

# ANNUAL ESTIMATES OF AFRICAN DISTORTIONS TO AGRICULTURAL INCENTIVES

**Ernesto Valenzuela, Marianne Kurzweil,  
Johanna Croser, Signe Nelgen and Kym Anderson**

[ernesto.valenzuela@adelaide.edu.au](mailto:ernesto.valenzuela@adelaide.edu.au)

[marianne136@gmail.com](mailto:marianne136@gmail.com)

[johlou@gmail.com](mailto:johlou@gmail.com)

[signe.nelgen@googlemail.com](mailto:signe.nelgen@googlemail.com)

[kym.anderson@adelaide.edu.au](mailto:kym.anderson@adelaide.edu.au)

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This Working Paper summarizes the annual estimates of covered product NRAs, for each of the focus countries, of Africa key distortion indicators defined in Anderson et al. (2008), and provides some summary statistics for the region's estimates. A shorter version of this appears as Appendix B in Anderson and Masters (2008). 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 Masters (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). 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, **Benin**, 1970 to 2005  
(a) Nominal rates of assistance to covered products  
(percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	0	-31	0	0	0	-1
1971	0	-43	0	0	0	-2
1972	0	-43	0	0	0	-3
1973	0	-69	0	0	0	-7
1974	0	-42	0	0	0	-2
1975	0	-51	0	0	0	-2
1976	0	-63	0	0	0	-2
1977	0	-41	0	0	0	0
1978	0	-50	0	0	0	-1
1979	0	-48	0	0	0	-1
1980	0	-52	0	0	0	-1
1981	0	-33	0	0	0	0
1982	0	-46	0	0	0	-1
1983	0	-55	0	0	0	-2
1984	0	-46	0	0	0	-3
1985	0	14	0	0	0	1
1986	0	5	0	0	0	0
1987	0	-19	0	0	0	-1
1988	0	-10	0	0	0	-1
1989	0	-42	0	0	0	-3
1990	0	-30	0	0	0	-2
1991	0	-15	0	0	0	-1
1992	0	17	0	0	0	1
1993	0	-19	0	0	0	-2
1994	0	-61	0	0	0	-14
1995	0	-37	0	0	0	-8
1996	0	-28	0	0	0	-5
1997	0	-32	0	0	0	-5
1998	0	3	0	0	0	0
1999	0	-9	0	0	0	-1
2000	0	-23	0	0	0	-3
2001	0	6	0	0	0	1
2002	0	-16	0	0	0	-1
2003	0	-17	0	0	0	-1
2004	0	15	0	0	0	1
2005	0	10	0	0	0	0

Table 1 (continued): Annual distortion estimates, **Benin**, 1970 to 2005  
 (b) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
 (percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	17	2	0	2	24	55
1971	19	3	0	2	23	52
1972	15	3	0	3	22	57
1973	13	4	1	4	24	54
1974	10	2	1	4	26	56
1975	12	1	0	4	23	59
1976	14	1	0	5	25	55
1977	16	0	0	5	25	53
1978	15	1	0	3	28	53
1979	10	1	0	3	30	56
1980	10	1	0	3	28	58
1981	14	0	0	3	30	52
1982	13	1	0	3	30	53
1983	10	2	0	3	27	58
1984	11	3	0	3	29	54
1985	11	2	0	3	25	60
1986	11	2	1	3	26	57
1987	10	2	1	3	28	56
1988	10	2	1	4	26	56
1989	13	3	1	3	31	49
1990	10	4	1	3	33	50
1991	13	4	1	3	35	44
1992	12	2	1	4	30	50
1993	15	6	1	3	33	41
1994	12	11	0	2	24	50
1995	12	10	1	4	23	51
1996	12	9	1	4	28	47
1997	17	8	1	3	25	46
1998	22	5	1	4	29	39
1999	20	6	1	4	29	40
2000	20	7	1	3	29	41
2001	23	5	1	3	27	41
2002	20	5	1	5	30	40
2003	22	5	1	3	29	40
2004	21	4	1	4	32	39
2005	22	2	1	4	32	39

a. At farmgate undistorted prices

Table 1 (continued): Annual distortion estimates, **Benin**, 1970 to 2005  
(d) Trade status<sup>a</sup> of covered products

	Cassava	Cotton	Millet	Sorghum	Yam
1970	H	X	H	H	H
1971	H	X	H	H	H
1972	H	X	H	H	H
1973	H	X	H	H	H
1974	H	X	H	H	H
1975	H	X	H	H	H
1976	H	X	H	H	H
1977	H	X	H	H	H
1978	H	X	H	H	H
1979	H	X	H	H	H
1980	H	X	H	H	H
1981	H	X	H	H	H
1982	H	X	H	H	H
1983	H	X	H	H	H
1984	H	X	H	H	H
1985	H	X	H	H	H
1986	H	X	H	H	H
1987	H	X	H	H	H
1988	H	X	H	H	H
1989	H	X	H	H	H
1990	H	X	H	H	H
1991	H	X	H	H	H
1992	H	X	H	H	H
1993	H	X	H	H	H
1994	H	X	H	H	H
1995	H	X	H	H	H
1996	H	X	H	H	H
1997	H	X	H	H	H
1998	H	X	H	H	H
1999	H	X	H	H	H
2000	H	X	H	H	H
2001	H	X	H	H	H
2002	H	X	H	H	H
2003	H	X	H	H	H
2004	H	X	H	H	H
2005	H	X	H	H	H

Sources: Baffes (2007)

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

Table 2: Annual distortion estimates, **Burkina Faso**, 1970 to 2005(a) Nominal rates of assistance to covered products  
(percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	0	-28	0	0	0	-1
1971	0	-44	0	0	0	-2
1972	0	-45	0	0	0	-2
1973	0	-69	0	0	0	-5
1974	0	-41	0	0	0	-2
1975	0	-50	0	0	0	-3
1976	0	-68	0	0	0	-8
1977	0	-37	0	0	0	-1
1978	0	-47	0	0	0	-2
1979	0	-45	0	0	0	-3
1980	0	-54	0	0	0	-3
1981	0	-45	0	0	0	-2
1982	0	-60	0	0	0	-4
1983	0	-68	0	0	0	-6
1984	0	-51	0	0	0	-4
1985	0	6	0	0	0	0
1986	0	0	0	0	0	0
1987	0	-20	0	0	0	-2
1988	0	-14	0	0	0	-1
1989	0	-41	0	0	0	-5
1990	0	-30	0	0	0	-4
1991	0	-13	0	0	0	-1
1992	0	8	0	0	0	0
1993	0	-14	0	0	0	-1
1994	0	-68	0	0	0	-10
1995	0	-43	0	0	0	-5
1996	0	-34	0	0	0	-4
1997	0	-36	0	0	0	-7
1998	0	-12	0	0	0	-1
1999	0	-6	0	0	0	-1
2000	0	-27	0	0	0	-5
2001	0	15	0	0	0	1
2002	0	-14	0	0	0	-1
2003	0	-20	0	0	0	-3
2004	0	38	0	0	0	6
2005	0	13	0	0	0	2



Table 2 (continued): Annual distortion estimates, **Burkina Faso**, 1970 to 2005 (b) Value shares of primary production of covered<sup>a</sup> and non-covered products, (percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	1	1	19	27	2	49
1971	1	2	15	23	2	56
1972	1	2	13	25	2	56
1973	1	3	13	24	3	56
1974	1	2	15	29	2	50
1975	1	3	14	27	2	52
1976	1	5	14	22	2	56
1977	1	2	14	26	2	56
1978	1	2	15	25	2	56
1979	1	2	12	21	2	62
1980	1	2	12	19	2	64
1981	1	2	14	21	2	61
1982	1	3	15	21	2	59
1983	1	3	14	21	2	60
1984	1	3	14	23	2	57
1985	0	2	18	24	1	55
1986	0	3	14	20	3	60
1987	0	3	13	18	2	63
1988	0	3	14	18	2	62
1989	0	4	12	19	1	63
1990	0	4	10	17	1	69
1991	0	2	16	24	1	57
1992	0	2	15	23	1	59
1993	0	2	16	21	1	60
1994	0	5	15	15	1	64
1995	0	4	13	20	1	62
1996	0	4	14	19	1	63
1997	0	7	11	15	1	67
1998	0	3	16	17	1	63
1999	0	3	14	16	1	65
2000	0	6	11	14	1	68
2001	0	3	14	17	1	65
2002	0	3	13	17	0	66
2003	0	6	14	17	0	62
2004	0	6	13	17	1	62
2005	0	6	15	17	0	62

a. At farmgate undistorted prices

Table 2 (continued): Annual distortion estimates, **Burkina Faso**, 1970 to 2005 (c) Trade status<sup>a</sup> of covered products

	Cassava	Cotton	Millet	Sorghum	Yam
1970	H	X	H	H	H
1971	H	X	H	H	H
1972	H	X	H	H	H
1973	H	X	H	H	H
1974	H	X	H	H	H
1975	H	X	H	H	H
1976	H	X	H	H	H
1977	H	X	H	H	H
1978	H	X	H	H	H
1979	H	X	H	H	H
1980	H	X	H	H	H
1981	H	X	H	H	H
1982	H	X	H	H	H
1983	H	X	H	H	H
1984	H	X	H	H	H
1985	H	X	H	H	H
1986	H	X	H	H	H
1987	H	X	H	H	H
1988	H	X	H	H	H
1989	H	X	H	H	H
1990	H	X	H	H	H
1991	H	X	H	H	H
1992	H	X	H	H	H
1993	H	X	H	H	H
1994	H	X	H	H	H
1995	H	X	H	H	H
1996	H	X	H	H	H
1997	H	X	H	H	H
1998	H	X	H	H	H
1999	H	X	H	H	H
2000	H	X	H	H	H
2001	H	X	H	H	H
2002	H	X	H	H	H
2003	H	X	H	H	H
2004	H	X	H	H	H
2005	H	X	H	H	H

Sources: Baffes (2007)

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

Table 3: Annual distortion estimates, **Cameroon**, 1961 to 2004  
(a) Nominal rates of assistance to covered products  
(percent)

	Banana	Cassav a	Cocoa	Coffee	Cotton	Maize	Millet	Other roots & tubers	Plantai n	Sorghu m covered	All
1961	-3	0	-29	-35	na	0.0	0	0	0	0	-4
1962	-1	0	-28	-38	na	0	0	0	0	0	-4
1963	-4	0	-37	-26	na	0	0	0	0	0	-5
1964	-2	0	-21	-26	na	0	0	0	0	0	-4
1965	-4	0	-31	-34	na	0	0	0	0	0	-5
1966	-4	0	-43	-30	na	0	0	0	0	0	-6
1967	-3	0	-50	-29	na	0	0	0	0	0	-8
1968	-2	0	-55	-30	na	0	0	0	0	0	-9
1969	-8	0	-61	-35	na	0	0	0	0	0	-13
1970	0	0	-46	-43	-34	0	0	0	0	0	-12
1971	0	0	-29	-44	-46	0	0	0	0	0	-9
1972	0	0	-35	-43	-37	0	0	0	0	0	-9
1973	0	0	-53	-39	-64	0	0	0	0	0	-13
1974	0	0	-61	-48	-39	0	0	0	0	0	-16
1975	1	0	-42	-37	-46	0	0	0	0	0	-8
1976	0	0	-64	-63	-57	0	0	0	0	0	-22
1977	0	0	-78	-74	-30	0	0	0	0	0	-40
1978	-8	0	-66	-56	-43	0	0	0	0	0	-30
1979	-1	0	-52	-51	-33	0	0	0	0	0	-25
1980	1	0	-31	-41	-28	0	0	0	0	0	-16
1981	0	0	-31	-30	-17	0	0	0	0	0	-12
1982	-2	0	-30	-44	-31	0	0	0	0	0	-17
1983	-4	0	-44	-49	-45	0	0	0	0	0	-19
1984	-1	0	-53	-55	-25	0	0	0	0	0	-33
1985	1	0	-37	-44	35	0	0	0	0	0	-19
1986	1	0	-16	-39	45	0	0	0	0	0	-14
1987	-2	0	-1	1	20	0	0	0	0	0	0
1988	-1	0	17	3	32	0	0	0	0	0	4
1989	-3	0	27	4	-41	0	0	0	0	0	3
1990	-2	0	-15	-10	-28	0	0	0	0	0	-3
1991	-1	0	-23	-4	-11	0	0	0	0	0	-3
1992	-1	0	-19	17	14	0	0	0	0	0	-1
1993	-1	0	-44	-11	46	0	0	0	0	0	-4
1994	20	0	-63	-70	-44	0	0	0	0	0	-12
1995	9	0	-18	-27	-25	0	0	0	0	0	-4
1996	6	0	-32	6	-22	0	0	0	0	0	-2
1997	7	0	-46	-4	-21	0	0	0	0	0	-6
1998	2	0	-51	-8	4	0	0	0	0	0	-6
1999	-1	0	-24	-10	-6	0	0	0	0	0	-4
2000	5	0	-20	-5	0	0	0	0	0	0	-1
2001	3	0	-15	-8	8	0	0	0	0	0	-1
2002	1	0	-20	-9	-11	0	0	0	0	0	-3
2003	-1	0	-9	0	-21	0	0	0	0	0	-2
2004	-1	0	2	12	30	0	0	0	0	0	1

Table 3 (continued): Annual distortion estimates, **Cameroon**, 1961 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	NRA	RRA
	Inputs	Outputs							
1961	0	-4	-1	-3	-17	na	-15	19	-29
1962	0	-4	0	-3	-16	na	-14	18	-27
1963	0	-5	-1	-3	-19	na	-17	19	-30
1964	0	-4	-1	-2	-14	na	-12	17	-24
1965	0	-5	-1	-4	-20	na	-18	18	-30
1966	0	-6	-1	-4	-22	na	-21	20	-34
1967	0	-8	-1	-5	-24	na	-24	25	-39
1968	0	-9	-1	-7	-28	na	-27	24	-41
1969	0	-13	-2	-10	-36	na	-35	27	-49
1970	0	-12	0	-8	-30	na	-28	26	-43
1971	0	-9	0	-6	-24	na	-23	23	-37
1972	0	-9	0	-5	-24	na	-22	24	-37
1973	0	-13	0	-8	-31	na	-28	29	-44
1974	0	-16	0	-10	-37	na	-34	28	-48
1975	0	-8	0	-4	-22	na	-18	24	-34
1976	0	-22	0	-12	-37	na	-36	31	-51
1977	0	-40	0	-22	-51	na	-51	38	-64
1978	0	-30	-2	-19	-45	na	-44	30	-57
1979	0	-25	0	-15	-36	na	-35	24	-48
1980	0	-16	0	-9	-24	na	-23	26	-39
1981	0	-12	0	-7	-20	na	-18	25	-35
1982	0	-17	-1	-10	-27	na	-25	27	-41
1983	0	-19	-1	-11	-32	na	-31	34	-48
1984	0	-33	0	-19	-40	na	-39	35	-55
1985	0	-19	0	-10	-26	na	-25	34	-44
1986	0	-14	0	-7	-20	na	-18	32	-38
1987	0	0	-1	1	0	na	3	22	-15
1988	0	4	0	3	6	na	8	18	-9
1989	0	3	-1	2	4	na	6	17	-9
1990	0	-3	-1	-1	-6	na	-5	17	-19
1991	0	-3	0	-1	-5	na	-4	13	-15
1992	0	-1	0	0	-1	na	0	14	-13
1993	0	-4	0	-2	-7	na	-6	16	-19
1994	0	-12	6	-1	-4	na	-4	35	-29
1995	0	-4	3	0	-2	na	-1	21	-18
1996	0	-2	2	0	0	na	0	17	-14
1997	0	-6	2	-2	-6	na	-5	17	-19
1998	0	-6	1	-3	-10	na	-9	21	-25
1999	0	-4	0	-2	-6	na	-6	16	-19
2000	0	-1	1	0	0	na	1	16	-13
2001	0	-1	1	0	0	na	1	17	-14
2002	0	-3	0	-1	-4	na	-4	16	-17
2003	0	-2	0	-1	-4	na	-3	13	-15
2004	0	1	0	1	2	na	3	12	-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 3 (continued): Annual distortion estimates, **Cameroon**, 1961 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Banana	Cassav a	Cocoa	Coffee	Cotton	Maize	Millet	Other roots & tubers	Plantai n	Sorghu m	Non- covered
1961	1	3	5	5	na	18	2	17	7	12	30
1962	1	3	5	4	na	16	2	18	9	11	30
1963	1	3	6	4	na	14	2	20	9	11	30
1964	1	3	6	6	na	13	2	15	13	11	30
1965	1	4	4	7	na	15	2	17	9	11	30
1966	1	4	6	6	na	13	2	16	9	12	30
1967	1	4	7	7	na	11	2	20	11	9	29
1968	1	4	8	7	na	12	1	20	11	7	28
1969	1	3	11	7	na	12	2	18	8	9	29
1970	1	3	9	9	0	11	1	20	8	7	28
1971	1	3	8	9	0	12	2	19	9	8	30
1972	1	4	7	8	0	11	1	20	10	7	31
1973	1	3	10	7	0	10	1	19	10	6	31
1974	1	3	11	8	0	9	1	20	10	5	30
1975	1	4	6	7	1	13	1	20	10	7	31
1976	1	3	8	11	1	7	1	15	7	4	42
1977	1	3	14	16	0	5	1	9	6	3	44
1978	1	3	15	15	1	5	1	8	9	5	38
1979	1	3	15	14	1	5	1	8	9	5	39
1980	1	4	12	15	1	5	1	9	10	6	37
1981	1	4	12	12	1	5	1	10	10	4	39
1982	1	4	10	17	1	5	1	9	9	4	39
1983	1	5	14	10	2	5	1	9	12	4	38
1984	1	4	15	21	1	3	0	6	7	2	39
1985	1	6	14	14	1	3	0	7	10	4	40
1986	1	1	11	19	1	3	1	8	11	6	39
1987	1	6	12	9	1	4	0	11	10	3	43
1988	1	5	9	10	1	3	0	10	8	5	48
1989	4	5	7	9	1	3	0	10	10	4	47
1990	8	6	5	4	1	3	0	12	8	4	50
1991	9	7	5	5	1	3	0	10	8	4	48
1992	8	7	4	2	1	3	0	9	9	4	53
1993	3	7	4	3	1	3	0	12	10	4	54
1994	6	5	4	5	1	3	0	5	8	3	59
1995	8	5	5	5	1	5	1	7	8	4	51
1996	7	5	5	5	1	4	1	7	7	4	54
1997	4	6	6	3	1	5	1	10	8	4	53
1998	4	5	6	8	1	5	1	10	8	6	47
1999	4	5	4	6	1	6	1	13	6	3	52
2000	3	7	3	3	1	5	0	14	8	3	52
2001	2	7	3	1	1	4	0	12	7	5	58
2002	2	7	5	2	1	4	1	11	7	6	56
2003	3	7	6	2	1	5	1	14	8	6	46
2004	3	5	7	2	1	5	1	15	10	5	46

a. At farmgate undistorted prices

Table 3 (continued): Annual distortion estimates, **Cameroon**, 1961 to 2004: (d) Trade status<sup>a</sup> of covered products

	Banana	Cassav a	Cocoa	Coffee	Cotton	Maize	Millet	Other roots & tubers	Plantai n	Sorghu m
1961	X	H	X	X	na	H	H	H	H	H
1962	X	H	X	X	na	H	H	H	H	H
1963	X	H	X	X	na	H	H	H	H	H
1964	X	H	X	X	na	H	H	H	H	H
1965	X	H	X	X	na	H	H	H	H	H
1966	X	H	X	X	na	H	H	H	H	H
1967	X	H	X	X	na	H	H	H	H	H
1968	X	H	X	X	na	H	H	H	H	H
1969	X	H	X	X	na	H	H	H	H	H
1970	X	H	X	X	X	H	H	H	H	H
1971	X	H	X	X	X	H	H	H	H	H
1972	X	H	X	X	X	H	H	H	H	H
1973	X	H	X	X	X	H	H	H	H	H
1974	X	H	X	X	X	H	H	H	H	H
1975	X	H	X	X	X	H	H	H	H	H
1976	X	H	X	X	X	H	H	H	H	H
1977	X	H	X	X	X	H	H	H	H	H
1978	X	H	X	X	X	H	H	H	H	H
1979	X	H	X	X	X	H	H	H	H	H
1980	X	H	X	X	X	H	H	H	H	H
1981	X	H	X	X	X	H	H	H	H	H
1982	X	H	X	X	X	H	H	H	H	H
1983	X	H	X	X	X	H	H	H	H	H
1984	X	H	X	X	X	H	H	H	H	H
1985	X	H	X	X	X	H	H	H	H	H
1986	X	H	X	X	X	H	H	H	H	H
1987	X	H	X	X	X	H	H	H	H	H
1988	X	H	X	X	X	H	H	H	H	H
1989	X	H	X	X	X	H	H	H	H	H
1990	X	H	X	X	X	H	H	H	H	H
1991	X	H	X	X	X	H	H	H	H	H
1992	X	H	X	X	X	H	H	H	H	H
1993	X	H	X	X	X	H	H	H	H	H
1994	X	H	X	X	X	H	H	H	H	H
1995	X	H	X	X	X	H	H	H	H	H
1996	X	H	X	X	X	H	H	H	H	H
1997	X	H	X	X	X	H	H	H	H	H
1998	X	H	X	X	X	H	H	H	H	H
1999	X	H	X	X	X	H	H	H	H	H
2000	X	H	X	X	X	H	H	H	H	H
2001	X	H	X	X	X	H	H	H	H	H
2002	X	H	X	X	X	H	H	H	H	H
2003	X	H	X	X	X	H	H	H	H	H
2004	X	H	X	X	X	H	H	H	H	H

Sources: Bamou and Masters (2007)

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

Table 4: Annual distortion estimates, **Chad**, 1970 to 2005(a) Nominal rates of assistance to covered products  
(percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	0	-39	0	0	0	-5
1971	0	-49	0	0	0	-10
1972	0	-50	0	0	0	-11
1973	0	-73	0	0	0	-27
1974	0	-34	0	0	0	-8
1975	0	-46	0	0	0	-14
1976	0	-63	0	0	0	-21
1977	0	-40	0	0	0	-7
1978	0	-50	0	0	0	-9
1979	0	-47	0	0	0	-6
1980	0	-47	0	0	0	-5
1981	0	-45	0	0	0	-5
1982	0	-53	0	0	0	-9
1983	0	-63	0	0	0	-16
1984	0	-40	0	0	0	-5
1985	0	19	0	0	0	1
1986	0	13	0	0	0	1
1987	0	-5	0	0	0	-1
1988	0	3	0	0	0	0
1989	0	-37	0	0	0	-6
1990	0	-25	0	0	0	-3
1991	0	-7	0	0	0	-1
1992	0	21	0	0	0	1
1993	0	-21	0	0	0	-1
1994	0	-62	0	0	0	-11
1995	0	-46	0	0	0	-5
1996	0	-32	0	0	0	-5
1997	0	-25	0	0	0	-4
1998	0	2	0	0	0	0
1999	0	3	0	0	0	0
2000	0	-29	0	0	0	-4
2001	0	2	0	0	0	0
2002	0	-15	0	0	0	-1
2003	0	-26	0	0	0	-1
2004	0	37	0	0	0	3
2005	0	15	0	0	0	1

Table 4 (continued): Annual distortion estimates, **Chad**, 1970 to 2005  
 (b) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
 (percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	3	6	10	22	4	55
1971	3	8	9	19	4	57
1972	4	8	7	14	4	62
1973	3	15	9	11	3	59
1974	4	11	12	17	5	50
1975	4	14	10	14	5	53
1976	3	14	8	13	4	59
1977	3	6	8	17	3	63
1978	3	7	7	18	3	62
1979	4	4	8	13	4	66
1980	5	4	8	13	5	65
1981	6	3	5	8	7	71
1982	7	5	5	9	7	67
1983	7	10	6	10	6	61
1984	9	6	5	15	8	57
1985	10	3	11	18	8	51
1986	8	3	12	10	7	60
1987	9	4	10	10	7	60
1988	8	4	14	7	7	59
1989	7	5	6	8	6	67
1990	7	4	8	13	6	62
1991	10	4	5	6	11	63
1992	7	2	7	9	11	65
1993	8	2	4	4	11	71
1994	5	6	5	9	9	66
1995	8	4	5	11	9	62
1996	8	5	5	7	8	68
1997	7	6	5	9	8	66
1998	6	2	8	12	6	65
1999	6	3	7	9	7	68
2000	5	3	4	6	9	72
2001	8	2	7	6	8	69
2002	8	2	6	8	14	60
2003	8	1	9	9	15	57
2004	17	3	5	7	11	57
2005	9	1	11	10	11	57

a. At farmgate undistorted prices



Table 4 (continued): Annual distortion estimates, **Chad**, 1970 to 2005  
(c) Trade status<sup>a</sup> of covered products

	Cassava	Cotton	Millet	Sorghum	Yam
1970	H	X	H	H	H
1971	H	X	H	H	H
1972	H	X	H	H	H
1973	H	X	H	H	H
1974	H	X	H	H	H
1975	H	X	H	H	H
1976	H	X	H	H	H
1977	H	X	H	H	H
1978	H	X	H	H	H
1979	H	X	H	H	H
1980	H	X	H	H	H
1981	H	X	H	H	H
1982	H	X	H	H	H
1983	H	X	H	H	H
1984	H	X	H	H	H
1985	H	X	H	H	H
1986	H	X	H	H	H
1987	H	X	H	H	H
1988	H	X	H	H	H
1989	H	X	H	H	H
1990	H	X	H	H	H
1991	H	X	H	H	H
1992	H	X	H	H	H
1993	H	X	H	H	H
1994	H	X	H	H	H
1995	H	X	H	H	H
1996	H	X	H	H	H
1997	H	X	H	H	H
1998	H	X	H	H	H
1999	H	X	H	H	H
2000	H	X	H	H	H
2001	H	X	H	H	H
2002	H	X	H	H	H
2003	H	X	H	H	H
2004	H	X	H	H	H
2005	H	X	H	H	H

*Sources:* Baffes (2007)

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

Table 5: Annual distortion estimates, **Cote D'Ivoire**, 1961 to 2005  
(a) Nominal rates of assistance to covered products (percent)

	Cassava	Cocoa	Coffee	Cotton	Plantain	Rice	Yam	All covered
1961	0	-36	-54	na	0	-20.3	0	-31
1962	0	-28	-53	na	0	-25	0	-22
1963	0	-39	-48	na	0	-24	0	-28
1964	0	-31	-52	na	0	-19	0	-33
1965	0	-28	-55	na	0	-22	0	-30
1966	0	-40	-51	-16	0	-36	0	-35
1967	0	-42	-50	-20	0	-50	0	-32
1968	0	-52	-50	-20	0	-40	0	-37
1969	0	-65	-54	-25	0	-38	0	-43
1970	0	-43	-55	-17	0	-12	0	-37
1971	0	-28	-57	-32	0	22	0	-31
1972	0	-33	-55	-33	0	17	0	-33
1973	0	-49	-48	-54	0	55	0	-28
1974	0	-49	-48	-11	0	-21	0	-33
1975	0	-15	-43	-17	0	34	0	-14
1976	0	-53	-84	-35	0	70	0	-61
1977	0	-69	-66	-17	0	53	0	-48
1978	0	-64	-69	-32	0	6	0	-43
1979	0	-50	-58	-24	0	42	0	-32
1980	0	-55	-65	-52	0	-27	0	-41
1981	0	-49	-66	-43	0	-41	0	-42
1982	0	-44	-73	-49	0	-11	0	-38
1983	0	-52	-75	-52	0	-12	0	-43
1984	0	-59	-71	-38	0	3	0	-37
1985	0	-55	-67	-16	0	15	0	-44
1986	0	-47	-58	-30	0	45	0	-32
1987	0	-43	-54	-41	0	38	0	-29
1988	0	-29	-53	-37	0	-25	0	-22
1989	0	-11	-55	-50	0	-31	0	-16
1990	0	-49	-51	-48	0	-11	0	-26
1991	0	-46	-40	-43	0	-18	0	-20
1992	0	-40	-66	-30	0	-9	0	-19
1993	0	-44	-79	-29	0	22	0	-21
1994	0	-42	-53	-42	0	-11	0	-23
1995	0	-42	-27	-36	0	6	0	-19
1996	0	-45	-42	-27	0	-2	0	-26
1997	0	-40	-44	-24	0	34	0	-23
1998	0	-36	-36	-12	0	-7	0	-23
1999	0	-43	-46	-11	0	5	0	-22
2000	0	-39	-32	-12	0	20	0	-18
2001	0	-39	-39	-3	0	35	0	-23
2002	0	-43	-51	-21	0	19	0	-29
2003	0	-56	-58	-23	0	48	0	-33
2004	0	-60	-62	-10	0	19	0	-35
2005	0	-58	-46	-22	0	1	0	-34

Table 5 (continued): Annual distortion estimates, **Cote D'Ivoire**, 1961 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)	Exportables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1961	0	-31	-8	-25	-50	19	-35	16	-44
1962	0	-22	-8	-19	-45	9	-29	15	-39
1963	0	-28	-8	-23	-46	14	-32	18	-42
1964	0	-33	-10	-27	-48	13	-35	14	-43
1965	0	-30	-10	-25	-50	10	-35	12	-42
1966	0	-35	-12	-29	-49	3	-37	12	-44
1967	0	-32	-10	-26	-47	-11	-35	13	-43
1968	0	-37	-11	-31	-50	-3	-39	11	-45
1969	0	-43	-13	-35	-57	0	-44	10	-49
1970	0	-37	-14	-32	-51	10	-39	11	-45
1971	0	-31	-14	-27	-48	19	-34	11	-40
1972	0	-33	-12	-28	-49	21	-35	12	-42
1973	0	-28	-14	-25	-48	32	-31	8	-37
1974	0	-33	-14	-29	-48	-3	-35	7	-40
1975	0	-14	-12	-14	-35	27	-18	10	-26
1976	0	-61	-17	-50	-73	21	-57	5	-59
1977	0	-48	2	-36	-64	53	-45	22	-55
1978	0	-43	10	-30	-62	54	-39	35	-55
1979	0	-32	6	-24	-52	58	-33	30	-48
1980	0	-41	-3	-31	-57	24	-40	21	-51
1981	0	-42	-16	-35	-56	-1	-45	6	-48
1982	0	-38	-1	-28	-58	34	-39	23	-50
1983	0	-43	-12	-36	-61	16	-48	11	-53
1984	0	-37	-11	-31	-58	20	-43	11	-49
1985	0	-44	-10	-35	-57	25	-44	13	-50
1986	0	-32	-9	-27	-50	33	-37	17	-46
1987	0	-29	-8	-25	-47	33	-35	19	-45
1988	0	-22	-8	-20	-37	14	-29	19	-40
1989	0	-16	-8	-14	-29	8	-22	18	-34
1990	0	-26	-13	-23	-49	11	-37	11	-43
1991	0	-20	-12	-18	-46	10	-32	12	-39
1992	0	-19	-11	-17	-47	17	-31	11	-38
1993	0	-21	-11	-18	-51	24	-32	13	-40
1994	0	-23	-13	-20	-46	14	-32	9	-37
1995	0	-19	-14	-18	-41	16	-28	7	-33
1996	0	-26	-14	-22	-45	13	-30	7	-34
1997	0	-23	-14	-20	-42	23	-26	8	-31
1998	0	-23	-15	-20	-38	10	-27	7	-32
1999	0	-22	-15	-20	-43	13	-28	8	-33
2000	0	-18	-16	-18	-40	15	-25	5	-29
2001	0	-23	-16	-21	-40	19	-28	5	-31
2002	0	-29	-16	-25	-43	15	-32	4	-34
2003	0	-33	-17	-29	-53	20	-38	4	-40
2004	0	-35	-16	-30	-56	15	-40	4	-42
2005	0	-34	-16	-29	-54	10	-40	4	-42

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, **Cote D'Ivoire**, 1961 to 2005 (c) Value shares of primary production of covered<sup>a</sup> and non-covered products, (percent)

	Cassava	Cocoa	Coffee	Cotton	Plantain	Rice	Yam	Non-covered
1961	4	9	35	na	5	4	17	25
1962	6	13	21	na	6	8	22	25
1963	4	12	32	na	5	6	17	25
1964	3	11	39	na	4	4	13	25
1965	4	9	34	na	5	6	17	25
1966	3	12	38	0	4	6	13	25
1967	4	16	21	1	4	11	16	27
1968	3	14	35	1	3	8	12	24
1969	3	23	26	1	3	6	12	26
1970	2	15	38	1	3	5	12	24
1971	3	16	35	1	3	5	12	24
1972	4	14	37	2	2	5	11	25
1973	4	19	31	2	2	6	11	24
1974	4	26	21	2	2	12	11	23
1975	3	17	25	2	3	8	15	27
1976	2	12	47	1	2	2	7	27
1977	4	28	29	1	3	3	10	23
1978	5	28	21	2	4	4	12	25
1979	5	26	23	1	5	3	16	22
1980	5	29	19	2	3	4	12	26
1981	5	25	26	2	3	4	12	25
1982	4	19	24	2	5	3	16	26
1983	3	23	26	2	5	2	14	25
1984	4	37	7	2	5	3	17	24
1985	3	29	25	2	3	2	11	25
1986	4	31	19	2	5	2	15	21
1987	4	33	17	3	6	2	17	18
1988	5	35	11	3	6	4	19	17
1989	5	29	10	6	7	5	21	17
1990	5	27	10	4	8	4	22	20
1991	6	24	6	3	10	4	24	23
1992	6	20	8	2	9	3	28	24
1993	6	21	8	3	8	3	26	25
1994	5	23	10	4	7	3	22	26
1995	5	28	7	3	6	4	22	26
1996	5	33	6	3	6	6	11	31
1997	4	32	9	3	5	6	11	30
1998	4	33	10	3	4	5	12	28
1999	4	26	8	3	6	5	16	31
2000	5	30	4	4	6	4	15	32
2001	6	44	2	2	6	4	9	26
2002	5	45	3	3	6	3	7	29
2003	7	41	2	4	7	3	8	27
2004	7	40	3	2	7	4	8	27
2005	7	39	3	2	9	5	8	28

a. At farmgate undistorted prices

Table 5 (continued): Annual distortion estimates, **Cote D'Ivoire**, 1961 to 2005 (d) Trade Status<sup>a</sup> by product

	Cassava	Cocoa	Coffee	Cotton	Plantain	Rice	Yam
1961	H	X	X	X	H	M	H
1962	H	X	X	X	H	M	H
1963	H	X	X	X	H	M	H
1964	H	X	X	X	H	M	H
1965	H	X	X	X	H	M	H
1966	H	X	X	X	H	M	H
1967	H	X	X	X	H	M	H
1968	H	X	X	X	H	M	H
1969	H	X	X	X	H	M	H
1970	H	X	X	X	H	M	H
1971	H	X	X	X	H	M	H
1972	H	X	X	X	H	M	H
1973	H	X	X	X	H	M	H
1974	H	X	X	X	H	M	H
1975	H	X	X	X	H	M	H
1976	H	X	X	X	H	M	H
1977	H	X	X	X	H	M	H
1978	H	X	X	X	H	M	H
1979	H	X	X	X	H	M	H
1980	H	X	X	X	H	M	H
1981	H	X	X	X	H	M	H
1982	H	X	X	X	H	M	H
1983	H	X	X	X	H	M	H
1984	H	X	X	X	H	M	H
1985	H	X	X	X	H	M	H
1986	H	X	X	X	H	M	H
1987	H	X	X	X	H	M	H
1988	H	X	X	X	H	M	H
1989	H	X	X	X	H	M	H
1990	H	X	X	X	H	M	H
1991	H	X	X	X	H	M	H
1992	H	X	X	X	H	M	H
1993	H	X	X	X	H	M	H
1994	H	X	X	X	H	M	H
1995	H	X	X	X	H	M	H
1996	H	X	X	X	H	M	H
1997	H	X	X	X	H	M	H
1998	H	X	X	X	H	M	H
1999	H	X	X	X	H	M	H
2000	H	X	X	X	H	M	H
2001	H	X	X	X	H	M	H
2002	H	X	X	X	H	M	H
2003	H	X	X	X	H	M	H
2004	H	X	X	X	H	M	H
2005	H	X	X	X	H	M	H

Source: Abbott (2007)

a. Exortable (X), import-competing (M) and nontradable (H).

Table 6: Annual distortion estimates, **Egypt**, 1955 to 2005  
(a) Nominal rates of assistance to covered products (percent)

	Beef	Cotton	Maize	Milk	Rice	Sugar	Wheat	All covered
1955	-21	-21	-45	-77	-71	-34.3	-49	-39
1956	-17	-21	-39	-75	-68	-30.8	-45	-37
1957	-14	-22	-32	-70	-64	-28.6	-41	-34
1958	-8	-22	-25	-64	-60	-22.9	-37	-29
1959	-7	-22	-19	-55	-58	-17.9	-32	-27
1960	-20	-35	-19	-57	-56	-30.4	-40	-35
1961	-29	-55	-42	-73	-60	-41.6	-45	-51
1962	-39	-46	-37	-63	-67	-35	-53	-48
1963	-31	-56	-38	-55	-64	-79	-50	-52
1964	-44	-58	-40	-37	-65	-79	-54	-54
1965	-46	-67	-47	-63	-62	-71	-46	-59
1966	-53	-66	-34	-44	-56	-51	-40	-55
1967	-44	-55	-13	-42	-51	-11	-23	-43
1968	-49	-61	-32	-55	-60	-21	-30	-52
1969	-57	-71	-33	-48	-58	-19	-32	-59
1970	-59	-64	-26	-40	-32	-50	-11	-51
1971	-59	-63	-31	-45	-39	-57	-32	-54
1972	-53	-56	-8	-56	-33	-56	-24	-48
1973	-59	-70	-19	-55	-62	-63	-35	-58
1974	-10	-71	-28	-19	-77	-71	-48	-55
1975	24	-60	-13	-16	-64	-66	-32	-39
1976	19	-41	-15	-28	-27	-33	-22	-22
1977	47	-53	64	-21	16	-8	5	-7
1978	15	-38	52	-36	3	-4	18	-6
1979	-44	-58	31	-44	-42	-21	-32	-42
1980	-27	-56	10	-34	-35	-60	-32	-36
1981	-18	-47	-40	-48	-37	-62	-46	-41
1982	13	-33	-20	-64	-36	-10	-52	-26
1983	66	-21	81	-45	-11	28	-24	14
1984	98	-36	35	-28	21	59	-3	22
1985	34	-57	11	-44	-8	6	-21	-15
1986	193	-21	178	20	10	52	139	68
1987	205	6	386	97	15	170	207	127
1988	187	7	350	102	103	97	128	132
1989	163	-3	262	112	142	82	193	125
1990	-10	-60	44	-5	-26	-36	31	-15
1991	3	-46	60	4	19	-15	115	8
1992	-27	-45	10	-29	-20	-35	20	-22
1993	-19	-27	26	-25	-15	-21	31	-11
1994	-4	-23	14	-22	-19	-15	41	-5
1995	24	22	11	-28	-24	-28	-1	-2
1996	35	-36	-7	-26	-22	-16	-7	-9
1997	34	5	35	-18	-27	-18	70	10
1998	42	-25	40	-15	-12	10	39	15
1999	37	-38	36	-10	-6	24	47	15
2000	19	-36	43	-13	-31	59	28	5
2001	1	-50	24	-20	-27	33	8	-9
2002	-10	-51	-12	-34	-39	-20	-15	-24
2003	8	-10	-10	-25	-9	-11	-14	-8
2004	-15	-37	16	-20	-17	4	1	-11
2005	-13	-21	46	-5	-20	-22	28	-4

Table 6 (continued): Annual distortion estimates, **Egypt**, 1955 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	NRA	RRA
	Inputs	Outputs							
1955	0	-39	0	-27	-34	-43	-39	31	-53
1956	0	-37	0	-26	-33	-40	-37	31	-52
1957	0	-34	0	-24	-32	-35	-34	31	-50
1958	0	-29	0	-20	-29	-29	-29	31	-46
1959	0	-27	0	-19	-29	-24	-27	31	-44
1960	0	-35	0	-25	-39	-32	-35	38	-53
1961	0	-51	0	-36	-56	-47	-51	44	-66
1962	0	-48	0	-34	-51	-46	-48	43	-64
1963	0	-52	0	-36	-58	-46	-52	43	-66
1964	0	-54	0	-38	-59	-49	-54	44	-68
1965	0	-59	0	-41	-66	-52	-59	45	-72
1966	0	-55	0	-38	-64	-46	-55	45	-69
1967	0	-43	0	-31	-54	-34	-43	42	-60
1968	0	-52	0	-37	-60	-44	-52	44	-67
1969	0	-59	0	-42	-68	-48	-59	46	-71
1970	0	-51	0	-37	-58	-45	-51	45	-66
1971	0	-54	0	-38	-60	-49	-54	46	-68
1972	0	-48	0	-34	-52	-45	-48	41	-63
1973	0	-58	0	-41	-68	-50	-58	39	-70
1974	0	-55	0	-38	-74	-33	-55	30	-65
1975	0	-39	0	-27	-62	-19	-39	26	-52
1976	0	-22	0	-15	-35	-10	-22	24	-37
1977	0	-7	0	-5	-40	25	-7	24	-25
1978	0	-6	0	-4	-27	9	-6	23	-23
1979	0	-42	0	-28	-54	-32	-42	21	-52
1980	0	-36	0	-25	-51	-26	-36	16	-45
1981	0	-41	0	-28	-45	-39	-41	17	-49
1982	0	-26	0	-17	-34	-22	-26	18	-37
1983	0	14	0	10	-17	29	14	18	-3
1984	0	22	0	15	-22	44	22	18	3
1985	0	-15	0	-10	-45	5	-15	24	-32
1986	0	68	0	44	-9	129	68	21	38
1987	0	127	0	81	10	207	127	20	89
1988	0	132	0	86	33	182	132	19	95
1989	0	125	0	82	37	169	125	20	88
1990	0	-15	0	-10	-49	4	-15	35	-37
1991	0	8	0	5	-27	27	8	22	-12
1992	0	-22	0	-15	-37	-14	-22	23	-37
1993	0	-11	0	-7	-22	-6	-11	23	-28
1994	0	-5	0	-3	-20	1	-5	24	-23
1995	0	-2	0	-1	-10	2	-2	24	-21
1996	0	-9	0	-6	-29	2	-9	25	-27
1997	0	10	0	7	-16	24	10	25	-12
1998	0	15	0	10	-17	27	15	26	-8
1999	0	15	0	10	-17	29	15	26	-9
2000	0	5	0	4	-33	21	5	25	-16
2001	0	-9	0	-6	-39	5	-9	25	-27
2002	0	-24	0	-16	-43	-16	-24	25	-39
2003	0	-8	0	-5	-9	-7	-8	24	-25
2004	0	-11	0	-8	-25	-6	-11	22	-28
2005	0	-4	0	-3	-20	4	-4	22	-21

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, **Egypt**, 1955 to 2005  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Beef	Cotton	Maize	Milk	Rice	Sugar	Wheat	Non-covered
1955	16	22	7	9	8	2	5	30
1956	16	22	7	10	8	2	6	30
1957	14	26	6	9	8	2	6	30
1958	13	28	6	8	7	2	6	30
1959	13	29	5	7	7	2	6	30
1960	13	31	5	7	5	2	7	30
1961	13	28	7	11	4	2	7	29
1962	14	26	7	8	8	2	8	29
1963	12	27	6	6	8	5	7	30
1964	13	27	7	4	8	4	7	30
1965	13	30	7	6	7	3	4	31
1966	16	26	8	4	7	2	5	31
1967	18	23	7	6	11	1	5	29
1968	18	22	6	7	13	1	4	28
1969	17	29	6	5	9	1	3	29
1970	21	26	6	6	6	2	4	28
1971	21	26	7	6	4	3	5	29
1972	21	24	6	8	6	3	4	29
1973	20	24	6	6	7	3	5	30
1974	9	23	7	4	15	5	6	30
1975	9	20	7	5	13	8	7	31
1976	11	18	9	6	13	5	6	31
1977	12	28	7	7	7	4	5	31
1978	16	21	7	9	8	4	5	31
1979	20	23	4	6	7	4	4	32
1980	17	21	8	6	6	6	5	31
1981	14	18	10	7	7	7	6	32
1982	15	13	10	9	10	3	7	33
1983	18	13	8	9	8	3	7	33
1984	17	17	11	8	5	3	6	33
1985	16	20	8	8	7	3	5	34
1986	15	18	5	8	11	4	4	35
1987	19	16	5	6	10	3	5	36
1988	21	16	6	5	6	5	6	35
1989	18	16	8	7	6	5	7	34
1990	17	17	7	6	8	5	8	33
1991	19	17	8	6	7	4	6	33
1992	19	15	7	7	8	4	7	33
1993	21	13	7	7	9	4	7	32
1994	21	7	9	7	13	5	6	32
1995	15	6	8	7	14	6	10	35
1996	13	12	9	7	11	4	10	34
1997	17	8	7	8	16	5	7	32
1998	17	6	8	9	12	4	10	32
1999	17	7	8	9	14	4	9	33
2000	19	5	7	8	14	3	10	33
2001	18	10	8	8	10	3	10	34
2002	18	7	8	8	12	4	10	34
2003	19	4	9	9	12	3	11	33
2004	21	7	8	8	11	3	9	33
2005	19	10	6	7	11	4	10	33

a. At farmgate undistorted prices



Table 6 (continued): Annual distortion estimates, **Egypt**, 1955 to 2005  
(d) Trade status<sup>a</sup> for covered products

	Beef	Cotton	Maize	Milk	Rice	Sugar	Wheat
1955	M	X	M	M	X	M	M
1956	M	X	M	M	X	M	M
1957	M	X	M	M	X	M	M
1958	M	X	M	M	X	M	M
1959	M	X	M	M	X	M	M
1960	M	X	M	M	X	M	M
1961	M	X	M	M	X	M	M
1962	M	X	M	M	X	M	M
1963	M	X	M	M	X	M	M
1964	M	X	M	M	X	M	M
1965	M	X	M	M	X	M	M
1966	M	X	M	M	X	M	M
1967	M	X	M	M	X	M	M
1968	M	X	M	M	X	M	M
1969	M	X	M	M	X	M	M
1970	M	X	M	M	X	M	M
1971	M	X	M	M	X	M	M
1972	M	X	M	M	X	M	M
1973	M	X	M	M	X	M	M
1974	M	X	M	M	X	M	M
1975	M	X	M	M	X	M	M
1976	M	X	M	M	X	M	M
1977	M	X	M	M	X	M	M
1978	M	X	M	M	X	M	M
1979	M	X	M	M	X	M	M
1980	M	X	M	M	X	M	M
1981	M	X	M	M	X	M	M
1982	M	X	M	M	X	M	M
1983	M	X	M	M	X	M	M
1984	M	X	M	M	X	M	M
1985	M	X	M	M	X	M	M
1986	M	X	M	M	X	M	M
1987	M	X	M	M	X	M	M
1988	M	X	M	M	X	M	M
1989	M	X	M	M	X	M	M
1990	M	X	M	M	X	M	M
1991	M	X	M	M	X	M	M
1992	M	X	M	M	X	M	M
1993	M	X	M	M	X	M	M
1994	M	X	M	M	X	M	M
1995	M	X	M	M	X	M	M
1996	M	X	M	M	X	M	M
1997	M	X	M	M	X	M	M
1998	M	X	M	M	X	M	M
1999	M	X	M	M	X	M	M
2000	M	X	M	M	X	M	M
2001	M	X	M	M	X	M	M
2002	M	X	M	M	X	M	M
2003	M	X	M	M	X	M	M
2004	M	X	M	M	X	M	M
2005	M	X	M	M	X	M	M

Sources: Cassing, Nassar, Siam and Moussa (2007)

a. Exportable (X), import-coming (M) and nontradable (H).

Table 7: Annual distortion estimates, **Ethiopia**, 1981 to 2005(a) Nominal rates of assistance to covered products  
(percent)

	Chat	Coffee	Hides & skins	Maize	Oilseed	Pulse	Teff	Wheat	All covered
1981	-51	-15	-46	-2	-52	-35	-2	-3	-10
1982	-52	-26	-47	-4	-48	-34	-4	-6	-12
1983	-53	-35	-47	-2	-29	-36	-2	-3	-10
1984	-53	-37	-48	-10	-44	-25	-11	-16	-16
1985	-51	-46	-46	-9	-45	-54	-10	-14	-15
1986	-50	-23	-46	-6	-39	-58	-7	-9	-14
1987	-37	-34	-53	-8	-46	-55	-9	-13	-18
1988	-46	-41	-52	-6	-65	-57	-6	-9	-16
1989	-43	-21	-52	-5	-46	-57	-6	-8	-12
1990	-44	-32	-52	-8	-49	-44	-9	-13	-16
1991	-45	-39	-49	-9	-55	-44	-11	-15	-21
1992	-45	-43	-52	-8	-63	-62	-9	-12	-19
1993	-45	-39	-51	-6	-66	-56	-6	-9	-15
1994	-46	-41	-53	-6	-52	-54	-7	-10	-15
1995	-43	-39	-50	-4	-55	-36	-5	-7	-10
1996	-45	-42	-52	-1	-62	-43	-1	-1	-9
1997	-44	-39	-51	-4	-52	-36	-5	-6	-10
1998	-43	-34	-47	-3	-50	-32	-4	-5	-8
1999	-41	-28	-45	-7	-44	-29	-8	-11	-11
2000	-41	-15	-50	-8	-46	-31	-9	-12	-12
2001	-43	-4	-50	-2	-40	-17	-2	-3	-5
2002	-47	2	-49	-7	-32	-14	-8	-11	-10
2003	-26	-10	-47	-10	na	na	-12	0	-7
2004	-41	-7	-46	-4	na	na	-5	0	-3
2005	na	-3	na	-6	na	na	-7	0	-3

Table 7 (continued): Annual distortion estimates, **Ethiopia**, 1981 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	NRA	RRA
	Inputs	Outputs							
1981	0	-10	-23	-15	-31	na	-31	30	-47
1982	0	-12	-27	-18	-35	na	-35	40	-53
1983	0	-10	-27	-16	-36	na	-36	41	-54
1984	0	-16	-28	-21	-34	na	-34	51	-56
1985	0	-15	-36	-24	-48	na	-48	45	-64
1986	0	-14	-30	-20	-39	na	-39	43	-57
1987	0	-18	-33	-24	-44	na	-44	56	-64
1988	0	-16	-37	-25	-52	na	-52	62	-71
1989	0	-12	-31	-20	-41	na	-41	51	-61
1990	0	-16	-32	-23	-42	na	-42	41	-59
1991	0	-21	-35	-26	-46	na	-46	49	-63
1992	0	-19	-39	-27	-56	na	-56	55	-71
1993	0	-15	-36	-24	-51	na	-51	45	-66
1994	0	-15	-34	-22	-46	na	-46	34	-59
1995	0	-10	-31	-19	-42	na	-42	37	-57
1996	0	-9	-32	-19	-47	na	-47	27	-58
1997	0	-10	-30	-18	-40	na	-40	16	-49
1998	0	-8	-28	-16	-37	na	-37	12	-44
1999	0	-11	-27	-17	-34	na	-34	11	-40
2000	0	-12	-23	-16	-28	na	-28	12	-36
2001	0	-5	-15	-9	-20	na	-20	10	-27
2002	0	-10	-16	-12	-17	na	-17	11	-26
2003	0	-7	-14	-10	-17	na	-17	10	-25
2004	0	-3	-16	-8	-20	na	-20	9	-27
2005	0	-3	-3	-3	-3	na	-3	14	-15

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, **Ethiopia**, 1981 to 2005  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Chat	Coffee	Hides & skins	Maize	Oilseed	Pulse	Teff	Wheat	Non- covered
1981	0	7	1	17	3	4	4	24	40
1982	0	5	0	19	3	5	4	24	39
1983	0	3	0	20	1	8	2	24	40
1984	0	3	0	24	3	5	5	22	38
1985	0	3	0	33	2	3	3	17	40
1986	0	5	0	21	2	4	3	26	39
1987	0	6	0	20	3	4	3	25	39
1988	0	5	0	24	4	3	3	20	41
1989	0	4	0	24	2	4	3	24	40
1990	0	3	0	32	3	6	3	13	39
1991	0	3	0	17	4	8	4	26	38
1992	0	4	0	26	3	4	4	18	40
1993	0	5	0	21	3	3	5	23	41
1994	0	7	0	25	2	2	4	20	40
1995	0	4	0	26	2	3	4	20	41
1996	0	5	0	24	2	3	4	19	41
1997	0	4	0	27	1	3	2	22	40
1998	0	3	0	25	1	2	3	24	41
1999	1	2	0	32	1	1	3	20	40
2000	1	3	0	32	1	3	4	17	39
2001	1	3	0	18	1	4	3	29	40
2002	1	2	0	21	1	2	4	30	39
2003	0	2	0	32	na	na	3	23	39
2004	1	2	0	29	na	na	4	24	41
2005	na	2	na	33	na	na	0	26	39

a. At farmgate undistorted prices

Table 7 (continued): Annual distortion estimates, **Ethiopia**, 1981 to 2005  
(d) Trade status<sup>a</sup> for covered products

	Chat	Coffee	Hides & skins	Maize	Oilseed	Pulse	Teff	Wheat
1981	X	X	X	H	X	X	H	H
1982	X	X	X	H	X	X	H	H
1983	X	X	X	H	X	X	H	H
1984	X	X	X	H	X	X	H	H
1985	X	X	X	H	X	X	H	H
1986	X	X	X	H	X	X	H	H
1987	X	X	X	H	X	X	H	H
1988	X	X	X	H	X	X	H	H
1989	X	X	X	H	X	X	H	H
1990	X	X	X	H	X	X	H	H
1991	X	X	X	H	X	X	H	H
1992	X	X	X	H	X	X	H	H
1993	X	X	X	H	X	X	H	H
1994	X	X	X	H	X	X	H	H
1995	X	X	X	H	X	X	H	H
1996	X	X	X	H	X	X	H	H
1997	X	X	X	H	X	X	H	H
1998	X	X	X	H	X	X	H	H
1999	X	X	X	H	X	X	H	H
2000	X	X	X	H	X	X	H	H
2001	X	X	X	H	X	X	H	H
2002	X	X	X	H	X	X	H	H
2003	X	X	X	H	X	X	H	H
2004	X	X	X	H	X	X	H	H
2005	X	X	X	H	X	X	H	H

*Sources:* Rashid, Assefa and Ayele (2007)

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

Table 8: Annual distortion estimates, **Ghana**, 1955 to 2004  
(a) Nominal rates of assistance to covered products (percent)

	Cassava	Cocoa	Groundnut	Maize	Plantain	Rice	Yam	All covered
1955	0	-6	0	-19	0	-8.1	0	-3
1956	0	-5	0	-2	0	-2.9	0	-2
1957	0	-6	0	-34	0	-3.1	0	-3
1958	0	-32	0	3	0	-8.9	0	-15
1959	0	-23	0	-18	0	-8.8	0	-12
1960	0	-15	0	-18	0	-16.5	0	-8
1961	0	-1	0	27	0	-25.2	0	0
1962	0	-25	0	-11	0	-54	0	-14
1963	0	-37	0	-15	0	-12	0	-21
1964	0	-39	0	-2	0	-32	0	-24
1965	0	-44	0	-6	0	-29	0	-22
1966	0	-59	0	8	0	-25	0	-25
1967	0	-56	0	-38	0	-43	0	-30
1968	0	-63	0	-8	0	-55	0	-32
1969	0	-64	0	38	0	-33	0	-32
1970	0	-55	0	-6	0	-19	0	-28
1971	0	-22	0	41	0	35	0	-6
1972	0	-49	0	38	0	5	0	-19
1973	0	-62	0	-16	0	-38	0	-31
1974	0	-60	0	-23	0	-58	0	-31
1975	0	-58	0	-14	0	-30	0	-27
1976	0	-84	0	2	0	0	0	-43
1977	0	-92	0	47	0	-22	0	-47
1978	0	-84	0	81	0	-7	0	-35
1979	0	-87	0	-10	0	-48	0	-53
1980	0	-75	0	161	0	5	0	-23
1981	0	-93	0	11	0	-56	0	-46
1982	0	-92	0	-42	0	-50	0	-59
1983	na	na	na	na	na	na	na	na
1984	0	-72	0	95	0	207	0	-1
1985	0	-76	0	18	0	53	0	-18
1986	0	-73	0	46	0	21	0	-19
1987	0	-57	0	172	0	87	0	-1
1988	0	-43	0	79	0	94	0	-1
1989	0	-34	0	14	0	143	0	-3
1990	0	-38	0	60	0	40	0	-4
1991	0	-26	0	66	0	23	0	1
1992	0	-25	0	54	0	25	0	-1
1993	0	-40	0	17	0	24	0	-3
1994	0	-52	0	-4	0	-4	0	-9
1995	0	-34	0	19	0	1	0	-5
1996	0	-38	-2	0	0	1	0	-8
1997	0	-36	21	0	0	18	0	-4
1998	0	-28	43	0	0	10	0	-3
1999	0	-18	10	0	0	24	0	-3
2000	0	-38	-52	39	0	8	0	-7
2001	0	-25	7	67	0	47	0	1
2002	0	-8	-5	22	0	30	0	1
2003	0	-23	-12	17	0	33	0	-5
2004	0	-13	-12	50	0	37	0	-1

Table 8 (continued): Annual distortion estimates, **Ghana**, 1955 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	NRA	RRA
	Inputs	Outputs							
1955	0	-3	3	-1	-7	7	-3	4	-7
1956	0	-2	3	-1	-6	13	-2	2	-4
1957	0	-3	3	-2	-7	4	-4	3	-7
1958	0	-15	3	-10	-31	14	-21	5	-25
1959	0	-12	3	-8	-23	10	-16	4	-20
1960	0	-8	3	-5	-16	10	-11	4	-14
1961	0	0	3	1	-3	19	2	4	-2
1962	0	-14	3	-9	-26	13	-18	1	-19
1963	0	-21	4	-14	-36	16	-27	-1	-26
1964	0	-24	4	-16	-38	19	-29	0	-28
1965	0	-22	4	-15	-43	18	-30	-6	-25
1966	0	-25	4	-17	-56	18	-35	0	-35
1967	0	-30	4	-22	-53	-5	-42	0	-42
1968	0	-32	4	-23	-60	1	-44	3	-46
1969	0	-32	4	-22	-61	23	-42	2	-44
1970	0	-28	4	-19	-52	12	-35	-4	-32
1971	0	-6	3	-3	-22	28	-7	5	-11
1972	0	-19	3	-12	-46	27	-24	6	-28
1973	0	-31	3	-20	-57	1	-38	6	-41
1974	0	-31	3	-21	-56	-10	-40	1	-41
1975	0	-27	4	-18	-54	7	-37	0	-37
1976	0	-43	4	-27	-77	26	-52	-3	-51
1977	0	-47	3	-30	-85	37	-58	-10	-54
1978	0	-35	4	-22	-76	40	-49	-10	-43
1979	0	-53	3	-30	-79	26	-55	-6	-52
1980	0	-23	4	-14	-68	69	-32	-3	-29
1981	0	-46	3	-32	-87	15	-61	1	-61
1982	0	-59	3	-38	-85	10	-65	4	-67
1983	na	na	na	na	na	na	na	na	na
1984	0	-1	4	-1	-65	84	-2	-2	0
1985	0	-18	4	-14	-72	31	-41	-5	-38
1986	0	-19	4	-15	-69	41	-40	-1	-39
1987	0	-1	3	0	-52	90	0	3	-3
1988	0	-1	3	0	-41	67	0	5	-5
1989	0	-3	3	-2	-33	39	-5	4	-9
1990	0	-4	3	-2	-35	39	-7	3	-11
1991	0	1	3	2	-25	37	7	4	2
1992	0	-1	3	0	-24	32	1	4	-3
1993	0	-3	3	-2	-36	20	-7	3	-10
1994	0	-9	3	-6	-46	5	-21	4	-24
1995	0	-5	3	-4	-32	16	-12	4	-15
1996	0	-8	3	-5	-24	13	-14	3	-17
1997	0	-4	3	-2	-15	20	-7	3	-10
1998	0	-3	3	-2	-13	18	-6	4	-9
1999	0	-3	3	-2	-13	21	-5	3	-8
2000	0	-7	3	-5	-39	24	-15	7	-20
2001	0	1	3	2	-17	41	6	8	-2
2002	0	1	3	1	-8	22	3	4	-1
2003	0	-5	3	-4	-21	21	-9	3	-12
2004	0	-1	3	-1	-14	33	-2	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 8 (continued): Annual distortion estimates, **Ghana**, 1955 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Cassava	Cocoa	Groundnut	Maize	Plantain	Rice	Yam	Non-covered
1955	6	28	2	3	6	1	27	27
1956	6	29	2	3	5	1	26	27
1957	7	27	2	3	6	1	28	27
1958	5	33	2	2	5	1	25	27
1959	5	36	2	2	5	1	23	27
1960	5	36	1	2	5	1	23	27
1961	6	32	2	2	5	1	25	27
1962	5	37	1	3	4	1	22	27
1963	5	40	1	2	4	1	18	27
1964	5	44	1	2	3	1	16	27
1965	9	36	1	3	4	1	19	27
1966	10	31	1	6	4	1	18	27
1967	8	35	1	4	4	3	20	26
1968	6	34	2	4	4	3	20	26
1969	7	37	2	3	4	2	19	26
1970	7	35	3	6	4	1	14	30
1971	10	28	4	4	6	1	18	30
1972	10	31	3	5	4	2	13	32
1973	8	30	4	7	5	3	12	32
1974	7	30	5	7	4	4	14	30
1975	10	31	4	4	6	3	13	30
1976	10	34	3	4	6	2	8	33
1977	12	35	2	2	6	2	7	33
1978	11	29	3	1	8	2	11	35
1979	6	35	3	3	4	1	7	40
1980	12	26	6	3	5	1	12	35
1981	14	34	4	5	3	3	7	29
1982	9	40	4	5	3	1	6	33
1983	na	na	na	na	na	na	na	na
1984	15	12	10	6	13	1	26	17
1985	14	22	8	5	14	1	20	16
1986	19	26	8	5	7	1	17	17
1987	28	14	7	4	10	1	16	19
1988	14	21	9	7	10	3	18	17
1989	16	17	8	5	9	2	23	21
1990	21	17	4	4	10	2	18	25
1991	23	9	2	4	7	2	30	23
1992	23	12	3	4	7	2	26	24
1993	22	9	4	5	9	2	29	21
1994	20	13	4	6	10	3	21	23
1995	19	15	3	5	13	3	21	21
1996	18	16	3	6	10	4	21	23
1997	18	11	3	9	12	2	21	24
1998	21	12	3	5	10	2	26	22
1999	18	17	3	4	9	2	25	23
2000	20	14	4	4	12	2	21	22
2001	31	9	4	3	12	2	21	18
2002	24	10	7	5	9	2	25	18
2003	18	20	6	4	9	2	21	21
2004	18	22	5	4	9	2	20	21

a. At farmgate undistorted prices



Table 8 (continued): Annual distortion estimates, **Ghana**, 1955 to 2004  
(d) Trade status<sup>a</sup> for covered products

	Cassava	Cocoa	Groundnut	Maize	Plantain	Rice	Yam
1955	H	X	H	M	H	M	H
1956	H	X	H	M	H	M	H
1957	H	X	H	M	H	M	H
1958	H	X	H	M	H	M	H
1959	H	X	H	M	H	M	H
1960	H	X	H	M	H	M	H
1961	H	X	H	M	H	M	H
1962	H	X	H	M	H	M	H
1963	H	X	H	M	H	M	H
1964	H	X	H	M	H	M	H
1965	H	X	H	M	H	M	H
1966	H	X	H	M	H	M	H
1967	H	X	H	M	H	M	H
1968	H	X	H	M	H	M	H
1969	H	X	H	M	H	M	H
1970	H	X	H	M	H	M	H
1971	H	X	H	M	H	M	H
1972	H	X	H	M	H	M	H
1973	H	X	H	M	H	M	H
1974	H	X	H	M	H	M	H
1975	H	X	H	M	H	M	H
1976	H	X	H	M	H	M	H
1977	H	X	H	M	H	M	H
1978	H	X	H	M	H	M	H
1979	H	X	H	M	H	M	H
1980	H	X	H	M	H	M	H
1981	H	X	H	M	H	M	H
1982	H	X	H	M	H	M	H
1983	na	na	na	na	na	na	na
1984	H	X	H	M	H	M	H
1985	H	X	H	M	H	M	H
1986	H	X	H	M	H	M	H
1987	H	X	H	M	H	M	H
1988	H	X	H	M	H	M	H
1989	H	X	H	M	H	M	H
1990	H	X	H	M	H	M	H
1991	H	X	H	M	H	M	H
1992	H	X	H	M	H	M	H
1993	H	X	H	M	H	M	H
1994	H	X	H	M	H	M	H
1995	H	X	H	M	H	M	H
1996	H	X	X	X	H	M	H
1997	H	X	X	X	H	M	H
1998	H	X	X	X	H	M	H
1999	H	X	X	X	H	M	H
2000	H	X	X	M	H	M	H
2001	H	X	X	M	H	M	H
2002	H	X	X	M	H	M	H
2003	H	X	X	M	H	M	H
2004	H	X	X	M	H	M	H

Sources: Brooks, Croppenstedt and Aggrey-Fynn (2007)

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

Table 9: Annual distortion estimates, **Kenya**, 1956 to 2004

(a) Nominal rates of assistance to covered products

(percent)

	Coffee	Fruits and veg, non- tradable	Fruit and veg, tradable	Maize	Sugar	Tea	Wheat	All covered
1956	-13	0	na	54	na	na	3	18
1957	-17	0	na	64	na	2	5	24
1958	-4	0	na	72	na	2	22	33
1959	-10	0	na	48	na	6	19	20
1960	-6	0	na	63	na	6	13	26
1961	1	0	-1	-16	na	16	-2	-7
1962	-12	0	-1	76	na	19	-5	18
1963	20	0	-2	62	na	8	-7	29
1964	-6	0	-1	36	-29	8	27	13
1965	-10	0	-3	-40	93	4	26	-22
1966	-22	0	-12	-32	32	-2	-10	-21
1967	-5	0	-12	53	26	-5	12	16
1968	-11	0	-9	56	68	-17	22	15
1969	-15	0	-15	28	-5	-13	1	1
1970	-24	0	-19	-31	-24	-15	-8	-23
1971	-18	0	-15	-56	-36	-11	-6	-36
1972	-20	0	-22	0	-52	-22	-20	-15
1973	-21	0	-21	-8	-62	-18	-52	-21
1974	-14	0	-11	-26	-66	-11	-49	-26
1975	1	0	-5	3	-69	-5	4	-9
1976	-1	0	-7	7	-54	-3	-2	-2
1977	-9	0	-2	-61	-4	6	8	-30
1978	-7	0	-6	-59	9	3	-5	-29
1979	-5	0	-8	24	-6	-6	-44	-3
1980	-13	0	-12	-60	-65	-12	-31	-38
1981	-21	0	-12	-42	-70	-7	-22	-33
1982	-17	0	-16	-67	-49	-19	-23	-45
1983	-9	0	-10	-24	-24	-24	-13	-19
1984	-17	0	-10	-39	-31	10	-15	-14
1985	-11	0	-3	-10	81	3	-3	-3
1986	-21	0	-4	23	29	6	32	1
1987	-16	0	-12	18	18	-14	56	-1
1988	-24	0	-7	-24	2	-35	20	-22
1989	-2	0	-3	-14	-25	-25	-12	-15
1990	-5	0	-1	0	-41	-13	12	-10
1991	-12	0	-6	-32	-33	-22	16	-22
1992	-32	0	-19	-82	-57	-63	-48	-67
1993	-41	0	-26	-51	-24	-34	-59	-41
1994	-20	0	0	-8	20	-15	26	-9
1995	-6	0	0	-16	36	-25	34	-11
1996	-1	0	-3	-11	4	-20	15	-9
1997	1	0	-3	9	10	-20	57	-1
1998	-15	0	-6	-20	30	-6	36	-9
1999	-3	0	0	12	73	-3	42	8
2000	-8	0	0	-1	8	-3	48	-1
2001	5	0	0	24	-1	7	48	12
2002	-23	0	0	-10	62	-4	53	-1
2003	-2	0	0	-6	55	-1	51	3
2004	11	0	0	-5	58	2	31	5

Table 9 (continued): Annual distortion estimates, **Kenya**, 1956 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	NRA	RRA
	Inputs	Outputs							
1956	0	18	0	23	21	3	36	18	15
1957	0	24	0	26	27	5	41	18	19
1958	0	33	0	32	35	22	51	21	25
1959	0	20	0	25	20	19	38	23	12
1960	0	26	0	29	26	30	45	21	20
1961	0	-7	0	4	5	-16	6	16	-9
1962	0	18	0	22	21	-5	35	26	7
1963	0	29	0	34	31	31	57	24	27
1964	0	13	0	26	2	-29	45	22	18
1965	0	-22	0	-4	-1	-37	-5	28	-26
1966	0	-21	0	-6	-15	-30	-9	31	-30
1967	0	16	0	22	17	26	36	29	5
1968	0	15	0	23	15	68	37	28	8
1969	0	1	0	13	1	-5	19	30	-8
1970	0	-23	0	-10	-19	-24	-4	32	-27
1971	0	-36	0	-23	-14	-54	-29	28	-44
1972	0	-15	0	-3	-13	-36	-5	21	-21
1973	0	-21	0	-10	-15	-57	-12	22	-28
1974	0	-26	0	-13	-19	-58	-17	19	-30
1975	0	-9	0	4	1	-51	6	19	-11
1976	0	-2	0	10	2	-54	13	20	-6
1977	0	-30	0	-21	-5	2	8	20	-10
1978	0	-29	0	-15	-4	3	18	21	-2
1979	0	-3	0	13	-6	-26	14	20	-5
1980	0	-38	0	-23	-12	-57	-8	31	-30
1981	0	-33	0	-19	-16	-60	-14	32	-35
1982	0	-45	0	-30	-18	-39	1	39	-27
1983	0	-19	0	-16	-16	-19	-17	32	-37
1984	0	-14	0	-5	-3	-27	5	32	-21
1985	0	-3	0	11	-3	33	25	28	-2
1986	0	1	0	13	-10	30	14	30	-13
1987	0	-1	0	21	-15	30	31	30	1
1988	0	-22	0	-9	-27	8	-5	29	-26
1989	0	-15	0	17	-14	-21	36	25	9
1990	0	-10	0	2	-10	-29	4	21	-15
1991	0	-22	0	-8	-18	-20	2	15	-12
1992	0	-67	-2	7	-53	-78	8	17	-8
1993	0	-41	-3	-31	-36	-49	-35	21	-46
1994	0	-9	0	1	-15	-2	1	15	-13
1995	0	-11	0	-2	-16	-4	-2	16	-16
1996	0	-9	0	-1	-12	-6	-1	13	-13
1997	0	-1	0	4	-12	13	5	13	-7
1998	0	-9	-1	-3	-8	-10	-3	14	-16
1999	0	8	0	13	-3	22	17	12	4
2000	0	-1	0	5	-4	4	7	13	-5
2001	0	12	0	16	6	22	21	11	9
2002	0	-1	0	7	-6	7	9	11	-2
2003	0	3	0	9	-1	7	12	9	3
2004	0	5	0	10	3	7	13	9	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 9 (continued): Annual distortion estimates, **Kenya**, 1956 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products (percent)

	Coffee	Fruits and veg, NTr	Fruit and veg, Tr	Maize	Sugar	Tea	Wheat	Non- covered
1956	28	na	na	28	na	na	10	35
1957	18	na	na	27	na	9	9	36
1958	18	na	na	28	na	11	6	38
1959	20	na	na	27	na	12	7	35
1960	18	na	na	26	na	14	6	36
1961	16	3	0	38	na	7	5	30
1962	29	4	0	18	na	10	4	35
1963	20	4	1	22	na	11	5	37
1964	21	3	1	24	3	10	4	34
1965	16	3	1	42	1	8	4	26
1966	22	3	1	33	1	10	4	26
1967	21	3	1	22	2	12	5	34
1968	18	4	1	21	2	13	6	34
1969	21	3	1	20	3	14	7	31
1970	25	3	1	25	4	14	5	24
1971	18	2	1	41	4	10	4	19
1972	24	3	1	25	4	16	4	23
1973	26	2	1	25	7	13	5	20
1974	22	2	1	30	8	12	7	17
1975	17	4	1	32	11	11	4	20
1976	30	2	1	28	6	10	4	20
1977	30	1	1	39	2	12	1	15
1978	25	1	1	39	3	14	2	15
1979	29	2	2	16	6	19	7	20
1980	23	1	1	32	12	13	4	14
1981	24	2	2	25	15	14	4	14
1982	17	2	1	46	6	13	3	12
1983	20	2	2	28	6	21	4	17
1984	26	1	1	20	6	26	2	18
1985	21	2	1	26	3	24	4	20
1986	31	2	1	20	3	20	2	21
1987	23	3	2	22	5	23	2	20
1988	26	3	2	27	5	18	2	17
1989	19	2	2	25	8	24	3	18
1990	14	3	2	21	11	27	3	19
1991	12	2	2	28	9	27	3	17
1992	8	2	2	50	5	23	3	7
1993	13	3	2	35	4	30	3	10
1994	15	3	2	32	4	22	3	19
1995	17	3	2	27	5	23	3	19
1996	14	3	2	26	6	26	4	19
1997	15	3	2	25	5	26	3	21
1998	11	3	2	28	4	29	2	20
1999	10	4	2	26	4	29	2	22
2000	10	5	3	25	6	29	2	21
2001	5	6	3	25	6	30	3	23
2002	7	4	3	25	5	31	3	21
2003	4	7	4	27	4	28	4	21
2004	5	5	4	27	4	28	5	22

a. At farmgate undistorted prices

Table 9 (continued): Annual distortion estimates, **Kenya**, 1956 to 2004  
(d) Trade status<sup>a</sup> for covered products

	Coffee	Fruits and veg, NTr	Fruit and veg, Tr	Maize	Sugar	Tea	Wheat
1956	X	na	na	X	na	na	M
1957	X	na	na	X	na	X	M
1958	X	na	na	X	na	X	M
1959	X	na	na	X	na	X	M
1960	X	na	na	X	na	X	X
1961	X	H	M	M	M	X	X
1962	X	H	M	X	M	X	M
1963	X	H	X	X	M	X	X
1964	X	H	X	H	M	X	X
1965	X	H	X	M	M	X	X
1966	X	H	X	M	M	X	X
1967	X	H	X	X	M	X	X
1968	X	H	X	X	M	X	X
1969	X	H	X	X	M	X	X
1970	X	H	X	H	M	X	X
1971	X	H	X	M	M	X	X
1972	X	H	X	X	M	X	M
1973	X	H	X	X	M	X	M
1974	X	H	X	X	M	X	M
1975	X	H	X	X	M	X	M
1976	X	H	X	X	M	X	X
1977	X	H	X	H	M	X	M
1978	X	H	X	H	M	X	M
1979	X	H	X	H	M	X	M
1980	X	H	X	H	M	X	M
1981	X	H	X	H	M	X	M
1982	X	H	X	H	M	X	M
1983	X	H	X	H	M	X	M
1984	X	H	X	H	M	X	M
1985	X	H	X	H	M	X	M
1986	X	H	X	H	M	X	M
1987	X	H	X	H	M	X	M
1988	X	H	X	H	M	X	M
1989	X	H	X	H	M	X	M
1990	X	H	X	H	M	X	M
1991	X	H	X	H	M	X	M
1992	X	H	X	M	M	X	M
1993	X	H	X	M	M	X	M
1994	X	H	X	M	M	X	M
1995	X	H	X	M	M	X	M
1996	X	H	X	M	M	X	M
1997	X	H	X	M	M	X	M
1998	X	H	X	M	M	X	M
1999	X	H	X	M	M	X	M
2000	X	H	X	M	M	X	M
2001	X	H	X	M	M	X	M
2002	X	H	X	M	M	X	M
2003	X	H	X	M	M	X	M
2004	X	H	X	M	M	X	M

Sources: Winter-Nelson and Argwings-Kodhek (2007)

Table 10: Annual distortion estimates, **Madagascar**, 1961 to 2003(a) Nominal rates of assistance to covered products  
(percent)

	Cassava	Clove	Cocoa	Coffee	Maize	Pepper	Rice	Sugar	Vanilla	Yam	All covered
1961	0	na	na	na	na	na	-27	-2	-62	0	-24
1962	0	na	na	na	na	na	-15	3	-61	0	-13
1963	0	na	na	na	na	na	-21	1	-66	0	-19
1964	0	na	na	na	na	na	-25	0	-53	0	-21
1965	0	na	na	na	na	na	-25	0	-55	0	-21
1966	0	-57	-12	-29	-41	-62	-24	-2	-42	0	-24
1967	0	-54	-20	-20	-25	-48	-5	-2	-57	0	-17
1968	0	-59	-37	-21	0	-41	-40	-2	-52	0	-32
1969	0	-8	-57	-37	-44	16	-21	-2	-57	0	-23
1970	0	8	-29	-15	0	-9	5	-1	-43	0	-2
1971	0	18	-7	-14	13	-19	3	-2	-35	0	-2
1972	0	26	-14	-8	0	6	-1	-1	-34	0	-3
1973	0	-69	-42	-11	0	6	-51	1	-37	0	-38
1974	0	-74	-61	-28	0	-5	-64	-2	-46	0	-55
1975	0	-74	-46	-22	0	-24	-32	-4	-46	0	-28
1976	0	-84	-78	-75	0	-47	-31	-4	-68	0	-47
1977	0	-82	-78	-74	63	-35	13	0	-47	0	-35
1978	0	-85	-85	-76	25	-57	-43	-3	-75	0	-52
1979	0	-78	-69	-68	0	-34	-7	-1	-49	0	-27
1980	0	-85	-58	-60	0	-19	-21	-1	-57	0	-35
1981	0	-91	-58	-58	0	-38	-51	0	-67	0	-52
1982	0	-95	-75	-83	0	-57	-55	-3	-87	0	-63
1983	0	-96	-78	-85	0	-54	-54	-1	-86	0	-58
1984	0	-93	-73	-81	-21	-65	-30	0	-85	0	-49
1985	0	-79	-63	-68	0	-73	16	2	-83	0	-22
1986	0	-80	-58	-59	0	-77	-3	0	-81	0	-20
1987	0	-89	-79	-64	16	-88	-23	-1	-91	0	-39
1988	0	-91	-66	-58	-26	-83	-1	-1	-87	0	-30
1989	0	-86	-36	-44	-23	-78	-2	-1	-85	0	-20
1990	0	-86	-37	-21	40	-71	-3	-1	-84	0	-10
1991	0	-82	-7	-31	53	-27	-6	-1	-89	0	-13
1992	0	-68	-50	-61	14	-16	0	-1	-73	0	-8
1993	0	-45	-52	-69	38	-22	-1	1	-73	0	-8
1994	0	-32	17	38	-2	-15	1	2	-71	0	2
1995	0	-56	0	-31	-30	-50	-4	-1	-69	0	-10
1996	0	-61	-21	-16	0	-49	-2	2	-49	0	-4
1997	0	-74	-35	-20	-41	-78	-3	-1	9	0	-6
1998	0	31	-34	7	0	-70	1	0	-5	0	1
1999	0	24	-24	-4	0	-63	3	-3	-29	0	0
2000	0	-3	-24	-27	40	20	9	-2	-9	0	3
2001	0	-55	1	-18	30	6	9	-1	6	0	-2
2002	0	2	-23	-46	18	-56	6	0	-35	0	-4
2003	0	na	-28	-59	na	na	6	0	na	na	1

Table 10 (continued): Annual distortion estimates, **Madagascar**, 1961 to 2003 (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	-24	0	-8	-23	21	-22	12	-30
1962	0	-13	0	-5	-13	18	-13	10	-21
1963	0	-19	0	-7	-18	22	-17	12	-26
1964	0	-21	0	-8	-20	20	-19	11	-27
1965	0	-21	0	-8	-8	-24	-20	12	-29
1966	0	-24	-2	-12	-26	22	-26	12	-34
1967	0	-17	-1	-8	-18	20	-18	11	-26
1968	0	-32	-1	-17	-35	20	-35	11	-41
1969	0	-23	-1	-10	-25	26	-24	16	-34
1970	0	-2	0	-1	-3	18	-2	10	-11
1971	0	-2	0	-1	-10	4	-2	9	-10
1972	0	-3	0	-1	-6	0	-3	8	-10
1973	0	-38	-1	-24	-21	-50	-42	8	-46
1974	0	-55	-1	-40	-45	-63	-58	9	-61
1975	0	-28	-1	-19	-30	-32	-31	11	-38
1976	0	-47	-2	-33	-72	-31	-52	17	-59
1977	0	-35	-1	-26	-68	13	-38	7	-42
1978	0	-52	-1	-38	-71	-43	-56	18	-63
1979	0	-27	-1	-19	-59	-6	-31	14	-39
1980	0	-35	-1	-27	-61	-21	-39	14	-46
1981	0	-52	-1	-40	-65	-50	-56	19	-63
1982	0	-63	-2	-47	-81	-54	-68	26	-74
1983	0	-58	-1	-43	-80	-53	-66	25	-72
1984	0	-49	-1	-37	-78	-28	-59	16	-65
1985	0	-22	0	-15	-66	17	-30	13	-38
1986	0	-20	-2	-15	-62	-3	-27	11	-34
1987	0	-39	-2	-27	-67	-22	-46	17	-54
1988	0	-30	-2	-20	-64	26	-63	15	-68
1989	0	-20	-2	-14	-51	-2	-23	8	-29
1990	0	-10	-1	-7	-36	-3	-16	10	-23
1991	0	-13	-1	-9	-38	-6	-20	8	-26
1992	0	-8	-1	-6	-53	1	-13	12	-22
1993	0	-8	-1	-6	-40	23	-38	14	-46
1994	0	2	0	1	5	2	3	13	-9
1995	0	-10	-1	-7	-36	-3	-15	9	-22
1996	0	-4	-1	-3	-19	24	-18	14	-28
1997	0	-6	-2	-5	-31	-2	-10	10	-18
1998	0	1	0	1	1	1	1	9	-7
1999	0	0	0	0	-5	2	0	9	-8
2000	0	3	0	2	-10	9	4	14	-8
2001	0	-2	0	-1	-27	9	-2	14	-15
2002	0	-4	0	-3	-26	6	-5	12	-16
2003	0	1	-1	0	-42	6	0	14	-13

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, **Madagascar**, 1961 to 2003 (c) Value shares of primary production of covered<sup>a</sup> and non-covered products, (percent)

	Cassava	Clove	Cocoa	Coffee	Maize	Pepper	Rice	Sugar	Vanilla	Yam	Non-covered
1961	3	na	na	na	na	na	28	2	1	2	63
1962	4	na	na	na	na	na	28	2	1	2	63
1963	3	na	na	na	na	na	28	2	2	2	63
1964	3	na	na	na	na	na	30	2	1	2	62
1965	4	na	na	na	na	na	28	2	2	2	62
1966	3	0	0	9	2	1	26	2	2	1	54
1967	3	6	0	8	2	1	22	2	2	1	54
1968	3	0	0	7	1	0	34	2	1	1	50
1969	3	1	0	7	2	0	24	2	2	1	57
1970	3	3	0	9	1	0	21	2	1	1	58
1971	3	1	0	7	1	1	23	2	2	4	56
1972	3	1	0	8	1	1	24	2	2	5	52
1973	3	3	0	7	1	1	40	2	2	3	38
1974	3	8	0	6	1	0	49	2	1	2	27
1975	4	3	0	9	1	1	41	2	2	3	33
1976	3	9	0	18	1	1	31	1	1	4	32
1977	4	10	0	27	1	1	24	2	1	4	27
1978	3	9	0	17	1	1	36	2	2	3	27
1979	4	3	0	20	1	1	34	3	1	5	28
1980	4	10	0	14	1	0	38	3	2	4	24
1981	3	10	0	11	1	0	43	2	3	3	23
1982	3	10	0	16	1	0	35	2	5	2	26
1983	6	5	0	17	1	0	34	2	6	2	26
1984	11	12	0	15	1	0	23	2	6	2	26
1985	14	4	0	13	1	1	21	3	7	4	32
1986	16	2	0	14	1	1	28	3	3	3	29
1987	9	2	0	13	1	1	26	2	10	2	33
1988	10	4	0	12	1	1	24	3	8	2	35
1989	10	2	0	8	4	1	33	2	7	2	32
1990	19	2	0	5	2	0	27	2	4	7	30
1991	21	3	0	5	3	0	24	2	5	4	33
1992	19	1	0	4	2	0	34	2	4	5	30
1993	15	1	0	4	2	0	39	2	4	6	27
1994	20	1	1	8	2	0	31	2	3	5	27
1995	22	1	1	9	3	0	28	2	3	4	28
1996	22	1	1	6	2	0	31	3	1	6	28
1997	18	1	1	5	3	0	31	3	1	6	31
1998	28	1	1	4	1	0	30	3	1	7	25
1999	15	3	0	4	1	0	33	3	3	6	30
2000	17	4	0	2	1	0	31	3	4	3	33
2001	18	7	0	2	1	0	29	3	5	3	32
2002	16	4	1	2	1	0	28	2	10	3	32
2003	13	na	1	3	na	na	39	4	na	na	41

a. At farmgate undistorted prices



Table 10 (continued): Annual distortion estimates, **Madagascar**, 1961 to 2003 (d) Trade status<sup>a</sup> for covered products

	Cassava	Clove	Cocoa	Coffee	Maize	Pepper	Rice	Sugar	Vanilla	Yam
1961	H	X	na	X	na	na	X	X	X	H
1962	H	X	na	X	na	na	X	X	X	H
1963	H	X	na	X	na	na	X	X	X	H
1964	H	X	na	X	na	na	X	X	X	H
1965	H	X	na	X	na	na	M	X	X	H
1966	H	X	X	X	X	X	X	X	X	H
1967	H	X	X	X	X	X	X	X	X	H
1968	H	X	X	X	H	X	X	X	X	H
1969	H	X	X	X	X	X	X	X	X	H
1970	H	X	X	X	H	X	X	X	X	H
1971	H	X	X	X	X	X	M	X	X	H
1972	H	X	X	X	H	X	M	X	X	H
1973	H	X	X	X	H	X	M	X	X	H
1974	H	X	X	X	H	X	M	X	X	H
1975	H	X	X	X	H	X	M	X	X	H
1976	H	X	X	X	H	X	M	X	X	H
1977	H	X	X	X	X	X	M	X	X	H
1978	H	X	X	X	X	X	M	X	X	H
1979	H	X	X	X	H	X	M	X	X	H
1980	H	X	X	X	H	X	M	X	X	H
1981	H	X	X	X	H	X	M	X	X	H
1982	H	X	X	X	H	X	M	X	X	H
1983	H	X	X	X	H	X	M	X	X	H
1984	H	X	X	X	X	X	M	X	X	H
1985	H	X	X	X	H	X	M	X	X	H
1986	H	X	X	X	H	X	M	M	X	H
1987	H	X	X	X	X	X	M	X	X	H
1988	H	X	X	X	X	X	H	X	X	H
1989	H	X	X	X	X	X	M	X	X	H
1990	H	X	X	X	X	X	M	X	X	H
1991	H	X	X	X	X	X	M	X	X	H
1992	H	X	X	X	M	X	M	X	X	H
1993	H	X	X	X	X	X	H	X	X	H
1994	H	X	X	X	X	X	M	X	X	H
1995	H	X	X	X	X	X	M	M	X	H
1996	H	X	X	X	H	X	H	X	X	H
1997	H	X	X	X	X	X	M	M	X	H
1998	H	X	X	X	H	X	M	M	X	H
1999	H	X	X	X	H	X	M	M	X	H
2000	H	X	X	X	M	X	M	M	X	H
2001	H	X	X	X	M	X	M	M	X	H
2002	H	X	X	X	M	X	M	M	X	H
2003	H	na	X	X	na	na	M	M	na	na

Source: Maret (2007)

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

Table 11: Annual distortion estimates, **Mali**, 1970 to 2005(a) Nominal rates of assistance to covered products  
(percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	0	-47	0	0	0	-2
1971	0	-54	0	0	0	-5
1972	0	-57	0	0	0	-5
1973	0	-78	0	0	0	-11
1974	0	-47	0	0	0	-4
1975	0	-59	0	0	0	-8
1976	0	-73	0	0	0	-17
1977	0	-47	0	0	0	-5
1978	0	-58	0	0	0	-6
1979	0	-43	0	0	0	-5
1980	0	-55	0	0	0	-6
1981	0	-48	0	0	0	-4
1982	0	-61	0	0	0	-7
1983	0	-67	0	0	0	-10
1984	0	-59	0	0	0	-6
1985	0	-6	0	0	0	0
1986	0	-14	0	0	0	-1
1987	0	-25	0	0	0	-3
1988	0	-20	0	0	0	-2
1989	0	-49	0	0	0	-9
1990	0	-33	0	0	0	-6
1991	0	-15	0	0	0	-1
1992	0	21	0	0	0	2
1993	0	-21	0	0	0	-2
1994	0	-64	0	0	0	-17
1995	0	-45	0	0	0	-11
1996	0	-42	0	0	0	-8
1997	0	-40	0	0	0	-11
1998	0	-10	0	0	0	-1
1999	0	-22	0	0	0	-3
2000	0	-32	0	0	0	-5
2001	0	15	0	0	0	2
2002	0	-9	0	0	0	-1
2003	0	-11	0	0	0	-2
2004	0	43	0	0	0	6
2005	0	11	0	0	0	1

Table 11 (continued): Annual distortion estimates, **Mali**, 1970 to 2005  
 (b) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
 (percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	1	1	9	13	1	75
1971	1	2	8	12	1	76
1972	1	2	7	13	1	76
1973	1	4	8	15	2	70
1974	0	2	9	17	1	70
1975	0	4	9	17	1	69
1976	0	6	8	12	1	73
1977	0	2	6	12	1	79
1978	0	3	8	14	1	74
1979	0	3	7	13	1	76
1980	0	3	8	13	1	75
1981	0	2	9	14	1	73
1982	0	3	11	15	1	71
1983	0	5	10	15	1	69
1984	0	3	10	16	1	70
1985	0	2	15	21	1	61
1986	0	3	10	16	2	69
1987	0	3	11	15	2	69
1988	0	4	13	16	2	66
1989	0	5	10	15	1	69
1990	0	6	10	17	1	66
1991	0	3	10	15	0	72
1992	0	2	9	14	1	74
1993	0	2	8	10	0	79
1994	0	6	9	9	0	75
1995	0	7	8	13	1	71
1996	0	5	8	11	0	75
1997	0	7	8	11	0	73
1998	0	4	12	14	0	69
1999	0	4	10	11	1	74
2000	0	3	6	8	1	82
2001	0	3	9	11	1	76
2002	0	3	10	13	0	73
2003	0	5	11	12	0	71
2004	0	4	10	13	1	71
2005	0	3	12	13	0	71

a. At farmgate undistorted prices

Table 11 (continued): Annual distortion estimates, **Mali**, 1970 to 2005  
(c) Trade status<sup>a</sup> of covered products

	Cassava	Cotton	Millet	Sorghum	Yam
1970	H	X	H	H	H
1971	H	X	H	H	H
1972	H	X	H	H	H
1973	H	X	H	H	H
1974	H	X	H	H	H
1975	H	X	H	H	H
1976	H	X	H	H	H
1977	H	X	H	H	H
1978	H	X	H	H	H
1979	H	X	H	H	H
1980	H	X	H	H	H
1981	H	X	H	H	H
1982	H	X	H	H	H
1983	H	X	H	H	H
1984	H	X	H	H	H
1985	H	X	H	H	H
1986	H	X	H	H	H
1987	H	X	H	H	H
1988	H	X	H	H	H
1989	H	X	H	H	H
1990	H	X	H	H	H
1991	H	X	H	H	H
1992	H	X	H	H	H
1993	H	X	H	H	H
1994	H	X	H	H	H
1995	H	X	H	H	H
1996	H	X	H	H	H
1997	H	X	H	H	H
1998	H	X	H	H	H
1999	H	X	H	H	H
2000	H	X	H	H	H
2001	H	X	H	H	H
2002	H	X	H	H	H
2003	H	X	H	H	H
2004	H	X	H	H	H
2005	H	X	H	H	H

Sources: Baffes (2007)

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

Table 12: Annual distortion estimates, **Mozambique**, 1976 to 2003  
(a) Nominal rates of assistance to covered products  
(percent)

	Bean	Cashew	Cassava	Cotton	Ground nut	Maize (South)	Maize (Centre and Nroth)	Millet
1976	na	-79	0	-79	-79	-86	-86	0
1977	na	-92	0	-85	-82	-83	-74	0
1978	na	-86	0	-43	-53	-50	-88	0
1979	na	-85	0	-50	-58	-35	25	0
1980	na	-90	0	-48	-74	-52	-62	0
1981	na	-90	0	-53	-49	-46	-48	0
1982	na	-82	0	-52	-51	-29	-56	0
1983	na	-89	0	-69	-71	-53	-57	0
1984	na	-99	0	-97	-95	-94	-57	0
1985	na	-98	0	-97	-95	-91	-57	0
1986	na	-99	0	-96	-96	-94	-57	0
1987	na	-98	0	-80	-77	-64	-72	0
1988	na	-79	0	-53	-63	-42	-59	0
1989	na	-76	0	0	5	-40	-63	0
1990	na	-75	0	0	5	8	0	0
1991	na	-65	0	0	5	8	0	0
1992	na	-58	0	0	5	8	0	0
1993	26	-79	0	-3	5	8	0	0
1994	26	-88	0	-3	5	8	0	0
1995	26	-33	0	-3	5	8	0	0
1996	42	-15	0	-3	8	8	0	0
1997	42	-9	0	-2	8	8	0	0
1998	58	-7	0	-2	20	8	0	0
1999	52	-4	0	-2	52	na	0	0
2000	52	-1	0	-2	46	20	0	0
2001	52	-12	0	-2	46	20	0	0
2002	52	-5	0	-2	46	20	0	0
2003	46	-4	0	-2	46	20	0	0

Continued over

Table 12 (a) (cont)

	Potato	Rice	Sorghu m	Sugar	Tobacc o	Yam	All covered
1976	0	-85	0	-80	-78	0	-64
1977	0	-82	0	-79	-80	0	-64
1978	0	-56	0	-44	-53	0	-44
1979	0	-45	0	-36	-46	0	-21
1980	0	-46	0	-58	-27	0	-45
1981	0	-46	0	-58	-45	0	-33
1982	0	-26	0	-58	-51	0	-25
1983	0	-48	0	-61	-71	0	-31
1984	0	-94	0	-93	-95	0	-75
1985	0	-91	0	-94	-96	0	-74
1986	0	-93	0	-96	-70	0	-79
1987	0	-67	0	-49	-54	0	-50
1988	0	-64	0	-43	-35	0	-30
1989	0	-63	0	-47	-18	0	-25
1990	0	-51	0	-38	-52	0	-8
1991	0	-43	0	36	-56	0	-3
1992	0	-59	0	31	6	0	-3
1993	0	-49	0	31	-44	0	-2
1994	0	-46	0	34	-12	0	-4
1995	0	-40	0	6	-33	0	2
1996	0	13	0	40	-62	0	4
1997	0	na	0	152	0	0	5
1998	0	na	0	146	0	0	6
1999	0	26	0	108	0	0	8
2000	0	26	0	94	0	0	7
2001	0	26	0	97	0	0	6
2002	0	na	0	114	0	0	8
2003	0	na	0	102	na	0	8

Table 12 (continued): Annual distortion estimates, **Mozambique**, 1976 to 2003 (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							
1976	0	-64	0	-48	-81	-81	-81	28	-85
1977	0	-64	0	-46	-83	-82	-83	28	-86
1978	0	-44	0	-30	-75	-53	-71	28	-77
1979	0	-21	0	-14	-41	-54	-46	28	-58
1980	0	-45	0	-26	-64	-68	-66	28	-73
1981	0	-33	0	-19	-62	-48	-58	28	-67
1982	0	-25	0	-16	-61	-43	-55	28	-64
1983	0	-31	0	-20	-67	-64	-65	28	-73
1984	0	-75	0	-45	-89	-94	-93	28	-95
1985	0	-74	0	-49	-86	-94	-91	28	-93
1986	0	-79	0	-52	-88	-95	-92	28	-94
1987	0	-50	0	-28	-81	-73	-77	28	-82
1988	0	-30	0	-16	-64	-61	-62	28	-71
1989	0	-25	0	-14	-63	-38	-53	28	-63
1990	0	-8	0	-5	-21	-27	-24	28	-41
1991	0	-3	0	-2	-23	-5	-15	28	-34
1992	0	-3	0	-2	-27	-8	-19	28	-37
1993	0	-2	0	-1	-21	7	-7	28	-27
1994	0	-4	0	-3	-36	6	-12	28	-31
1995	0	2	0	2	-6	9	4	28	-18
1996	0	4	0	3	-6	24	12	26	-10
1997	0	5	0	4	-2	29	16	28	-9
1998	0	6	0	5	-1	40	22	30	-6
1999	0	8	0	6	-1	45	26	30	-3
2000	0	7	0	5	0	47	24	24	0
2001	0	6	0	4	-2	53	27	20	5
2002	0	8	0	6	0	67	25	24	0
2003	0	8	0	6	-1	55	28	23	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 12 (continued): Annual distortion estimates, **Mozambique**, 1976 to 2003 (c) Value shares of primary production of covered<sup>a</sup> and non-covered products, (percent)

	Bean	Cashew	Cassava	Cotton	Ground nut	Maize (South)	Maize (Centre and Nroth)	Millet
1976	na	6	14	3	9	2	13	0
1977	na	11	14	5	11	2	7	0
1978	na	3	23	1	6	1	21	0
1979	na	4	34	2	9	1	2	0
1980	na	5	16	3	11	1	8	0
1981	na	5	22	3	7	1	5	0
1982	na	3	31	1	7	1	8	0
1983	na	3	29	1	10	1	7	0
1984	na	6	10	1	20	3	3	0
1985	na	8	10	3	21	4	5	0
1986	na	12	8	4	19	5	5	0
1987	na	6	16	1	13	1	10	0
1988	na	4	25	1	8	1	8	0
1989	na	4	25	1	3	1	10	0
1990	na	2	34	1	3	1	6	0
1991	na	2	56	1	3	1	5	0
1992	na	3	58	1	3	0	2	0
1993	5	2	51	1	3	1	6	0
1994	6	4	48	1	3	1	4	0
1995	11	1	40	1	5	2	8	0
1996	7	2	51	2	4	2	6	0
1997	7	1	55	2	4	2	6	0
1998	6	1	52	2	5	2	7	1
1999	4	2	44	0	4	na	6	1
2000	4	2	46	1	3	1	5	0
2001	3	1	46	1	3	1	4	1
2002	3	1	44	1	2	1	10	0
2003	5	1	45	1	2	2	8	0

Continued over



Table 12(c) (cont)

	Potato	Rice	Sorghu m	Sugar	Tobacc o	Yam	Non- covered
1976	0	4	1	21	1	0	26
1977	0	4	1	14	1	0	29
1978	1	2	1	9	1	0	31
1979	1	3	1	10	1	0	32
1980	1	2	1	9	1	0	41
1981	1	2	2	9	1	0	41
1982	2	2	2	6	1	1	36
1983	1	3	2	4	1	1	37
1984	1	9	1	4	2	0	40
1985	1	9	1	2	2	0	33
1986	0	10	1	2	1	0	33
1987	1	4	2	1	1	0	44
1988	1	4	2	1	0	1	44
1989	1	5	3	2	0	1	44
1990	1	5	3	2	1	1	40
1991	4	2	1	1	1	1	23
1992	4	1	1	0	0	1	24
1993	3	2	1	1	1	1	23
1994	3	3	1	1	0	1	23
1995	2	3	1	1	0	0	22
1996	3	3	2	1	0	1	17
1997	2	na	2	0	0	1	17
1998	2	na	4	0	1	0	16
1999	2	5	4	1	1	0	27
2000	2	1	2	1	1	0	29
2001	2	1	4	1	1	0	30
2002	2	na	3	3	2	0	28
2003	2	na	3	3	na	0	27

a. At farmgate undistorted prices

Table 12 (continued): Annual distortion estimates, **Mozambique**, 1976 to 2003 (d) Trade status<sup>a</sup> for covered products

	Bean	Cashew	Cassava	Cotton	Ground nut	Maize (South)	Maize (Centre)	Maize (North)	Millet
1976	na	X	H	X	M	M	X	X	H
1977	na	X	H	X	M	M	X	X	H
1978	na	X	H	X	M	M	X	X	H
1979	na	X	H	X	M	M	X	X	H
1980	na	X	H	X	M	M	X	X	H
1981	na	X	H	X	M	M	X	X	H
1982	na	X	H	X	M	M	X	X	H
1983	na	X	H	X	M	M	X	X	H
1984	na	X	H	X	M	M	X	X	H
1985	na	X	H	X	M	M	X	X	H
1986	na	X	H	X	M	M	X	X	H
1987	na	X	H	X	M	M	X	X	H
1988	na	X	H	X	M	M	X	X	H
1989	na	X	H	X	M	M	X	X	H
1990	na	X	H	X	M	M	X	X	H
1991	na	X	H	X	M	M	X	X	H
1992	na	X	H	X	M	M	X	X	H
1993	M	X	H	X	M	M	X	X	H
1994	M	X	H	X	M	M	X	X	H
1995	M	X	H	X	M	M	X	X	H
1996	M	X	H	X	M	M	X	X	H
1997	M	X	H	X	M	M	X	X	H
1998	M	X	H	X	M	M	X	X	H
1999	M	X	H	X	M	M	X	X	H
2000	M	X	H	X	M	M	X	X	H
2001	M	X	H	X	M	M	X	X	H
2002	M	X	H	X	M	M	X	X	H
2003	M	X	H	X	M	M	X	X	H

Continued over

Table 12(d) (cont)

	Potato	Rice	Sorghu m	Sugar	Tobacc o	Yam
1976	H	M	H	X	X	H
1977	H	M	H	X	X	H
1978	H	M	H	X	X	H
1979	H	M	H	X	X	H
1980	H	M	H	X	X	H
1981	H	M	H	X	X	H
1982	H	M	H	X	X	H
1983	H	M	H	M	X	H
1984	H	M	H	M	X	H
1985	H	M	H	M	X	H
1986	H	M	H	M	X	H
1987	H	M	H	M	X	H
1988	H	M	H	M	X	H
1989	H	M	H	M	X	H
1990	H	M	H	M	X	H
1991	H	M	H	M	X	H
1992	H	M	H	M	X	H
1993	H	M	H	M	X	H
1994	H	M	H	M	X	H
1995	H	M	H	M	X	H
1996	H	M	H	M	X	H
1997	H	M	H	M	X	H
1998	H	M	H	M	X	H
1999	H	M	H	M	X	H
2000	H	M	H	M	X	H
2001	H	M	H	M	X	H
2002	H	M	H	M	X	H
2003	H	M	H	M	X	H

*Sources:* Alfieri, Arndt and Cirera (2007)

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

Table 13: Annual distortion estimates, **Nigeria**, 1961 to 2004  
(a) Nominal rates of assistance to covered products (percent)

	Cassa va	Cocoa	Cotto n	Groun dnut	Maize	Millet	Palmo il	Rice	Sorgh um	Yam	All covere d
1961	0	-31	-76	-15	279	0	-18	70	238	0	23
1962	0	-30	-77	-17	310	0	-13	68	248	0	28
1963	0	-42	-77	-29	214	0	-35	51	176	0	16
1964	0	-38	-74	-23	234	0	-34	70	202	0	18
1965	0	-54	-74	-34	144	0	-43	49	201	0	15
1966	0	-36	-66	-29	249	0	-34	60	278	0	20
1967	0	-63	-73	-45	98	0	-42	-12	197	0	7
1968	0	-62	-53	-55	160	0	-10	4	215	0	13
1969	1	-65	-70	-65	182	0	-26	4	157	0	7
1970	0	-69	-78	-68	109	0	-57	33	165	0	-2
1971	1	-58	-78	-69	208	0	-51	103	194	0	10
1972	1	-39	-74	-59	287	1	-25	87	305	1	12
1973	1	-34	-73	-63	108	1	-47	-4	177	1	10
1974	1	-44	-77	-35	66	1	-42	-33	129	0	5
1975	1	-37	-56	-10	122	1	-8	8	149	1	11
1976	1	-39	-69	-10	256	1	20	103	203	1	16
1977	1	-64	-82	86	153	1	-58	7	171	1	-5
1978	1	-62	-75	-40	178	1	-27	-4	261	1	2
1979	3	-58	-77	30	122	2	-13	30	134	2	3
1980	4	2	-71	-51	199	3	1	27	113	3	9
1981	3	29	-66	-48	276	3	1	35	245	2	11
1982	4	-11	-68	42	341	4	-4	98	239	3	17
1983	4	-64	-91	-74	53	3	-62	15	31	2	-5
1984	1	-67	-68	-20	82	0	-63	71	129	0	7
1985	2	-72	-50	-5	127	2	-43	109	165	1	13
1986	1	-76	-78	-16	363	1	-19	29	95	1	20
1987	0	-33	-75	55	264	0	-27	129	348	0	27
1988	0	-26	-94	42	88	0	80	55	131	0	9
1989	1	44	-81	-47	59	1	-50	11	77	0	4
1990	1	18	-81	-56	92	1	-49	57	122	1	4
1991	0	15	-69	226	107	0	95	31	127	0	13
1992	0	-35	-91	-57	84	0	97	0	103	0	-2
1993	0	-40	-94	-78	37	0	-10	-18	54	0	-7
1994	-5	20	-78	-48	48	-5	405	-15	118	-5	13
1995	-5	46	-79	-63	56	-5	191	-17	73	-5	3
1996	-5	10	-85	-45	9	-5	27	-24	26	-5	-5
1997	-5	22	-81	-35	83	-5	7	3	104	-5	1
1998	-5	-31	-84	-37	226	-5	3	-3	112	-5	0
1999	-5	-34	-85	-37	271	-5	-22	21	132	-5	1
2000	-5	-37	-82	-53	189	-5	-24	14	164	-5	-3
2001	-3	-16	-81	-55	66	-4	-17	30	76	-4	-4
2002	-4	-14	-84	-59	58	-4	-13	12	63	-4	-6
2003	-5	-31	-85	-61	43	-5	-9	5	51	-5	-8
2004	-4	16	-79	-60	36	-4	0	-12	49	-4	-6

Table 13 (continued): Annual distortion estimates, **Nigeria**, 1961 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	NRA	RRA
	Inputs	Outputs							
1961	0	23	20	23	-31	240	60	1	58
1962	0	28	21	26	-29	244	71	1	69
1963	0	16	14	16	-40	180	40	2	38
1964	0	17	17	18	-37	202	46	1	44
1965	0	15	13	15	-44	177	34	1	32
1966	0	20	19	20	-36	253	61	1	59
1967	0	6	5	7	-54	139	15	1	14
1968	0	12	9	12	-50	166	31	2	29
1969	0	6	1	5	-62	150	11	1	11
1970	0	-2	-7	-3	-70	144	-7	-1	-5
1971	0	10	0	8	-65	197	21	-2	23
1972	1	11	12	14	-51	263	40	-1	42
1973	1	9	3	9	-56	98	24	-1	26
1974	1	5	4	6	-44	60	16	-3	19
1975	1	10	11	13	-34	97	39	-2	42
1976	1	15	15	18	-38	171	60	-2	64
1977	1	-5	-8	-5	-65	57	-13	-5	-9
1978	1	1	-9	-2	-68	58	-6	-3	-3
1979	3	0	1	7	-52	55	16	-3	19
1980	4	6	7	15	-30	39	39	-4	45
1981	3	8	16	18	-13	77	78	-2	81
1982	4	13	23	26	-18	160	125	-2	130
1983	3	-8	-27	-12	-80	-2	-30	-3	-28
1984	1	6	-13	-1	-74	63	-3	-4	1
1985	2	11	-14	3	-77	96	4	-4	8
1986	1	19	-19	5	-80	124	11	-2	14
1987	0	27	9	20	-54	184	73	-1	74
1988	0	9	5	9	-31	39	25	-3	29
1989	1	4	3	4	-25	20	11	-2	13
1990	1	3	-4	2	-55	36	5	-1	6
1991	0	13	15	14	-11	91	57	-2	61
1992	0	-2	-5	-2	-39	-1	-7	-5	-3
1993	0	-7	-11	-8	-48	-16	-21	-12	-10
1994	0	12	16	14	33	88	70	-10	90
1995	0	3	2	3	-35	46	25	-10	38
1996	0	-5	-8	-6	-49	9	-9	-13	5
1997	0	0	-1	1	-43	43	15	-12	30
1998	0	0	6	2	4	30	23	-10	36
1999	0	0	4	2	27	17	21	-1	22
2000	0	-3	-10	-5	43	-28	-6	-1	-5
2001	2	-5	-10	-3	-53	10	-2	-1	-1
2002	1	-7	-7	-5	-14	-11	-7	0	-7
2003	0	-9	-11	-9	-31	-14	-16	0	-16
2004	1	-6	-8	-5	-36	-2	-6	0	-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 13 (continued): Annual distortion estimates, **Nigeria**, 1961 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Cassa va	Cocoa	Cotto n	Groun dnut	Maize	Millet	Palmo il	Rice	Sorgh um	Yam	Non- cover ed
1961	18	4	4	7	2	10	5	1	7	15	27
1962	19	3	3	8	2	10	4	1	8	15	27
1963	17	4	3	8	3	9	4	1	7	17	28
1964	17	6	3	7	2	8	4	1	7	18	27
1965	15	3	3	11	3	10	6	1	8	12	28
1966	23	4	2	7	2	7	4	1	5	18	27
1967	16	6	3	7	2	10	4	2	7	14	29
1968	15	5	1	8	2	10	3	2	6	15	32
1969	7	7	3	8	3	9	3	1	7	15	36
1970	11	8	4	6	3	8	3	1	6	18	32
1971	14	5	1	6	2	8	2	1	5	22	33
1972	16	5	2	7	1	10	2	1	4	20	31
1973	10	4	2	4	2	14	2	2	6	19	34
1974	7	3	1	6	1	10	3	2	7	27	33
1975	14	5	2	2	3	9	3	2	5	25	32
1976	20	4	3	2	2	8	2	1	4	20	35
1977	18	6	5	1	1	5	4	1	3	18	37
1978	21	4	2	3	1	4	3	1	2	19	41
1979	22	6	2	1	1	5	5	2	4	23	29
1980	23	3	2	4	1	5	5	3	5	22	28
1981	37	1	1	2	1	4	2	2	2	20	28
1982	34	2	1	1	1	6	2	2	3	22	28
1983	19	2	1	3	1	4	2	2	4	11	48
1984	24	2	0	2	1	7	2	2	4	14	42
1985	23	2	0	1	2	6	2	1	3	11	48
1986	26	2	1	2	3	7	2	2	4	9	43
1987	28	2	1	1	2	7	2	2	2	10	42
1988	27	3	6	2	5	6	1	3	4	14	29
1989	20	2	2	3	4	5	2	4	3	12	43
1990	21	1	3	4	4	6	1	2	2	16	40
1991	31	1	3	1	4	5	1	3	3	21	28
1992	26	2	7	3	3	4	1	3	3	19	29
1993	23	2	4	5	4	4	3	3	4	18	30
1994	28	2	1	3	5	5	2	2	3	22	28
1995	23	1	1	3	3	5	2	2	3	24	33
1996	23	1	2	3	4	4	2	2	4	19	37
1997	26	1	1	3	2	5	2	2	3	20	34
1998	27	2	2	3	1	5	2	2	3	20	33
1999	26	1	2	3	1	5	2	2	2	21	34
2000	22	2	2	4	1	4	3	2	2	20	37
2001	26	2	2	4	2	5	4	1	3	23	28
2002	26	2	3	4	2	5	4	2	3	22	26
2003	26	3	3	4	2	5	4	2	4	21	25
2004	28	2	2	4	2	5	4	4	4	20	25

a. At farmgate undistorted prices

Table 13 (continued): Annual distortion estimates, **Nigeria**, 1961 to 2004:  
(d) Trade status<sup>a</sup> for covered products

	Cassa va	Cocoa	Cotto n	Groun dnut	Maize	Millet	Palmo il	Rice	Sorgh um	Yam
1961	H	X	X	X	M	H	X	M	M	H
1962	H	X	X	X	M	H	X	M	M	H
1963	H	X	X	X	M	H	X	M	M	H
1964	H	X	X	X	M	H	X	M	M	H
1965	H	X	X	X	M	H	X	M	M	H
1966	H	X	X	X	M	H	X	M	M	H
1967	H	X	X	X	M	H	X	M	M	H
1968	H	X	X	X	M	H	X	M	M	H
1969	H	X	X	X	M	H	X	M	M	H
1970	H	X	X	X	M	H	X	M	M	H
1971	H	X	X	X	M	H	X	M	M	H
1972	H	X	X	X	M	H	X	M	M	H
1973	H	X	X	X	M	H	M	M	M	H
1974	H	X	X	X	M	H	M	M	M	H
1975	H	X	X	M	M	H	X	M	M	H
1976	H	X	X	M	M	H	X	M	M	H
1977	H	X	X	X	M	H	M	M	M	H
1978	H	X	X	M	M	H	M	M	M	H
1979	H	X	X	X	M	H	M	M	M	H
1980	H	X	X	M	M	H	M	M	M	H
1981	H	X	X	M	M	H	M	M	M	H
1982	H	X	X	X	M	H	M	M	M	H
1983	H	X	X	M	M	H	M	M	M	H
1984	H	X	X	M	M	H	M	M	M	H
1985	H	X	X	M	M	H	M	M	M	H
1986	H	X	X	M	M	H	M	M	M	H
1987	H	X	X	M	M	H	M	M	M	H
1988	H	X	M	M	M	H	M	M	M	H
1989	H	X	X	M	M	H	M	M	M	H
1990	H	X	X	M	M	H	M	M	M	H
1991	H	X	X	X	M	H	M	M	M	H
1992	H	X	M	M	M	H	M	M	M	H
1993	H	X	M	M	M	H	M	M	M	H
1994	H	X	X	M	M	H	M	M	X	H
1995	H	X	X	M	M	H	M	M	M	H
1996	H	X	X	M	M	H	M	M	M	H
1997	H	X	X	M	M	H	M	M	M	H
1998	H	X	X	M	X	H	M	M	M	H
1999	H	X	X	M	X	H	M	M	M	H
2000	H	X	X	M	X	H	M	M	X	H
2001	H	X	X	M	M	H	M	M	M	H
2002	H	X	M	M	M	H	M	M	M	H
2003	H	X	M	M	M	H	M	M	M	H
2004	H	X	X	M	M	H	M	M	M	H

Source: Walkenhorst (2007)

a. Exportables (X), import-competing (M) and nontradable (H).

Table 14: Annual distortion estimates, **South Africa**, 1961 to 2005

(a) Nominal rates of assistance to covered products

(percent)

	Apple, nontradable	Apple, tradable	Grape, nontradable	Grape, tradable	Maize, Yellow	Maize, White	Orange, nontradable	Orange, tradable
1961	0	-5	0	-24	17	2	0	-3
1962	0	-5	0	-30	4	-11	0	-3
1963	0	-15	0	-10	-3	-18	0	2
1964	0	0	0	-19	1	-15	0	-26
1965	0	-6	0	-27	5	-11	0	-24
1966	0	2	0	-30	12	-3	0	-6
1967	0	-26	0	-26	14	-2	0	-13
1968	0	5	0	-12	33	12	0	-12
1969	0	5	0	-9	31	9	0	-34
1970	0	-3	0	-6	12	-6	0	-43
1971	0	-14	0	-21	19	-5	0	-36
1972	0	40	0	19	25	-5	0	-54
1973	0	-1	0	17	-14	-36	0	-47
1974	0	-12	0	6	-20	-48	0	-22
1975	0	-20	0	21	-10	-43	0	-27
1976	0	-34	0	6	-14	-39	0	-14
1977	0	25	0	-10	20	-9	-1	-52
1978	-1	0	-1	17	30	1	-2	-15
1979	-2	-24	-2	-32	43	12	-2	-34
1980	-2	-15	-2	-22	74	37	-2	15
1981	-2	-49	-2	-42	62	27	-3	-33
1982	-3	6	-3	-41	87	47	-3	-28
1983	-3	-13	-3	-38	-13	21	-4	-7
1984	-4	-16	-4	-23	-14	-31	-6	-24
1985	-6	24	-6	5	16	-42	-6	-38
1986	-6	25	-6	61	98	66	-6	-7
1987	-6	39	-6	39	218	143	-6	-17
1988	-6	-17	-6	21	69	-23	-6	-40
1989	-6	-5	-6	-7	30	34	-7	11
1990	-7	11	-7	-6	56	59	-5	-2
1991	-5	5	-5	-4	78	81	0	-8
1992	0	-7	0	56	4	-3	0	4
1993	0	-2	0	-11	86	-11	0	-15
1994	0	38	0	-8	56	38	0	-1
1995	0	-3	0	4	93	-15	0	-4
1996	0	8	0	1	22	0	0	23
1997	0	-5	0	12	-14	83	0	5
1998	0	-1	0	14	-27	-26	0	-17
1999	0	-36	0	14	-10	-18	0	8
2000	0	2	0	-6	39	20	0	29
2001	0	-10	0	49	54	-27	0	-16
2002	0	6	0	2	-2	8	0	26
2003	0	2	0	-2	-20	-30	0	8
2004	0	2	0	-2	-19	-32	0	10
2005	0	2	0	-1	66	13	0	21

Continued over



Table 14(a) (cont)

	Poultry	Sheepmeat	Sugar	Sunflower	Wheat	All covered
1961	-13	-6	33	9	2	0
1962	-13	37	33	23	-1	12
1963	-13	18	33	24	-7	4
1964	-13	29	33	20	-2	-2
1965	-13	12	22	12	6	1
1966	-13	14	36	11	10	8
1967	-13	12	61	23	9	11
1968	-13	11	64	20	15	16
1969	-13	18	34	23	19	12
1970	-31	13	27	13	16	1
1971	-15	65	-15	8	21	4
1972	-16	80	-29	14	87	6
1973	-10	33	-6	6	7	-5
1974	-7	9	-53	-10	-3	-22
1975	-21	66	-41	0	24	-10
1976	-34	65	-12	8	38	-3
1977	-29	42	24	9	89	10
1978	-22	15	13	14	71	14
1979	-12	6	33	6	85	8
1980	20	47	-25	29	8	15
1981	23	36	8	23	8	31
1982	6	7	65	20	118	45
1983	31	42	142	27	121	46
1984	12	10	58	1	81	19
1985	-21	-5	63	-3	42	-4
1986	-13	35	54	16	92	21
1987	9	75	51	19	154	42
1988	18	54	22	2	69	15
1989	-7	4	5	2	-27	4
1990	-3	10	-3	8	6	10
1991	-4	30	25	18	18	10
1992	5	40	109	13	16	2
1993	20	40	123	1	16	2
1994	14	45	141	-5	12	22
1995	15	32	55	-5	7	13
1996	20	12	13	-7	-5	11
1997	21	25	40	-8	-5	17
1998	4	23	30	-15	-8	-6
1999	5	25	42	1	11	-1
2000	-2	51	49	-1	20	7
2001	-15	0	28	-15	4	-8
2002	-10	-23	1	-7	-1	-6
2003	20	-7	78	0	10	6
2004	20	-3	53	4	15	3
2005	22	6	57	1	-1	19

Table 14 (cont): Annual distortion estimates, **South Africa**, 1961 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)	Exportables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1961	0	0	0	2	10	-9	3	3	0
1962	0	12	0	10	2	19	13	5	8
1963	0	4	-4	4	-2	4	4	4	1
1964	0	-2	-2	1	0	-4	1	3	-2
1965	0	1	-3	3	-4	3	3	3	0
1966	0	8	1	8	6	8	10	3	7
1967	0	11	-1	9	6	11	12	3	8
1968	0	16	2	15	21	11	19	4	15
1969	0	12	1	12	13	9	15	3	12
1970	0	1	-3	3	-1	1	4	2	2
1971	0	4	0	5	-7	13	6	3	3
1972	0	6	2	8	4	9	10	2	8
1973	0	-5	-6	-3	-12	-1	-3	3	-6
1974	0	-22	-8	-17	-35	5	-20	3	-22
1975	0	-10	-4	-6	-26	22	-7	1	-9
1976	0	-3	-2	-1	-13	9	-1	1	-2
1977	0	10	3	10	12	9	13	4	9
1978	0	14	-2	10	16	7	14	4	9
1979	0	8	-2	6	24	-9	8	2	5
1980	0	15	6	13	22	11	17	4	13
1981	0	31	3	23	21	36	30	5	24
1982	0	45	7	33	56	32	45	6	37
1983	0	46	6	33	53	39	46	8	35
1984	0	19	-2	13	21	14	19	6	12
1985	0	-4	-7	-3	23	-16	-3	3	-6
1986	0	21	0	15	58	2	21	4	17
1987	0	42	3	30	90	11	43	6	36
1988	0	15	-3	12	12	15	17	7	9
1989	0	4	-5	5	19	-6	8	8	0
1990	0	10	-3	10	24	2	14	7	7
1991	0	10	2	10	36	-2	14	8	5
1992	0	2	3	5	33	-3	7	7	0
1993	0	2	3	7	24	-6	10	7	3
1994	0	22	6	21	48	10	29	6	21
1995	0	13	4	13	34	7	18	6	11
1996	0	11	1	9	10	10	12	4	8
1997	0	17	1	14	38	8	18	4	13
1998	0	-6	-5	-5	-3	-8	-6	3	-9
1999	0	-1	-2	-2	1	-3	-2	3	-5
2000	0	7	2	5	26	-3	7	2	5
2001	0	-8	-5	-7	3	-15	-8	1	-9
2002	0	-6	0	-4	6	-12	-5	2	-6
2003	0	6	-2	4	-3	8	5	4	1
2004	0	3	-1	2	-6	7	3	4	-1
2005	0	19	1	13	29	12	17	5	12

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, **South Africa**, 1961 to 2005 (c) Value shares of primary production of covered<sup>a</sup> and non-covered products, (percent)

	Apple, nontradable	Apple, tradable	Grape, nontradable	Grape, tradable	Maize, Yellow	Maize, White	Orange, nontradable	Orange, tradable
1961	0	1	0	2	6	11	1	3
1962	0	2	0	2	6	15	1	3
1963	0	2	0	1	6	15	1	2
1964	0	2	0	1	4	10	1	3
1965	1	2	0	2	6	9	1	3
1966	0	2	0	2	5	12	1	2
1967	0	2	0	1	9	16	1	2
1968	0	3	0	2	6	8	1	2
1969	1	2	0	1	5	9	1	3
1970	0	2	0	1	6	10	1	3
1971	0	2	0	1	7	11	1	2
1972	0	2	0	1	7	12	1	3
1973	0	1	0	1	5	6	1	2
1974	0	1	0	1	11	18	1	1
1975	0	1	0	0	9	16	1	2
1976	0	1	0	0	8	12	1	2
1977	0	1	0	1	8	12	1	2
1978	0	2	0	1	9	10	1	2
1979	1	1	0	1	7	7	1	2
1980	1	1	0	1	9	7	1	2
1981	1	1	0	1	9	9	1	2
1982	1	1	0	1	5	6	1	2
1983	1	2	0	1	6	5	1	2
1984	1	1	0	1	9	5	1	1
1985	1	1	0	0	8	13	1	2
1986	1	1	0	1	6	5	1	2
1987	1	1	0	1	3	4	1	2
1988	1	1	0	1	4	10	1	2
1989	0	1	0	1	6	7	1	1
1990	1	2	0	1	4	4	1	1
1991	1	2	0	1	4	3	1	2
1992	1	2	0	1	4	2	1	2
1993	1	1	0	2	5	8	1	2
1994	1	1	0	2	7	6	1	2
1995	1	1	0	2	3	5	1	2
1996	1	1	0	2	6	9	1	2
1997	1	2	0	2	9	5	1	2
1998	1	1	0	3	5	9	1	2
1999	1	1	0	3	5	9	1	3
2000	1	1	0	3	4	7	1	2
2001	1	1	0	3	3	10	1	2
2002	1	1	0	2	8	12	1	2
2003	1	1	0	3	6	12	1	3
2004	1	1	0	3	6	11	1	3
2005	1	1	0	2	3	5	1	3

Continued over

Table 14(c) (cont)

	Poultry	Sheepmeat	Sugar	Sunflower	Wheat	Non- covered
1961	3	8	8	1	7	31
1962	4	6	9	1	5	33
1963	4	7	8	1	7	33
1964	4	7	7	1	8	31
1965	5	9	4	1	5	32
1966	5	8	6	1	4	32
1967	4	7	5	1	6	33
1968	6	9	5	1	8	34
1969	7	8	6	1	7	33
1970	6	9	5	1	7	32
1971	7	5	8	1	7	32
1972	9	4	9	1	4	31
1973	11	6	8	2	8	31
1974	7	5	12	1	5	27
1975	10	4	13	1	5	29
1976	13	4	10	1	6	30
1977	13	4	7	2	4	32
1978	12	5	7	2	3	34
1979	11	6	6	1	5	33
1980	10	5	10	1	6	32
1981	9	5	7	1	8	36
1982	12	7	5	1	5	37
1983	13	7	4	1	4	38
1984	13	7	5	1	5	35
1985	14	7	4	1	4	31
1986	17	5	4	1	4	35
1987	15	4	4	1	4	38
1988	14	4	5	1	5	34
1989	14	5	5	1	7	33
1990	16	5	6	2	5	33
1991	18	4	5	2	6	32
1992	18	4	3	1	4	30
1993	15	3	2	1	5	30
1994	18	2	3	1	5	34
1995	20	3	4	2	6	35
1996	17	3	6	2	8	32
1997	19	3	6	2	6	32
1998	18	2	6	2	4	32
1999	17	3	4	4	4	31
2000	20	2	5	1	6	32
2001	20	3	5	2	6	31
2002	18	4	5	3	6	25
2003	18	4	3	2	3	33
2004	17	4	3	2	3	33
2005	20	4	4	2	4	35

a. At farmgate undistorted prices

Table 14 (continued): Annual distortion estimates, **South Africa**, 1961 to 2005 (d) Trade status<sup>a</sup> for covered products

	Apple, nontradable	Apple, tradable	Grape, nontradable	Grape, tradable	Maize, Yellow	Maize, White	Orange, nontradable	Orange, tradable
1961	H	X	H	X	X	X	H	X
1962	H	X	H	X	X	X	H	X
1963	H	X	H	X	X	X	H	X
1964	H	X	H	X	X	X	H	X
1965	H	X	H	X	X	X	H	X
1966	H	X	H	X	X	X	H	X
1967	H	X	H	X	X	X	H	X
1968	H	X	H	X	X	X	H	X
1969	H	X	H	X	X	M	H	X
1970	H	X	H	X	X	X	H	X
1971	H	X	H	X	X	X	H	X
1972	H	X	H	X	X	X	H	X
1973	H	X	H	X	X	X	H	X
1974	H	X	H	X	X	X	H	X
1975	H	X	H	X	X	X	H	X
1976	H	X	H	X	X	X	H	X
1977	H	X	H	X	X	X	H	X
1978	H	X	H	X	X	X	H	X
1979	H	X	H	X	X	X	H	X
1980	H	X	H	X	X	X	H	X
1981	H	X	H	X	X	X	H	X
1982	H	X	H	X	X	X	H	X
1983	H	X	H	X	M	X	H	X
1984	H	X	H	X	M	X	H	X
1985	H	X	H	X	X	M	H	X
1986	H	X	H	X	X	M	H	X
1987	H	X	H	X	X	X	H	X
1988	H	X	H	X	X	X	H	X
1989	H	X	H	X	X	X	H	X
1990	H	X	H	X	X	X	H	X
1991	H	X	H	X	X	X	H	X
1992	H	X	H	X	M	X	H	X
1993	H	X	H	X	X	X	H	X
1994	H	X	H	X	X	X	H	X
1995	H	X	H	X	X	M	H	X
1996	H	X	H	X	X	X	H	X
1997	H	X	H	X	M	X	H	X
1998	H	X	H	X	M	X	H	X
1999	H	X	H	X	M	X	H	X
2000	H	X	H	X	X	X	H	X
2001	H	X	H	X	X	X	H	X
2002	H	X	H	X	M	X	H	X
2003	H	X	H	X	M	X	H	X
2004	H	X	H	X	M	X	H	X
2005	H	X	H	X	X	X	H	X

Continued over

Table 14(d) (cont)

	Poultry	Sheepmeat	Sugar	Sunflower	Wheat
1961	M	M	X	X	M
1962	M	M	X	X	M
1963	M	M	X	X	M
1964	M	M	X	X	M
1965	M	M	X	X	M
1966	M	M	X	M	M
1967	M	M	X	X	M
1968	M	M	X	M	M
1969	M	M	X	M	M
1970	M	M	X	X	M
1971	M	M	X	X	M
1972	M	M	X	X	X
1973	M	M	X	X	X
1974	M	M	X	X	X
1975	M	M	X	X	X
1976	M	M	X	X	X
1977	M	M	X	X	X
1978	M	M	X	X	X
1979	M	M	X	X	X
1980	M	M	X	X	M
1981	M	M	X	X	M
1982	M	M	X	X	X
1983	M	M	X	M	X
1984	M	M	X	M	X
1985	M	M	X	M	X
1986	M	M	X	M	X
1987	M	M	X	M	X
1988	M	M	X	M	X
1989	M	M	X	M	M
1990	M	M	X	M	M
1991	M	M	X	X	M
1992	M	M	X	M	M
1993	M	M	X	M	M
1994	M	M	X	M	M
1995	M	M	X	M	M
1996	M	M	X	M	M
1997	M	M	X	M	M
1998	M	M	X	M	M
1999	M	M	X	M	M
2000	M	M	X	M	M
2001	M	M	X	M	M
2002	M	M	X	X	M
2003	M	M	X	M	M
2004	M	M	X	M	M
2005	M	M	X	M	M

Sources: Kirsten, Edwards and Vink (2007)

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

Table 15: Annual distortion estimates, **Senegal**, 1961 to 2004  
(a) Nominal rates of assistance to covered products (percent)

	Cotton	Groundnut	Millet	Rice	All covered
1961	na	-24	0	8	-18
1962	na	-19	0	10	-14
1963	na	-20	0	8	-15
1964	na	-16	0	12	-11
1965	na	-16	0	23	-11
1966	na	-18	0	12	-11
1967	na	-11	0	-13	-9
1968	na	-9	0	-18	-6
1969	na	-32	0	-10	-22
1970	-39	-36	0	15	-21
1971	-49	-29	0	31	-23
1972	-49	-39	0	29	-26
1973	-69	-53	0	-26	-43
1974	-34	-64	0	-60	-53
1975	-45	-45	0	5	-35
1976	-62	-39	0	42	-29
1977	-45	-40	0	40	-23
1978	-55	-52	0	12	-40
1979	-45	-62	0	52	-40
1980	-46	-67	0	4	-43
1981	-41	-65	0	-24	-54
1982	-56	-9	0	17	-6
1983	-70	-30	0	3	-17
1984	-65	-52	0	33	-32
1985	0	-42	0	68	-16
1986	-8	-9	0	142	5
1987	-15	26	0	172	28
1988	-12	9	0	73	13
1989	-39	-21	0	42	-4
1990	-27	-13	0	102	6
1991	-6	-12	0	162	4
1992	22	17	0	147	18
1993	10	16	0	142	31
1994	-54	-34	0	32	-26
1995	-42	-15	0	10	-12
1996	-31	-9	0	1	-8
1997	-38	-18	0	-14	-12
1998	-12	-5	0	2	-3
1999	-10	-21	0	-9	-15
2000	-30	-35	0	6	-24
2001	-5	-34	0	-1	-22
2002	-16	-20	0	11	-8
2003	-23	-2	0	13	-1
2004	24	-14	0	1	-5

Table 15 (continued): Annual distortion estimates, **Senegal**, 1961 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	NRA	RRA
	Inputs	Outputs							
1961	0	-18	3	-12	-22	22	-16	11	-25
1962	0	-14	3	-9	-18	18	-12	10	-20
1963	0	-15	3	-10	-19	20	-13	12	-22
1964	0	-11	3	-7	-16	20	-10	11	-19
1965	0	-11	3	-6	-16	24	-9	12	-19
1966	0	-11	3	-7	-18	21	-10	12	-20
1967	0	-9	3	-5	-11	7	-7	11	-17
1968	0	-6	3	-3	-9	10	-5	11	-15
1969	0	-22	3	-14	-29	14	-21	12	-29
1970	0	-21	3	-14	-32	19	-22	10	-29
1971	0	-23	3	-15	-27	25	-20	11	-28
1972	0	-26	3	-18	-35	20	-27	10	-33
1973	0	-43	3	-30	-47	9	-39	9	-44
1974	0	-53	3	-36	-57	-2	-47	12	-53
1975	0	-35	3	-24	-40	14	-32	9	-37
1976	0	-29	3	-20	-35	23	-26	9	-32
1977	0	-23	3	-16	-36	28	-23	11	-31
1978	0	-40	4	-27	-47	25	-35	15	-43
1979	0	-40	3	-27	-55	31	-40	12	-46
1980	0	-43	3	-30	-57	11	-43	8	-47
1981	0	-54	3	-37	-57	5	-47	9	-52
1982	0	-6	3	-3	-11	20	-5	11	-14
1983	0	-17	3	-11	-28	10	-16	10	-24
1984	0	-32	3	-22	-46	24	-29	8	-35
1985	0	-16	4	-10	-37	49	-15	14	-25
1986	0	5	3	5	-9	65	8	11	-3
1987	0	28	4	21	17	84	33	13	17
1988	0	13	3	10	4	47	17	10	7
1989	0	-4	4	-2	-20	36	-2	13	-14
1990	0	6	3	5	-13	61	9	12	-3
1991	0	4	3	4	-12	71	7	12	-5
1992	0	18	3	14	11	67	26	10	15
1993	0	31	3	23	13	79	26	10	15
1994	0	-26	3	-17	-32	27	-20	11	-27
1995	0	-12	3	-7	-15	15	-8	10	-17
1996	0	-8	3	-5	-10	8	-5	9	-13
1997	0	-12	3	-7	-17	2	-12	9	-19
1998	0	-3	3	-1	-6	14	-2	11	-12
1999	0	-15	3	-10	-19	4	-13	9	-20
2000	0	-24	3	-16	-31	15	-22	10	-29
2001	0	-22	3	-15	-30	10	-21	10	-28
2002	0	-8	3	-4	-19	19	-8	12	-18
2003	0	-1	3	1	-5	20	1	13	-10
2004	0	-5	3	-3	-13	13	-5	12	-15

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, **Senegal**, 1961 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Cotton	Groundnut	Millet	Rice	Non-covered
1961	na	55	14	1	30
1962	na	52	16	2	30
1963	na	53	14	2	30
1964	na	50	17	3	30
1965	na	50	17	3	30
1966	na	46	20	4	30
1967	na	49	14	7	30
1968	na	36	29	4	30
1969	na	46	19	4	30
1970	0	41	26	3	30
1971	1	56	12	2	29
1972	1	47	21	1	30
1973	2	54	13	2	29
1974	1	54	12	4	30
1975	0	55	12	2	30
1976	1	53	14	3	30
1977	1	44	21	4	30
1978	1	55	10	5	30
1979	1	48	19	3	30
1980	1	45	19	6	30
1981	1	56	10	4	30
1982	2	43	20	5	30
1983	2	36	21	11	29
1984	2	46	13	9	29
1985	1	43	17	10	30
1986	1	36	29	5	30
1987	1	39	25	6	30
1988	1	30	30	9	30
1989	1	35	22	12	30
1990	1	29	32	8	30
1991	1	35	30	4	30
1992	1	28	36	5	30
1993	2	60	0	8	30
1994	2	59	0	9	29
1995	2	57	0	11	29
1996	3	55	0	13	29
1997	2	35	25	9	30
1998	0	42	21	7	30
1999	0	47	15	8	30
2000	0	48	16	5	30
2001	1	46	17	7	30
2002	1	30	30	8	30
2003	2	42	20	7	30
2004	1	31	28	10	30

a. At farmgate undistorted prices

Table 15 (continued): Annual distortion estimates, **Senegal**, 1961 to 2004  
(d) Trade status<sup>a</sup> for covered products

	Cotton	Groundnut	Millet	Rice
1961	X	X	H	M
1962	X	X	H	M
1963	X	X	H	M
1964	X	X	H	M
1965	X	X	H	M
1966	X	X	H	M
1967	X	X	H	M
1968	X	X	H	M
1969	X	X	H	M
1970	X	X	H	M
1971	X	X	H	M
1972	X	X	H	M
1973	X	X	H	M
1974	X	X	H	M
1975	X	X	H	M
1976	X	X	H	M
1977	X	X	H	M
1978	X	X	H	M
1979	X	X	H	M
1980	X	X	H	M
1981	X	X	H	M
1982	X	X	H	M
1983	X	X	H	M
1984	X	X	H	M
1985	X	X	H	M
1986	X	X	H	M
1987	X	X	H	M
1988	X	X	H	M
1989	X	X	H	M
1990	X	X	H	M
1991	X	X	H	M
1992	X	X	H	M
1993	X	X	H	M
1994	X	X	H	M
1995	X	X	H	M
1996	X	X	H	M
1997	X	X	H	M
1998	X	X	H	M
1999	X	X	H	M
2000	X	X	H	M
2001	X	X	H	M
2002	X	X	H	M
2003	X	X	H	M
2004	X	X	H	M

Sources: Masters (2007)

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

Table 16: Annual distortion estimates, **Sudan**, 1955 to 2004  
(a) Nominal rates of assistance to covered products  
(percent)

	Beef	Camel	Cotton	Ground Gumara		Milk	Millet	Sesame	Sheepm	Sorghu	Sugar	Wheat covered	All
				nut	bic				eat	m			
1955	24	-2	2	-32	-46	-17.9	-80	-37	-6	-35	na	7	-18
1956	26	7	-6	-42	-41	-3.2	-78	-31	1	-20	na	8	-13
1957	3	14	-9	-33	-41	35.4	-77	-30	-22	-40	na	10	-12
1958	-40	40	18	-47	1	69.7	-75	-54	-45	-34	na	12	-17
1959	-25	-32	35	-53	-39	13.0	-74	-49	-40	-47	na	13	-20
1960	-33	-29	3	-58	-43	30.8	-73	-46	-39	-51	na	26	-22
1961	-37	-31	8	-56	-35	33	-72	-51	-42	-52	47	12	-22
1962	-29	-36	3	-52	-13	25	-71	-57	-45	-44	47	8	-21
1963	-40	-48	12	-53	-35	13	-74	-56	-46	-46	50	-4	-26
1964	-42	-51	0	-58	-41	-6	-75	-53	-52	-51	26	-18	-36
1965	-49	-58	-1	-52	-30	0	-73	-55	-49	-42	22	-11	-33
1966	-50	-65	8	-61	-25	-1	-73	-59	-53	-40	40	14	-33
1967	-38	-66	-24	-50	-48	-32	-76	-65	-51	-30	41	-7	-40
1968	-33	-60	-17	-36	-56	-22	-68	-69	-50	-39	49	39	-37
1969	-53	-59	-25	-59	-52	-26	-69	-70	-57	-50	54	-32	-42
1970	-62	-69	-23	-59	-47	-27	-40	-60	-69	-46	89	-16	-47
1971	-51	-53	1	-63	-57	-39	-63	-67	-62	-62	90	-39	-46
1972	-49	1	1	-54	-55	-48	-56	-64	-59	-54	59	-29	-43
1973	-71	-28	2	-60	-57	-48	-28	-64	-63	-57	33	-43	-51
1974	-66	-23	-32	-63	-76	-44	-19	-72	-71	-53	-46	-51	-55
1975	-26	5	-26	-58	-42	-24	-29	-67	-55	-52	-51	-21	-40
1976	-43	22	-16	-50	-54	42	-19	-63	-40	-43	-5	-11	-27
1977	-50	19	-7	-64	-53	56	-24	-68	-63	-23	65	8	-28
1978	-25	48	8	-60	-45	44	0	-68	-43	-29	84	86	-19
1979	-16	54	4	-63	-43	14	-21	-73	-49	-52	40	-9	-28
1980	-19	-18	6	-61	-63	-20	-11	-64	-45	-65	-51	-15	-36
1981	-13	48	29	-62	-59	-13	46	-59	-22	-31	-33	-23	-21
1982	-38	32	17	-39	-52	-41	-28	-59	-45	-61	-37	27	-40
1983	-55	-2	-15	-53	-69	-8	-17	-51	-43	-37	-30	-12	-38
1984	-39	-56	-26	-62	-62	65	-21	-64	-57	-49	-28	-11	-30
1985	-63	-30	-25	-51	-66	116	-20	-29	-64	-25	-20	28	-28
1986	-67	-57	23	-42	-80	54	-59	-63	-61	-52	-42	-13	-43
1987	-61	-84	27	-22	-67	91	42	-57	-71	-45	-5	4	-42
1988	-55	-81	-17	-18	-51	92	63	-39	-57	-37	2	47	-30
1989	-64	-94	-12	-34	-69	43	13	-54	-59	41	-16	92	-51
1990	-48	-75	-3	8	-49	18	31	-58	-67	95	93	153	-25
1991	-74	-79	-34	-17	-78	-39	332	-2	-69	390	-6	291	-34
1992	-88	-85	-52	-64	-85	-68	-27	-61	-83	-34	-69	-65	-76
1993	-79	-93	-44	-48	-29	-71	1	-66	-72	-60	-69	-75	-75
1994	-84	-95	-26	-61	-45	-5	44	-54	-72	-13	-50	-9	-60
1995	-43	4	0	-33	-36	-28	81	-30	-73	-21	-42	-49	-38
1996	-67	-48	-5	-71	-70	-34	90	-63	-80	-52	-66	-31	-52
1997	-60	67	-9	-45	-50	-19	-29	-59	-47	-2	18	-24	-31
1998	-47	29	-18	-55	-70	39	-35	-47	-52	-29	-47	0	-22
1999	2	66	-20	-58	-73	33	-63	-50	-37	0	15	5	-3
2000	-49	76	-10	-18	-73	60	-6	-55	-34	51	104	44	-7
2001	-67	56	22	-38	-67	30	3	-53	-44	-4	83	30	-33
2002	-19	66	46	-26	-56	9	-11	-53	-39	-31	164	21	-10
2003	-50	62	11	-31	-60	44	6	-32	-31	-45	136	21	-15
2004	-40	178	15	-32	-80	3	10	2	24	-26	116	-5	-9

Table 16 (continued): Annual distortion estimates, **Sudan**, 1955 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	NRA	RRA
	Inputs	Outputs							
1955	0	-18	1	-13	-18	-15	na	1	na
1956	0	-13	1	-9	-15	-2	na	1	na
1957	0	-12	1	-9	-19	35	na	1	na
1958	0	-17	1	-12	-31	67	na	2	na
1959	0	-20	1	-15	-27	14	na	1	na
1960	0	-22	1	-17	-33	31	na	1	na
1961	0	-22	1	-17	-34	33	-21	0	-21
1962	0	-21	1	-17	-29	25	-21	-3	-18
1963	0	-26	1	-21	-35	14	-25	-3	-23
1964	0	-36	0	-31	-45	-5	-36	-6	-32
1965	0	-33	1	-27	-41	1	-32	-2	-31
1966	0	-33	1	-28	-41	1	-32	-7	-27
1967	0	-40	0	-35	-44	-25	-39	-7	-35
1968	0	-37	1	-32	-42	-11	-36	-4	-33
1969	0	-42	0	-37	-48	-18	-42	-8	-37
1970	0	-47	0	-43	-51	-20	-47	-8	-42
1971	0	-46	0	-42	-49	-31	-46	-2	-45
1972	0	-43	1	-38	-43	-39	-42	-1	-41
1973	0	-51	0	-46	-54	-40	-51	-7	-47
1974	0	-55	0	-49	-58	-44	-55	-5	-52
1975	0	-40	0	-35	-43	-27	-40	-8	-34
1976	0	-27	0	-23	-37	30	-26	-7	-21
1977	0	-28	0	-24	-42	52	-28	-15	-15
1978	0	-19	1	-15	-31	49	-18	3	-21
1979	0	-28	0	-25	-35	16	-28	-7	-22
1980	0	-36	0	-32	-38	-25	-36	0	-36
1981	0	-21	1	-18	-22	-16	-21	17	-32
1982	0	-40	1	-36	-40	-38	-39	0	-39
1983	0	-38	1	-34	-44	-11	-37	-1	-36
1984	0	-30	0	-27	-47	46	-30	-7	-24
1985	0	-28	1	-25	-52	96	-28	6	-32
1986	0	-43	0	-39	-58	39	-42	-5	-39
1987	0	-42	0	-38	-59	75	-41	-9	-36
1988	0	-30	1	-27	-56	78	-30	-10	-22
1989	0	-51	-1	-47	-64	37	-51	-25	-35
1990	0	-25	0	-21	-46	32	-25	-14	-14
1991	0	-34	0	-26	-47	12	-33	68	-60
1992	0	-76	1	-69	-78	-67	-75	0	-75
1993	0	-75	1	-69	-75	-70	-74	-15	-70
1994	0	-60	0	-53	-76	-9	-60	-4	-58
1995	0	-38	1	-32	-41	-30	-37	9	-42
1996	0	-52	1	-44	-62	-36	-52	3	-53
1997	0	-31	1	-25	-38	-16	-30	13	-38
1998	0	-22	1	-19	-43	20	-22	11	-30
1999	0	-3	1	-3	-22	30	-3	8	-10
2000	0	-7	1	-6	-33	62	-7	6	-12
2001	0	-33	1	-26	-53	33	-32	8	-37
2002	0	-10	1	-8	-25	19	-9	4	-13
2003	0	-15	1	-12	-39	51	-14	3	-17
2004	0	-9	1	-8	-18	12	-9	0	-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 16 (continued): Annual distortion estimates, **Sudan**, 1955 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Beef	Cam el	Cott on	Grou ndnu t	Gum arabi c	Milk	Mill et	Sesa me	Shee pme at	Sorg hum	Suga r	Whe at	All cove red
1955	5	6	18	1	3	12	6	4	6	10	na	0	28
1956	6	5	20	1	2	14	6	7	6	7	na	0	27
1957	7	5	23	3	2	10	3	6	6	11	na	0	23
1958	11	3	7	3	2	11	4	6	10	17	na	0	26
1959	7	5	13	3	2	15	4	4	9	16	na	0	22
1960	9	4	16	4	3	13	4	6	9	11	na	0	21
1961	11	5	14	4	2	14	3	5	9	11	0	0	23
1962	8	4	20	2	2	12	2	8	8	13	0	0	20
1963	11	5	14	4	2	15	4	5	9	12	0	0	19
1964	11	5	9	5	1	18	5	5	9	15	0	0	16
1965	13	6	12	4	1	17	5	5	9	10	0	1	17
1966	14	7	13	5	2	17	3	5	10	11	1	0	13
1967	12	7	15	4	2	17	3	5	10	8	1	1	13
1968	12	7	13	3	3	13	4	5	11	12	2	1	14
1969	17	6	20	3	2	13	3	3	12	5	2	2	11
1970	16	7	15	6	1	11	5	5	11	13	1	1	9
1971	15	5	13	4	2	13	5	7	10	13	1	2	10
1972	17	3	12	4	1	17	5	7	11	10	1	1	10
1973	24	3	9	6	1	15	2	6	13	7	1	1	11
1974	18	3	10	8	2	13	2	6	12	11	3	2	12
1975	14	3	9	12	2	12	2	6	11	11	3	2	12
1976	17	3	14	8	2	10	2	6	9	12	2	2	14
1977	16	2	8	9	1	10	2	5	13	15	1	1	15
1978	16	2	9	11	1	11	2	6	13	10	1	1	18
1979	20	3	6	9	1	11	4	6	14	13	1	1	13
1980	20	4	5	8	1	13	2	5	15	12	3	1	11
1981	21	3	3	11	1	11	3	5	15	13	2	1	12
1982	18	3	4	4	1	15	4	4	13	21	2	0	11
1983	31	3	5	4	1	15	1	2	15	9	2	1	10
1984	19	7	7	6	1	13	3	5	15	10	3	1	11
1985	36	5	7	4	0	13	1	3	15	5	2	0	9
1986	31	6	2	3	1	12	3	3	10	16	2	1	9
1987	27	16	3	2	2	10	1	3	15	10	2	0	8
1988	30	17	3	2	1	14	1	3	13	3	2	1	10
1989	25	32	3	2	1	10	1	2	9	6	2	0	8
1990	22	11	3	1	1	19	1	4	14	3	2	1	18
1991	31	9	1	2	0	12	0	2	11	2	3	2	23
1992	39	4	1	1	0	20	1	1	12	8	3	2	8
1993	31	13	0	2	0	18	1	2	16	6	2	1	7
1994	33	12	1	2	1	19	0	1	13	4	2	1	11
1995	18	1	2	4	1	25	2	2	19	5	2	2	16
1996	17	1	2	5	1	30	1	5	13	6	3	2	15
1997	16	1	2	4	0	27	2	5	13	10	2	2	17
1998	21	1	1	6	0	22	2	3	14	7	6	2	15
1999	16	1	1	4	0	27	4	4	15	8	3	1	15
2000	32	1	1	6	0	21	1	4	12	3	2	0	16
2001	40	1	1	3	0	18	1	2	10	4	1	0	19
2002	21	1	1	4	0	28	2	2	16	8	2	0	16
2003	33	1	1	2	0	20	1	1	17	5	2	1	16
2004	30	1	1	3	0	23	1	2	11	8	2	1	16

a. At farmgate undistorted prices

Table 16 (continued): Annual distortion estimates, **Sudan**, 1955 to 2004  
(d) Trade status<sup>a</sup> for covered products

	Beef	Cam el	Cott on	Grou ndnu t	Gum arabi c	Milk	Mill et	Sesa me	Shee pme at	Sorg hum	Suga r	Whe at
1955	X	X	X	X	X	M	X	X	X	X	M	M
1956	X	X	X	X	X	M	X	X	X	X	M	M
1957	X	X	X	X	X	M	X	X	X	X	M	M
1958	X	X	X	X	X	M	X	X	X	X	M	M
1959	X	X	X	X	X	M	X	X	X	X	M	M
1960	X	X	X	X	X	M	X	X	X	X	M	M
1961	X	X	X	X	X	M	X	X	X	X	M	M
1962	X	X	X	X	X	M	X	X	X	X	M	M
1963	X	X	X	X	X	M	X	X	X	X	M	M
1964	X	X	X	X	X	M	X	X	X	X	M	M
1965	X	X	X	X	X	M	X	X	X	X	M	M
1966	X	X	X	X	X	M	X	X	X	X	M	M
1967	X	X	X	X	X	M	X	X	X	X	M	M
1968	X	X	X	X	X	M	X	X	X	X	M	M
1969	X	X	X	X	X	M	X	X	X	X	M	M
1970	X	X	X	X	X	M	X	X	X	X	M	M
1971	X	X	X	X	X	M	X	X	X	X	M	M
1972	X	X	X	X	X	M	X	X	X	X	M	M
1973	X	X	X	X	X	M	X	X	X	X	M	M
1974	X	X	X	X	X	M	X	X	X	X	M	M
1975	X	X	X	X	X	M	X	X	X	X	M	M
1976	X	X	X	X	X	M	X	X	X	X	M	M
1977	X	X	X	X	X	M	X	X	X	X	M	M
1978	X	X	X	X	X	M	X	X	X	X	M	M
1979	X	X	X	X	X	M	X	X	X	X	M	M
1980	X	X	X	X	X	M	X	X	X	X	M	M
1981	X	X	X	X	X	M	X	X	X	X	M	M
1982	X	X	X	X	X	M	X	X	X	X	M	M
1983	X	X	X	X	X	M	X	X	X	X	M	M
1984	X	X	X	X	X	M	X	X	X	X	M	M
1985	X	X	X	X	X	M	X	X	X	X	M	M
1986	X	X	X	X	X	M	X	X	X	X	M	M
1987	X	X	X	X	X	M	X	X	X	X	M	M
1988	X	X	X	X	X	M	X	X	X	X	M	M
1989	X	X	X	X	X	M	X	X	X	X	M	M
1990	X	X	X	X	X	M	X	X	X	X	M	M
1991	X	X	X	X	X	M	X	X	X	X	M	M
1992	X	X	X	X	X	M	X	X	X	X	M	M
1993	X	X	X	X	X	M	X	X	X	X	M	M
1994	X	X	X	X	X	M	X	X	X	X	M	M
1995	X	X	X	X	X	M	X	X	X	X	M	M
1996	X	X	X	X	X	M	X	X	X	X	M	M
1997	X	X	X	X	X	M	X	X	X	X	M	M
1998	X	X	X	X	X	M	X	X	X	X	M	M
1999	X	X	X	X	X	M	X	X	X	X	M	M
2000	X	X	X	X	X	M	X	X	X	X	M	M
2001	X	X	X	X	X	M	X	X	X	X	M	M
2002	X	X	X	X	X	M	X	X	X	X	M	M
2003	X	X	X	X	X	M	X	X	X	X	M	M
2004	X	X	X	X	X	M	X	X	X	X	M	M

Sources: Faki and Taha (2007)

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

Table 17: Annual distortion estimates, **Tanzania**, 1976 to 2004(a) Nominal rates of assistance to covered products  
(percent)

	Bean	Cashe w	Cassav a	Coffee	Cotton	Maize	Millet	Plantai n	Potato	Pyrethr um
1976	-84	-65	0	-68	-88	-24	0	0	0	-87
1977	-79	-62	0	-72	-87	-51	0	0	0	-92
1978	-76	-69	0	-63	-75	-55	0	0	0	-76
1979	-67	-69	0	-74	-82	-76	0	0	0	-74
1980	-83	-86	0	-81	-88	-57	0	0	0	-80
1981	-69	-85	0	-67	-87	-57	0	0	0	-69
1982	-55	-49	0	-68	-85	-35	0	0	0	-62
1983	-86	-70	0	-78	-88	-54	0	0	0	-70
1984	-88	-68	0	-77	-90	-56	0	0	0	-77
1985	-83	-46	0	-74	-83	68	0	0	0	-71
1986	-87	-81	0	-83	-80	-13	0	0	0	-85
1987	-82	-82	0	-79	-82	-4	0	0	0	-77
1988	-81	-75	0	-81	-89	-17	0	0	0	-80
1989	-77	-61	0	-70	-87	-21	0	0	0	-55
1990	-79	-49	0	-54	-91	-42	0	0	0	-17
1991	-62	-43	0	-51	-87	-41	0	0	0	-17
1992	-43	-35	0	-42	-78	68	0	0	0	-25
1993	-4	-32	0	-50	-84	30	0	0	0	-52
1994	-35	-36	0	-23	-87	54	0	0	0	-74
1995	-43	-10	0	0	-84	-29	0	0	0	-68
1996	-33	0	0	0	-68	-3	0	0	0	-67
1997	-45	-18	0	0	-78	2	0	0	0	-71
1998	-64	-5	0	0	-71	-39	0	0	0	-72
1999	-55	-7	0	0	-63	-71	0	0	0	-61
2000	-42	0	0	0	-81	-39	0	0	0	-49
2001	-24	2	0	0	-66	-42	0	0	0	-43
2002	-38	-24	0	0	-69	16	0	0	0	-41
2003	-56	-7	0	0	-74	47	0	0	0	-48
2004	-65	-19	0	0	-61	12	0	0	0	-57

Continued over

Table 17(a) (cont)

	Rice	Sisal	Sorghu m	Sugar	Tea	Tobacco	Wheat	Yam	All covered
1976	-67	na	0	-40	-95	-70	-60	0	-52
1977	-53	na	0	9	-95	na	-15	0	-54
1978	-41	na	0	2	-86	-60	-12	0	-44
1979	-42	-39	0	-6	-86	-63	-39	0	-51
1980	-71	-37	0	-74	-94	-62	-67	0	-60
1981	-67	-20	0	-77	-92	-59	-58	0	-59
1982	-50	-31	0	-55	-94	-66	-37	0	-50
1983	-67	-55	0	-47	-94	-69	-58	0	-67
1984	-66	-60	0	-36	-96	-74	-54	0	-66
1985	-35	-49	0	39	-92	-64	-24	0	-41
1986	-31	-27	0	-22	-95	-67	-39	0	-58
1987	-44	-49	0	-6	-93	-64	-44	0	-53
1988	-37	-25	0	-42	-94	-68	-66	0	-56
1989	-52	5	0	-43	-93	-62	-63	0	-51
1990	-60	-4	0	-29	-94	-75	-68	0	-57
1991	-51	-12	0	13	-90	-77	-27	0	-49
1992	15	-23	0	26	-87	-55	18	0	-22
1993	55	9	0	73	-88	-34	148	0	-9
1994	51	-36	0	31	-89	-41	152	0	-12
1995	na	-3	0	9	-88	-41	46	0	-30
1996	65	0	0	66	-91	-33	43	0	-18
1997	56	0	0	100	-92	-28	208	0	-19
1998	11	0	0	3	-94	-32	71	0	-36
1999	-32	0	0	21	-89	-51	14	0	-43
2000	-4	0	0	72	-93	-45	121	0	-23
2001	32	0	0	96	-91	-50	138	0	-18
2002	38	0	0	96	-90	-61	107	0	-11
2003	25	0	0	137	-90	-59	61	0	-8
2004	-10	0	0	115	-91	-61	51	0	-23



Table 17 (continued): Annual distortion estimates, **Tanzania**, 1976 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 NRA	
	Covered products		Non-covered products	All products (incl NPS)	Exportables	Import-competing	All	s NRA	RRA
	Inputs	Outputs							
1976	0	-52	-2	-36	-65	-19	-50	41	-65
1977	0	-54	-1	-45	-73	-35	-61	36	-72
1978	0	-44	-1	-40	-69	-42	-60	32	-70
1979	0	-51	-1	-46	-67	-65	-66	33	-75
1980	0	-60	-3	-57	-80	-56	-74	69	-84
1981	0	-59	-3	-52	-70	-52	-63	68	-78
1982	0	-50	-3	-46	-70	-35	-57	68	-75
1983	0	-67	-4	-64	-82	-54	-73	72	-84
1984	0	-66	-4	-63	-84	-54	-74	72	-85
1985	0	-41	-3	-35	-73	26	-45	47	-62
1986	0	-58	-3	-51	-79	-13	-61	46	-73
1987	0	-53	-2	-47	-76	-17	-57	40	-69
1988	0	-56	-1	-50	-78	-23	-59	37	-70
1989	0	-51	0	-44	-71	-32	-55	28	-65
1990	0	-57	-1	-50	-74	-40	-62	20	-68
1991	0	-49	-1	-44	-68	-35	-55	21	-63
1992	0	-22	0	-17	-55	34	-22	18	-34
1993	0	-9	0	-6	-42	32	-9	12	-19
1994	0	-12	0	-9	-46	38	-13	12	-22
1995	0	-30	0	-24	-45	-17	-35	11	-42
1996	0	-18	0	-14	-39	13	-19	11	-27
1997	0	-19	0	-15	-44	13	-20	12	-28
1998	0	-36	0	-29	-51	-17	-38	13	-45
1999	0	-43	0	-35	-40	-52	-46	13	-52
2000	0	-23	0	-17	-35	-17	-28	11	-35
2001	0	-18	0	-15	-28	-19	-23	10	-30
2002	0	-11	0	-8	-32	13	-13	10	-21
2003	0	-8	0	-6	-39	28	-10	10	-18
2004	0	-23	0	-17	-48	7	-27	10	-33

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 17 (continued): Annual distortion estimates, **Tanzania**, 1976 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Bean	Cashe w	Cassav a	Coffee	Cotton	Maize	Millet	Plantai n	Potato	Pyrethr um
1976	4	1	9	7	15	7	1	1	2	0
1977	9	1	13	13	13	14	1	1	2	1
1978	20	1	15	6	7	14	4	1	3	0
1979	11	1	15	6	10	26	4	1	3	0
1980	17	2	10	11	13	13	2	1	3	0
1981	12	3	4	8	13	18	1	1	3	0
1982	9	1	5	10	14	19	1	3	5	0
1983	19	2	3	9	15	18	1	1	3	0
1984	19	1	3	8	15	17	1	5	2	0
1985	21	1	5	9	9	10	1	5	2	0
1986	20	1	3	13	13	13	1	4	2	0
1987	16	2	4	7	18	12	1	5	2	0
1988	15	1	3	9	18	14	1	5	2	0
1989	17	1	4	7	10	13	1	5	2	0
1990	12	2	3	5	17	16	1	6	2	0
1991	9	3	4	5	14	17	1	8	2	0
1992	9	1	0	3	18	11	4	4	1	0
1993	8	2	6	3	9	14	5	4	1	0
1994	10	2	5	5	9	11	3	3	1	0
1995	9	2	5	7	15	15	4	2	1	0
1996	10	2	5	4	13	13	3	4	1	0
1997	12	2	5	2	10	19	2	3	1	0
1998	21	2	6	3	4	17	2	3	1	0
1999	16	3	5	3	2	27	2	4	1	0
2000	13	4	5	4	4	13	2	13	1	0
2001	9	1	10	3	3	22	1	10	3	0
2002	6	2	10	5	4	11	0	18	1	0
2003	11	1	11	2	3	12	0	12	3	0
2004	18	1	9	1	3	11	1	9	2	0

Continued over ...

Table 17(c) (cont)

	Rice	Sisal	Sorghu m	Sugar	Tea	Tobacco	Wheat	Yam	Non- covered
1976	5	na	1	1	6	2	1	4	33
1977	3	na	2	0	8	na	0	3	17
1978	4	na	2	0	5	2	1	6	9
1979	2	2	1	0	4	2	1	2	9
1980	5	2	1	1	6	1	1	3	5
1981	7	2	1	3	6	1	1	4	12
1982	6	2	1	2	9	2	1	2	7
1983	8	1	1	1	8	2	1	1	5
1984	8	1	2	1	9	1	1	1	5
1985	6	1	2	0	7	1	1	1	18
1986	6	1	1	0	6	2	1	1	12
1987	10	1	2	0	6	1	1	1	12
1988	10	1	1	0	6	1	1	1	12
1989	13	1	2	1	7	1	1	2	13
1990	7	1	2	1	9	2	1	1	13
1991	7	1	2	1	9	4	1	1	12
1992	8	0	7	1	6	2	1	1	23
1993	7	0	6	1	6	2	1	1	25
1994	7	1	10	1	6	0	0	1	25
1995	na	0	13	1	3	2	1	1	20
1996	5	1	8	1	5	0	1	1	23
1997	4	0	5	0	5	3	0	2	24
1998	6	0	5	1	7	2	1	1	19
1999	6	1	5	1	3	1	0	1	19
2000	2	0	6	0	4	1	0	2	24
2001	6	0	5	0	3	1	0	2	19
2002	2	0	3	1	5	2	0	1	30
2003	4	1	4	0	3	2	0	2	30
2004	4	1	4	1	4	2	0	2	26

a. At farmgate undistorted prices

Table 17 (continued): Annual distortion estimates, **Tanzania**, 1976 to 2004  
(d) Trade status<sup>a</sup> for covered products

	Bean	Cashe w	Cassav a	Coffee	Cotton	Maize	Millet	Plantai n	Potato	Pyrethr um
1976	X	X	H	X	X	M	H	H	H	X
1977	X	X	H	X	X	M	H	H	H	X
1978	X	X	H	X	X	M	H	H	H	X
1979	X	X	H	X	X	M	H	H	H	X
1980	X	X	H	X	X	M	H	H	H	X
1981	X	X	H	X	X	M	H	H	H	X
1982	X	X	H	X	X	M	H	H	H	X
1983	X	X	H	X	X	M	H	H	H	X
1984	X	X	H	X	X	M	H	H	H	X
1985	X	X	H	X	X	M	H	H	H	X
1986	X	X	H	X	X	M	H	H	H	X
1987	X	X	H	X	X	M	H	H	H	X
1988	X	X	H	X	X	M	H	H	H	X
1989	X	X	H	X	X	M	H	H	H	X
1990	X	X	H	X	X	M	H	H	H	X
1991	X	X	H	X	X	M	H	H	H	X
1992	X	X	H	X	X	M	H	H	H	X
1993	X	X	H	X	X	M	H	H	H	X
1994	X	X	H	X	X	M	H	H	H	X
1995	X	X	H	X	X	M	H	H	H	X
1996	X	X	H	X	X	M	H	H	H	X
1997	X	X	H	X	X	M	H	H	H	X
1998	X	X	H	X	X	M	H	H	H	X
1999	X	X	H	X	X	M	H	H	H	X
2000	X	X	H	X	X	M	H	H	H	X
2001	X	X	H	X	X	M	H	H	H	X
2002	X	X	H	X	X	M	H	H	H	X
2003	X	X	H	X	X	M	H	H	H	X
2004	X	X	H	X	X	M	H	H	H	X

Continued over ...

Table 17(d) (cont)

	Rice	Sisal	Sorghu m	Sugar	Tea	Tobacco	Wheat	Yam
1976	M	na	H	M	X	X	M	H
1977	M	na	H	M	X	0	M	H
1978	M	na	H	M	X	X	M	H
1979	M	X	H	M	X	X	M	H
1980	M	X	H	M	X	X	M	H
1981	M	X	H	M	X	X	M	H
1982	M	X	H	M	X	X	M	H
1983	M	X	H	M	X	X	M	H
1984	M	X	H	M	X	X	M	H
1985	M	X	H	M	X	X	M	H
1986	M	X	H	M	X	X	M	H
1987	M	X	H	M	X	X	M	H
1988	M	X	H	M	X	X	M	H
1989	M	X	H	M	X	X	M	H
1990	M	X	H	M	X	X	M	H
1991	M	X	H	M	X	X	M	H
1992	M	X	H	M	X	X	M	H
1993	M	X	H	M	X	X	M	H
1994	M	X	H	M	X	X	M	H
1995	0	X	H	M	X	X	M	H
1996	M	X	H	M	X	X	M	H
1997	M	X	H	M	X	X	M	H
1998	M	X	H	M	X	X	M	H
1999	M	X	H	M	X	X	M	H
2000	M	X	H	M	X	X	M	H
2001	M	X	H	M	X	X	M	H
2002	M	X	H	M	X	X	M	H
2003	M	X	H	M	X	X	M	H
2004	M	X	H	M	X	X	M	H

Sources: Morrissey and Leyaro (2007)

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

Table 18: Annual distortion estimates, **Togo**, 1970 to 2005(a) Nominal rates of assistance to covered products  
(percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	0	-28	0	na	0	0
1971	0	-42	0	na	0	0
1972	0	-43	0	na	0	0
1973	0	-65	0	na	0	-1
1974	0	-34	0	na	0	-1
1975	0	-42	0	na	0	-1
1976	0	-65	0	na	0	-1
1977	0	-38	0	na	0	0
1978	0	-46	0	0	0	-1
1979	0	-44	0	0	0	-1
1980	0	-53	0	0	0	-1
1981	0	-48	0	0	0	-1
1982	0	-63	0	0	0	-2
1983	0	-70	0	0	0	-3
1984	0	-57	0	0	0	-4
1985	0	-2	0	0	0	0
1986	0	-8	0	0	0	0
1987	0	-21	0	0	0	-2
1988	0	-22	0	0	0	-2
1989	0	-44	0	0	0	-4
1990	0	-31	0	0	0	-3
1991	0	-12	0	0	0	-1
1992	0	6	0	0	0	0
1993	0	-19	0	0	0	-1
1994	0	-59	0	0	0	-15
1995	0	-41	0	0	0	-5
1996	0	-35	0	0	0	-5
1997	0	-29	0	0	0	-4
1998	0	-8	0	0	0	-1
1999	0	-2	0	0	0	0
2000	0	-24	0	0	0	-3
2001	0	7	0	0	0	1
2002	0	-19	0	0	0	-2
2003	0	-28	0	0	0	-3
2004	0	6	0	0	0	0
2005	0	-5	0	0	0	0

Table 18 (continued): Annual distortion estimates, **Togo**, 1970 to 2005  
 (b) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
 (percent)

	Cassava	Cotton	Millet	Sorghum	Yam	All covered
1970	21	0	11	na	17	51
1971	20	0	12	na	17	51
1972	14	0	14	na	22	50
1973	14	1	13	na	28	44
1974	10	1	10	na	33	45
1975	12	1	10	na	29	48
1976	14	1	13	na	27	44
1977	14	0	11	na	30	45
1978	13	1	3	5	36	42
1979	10	1	4	6	34	44
1980	11	1	4	8	30	45
1981	14	1	3	6	37	39
1982	12	2	3	7	34	42
1983	11	2	3	8	30	46
1984	14	4	6	9	23	45
1985	14	3	5	6	24	48
1986	11	3	4	9	23	50
1987	10	4	4	6	21	55
1988	8	3	4	9	19	57
1989	9	4	5	8	21	52
1990	11	5	3	6	22	54
1991	13	4	3	9	23	48
1992	11	3	6	9	21	51
1993	10	4	4	7	28	48
1994	10	12	2	5	18	53
1995	11	6	5	11	19	49
1996	8	6	3	9	21	52
1997	11	7	2	7	24	49
1998	13	6	2	7	26	45
1999	13	4	2	8	24	48
2000	14	6	1	7	23	49
2001	14	5	2	7	22	50
2002	14	5	3	9	21	48
2003	14	6	2	8	22	49
2004	12	4	2	10	23	48
2005	13	2	2	12	22	49

a. At farmgate undistorted prices

Table 18 (continued): Annual distortion estimates, **Togo**, 1970 to 2005  
(c) Trade status<sup>a</sup> of covered products

	Cassava	Cotton	Millet	Sorghum	Yam
1970	H	X	H	H	H
1971	H	X	H	H	H
1972	H	X	H	H	H
1973	H	X	H	H	H
1974	H	X	H	H	H
1975	H	X	H	H	H
1976	H	X	H	H	H
1977	H	X	H	H	H
1978	H	X	H	H	H
1979	H	X	H	H	H
1980	H	X	H	H	H
1981	H	X	H	H	H
1982	H	X	H	H	H
1983	H	X	H	H	H
1984	H	X	H	H	H
1985	H	X	H	H	H
1986	H	X	H	H	H
1987	H	X	H	H	H
1988	H	X	H	H	H
1989	H	X	H	H	H
1990	H	X	H	H	H
1991	H	X	H	H	H
1992	H	X	H	H	H
1993	H	X	H	H	H
1994	H	X	H	H	H
1995	H	X	H	H	H
1996	H	X	H	H	H
1997	H	X	H	H	H
1998	H	X	H	H	H
1999	H	X	H	H	H
2000	H	X	H	H	H
2001	H	X	H	H	H
2002	H	X	H	H	H
2003	H	X	H	H	H
2004	H	X	H	H	H
2005	H	X	H	H	H

*Sources:* Baffes (2007)

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



Table 19: Annual distortion estimates, **Uganda**, 1961 to 2004(a) Nominal rates of assistance to covered products  
(percent)

	Bea n	Cas sava	Coff ee	Cott on	Gro und nut	Mai ze	Mill et	Plan tain	Rice	Sor ghu m	Sug ar	Tea	Ya m	All cov ered
1961	-1	0	-4	-11	0	-1	0	0	12	0	-1	-1	0	-2
1962	26	0	-6	-16	0	-1	0	0	14	0	-1	-1	0	-1
1963	0	0	-14	-13	0	-1	0	0	14	0	-1	-1	0	-3
1964	-2	0	-21	-14	0	-2	0	0	15	0	-2	-2	0	-5
1965	28	0	-18	-11	0	0	0	0	15	0	0	0	0	-2
1966	-2	0	-15	-14	0	-2	0	0	16	0	-2	-2	0	-4
1967	-10	0	-26	-22	0	0	0	0	23	0	-10	-10	0	-7
1968	-9	0	-24	-22	0	0	0	0	22	0	-9	-9	0	-6
1969	0	0	-26	-25	0	19	0	0	24	0	-12	-12	0	-7
1970	-16	0	-32	-25	0	22	0	0	26	0	-16	-16	0	-6
1971	0	0	-38	-29	0	0	0	0	29	0	29	-20	0	-5
1972	0	0	-45	-34	0	0	0	0	35	0	34	-28	0	-8
1973	0	0	-62	-53	0	53	0	0	54	0	54	-50	0	-14
1974	0	0	-78	-71	0	0	0	0	70	0	0	-68	0	-25
1975	0	0	-84	-78	0	0	0	0	77	0	0	-75	0	-25
1976	0	0	-93	-81	0	0	0	0	83	0	-79	-79	0	-26
1977	0	0	-94	-76	0	0	0	0	0	0	76	-73	0	-25
1978	0	0	-95	-84	0	0	0	0	0	0	0	-82	0	-33
1979	0	0	-87	-79	0	0	0	0	80	0	80	-79	0	-13
1980	0	0	-87	-82	0	83	0	0	83	0	83	-82	0	-9
1981	0	0	-69	-60	0	61	0	0	62	0	62	-60	0	-4
1982	0	0	-68	-51	0	53	0	0	54	0	0	-51	0	-15
1983	0	0	-70	-41	0	-41	0	0	44	0	0	-41	0	-15
1984	0	0	-64	-27	0	-27	0	0	29	0	29	-27	0	-14
1985	0	0	-71	-56	0	-49	0	0	51	0	51	-49	0	-15
1986	0	0	-75	-71	0	0	0	0	67	0	67	-66	0	-23
1987	0	0	-72	-61	0	0	0	0	62	0	62	61	0	-15
1988	0	0	-68	-60	0	0	0	0	0	0	62	60	0	-9
1989	0	0	-53	-44	0	-44	0	0	47	0	47	44	0	-8
1990	0	0	-36	-20	0	-20	0	0	0	0	25	20	0	-2
1991	-12	0	-20	-12	0	-12	0	0	0	0	17	12	0	-2
1992	-4	0	-5	-4	0	-4	0	0	0	0	11	4	0	-1
1993	-1	0	-1	-1	0	-1	0	0	10	0	9	1	0	0
1994	-1	0	-3	-1	0	-1	0	0	12	0	12	1	0	0
1995	0	-1	-4	0	-1	0	-1	-1	13	-1	13	0	-1	0
1996	0	0	-3	0	0	0	0	0	13	0	14	0	0	0
1997	0	0	-1	0	0	10	0	0	12	0	15	0	0	1
1998	20	0	-1	0	0	11	0	0	14	0	18	0	0	1
1999	0	0	-1	0	0	12	0	0	14	0	19	0	0	1
2000	0	0	-1	0	0	0	0	0	14	0	20	0	0	0
2001	0	0	-1	0	0	0	0	0	19	0	17	0	0	1
2002	0	0	-1	0	0	0	0	0	17	0	16	0	0	1
2003	0	0	-1	0	0	0	0	0	19	0	16	0	0	0
2004	0	0	-1	0	0	0	0	0	18	0	15	0	0	1

Table 19 (continued): Annual distortion estimates, **Uganda**, 1961 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 NRA	
	Covered products		Non-covered products	All products (incl NPS)	Exportables	Import-competing	All	s NRA	RRA
	Inputs	Outputs							
1961	0	-2	4	-1	-5	12	-2	10	-11
1962	0	-1	5	0	-6	18	-1	12	-12
1963	0	-3	4	-2	-10	14	-6	8	-13
1964	0	-5	5	-4	-13	17	-10	8	-16
1965	0	-2	5	-1	-11	19	-5	13	-15
1966	0	-4	6	-2	-10	16	-6	12	-16
1967	0	-7	8	-4	-19	23	-12	23	-28
1968	0	-6	8	-3	-17	23	-10	24	-27
1969	0	-7	10	-4	-18	23	-11	26	-29
1970	0	-6	10	-4	-21	26	-12	26	-30
1971	0	-5	9	-3	-33	29	-15	30	-34
1972	0	-8	13	-6	-40	33	-20	33	-40
1973	0	-14	24	-8	-48	53	-24	36	-44
1974	0	-25	29	-18	-76	70	-50	50	-67
1975	0	-25	32	-18	-83	77	-52	51	-68
1976	0	-26	na	na	-91	84	-61	69	-77
1977	0	-25	na	na	-93	75	-79	73	-88
1978	0	-33	na	na	-95	83	-83	73	-90
1979	0	-13	na	na	-87	80	-77	74	-87
1980	0	-9	na	na	-87	83	-28	80	-60
1981	0	-4	14	1	-68	63	6	56	-32
1982	0	-15	14	-7	-67	55	-23	59	-52
1983	0	-15	10	-9	-61	45	-38	43	-57
1984	0	-14	5	-10	-48	29	-31	29	-47
1985	0	-15	14	-9	-66	50	-34	41	-53
1986	0	-23	24	-12	-75	67	-36	64	-61
1987	0	-15	12	-9	-70	62	-34	60	-59
1988	0	-9	20	-2	-67	63	-12	58	-44
1989	0	-8	14	-2	-46	48	-10	41	-36
1990	0	-2	7	0	-27	26	4	27	-18
1991	0	-2	-1	-2	-14	17	-10	24	-27
1992	0	-1	-1	-1	-4	11	-2	19	-17
1993	0	0	0	0	-1	10	1	17	-14
1994	0	0	0	0	-2	12	0	21	-18
1995	0	0	2	0	-2	13	2	24	-18
1996	0	0	0	0	-2	14	1	29	-21
1997	0	1	0	1	-1	12	5	35	-22
1998	0	1	0	1	-1	15	7	35	-21
1999	0	1	0	1	-1	15	5	33	-21
2000	0	0	0	0	0	8	4	31	-20
2001	0	1	0	0	0	17	4	25	-17
2002	0	1	0	0	0	16	4	25	-17
2003	0	0	0	0	0	17	2	24	-18
2004	0	1	0	0	0	16	na	25	na

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 19 (continued): Annual distortion estimates, **Uganda**, 1961 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Bea n	Cas sava	Coff ee	Cott on	Gro und nut	Mai ze	Mill et	Plan tain	Rice	Sor ghu m	Sug ar	Tea	Ya m	Non - cov ered
1961	2	8	8	9	4	2	9	21	0	5	4	1	8	20
1962	1	9	9	5	4	3	10	21	0	5	5	1	8	19
1963	2	10	12	8	3	2	8	21	0	4	5	1	8	16
1964	2	8	16	8	3	3	9	21	0	3	5	1	8	15
1965	2	12	9	8	4	3	11	21	0	4	4	1	7	14
1966	2	8	10	10	3	2	12	21	0	3	5	1	7	15
1967	3	6	12	7	4	2	9	21	0	4	6	1	8	17
1968	2	5	10	7	4	3	11	21	0	2	6	2	8	18
1969	2	4	15	7	4	3	10	21	0	4	4	2	7	16
1970	3	8	10	6	5	2	13	21	0	6	3	1	8	13
1971	3	17	9	5	5	4	10	21	1	4	2	1	8	12
1972	3	13	12	5	4	3	10	21	0	5	2	2	7	12
1973	2	13	16	6	3	3	8	21	0	4	1	2	7	14
1974	2	11	23	4	2	3	7	21	0	3	1	2	7	14
1975	3	12	21	4	2	3	7	21	0	3	2	1	7	13
1976	3	14	22	2	3	3	8	21	0	4	1	1	6	12
1977	4	17	24	1	4	2	8	21	1	4	1	0	6	9
1978	3	11	30	1	4	2	8	21	1	4	0	0	6	10
1979	5	11	11	0	3	2	10	21	0	5	0	0	6	25
1980	5	15	11	0	2	2	9	21	0	4	1	0	6	24
1981	4	18	6	0	2	1	7	22	0	4	1	0	6	28
1982	3	14	17	0	2	2	5	17	0	3	1	0	5	30
1983	4	13	13	1	2	5	5	26	0	3	1	0	7	20
1984	7	18	14	1	5	8	3	16	0	2	0	0	5	22
1985	3	19	14	2	3	3	4	20	0	2	0	0	7	22
1986	2	11	23	1	2	1	4	25	0	2	0	0	5	24
1987	4	17	16	1	2	2	6	21	0	3	0	0	4	24
1988	4	21	10	1	3	3	6	20	1	3	0	0	6	23
1989	4	20	5	0	3	9	6	20	1	2	1	0	5	24
1990	4	23	3	0	3	3	6	21	2	3	2	0	5	27
1991	5	18	5	0	2	4	6	21	1	3	2	0	5	27
1992	4	23	2	0	2	5	8	19	1	3	2	0	4	26
1993	4	23	3	0	2	4	7	23	2	2	2	0	5	22
1994	4	13	7	0	2	4	5	32	1	2	1	0	8	21
1995	3	10	6	0	2	3	4	48	1	2	1	0	4	15
1996	2	16	10	0	2	6	5	23	2	2	3	0	4	25
1997	3	20	7	0	2	6	4	24	1	2	2	0	7	21
1998	2	28	7	0	2	2	6	23	1	2	2	0	4	21
1999	2	23	6	0	2	2	5	23	1	2	2	0	7	23
2000	2	30	2	0	1	4	4	26	1	2	2	0	6	19
2001	4	32	2	0	2	3	4	20	1	2	2	0	5	23
2002	3	29	2	0	2	4	5	17	1	2	3	0	7	24
2003	3	24	2	0	1	5	4	20	1	2	2	0	7	29
2004	4	28	2	1	2	6	5	20	2	2	2	0	7	20

a. At farmgate undistorted prices

Table 19 (continued): Annual distortion estimates, **Uganda**, 1961 to 2004  
(d) Trade status<sup>a</sup> for covered products

	Bea n	Cas sava	Coff ee	Cott on	Gro und nut	Mai ze	Mill et	Plan tain	Rice	Sor ghu m	Sug ar	Tea	Ya m
1961	X	H	X	X	H	X	H	H	M	H	X	X	H
1962	M	H	X	X	H	X	H	H	M	H	X	X	H
1963	H	H	X	X	H	X	H	H	M	H	X	X	H
1964	X	H	X	X	H	X	H	H	M	H	X	X	H
1965	M	H	X	X	H	H	H	H	M	H	X	X	H
1966	X	H	X	X	H	X	H	H	M	H	X	X	H
1967	X	H	X	X	H	H	H	H	M	H	X	X	H
1968	X	H	X	X	H	H	H	H	M	H	X	X	H
1969	H	H	X	X	H	X	H	H	M	H	X	X	H
1970	X	H	X	X	H	X	H	H	M	H	X	X	H
1971	H	H	X	X	H	H	H	H	M	H	M	X	H
1972	H	H	X	X	H	H	H	H	M	H	M	X	H
1973	H	H	X	X	H	X	H	H	M	H	M	X	H
1974	H	H	X	X	H	H	H	H	M	H	H	X	H
1975	H	H	X	X	H	H	H	H	M	H	H	X	H
1976	H	H	X	X	H	H	H	H	M	H	X	X	H
1977	H	H	X	X	H	H	H	H	H	H	M	X	H
1978	H	H	X	X	H	H	H	H	H	H	H	X	H
1979	H	H	X	X	H	H	H	H	M	H	M	X	H
1980	H	H	X	X	H	M	H	H	M	H	M	X	H
1981	H	H	X	X	H	M	H	H	M	H	M	X	H
1982	H	H	X	X	H	M	H	H	M	H	H	X	H
1983	H	H	X	X	H	X	H	H	M	H	H	X	H
1984	H	H	X	X	H	X	H	H	M	H	M	X	H
1985	H	H	X	X	H	X	H	H	M	H	M	X	H
1986	H	H	X	X	H	H	H	H	M	H	M	X	H
1987	H	H	X	X	H	H	H	H	M	H	M	X	H
1988	H	H	X	X	H	H	H	H	H	H	M	X	H
1989	H	H	X	X	H	X	H	H	M	H	M	X	H
1990	H	H	X	X	H	X	H	H	H	H	M	X	H
1991	X	H	X	X	H	X	H	H	H	H	M	X	H
1992	X	H	X	X	H	X	H	H	H	H	M	X	H
1993	X	H	X	X	H	X	H	H	M	H	M	X	H
1994	X	H	X	X	H	X	H	H	M	H	M	X	H
1995	X	H	X	X	H	X	H	H	M	H	M	X	H
1996	X	H	X	X	H	X	H	H	M	H	M	X	H
1997	X	H	X	X	H	M	H	H	M	H	M	X	H
1998	M	H	X	X	H	M	H	H	M	H	M	X	H
1999	X	H	X	X	H	M	H	H	M	H	M	X	H
2000	X	H	X	X	H	M	H	H	M	H	M	X	H
2001	H	H	X	X	H	X	H	H	M	H	M	X	H
2002	H	H	X	X	H	X	H	H	M	H	M	X	H
2003	X	H	X	X	H	X	H	H	M	H	M	X	H
2004	X	H	X	X	H	X	H	H	M	H	M	X	H

Sources: Matthews, Claquin and Opolot (2007)

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

Table 20: Annual distortion estimates, **Zambia**, 1961 to 2004(a) Nominal rates of assistance to covered products  
(percent)

	Cotton	Groundnut	Maize	Millet	Rice	Sorghum	Soybean	Sunflower	Tobacco r	Tobacco V	Tobacco B	Wheat	All covered
1961	na	na	-22	na	na	na	na	na	na	-10	-34	na	-21
1962	na	na	-32	na	na	na	na	na	na	-14	-2	na	-29
1963	na	na	-44	na	na	na	na	na	na	-7	-23	na	-38
1964	na	na	-9	na	na	na	na	na	na	-5	-9	na	-9
1965	-27	-51	-2	na	na	na	na	na	na	3	-32	na	-11
1966	-39	-41	-20	0	na	-12	na	na	na	-10	-45	-73	-22
1967	-20	-22	-27	0	na	13	na	0	0	-6	-65	-76	-22
1968	-38	-38	-42	0	-24	-30	na	0	0	-40	-48	-76	-38
1969	-33	-55	-77	0	-20	-32	na	0	0	-38	-47	-82	-69
1970	-20	-42	-24	0	-58	-22	na	0	0	-13	-24	-63	-25
1971	-18	-56	-55	0	-64	-21	na	0	0	-25	-34	-71	-50
1972	-45	-67	-42	0	-59	-44	na	0	0	-27	-40	-68	-43
1973	-62	-64	-40	0	-54	-50	-82	0	0	-44	-50	-54	-45
1974	-38	-68	-46	0	-30	-36	-65	0	0	-45	-37	-44	-47
1975	-33	-76	-64	0	-11	-48	-68	0	0	-54	-32	-34	-63
1976	-45	-55	-32	0	-24	-62	12	0	0	-56	-42	-30	-39
1977	-54	-76	-76	0	-22	-73	-72	0	0	-72	-65	-50	-74
1978	-40	-74	-68	0	-20	-72	-66	0	0	-67	-68	-26	-66
1979	-21	-62	-47	0	7	-66	-4	0	0	-38	-42	-1	-45
1980	-40	-79	-51	0	12	-72	-40	0	0	-1	-2	-6	-49
1981	-11	-56	-10	0	3	-55	-28	0	0	-46	-50	22	-13
1982	-34	-58	-4	0	53	-52	-10	0	0	-23	-39	39	-8
1983	-44	-67	-12	0	47	-43	-32	0	0	-11	-34	29	-15
1984	-61	-72	-40	0	35	-64	-58	0	0	-52	-62	-22	-42
1985	-61	-69	-53	0	-7	-64	-45	0	0	-60	-68	-60	-52
1986	-67	-69	-52	0	-33	-60	1	0	0	-82	-85	-42	-54
1987	-91	-91	-79	0	-78	-80	-92	0	0	-89	-89	-87	-82
1988	-87	-81	-85	0	-81	-89	-90	0	0	-81	-85	-87	-85
1989	-76	-81	-68	0	-55	-76	-77	0	0	-74	-74	-71	-69
1990	-77	-92	-77	0	-70	-82	-86	0	0	-73	-75	-82	-79
1991	-70	-89	-66	0	-62	-71	-65	0	0	-36	-28	-84	-69
1992	13	-74	-53	0	-65	-62	-45	0	0	-73	-74	-74	-51
1993	-57	-75	-20	0	66	-34	-69	0	0	12	50	-78	-31
1994	16	-55	-47	0	-4	-19	-9	0	0	15	9	17	-37
1995	-2	-40	-17	0	72	-8	-39	0	0	-4	-16	0	-15
1996	-5	-75	-52	0	37	-61	-24	0	0	59	17	60	-46
1997	-19	-62	-31	0	-23	-54	-17	0	0	-5	-32	-7	-31
1998	-44	-88	-32	0	-13	-73	-26	0	0	-46	-54	11	-47
1999	-68	-68	-9	0	-26	-59	-49	0	0	-30	-35	-4	-29
2000	-53	-78	-53	0	-48	-64	23	0	0	-8	-46	10	-50
2001	-51	-79	-37	0	-19	-67	-44	0	0	-19	-49	12	-41
2002	-64	-71	-9	0	-31	-12	-29	0	0	-35	-63	7	-27
2003	-38	-48	-4	0	3	5	28	0	0	-56	-71	20	-19
2004	na	na	-47	0	na	12	-56	na	na	-28	-61	68	-41

Table 20 (continued): Annual distortion estimates, **Zambia**, 1961 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)	Exportables	Import-competing	All	NRA	RRA
	Inputs	Outputs							
1961	0	-21	-3	na	-21	0	-20	15	-30
1962	0	-29	-4	na	-29	0	-27	15	-36
1963	0	-38	-6	na	-38	0	-35	19	-46
1964	0	-9	-4	na	-5	-9	-9	16	-22
1965	0	-11	-2	-7	-11	0	-12	16	-25
1966	0	-22	-7	-17	-24	-13	-22	15	-33
1967	0	-22	0	-9	-25	11	-21	18	-32
1968	0	-38	-17	-26	-41	-30	-39	25	-51
1969	0	-69	-51	-54	-49	-76	-71	26	-77
1970	0	-25	-13	17	-33	-24	-27	22	-40
1971	0	-50	-30	-29	-44	-54	-52	28	-63
1972	0	-43	-26	-20	-58	-42	-47	33	-60
1973	0	-45	-28	-25	-48	-51	-48	30	-60
1974	0	-47	-22	-22	-50	-38	-48	25	-58
1975	0	-63	-30	-39	-65	-46	-62	35	-72
1976	0	-39	-29	-25	-39	-53	-42	36	-57
1977	0	-74	-48	-59	-75	-67	-73	39	-81
1978	0	-66	-42	-47	-67	-63	-66	35	-75
1979	0	-45	-25	-17	-44	-46	-46	27	-57
1980	0	-49	-29	-18	-53	-50	-51	27	-61
1981	0	-13	-9	13	-39	-11	-15	22	-31
1982	0	-8	-7	18	-40	-4	-10	24	-27
1983	0	-15	-11	4	-46	-11	-18	20	-31
1984	0	-42	-26	-31	-61	-39	-45	27	-57
1985	0	-52	-33	-44	-61	-53	-55	21	-63
1986	0	-54	-36	-47	-70	-52	-56	18	-62
1987	0	-82	-69	-73	-91	-80	-83	29	-87
1988	0	-85	-70	-74	-85	-85	-85	30	-89
1989	0	-69	-50	-56	-78	-69	-71	24	-76
1990	0	-79	-62	-66	-85	-78	-80	28	-84
1991	0	-69	-48	-50	-74	-68	-70	23	-76
1992	0	-51	-32	-2	-46	-57	-54	18	-61
1993	0	-31	-19	-14	-59	-24	-34	19	-44
1994	0	-37	-20	-22	-25	-42	-39	19	-49
1995	0	-15	-10	-6	-22	-15	-17	17	-29
1996	0	-46	-27	-37	-36	-49	-46	17	-54
1997	0	-31	-20	-27	-37	-30	-32	12	-40
1998	0	-47	-44	-45	-73	-31	-54	13	-59
1999	0	-29	-31	-29	-63	-10	-34	8	-39
2000	0	-50	-25	-41	-54	-15	-48	8	-52
2001	0	-41	-22	-31	-47	-18	-41	8	-45
2002	0	-27	-30	-25	-62	-8	-32	8	-37
2003	0	-19	-19	-17	-48	-1	-22	5	-26
2004	0	-41	-20	-29	-46	-10	-39	5	-42

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 20 (continued): Annual distortion estimates, **Zambia**, 1961 to 2004  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	Cotton	Groundnut	Maize	Millet	Rice	Sorghum	Soybean	Sunflower	Tobacco r	Tobacco V	Tobacco B	Wheat	Non-covered
1961	na	na	68	na	na	na	na	na	9	1	na	22	
1962	na	na	66	na	na	na	na	na	11	1	na	22	
1963	na	na	64	na	na	na	na	na	12	1	na	23	
1964	na	na	64	na	na	na	na	na	12	2	na	23	
1965	1	15	55	na	na	na	na	na	10	1	na	19	
1966	2	12	48	4	na	3	na	na	7	0	0	24	
1967	0	10	52	4	na	3	na	0	7	0	0	23	
1968	1	11	44	5	0	4	na	0	8	0	0	26	
1969	1	6	49	2	0	2	na	0	3	0	0	38	
1970	2	16	40	5	0	4	na	0	6	0	0	26	
1971	1	9	50	2	0	2	na	0	3	0	0	31	
1972	1	13	46	5	0	2	na	0	3	0	0	30	
1973	1	18	38	3	0	2	0	0	5	0	0	31	
1974	0	10	50	2	0	1	0	1	5	0	0	29	
1975	0	9	52	1	0	2	0	0	3	0	0	32	
1976	1	16	44	1	0	1	0	1	4	0	0	32	
1977	1	7	49	1	0	1	0	0	2	0	0	39	
1978	1	5	51	0	0	1	0	0	3	0	0	37	
1979	3	5	53	1	0	1	0	1	4	0	0	31	
1980	3	4	56	0	0	1	0	2	1	0	0	33	
1981	3	3	57	0	0	1	1	3	3	1	1	28	
1982	4	3	51	0	0	1	1	6	2	1	1	28	
1983	4	4	50	1	1	1	1	6	2	0	1	29	
1984	8	3	46	1	0	1	2	3	2	0	1	33	
1985	3	2	50	1	0	1	1	2	1	0	1	36	
1986	3	2	49	0	0	2	1	1	4	0	1	37	
1987	2	5	31	0	0	1	2	0	1	0	2	55	
1988	4	1	33	0	0	1	1	0	1	0	2	56	
1989	5	4	41	0	0	1	2	0	1	0	2	44	
1990	3	6	31	0	0	1	2	0	1	1	3	51	
1991	5	6	34	0	1	1	1	0	1	1	6	44	
1992	5	6	35	2	1	1	1	1	2	1	8	37	
1993	5	7	41	2	0	1	3	1	1	1	3	34	
1994	3	6	46	3	1	1	2	1	1	0	2	34	
1995	4	6	47	3	1	2	3	1	1	1	3	27	
1996	3	4	52	1	0	1	2	1	0	0	1	33	
1997	7	8	40	2	1	2	2	1	2	1	4	31	
1998	5	17	27	1	0	1	1	2	2	2	2	39	
1999	11	8	35	1	0	1	1	0	2	1	3	35	
2000	5	8	43	1	0	1	1	1	2	1	3	34	
2001	7	11	33	1	0	2	2	1	2	2	5	34	
2002	7	9	35	1	0	0	1	0	2	3	4	37	
2003	4	6	34	1	0	0	2	0	6	7	5	34	
2004	na	na	44	1	na	0	6	na	5	6	3	35	

a. At farmgate undistorted prices

Table 20 (continued): Annual distortion estimates, **Zambia**, 1961 to 2004  
(d) Trade status<sup>a</sup> for covered products

	Cotton	Groundnut	Maize	Millet	Rice	Sorghum	Soybean	Sunflower	Tobacco V	Tobacco B	Wheat
1961	na	X	X	H	na	na	na	H	X	X	na
1962	na	X	X	H	na	na	na	H	X	X	na
1963	X	X	X	H	na	na	na	H	X	X	na
1964	X	X	M	H	na	na	na	H	X	X	na
1965	X	X	X	H	na	na	na	H	X	X	na
1966	X	X	X	H	M	M	na	H	X	X	M
1967	X	X	X	H	M	M	M	H	X	X	M
1968	X	X	X	H	M	M	M	H	X	X	M
1969	X	X	M	H	M	M	M	H	X	X	M
1970	X	X	M	H	M	M	M	H	X	X	M
1971	X	X	M	H	M	M	M	H	X	X	M
1972	X	X	M	H	M	M	M	H	X	X	M
1973	X	X	X	H	M	M	M	H	X	X	M
1974	X	X	X	H	M	M	M	H	X	X	M
1975	X	X	X	H	M	M	M	H	X	X	M
1976	X	X	X	H	M	M	M	H	X	X	M
1977	X	X	X	H	M	M	M	H	X	X	M
1978	X	X	X	H	M	M	M	H	X	X	M
1979	X	X	M	H	M	M	M	H	X	X	M
1980	X	X	M	H	M	M	M	H	X	X	M
1981	X	X	M	H	M	M	M	H	X	X	M
1982	X	X	M	H	M	M	M	H	X	X	M
1983	X	X	M	H	M	M	M	H	X	X	M
1984	X	X	M	H	M	M	X	H	X	X	M
1985	X	X	M	H	M	M	X	H	X	X	M
1986	X	X	M	H	M	M	X	H	X	X	M
1987	X	X	M	H	M	M	X	H	X	X	M
1988	X	X	M	H	M	M	M	H	X	X	M
1989	X	X	M	H	M	M	M	H	X	X	M
1990	X	X	M	H	M	M	M	H	X	X	M
1991	X	X	M	H	M	X	X	H	X	X	M
1992	X	X	M	H	M	X	X	H	X	X	M
1993	X	X	M	H	M	M	X	H	X	X	M
1994	X	X	M	H	M	M	M	H	X	X	M
1995	X	X	M	H	M	M	M	H	X	X	M
1996	X	X	M	H	M	M	X	H	X	X	M
1997	X	X	M	H	M	M	X	H	X	X	M
1998	X	X	M	H	M	M	X	H	X	X	M
1999	X	X	M	H	M	M	X	H	X	X	M
2000	X	X	X	H	M	M	X	H	X	X	M
2001	X	X	X	H	M	M	M	H	X	X	M
2002	X	X	M	H	M	M	X	H	X	X	M
2003	X	X	M	H	M	X	X	H	X	X	M
2004	X	X	X	H	M	M	M	H	X	X	M

Sources: Robinson, Govereh and Ndlela (2007)

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



Table 21: Annual distortion estimates, **Zimbabwe**, 1955 to 2004

(a) Nominal rates of assistance to covered products (percent)

	Cotton	Groundnut	Maize	Sorghum	Soybean	Sunflower	Tobacco	Wheat	All covered
1955	-92	-45	47	na	na	na	na	17	27
1956	-88	-46	34	na	na	na	na	51	20
1957	-87	-39	51	na	na	na	na	18	34
1958	-86	-29	28	na	na	na	na	21	18
1959	-81	-35	35	na	na	na	na	28	21
1960	-47	-33	24	11	na	0.0	-56	23	-48
1961	113	-32	-20	1	na	0	-39	42	-35
1962	261	-22	-5	-13	na	0	-33	38	-26
1963	68	-82	-12	-25	na	0	-39	32	-38
1964	25	-81	-12	-23	na	0	-47	34	-46
1965	-27	-87	-60	-18	na	0	-33	42	-49
1966	-26	-80	-20	44	na	0	-22	57	-27
1967	-27	-78	-13	-17	na	0	-43	78	-37
1968	-29	-74	-6	-43	0	0	-45	58	-29
1969	-29	-78	-10	-49	-29	0	-53	47	-37
1970	-53	-82	40	-63	-43	0	-62	6	-44
1971	-51	-82	-23	-62	-40	0	-58	29	-44
1972	-47	-68	-42	-38	-41	0	-50	47	-45
1973	-52	-72	-40	-56	-11	0	-38	16	-44
1974	-14	-70	-46	-66	-7	0	-21	-23	-44
1975	-42	-74	-49	-60	-35	0	-55	-20	-53
1976	-65	-79	-60	-61	-52	0	-61	-28	-64
1977	-67	-78	-42	-28	-59	0	-54	-2	-57
1978	-60	-73	-32	-25	-20	0	-46	-39	-50
1979	-48	-62	-45	-19	-44	0	-49	-29	-48
1980	-54	-73	-44	-25	-54	0	-56	-25	-52
1981	-44	-65	-40	-7	-58	0	-19	-17	-39
1982	-17	-55	-22	-24	-25	0	-42	4	-30
1983	-77	-75	-14	-57	-61	0	-65	2	-61
1984	-70	-75	-34	-41	-13	0	-47	-22	-51
1985	-61	-32	-28	-35	-24	0	-44	-21	-41
1986	-31	-57	-38	-6	-30	0	-47	0	-40
1987	-32	-41	-20	-41	-22	0	-57	28	-40
1988	-49	-26	-45	-56	-45	0	-32	-11	-40
1989	-67	-52	-49	-46	-47	0	-50	-40	-52
1990	-56	-50	-48	-58	-27	0	-25	-51	-40
1991	-75	-72	-62	-66	-65	0	-31	-50	-51
1992	-77	5	-72	-63	-60	0	-53	-62	-58
1993	-47	-69	-49	-57	-38	0	-44	-50	-47
1994	-32	-61	-14	-74	-52	0	-32	-23	-28
1995	-30	-60	3	-80	-33	0	-24	-55	-27
1996	-30	-36	-32	-69	-49	0	-22	-25	-27
1997	-33	-8	-37	-55	-65	0	-42	-36	-38
1998	-42	-56	-24	-87	-67	0	-44	-56	-43
1999	-44	-69	-74	-80	-57	0	-43	-47	-57
2000	-44	-76	17	-45	-54	0	-59	-69	-49
2001	-80	-81	-91	-75	-81	0	-64	-81	-82
2002	-88	-75	-93	-92	-86	0	-80	-81	-85
2003	-83	-95	-62	-95	-93	0	-83	-90	-77
2004	-22	-77	-85	-78	-29	0	-44	-62	-72

Table 21 (continued): Annual distortion estimates, **Zimbabwe**, 1955 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	NRA	RRA
	Inputs	Outputs							
1955	0	27	0	19	27	17	27	26	1
1956	0	20	0	14	20	51	20	26	-5
1957	0	34	0	24	34	18	34	26	6
1958	0	18	0	12	18	21	18	26	-7
1959	0	21	0	15	21	28	21	26	-4
1960	0	-48	0	-34	-48	17	-48	27	-59
1961	0	-35	0	-24	-35	8	-35	27	-49
1962	0	-26	0	-19	-26	-4	-26	27	-42
1963	0	-38	0	-27	-38	-16	-38	34	-53
1964	0	-46	0	-32	-50	-12	-46	30	-58
1965	0	-49	0	-39	-49	16	-81	32	-86
1966	0	-27	0	-22	-28	49	-42	30	-56
1967	0	-37	0	-26	-38	18	-38	29	-52
1968	0	-29	0	-16	-30	29	-30	31	-46
1969	0	-37	0	-25	-38	19	-37	31	-52
1970	0	-44	0	-24	-45	-2	-44	44	-61
1971	0	-44	0	-28	-46	20	-44	39	-60
1972	0	-45	0	-28	-47	30	-45	34	-59
1973	0	-44	0	-23	-46	-10	-44	36	-59
1974	0	-44	0	-28	-44	-28	-44	35	-58
1975	0	-53	0	-29	-54	-21	-53	42	-67
1976	0	-64	0	-37	-65	-31	-64	57	-77
1977	0	-57	0	-28	-59	-3	-57	53	-72
1978	0	-50	0	-26	-50	-38	-50	49	-66
1979	0	-48	0	-23	-50	-29	-49	40	-63
1980	0	-52	0	-27	-58	-42	-52	47	-68
1981	0	-39	0	-25	-40	-16	-39	41	-57
1982	0	-30	0	-16	-32	4	-30	41	-50
1983	0	-61	0	-27	-62	-40	-61	60	-75
1984	0	-51	0	-25	-58	-32	-51	46	-67
1985	0	-41	0	-25	-42	-21	-41	41	-58
1986	0	-40	0	-24	-42	-12	-40	44	-59
1987	0	-40	0	-19	-43	2	-40	40	-57
1988	0	-40	0	-23	-41	-11	-40	40	-57
1989	0	-52	0	-29	-54	-43	-53	46	-68
1990	0	-40	0	-23	-40	-51	-41	37	-57
1991	0	-51	0	-31	-51	-50	-51	41	-66
1992	0	-58	0	-31	-56	-69	-58	37	-69
1993	0	-47	0	-25	-46	-49	-47	33	-60
1994	0	-28	0	-15	-29	-23	-28	31	-45
1995	0	-27	0	-14	-25	-50	-27	27	-42
1996	0	-27	0	-14	-27	-34	-27	29	-44
1997	0	-38	0	-22	-38	-47	-46	16	-53
1998	0	-43	0	-23	-41	-61	-43	16	-51
1999	0	-57	0	-30	-44	-72	-57	17	-64
2000	0	-49	0	-26	-48	-69	-49	17	-57
2001	0	-82	0	-43	-82	-81	-82	24	-85
2002	0	-85	0	-45	-81	-92	-85	22	-88
2003	0	-77	0	-41	-84	-66	-77	20	-81
2004	0	-72	0	-38	-39	-84	-72	17	-76

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 21 (continued): Annual distortion estimates, **Zimbabwe**, 1955 to 2004 (c) Value shares of primary production of covered<sup>a</sup> and non-covered products, (percent)

	Cotton	Groundnut	Maize	Sorghum	Soybean	Sunflower	Tobacco	Wheat	Non-covered
1955	1	15	55	na	na	na	na	0	29
1956	0	12	58	na	na	na	na	0	29
1957	0	13	57	na	na	na	na	0	29
1958	1	12	58	na	na	na	na	0	29
1959	1	13	57	na	na	na	na	0	29
1960	0	2	6	0	na	0	62	0	29
1961	0	2	14	0	na	0	54	0	29
1962	0	2	16	0	na	0	53	0	29
1963	0	7	14	0	na	0	49	0	29
1964	0	7	8	0	na	0	56	0	29
1965	1	9	32	0	na	0	38	0	20
1966	3	9	28	0	na	0	38	0	21
1967	4	7	17	1	na	0	40	0	31
1968	5	5	22	0	0	0	20	0	47
1969	14	8	20	0	0	0	26	1	32
1970	13	7	9	0	0	0	23	1	45
1971	12	5	22	0	0	0	22	1	37
1972	12	3	27	0	0	0	17	1	39
1973	15	4	14	1	0	0	16	1	49
1974	8	19	24	0	0	0	11	2	35
1975	8	10	17	0	1	0	17	2	45
1976	9	13	16	0	1	0	17	2	42
1977	11	11	12	0	1	0	13	2	51
1978	11	10	12	0	1	0	15	3	48
1979	8	6	12	0	2	0	17	2	52
1980	9	6	17	0	2	0	16	2	48
1981	8	6	36	0	2	0	10	2	37
1982	7	5	19	0	1	0	18	2	48
1983	14	1	6	0	2	0	20	1	56
1984	16	1	11	0	1	0	19	1	51
1985	17	2	23	0	1	0	17	2	38
1986	8	5	22	0	1	0	21	2	41
1987	9	5	9	0	2	0	21	1	53
1988	13	2	22	0	2	0	17	2	42
1989	12	2	15	0	2	0	21	3	44
1990	10	3	16	0	1	1	21	4	44
1991	15	3	12	0	2	0	27	2	38
1992	6	0	7	0	1	0	38	1	47
1993	6	1	23	0	1	1	19	3	47
1994	4	2	16	0	2	1	25	3	47
1995	12	4	6	0	1	0	27	3	47
1996	9	2	14	0	1	0	25	2	47
1997	9	2	11	0	2	0	29	3	43
1998	11	1	9	0	2	0	27	3	47
1999	7	1	23	0	1	0	19	2	47
2000	7	3	6	0	2	0	32	4	47
2001	8	2	26	0	1	0	14	1	47
2002	5	1	17	0	1	0	27	2	47
2003	9	2	18	0	1	0	22	1	47
2004	6	2	37	0	1	0	6	1	47

a. At farmgate undistorted prices

Table 21 (continued): Annual distortion estimates, **Zimbabwe**, 1955 to 2004 (d) Trade status<sup>a</sup> for covered products

	Cotton	Groundnut	Maize	Sorghum	Soybean	Sunflower	Tobacco	Wheat
1955	X	X	X	na	na	na	na	M
1956	X	X	X	na	na	na	na	M
1957	X	X	X	na	na	na	na	M
1958	X	X	X	na	na	na	na	M
1959	X	X	X	na	na	na	na	M
1960	X	X	X	M	na	H	X	M
1961	X	X	X	M	na	H	X	M
1962	X	X	X	M	na	H	X	M
1963	X	X	X	M	na	H	X	M
1964	X	X	M	M	X	H	X	M
1965	X	X	X	M	X	H	X	M
1966	X	X	X	M	X	H	X	M
1967	X	X	X	M	M	H	X	M
1968	X	X	X	M	X	H	X	M
1969	X	X	X	M	X	H	X	M
1970	X	X	X	M	X	H	X	M
1971	X	X	X	M	X	H	X	M
1972	X	X	X	M	X	H	X	M
1973	X	X	X	M	X	H	X	M
1974	X	X	X	M	X	H	X	M
1975	X	X	X	M	X	H	X	M
1976	X	X	X	M	X	H	X	M
1977	X	X	X	M	X	H	X	M
1978	X	X	X	M	X	H	X	M
1979	X	X	X	M	X	H	X	M
1980	X	X	M	M	X	H	X	M
1981	X	X	X	M	X	H	X	M
1982	X	X	X	X	X	H	X	M
1983	X	X	X	X	M	H	X	M
1984	X	X	M	M	M	H	X	M
1985	X	X	X	X	X	H	X	M
1986	X	X	X	X	M	H	X	M
1987	X	X	X	X	M	H	X	M
1988	X	X	X	X	X	H	X	M
1989	X	X	X	X	M	H	X	M
1990	X	X	X	X	X	H	X	M
1991	X	X	X	X	X	H	X	M
1992	X	X	M	M	M	H	X	M
1993	X	X	M	M	X	H	X	M
1994	X	X	X	X	X	H	X	M
1995	X	X	X	M	M	H	X	M
1996	X	X	X	X	M	H	X	M
1997	X	X	X	X	M	H	X	M
1998	X	X	X	X	M	H	X	M
1999	X	X	M	M	M	H	X	M
2000	X	X	X	X	X	H	X	M
2001	X	X	X	X	M	H	X	M
2002	X	X	M	X	M	H	X	M
2003	X	X	M	M	M	H	X	M
2004	X	X	M	M	M	H	X	M

Sources: Ndlela and Robinson (2007)

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

Table 22: Annual distortion estimates for **Africa**, 1955 to 2005  
(a) Nominal rates of assistance to covered products  
(percent)

	apple	banan a	bean	beef	camel	cashe w	cassav a	chat	clove	cocoa	coffee
1955	na	na	na	-16	-2	na	0	na	na	-6	na
1956	na	na	na	-11	7	na	0	na	na	-5	-13
1957	na	na	na	-11	14	na	0	na	na	-6	-17
1958	0	na	na	-16	40	na	0	na	na	-32	-4
1959	0	na	na	-10	-32	na	0	na	na	-23	-10
1960	0	na	na	-23	-29	na	0	na	na	-15	-6
1961	-4	-3	-1	-25	-31	na	0	na	na	-16	-37
1962	-4	-1	26	-13	-36	na	0	na	na	-27	-30
1963	-13	-4	0	-16	-48	na	0	na	na	-39	-27
1964	0	-2	-2	-30	-51	na	0	na	na	-36	-37
1965	-5	-4	28	-28	-58	na	0	na	na	-43	-38
1966	1	-4	-2	-31	-65	na	0	na	-57	-47	-38
1967	-22	-3	-10	-21	-66	na	0	na	-54	-55	-31
1968	5	-2	-9	-26	-60	na	0	na	-59	-59	-38
1969	4	-8	0	-37	-59	na	0	na	-8	-64	-38
1970	-2	0	-16	-41	-69	na	0	na	8	-58	-42
1971	-11	0	0	-38	-53	na	0	na	18	-36	-43
1972	33	0	0	-38	1	na	1	na	26	-41	-43
1973	-1	0	0	-49	-28	na	1	na	-69	-50	-42
1974	-9	0	0	-20	-23	na	0	na	-74	-53	-49
1975	-15	1	0	20	5	-88	1	na	-74	-39	-46
1976	-24	0	-45	4	22	-73	1	na	-84	-61	-75
1977	19	0	-46	10	19	-82	1	na	-82	-74	-64
1978	0	-8	-60	11	48	-78	1	na	-85	-68	-69
1979	-18	-1	-41	-26	54	-78	2	na	-78	-60	-56
1980	-11	1	-51	-19	-18	-88	2	na	-85	-50	-57
1981	-36	0	-49	8	48	-88	3	-51	-91	-47	-45
1982	3	-2	-38	11	32	-69	4	-52	-95	-50	-54
1983	-10	-4	-63	13	-2	-77	3	-53	-96	-53	-60
1984	-12	-1	-62	42	-56	-80	0	-53	-93	-61	-51
1985	14	1	-70	-18	-30	-80	2	-51	-79	-59	-55
1986	16	1	-81	28	-57	-93	1	-50	-80	-51	-45
1987	24	-2	-64	41	-84	-91	0	-37	-89	-39	-43
1988	-14	-1	-60	48	-81	-78	0	-46	-91	-26	-40
1989	-6	-3	-54	16	-94	-72	0	-43	-86	-3	-29
1990	6	-2	-49	-17	-75	-58	1	-44	-86	-34	-31
1991	3	-1	-37	-30	-79	-52	0	-45	-82	-31	-29
1992	-5	-1	-29	-50	-85	-47	0	-45	-68	-35	-43
1993	-1	-1	2	-50	-93	-52	0	-45	-45	-43	-49
1994	25	20	-12	-42	-95	-59	-3	-46	-32	-31	-33
1995	-2	9	-15	-5	4	-14	-3	-43	-56	-29	-20
1996	6	6	-10	-6	-48	-6	-3	-45	-61	-34	-19
1997	-3	7	-19	0	67	-16	-3	-44	-74	-31	-24
1998	-1	2	-40	-6	29	-5	-3	-43	31	-34	-20
1999	-21	-1	-39	12	66	-6	-3	-41	24	-34	-20
2000	1	5	-24	-21	76	0	-3	-41	-3	-38	-13
2001	-6	3	-10	-46	56	-2	-2	-43	-55	-33	-7
2002	4	1	-12	-17	66	-19	-3	-47	2	-33	-13
2003	1	-1	-30	-24	62	-7	-3	-26	na	-42	-15
2004	1	-1	-49	-23	178	-21	-3	-41	na	-34	-12
2005	2	na	na	-3	na	na	0	na	na	-58	-20

Continued over

Table 22(a) (cont.)

	cotton	fruit& veg	grape	groun dnut	gumar abic	hides &skin s	maize	milk	millet	oilsee d	orang e
1955	-15	na	na	-22	-46	na	-26	-56	-80	na	na
1956	-17	na	na	-28	-41	na	-5	-47	-78	na	na
1957	-18	na	na	-26	-41	na	3	-34	-77	na	na
1958	-18	na	0	-30	1	na	4	-18	-75	na	0
1959	-13	na	0	-37	-39	na	3	-23	-74	na	0
1960	-28	na	0	-43	-43	na	3	-18	-73	na	0
1961	-46	0	-22	-20	-35	na	16	-34	-5	na	-2
1962	-36	0	-28	-18	-13	na	17	-22	-4	na	-2
1963	-44	0	-9	-30	-35	na	9	-18	-7	na	1
1964	-51	0	-17	-26	-41	na	15	-17	-9	na	-19
1965	-56	-1	-24	-33	-30	na	-13	-29	-7	na	-17
1966	-51	-2	-28	-32	-25	na	5	-16	-6	na	-4
1967	-48	-3	-23	-34	-48	na	5	-36	-7	na	-9
1968	-49	-2	-11	-40	-56	na	12	-40	-7	na	-8
1969	-59	-4	-8	-52	-52	na	3	-37	-5	na	-24
1970	-55	-6	-6	-52	-47	na	5	-34	-4	na	-31
1971	-50	-5	-20	-49	-57	na	-1	-42	-8	na	-27
1972	-45	-7	17	-49	-55	na	3	-51	-7	na	-40
1973	-58	-8	15	-54	-57	na	-10	-51	-1	na	-31
1974	-62	-4	5	-52	-76	na	-31	-34	0	na	-15
1975	-54	-1	17	-47	-42	na	-17	-20	-1	na	-21
1976	-46	-3	5	-43	-54	na	-8	5	-1	na	-9
1977	-55	-1	-8	-44	-53	na	-18	20	-2	na	-39
1978	-38	-3	15	-48	-45	na	-12	3	0	na	-11
1979	-53	-4	-29	-47	-43	na	-7	-10	-2	na	-27
1980	-53	-6	-19	-53	-63	na	7	-26	0	na	10
1981	-44	-6	-37	-57	-59	-46	0	-27	7	-52	-24
1982	-33	-7	-36	-18	-52	-47	-3	-51	-2	-48	-21
1983	-41	-5	-32	-57	-69	-47	5	-24	0	-29	-6
1984	-45	-5	-20	-37	-62	-48	-5	21	-2	-44	-17
1985	-51	-1	0	-32	-66	-46	-5	38	0	-45	-29
1986	-27	-2	33	-24	-80	-46	48	37	-6	-39	-7
1987	-16	-5	23	1	-67	-53	85	93	2	-46	-13
1988	-35	-3	13	3	-51	-52	29	95	2	-65	-28
1989	-27	-1	-7	-33	-69	-52	31	69	2	-46	2
1990	-59	0	-6	-39	-49	-52	12	10	1	-49	-4
1991	-53	-3	-4	17	-78	-49	21	-21	4	-55	-5
1992	-64	-9	39	-35	-85	-52	-4	-55	-1	-63	2
1993	-47	-12	-9	-51	-29	-51	2	-58	0	-66	-9
1994	-46	0	-7	-41	-45	-53	10	-10	-2	-52	0
1995	-31	0	3	-41	-36	-50	6	-28	4	-55	-3
1996	-43	-1	0	-41	-70	-52	-4	-32	1	-62	15
1997	-30	-1	10	-29	-50	-51	9	-18	-5	-52	3
1998	-39	-3	13	-34	-70	-47	4	20	-5	-50	-12
1999	-47	0	12	-33	-73	-45	-3	19	-10	-44	6
2000	-46	0	-5	-40	-73	-50	8	36	-3	-46	20
2001	-51	0	44	-43	-67	-50	-11	16	-2	-40	-12
2002	-56	0	2	-40	-56	-49	-3	-1	-3	-32	19
2003	-46	0	-2	-39	-60	-47	-8	25	-2	na	7
2004	-32	0	-2	-40	-80	-46	-13	-2	-1	na	8
2005	-16	na	-1	46	na	na	6	-5	0	na	17

Continued over

Table 22(a) (cont.)

	otherr oots& tubers	palmo il	peppe r	planta in	potato	poultr y	pulse	pyreth rum	rice	sesam e	sheep meat
1955	na	na	na	0	na	na	na	na	-68	-37	-6
1956	na	na	na	0	na	na	na	na	-65	-31	1
1957	na	na	na	0	na	na	na	na	-62	-30	-14
1958	na	na	na	0	na	na	na	na	-58	-54	-25
1959	na	na	na	0	na	na	na	na	-56	-49	-17
1960	na	na	na	0	na	-13	na	na	-54	-46	-22
1961	0	-18	na	0	na	-13	na	na	-31	-51	-21
1962	0	-13	na	0	na	-13	na	na	-31	-57	-5
1963	0	-35	na	0	na	-13	na	na	-37	-56	-12
1964	0	-34	na	0	na	-13	na	na	-38	-53	-11
1965	0	-43	na	0	na	-13	na	na	-37	-55	-16
1966	0	-34	-62	0	na	-13	na	na	-34	-59	-18
1967	0	-42	-48	0	na	-13	na	na	-35	-65	-18
1968	0	-10	-41	0	na	-13	na	na	-47	-69	-19
1969	0	-26	16	0	na	-13	na	na	-41	-70	-19
1970	0	-57	-9	0	na	-31	na	na	-11	-60	-28
1971	0	-51	-19	0	na	-15	na	na	5	-67	-6
1972	0	-25	6	0	na	-16	na	na	-2	-64	-11
1973	0	-47	6	0	na	-10	na	na	-39	-64	-27
1974	0	-42	-5	0	na	-7	na	na	-64	-72	-37
1975	0	-8	-24	0	na	-21	na	na	-40	-67	-13
1976	0	20	-47	0	0	-34	na	-87	-18	-63	-3
1977	0	-58	-35	0	0	-29	na	-92	12	-68	-35
1978	0	-27	-57	0	0	-22	na	-76	-14	-68	-25
1979	0	-13	-34	0	0	-12	na	-74	-10	-73	-30
1980	0	1	-19	0	0	20	na	-80	-17	-64	-17
1981	0	1	-38	0	0	23	-35	-69	-27	-59	-7
1982	0	-4	-57	0	0	6	-34	-62	-16	-59	-26
1983	0	-62	-54	0	0	31	-36	-70	-20	-51	-17
1984	0	-63	-65	0	0	12	-25	-77	11	-64	-34
1985	0	-43	-73	0	0	-21	-54	-71	21	-29	-46
1986	0	-19	-77	0	0	-13	-58	-85	11	-63	-31
1987	0	-27	-88	0	0	9	-55	-77	28	-57	-40
1988	0	80	-83	0	0	18	-57	-80	45	-39	-27
1989	0	-50	-78	0	0	-7	-57	-55	38	-54	-42
1990	0	-49	-71	0	0	-3	-44	-17	3	-58	-45
1991	0	95	-27	0	0	-4	-44	-17	16	-2	-40
1992	0	97	-16	0	0	5	-62	-25	-4	-61	-48
1993	0	-10	-22	0	0	20	-56	-52	-3	-66	-54
1994	0	405	-15	0	0	14	-54	-74	-9	-54	-56
1995	0	191	-50	0	0	15	-36	-68	-16	-30	-60
1996	0	27	-49	0	0	20	-43	-67	-13	-63	-62
1997	0	7	-78	0	0	21	-36	-71	-8	-59	-35
1998	0	3	-70	0	0	4	-32	-72	-5	-47	-42
1999	0	-22	-63	0	0	5	-29	-61	1	-50	-27
2000	0	-24	20	0	0	-2	-31	-49	-11	-55	-23
2001	0	-17	6	0	0	-15	-17	-43	-1	-53	-38
2002	0	-13	-56	0	0	-10	-14	-41	-13	-53	-37
2003	0	-9	na	0	0	20	na	-48	3	-32	-27
2004	0	0	na	0	0	20	na	-57	-5	2	18

2005      na      na      na      0      na      22      na      na      -12      na      6

Continued over

Table 22(a) (cont.)

	sisal	sorghum	soybean	sugar	sunflower	tea	teff	tobacco	vanilla	wheat	yam
1955	na	-35	na	-29	na	na	na	na	na	-16	0
1956	na	-20	na	-25	na	na	na	na	na	-16	0
1957	na	-40	na	-23	na	2	na	na	na	-11	0
1958	na	-34	na	-18	na	2	na	na	na	-13	0
1959	na	-47	na	-14	na	6	na	na	na	-8	0
1960	na	-51	na	-24	0	6	na	-56	-66	-15	0
1961	na	100	na	13	9	13	na	-38	-62	-24	0
1962	na	109	na	15	23	16	na	-32	-61	-35	0
1963	na	72	na	-17	24	7	na	-37	-66	-32	0
1964	na	78	na	-16	19	6	na	-45	-53	-31	0
1965	na	89	na	-23	12	3	na	-31	-55	-24	0
1966	na	107	na	7	10	-2	na	-21	-42	-23	0
1967	na	88	na	30	22	-6	na	-40	-57	-6	0
1968	na	72	0	27	19	-15	na	-45	-52	-4	0
1969	na	77	-29	16	22	-13	na	-52	-57	-5	0
1970	na	41	-43	0	13	-15	na	-58	-43	3	0
1971	na	44	-40	-18	8	-14	na	-55	-35	-6	0
1972	na	52	-41	-27	14	-24	na	-48	-34	19	0
1973	na	61	-15	-19	6	-25	na	-39	-37	-15	0
1974	na	47	-10	-57	-10	-22	na	-24	-46	-33	0
1975	na	29	-37	-51	0	-15	na	-55	-46	-13	1
1976	na	47	-51	-27	7	-48	na	-62	-68	0	1
1977	na	26	-59	8	8	-30	na	-56	-47	29	0
1978	na	36	-25	5	14	-28	na	-49	-75	32	0
1979	-39	5	-43	8	5	-31	na	-50	-49	13	1
1980	-37	7	-54	-41	25	-37	na	-55	-57	-14	2
1981	-20	39	-56	-35	20	-32	-2	-24	-67	-10	2
1982	-31	9	-23	4	15	-42	-4	-43	-87	0	2
1983	-55	-4	-56	38	19	-41	-2	-65	-86	2	1
1984	-60	32	-26	29	1	-15	-11	-49	-85	-3	0
1985	-49	56	-28	25	-2	-18	-10	-46	-83	-11	1
1986	-27	-3	-27	36	14	-15	-7	-50	-81	13	0
1987	-49	72	-38	78	18	-28	-9	-58	-91	38	0
1988	-25	44	-55	45	2	-46	-6	-34	-87	28	0
1989	5	37	-54	27	2	-38	-6	-51	-85	28	0
1990	-4	52	-46	-9	7	-30	-9	-29	-84	5	0
1991	-12	83	-65	-1	17	-34	-11	-34	-89	17	0
1992	-23	20	-58	-5	12	-67	-9	-53	-73	-5	0
1993	9	-1	-52	5	1	-43	-6	-43	-73	0	0
1994	-36	32	-44	18	-5	-28	-7	-31	-71	3	-3
1995	-3	21	-35	1	-5	-33	-5	-25	-69	-5	-4
1996	0	0	-41	-9	-6	-33	-1	-22	-49	-4	-4
1997	0	31	-56	11	-8	-35	-5	-40	9	7	-4
1998	0	24	-64	1	-14	-25	-4	-42	-5	4	-3
1999	0	38	-55	30	1	-14	-8	-42	-29	4	-3
2000	0	64	-43	51	-1	-19	-9	-57	-9	4	-3
2001	0	21	-75	35	-14	-9	-2	-60	6	1	-3
2002	0	9	-67	27	-7	-20	-8	-74	-35	-11	-3
2003	0	5	-38	54	0	-17	-12	-77	na	-2	-3
2004	0	4	-49	51	4	-17	-5	-48	na	2	-3



2005 na 0 4 12 1 na na na na 7 0

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Table 22 (continued): Annual distortion estimates for **Africa**, 1955 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	NRA	RRA
	Inputs	Outputs							
1955	0	-22	1	-17	-21	-31	-30	17	-41
1956	0	-18	1	-13	-17	-26	-25	17	-35
1957	0	-16	0	-13	-17	-22	-23	20	-36
1958	0	-17	1	-13	-25	-12	-22	23	-37
1959	0	-15	1	-13	-23	-11	-20	23	-35
1960	0	-23	1	-18	-32	-15	-30	22	-42
1961	0	-8	5	-4	-27	25	-7	-2	-6
1962	0	-4	6	-1	-25	42	-2	-2	0
1963	0	-11	3	-7	-32	23	-13	1	-13
1964	0	-14	4	-9	-35	18	-15	-3	-13
1965	0	-18	3	-12	-40	10	-22	1	-22
1966	0	-13	5	-8	-35	23	-14	-5	-10
1967	0	-15	1	-10	-33	12	-16	6	-21
1968	0	-17	2	-11	-37	10	-19	4	-22
1969	0	-23	0	-16	-46	5	-26	5	-30
1970	0	-20	-3	-15	-43	7	-25	6	-29
1971	0	-16	0	-11	-40	9	-20	1	-21
1972	0	-16	3	-10	-34	6	-18	0	-18
1973	0	-24	0	-17	-45	-6	-28	0	-28
1974	0	-29	0	-21	-50	-5	-33	-2	-32
1975	0	-19	2	-12	-41	12	-21	-3	-18
1976	0	-20	2	-12	-44	24	-21	-5	-17
1977	0	-20	-2	-15	-47	25	-25	11	-32
1978	0	-16	-3	-11	-43	19	-21	12	-29
1979	0	-20	0	-13	-38	-4	-23	9	-29
1980	1	-18	2	-11	-36	-2	-18	3	-21
1981	1	-10	1	-5	-28	8	-10	-10	0
1982	1	-9	2	-4	-29	18	-7	-15	10
1983	0	-11	-13	-11	-41	13	-19	17	-30
1984	0	-7	-9	-9	-42	29	-13	9	-21
1985	0	-12	-14	-12	-48	26	-21	12	-29
1986	0	1	-11	-3	-40	61	-5	12	-15
1987	0	13	-2	8	-31	98	17	1	15
1988	0	9	-6	4	-30	65	9	12	-2
1989	0	2	-5	-1	-35	47	0	7	-6
1990	0	-8	-6	-8	-36	12	-13	8	-19
1991	0	-3	-3	-4	-29	24	-5	1	-6
1992	0	-17	-7	-12	-42	-12	-23	6	-27
1993	0	-19	-7	-15	-41	-15	-27	4	-29
1994	0	-7	-1	-6	-31	18	-9	-8	-1
1995	0	-4	-4	-5	-27	10	-8	0	-8
1996	0	-10	-7	-10	-32	0	-17	3	-19
1997	0	-2	-6	-5	-27	17	-7	0	-7
1998	0	-3	-4	-5	-25	13	-8	0	-7
1999	0	0	-5	-4	-19	10	-5	5	-9
2000	0	-2	-7	-5	-19	4	-8	9	-15
2001	0	-10	-5	-9	-36	6	-17	3	-19
2002	0	-7	-5	-8	-22	-6	-13	6	-18
2003	0	-5	-5	-7	-25	4	-11	8	-18
2004	0	-5	-5	-6	-21	-1	-11	6	-16
2005	0	-1	-2	-2	-11	7	-2	14	-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 22 (continued): Annual distortion estimates for **Africa**, 1955 to 2005  
(c) Value shares of primary production of covered<sup>a</sup> and non-covered products,  
(percent)

	bean	beef	camel	cassava	cocoa	coffee	cotton	groundn ut	maize
1955	na	9	1	1	5	na	15	1	5
1956	na	9	1	1	5	1	15	1	6
1957	na	8	1	1	4	1	18	1	5
1958	na	8	1	1	6	1	15	1	5
1959	na	8	1	1	6	1	17	1	5
1960	na	8	1	1	5	1	17	1	4
1961	0	6	0	6	4	3	8	4	7
1962	0	5	0	7	4	2	8	4	7
1963	0	5	0	6	4	3	8	4	7
1964	0	6	0	6	5	4	7	4	6
1965	0	6	1	5	3	3	9	5	8
1966	0	7	1	8	3	4	7	4	7
1967	0	7	1	5	4	3	7	4	9
1968	0	7	1	4	4	4	7	3	7
1969	0	7	1	3	5	3	10	3	7
1970	0	7	1	4	5	4	8	3	6
1971	0	7	1	6	4	3	7	3	8
1972	0	8	0	5	3	4	7	3	7
1973	0	9	0	4	4	4	7	3	6
1974	0	5	0	3	3	2	7	4	9
1975	0	4	0	5	3	3	6	4	9
1976	0	5	0	6	4	8	6	3	7
1977	1	4	0	7	6	8	7	2	7
1978	1	5	0	8	5	6	5	3	6
1979	1	7	0	7	6	5	5	3	5
1980	1	7	0	7	4	4	5	3	7
1981	0	5	0	12	3	3	3	3	8
1982	0	5	0	10	2	4	3	1	8
1983	1	7	0	5	2	4	4	2	8
1984	1	5	1	8	4	3	4	2	8
1985	1	6	0	7	3	4	4	1	11
1986	0	7	1	7	3	5	4	2	7
1987	0	7	2	10	3	3	4	1	6
1988	0	7	2	8	3	3	5	1	9
1989	0	8	5	6	2	2	4	2	8
1990	0	6	1	8	2	2	4	2	9
1991	0	7	1	11	2	1	4	1	7
1992	0	8	0	10	2	1	5	1	7
1993	0	9	2	9	2	1	3	2	8
1994	0	8	1	9	2	3	2	1	9
1995	1	4	0	9	2	2	2	2	8
1996	0	4	0	9	3	2	3	2	8
1997	1	4	0	11	2	2	3	2	8
1998	1	4	0	11	3	2	2	2	8
1999	1	4	0	10	2	1	2	2	10
2000	1	6	0	10	2	1	2	2	8
2001	1	9	0	11	3	1	3	2	7
2002	0	5	0	10	3	1	2	2	8
2003	1	7	0	9	3	1	2	2	10
2004	1	7	0	9	3	1	2	2	10
2005	na	8	na	2	4	1	3	0	13

Continued over

Table 22(c) (cont.)

	milk	millet	orange	otherro ts&tuber s	palmoil	plantain	poultry	pulse	rice
1955	7	1	na	na	na	1	na	na	4
1956	7	1	na	na	na	1	na	na	4
1957	6	1	na	na	na	1	na	na	4
1958	6	1	0	na	na	1	na	na	4
1959	7	1	0	na	na	1	na	na	4
1960	6	1	0	na	na	1	1	na	3
1961	3	4	0	1	1	2	0	na	2
1962	2	4	0	1	1	2	0	na	3
1963	2	4	0	2	1	2	0	na	3
1964	2	3	0	1	1	2	0	na	3
1965	3	4	0	1	1	2	1	na	3
1966	2	3	0	1	1	2	1	na	3
1967	3	4	0	1	1	2	1	na	4
1968	3	4	0	2	1	2	1	na	6
1969	2	3	1	1	1	2	1	na	4
1970	2	4	1	1	1	2	1	na	2
1971	2	4	0	1	1	2	1	na	2
1972	3	4	1	1	0	2	1	na	2
1973	3	4	0	1	0	2	2	na	4
1974	2	3	0	1	1	1	1	na	6
1975	2	3	0	1	1	2	1	na	5
1976	2	3	0	1	0	2	1	na	4
1977	2	2	0	1	1	2	1	na	2
1978	2	2	0	0	1	2	1	na	3
1979	2	3	0	0	1	2	1	na	3
1980	2	2	0	0	1	2	1	na	3
1981	2	2	0	0	1	1	1	0	3
1982	3	3	0	0	0	1	1	1	3
1983	3	2	0	0	0	2	1	1	3
1984	2	2	0	0	1	2	1	1	2
1985	2	2	0	0	1	1	1	0	2
1986	2	3	0	0	0	1	1	1	3
1987	2	3	0	0	1	1	2	0	3
1988	2	2	0	0	0	2	2	0	2
1989	2	2	0	0	0	2	1	0	3
1990	2	2	0	0	0	2	2	1	3
1991	2	2	0	0	0	1	2	1	2
1992	2	2	0	0	0	2	2	0	3
1993	3	2	0	0	1	2	2	0	3
1994	3	2	0	0	0	3	2	0	3
1995	3	2	0	0	0	4	2	0	3
1996	3	2	0	0	1	2	2	0	3
1997	3	2	0	0	1	2	1	0	3
1998	3	3	0	0	1	2	1	0	3
1999	3	2	0	0	1	2	1	0	3
2000	3	2	0	0	1	3	2	0	3
2001	3	2	0	0	1	2	2	0	3
2002	4	2	0	0	1	2	2	0	3
2003	3	2	0	0	1	2	2	na	3
2004	4	2	0	0	1	2	2	na	3
2005	2	1	1	na	na	1	4	na	5

Continued over

Table 22(c) (cont.)

	sesame	sheepme at	sorghum	sugar	tea	teff	tobacco	wheat	yam
1955	1	1	2	1	na	na	na	4	5
1956	1	1	1	1	na	na	na	5	4
1957	1	4	3	1	0	na	na	5	4
1958	1	5	3	1	0	na	na	4	4
1959	1	4	3	1	0	na	na	4	4
1960	1	4	2	1	0	na	5	4	3
1961	0	2	4	2	0	na	2	2	7
1962	1	2	5	2	0	na	2	2	7
1963	0	2	4	2	0	na	2	2	7
1964	0	2	4	2	0	na	2	2	7
1965	0	2	4	2	0	na	1	2	5
1966	0	2	3	2	0	na	1	2	7
1967	0	2	3	1	0	na	1	2	5
1968	0	2	3	1	0	na	1	2	5
1969	0	2	3	2	0	na	1	2	5
1970	0	2	4	1	0	na	1	2	6
1971	1	2	4	2	0	na	1	2	8
1972	1	2	3	2	0	na	1	2	6
1973	1	2	3	2	0	na	1	2	6
1974	1	2	4	4	0	na	0	3	8
1975	1	2	3	4	0	na	1	2	7
1976	1	1	3	2	0	na	1	2	6
1977	0	2	3	2	1	na	0	1	6
1978	1	2	3	2	1	na	1	1	7
1979	1	2	3	2	1	na	1	2	7
1980	1	2	3	3	1	na	1	2	7
1981	0	2	3	2	0	0	0	4	7
1982	0	2	4	2	1	1	1	5	7
1983	0	2	3	1	1	0	1	6	4
1984	0	2	3	1	1	1	1	4	6
1985	0	2	2	1	1	1	1	4	5
1986	0	1	3	1	1	0	1	5	4
1987	0	2	3	1	1	0	1	4	5
1988	0	2	2	2	1	0	1	4	5
1989	0	2	2	2	1	0	1	5	5
1990	0	2	2	2	1	0	1	3	6
1991	0	1	2	2	1	1	1	5	8
1992	0	1	3	1	1	0	1	4	8
1993	0	2	3	1	1	0	1	4	7
1994	0	2	2	1	1	0	1	4	8
1995	0	2	2	1	1	0	1	4	9
1996	0	1	3	2	1	0	1	4	7
1997	0	1	2	1	1	0	1	4	8
1998	0	1	3	2	1	0	1	5	8
1999	0	1	2	1	1	1	1	5	8
2000	0	1	2	1	1	1	1	4	8
2001	0	2	2	1	1	0	1	5	7
2002	0	2	3	1	1	0	1	6	7
2003	0	2	3	1	1	0	1	5	7
2004	0	2	3	1	1	0	0	5	7
2005	na	1	2	2	na	na	na	11	2

\* Apple, banana, cashew, chat, clove, fruit and vegetables, grape, gum arabic, hides and skins, oilseed, pepper, potato, pyrethrum, sisal and soybean are omitted due to low shares (less than 0.5 percent of the gross value of regional production each year).

a. At farmgate undistorted prices

Sources: Anderson and Valenzuela (2008), based on estimates in Chs 2-17 of this book.

Table 23: Gross subsidy equivalents of assistance to farmers, African countries, 1955 to 2004<sup>a</sup>  
(constant 2000 US\$ million)

	Benin	Burkina Faso	Cameroun	Chad	Cote d'Ivoire	Egypt	Ethiopia	Ghana	Kenya	Madagascar	Mali
	BJ	BF	CM	TD	CI	EG	ET	GH	KE	MG	ML
1955	na	na	na	na	na	-1748	na	-33	na	2	na
1956	na	na	na	na	na	-1673	na	-16	119	2	na
1957	na	na	na	na	na	-1602	na	-36	142	2	na
1958	na	na	na	na	na	-1442	na	-239	168	2	na
1959	na	na	na	na	na	-1337	na	-190	121	2	na
1960	na	na	na	na	na	-1831	na	-130	142	-12	na
1961	na	na	-81	na	-388	-2364	na	16	29	-116	na
1962	na	na	-74	na	-253	-2268	na	-174	157	-68	na
1963	na	na	-102	na	-376	-2757	na	-284	255	-100	na
1964	na	na	-76	na	-606	-3142	na	-369	227	-123	na
1965	na	na	-101	na	-424	-3821	na	-231	-41	-111	na
1966	na	na	-126	na	-638	-3205	na	-312	-64	-201	na
1967	na	na	-164	na	-470	-2431	na	-393	180	-146	na
1968	na	na	-203	na	-726	-3250	na	-360	189	-309	na
1969	na	na	-278	na	-755	-4035	na	-455	112	-157	na
1970	-3	-1	-238	-8	-735	-2937	na	-341	-94	-14	-6
1971	-6	-3	-179	-14	-562	-3065	na	-70	-246	-13	-10
1972	-7	-4	-183	-15	-632	-2902	na	-204	-32	-18	-11
1973	-20	-11	-309	-50	-800	-4773	na	-427	-110	-515	-24
1974	-5	-4	-406	-15	-982	-7087	na	-626	-188	-1229	-10
1975	-5	-9	-172	-30	-516	-4085	na	-480	65	-405	-25
1976	-6	-18	-469	-44	-3819	-1926	na	-679	193	-621	-46
1977	-2	-4	-1110	-15	-2792	-558	na	-874	-858	-633	-17
1978	-4	-10	-793	-23	-2026	-444	na	-730	-436	-756	-28
1979	-5	-12	-636	-14	-1962	-3216	na	-874	252	-362	-24
1980	-3	-12	-342	-14	-1735	-2979	na	-499	-634	-553	-23
1981	-1	-7	-183	-8	-1864	-3432	-1509	-611	-382	-706	-13
1982	-4	-12	-224	-14	-1147	-1936	-1917	-493	-666	-566	-23
1983	-8	-17	-208	-30	-1639	902	-1985	na	-266	-516	-30
1984	-9	-11	-414	-8	-1291	1426	-2039	-13	-91	-554	-19
1985	2	1	-192	2	-1690	-941	-3524	-204	183	-213	-1
1986	1	0	-184	2	-1215	4212	-2203	-217	248	-230	-5
1987	-3	-6	26	-1	-1082	7063	-1969	1	309	-315	-10
1988	-2	-4	67	1	-774	7758	-2277	-3	-179	-244	-9
1989	-12	-16	45	-12	-473	8648	-1986	-31	281	-195	-32
1990	-11	-14	-42	-8	-852	-1073	-2360	-41	31	-101	-23
1991	-5	-4	-34	-2	-652	511	-2920	44	-117	-110	-8
1992	4	2	-3	3	-669	-1388	-2270	3	130	-80	9
1993	-9	-3	-42	-3	-709	-674	-1380	-37	-441	-94	-8
1994	-43	-32	-45	-25	-879	-287	-2008	-107	11	20	-60
1995	-33	-17	-10	-16	-844	-117	-2080	-94	-35	-103	-46
1996	-22	-17	4	-14	-955	-728	-1785	-121	-16	-42	-43
1997	-25	-26	-47	-12	-909	679	-2301	-64	81	-60	-43
1998	2	-5	-93	0	-942	954	-2039	-63	-63	9	-7
1999	-4	-2	-46	1	-737	980	-2276	-47	210	3	-14
2000	-12	-11	6	-6	-643	338	-1513	-105	88	30	-11
2001	3	6	5	0	-700	-523	-699	41	237	-16	8
2002	-7	-7	-29	-3	-1025	-1426	-1227	27	92	-37	-5
2003	-10	-16	-21	-4	-1048	-437	-1183	-112	133	-1	-10
2004	7	27	19	8	-1139	-808	-945	-22	153	75	27

Continued over

Appendix Table 23 (continued)

	Mozam bique	Nigeria	RSA	Senega l	Sudan	Tanzan ia	Togo	Uganda	Zambia	Zimbab we
	MZ	NG	ZA	SN	SD	TZ	TG	UG	ZM	ZW
1955	na	na	na	na	-347	na	na	na	na	40
1956	na	na	na	na	-260	na	na	na	na	39
1957	na	na	na	na	-298	na	na	na	na	58
1958	na	na	na	na	-338	na	na	na	na	26
1959	na	na	na	na	-478	na	na	na	na	30
1960	na	na	na	na	-545	na	na	na	na	-478
1961	na	2272	96	-96	-509	na	na	-12	na	-298
1962	na	2827	441	-70	-594	na	na	-5	na	-211
1963	na	1647	177	-76	-712	na	na	-45	na	-326
1964	na	2029	29	-61	-1070	na	na	-83	na	-420
1965	na	1417	119	-60	-996	na	na	-34	-21	-564
1966	na	2298	406	-55	-1064	na	na	-47	-74	-206
1967	na	605	596	-45	-1313	na	na	-81	-34	-277
1968	na	1057	748	-22	-1250	na	na	-62	-103	-204
1969	na	502	630	-88	-1374	na	na	-96	-514	-275
1970	na	-298	181	-77	-1910	na	0	-116	54	-267
1971	na	907	332	-105	-1945	na	-1	-107	-182	-373
1972	na	1332	540	-111	-2019	na	-1	-140	-122	-481
1973	na	1162	-205	-265	-2901	na	-3	-185	-150	-441
1974	na	1234	-2349	-612	-3960	na	-1	-445	-161	-811
1975	na	2116	-676	-593	-2545	na	-2	-462	-407	-809
1976	-299	2915	-68	-327	-1588	-1085	-3	na	-192	-1083
1977	-301	-776	873	-126	-1875	-1529	-1	na	-790	-794
1978	-367	-330	935	-419	-1269	-1601	-3	na	-451	-613
1979	-154	1004	587	-421	-2027	-1886	-4	na	-101	-594
1980	-344	2281	1520	-289	-2653	-1477	-5	na	-198	-762
1981	-247	5179	2797	-612	-1967	-1066	-3	22	91	-748
1982	-161	5293	2749	-26	-2981	-651	-6	-133	70	-377
1983	-137	-1615	2302	-61	-2536	-986	-7	-260	18	-524
1984	-101	-147	966	-113	-1728	-1130	-9	-206	-134	-598
1985	-106	474	-208	-70	-1548	-567	0	-165	-203	-534
1986	-131	770	912	46	-2580	-792	-1	-149	-216	-480
1987	-148	3733	2196	172	-2874	-645	-4	-134	-377	-384
1988	-124	1278	956	87	-1882	-697	-4	-43	-733	-574
1989	-91	753	406	-13	-6035	-623	-10	-61	-451	-691
1990	-28	456	788	45	-1481	-630	-8	10	-422	-512
1991	-20	2825	866	34	-1826	-458	-2	-41	-259	-806
1992	-17	-488	401	97	-4395	-278	1	-11	-4	-490
1993	-13	-1285	578	83	-5904	-95	-3	-4	-82	-614
1994	-22	2464	1569	-71	-4561	-148	-24	-16	-123	-257
1995	13	858	979	-35	-2351	-566	-11	-4	-22	-272
1996	41	-1622	759	-16	-3375	-294	-12	1	-352	-396
1997	48	158	1020	-38	-1928	-393	-11	35	-140	-470
1998	72	615	-371	-5	-1423	-739	-2	34	-272	-393
1999	82	474	-108	-63	-161	-889	0	23	-201	-805
2000	52	-1118	309	-111	-412	-437	-4	14	-237	-504
2001	45	-539	-406	-74	-2923	-396	1	14	-127	-1432
2002	58	-959	-283	-16	-653	-170	-4	13	-128	-782
2003	71	-1612	293	3	-1236	-155	-8	13	-96	-562
2004	49	-942	156	-13	-825	-492	1	16	-205	-975

Source: Anderson and Valenzuela (2008), based on estimates in Chapters 2-17 of this book.



Table 24: Share of regional value of agricultural production<sup>a</sup>, Africa countries, 1955 to 2005  
(percent)

	CM	CI	EG	ET	GH	KE	MG	MZ	NG	ZA	SN	SD	TZ	UG	ZM	ZW	CC <sup>b</sup>
1955	na	na	50	na	17	na	9	na	na	2	na	21	na	na	na	1	na
1956	na	na	47	na	17	4	8	na	na	2	na	21	na	na	na	1	na
1957	na	na	47	na	14	4	7	na	na	4	na	22	na	na	na	1	na
1958	na	na	49	na	17	4	7	na	na	4	na	19	na	na	na	1	na
1959	na	na	48	na	16	3	7	na	na	4	na	21	na	na	na	1	na
1960	na	na	45	na	15	3	6	na	na	5	na	20	na	na	na	6	na
1961	7	4	18	na	6	2	4	na	27	13	2	8	na	5	1	2	na
1962	8	4	18	na	5	2	4	na	29	12	2	10	na	5	1	2	na
1963	8	4	19	na	5	2	4	na	27	13	2	9	na	5	1	2	na
1964	7	5	20	na	5	2	4	na	27	12	2	8	na	5	1	2	na
1965	7	4	23	na	4	3	4	na	23	11	2	9	na	6	1	3	na
1966	7	5	20	na	4	3	4	na	27	12	2	9	na	5	1	2	na
1967	7	5	20	na	5	2	4	na	23	16	2	9	na	5	1	2	na
1968	8	6	22	na	4	2	5	na	22	13	2	10	na	5	1	2	na
1969	7	5	23	na	5	2	4	na	22	13	1	9	na	6	2	2	na
1970	7	5	17	na	4	2	3	na	24	13	1	10	na	6	1	1	6
1971	6	4	16	na	4	2	3	na	24	14	1	10	na	7	1	2	5
1972	7	5	18	na	4	2	3	na	20	14	1	11	na	5	1	2	5
1973	7	5	20	na	4	2	4	na	22	14	2	11	na	4	1	2	5
1974	5	4	22	na	3	2	4	na	24	16	2	9	na	3	1	2	3
1975	5	5	20	na	4	2	3	0	22	15	3	10	na	4	1	2	4
1976	5	10	17	na	3	2	2	1	21	11	2	9	4	4	1	2	4
1977	6	9	13	na	3	5	3	1	20	10	1	9	4	7	1	2	6
1978	5	8	13	na	4	3	2	1	24	10	2	9	4	7	1	2	5
1979	5	10	14	na	3	2	2	1	18	13	2	10	5	6	1	2	7
1980	5	7	15	na	4	3	2	2	18	14	1	10	3	7	1	2	6
1981	3	5	12	10	2	2	2	1	28	12	2	10	2	2	1	2	4
1982	3	5	14	13	2	3	1	1	25	10	1	10	2	3	0	2	5
1983	3	7	14	17	na	2	2	1	20	10	1	11	2	4	1	1	5
1984	3	6	13	14	3	3	2	0	25	10	1	9	2	3	1	2	4
1985	2	6	12	20	2	2	2	0	25	8	1	8	2	2	0	2	4
1986	4	6	14	16	2	3	2	0	22	9	1	9	2	2	1	2	5
1987	3	6	12	12	3	2	2	1	26	10	1	11	2	2	0	2	6
1988	4	6	13	13	2	3	2	1	21	11	1	10	2	3	1	2	6
1989	3	4	13	12	2	2	2	1	22	10	1	16	2	3	1	2	5
1990	4	5	13	13	2	2	2	1	26	10	1	9	2	3	0	2	6
1991	3	4	12	14	3	2	2	1	25	10	1	9	1	2	0	2	7
1992	4	5	12	11	3	2	2	1	26	10	1	8	2	3	0	1	8
1993	4	5	13	8	3	2	2	1	22	11	1	12	2	4	1	2	7
1994	5	6	11	12	2	3	2	1	23	10	1	11	2	5	1	1	5
1995	4	5	11	12	3	2	2	1	28	8	1	8	3	6	0	1	5
1996	4	5	13	10	2	2	1	1	29	9	0	8	2	3	1	2	6
1997	3	5	11	13	3	2	1	1	29	8	1	8	3	4	0	2	5
1998	3	5	10	14	4	2	2	1	27	8	0	8	3	4	1	1	6
1999	3	4	11	15	3	2	2	2	28	8	1	7	3	4	1	2	5
2000	3	5	12	12	3	2	2	1	27	8	1	10	3	5	1	2	5
2001	4	4	12	10	3	2	2	1	23	8	1	14	3	5	0	3	6
2002	4	5	11	13	3	2	2	1	24	8	0	10	3	4	1	2	7
2003	3	4	10	14	4	2	1	1	22	9	1	12	3	5	1	1	7
2004	3	4	12	13	4	2	1	0	21	10	1	12	3	5	1	2	6

Continued over

Table 24 (cont.)  
Five year averages

	CM	CI	EG	ET	GH	KE	MG	MZ	NG	ZA	SN	SD	TZ	UG	ZM	CC <sup>b</sup>
1955-59	na	na	48	na	16	4	8	na	na	3	na	21	na	na	na	na
1960-64	7	4	24	na	7	2	4	na	27	11	2	11	na	5	1	na
1965-69	7	5	22	na	4	2	4	na	23	13	2	9	na	5	1	na
1970-74	6	5	19	na	4	2	3	na	23	14	1	10	na	5	1	5
1975-79	5	8	15	na	3	3	3	1	21	12	2	9	4	6	1	5
1980-84	3	6	13	14	3	3	2	1	23	11	1	10	2	4	1	5
1985-89	3	6	13	15	2	2	2	1	23	10	1	11	2	2	1	5
1990-94	4	5	12	12	3	2	2	1	25	10	1	10	2	3	1	7
1995-99	3	5	11	13	3	2	2	1	28	8	1	8	3	4	1	6
2000-04	3	5	11	12	3	2	2	1	23	9	1	12	3	5	1	6

*Source:* Anderson and Valenzuela (2008), based on estimates in Chapters 2-17 of this book.

a. Value of production at undistorted prices.

b. Cotton countries: Benin, Burkina Faso, Chad, Mali and Togo.

Table 25: Summary of NRA data for studied African countries

Country	ISO Code	Max. number of years	Maximum number of products	Number of NRA observations	2000-04		
					Weighted average NRA <sup>a</sup>	Standard deviation NRA <sup>b</sup>	Gross value of production <sup>c</sup>
Benin	BJ	36	5	180	-0.5	7.2	1.1
Burkina Faso	BF	36	5	180	-0.1	10.4	1.2
Cameroon	CM	45	10	432	-0.1	7.5	2.9
Chad	TD	36	5	180	-0.1	10.3	0.7
Cote d'Ivoire	CI	45	7	310	-24.5	33.1	3.8
Egypt	EG	51	7	357	-6.1	22.1	9.8
Ethiopia	ET	25	8	192	-11.2	23.6	10.5
Ghana	GH	49	7	343	-1.4	25.5	2.9
Kenya	KE	49	7	324	9.3	25.6	1.6
Madagascar	MG	51	10	413	1.0	22.5	1.3
Mali	ML	36	5	180	0.1	9.9	1.7
Mozambique	MZ	31	14	378	12.4	37.9	0.9
Nigeria	NG	44	10	440	-5.4	53.2	19.8
RSA	ZA	51	14	618	-0.1	20.3	7.4
Senegal	SN	45	4	169	-7.5	18.6	0.5
Sudan	SD	50	12	594	-11.9	63.2	10.0
Tanzania	TZ	29	18	517	-12.4	51.9	2.7
Togo	TG	36	5	172	-0.7	7.7	0.4
Uganda	UG	44	13	572	0.4	6.9	4.0
Zambia	ZM	45	10	394	-29.6	38.1	0.5
Zimbabwe	ZW	51	8	373	-56.8	33.9	1.5
<b>All AFRICA studied countries<sup>c</sup></b>		<b>51</b>	<b>44</b>	<b>7318</b>	<b>-7.3</b>	<b>25.2</b>	<b>85.4</b>

*Source:* Anderson and Valenzuela (2008), based on estimates in in Chs 2-17 of this book.

a. Weighted average NRA and standard deviation NRA for covered products using the gross value of production at undistorted prices as weights.

b. Simple average of country 5-year averages.

c. Gross value of total production at undistorted prices, in current US\$ billions.

Table 26: Summary of NRA data by major product, African region, 2000-04

Product	Unweighed average NRA	Weighted average NRA	Gross Value of Production <sup>a</sup>	Countries included (by ISO code)
Apple <sup>b</sup>	0.0	0.0	0.00	ZA
Banana	0.2	0.3	0.15	CM
Bean	1.1	1.1	0.08	MZ, TZ, UG
Beef	-1.7	-25.1	0.49	EG, ZA, SD
Camel	-18.1	-26.0	5.89	SD
Cashew	87.7	87.7	0.10	MZ, TZ
Cassava	-9.6	-9.9	0.06	BJ, BF, CM, TD, CI, GH, MG, ML, MZ, NG, TZ, TG, UG
Chat	-0.4	-2.6	8.45	ET
Clove	-39.5	-39.5	0.07	MG
Cocoa	-18.7	-18.7	0.05	CM, CI, GH, MG, NG
Coffee	-23.4	-35.8	2.59	CM, CI, ET, KE, MG, TZ, UG
Cotton	-13.5	-12.0	0.70	BJ, BF, CM, CI, TD, EG, ML, MZ, NG, SN, SD, TZ, TG, UG, ZM, ZW
Fruit & veg <sup>b</sup>	-20.7	-46.1	1.94	KE
Grape <sup>b</sup>	0.0	0.0	0.14	ZA
Groundnut	4.2	7.4	0.21	GH, MZ, NG, SN, SD., UG, ZM, ZW
Gumarabic	-27.3	-40.3	1.72	SD
Hides & skins	-67.1	-67.1	0.02	ET
Maize	-48.4	-48.4	0.03	CM, EG, ET, GH, KE, MG, MZ, NG, ZA, TZ, UG, ZM, ZW
Milk	3.5	-5.4	7.24	EG, SD
Millet	3.5	14.6	2.99	BJ, BF, CM, TD, ML, MZ, NG, SN, SD, TZ, TG, UG, ZM
Oilseed	-0.3	-2.3	1.79	ET
Orange <sup>b</sup>	-39.4	-39.4	0.08	ZA
Roots & tubers	5.7	8.4	0.23	CM
Palmoil	0.0	0.0	0.38	NG
Pepper	-12.6	-12.6	0.73	MG
Plantain	-10.2	-10.2	0.00	CM, CI, GH, TZ, UG
Potato	-0.1	-0.1	1.93	MZ, TZ
Poultry	0.0	0.0	0.07	ZA
Pulse	2.7	2.7	1.36	ET
Pyrethrum	-20.4	-20.4	0.16	TZ
Rice	-47.7	-47.7	0.00	CI, EG, GH, MG, MZ, NG, SN, TZ, UG, ZM
Sesame	9.0	-5.5	2.45	SD
Sheepmeat	-38.1	-38.1	0.20	ZA, SD
Sisal	-10.6	-21.4	1.57	TZ
Sorghum	0.0	0.0	0.01	
Soybean	-2.5	20.7	2.13	ZM, ZW
Sugar	-42.1	-54.2	0.04	EG, KE, MG, MZ, ZA, SD, TZ, UG
Sunflower	54.1	43.7	1.03	ZA, ZM, ZW
Tea	-1.3	-3.5	0.15	KE, TZ, UG
Teff	-30.2	-16.4	0.58	ET
Tobacco	-7.1	-7.1	0.37	MZ, TZ, ZM, ZW
Vanilla	-45.4	-63.0	0.51	MG
Wheat	-12.8	-12.8	0.06	EG, ET, KE, ZA, SD, TZ, ZM, ZW
Yam	14.5	-1.1	4.03	BJ, BF, TD, CI, GH, MG, ML, MZ, NG, TZ, TG, UG
<b>All covered products</b>	<b>-9.6</b>	<b>-7.3</b>	<b>52.8</b>	

Sources: Anderson and Valenzuela (2008), based on estimates in in Chs 2-17 of this book.

a. Average annual gross value of production of covered products at undistorted prices (US\$billion).

b. Even though apple, fruit and vegetables, grape and orange are covered only by one country, the weighted and simple averages differ because traded and nontraded products have treated separately.

Table 27: Shares of the global volume of production and consumption of covered agricultural products, African countries<sup>a</sup>, 2000

		CM	CI	EG	ET	GH	KE	MG	MZ	NI	ZA	SE	SD	TZ	UG	ZM	ZW	All studied	World
Apple	C										0.5							0.5	100.0
	Q										1.0							1.0	100.0
Banana	C	0.6																0.6	100.0
	Q	1.0																1.0	100.0
Bean	C								0.0					1.6	2.4			4.0	100.0
	Q								0.0					1.6	2.5			4.1	100.0
Beef	C			1.2							1.1		0.5					2.8	100.0
	Q			0.9							1.0		0.5					2.4	100.0
Cassava	C	1.1				4.6		1.4		18.0				4.0	2.8			31.9	100.0
	Q	1.1				4.6		1.4		18.0				4.0	2.8			31.8	100.0
Cocoa	C	0.2	4.8			1.5		0.0		5.1								11.6	100.0
	Q	3.6	41.4			13.0		0.1		10.0								68.2	100.0
Coffee	C	0.2	0.4		1.7		0.1	0.6						0.0	0.1			3.2	100.0
	Q	1.1	4.5		3.1		1.3	0.8						0.6	1.9			13.3	100.0
Cotton Lint	C	0.1	0.1	0.9					0.0	0.8		0.0	0.0	0.1	0.0	0.1	0.1	2.3	100.0
	Q	0.5	1.0	1.2					0.1	0.8		0.0	0.3	0.2	0.1	0.1	0.7	4.9	100.0
Cotton Seed	C	0.3	0.5	1.0					0.1	0.7		0.0	0.3	0.2	0.1	0.1	0.5	3.9	100.0
	Q	0.3	0.7	1.0					0.1	0.7		0.0	0.3	0.2	0.1	0.1	0.6	4.2	100.0
Grape	C										1.8							1.8	100.0
	Q										2.3							2.3	100.0
Groundnut	C					0.6			0.3	8.4		2.1	2.7		0.4	0.2	0.5	15.3	100.0
	Q					0.6			0.3	8.3		3.0	2.7		0.4	0.1	0.5	16.1	100.0
Maize	C	0.1		1.8	0.5	0.2	0.5	0.0	0.2	0.7	1.5			0.5	0.2	0.2	0.3	6.7	100.0
	Q	0.1		1.1	0.5	0.2	0.4	0.0	0.2	0.7	1.9			0.4	0.2	0.1	0.4	6.1	100.0
Milk	C			0.7									0.8					1.5	100.0
	Q			0.7									0.8					1.5	100.0
Sheepmeat	C										1.8		2.3					4.1	100.0
	Q										1.4		2.3					3.7	100.0
Poultry	C										1.3							1.3	100.0
	Q										1.2							1.2	100.0
Rice	C		0.3	0.8		0.1		0.5	0.1	0.8		0.2		0.2	0.0	0.0		3.0	100.0
	Q		0.2	1.0		0.0		0.4	0.0	0.6		0.0		0.1	0.0	0.0		2.4	100.0
Sorghum	C	0.7								13.4			5.2	1.1	0.6	0.1	0.1	21.2	100.0
	Q	0.8								13.8			4.5	1.2	0.6	0.1	0.2	21.1	100.0

Continued over

Table 27 (cont)

Soybean	C									0.0	0.1	0.1	100.0			
	Q									0.0	0.1	0.1	100.0			
Sugar	C	1.5		0.4	0.1	0.2			0.3	0.2	0.1		2.7	100.0		
	Q	1.0		0.3	0.1	0.0			0.4	0.1	0.1		1.9	100.0		
Sunflower	C											2.9	0.1	0.1	3.1	100.0
	Q											2.1	0.1	0.1	2.3	100.0
Tea	C			1.1						0.1	0.1			1.2	100.0	
	Q			6.2						0.6	0.8			7.6	100.0	
Wheat	C	1.9	0.4	0.1			0.5	0.2	0.1			0.0	0.1	3.3	100.0	
	Q	1.1	0.2	0.0			0.4	0.0	0.0			0.0	0.0	1.9	100.0	

Source: Based on data from the Food and Agriculture Organization, FAOSTAT.

Table 28: Shares of the global value of imports and exports of covered agricultural products, African countries, 2000

		CM	CI	EG	ET	GH	KE	MG	MZ	NI	ZA	SE	SD	TZ	UG	ZM	ZW	All studied	Total, world
Banana	M	0.0																0.0	100.0
	X	1.2																1.2	100.0
Bean <sup>a</sup>	M								0.0					0.0	0.0			0.0	100.0
	X								0.0					0.2	0.2			0.4	100.0
Beef	M			1.6							0.1		0.0					1.6	100.0
	X			0.0							0.1		0.0					0.1	100.0
Coffee <sup>b</sup>	M	0.0	0.0		0.0		0.0	0.0						0.0	0.0			0.0	100.0
	X	1.0	2.5		2.6		1.6	0.0						1.1	1.2			9.9	100.0
Cotton <sup>c</sup>	M	0.0	0.0	0.1					0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0	0.2	100.0
	X	1.0	2.2	1.9					0.1	0.0		0.1	0.8	0.5	0.2	0.1	2.6	9.6	100.0
Groundnut <sup>d</sup>	M					0.0			0.0	0.2		0.0	0.0		0.0	0.0	0.2	0.4	100.0
	X					0.1			0.0	0.0		0.2	0.5		0.0	0.0	0.2	1.1	100.0
Maize	M	0.0		5.3	0.1	0.0	0.8	0.0	0.2	0.0	0.3			0.1	0.0	0.0	0.0	6.8	100.0
	X	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8			0.0	0.0	0.0	0.1	1.0	100.0
Milk	M			0.7										0.1				0.7	100.0
	X			0.0										0.0				0.0	100.0
Sheepmeat	M										0.9		0.0					0.9	100.0
	X										0.0		0.8					0.8	100.0
Poultry	M										0.5							0.5	100.0
	X										0.1							0.1	100.0
Rice	M		1.4	0.0		0.7		0.6	0.3	2.9		1.5		0.8	0.2	0.0		8.4	100.0
	X		0.0	1.7		0.0		0.0	0.0	0.0		0.0		0.0	0.0	0.0		1.8	100.0
Soybean <sup>e</sup>	M															0.0	0.1	0.1	100.0
	X															0.0	0.1	0.1	100.0
Sugar	M			0.7			0.5	0.1	0.7		0.0		0.1	0.5	0.2			2.9	100.0
	X			0.0			0.0	0.0	0.3		2.9		0.3	0.1	0.0			3.6	100.0
Tea	M						0.0							0.0	0.0			0.0	100.0
	X						15.7							1.4	1.3			18.3	100.0

Continued over

Table 28 (cont)

	CM	CI	EG	ET	GH	KE	MG	MZ	NI	ZA	SE	SD	TZ	UG	ZM	ZW	All studied	Total, world
Wheat	M		4.2	1.0		0.7				0.5		1.2	0.3		0.1	0.1	8.1	100.0
	X		0.0	0.0		0.0				0.1		0.0	0.1		0.0	0.0	0.3	100.0

*Source:* Based on data from the Food and Agriculture Organization, FAOSTAT.

- a. Includes green and dry beans.
- b. Includes green and roasted coffee
- c. Includes cottonseed and cotton lint
- d. Includes groundnuts in shell and shelled
- e. Soybean complex includes soybeans, cake of soybeans and oil of soybean.