	-20	59	2	29	-9	-21	-21
2005	-13	19	24	-6	-5	31	64	na	86	-14	55	na	-1	10

a. NRA estimates are taken from authors' calculations where available, and are supplemented with estimates based on OECD PSE values.

Table 14 (continued): Annual distortion estimates, Ukraine, 1992 to 2005

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables NRA	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All		
	Inputs	Outputs							
1992	-7	-47	-48	-46	-50	-22	-46	3	-47
1993	-8	0	0	1	-1	5	1	2	-1
1994	-8	-5	-5	-2	-7	6	-2	2	-4
1995	-8	-39	-39	-38	-39	-42	-38	2	-39
1996	-7	-16	-16	-13	-23	82	-13	2	-15
1997	-8	11	11	13	9	29	14	3	11
1998	-8	7	7	9	5	21	10	3	7
1999	-7	-14	-14	-12	-15	0	-12	4	-15
2000	-7	-20	-20	-19	-17	-27	-19	4	-22
2001	-7	-4	-4	-3	-7	35	-3	3	-6
2002	-7	-14	-14	-13	-18	64	-13	3	-16
2003	-7	-11	-11	-10	-14	4	-10	3	-13
2004	-7	-14	-14	-13	-18	43	-15	3	-18
2005	0	10	4	8	3	77	8	3	5

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 14 (continued): Annual distortion estimates, Ukraine, 1992 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barle y	Beef	Egg	Maize	Milk	Oat	Pigme at	Potato	Poultr y	Rye	Sugar	Sunfl ower	Wheat	Barle y	Beef	Non- cover ed
1992	5	11	3	2	12	1	9	na	3	1	2	3	14	5	11	36
1993	6	10	4	3	12	1	9	na	2	1	7	3	15	6	10	26
1994	4	11	4	2	17	0	11	na	2	0	7	2	5	4	11	34
1995	2	8	2	2	15	0	8	na	2	0	8	3	7	2	8	43
1996	4	11	2	2	25	1	9	0	3	1	2	3	19	4	11	17
1997	6	10	3	6	21	1	14	0	3	1	5	4	8	6	10	16
1998	3	13	3	2	23	1	11	0	3	1	6	6	11	3	13	18
1999	5	11	3	2	26	1	8	0	4	0	4	7	11	5	11	18
2000	6	8	4	4	21	1	8	0	2	1	3	5	17	6	8	23
2001	8	8	4	3	20	1	7	0	2	1	3	3	14	8	8	26
2002	6	7	4	3	18	1	6	0	1	1	2	7	11	6	7	33
2003	5	7	7	7	20	1	8	0	2	0	2	8	6	5	7	25
2004	6	5	6	6	17	1	5	0	2	1	2	5	13	6	5	32
2005	7	5	6	4	20	0	4	na	3	0	2	na	12	7	5	36

a. At farmgate undistorted prices.

Table 14 (continued): Annual distortion estimates, Ukraine, 1992 to 2005  
(d) Trade status<sup>a</sup> of covered products

	Barley	Beef	Egg	Maize	Milk	Oat	Pigme at	Potato	Poultr y	Rye	Sugar	Sunfl ower	Wheat
1992	X	X	X	X	X	X	X	na	M	X	M	X	X
1993	X	X	X	X	X	X	X	na	M	X	M	X	X
1994	X	X	X	X	X	X	X	na	M	X	M	X	X
1995	X	X	X	X	X	X	X	na	M	X	M	X	X
1996	X	X	X	X	X	X	X	H	M	X	M	X	X
1997	X	X	X	X	X	X	X	H	M	X	M	X	X
1998	X	X	X	X	X	X	X	H	M	X	M	X	X
1999	X	X	X	X	X	X	X	H	M	X	M	X	X
2000	X	X	X	X	X	X	X	H	M	X	M	X	M
2001	X	X	X	X	X	X	X	H	M	X	M	X	X
2002	X	X	X	X	X	X	X	H	M	X	M	X	X
2003	X	X	X	X	X	X	X	H	M	X	M	X	M
2004	X	X	X	X	X	X	X	H	M	X	M	X	X
2005	X	X	X	X	X	X	X	na	M	X	M	na	X

Sources: von Cramon et al. (2007) and OECD (2007)

a. Exportable (X), import-competing (M) and nontradables (H).

b. Trade status is endogenously determined where the NRA is based on OECD information

Table 15: Annual distortion estimates, Europe's transition economies, 1992 to 2007

(a) Nominal rates of assistance to covered products

	(percent)													
	Apple	Barley	Beef	Cotton	Egg	Grape	Hazelnut	Maize	Milk	Oat	Oilseed	Other grains	Pigmeat	Potato
1992	-4	-7	-19	-53	-8	31	-40	6	-14	-37	17	3	-33	34
1993	-16	24	-10	-25	-4	16	-52	50	9	-22	23	26	-5	24
1994	-23	8	-20	-43	24	35	-40	14	6	16	37	9	9	6
1995	12	-21	-14	-58	53	-6	-40	-6	25	0	11	5	0	34
1996	10	4	3	-58	40	-15	-26	1	31	27	24	26	1	62
1997	0	7	34	-57	51	12	-45	-1	50	19	8	25	0	2
1998	8	47	27	-32	60	33	-25	6	62	-3	14	23	32	22
1999	1	4	14	-42	42	0	-21	8	30	-14	9	24	29	13
2000	3	0	12	-39	11	26	-12	8	18	5	26	29	2	28
2001	-19	-9	35	-20	14	-8	-21	18	12	-26	13	6	24	28
2002	-1	-10	44	-22	2	30	7	0	30	-55	9	5	22	101
2003	-1	0	51	-42	-18	30	9	38	39	-33	16	15	1	84
2004	16	5	16	-57	12	67	na	25	46	-17	0	na	34	105
2005	na	-7	30	na	18	na	na	9	8	-6	0	na	45	10
2006	89	16	78	-18	39	49	na	16	42	7	0	na	30	40
2007	103	-4	74	2	20	60	na	28	2	0	0	na	18	28



	Poultr y	Rapes eed	Rice	Rye	Sheep meat	Soybe an	Sugar	Sunfl ower	Tobac co	Tomat o	Wheat	Wine	All cover ed
1992	2	18	242	-25	5	24	44	-24	19	10	-26	na	-12
1993	21	-3	248	-23	4	89	36	-10	29	9	-2	na	12
1994	38	-25	157	19	4	45	14	-9	75	-18	17	na	14
1995	42	-19	133	29	26	20	-1	-11	61	-31	-12	na	5
1996	38	5	144	34	-7	22	79	-7	82	14	0	na	14
1997	42	-9	108	24	-4	0	71	-10	58	4	20	na	21
1998	57	-9	114	5	32	-15	86	-14	46	-13	24	na	31
1999	33	0	54	-9	21	-9	85	-20	-4	-36	9	na	13
2000	43	4	100	27	10	-4	69	-18	-20	-1	-4	na	6
2001	53	14	69	1	-11	28	43	2	-31	-16	0	na	-89
2002	64	13	123	-37	5	19	75	-20	-16	-19	-2	na	12
2003	50	53	99	-31	11	-7	103	-18	6	5	15	na	16
2004	89	0	na	8	3	-2	114	-2	2	-20	5	na	19
2005	84	0	2	-11	-35	-6	79	-3	na	0	-5	2	18
2006	61	0	3	na	11	-9	41	7	20	-35	11	1	22
2007	72	0	1	na	49	0	114	10	-9	-24	14	1	15

Table 15 (continued): Annual distortion estimates, Europe's transition economies, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Exportables	Import-competing	All		
	Inputs	Outputs							
1992	5	-17	-8	-9	-18	-5	-9	8	-16
1993	6	3	10	10	5	7	10	8	3
1994	10	3	6	12	-2	12	12	7	5
1995	7	-1	0	5	-15	19	6	6	-1
1996	6	9	14	16	-4	29	16	5	11
1997	4	17	20	24	0	44	24	6	17
1998	4	28	33	37	13	52	37	5	30
1999	4	12	16	19	2	32	19	4	14
2000	2	7	13	14	-1	19	13	5	8
2001	2	10	10	13	-6	29	13	5	7
2002	3	14	15	17	-2	44	17	5	11
2003	3	17	20	21	-3	43	19	5	13
2004	1	22	23	21	6	43	14	4	10
2005	0	17	23	18	6	31	11	4	6
2006	0	26	na	18	19	43	20	2	17
2007	0	18	na	14	18	18	16	2	14

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 15 (continued): Annual distortion estimates, Europe's transition economies, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	apple	barley	beef	cotton	egg	grape	hazelnut	maize	milk	oat	oilseed	othergrains	pigmeat	potato
1992	1	4	7	2	3	1	1	2	10	1	0	1	11	1
1993	1	3	8	1	3	1	1	2	10	1	0	1	9	1
1994	1	3	8	2	3	1	1	2	11	1	0	1	8	1
1995	1	3	7	3	2	1	1	2	10	1	0	1	8	1
1996	1	3	7	3	3	1	1	3	11	1	0	1	9	1
1997	1	4	6	3	3	1	1	3	10	1	0	1	9	1
1998	1	2	6	3	3	1	2	2	10	0	0	1	8	1
1999	1	3	6	2	3	2	1	3	11	0	0	1	6	1
2000	1	3	5	2	3	1	1	2	12	0	0	1	7	1
2001	1	4	5	2	3	1	1	3	13	1	0	1	7	1
2002	1	3	4	2	4	1	1	3	12	1	0	1	7	1
2003	1	3	4	2	5	1	0	3	11	1	0	1	7	1
2004	1	3	5	3	4	1	na	3	12	1	0	na	6	1
2005	na	4	6	na	4	na	na	4	13	1	0	na	8	2
2006	1	3	3	2	2	3	na	4	8	0	0	na	5	3
2007	1	5	2	2	3	2	na	3	10	1	0	na	4	5

	poultr y	rapese ed	rice	rye	sheep meat	soybe an	sugar	sunflo wer	tobacc o	tomat o	wheat	wine	Non- cover ed
1992	3	0	0	1	1	0	2	2	1	1	10	na	34
1993	3	0	0	1	1	0	2	2	1	2	10	na	35
1994	3	0	0	0	1	0	2	1	0	2	7	na	38
1995	2	0	0	0	1	0	2	2	0	2	8	na	42
1996	3	0	0	1	1	0	2	1	1	2	11	na	36
1997	3	0	0	1	1	0	2	1	1	1	11	na	35
1998	3	0	0	0	1	0	2	2	1	3	8	na	38
1999	3	0	0	0	1	0	1	2	1	3	8	na	39
2000	3	0	0	0	1	0	1	2	1	2	10	na	39
2001	3	0	0	1	1	0	2	1	0	2	12	na	37
2002	3	0	0	1	1	0	1	2	0	2	10	na	40
2003	3	0	0	0	1	0	1	2	0	2	8	na	43
2004	3	0	na	0	1	0	1	2	0	2	11	na	41
2005	3	1	0	0	0	0	1	1	na	0	10	1	41
2006	3	1	0	na	2	0	1	2	0	3	8	1	43
2007	3	2	0	na	1	0	1	2	0	5	10	2	37

a. At farmgate undistorted prices.

Source: Anderson and Valenzuela (2008)

Table 16: Annual distortion estimates, CEE-10, 1992 to 2007  
(a) Nominal rates of assistance to covered products

(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Oilseed	Pigmeat	Potato	Poultry	Rape seed	Rice	Rye	Sheepmeat	Soybean	Sugar	Sunflower	Tomato	Wheat	Wine	All covered
1992	-11	10	33	7	4	-29	17	-19	23	34	18	na	0	-5	24	65	-24	na	-3	na	0
1993	38	-7	34	50	22	6	23	6	15	29	-3	na	-24	-32	89	49	-23	na	22	na	16
1994	16	-2	48	7	21	-10	37	18	-7	49	-25	na	-14	-36	45	39	-22	na	10	na	15
1995	-21	2	60	-9	26	-4	11	3	-2	40	-19	na	16	-3	20	40	-20	na	-14	na	7
1996	-10	10	38	-4	25	14	24	-6	17	37	5	na	11	-38	22	50	-11	na	5	na	9
1997	-4	3	49	-4	35	36	8	-11	52	33	-9	na	27	-29	0	58	-19	na	1	na	8
1998	24	22	83	-4	77	36	14	27	3	54	-9	na	57	-5	-15	85	-16	na	12	na	33
1999	1	2	78	2	45	52	9	29	9	37	0	na	86	-31	-9	98	-16	na	11	na	25
2000	-5	-6	40	9	38	62	26	0	35	31	4	na	41	-38	-4	95	-4	na	16	na	17
2001	4	18	39	22	37	75	13	12	21	44	14	na	22	-2	28	71	-10	na	16	na	23
2002	7	18	22	0	49	1	9	9	83	62	13	na	-9	-7	19	90	-10	na	7	na	22
2003	4	7	2	51	59	66	16	-6	86	48	53	na	7	-12	-7	119	-13	na	16	na	24
2004	12	-79	31	44	97	42	0	37	10	112	0	na	na	-5	-2	194	-12	na	12	na	41
2005	1	87	38	20	35	29	0	35	10	69	0	2	na	-35	-6	170	-3	0	0	2	25
2006	0	64	34	5	40	7	0	30	10	73	0	3	na	-43	-9	67	-5	0	-5	1	20
2007	0	66	0	21	0	0	0	18	10	100	0	1	na	68	0	99	0	0	0	1	11

Table 16 (continued): Annual distortion estimates, CEE-10, 1992 to 2007

(b) Nominal and relative rates of assistance to all<sup>a</sup> agricultural products, to exportable<sup>b</sup> and import-competing<sup>b</sup> agricultural industries, and relative<sup>c</sup> to non-agricultural industries (percent)

	Total ag NRA				Ag tradables NRA			Non-ag tradables	
	Covered products		Non-covered products	All products (incl NPS)	Export-ables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1992	4	-2	na	0	-9	13	0	5	-4
1993	4	16	na	19	11	21	19	7	12
1994	5	15	na	18	6	23	19	6	13
1995	4	6	na	9	-3	20	9	6	3
1996	4	8	na	11	2	24	11	5	6
1997	3	7	na	11	3	20	11	6	4
1998	5	33	na	38	18	54	38	5	31
1999	5	24	na	29	15	42	29	2	26
2000	5	17	na	20	4	31	21	3	17
2001	5	22	na	25	2	41	25	4	20
2002	6	21	na	24	10	50	24	5	18
2003	6	23	na	26	2	48	26	5	20
2004	2	41	na	36	38	56	35	4	30
2005	0	25	na	26	17	52	18	3	14
2006	0	20	na	15	12	33	13	4	9
2007	0	11	na	11	11	12	10	4	6

a. NRAs including assistance to nontradables and non-product specific assistance.

b. NRAs including products specific input subsidies.

c. The Relative Rate of Assistance (RRA) is defined as  $100 * [(100 + \text{NRA}_{\text{ag}}^t) / (100 + \text{NRA}_{\text{nonag}}^t) - 1]$ , where  $\text{NRA}_{\text{ag}}^t$  and  $\text{NRA}_{\text{nonag}}^t$  are the percentage NRAs for the tradables parts of the agricultural and non-agricultural sectors, respectively.

Table 16 (continued): Annual distortion estimates, CEE-10, 1992 to 2007  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Barley	Beef	Egg	Maize	Milk	Oat	Oilseed	Pigmeat	Potato	Poultry	Rape seed	Rice	Rye	Sheepmeat	Soybean	Sugar	Sunflower	Tomato	Wheat	Wine	Non-covered
1992	2	6	3	4	12	0	0	22	0	4	0	na	0	1	0	1	1	na	7	na	34
1993	2	7	3	4	11	0	0	16	0	3	0	na	0	2	0	2	1	na	8	na	39
1994	2	7	3	5	11	0	0	15	1	3	0	na	0	1	0	1	1	na	8	na	39
1995	2	5	2	5	11	0	1	15	1	3	0	na	0	1	0	2	1	na	9	na	42
1996	2	5	3	6	11	0	0	16	0	4	0	na	0	1	0	2	1	na	9	na	39
1997	3	5	3	6	10	0	0	17	0	4	1	na	0	1	0	2	1	na	10	na	37
1998	2	6	3	5	11	0	1	16	0	4	1	na	0	1	0	2	2	na	9	na	38
1999	2	5	3	7	13	0	1	13	0	5	1	na	0	1	0	1	2	na	8	na	40
2000	2	4	3	4	13	0	1	14	0	4	1	na	0	1	0	1	1	na	8	na	41
2001	2	3	3	6	14	0	1	14	0	5	1	na	0	1	0	1	1	na	10	na	39
2002	2	3	3	6	12	0	1	13	0	4	1	na	0	1	0	1	2	na	8	na	41
2003	2	3	4	5	12	0	1	14	0	5	1	na	0	1	0	1	2	na	6	na	42
2004	2	3	4	7	11	0	0	13	0	4	1	na	na	1	0	1	3	na	10	na	39
2005	3	3	3	6	6	0	0	11	4	3	2	0	na	1	0	0	2	1	9	1	43
2006	3	3	3	6	7	1	0	9	4	3	2	0	na	1	0	1	3	1	8	1	45
2007	5	2	3	4	9	1	0	8	7	3	3	0	na	0	0	0	2	2	13	3	34

a. At farmgate undistorted prices.

Source: Anderson and Valenzuela (2008)

Table 17: Shares of the global value of production and consumption of key agricultural products, Europe's transition economies, 2000-04  
(percent)

		Bulgaria	Estonia	Hungary	Latvia	Lithuania	Poland	Romania	Russia	Slovakia	Slovenia	Turkey	Ukraine	CzechRep	Regional	World
<b>Grains</b>	<b>Q</b>	<b>0.2</b>	<b>0.0</b>	<b>0.4</b>	<b>0.0</b>	<b>0.1</b>	<b>0.4</b>	<b>0.6</b>	<b>2.0</b>	<b>0.1</b>	<b>0.0</b>	<b>1.3</b>	<b>1.0</b>	<b>0.2</b>	<b>6.2</b>	<b>100</b>
	<b>C</b>	<b>0.1</b>	<b>0.0</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>	<b>0.5</b>	<b>0.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.8</b>	<b>0.4</b>	<b>0.1</b>	<b>3.1</b>	<b>100</b>
Rice	Q											0.1			0.1	100
	C											0.1			0.1	100
Wheat	Q	0.5	0.0	0.5	0.1	0.2	1.3	0.8	4.8	0.2	0.0	3.4	2.0	0.5	14.3	100
	C	0.2	0.0	0.2	0.0	0.1	0.5	0.4	1.7	0.1	0.0	1.4	0.6	0.2	5.3	100
Maize	Q	0.2		0.9			0.2	1.5	0.4	0.1	0.0	0.4	0.9		4.6	100
	C	0.3		0.9			0.3	3.7	0.6	0.1	0.1	1.3	1.0		8.4	100
Cassava	Q															100
	C															100
Barley	Q	0.6	0.2	0.7	0.1	0.5		0.7	8.5	0.4	0.0	5.5	4.8	1.3	23.3	100
	C	0.5	0.2	0.7	0.2	0.7		1.0	7.7	0.4	0.1	7.2	3.4	1.2	23.2	100
Oat	Q		0.2		0.3	0.3		1.2	22.6	0.1			3.0		27.8	100
	C		0.3		0.3	0.4		2.0	17.1	0.1			3.7		24.0	100
Chickpea	Q															100
	C															100
<b>Oilseeds</b>	<b>Q</b>	<b>0.2</b>		<b>0.2</b>			<b>0.2</b>	<b>0.4</b>	<b>1.0</b>	<b>0.1</b>		<b>0.3</b>	<b>0.9</b>	<b>0.2</b>	<b>3.6</b>	<b>100</b>
	<b>C</b>	<b>0.2</b>		<b>0.2</b>			<b>0.2</b>	<b>0.4</b>	<b>0.9</b>	<b>0.1</b>		<b>0.4</b>	<b>0.7</b>	<b>na</b>	<b>3.3</b>	<b>100</b>
Soybean	Q							0.1							0.1	100
	C							0.1							0.1	100
Rapeseed	Q						2.0	0.1		0.3				1.6	4.1	100
	C						#VALUE!	na		na				na	na	100
Sunflower	Q	3.1		2.8			na	4.5	12.4	0.6		3.8	11.8		39.1	100
	C	2.1		3.1				4.5	11.9	0.4		5.7	9.8		37.4	100
Sesame	Q															100
	C															100
<b>Tropical crops</b>	<b>Q</b>	<b>0.0</b>		<b>0.0</b>	<b>0.1</b>	<b>0.2</b>	<b>0.2</b>	<b>0.0</b>	<b>0.5</b>	<b>0.0</b>	<b>0.0</b>	<b>3.9</b>	<b>0.4</b>	<b>0.1</b>	<b>5.3</b>	<b>100</b>
	<b>C</b>	<b>0.0</b>		<b>0.1</b>	<b>0.1</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>1.6</b>	<b>0.0</b>	<b>0.0</b>	<b>8.1</b>	<b>0.4</b>	<b>0.1</b>	<b>10.8</b>	<b>100</b>
Sugar	Q	0.0		0.1	0.3	0.5	0.5	0.0	1.4	0.1	0.0	1.6	1.2	0.3	6.1	100
	C	0.0		0.3	0.4	0.5	0.5	0.2	5.3	0.1	0.0	1.4	1.4	0.3	10.5	100
Cotton	Q											14.2			14.2	100
	C											31.6			31.6	100



<b>Livestock products</b>	<b>Q</b>	<b>0.1</b>	<b>0.0</b>	<b>0.3</b>	<b>0.0</b>	<b>0.1</b>	<b>1.0</b>	<b>0.4</b>	<b>2.0</b>	<b>0.1</b>	<b>0.0</b>	<b>0.7</b>	<b>0.9</b>	<b>0.2</b>	<b>6.1</b>	<b>100</b>
	<b>C</b>	<b>0.1</b>	<b>0.0</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.4</b>	<b>0.2</b>	<b>1.3</b>	<b>0.1</b>	<b>0.0</b>	<b>0.4</b>	<b>0.4</b>	<b>0.1</b>	<b>3.2</b>	<b>100</b>
Pigmeat	Q	0.1	0.0	0.5	0.0	0.1	2.1	0.6	1.6	0.1	0.1		0.7	0.4	6.4	100
	C	0.0	0.0	0.1	0.0	0.0	0.2	0.1	0.4	0.0	0.0		0.1	0.1	1.2	100
Milk	Q	0.3	0.1	0.3	0.1	0.3	1.6	0.7	4.2	0.1	0.1	1.3	2.1	0.4	11.6	100
	C	0.2	0.1	0.3	0.1	0.3	1.6	0.8	4.0	0.1	0.1	1.3	1.7	0.4	11.0	100
Beef	Q	0.1	0.0	0.1	0.0	0.1	0.4	0.3	2.1	0.1	0.0	0.8	0.9	0.2	4.9	100
	C	0.1	0.0	0.1	0.0	0.1	0.3	0.4	4.3	0.1	0.1	1.2	1.2	0.2	8.1	100
Poultry	Q	0.1	0.0	0.6	0.0	0.0	0.8	0.3	1.3	0.1	0.1	1.0	0.4	0.2	4.8	100
	C	0.0	0.0	0.2	0.0	0.0	0.2	0.1	1.1	0.0	0.0	0.3	0.2	0.1	2.2	100
Egg	Q	0.1	0.0	0.1	0.0	0.0	0.3	0.3	1.6	0.0	0.0	0.4	0.5	0.1	3.4	100
	C	0.1	0.0	0.2	0.0	0.0	0.3	0.4	2.1	0.1	0.0	0.5	0.6	0.2	4.6	100
Sheepmeat	Q	0.3		0.1			0.0	0.6			0.0	2.1			3.1	100
	C	0.3		0.1			0.0	0.7			0.0	2.9			4.1	100
<b>Total of above products</b>	<b>Q</b>	<b>0.2</b>	<b>0.0</b>	<b>0.3</b>	<b>0.0</b>	<b>0.1</b>	<b>0.7</b>	<b>0.5</b>	<b>1.8</b>	<b>0.1</b>	<b>0.0</b>	<b>1.1</b>	<b>0.9</b>	<b>0.2</b>	<b>5.9</b>	<b>100</b>
	<b>C</b>	<b>0.1</b>	<b>0.0</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.3</b>	<b>0.3</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.8</b>	<b>0.4</b>	<b>0.1</b>	<b>3.5</b>	<b>100</b>
<b>Production only</b>																
All covered	Q	0.2	0.0	0.3	0.0	0.1	0.8	0.5	2.0	0.1	0.0	1.9	1.0	0.2	7.2	100
Non-covered	Q	0.3	0.0	0.2	0.1	0.1	1.5	0.7	2.6	0.1	0.0	3.3	0.8	0.2	9.9	100
All agriculture	Q	0.2	0.0	0.3	0.0	0.1	1.0	0.6	2.2	0.1	0.0	2.3	0.9	0.2	8.0	100

Source: Authors' calculations using Project data and FAO Production and Commodity Balance Data.

Table 18: Share of global exports and imports, key covered products, Europe's transition economies, 2000-03  
(percent)

		Bulgaria	Estonia	Hungary	Latvia	Lithuania	Poland	Romania	Russia	Slovakia	Slovenia	Turkey	Ukraine	CzechRep	Regional	World
<b>Grains</b>	<b>X</b>	<b>0.3</b>	<b>0.0</b>	<b>0.9</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>1.7</b>	<b>0.1</b>	<b>0.0</b>	<b>0.4</b>	<b>1.4</b>	<b>0.2</b>	<b>5.2</b>	<b>100</b>
	<b>M</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>	<b>0.3</b>	<b>0.5</b>	<b>0.1</b>	<b>0.1</b>	<b>1.0</b>	<b>0.5</b>	<b>0.0</b>	<b>2.9</b>	<b>100</b>
Rice	X											0.0			0.0	100
	M											1.3			1.3	100
Wheat	X	0.4	0.0	0.8	0.1	0.3	0.2	0.1	2.9	0.0	0.0	0.6	1.7	0.3	7.5	100
	M	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.7	0.0	0.1	0.9	0.9	0.0	3.4	100
Maize	X	0.1		1.9			0.0	0.1	0.0	0.1	0.0	0.1	0.6		3.0	100
	M	0.2		0.1			0.4	0.2	0.5	0.1	0.2	1.4	0.2		3.4	100
Cassava	X															100
	M															100
Barley	X	0.8	0.0	0.5	0.0	0.1		0.6	6.5	0.1	0.0	1.3	6.9	0.4	17.2	100
	M	0.0	0.1	0.2	0.0	0.1		0.4	1.3	0.3	0.3	0.3	0.2	0.2	3.5	100
Oat	X		0.1		0.1	0.0		0.0	0.1	0.0			0.5		0.8	100
	M		0.1		0.2	0.1		0.0	0.7	0.0			0.1		1.3	100
Chickpea	X															100
	M															100
<b>Oilseeds</b>	<b>X</b>	<b>0.2</b>		<b>0.4</b>				<b>0.2</b>	<b>0.4</b>	<b>0.1</b>		<b>0.1</b>	<b>1.5</b>	<b>0.3</b>	<b>3.1</b>	<b>100</b>
	<b>M</b>	<b>0.0</b>		<b>0.1</b>				<b>0.1</b>	<b>0.3</b>	<b>0.0</b>		<b>0.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.9</b>	<b>100</b>
Soybean	X							0.0							0.0	100
	M							0.2							0.2	100
Rapeseed	X							0.2		0.5				2.7	3.4	100
	M							0.0		0.1				0.2	0.3	100
Sunflower	X	2.1		5.0				2.0	4.6	0.8		0.8	18.6		33.9	100
	M	0.3		0.7				0.5	4.2	0.2		4.8	0.1		10.9	100
<b>Tropical crops</b>	<b>X</b>	<b>0.0</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.3</b>	<b>0.0</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.5</b>	<b>0.1</b>	<b>0.1</b>	<b>1.3</b>	<b>100</b>
	<b>M</b>	<b>0.2</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.4</b>	<b>3.5</b>	<b>0.1</b>	<b>0.0</b>	<b>1.1</b>	<b>0.6</b>	<b>0.0</b>	<b>6.0</b>	<b>100</b>
Sugar	X	0.0		0.1	0.0	0.1	0.8	0.0	0.4	0.1	0.0	1.1	0.4	0.2	3.2	100
	M	0.5		0.1	0.0	0.0	0.2	1.1	9.1	0.2	0.1	0.0	1.5	0.1	12.9	100
Cotton	X											0.8			0.8	100
	M											8.0			8.0	100
	<b>X</b>	<b>0.1</b>	<b>0.1</b>	<b>0.9</b>	<b>0.1</b>	<b>0.2</b>	<b>0.9</b>	<b>0.0</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.6</b>	<b>0.3</b>	<b>3.8</b>	<b>100</b>

<b>Livestock products</b>		<b>M</b>	<b>0.1</b>	<b>0.1</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.3</b>	<b>0.2</b>	<b>2.8</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.1</b>	<b>0.2</b>	<b>4.5</b>	<b>100</b>
Pigmeat	X	0.0	0.1	1.7	0.0	0.0	0.9	0.0	0.1	0.0	0.1		0.1	0.1	3.3	100	
	M	0.1	0.1	0.3	0.2	0.1	0.4	0.5	3.2	0.2	0.3		0.0	0.3	5.6	100	
Milk	X	0.1	0.2	0.3	0.2	0.6	1.2	0.0	0.4	0.2	0.2	0.1	0.7	0.7	4.9	100	
	M	0.1	0.1	0.2	0.1	0.1	0.4	0.1	1.5	0.1	0.1	0.1	0.1	0.3	3.2	100	
Beef	X	0.0	0.0	0.1	0.0	0.1	0.5	0.0	0.0	0.0	0.1	0.0	1.4	0.1	2.3	100	
	M	0.1	0.0	0.0	0.1	0.0	0.0	0.1	3.4	0.1	0.0	0.0	0.0	0.0	3.8	100	
Poultry	X	0.2	0.1	2.7	0.0	0.0	1.3	0.1	0.0	0.1	0.2	0.1	0.0	0.2	5.0	100	
	M	0.1	0.2	0.1	0.3	0.1	0.2	0.5	6.3	0.2	0.1	0.0	0.4	0.3	8.7	100	
Egg	X	0.3	0.0	1.4	0.2	0.2	0.7	0.1	0.5	0.2	0.2	0.8	0.0	0.6	5.1	100	
	M	0.1	0.1	0.9	0.1	0.2	0.4	0.3	0.5	0.1	0.1	0.7	0.5	0.2	4.2	100	
Sheepmeat	X			0.1			0.0				0.0	0.1			0.2	100	
	M			0.0			0.0				0.0	0.0			0.0	100	
<b>Total of above products</b>		<b>X</b>	<b>0.1</b>	<b>0.1</b>	<b>0.7</b>	<b>0.1</b>	<b>0.2</b>	<b>0.5</b>	<b>0.1</b>	<b>0.6</b>	<b>0.1</b>	<b>0.1</b>	<b>0.2</b>	<b>0.8</b>	<b>0.3</b>	<b>3.7</b>	<b>100</b>
		<b>M</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.2</b>	<b>0.3</b>	<b>2.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.5</b>	<b>0.3</b>	<b>0.1</b>	<b>3.9</b>	<b>100</b>
All agriculture	X	0.1	0.1	0.6	0.1	0.1	0.7	0.1	0.4	0.1	0.1	0.9	0.5	0.3	4.0	100	
	M	0.1	0.1	0.3	0.2	0.1	0.7	0.3	1.9	0.2	0.2	0.7	0.3	0.5	5.5	100	

Source: Authors' derivation using production, trade and domestic supply data in the FAO Commodity Balances at FAOSTAT.