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Distortions to Agricultural Incentives in Madagascar

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		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
2		**Primary product quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
3		Crop area	Ha	FAOSTAT
4		Production (or number of livestock sold)	MT	Derived from Lightly processed output divided by conversion factor from FAOSTAT
5				
6				
7	**PART 1: QUANTITIES**	Change in stocks	MT	FAOSTAT
8		Own input use (feed)	MT	n.a.
9		Other input use (seed)	MT	n.a.
10		Input into food processing	MT	n.a.
11		Input into industrial use	MT	n.a.
12		Domestic final consumption of primary product	MT	n.a.
13				
14		**Processed products quantities (X, M or H good?)**		Lightly processed as involves only curing, drying, handling (no heavy transformation)
15		Conversion factor (fraction of weight of primary good)	proportion	getting 1kg of vanilla requires 4to 5kg of green vanilla
16		Imports	MT	n.a.
17		Exports	MT	Customs- Faostat(missing 61-62; 73-74)
18		Change in stocks	MT	We subtracted 2% of total processed production as domestic final consumption.
19				
20		Wholesale price for primary good (P_w)	LC/MT	Derived from producer price(missing 2003-2005)
21		Wholesale price for processed goods (P_{wp})	LC/MT	
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/$(I-O coefficient))	proportion	default assumption
23				
24	**PART 2: DOMESTIC VARIABLES**	Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	no subsidy,nor tax
25		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	
27		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	WB, Customs
28				
29		**To be filled in only if primary good is non-tradable**		
30		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/$(I-O coefficient))	proportion	default assumption
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36		**Primary product:**		
37		cif import price (P_m)	US$/MT	n.a.
38		fob export price (P_x)	US$/MT	n.a.
39		International reference price (P)	US$/MT	n.a.
40		International trading cost for imports (T_m)	proportion	n.a.
41		International trading cost for exports (T_x)	proportion	n.a.
42				professional source [Andreas Claude, ex-president of the GNIV(vanilla operator's associatio
43		**Processed products:**		EUV, from TRAINS (from 1990-2005)
44		cif import price (P_{mp})	US$/MT	n.a.
45		fob export price (P_{xp})	US$/MT	EUV, from FAOSTAT (from 1961-2000), EUV from Trains(from 2001-2005)
46		International reference price (P_p)	US$/MT	n.a.
47	**PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)**	International trading cost for imports (T_{mp})	proportion	n.a.
48		International trading cost for exports (T_{xp})	proportion	n.a.
49				
50		**Quality adjustment:**		EUV, FAOSTAT
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	high quality
55				
56		**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	(75-85)Cavagi in Razafimandimby, 86-93: approximation, the rest from Andreas Claude
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium, higher is proportion sold on parallel mkt
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET	**Fertilizers**		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	FAO(66-02), same as in DOROSH&al.(72-90)
	Markup on farm-gate price (transportation, storage, etc.)	proportion	assumption
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	using Cadot et all intermediation cost data for 55-2002
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	n.a.

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209		**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244		**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251	DIRECT RATE OF ASSISTANCE	Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179)]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179)]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179)]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258		Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259	NTBs	Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264		**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272	% OF NRA	NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	%	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	%	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		Importable	LC	150*162
298		Exportable	LC	150*163
299		Non tradable	LC	150*21/(1+184)
300		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		Importable	LC	12*158
304		Exportable	LC	12*159
305		Non tradable	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		Importable	LC	151*162
310		Exportable	LC	151*163
311		Non tradable	LC	151*21/(1+184)
312		Value of processed cons. from lines 309,310,311 according to trading statu	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.",129,IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
331				
332		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
333				
334		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
2		**Primary product quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
3		Crop area	Ha	
4		Production (or number of livestock sold)	MT	INSTAT-Faostat (1955 to 1960 assumed the same as in 1961)
5		Imports	MT	Faostat
6		Exports	MT	INSTAT-Faostat
7		Change in stocks	MT	Faostat
8		Own input use (feed)	MT	n.a.
9		Other input use (seed)	MT	n.a.
10		Input into food processing	MT	n.a.
11		Input into industrial use	MT	n.a.
12		Domestic final consumption of primary product	MT	computed: F6+F5-F4+F7
13				
14		**Processed products quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
15		Conversion factor (fraction of weight of primary good)	proportion	n.a.
16		Imports	MT	n.a.
17		Exports	MT	n.a.
18		Change in stocks	MT	n.a.
19				
20		Wholesale price for primary good (P_w)	LC/MT	Derived from Producer Price and applied margins
21		Wholesale price for processed goods (P_{wp})	LC/MT	n.a.
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1$/(I-O coefficient))	proportion	default assumption
23				
24		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	no subsidy,nor tax
25		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	(I replaced the n.a. with blanks to enable further calculation. Generally, iIf you don't have data available then leave the cells blank.)
27		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	n.a.
28				
29		**To be filled in only if primary good is non-tradable**		
30		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1$/(I-O coefficient))	proportion	n.a.
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	n.a.
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36		**Primary product:**		
37		cif import price (P_m)	US$/MT	n.a.
38		fob export price (P_x)	US$/MT	n.a.
39		International reference price (P)	US$/MT	IFS series-Cocoa Ghana
40		International trading cost for imports (T_m)	proportion	n.a.
41		International trading cost for exports (T_x)	proportion	Freight, assumed same as for rice
42				
43		**Processed products:**		
44		cif import price (P_{mp})	US$/MT	n.a.
45		fob export price (P_{xp})	US$/MT	n.a.
46		International reference price (P_p)	US$/MT	n.a.
47		International trading cost for imports (T_{mp})	proportion	n.a.
48		International trading cost for exports (T_{xp})	proportion	n.a.
49				
50		**Quality adjustment:**		
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	assumption
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	n.a.
55				
56		**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	n.a.
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	n.a.
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium, higher is proportion sold on parallel mkt
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 1: QUANTITIES

PART 2: DOMESTIC VARIABLES

PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)

PART 4: INTERMEDIATE INPUT MARKET	**Fertilizers**		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	Faostat
	Markup on farm-gate price (transportation, storage, etc.)	proportion	assumption
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	n.a.

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209		**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244		**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251	DIRECT RATE OF ASSISTANCE	Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179))]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179))]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179))]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258		Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259	NTBs	Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264		**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272	% OF NRA	NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	%	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	%	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		Importable	LC	150*162
298		Exportable	LC	150*163
299		Non tradable	LC	150*21/(1+184)
300		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		Importable	LC	12*158
304		Exportable	LC	12*159
305		Non tradable	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		Importable	LC	151*162
310		Exportable	LC	151*163
311		Non tradable	LC	151*21/(1+184)
312		Value of processed cons. from lines 309,310,311 according to trading statu	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.","n.a.",IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	l33<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	34<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+2
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	40<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+2
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
331				
332		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
333				
334		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
2		**Primary product quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
3		Crop area	Ha	FAOSTAT
4		Production (or number of livestock sold)	MT	INSTAT-consistent with FAOSTAT (2004 and 2005 na but assumed as same as 2003)
5		Imports	MT	INSTAT-consistent with FAOSTAT
6		Exports	MT	INSTAT-consistent with FAOSTAT
7	**PART 1: QUANTITIES**	Change in stocks	MT	FAOSTAT
8		Own input use (feed)	MT	n.a.
9		Other input use (seed)	MT	n.a.
10		Input into food processing	MT	n.a.
11		Input into industrial use	MT	n.a.
12		Domestic final consumption of primary product	MT	computed: F6+F5-F4+F7
13				
14		**Processed products quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
15		Conversion factor (fraction of weight of primary good)	proportion	n.a.
16		Imports	MT	n.a.
17		Exports	MT	n.a.
18		Change in stocks	MT	n.a.
19				
20		Wholesale price for primary good (P_w)	LC/MT	FAOSTAT
21		Wholesale price for processed goods (P_{wp})	LC/MT	n.a.
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/$(I-O coefficient))	proportion	default assumption
23				
24		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	no subsidy,nor tax
25	**PART 2: DOMESTIC VARIABLES**	Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	
27		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	n.a.
28				
29		**To be filled in only if primary good is non-tradable**		
30		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/$(I-O coefficient))	proportion	n.a.
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	n.a.
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36		**Primary product:**		
37		cif import price (P_m)	US$/MT	n.a.
38		fob export price (P_x)	US$/MT	Customs, EUV (missing 61-62)
39		International reference price (P)	US$/MT	n.a.
40		International trading cost for imports (T_m)	proportion	n.a.
41		International trading cost for exports (T_x)	proportion	Standard Freight costs
42				
43		**Processed products:**		
44		cif import price (P_{mp})	US$/MT	n.a.
45		fob export price (P_{xp})	US$/MT	n.a.
46		International reference price (P_p)	US$/MT	n.a.
47		International trading cost for imports (T_{mp})	proportion	n.a.
48		International trading cost for exports (T_{xp})	proportion	n.a.
49				
50		**Quality adjustment:**		
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	assumption
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	n.a.
55				
56		**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	Customs(00-05)
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	n.a.
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	n.a.
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium, higher is proportion sold on parallel mkt
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)

PART 4: INTERMEDIATE INPUT MARKET	**Fertilizers**		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	Faostat plus margins
	Markup on farm-gate price (transportation, storage, etc.)	proportion	derived from CAVAGi-BDE in Razafimandimby
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	Derived
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	n.a.

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244	DIRECT RATE OF ASSISTANCE	**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251		Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179))]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179))]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179))]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258	NTBs	Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264	% OF NRA	**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	%	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	%	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		Importable	LC	150*162
298		Exportable	LC	150*163
299		Non tradable	LC	150*21/(1+184)
300		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		Importable	LC	12*158
304		Exportable	LC	12*159
305		Non tradable	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		Importable	LC	151*162
310		Exportable	LC	151*163
311		Non tradable	LC	151*21/(1+184)
312		Value of processed cons. from lines 309,310,311 according to trading statu	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.","n.a.",IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
331				
332		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
333				
334		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

1		**INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1:** Exogenous data	**Unit**	**Source / Formulae**
2	**PART 1: QUANTITIES**	**Primary product quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
3		Crop area	Ha	FAOSTAT
4		Production (or number of livestock sold)	MT	INSTAT-consistent with FAOSTAT(2003-05, assumed to be same as 2003)
5		Imports	MT	
6		Exports	MT	INSTAT-consistent with FAOSTAT
7		Change in stocks	MT	FAOSTAT (in blue, introduced just to avoid having negative domestic final consumption).
8		Own input use (feed)	MT	n.a.
9		Other input use (seed)	MT	n.a.
10		Input into food processing	MT	n.a.
11		Input into industrial use	MT	n.a.
12		Domestic final consumption of primary product	MT	computed: F6+F5-F4+F7 (in italics, need to check)
13				
14		**Processed products quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
15		Conversion factor (fraction of weight of primary good)	proportion	n.a.
16		Imports	MT	n.a.
17		Exports	MT	n.a.
18		Change in stocks	MT	n.a.
19				
20	**PART 2: DOMESTIC VARIABLES**	Wholesale price for primary good (P_w)	LC/MT	FAOSTAT plus margins
21		Wholesale price for processed goods (P_{wp})	LC/MT	n.a. considering only primary cloves
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/$(I-O coefficient))	proportion	1/i-o
23				
24		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	no subsidy,nor tax
25		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	
27		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	n.a.
28				
29		**To be filled in only if primary good is non-tradable**		
30		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/$(I-O coefficient))	proportion	n.a.
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	n.a.
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36	**PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)**	**Primary product:**		
37		cif import price (P_m)	US$/MT	n.a.
38		fob export price (P_x)	US$/MT	(75-85), from Razafimandimby, the rest from Customs EUV adjusted with 0.165
39		International reference price (P)	US$/MT	
40		International trading cost for imports (T_m)	proportion	n.a.
41		International trading cost for exports (T_x)	proportion	International Grains Council (average prop in 2003, 2006 applied throughout years)
42				
43		**Processed products:**		
44		cif import price (P_{mp})	US$/MT	n.a.
45		fob export price (P_{xp})	US$/MT	n.a.
46		International reference price (P_p)	US$/MT	n.a.
47		International trading cost for imports (T_{mp})	proportion	n.a.
48		International trading cost for exports (T_{xp})	proportion	n.a.
49				
50		**Quality adjustment:**		
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	assumption
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	n.a.
55				
56		**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	cavagi-BDE (1975-1986), drawn from Razafimandimby.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	n.a.
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	n.a.
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium, higher is proportion sold on parallel mkt
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

	Fertilizers		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.

PART 4: INTERMEDIATE INPUT MARKET

	Farm-gate selling price (P_f)	LC/MT	INSTAT-FAO-DOROSH&al., CAVAGi-BDE in Razafimandimby
	Markup on farm-gate price (transportation, storage, etc.)	proportion	Cavagi-BDE (1975-1986), drawn from Razafimandimby and Dorosh et al.
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20 (2003-2005 n.a)
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	n.a.

PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209		**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244		**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251	DIRECT RATE OF ASSISTANCE	Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179))]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179))]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179))]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258		Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259	NTBs	Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264		**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272	% OF NRA	NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	%	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	%	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		Importable	LC	150*162
298		Exportable	LC	150*163
299		Non tradable	LC	150*21/(1+184)
300		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		Importable	LC	12*158
304		Exportable	LC	12*159
305		Non tradable	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		Importable	LC	151*162
310		Exportable	LC	151*163
311		Non tradable	LC	151*21/(1+184)
312		Value of processed cons. from lines 309,310,311 according to trading statu	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.","n.a.",IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
331				
332		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
333				
334		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
		Primary product quantities (X, M or H good?)		GREEN COFFEE
		Crop area	Ha	FAOSTAT
		Production (or number of livestock sold)	MT	INSTAT-consistent with FAOSTAT
		Imports	MT	INSTAT-consistent with FAOSTAT
		Exports	MT	INSTAT-consistent with FAOSTAT
	PART 1: QUANTITIES	Change in stocks	MT	FAOSTAT
		Own input use (feed)	MT	n.a.
		Other input use (seed)	MT	n.a.
		Input into food processing	MT	n.a.
		Input into industrial use	MT	n.a.
		Domestic final consumption of primary product	MT	computed: F6+F5-F4
		Processed products quantities (X, M or H good?)		Please fill in X, M or H in the cells on the right
		Conversion factor (fraction of weight of primary good)	proportion	n.a.
		Imports	MT	n.a.
		Exports	MT	n.a.
		Change in stocks	MT	n.a.
		Wholesale price for primary good (P_w)	LC/MT	FAOSTAT, Dorosh et al.
		Wholesale price for processed goods (P_{wp})	LC/MT	considering only green coffee
		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/$(I-O coefficient))	proportion	1/i-o
		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	no subsidy,nor tax
	PART 2: DOMESTIC VARIABLES	Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	
		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	n.a.
		To be filled in only if primary good is non-tradable		
		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/$(I-O coefficient))	proportion	n.a.
		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	n.a.
		To be filled in only if processed goods are non-tradable		
		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
		Primary product:		
		cif import price (P_m)	US$/MT	n.a.
		fob export price (P_x)	US$/MT	n.a.
		International reference price (P)	US$/MT	IFS (Robusta)+ WB
		International trading cost for imports (T_m)	proportion	n.a.
		International trading cost for exports (T_x)	proportion	International Grains Council (average prop in 2003, 2006 applied throughout years)
		Processed products:		
		cif import price (P_{mp})	US$/MT	n.a.
		fob export price (P_{xp})	US$/MT	n.a.
		International reference price (P_p)	US$/MT	n.a.
	PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)	International trading cost for imports (T_{mp})	proportion	n.a.
		International trading cost for exports (T_{xp})	proportion	n.a.
		Quality adjustment:		
		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
		Primary good - Quality adjustment for exports (q_x)	proportion	assumption
		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
		Processed goods - Quality adjustment for exports (q_{xp})	proportion	n.a.
		Trade subsidies and taxes		
		Primary good - Import tariff ($t_m < 0$ if a subsidy)	proportion	n.a.
		Primary good - Export subsidy ($s_x < 0$ if a tax)	proportion	cavagi-BDE (1975-1985), drawn from Razafimandimby.
		Processed goods - Import tariff ($t_{mp} < 0$ if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
		Processed goods - Export subsidy ($s_{xp} < 0$ if a tax)	proportion	n.a.
		Exchange rate		
		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium, higher is proportion sold on parallel mkt
		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET			
	Fertilizers		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS			
	Farm-gate selling price (P_f)	LC/MT	Producer Price-FAO (66-01)
	Markup on farm-gate price (transportation, storage, etc.)	proportion	
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	n.a.

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209		**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244		**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251	DIRECT RATE OF ASSISTANCE	Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179))]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179))]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179))]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258		Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259	NTBs	Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264		**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272	% OF NRA	NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	%	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	%	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		Importable	LC	150*162
298		Exportable	LC	150*163
299		Non tradable	LC	150*21/(1+184)
300		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		Importable	LC	12*158
304		Exportable	LC	12*159
305		Non tradable	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		Importable	LC	151*162
310		Exportable	LC	151*163
311		Non tradable	LC	151*21/(1+184)
312		Value of processed cons. from lines 309,310,311 according to trading statu	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.","n.a.",IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
331				
332		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
333				
334		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
2		**Primary product quantities (X, M or H good?)**		Sugar cane is nontradable though we found 3 obs of exportation
3		Crop area	Ha	n.a.
4		Production (or number of livestock sold)	MT	FAOSTAT, INSTAT
5		Imports	MT	n.a
6		Exports	MT	FAOSTAT, INSTAT
7		Change in stocks	MT	n.a.=assumed to be zero
8		Own input use (feed)	MT	FAOSTAT
9		Other input use (seed)	MT	FAOSTAT
10		Input into food processing	MT	FAOSTAT
11		Input into industrial use	MT	n.a.=assumed to be zero
12	**PART 1: QUANTITIES**	Domestic final consumption of primary product	MT	computed
13				
14		**Processed products quantities (X, M or H good?)**		for 1955 to 1960 and for 2004-2005, though data not available, trade status is assumed X
15		Conversion factor (fraction of weight of primary good)	proportion	CMCS(Centre Malgache de la Canne et du Sucre)
16		Imports	MT	Faostat 61-02 (sugar, refined equivalent)
17		Exports	MT	Faostat (sugar, refined equivalent)(Faostat data not matching w Local sources data!)
18		Change in stocks	MT	n.a.
19				
20		Wholesale price for primary good (P_w)	LC/MT	CMCS, FAOSTAT
21		Wholesale price for processed goods (P_{wp})	LC/MT	CMCS(94-02), the rest deducted using an average markup of 2000%
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/(\text{I-O coefficient})$)	proportion	1/i-o
23				
24		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
25		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	n.a.
27	**PART 2: DOMESTIC VARIABLES**	Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	WB, Customs
28				
29		**To be filled in only if primary good is non-tradable**		
30		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/(\text{I-O coefficient})$)	proportion	1/(I-O coef)
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36		**Primary product:**		
37		cif import price (P_m)	US$/MT	
38		fob export price (P_x)	US$/MT	
39		International reference price (P)	US$/MT	
40		International trading cost for imports (T_m)	proportion	
41		International trading cost for exports (T_x)	proportion	
42				
43		**Processed products:**		
44		cif import price (P_{mp})	US$/MT	n.a.
45		fob export price (P_{xp})	US$/MT	n.a.
46		International reference price (P_p)	US$/MT	philipines except 73-85
47		International trading cost for imports (T_{mp})	proportion	Freight, assumed same as for rice
48		International trading cost for exports (T_{xp})	proportion	Freight, assumed same as for rice
49				
50		**Quality adjustment:**		
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	
55				Assumption, refined imported sugar is very popular and considered as of high quality
56	**PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)**	**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	n.a.
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium,then higher is proportion sold on parallel mkt
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET			
	Fertilizers		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.

PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS			
	Farm-gate selling price (P_f)	LC/MT	CMCS(Centre Malgache de la Canne et du Sucre), Faostat
	Markup on farm-gate price (transportation, storage, etc.)	proportion	Assumption as usually factory is in the same area as plantation
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	CMCS(94-02), the rest deducted using an average markup of 2000%
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	CMCS(Centre Malgache de la Canne et du Sucre)

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	**MT**	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	**MT**	8+9+10+11+12
144				
145		% of production exported in primary farm	**%**	100*6/4
146		% of primary production that is processed	**%**	100*10/4
147		% of primary production for industrial use	**%**	100*11/4
148		% of domestic utilization imported	**%**	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	**MT**	10*15
151		domestic final consumption of processed product	**MT**	150+16-17-18
152				
153		% processed output exported	**%**	100*17/150
154		% of domestic processed consumption imported in processed form	**%**	100*16/151
155		% self-sufficiency overall	**%**	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		**Importable**	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		**Exportable**	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		**Importable**	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		**Exportable**	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		**If primary is importable**	**proportion**	(1+24)*(1+22*(20/158-1))-1
167		**If primary is exportable**	**proportion**	(1+24)*(1+22*(20/159-1))-1
168		**If primary is non tradable and processed is importable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		**If primary is non tradable and processed is exportable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		**If primary is non tradable and processed is non tradable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		**If primary is non tradable and no processed good exists**	**proportion**	31*((1+24)*(1-26)-1)
172		**Selecting NRA_f** between lines 166 and 171 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
173		**NRA: Primary good**		
174		**If primary is importable**	**proportion**	20/158-1
175		**If primary is exportable**	**proportion**	20/159-1
176		**If primary is non tradable and processed is importable**	**proportion**	30*((1+25)*21/162-1)
177		**If primary is non tradable and processed is exportable**	**proportion**	30*((1+25)*21/163-1)
178		**If primary is non tradable and processed is non tradable**	**proportion**	30*34*((1+25)*(1-27)-1)
179		**Selecting NRA between lines 174 and 178 according to trading status**	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
180				
181		**NRA_p: Processed goods**		
182		**Importable**	**proportion**	(1+25)*21/162-1
183		**Exportable**	**proportion**	(1+25)*21/163-1
184		**Non tradable**	**proportion**	34*((1+25)*(1-27)-1)
185		**Selecting NRA_p** between lines 182 and 184 according to trading status	**proportion**	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		**If primary is importable**	**proportion**	174
189		**If primary is exportable**	**proportion**	175
190		**If primary is non tradable and processed is importable**	**proportion**	176
191		**If primary is non tradable and processed is exportable**	**proportion**	177
192		**If primary is non tradable and processed is non tradable**	**proportion**	178
193		**S**electing CTE_p between lines 188 and 192 according to trading status	**proportion**	179
194				
195		**CTE_c: Consumers, primary good**		
196		**If primary is importable**	**proportion**	(1+26)*20/158-1
197		**If primary is exportable**	**proportion**	(1+26)*20/159-1
198		**If primary is non tradable and processed is importable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		**If primary is non tradable and processed is exportable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		**If primary is non tradable and processed is non tradable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		**If primary is non tradable and no processed good exists**	**proportion**	(1-31)*((1-24)*(1+26)-1)
202		**S**electing CTE_c between lines 196 and 201 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
203		**CTE_{cp}: Consumers, processed goods**		
204		**Importable**	**proportion**	(1+27)*21/162-1
205		**Exportable**	**proportion**	(1+27)*21/163-1
206		**Non tradable**	**proportion**	(1-34)*((1-25)*(1+27)-1)
207		**S**electing CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209		**CTE_f: Fertilizers**		
210		Undistorted international price if importable	**LC/MT**	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	**LC/MT**	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		**Importable**	**proportion**	(1+81)*75/210-1
213		**Exportable**	**proportion**	(1+81)*75/211-1
214		**Non tradable**	**proportion**	83*((1-82)*(1+81)-1)
215		**CTE_f** proportion fo farmers	**proportion**	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	**LC/MT**	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	**LC/MT**	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		**Importable**	**proportion**	(1+93)*87/218-1
221		**Exportable**	**proportion**	(1+93)*87/219-1
222		**Non tradable**	**proportion**	95*((1-94)*(1+93)-1)
223		**CTE_f** proportion fo farmers	**proportion**	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		**CTE_f** proportion fo farmers	**proportion**	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		**CTE_f** proportion fo farmers	**proportion**	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	**LC/MT**	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	**LC/MT**	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		**Importable**	**proportion**	(1+118)*112/232-1
235		**Exportable**	**proportion**	(1+118)*112/233-1
236		**Non tradable**	**proportion**	120*((1-119)*(1+118)-1)
237		**CTE_f** proportion fo farmers	**proportion**	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		**CTE_f** proportion fo farmers	**proportion**	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	**proportion**	215+223+226+229+237
243				
244		**DRA_f: Farm sector**		
245		**If primary is importable**	**proportion**	166-242
246		**If primary is exportable**	**proportion**	167-242
247		**If primary is non tradable and processed is importable**	**proportion**	168-242
248		**If primary is non tradable and processed is exportable**	**proportion**	169-242
249		**If primary is non tradable and processed is non tradable**	**proportion**	170-242
250		**If primary is non tradable and no processed good exists**	**proportion**	171-242
251		**S**electing DRA_f between lines 245 and 250 according to trading status	**proportion**	172-242
252		**DRA_p: Processing sector**		
253		**Importable**	**proportion**	182-193*([either 158 or 159 or (20/(1+179)]/15)/162
254		**Exportable**	**proportion**	183-193*([either 158 or 159 or (20/(1+179)]/15)/163
255		**Non tradable**	**proportion**	184-193*([either 158 or 159 or (20/(1+179)]/15)/(21/(1+184))
256		**S**electing DRA_p between lines 253 and 255 according to trading status	**proportion**	IF(14="M",253, IF(14="X",254,255))
257				
258		Tariff equivalent of NTBs on importable primary product	**proportion**	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	**proportion**	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	**proportion**	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	**proportion**	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264		**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	**%**	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		**Import tariffs (if importable)**	**%**	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		**Production subsidies (if importable)**	**%**	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		**NTBs (if importable)**	**%**	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	**%**	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		**Export subsidies (if exportable)**	**%**	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		**Production subsidies (if exportable)**	**%**	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		**NTBs (if exportable)**	**%**	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	**%**	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		**Import tariffs (if importable)**	**%**	59/(((69-71)/71)+25+261+59)*100
277		**Production subsidies (if importable)**	**%**	25/(((69-71)/71)+25+261+59)*100
278		**NTBs (if importable)**	**%**	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	**%**	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		**Export subsidies (if exportable)**	**%**	60/(-((71-70)/71)+25-262+60)*100
281		**Production subsidies (if exportable)**	**%**	25/(-((71-70)/71)+25-262+60)*100

CONSUMER TAX EQUIVALENT (Intermediate inputs)

DIRECT RATE OF ASSISTANCE

NTBs

% OF NRA

282	**NTBs (if exportable)**	**%**	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	**%**	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	**%**	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		**Importable**	LC	4*158
292		**Exportable**	LC	4*159
293		**Non tradable**	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		**Value of primary prod.** from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		**Importable**	LC	150*162
298		**Exportable**	LC	150*163
299		**Non tradable**	LC	150*21/(1+184)
300		**Value of primary prod.** from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		**Importable**	LC	12*158
304		**Exportable**	LC	12*159
305		**Non tradable**	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		**Value of primary cons.** from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		**Importable**	LC	151*162
310		**Exportable**	LC	151*163
311		**Non tradable**	LC	151*21/(1+184)
312		**Value of processed cons.** from lines 309,310,311 according to trading sta	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.",129,IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	**%**	100*315/172
331				
332		**Domestic margins and distortions to primary good (P_f / P_{fob})**	**proportion**	314/159
333				
334		**Exchange rate distortions to import (in overall economy)**	**proportion**	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
		Primary product quantities (X, M or H good?)		Sugar cane is nontradable though we found 3 obs of exportation
		Crop area	Ha	n.a.
		Production (or number of livestock sold)	MT	FAOSTAT, INSTAT
		Imports	MT	n.a
		Exports	MT	FAOSTAT, INSTAT
	PART 1: QUANTITIES	Change in stocks	MT	n.a.=assumed to be zero
		Own input use (feed)	MT	FAOSTAT
		Other input use (seed)	MT	FAOSTAT
		Input into food processing	MT	FAOSTAT
		Input into industrial use	MT	n.a.=assumed to be zero
		Domestic final consumption of primary product	MT	computed
		Processed products quantities (X, M or H good?)		for 1955 to 1960 and for 2004-2005, though data not available, trade status is assumed X
		Conversion factor (fraction of weight of primary good)	proportion	CMCS(Centre Malgache de la Canne et du Sucre)
		Imports	MT	Faostat 61-02 (sugar, refined equivalent)
		Exports	MT	Faostat (sugar, refined equivalent)(Faostat data not matching w Local sources data!)
		Change in stocks	MT	n.a.
		Wholesale price for primary good (P_w)	LC/MT	CMCS, FAOSTAT
		Wholesale price for processed goods (P_{wp})	LC/MT	CMCS(94-02), the rest deducted using an average markup of 2000%
	PART 2: DOMESTIC VARIABLES	Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/(\text{I-O coefficient})$)	proportion	1/i-o
		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	n.a.
		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	WB, Customs
		To be filled in only if primary good is non-tradable		
		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/(\text{I-O coefficient})$)	proportion	1/(I-O coef)
		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
		To be filled in only if processed goods are non-tradable		
		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
		Primary product:		
		cif import price (P_m)	US$/MT	
		fob export price (P_x)	US$/MT	
		International reference price (P)	US$/MT	
		International trading cost for imports (T_m)	proportion	
		International trading cost for exports (T_x)	proportion	
		Processed products:		
		cif import price (P_{mp})	US$/MT	n.a.
		fob export price (P_{xp})	US$/MT	n.a.
		International reference price (P_p)	US$/MT	philipines except 73-85
	PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)	International trading cost for imports (T_{mp})	proportion	Freight, assumed same as for rice
		International trading cost for exports (T_{xp})	proportion	Freight, assumed same as for rice
		Quality adjustment:		
		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
		Processed goods - Quality adjustment for imports (q_{mp})	proportion	
		Processed goods - Quality adjustment for exports (q_{xp})	proportion	
		Trade subsidies and taxes		
		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	n.a.
		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	
		Exchange rate		
		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium,then higher is proportion sold on parallel mkt
		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET			
	Fertilizers		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.

PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS			
	Farm-gate selling price (P_f)	LC/MT	CMCS(Centre Malgache de la Canne et du Sucre), Faostat
	Markup on farm-gate price (transportation, storage, etc.)	proportion	Assumption as usually factory is in the same area as plantation
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	CMCS(94-02), the rest deducted using an average markup of 2000%
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	CMCS(Centre Malgache de la Canne et du Sucre)

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	**MT**	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	**MT**	8+9+10+11+12
144				
145		% of production exported in primary farm	**%**	100*6/4
146		% of primary production that is processed	**%**	100*10/4
147		% of primary production for industrial use	**%**	100*11/4
148		% of domestic utilization imported	**%**	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	**MT**	10*15
151		domestic final consumption of processed product	**MT**	150+16-17-18
152				
153		% processed output exported	**%**	100*17/150
154		% of domestic processed consumption imported in processed form	**%**	100*16/151
155		% self-sufficiency overall	**%**	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		**Importable**	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		**Exportable**	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		**Importable**	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		**Exportable**	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		**If primary is importable**	**proportion**	(1+24)*(1+22*(20/158-1))-1
167		**If primary is exportable**	**proportion**	(1+24)*(1+22*(20/159-1))-1
168		**If primary is non tradable and processed is importable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		**If primary is non tradable and processed is exportable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		**If primary is non tradable and processed is non tradable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		**If primary is non tradable and no processed good exists**	**proportion**	31*((1+24)*(1-26)-1)
172		**Selecting NRA_f** between lines 166 and 171 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
173		**NRA: Primary good**		
174		**If primary is importable**	**proportion**	20/158-1
175		**If primary is exportable**	**proportion**	20/159-1
176		**If primary is non tradable and processed is importable**	**proportion**	30*((1+25)*21/162-1)
177		**If primary is non tradable and processed is exportable**	**proportion**	30*((1+25)*21/163-1)
178		**If primary is non tradable and processed is non tradable**	**proportion**	30*34*((1+25)*(1-27)-1)
179		**Selecting NRA between lines 174 and 178 according to trading status**	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
180				
181		**NRA_p: Processed goods**		
182		**Importable**	**proportion**	(1+25)*21/162-1
183		**Exportable**	**proportion**	(1+25)*21/163-1
184		**Non tradable**	**proportion**	34*((1+25)*(1-27)-1)
185		**Selecting NRA_p** between lines 182 and 184 according to trading status	**proportion**	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		**If primary is importable**	**proportion**	174
189		**If primary is exportable**	**proportion**	175
190		**If primary is non tradable and processed is importable**	**proportion**	176
191		**If primary is non tradable and processed is exportable**	**proportion**	177
192		**If primary is non tradable and processed is non tradable**	**proportion**	178
193		**S**electing CTE_p between lines 188 and 192 according to trading status	**proportion**	179
194				
195		**CTE_c: Consumers, primary good**		
196		**If primary is importable**	**proportion**	(1+26)*20/158-1
197		**If primary is exportable**	**proportion**	(1+26)*20/159-1
198		**If primary is non tradable and processed is importable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		**If primary is non tradable and processed is exportable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		**If primary is non tradable and processed is non tradable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		**If primary is non tradable and no processed good exists**	**proportion**	(1-31)*((1-24)*(1+26)-1)
202		**S**electing CTE_c between lines 196 and 201 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
203		**CTE_{cp}: Consumers, processed goods**		
204		**Importable**	**proportion**	(1+27)*21/162-1
205		**Exportable**	**proportion**	(1+27)*21/163-1
206		**Non tradable**	**proportion**	(1-34)*((1-25)*(1+27)-1)
207		**S**electing CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209		**CTE_f: Fertilizers**		
210		Undistorted international price if importable	**LC/MT**	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	**LC/MT**	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		**Importable**	**proportion**	(1+81)*75/210-1
213		**Exportable**	**proportion**	(1+81)*75/211-1
214		**Non tradable**	**proportion**	83*((1-82)*(1+81)-1)
215		**CTE_f** proportion fo farmers	**proportion**	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	**LC/MT**	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	**LC/MT**	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		**Importable**	**proportion**	(1+93)*87/218-1
221		**Exportable**	**proportion**	(1+93)*87/219-1
222		**Non tradable**	**proportion**	95*((1-94)*(1+93)-1)
223		**CTE_f** proportion fo farmers	**proportion**	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		**CTE_f** proportion fo farmers	**proportion**	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		**CTE_f** proportion fo farmers	**proportion**	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	**LC/MT**	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	**LC/MT**	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		**Importable**	**proportion**	(1+118)*112/232-1
235		**Exportable**	**proportion**	(1+118)*112/233-1
236		**Non tradable**	**proportion**	120*((1-119)*(1+118)-1)
237		**CTE_f** proportion fo farmers	**proportion**	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		**CTE_f** proportion fo farmers	**proportion**	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	**proportion**	215+223+226+229+237
243				
244		**DRA_f: Farm sector**		
245		**If primary is importable**	**proportion**	166-242
246		**If primary is exportable**	**proportion**	167-242
247		**If primary is non tradable and processed is importable**	**proportion**	168-242
248		**If primary is non tradable and processed is exportable**	**proportion**	169-242
249		**If primary is non tradable and processed is non tradable**	**proportion**	170-242
250		**If primary is non tradable and no processed good exists**	**proportion**	171-242
251		**S**electing DRA_f between lines 245 and 250 according to trading status	**proportion**	172-242
252		**DRA_p: Processing sector**		
253		**Importable**	**proportion**	182-193*([either 158 or 159 or (20/(1+179)]/15)/162
254		**Exportable**	**proportion**	183-193*([either 158 or 159 or (20/(1+179)]/15)/163
255		**Non tradable**	**proportion**	184-193*([either 158 or 159 or (20/(1+179)]/15)/(21/(1+184))
256		**S**electing DRA_p between lines 253 and 255 according to trading status	**proportion**	IF(14="M",253, IF(14="X",254,255))
257				
258		Tariff equivalent of NTBs on importable primary product	**proportion**	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	**proportion**	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	**proportion**	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	**proportion**	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264		**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	**%**	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		**Import tariffs (if importable)**	**%**	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		**Production subsidies (if importable)**	**%**	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		**NTBs (if importable)**	**%**	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	**%**	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		**Export subsidies (if exportable)**	**%**	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		**Production subsidies (if exportable)**	**%**	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		**NTBs (if exportable)**	**%**	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	**%**	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		**Import tariffs (if importable)**	**%**	59/(((69-71)/71)+25+261+59)*100
277		**Production subsidies (if importable)**	**%**	25/(((69-71)/71)+25+261+59)*100
278		**NTBs (if importable)**	**%**	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	**%**	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		**Export subsidies (if exportable)**	**%**	60/(-((71-70)/71)+25-262+60)*100
281		**Production subsidies (if exportable)**	**%**	25/(-((71-70)/71)+25-262+60)*100

CONSUMER TAX EQUIVALENT (Intermediate inputs)

DIRECT RATE OF ASSISTANCE

NTBs

% OF NRA

282	**NTBs (if exportable)**	**%**	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	**%**	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	**%**	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		**Importable**	LC	4*158
292		**Exportable**	LC	4*159
293		**Non tradable**	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		**Value of primary prod.** from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		**Importable**	LC	150*162
298		**Exportable**	LC	150*163
299		**Non tradable**	LC	150*21/(1+184)
300		**Value of primary prod.** from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		**Importable**	LC	12*158
304		**Exportable**	LC	12*159
305		**Non tradable**	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		**Value of primary cons.** from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		**Importable**	LC	151*162
310		**Exportable**	LC	151*163
311		**Non tradable**	LC	151*21/(1+184)
312		**Value of processed cons.** from lines 309,310,311 according to trading sta	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.",129,IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	**%**	100*315/172
331				
332		**Domestic margins and distortions to primary good (P_f / P_{fob})**	**proportion**	314/159
333				
334		**Exchange rate distortions to import (in overall economy)**	**proportion**	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
		Primary product quantities (X, M or H good?)		Sugar cane is nontradable though we found 3 obs of exportation
		Crop area	Ha	n.a.
		Production (or number of livestock sold)	MT	FAOSTAT, INSTAT
		Imports	MT	n.a
		Exports	MT	FAOSTAT, INSTAT
	PART 1: QUANTITIES	Change in stocks	MT	n.a.=assumed to be zero
		Own input use (feed)	MT	FAOSTAT
		Other input use (seed)	MT	FAOSTAT
		Input into food processing	MT	FAOSTAT
		Input into industrial use	MT	n.a.=assumed to be zero
		Domestic final consumption of primary product	MT	computed
		Processed products quantities (X, M or H good?)		for 1955 to 1960 and 2004-2005, though data not available, trade status is assumed X,
		Conversion factor (fraction of weight of primary good)	proportion	CMCS(Centre Malgache de la Canne et du Sucre)
		Imports	MT	Faostat 61-02 (sugar, refined equivalent)
		Exports	MT	Faostat (sugar, refined equivalent)(Faostat data not matching w Local sources data!)
		Change in stocks	MT	n.a.
		Wholesale price for primary good (P_w)	LC/MT	CMCS, FAOSTAT
		Wholesale price for processed goods (P_{wp})	LC/MT	CMCS(94-02), the rest deducted using an average markup of 2000%
	PART 2: DOMESTIC VARIABLES	Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/(\text{I-O coefficient})$)	proportion	1/i-o
		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	n.a.
		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	WB, Customs
		To be filled in only if primary good is non-tradable		
		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/(\text{I-O coefficient})$)	proportion	1/(I-O coef)
		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
		To be filled in only if processed goods are non-tradable		
		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
		Primary product:		
		cif import price (P_m)	US$/MT	
		fob export price (P_x)	US$/MT	
		International reference price (P)	US$/MT	
		International trading cost for imports (T_m)	proportion	
		International trading cost for exports (T_x)	proportion	
		Processed products:		
		cif import price (P_{mp})	US$/MT	n.a.
		fob export price (P_{xp})	US$/MT	n.a.
		International reference price (P_p)	US$/MT	philipines (IFS) except 73-85
	PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)	International trading cost for imports (T_{mp})	proportion	Freight, assumed same as for rice
		International trading cost for exports (T_{xp})	proportion	Freight, assumed same as for rice
		Quality adjustment:		
		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
		Processed goods - Quality adjustment for exports (q_{xp})	proportion	n.a.
		Trade subsidies and taxes		
		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	n.a.
		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	Customs(00-05), 55-99(guestimated)
		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	No available data
		Exchange rate		
		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium,then higher is proportion sold on parallel mkt
		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET	**Fertilizers**		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	CMCS(Centre Malgache de la Canne et du Sucre), Faostat
	Markup on farm-gate price (transportation, storage, etc.)	proportion	Assumption as usually factory is in the same area as plantation
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		CMCS(94-02), the rest deducted using an average markup of 2000%
	Markup on primary wholesale price (processing costs, etc.)	proportion	
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	CMCS(Centre Malgache de la Canne et du Sucre)

Section 2
(Endogenous data)

PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	**MT**	4+5-6-7
	Domestic utilization (line 142 has to equal line 143):	**MT**	8+9+10+11+12
	% of production exported in primary farm	**%**	100*6/4
	% of primary production that is processed	**%**	100*10/4
	% of primary production for industrial use	**%**	100*11/4
	% of domestic utilization imported	**%**	100*5/142
PROCESSED PRODUCTS	processed output	**MT**	10*15
	domestic final consumption of processed product	**MT**	150+16-17-18
	% processed output exported	**%**	100*17/150
	% of domestic processed consumption imported in processed form	**%**	100*16/151
	% self-sufficiency overall	**%**	100*15*4/(15*142+16-17-18)
UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
	Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
	Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
	Undistorted international price - processed products (P_{ip})		
	Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
	Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
	If primary is importable	**proportion**	(1+24)*(1+22*(20/158-1))-1
	If primary is exportable	**proportion**	(1+24)*(1+22*(20/159-1))-1
	If primary is non tradable and processed is importable	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
	If primary is non tradable and processed is exportable	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
	If primary is non tradable and processed is non tradable	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
	If primary is non tradable and no processed good exists	**proportion**	31*((1+24)*(1-26)-1)
	Selecting NRA_f between lines 166 and 171 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
	NRA: Primary good		
	If primary is importable	**proportion**	20/158-1
	If primary is exportable	**proportion**	20/159-1
	If primary is non tradable and processed is importable	**proportion**	30*((1+25)*21/162-1)
	If primary is non tradable and processed is exportable	**proportion**	30*((1+25)*21/163-1)
	If primary is non tradable and processed is non tradable	**proportion**	30*34*((1+25)*(1-27)-1)
	Selecting NRA between lines 174 and 178 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
	NRA_p: Processed goods		
	Importable	**proportion**	(1+25)*21/162-1
	Exportable	**proportion**	(1+25)*21/163-1
	Non tradable	**proportion**	34*((1+25)*(1-27)-1)
	Selecting NRA_p between lines 182 and 184 according to trading status	**proportion**	IF(14="M",182, IF(14="X",183,184))
CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
	If primary is importable	**proportion**	174
	If primary is exportable	**proportion**	175
	If primary is non tradable and processed is importable	**proportion**	176
	If primary is non tradable and processed is exportable	**proportion**	177
	If primary is non tradable and processed is non tradable	**proportion**	178
	Selecting CTE_p between lines 188 and 192 according to trading status	**proportion**	179
	CTE_c: Consumers, primary good		
	If primary is importable	**proportion**	(1+26)*20/158-1
	If primary is exportable	**proportion**	(1+26)*20/159-1
	If primary is non tradable and processed is importable	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
	If primary is non tradable and processed is exportable	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
	If primary is non tradable and processed is non tradable	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
	If primary is non tradable and no processed good exists	**proportion**	(1-31)*((1-24)*(1+26)-1)
	Selecting CTE_c between lines 196 and 201 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
	CTE_{cp}: Consumers, processed goods		
	Importable	**proportion**	(1+27)*21/162-1
	Exportable	**proportion**	(1+27)*21/163-1
	Non tradable	**proportion**	(1-34)*((1-25)*(1+27)-1)
	Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))

209		**CTE_f: Fertilizers**		
210		Undistorted international price if importable	**LC/MT**	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	**LC/MT**	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		**Importable**	**proportion**	(1+81)*75/210-1
213		**Exportable**	**proportion**	(1+81)*75/211-1
214		**Non tradable**	**proportion**	83*((1-82)*(1+81)-1)
215		**CTE_f** proportion fo farmers	**proportion**	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	**LC/MT**	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	**LC/MT**	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		**Importable**	**proportion**	(1+93)*87/218-1
221		**Exportable**	**proportion**	(1+93)*87/219-1
222		**Non tradable**	**proportion**	95*((1-94)*(1+93)-1)
223		**CTE_f** proportion fo farmers	**proportion**	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		**CTE_f** proportion fo farmers	**proportion**	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		**CTE_f** proportion fo farmers	**proportion**	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	**LC/MT**	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	**LC/MT**	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		**Importable**	**proportion**	(1+118)*112/232-1
235		**Exportable**	**proportion**	(1+118)*112/233-1
236		**Non tradable**	**proportion**	120*((1-119)*(1+118)-1)
237		**CTE_f** proportion fo farmers	**proportion**	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		**CTE_f** proportion fo farmers	**proportion**	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	**proportion**	215+223+226+229+237
243				
244		**DRA_f: Farm sector**		
245		**If primary is importable**	**proportion**	166-242
246		**If primary is exportable**	**proportion**	167-242
247		**If primary is non tradable and processed is importable**	**proportion**	168-242
248		**If primary is non tradable and processed is exportable**	**proportion**	169-242
249		**If primary is non tradable and processed is non tradable**	**proportion**	170-242
250		**If primary is non tradable and no processed good exists**	**proportion**	171-242
251		**S**electing DRA_f between lines 245 and 250 according to trading status	**proportion**	172-242
252		**DRA_p: Processing sector**		
253		**Importable**	**proportion**	182-193*([either 158 or 159 or (20/(1+179)]/15)/162
254		**Exportable**	**proportion**	183-193*([either 158 or 159 or (20/(1+179)]/15)/163
255		**Non tradable**	**proportion**	184-193*([either 158 or 159 or (20/(1+179)]/15)/(21/(1+184))
256		**S**electing DRA_p between lines 253 and 255 according to trading status	**proportion**	IF(14="M",253, IF(14="X",254,255))
257				
258		Tariff equivalent of NTBs on importable primary product	**proportion**	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	**proportion**	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	**proportion**	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	**proportion**	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264		**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	**%**	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		**Import tariffs (if importable)**	**%**	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		**Production subsidies (if importable)**	**%**	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		**NTBs (if importable)**	**%**	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	**%**	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		**Export subsidies (if exportable)**	**%**	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		**Production subsidies (if exportable)**	**%**	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		**NTBs (if exportable)**	**%**	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	**%**	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		**Import tariffs (if importable)**	**%**	59/(((69-71)/71)+25+261+59)*100
277		**Production subsidies (if importable)**	**%**	25/(((69-71)/71)+25+261+59)*100
278		**NTBs (if importable)**	**%**	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	**%**	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		**Export subsidies (if exportable)**	**%**	60/(-((71-70)/71)+25-262+60)*100
281		**Production subsidies (if exportable)**	**%**	25/(-((71-70)/71)+25-262+60)*100

CONSUMER TAX EQUIVALENT (Intermediate inputs)

DIRECT RATE OF ASSISTANCE

NTBs

% OF NRA

282	**NTBs (if exportable)**	**%**	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	**%**	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	**%**	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		**Importable**	LC	150*162
298		**Exportable**	LC	150*163
299		**Non tradable**	LC	150*21/(1+184)
300		**Value of primary prod.** from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		**Importable**	LC	12*158
304		**Exportable**	LC	12*159
305		**Non tradable**	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		**Value of primary cons.** from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		**Importable**	LC	151*162
310		**Exportable**	LC	151*163
311		**Non tradable**	LC	151*21/(1+184)
312		**Value of processed cons.** from lines 309,310,311 according to trading sta	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.",129,IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	**%**	100*315/172
331				
332		**Domestic margins and distortions to primary good (P_f / P_{fob})**	**proportion**	314/159
333				
334		**Exchange rate distortions to import (in overall economy)**	**proportion**	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
		Primary product quantities (X, M or H good?)		Please fill in X, M or H in the cells on the right
		Crop area	Ha	Faostat (1961-2002)
		Production (or number of livestock sold)	MT	Instat-Faostat (1961-2002)
		Imports	MT	Faostat (1961-2002)
		Exports	MT	Faostat (1961-2002)
		Change in stocks	MT	Faostat (1961-2002)
		Own input use (feed)	MT	Faostat (1961-2002)
		Other input use (seed)	MT	Faostat (1961-2002)
	PART 1: QUANTITIES	Input into food processing	MT	Assumption
		Input into industrial use	MT	Assumption
		Domestic final consumption of primary product	MT	Computed
		Processed products quantities (X, M or H good?)		NO processed good
		Conversion factor (fraction of weight of primary good)	proportion	n.a.
		Imports	MT	n.a.
		Exports	MT	n.a.
		Change in stocks	MT	n.a.
		Wholesale price for primary good (P_w)	LC/MT	Computed from Primary farm Price, Faostat
		Wholesale price for processed goods (P_{wp})	LC/MT	n.a.
		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/$(I-O coefficient))	proportion	n.a.
		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	n.a.
		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	n.a.
		To be filled in only if primary good is non-tradable		
		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/$(I-O coefficient))	proportion	n.a.
		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	$1/(1+\varepsilon/\eta)$
		To be filled in only if processed goods are non-tradable		
		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
		Primary product:		
		cif import price (P_m)	US$/MT	n.a.
		fob export price (P_x)	US$/MT	n.a.
		International reference price (P)	US$/MT	n.a.
		International trading cost for imports (T_m)	proportion	n.a.
		International trading cost for exports (T_x)	proportion	n.a.
		Processed products:		
		cif import price (P_{mp})	US$/MT	n.a.
		fob export price (P_{xp})	US$/MT	n.a.
		International reference price (P_p)	US$/MT	n.a.
		International trading cost for imports (T_{mp})	proportion	n.a.
		International trading cost for exports (T_{xp})	proportion	n.a.
		Quality adjustment:		
		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
		Processed goods - Quality adjustment for exports (q_{xp})	proportion	n.a.
		Trade subsidies and taxes		
		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	n.a.
		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	n.a.
		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	n.a.
		Exchange rate		
		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium, higher is proportion sold on parallel mkt
		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 2: DOMESTIC VARIABLES

PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)

	Fertilizers		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.

PART 4: INTERMEDIATE INPUT MARKET

	Farm-gate selling price (P_f)	LC/MT	Instat(1955-60) Faostat(66-02)
	Markup on farm-gate price (transportation, storage, etc.)	proportion	Assumption
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	n.a.

PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	**MT**	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	**MT**	8+9+10+11+12
144				
145		% of production exported in primary farm	**%**	100*6/4
146		% of primary production that is processed	**%**	100*10/4
147		% of primary production for industrial use	**%**	100*11/4
148		% of domestic utilization imported	**%**	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	**MT**	10*15
151		domestic final consumption of processed product	**MT**	150+16-17-18
152				
153		% processed output exported	**%**	100*17/150
154		% of domestic processed consumption imported in processed form	**%**	100*16/151
155		% self-sufficiency overall	**%**	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		**Importable**	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		**Exportable**	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		**Importable**	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		**Exportable**	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		**If primary is importable**	**proportion**	(1+24)*(1+22*(20/158-1))-1
167		**If primary is exportable**	**proportion**	(1+24)*(1+22*(20/159-1))-1
168		**If primary is non tradable and processed is importable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		**If primary is non tradable and processed is exportable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		**If primary is non tradable and processed is non tradable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		**If primary is non tradable and no processed good exists**	**proportion**	31*((1+24)*(1-26)-1)
172		**Selecting NRA_f** between lines 166 and 171 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
173		**NRA: Primary good**		
174		**If primary is importable**	**proportion**	20/158-1
175		**If primary is exportable**	**proportion**	20/159-1
176		**If primary is non tradable and processed is importable**	**proportion**	30*((1+25)*21/162-1)
177		**If primary is non tradable and processed is exportable**	**proportion**	30*((1+25)*21/163-1)
178		**If primary is non tradable and processed is non tradable**	**proportion**	30*34*((1+25)*(1-27)-1)
179		**Selecting NRA between lines 174 and 178 according to trading status**	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
180				
181		**NRA_p: Processed goods**		
182		**Importable**	**proportion**	(1+25)*21/162-1
183		**Exportable**	**proportion**	(1+25)*21/163-1
184		**Non tradable**	**proportion**	34*((1+25)*(1-27)-1)
185		**Selecting NRA_p** between lines 182 and 184 according to trading status	**proportion**	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		**If primary is importable**	**proportion**	174
189		**If primary is exportable**	**proportion**	175
190		**If primary is non tradable and processed is importable**	**proportion**	176
191		**If primary is non tradable and processed is exportable**	**proportion**	177
192		**If primary is non tradable and processed is non tradable**	**proportion**	178
193		**S**electing CTE_p between lines 188 and 192 according to trading status	**proportion**	179
194				
195		**CTE_c: Consumers, primary good**		
196		**If primary is importable**	**proportion**	(1+26)*20/158-1
197		**If primary is exportable**	**proportion**	(1+26)*20/159-1
198		**If primary is non tradable and processed is importable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		**If primary is non tradable and processed is exportable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		**If primary is non tradable and processed is non tradable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		**If primary is non tradable and no processed good exists**	**proportion**	(1-31)*((1-24)*(1+26)-1)
202		**S**electing CTE_c between lines 196 and 201 according to trading status	**proportion**	The formula is too long to be displayed here. Please click on the cell to the right.
203		**CTE_{cp}: Consumers, processed goods**		
204		**Importable**	**proportion**	(1+27)*21/162-1
205		**Exportable**	**proportion**	(1+27)*21/163-1
206		**Non tradable**	**proportion**	(1-34)*((1-25)*(1+27)-1)
207		**S**electing CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209		**CTE_f: Fertilizers**		
210		Undistorted international price if importable	**LC/MT**	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	**LC/MT**	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		**Importable**	**proportion**	(1+81)*75/210-1
213		**Exportable**	**proportion**	(1+81)*75/211-1
214		**Non tradable**	**proportion**	83*((1-82)*(1+81)-1)
215		**CTE_f** proportion fo farmers	**proportion**	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	**LC/MT**	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	**LC/MT**	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		**Importable**	**proportion**	(1+93)*87/218-1
221		**Exportable**	**proportion**	(1+93)*87/219-1
222		**Non tradable**	**proportion**	95*((1-94)*(1+93)-1)
223		**CTE_f** proportion fo farmers	**proportion**	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		**CTE_f** proportion fo farmers	**proportion**	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		**CTE_f** proportion fo farmers	**proportion**	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	**LC/MT**	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	**LC/MT**	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		**Importable**	**proportion**	(1+118)*112/232-1
235		**Exportable**	**proportion**	(1+118)*112/233-1
236		**Non tradable**	**proportion**	120*((1-119)*(1+118)-1)
237		**CTE_f** proportion fo farmers	**proportion**	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		**CTE_f** proportion fo farmers	**proportion**	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	**proportion**	215+223+226+229+237
243				
244		**DRA_f: Farm sector**		
245		**If primary is importable**	**proportion**	166-242
246		**If primary is exportable**	**proportion**	167-242
247		**If primary is non tradable and processed is importable**	**proportion**	168-242
248		**If primary is non tradable and processed is exportable**	**proportion**	169-242
249		**If primary is non tradable and processed is non tradable**	**proportion**	170-242
250		**If primary is non tradable and no processed good exists**	**proportion**	171-242
251		**S**electing DRA_f between lines 245 and 250 according to trading status	**proportion**	172-242
252		**DRA_p: Processing sector**		
253		**Importable**	**proportion**	182-193*([either 158 or 159 or (20/(1+179)]/15)/162
254		**Exportable**	**proportion**	183-193*([either 158 or 159 or (20/(1+179)]/15)/163
255		**Non tradable**	**proportion**	184-193*([either 158 or 159 or (20/(1+179)]/15)/(21/(1+184))
256		**S**electing DRA_p between lines 253 and 255 according to trading status	**proportion**	IF(14="M",253, IF(14="X",254,255))
257				
258		Tariff equivalent of NTBs on importable primary product	**proportion**	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	**proportion**	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	**proportion**	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	**proportion**	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264		**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	**%**	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		**Import tariffs (if importable)**	**%**	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		**Production subsidies (if importable)**	**%**	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		**NTBs (if importable)**	**%**	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	**%**	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		**Export subsidies (if exportable)**	**%**	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		**Production subsidies (if exportable)**	**%**	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		**NTBs (if exportable)**	**%**	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	**%**	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		**Import tariffs (if importable)**	**%**	59/(((69-71)/71)+25+261+59)*100
277		**Production subsidies (if importable)**	**%**	25/(((69-71)/71)+25+261+59)*100
278		**NTBs (if importable)**	**%**	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	**%**	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		**Export subsidies (if exportable)**	**%**	60/(-((71-70)/71)+25-262+60)*100
281		**Production subsidies (if exportable)**	**%**	25/(-((71-70)/71)+25-262+60)*100

CONSUMER TAX EQUIVALENT (Intermediate inputs)

DIRECT RATE OF ASSISTANCE

NTBs

% OF NRA

282	**NTBs (if exportable)**	**%**	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	**%**	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	**%**	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		**Importable**	LC	150*162
298		**Exportable**	LC	150*163
299		**Non tradable**	LC	150*21/(1+184)
300		**Value of primary prod.** from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		**Importable**	LC	12*158
304		**Exportable**	LC	12*159
305		**Non tradable**	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		**Value of primary cons.** from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		**Importable**	LC	151*162
310		**Exportable**	LC	151*163
311		**Non tradable**	LC	151*21/(1+184)
312		**Value of processed cons.** from lines 309,310,311 according to trading sta	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.",129,IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	**%**	100*315/172
331				
332		**Domestic margins and distortions to primary good (P_f / P_{fob})**	**proportion**	314/159
333				
334		**Exchange rate distortions to import (in overall economy)**	**proportion**	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
		Primary product quantities (X, M or H good?)		Please fill in X, M or H in the cells on the right
		Crop area	Ha	FAOSTAT
		Production (or number of livestock sold)	MT	FAOSTAT, Ministry of Ag
		Imports	MT	FAOSTAT, Ministry of Ag
	PART 1: QUANTITIES	Exports	MT	stry of Ag(all exports are dried cassava, though drying is a very light processing therefore
		Change in stocks	MT	FAOSTAT
		Own input use (feed)	MT	FAOSTAT
		Other input use (seed)	MT	n.a.
		Input into food processing	MT	here are some industries producing tapioca and glues out of cassava but no data availabl
		Input into industrial use	MT	n.a.
		Domestic final consumption of primary product	MT	Computed.
		Processed products quantities (X, M or H good?)		Assume no processed good exist(due to very low observation &/or data unavailability
		Conversion factor (fraction of weight of primary good)	proportion	n.a.
		Imports	MT	n.a.
		Exports	MT	n.a.
		Change in stocks	MT	n.a.
		Wholesale price for primary good (P_w)	LC/MT	n.a.
		Wholesale price for processed goods (P_{wp})	LC/MT	n.a.
	PART 2: DOMESTIC VARIABLES	Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1/$(I-O coefficient))	proportion	n.a.
		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	n.a.
		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	zero
		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	n.a.
		To be filled in only if primary good is non-tradable		
		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1/$(I-O coefficient))	proportion	n.a.
		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
		To be filled in only if processed goods are non-tradable		
		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
		Primary product:		
		cif import price (P_m)	US$/MT	n.a.
		fob export price (P_x)	US$/MT	n.a.
		International reference price (P)	US$/MT	n.a.
		International trading cost for imports (T_m)	proportion	n.a.
		International trading cost for exports (T_x)	proportion	n.a.
		Processed products:		
		cif import price (P_{mp})	US$/MT	n.a.
		fob export price (P_{xp})	US$/MT	n.a.
		International reference price (P_p)	US$/MT	n.a.
		International trading cost for imports (T_{mp})	proportion	n.a.
		International trading cost for exports (T_{xp})	proportion	n.a.
	PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)			
		Quality adjustment:		
		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
		Processed goods - Quality adjustment for exports (q_{xp})	proportion	n.a.
		Trade subsidies and taxes		
		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	Customs and inference
		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	n.a.
		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	n.a.
		Exchange rate		
		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
		Proportion of foreign currency sold on the parallel market	proportion	assume higher is premium, higher is proportion sold on parallel mkt
		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
		Discounted parallel market rate (copy from row 65 if no discount is needed)	LC/US$	65
		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET			
	Fertilizers		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if importable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if exportable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if importable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if exportable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good (at undistorted prices)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	Faostat(66-02), Dostie et al. (03-05)
	Markup on farm-gate price (transportation, storage, etc.)	proportion	Dostie & al. , USAID project (deducted)
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for primary good (P_r) (including consumption tax)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices (net of consumption tax)	proportion	n.a.
	Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	n.a.

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	The formula is too long to be displayed here. Please click on the cell to the right.
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244	DIRECT RATE OF ASSISTANCE	**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251		Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179))]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179))]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179))]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258	NTBs	Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264	% OF NRA	**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

	% OF DRA	**% proportion of DRA_f:**		
		CTE_f	%	(-100)*242/251
		% proportion of DRA_p:		
		CTE_p	%	(-100)*193/256
	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
		Importable	LC	4*158
		Exportable	LC	4*159
		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
		Value of processed production (at wholesale undistorted prices)		
		Importable	LC	150*162
		Exportable	LC	150*163
		Non tradable	LC	150*21/(1+184)
		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
		Value of h'hold primary consumption (at wholesale undistorted price)		
		Importable	LC	12*158
		Exportable	LC	12*159
		Non tradable	LC	12*20/(1+[either 176 or 177 or 178 or 171])
		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
		Value of h'hold processed cons. (at wholesale undistorted price)		
		Importable	LC	151*162
		Exportable	LC	151*163
		Non tradable	LC	151*21/(1+184)
		Value of processed cons. from lines 309,310,311 according to trading statu	LC	IF(14="M",309,IF(14="X",310,311))
	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.","n.a.",IF(OR(128,130="n.a."),"n.a.",130/128-1))
		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
		Primary good:		
		Retail markup on primary wholesale prices (net of consumption tax)	proportion	IF(133<>"n.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130*(1+26))-1))
		Retail price for primary good (P_r) (including consumption tax)	LC/MT	IF(134<>"n.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+133)*(1+26)))
		Processed goods:		
		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
		Retail markup on processed wholesale prices (net of consumption tax)	proportion	IF(139<>"n.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*(1+27))-1))
		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	IF(140<>"n.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+139)*(1+27)))
		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
2		**Primary product quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
3		Crop area	Ha	n.a.
4		Production (or number of livestock sold)	MT	Instat, FAOSTAT
5		Imports	MT	FAOSTAT
6		Exports	MT	Instat, FAOSTAT
7		Change in stocks	MT	n.a.
8		Own input use (feed)	MT	n.a.
9		Other input use (seed)	MT	n.a.
10		Input into food processing	MT	n.a.
11		Input into industrial use	MT	n.a.
12	**PART 1: QUANTITIES**	Domestic final consumption of primary product	MT	142-143 in order to get them equal
13				
14		**Processed products quantities (X, M or H good?)**		Please fill in X, M or H in the cells on the right
15		Conversion factor (fraction of weight of primary good)	proportion	n.a.
16		Imports	MT	n.a.
17		Exports	MT	n.a.
18		Change in stocks	MT	n.a.
19				
20		Wholesale price for primary good (P_w)	LC/MT	Faostat
21		Wholesale price for processed goods (P_{wp})	LC/MT	n.a.
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1$/(I-O coefficient))	proportion	default assumption
23				
24		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
25		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	n.a.
27		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	WB, Customs
28				
29		**To be filled in only if primary good is non-tradable**		
30	**PART 2: DOMESTIC VARIABLES**	Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1$/(I-O coefficient))	proportion	default assumption
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36		**Primary product:**		
37		cif import price (P_m)	US$/MT	n.a.
38		fob export price (P_x)	US$/MT	n.a.
39		International reference price (P)	US$/MT	IFS
40		International trading cost for imports (T_m)	proportion	nal Grains Council (average prop in 2003, 2006 applied throughc
41		International trading cost for exports (T_x)	proportion	
42				
43		**Processed products:**		
44		cif import price (P_{mp})	US$/MT	n.a.
45		fob export price (P_{xp})	US$/MT	n.a.
46		International reference price (P_p)	US$/MT	n.a.
47		International trading cost for imports (T_{mp})	proportion	n.a.
48		International trading cost for exports (T_{xp})	proportion	n.a.
49				
50		**Quality adjustment:**		
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	n.a.
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	n.a.
55				
56	**PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)**	**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	WB, custom data, and inference
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	WB, custom data, and inference
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	ssume higher is premium, higher is proportion sold on parallel m
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from line 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET	**Fertilizers**		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	Instat(55-60)..missing(60-91, used cpi escalation)...Faostat(91-02)
	Markup on farm-gate price (transportation, storage, etc.)	proportion	transportation, storage, other costs…
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices	proportion	n.a.
	Retail price for primary good (P_r)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices	proportion	n.a.
	Retail price for processed goods(P_{rp})	LC/MT	n.a.

141	Section 2	(Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	nula is too long to be displayed here. Please click on the cell to t
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	nula is too long to be displayed here. Please click on the cell to t
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	nula is too long to be displayed here. Please click on the cell to t
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244	DIRECT RATE OF ASSISTANCE	**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251		Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179))]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179))]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179))]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258	NTBs	Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264	% OF NRA	**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	%	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	%	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		Importable	LC	150*162
298		Exportable	LC	150*163
299		Non tradable	LC	150*21/(1+184)
300		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		Importable	LC	12*158
304		Exportable	LC	12*159
305		Non tradable	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		Importable	LC	151*162
310		Exportable	LC	151*163
311		Non tradable	LC	151*21/(1+184)
312		Value of processed cons. from lines 309,310,311 according to trading status	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.","n.a.",IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+13
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	ı.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+13
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
331				
332		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
333				
334		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
2		**Primary product quantities (X, M or H good?)**		Paddy rice is basically non-traded
3		Crop area	Ha	FAOSTAT
4		Production	MT	FAOSTAT, Ministry of Agriculture(MAEP), INSTAT
5		Imports	MT	
6		Exports	MT	
7	**PART 1: QUANTITIES**	Change in stocks	MT	FAOSTAT
8		Own input use (feed)	MT	FAOSTAT
9		Other input use (seed)	MT	
10		Input into food processing	MT	
11		Input into industrial use	MT	
12		Domestic final consumption of primary product	MT	
13				
14		**Processed products quantities (X, M or H good?)**		All exports and imports are processed rice (share is in brackets)
15		Conversion factor (fraction of weight of primary good)	proportion	FAOSTAT
16		Imports	MT	FAOSTAT, matched with Custom data
17		Exports	MT	FAOSTAT, matched with Custom data
18		Change in stocks	MT	FAOSTAT
19				
20		Wholesale price for primary good (P_w)	LC/MT	ved using MAEP, FAOSTAT, UPDR (1999) and Dorosh (1972-19
21		Wholesale price for processed goods (P_{wp})	LC/MT	ved using MAEP, FAOSTAT, UPDR (1999) and Dorosh (1972-19
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1$/(I-O coefficient))	proportion	1/(I-O coef)
23				
24		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
25		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	n.a.
27		Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	WB, Customs, n.a. when left blank
28				
29		**To be filled in only if primary good is non-tradable**		
30		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1$/(I-O coefficient))	proportion	1/(I-O coef)
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36		**Primary product:**		
37		cif import price (P_m)	US$/MT	n.a.
38		fob export price (P_x)	US$/MT	n.a.
39		International reference price (P)	US$/MT	n.a.
40		International trading cost for imports (T_m)	proportion	n.a.
41		International trading cost for exports (T_x)	proportion	n.a.
42				
43		**Processed products:**		
44		cif import price (P_{mp})	US$/MT	WB- FOB Thailand(corrected for freight, transportation…)
45		fob export price (P_{xp})	US$/MT	Custom data (Export Unit Value)
46		International reference price (P_p)	US$/MT	n.a.
47		International trading cost for imports (T_{mp})	proportion	Standard Freight cost for grains (drawn from IGC)
48		International trading cost for exports (T_{xp})	proportion	Standard Freight cost for grains (drawn from IGC)
49				
50		**Quality adjustment:**		
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	Guess (Exported malagasy rice are of very high quality)
55				
56		**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	n.a.
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	o available data but never heard of export subsidy for rice in Mc
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	ssume higher is premium, higher is proportion sold on parallel m
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from line 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 2: DOMESTIC VARIABLES

PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)

72				
73	PART 4: INTERMEDIATE INPUT MARKET	**Fertilizers**		
74		Share in value of production of this primary good	proportion	n.a.
75		Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
76		cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
77		fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
78		International reference price (P_n) (only if tradable)	US$/MT	n.a.
79		International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
80		International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
81		Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
82		Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
83		Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
84				
85		**Pesticides**		
86		Share in value of production of this primary good	proportion	n.a.
87		Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
88		cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
89		fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
90		International reference price (P_n) (only if tradable)	US$/MT	n.a.
91		International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
92		International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
93		Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
94		Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
95		Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
96				
97		**Credit** (non-tradable)		
98		Share in value of production of this primary good	proportion	n.a.
99		Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
100		Production subsidy (s_n<0 if a tax)	proportion	n.a.
101		Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
102				
103		**Fuel/electricity** (non-tradable)		
105		Share in value of production of this primary good	proportion	n.a.
106		Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
107		Production subsidy (s_n<0 if a tax)	proportion	n.a.
108		Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
109				
110		**Other**		
111		Share in value of production of this primary good	proportion	n.a.
112		Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
113		cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
114		fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
115		International reference price (P_n) (only if tradable)	US$/MT	n.a.
116		International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
117		International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
118		Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
119		Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
120		Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
121				
122		**MEMO ITEM: water** (non-tradable)		
123		Share in value of production of this primary good	proportion	n.a.
124		Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
125		Production subsidy (s_n<0 if a tax)	proportion	n.a.
126		Proportion of distortions passed to farmers (1-λ_n) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
127				
128	PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	1955-1960: assumed to be equal to 1961, 1961-1965:instat, FA
129		Markup on farm-gate price (transportation, storage, etc.)	proportion	n.a.
130		Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
131				
132		**Primary good:**		
133		Retail markup on primary wholesale prices	proportion	n.a.
134		Retail price for primary good (P_r)	LC/MT	n.a.
135				
136		**Processed goods:**		
137		Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
138		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
139		Retail markup on processed wholesale prices	proportion	n.a.
140		Retail price for processed goods(P_{rp})	LC/MT	n.a.

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	**MT**	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	**MT**	8+9+10+11+12
144				
145		% of production exported in primary farm	**%**	100*6/4
146		% of primary production that is processed	**%**	100*10/4
147		% of primary production for industrial use	**%**	100*11/4
148		% of domestic utilization imported	**%**	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	**MT**	10*15
151		domestic final consumption of processed product	**MT**	150+16-17-18
152				
153		% processed output exported	**%**	100*17/150
154		% of domestic processed consumption imported in processed form	**%**	100*16/151
155		% self-sufficiency overall	**%**	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		**Importable**	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		**Exportable**	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		**Importable**	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		**Exportable**	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		**If primary is importable**	**proportion**	(1+24)*(1+22*(20/158-1))-1
167		**If primary is exportable**	**proportion**	(1+24)*(1+22*(20/159-1))-1
168		**If primary is non tradable and processed is importable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		**If primary is non tradable and processed is exportable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		**If primary is non tradable and processed is non tradable**	**proportion**	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		**If primary is non tradable and no processed good exists**	**proportion**	31*((1+24)*(1-26)-1)
172		**Selecting NRA_f** between lines 166 and 171 according to trading status	**proportion**	nula is too long to be displayed here. Please click on the cell to t
173		**NRA: Primary good**		
174		**If primary is importable**	**proportion**	20/158-1
175		**If primary is exportable**	**proportion**	20/159-1
176		**If primary is non tradable and processed is importable**	**proportion**	30*((1+25)*21/162-1)
177		**If primary is non tradable and processed is exportable**	**proportion**	30*((1+25)*21/163-1)
178		**If primary is non tradable and processed is non tradable**	**proportion**	30*34*((1+25)*(1-27)-1)
179		**Selecting NRA between lines 174 and 178 according to trading status**	**proportion**	nula is too long to be displayed here. Please click on the cell to t
180				
181		**NRA_p: Processed goods**		
182		**Importable**	**proportion**	(1+25)*21/162-1
183		**Exportable**	**proportion**	(1+25)*21/163-1
184		**Non tradable**	**proportion**	34*((1+25)*(1-27)-1)
185		**Selecting NRA_p** between lines 182 and 184 according to trading status	**proportion**	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		**If primary is importable**	**proportion**	174
189		**If primary is exportable**	**proportion**	175
190		**If primary is non tradable and processed is importable**	**proportion**	176
191		**If primary is non tradable and processed is exportable**	**proportion**	177
192		**If primary is non tradable and processed is non tradable**	**proportion**	178
193		**S**electing CTE_p between lines 188 and 192 according to trading status	**proportion**	179
194				
195		**CTE_c: Consumers, primary good**		
196		**If primary is importable**	**proportion**	(1+26)*20/158-1
197		**If primary is exportable**	**proportion**	(1+26)*20/159-1
198		**If primary is non tradable and processed is importable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		**If primary is non tradable and processed is exportable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		**If primary is non tradable and processed is non tradable**	**proportion**	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		**If primary is non tradable and no processed good exists**	**proportion**	(1-31)*((1-24)*(1+26)-1)
202		**S**electing CTE_c between lines 196 and 201 according to trading status	**proportion**	nula is too long to be displayed here. Please click on the cell to t
203		**CTE_{cp}: Consumers, processed goods**		
204		**Importable**	**proportion**	(1+27)*21/162-1
205		**Exportable**	**proportion**	(1+27)*21/163-1
206		**Non tradable**	**proportion**	(1-34)*((1-25)*(1+27)-1)
207		**S**electing CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Fertilizers**		
210		Undistorted international price if importable	**LC/MT**	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	**LC/MT**	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		**Importable**	**proportion**	(1+81)*75/210-1
213		**Exportable**	**proportion**	(1+81)*75/211-1
214		**Non tradable**	**proportion**	83*((1-82)*(1+81)-1)
215		**CTE_f** proportion fo farmers	**proportion**	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	**LC/MT**	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	**LC/MT**	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		**Importable**	**proportion**	(1+93)*87/218-1
221		**Exportable**	**proportion**	(1+93)*87/219-1
222		**Non tradable**	**proportion**	95*((1-94)*(1+93)-1)
223		**CTE_f** proportion fo farmers	**proportion**	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		**CTE_f** proportion fo farmers	**proportion**	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		**CTE_f** proportion fo farmers	**proportion**	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	**LC/MT**	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	**LC/MT**	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		**Importable**	**proportion**	(1+118)*112/232-1
235		**Exportable**	**proportion**	(1+118)*112/233-1
236		**Non tradable**	**proportion**	120*((1-119)*(1+118)-1)
237		**CTE_f** proportion fo farmers	**proportion**	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		**CTE_f** proportion fo farmers	**proportion**	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	**proportion**	215+223+226+229+237
243				
244	DIRECT RATE OF ASSISTANCE	**DRA_f: Farm sector**		
245		**If primary is importable**	**proportion**	166-242
246		**If primary is exportable**	**proportion**	167-242
247		**If primary is non tradable and processed is importable**	**proportion**	168-242
248		**If primary is non tradable and processed is exportable**	**proportion**	169-242
249		**If primary is non tradable and processed is non tradable**	**proportion**	170-242
250		**If primary is non tradable and no processed good exists**	**proportion**	171-242
251		**S**electing DRA_f between lines 245 and 250 according to trading status	**proportion**	172-242
252		**DRA_p: Processing sector**		
253		**Importable**	**proportion**	182-193*([either 158 or 159 or (20/(1+179)]/15)/162
254		**Exportable**	**proportion**	183-193*([either 158 or 159 or (20/(1+179)]/15)/163
255		**Non tradable**	**proportion**	184-193*([either 158 or 159 or (20/(1+179)]/15)/(21/(1+184))
256		**S**electing DRA_p between lines 253 and 255 according to trading status	**proportion**	IF(14="M",253, IF(14="X",254,255))
257				
258	NTBs	Tariff equivalent of NTBs on importable primary product	**proportion**	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	**proportion**	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	**proportion**	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	**proportion**	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264	% OF NRA	**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	**%**	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		**Import tariffs (if importable)**	**%**	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		**Production subsidies (if importable)**	**%**	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		**NTBs (if importable)**	**%**	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	**%**	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		**Export subsidies (if exportable)**	**%**	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		**Production subsidies (if exportable)**	**%**	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		**NTBs (if exportable)**	**%**	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	**%**	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		**Import tariffs (if importable)**	**%**	59/(((69-71)/71)+25+261+59)*100
277		**Production subsidies (if importable)**	**%**	25/(((69-71)/71)+25+261+59)*100
278		**NTBs (if importable)**	**%**	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	**%**	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		**Export subsidies (if exportable)**	**%**	60/(-((71-70)/71)+25-262+60)*100
281		**Production subsidies (if exportable)**	**%**	25/(-((71-70)/71)+25-262+60)*100

282	**NTBs (if exportable)**	**%**	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	**%**	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	**%**	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178 or 171])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(E2="M",E291,IF(E2="X",E292,E293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		**Importable**	LC	150*162
298		**Exportable**	LC	150*163
299		**Non tradable**	LC	150*21/(1+184)
300		**Value of primary prod.** from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		**Importable**	LC	12*158
304		**Exportable**	LC	12*159
305		**Non tradable**	LC	12*20/(1+[either 176 or 177 or 178 or 171])
306		**Value of primary cons.** from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		**Importable**	LC	151*162
310		**Exportable**	LC	151*163
311		**Non tradable**	LC	151*21/(1+184)
312		**Value of processed cons.** from lines 309,310,311 according to trading sta	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.",129,IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+13
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	ı.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+13
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	**%**	100*315/172
331				
332		**Domestic margins and distortions to primary good (P_f / P_{fob})**	**proportion**	314/159
333				
334		**Exchange rate distortions to import (in overall economy)**	**proportion**	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
2		**Primary product quantities (X, M or H good?)**		Paddy rice is basically non-traded
3		Crop area	Ha	FAOSTAT
4		Production	MT	FAOSTAT, Ministry of Agriculture(MAEP), INSTAT
5		Imports	MT	FAOSTAT, Ministry of Agriculture(MAEP), INSTAT
6	**PART 1: QUANTITIES**	Exports	MT	FAOSTAT, Ministry of Agriculture(MAEP), INSTAT
7		Change in stocks	MT	FAOSTAT
8		Own input use (feed)	MT	FAOSTAT
9		Other input use (seed)	MT	FAOSTAT
10		Input into food processing	MT	FAOSTAT, Ministry of Agriculture(MAEP), INSTAT
11		Input into industrial use	MT	
12		Domestic final consumption of primary product	MT	
13				
14		**Processed products quantities (X, M or H good?)**		All exports and imports are processed rice
15		Conversion factor (fraction of weight of primary good)	proportion	FAOSTAT
16		Imports	MT	FAOSTAT, matched with Custom data
17		Exports	MT	FAOSTAT, matched with Custom data
18		Change in stocks	MT	FAOSTAT
19				
20		Wholesale price for primary good (P_w)	LC/MT	ved using MAEP, FAOSTAT, UPDR (1999) and Dorosh (1972-19
21		Wholesale price for processed goods (P_{wp})	LC/MT	ved using MAEP, FAOSTAT, UPDR (1999) and Dorosh (1972-19
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1$/(I-O coefficient))	proportion	1/(I-O coef)
23				
24		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
25		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	is a kind of implicit subsidy during the nationalization period (wit
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	n.a.
27	**PART 2: DOMESTIC VARIABLES**	Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	n.a.
28				
29		**To be filled in only if primary good is non-tradable**		
30		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1$/(I-O coefficient))	proportion	1/(I-O coef)
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36		**Primary product:**		
37		cif import price (P_m)	US$/MT	n.a.
38		fob export price (P_x)	US$/MT	n.a.
39		International reference price (P)	US$/MT	n.a.
40		International trading cost for imports (T_m)	proportion	n.a.
41		International trading cost for exports (T_x)	proportion	n.a.
42				
43		**Processed products:**		
44		cif import price (P_{mp})	US$/MT	WB- FOB Thailand(corrected for freight, transportation…)
45		fob export price (P_{xp})	US$/MT	Custom data (Export Unit Value)
46		International reference price (P_p)	US$/MT	n.a.
47		International trading cost for imports (T_{mp})	proportion	Standard Freight cost for grains (drawn from IGC)
48		International trading cost for exports (T_{xp})	proportion	Standard Freight cost for grains (drawn from IGC)
49				
50		**Quality adjustment:**		
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	Dorosh, Sarris and Alexander paper
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	Guess (Exported malagasy rice are of very high quality)
55				
56	**PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)**	**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	n.a.
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	o available data but never heard of export subsidy for rice in Mc
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	ssume higher is premium, higher is proportion sold on parallel m
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from line 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET	**Fertilizers**		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	n.a.
	Markup on farm-gate price (transportation, storage, etc.)	proportion	n.a.
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices	proportion	n.a.
	Retail price for primary good (P_r)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices	proportion	n.a.
	Retail price for processed goods(P_{rp})	LC/MT	n.a.

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	ıula is too long to be displayed here. Please click on the cell to t
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	ıula is too long to be displayed here. Please click on the cell to t
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	ıula is too long to be displayed here. Please click on the cell to t
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244	DIRECT RATE OF ASSISTANCE	**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251		Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179))]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179))]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179))]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258	NTBs	Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264	% OF NRA	**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	%	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	%	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(2="M",291,IF(2="X",292,293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		Importable	LC	150*162
298		Exportable	LC	150*163
299		Non tradable	LC	150*21/(1+184)
300		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		Importable	LC	12*158
304		Exportable	LC	12*159
305		Non tradable	LC	12*20/(1+[either 176 or 177 or 178])
306		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		Importable	LC	151*162
310		Exportable	LC	151*163
311		Non tradable	LC	151*21/(1+184)
312		Value of processed cons. from lines 309,310,311 according to trading status	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.","n.a.",IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+13
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	ı.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+13
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
331				
332		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
333				
334		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

		INDIVIDUAL PRIMARY AND PROCESSED AGRICULTURAL PRODUCTS - SECTION 1: Exogenous data	Unit	Source / Formulae
2		**Primary product quantities (X, M or H good?)**		Paddy rice is basically non-traded
3		Crop area	Ha	FAOSTAT
4		Production	MT	FAOSTAT, Ministry of Agriculture(MAEP), INSTAT
5		Imports	MT	
6		Exports	MT	
7	**PART 1: QUANTITIES**	Change in stocks	MT	FAOSTAT
8		Own input use (feed)	MT	FAOSTAT
9		Other input use (seed)	MT	
10		Input into food processing	MT	
11		Input into industrial use	MT	
12		Domestic final consumption of primary product	MT	
13				
14		**Processed products quantities (X, M or H good?)**		All exports and imports are processed rice
15		Conversion factor (fraction of weight of primary good)	proportion	FAOSTAT
16		Imports	MT	FAOSTAT, matched with Custom data
17		Exports	MT	FAOSTAT, matched with Custom data
18		Change in stocks	MT	FAOSTAT
19				
20		Wholesale price for primary good (P_w)	LC/MT	ved using MAEP, FAOSTAT, UPDR (1999) and Dorosh (1972-19
21		Wholesale price for processed goods (P_{wp})	LC/MT	ved using MAEP, FAOSTAT, UPDR (1999) and Dorosh (1972-19
22		Transmission factor from NRA to NRA_f ($0 \leq \theta_f \leq 1$/(I-O coefficient))	proportion	1/(I-O coef)
23				
24		Subsidy to primary good production ($s_f < 0$ if a tax)	proportion	n.a.
25		Subsidy to processed good production ($s_p < 0$ if a tax)	proportion	is a kind of implicit subsidy during the nationalization period (wit
26		Consumer tax on primary products ($c_c < 0$ if a subsidy)	proportion	n.a.
27	**PART 2: DOMESTIC VARIABLES**	Consumer tax on processed products ($c_{cp} < 0$ if a subsidy)	proportion	n.a.
28				
29		**To be filled in only if primary good is non-tradable**		
30		Transmission factor from NRA_p to NRA ($0 \leq \theta \leq 1$/(I-O coefficient))	proportion	1/(I-O coef)
31		Proportion of distortions in primary sector accruing to farmers (λ_f)	$0 \leq \lambda_f \leq 1$	1/(1+ε/η)
32				
33		**To be filled in only if processed goods are non-tradable**		
34		Proportion of distortions in processed goods accruing to processors (λ_p)	$0 \leq \lambda_p \leq 1$	n.a.
35				
36		**Primary product:**		
37		cif import price (P_m)	US$/MT	n.a.
38		fob export price (P_x)	US$/MT	n.a.
39		International reference price (P)	US$/MT	n.a.
40		International trading cost for imports (T_m)	proportion	n.a.
41		International trading cost for exports (T_x)	proportion	n.a.
42				
43		**Processed products:**		
44		cif import price (P_{mp})	US$/MT	WB- FOB Thailand(corrected for freight, transportation…)
45		fob export price (P_{xp})	US$/MT	Custom data (Export Unit Value)
46		International reference price (P_p)	US$/MT	n.a.
47		International trading cost for imports (T_{mp})	proportion	Standard Freight cost for grains (drawn from IGC)
48		International trading cost for exports (T_{xp})	proportion	Standard Freight cost for grains (drawn from IGC)
49				
50		**Quality adjustment:**		
51		Primary good - Quality adjustment for imports (q_m)	proportion	n.a.
52		Primary good - Quality adjustment for exports (q_x)	proportion	n.a.
53		Processed goods - Quality adjustment for imports (q_{mp})	proportion	Dorosh, Sarris and Alexander paper
54		Processed goods - Quality adjustment for exports (q_{xp})	proportion	Guess (Exported malagasy rice are of very high quality)
55				
56	**PART 3: INTERNATIONAL VARIABLES (to be filled in only for tradable goods)**	**Trade subsidies and taxes**		
57		Primary good - Import tariff (t_m<0 if a subsidy)	proportion	n.a.
58		Primary good - Export subsidy (s_x<0 if a tax)	proportion	n.a.
59		Processed goods - Import tariff (t_{mp}<0 if a subsidy)	proportion	Customs(00-05), 55-99(deduced)
60		Processed goods - Export subsidy (s_{xp}<0 if a tax)	proportion	o available data but never heard of export subsidy for rice in Mc
61				
62		**Exchange rate**		
63		Official exchange rate	LC/US$	WDI (1960-1999), Imf(2000-2005)
64		Proportion of foreign currency sold on the parallel market	proportion	ssume higher is premium, higher is proportion sold on parallel m
65		Parallel market rate (leave "n.a." if no parallel market exists)	LC/US$	n.a.
66		Discounted parallel market rate (copy from line 65 if no discount is needed)	LC/US$	65
67		Primary good - Relevant exchange rate for imports (E_m)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
68		Primary good - Relevant exchange rate for exports (E_x)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
69		Processed goods - Relevant exchange rate for imports (E_{mp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,66))
70		Processed goods - Relevant exchange rate for exports (E_{xp})	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(1-64)*63+64*66))
71		Equilibrium exchange rate which would prevail in an undistorted market (E)	LC/US$	IF(63="n.a.","n.a.",IF(66="n.a.",63,(66+(1-64)*63+64*66)/2))

PART 4: INTERMEDIATE INPUT MARKET	**Fertilizers**		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Pesticides		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Credit (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Fuel/electricity (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	Other		
	Share in value of production of this primary good	proportion	n.a.
	Wholesale domestic price (P_{wn}) (only if tradable)	LC/MT	n.a.
	cif import price (P_{mn}) (only if tradable)	US$/MT	n.a.
	fob export price (P_{xn}) (only if tradable)	US$/MT	n.a.
	International reference price (P_n) (only if tradable)	US$/MT	n.a.
	International trading cost for imports (T_{mn}) (only if tradable)	proportion	n.a.
	International trading cost for exports (T_{xn}) (only if tradable)	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax) (only if non-tradable)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
	MEMO ITEM: water (non-tradable)		
	Share in value of production of this primary good	proportion	n.a.
	Consumption tax (c_f<0 if a subsidy)	proportion	n.a.
	Production subsidy (s_n<0 if a tax)	proportion	n.a.
	Proportion of distortions passed to farmers ($1-\lambda_n$) (only if non-tradable)	$0 \leq \lambda_n \leq 1$	n.a.
PART 5: OPTIONAL DOMESTIC PRICES AND MARGINS	Farm-gate selling price (P_f)	LC/MT	n.a.
	Markup on farm-gate price (transportation, storage, etc.)	proportion	n.a.
	Wholesale price for primary good (P_w) (from line 20)	LC/MT	20
	Primary good:		
	Retail markup on primary wholesale prices	proportion	n.a.
	Retail price for primary good (P_r)	LC/MT	n.a.
	Processed goods:		
	Markup on primary wholesale price (processing costs, etc.)	proportion	n.a.
	Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	21
	Retail markup on processed wholesale prices	proportion	n.a.
	Retail price for processed goods(P_{rp})	LC/MT	n.a.

141		**Section 2** (Endogenous data)		
142	PRIMARY PRODUCT	Domestic utilization (line 142 has to equal line 143):	MT	4+5-6-7
143		Domestic utilization (line 142 has to equal line 143):	MT	8+9+10+11+12
144				
145		% of production exported in primary farm	%	100*6/4
146		% of primary production that is processed	%	100*10/4
147		% of primary production for industrial use	%	100*11/4
148		% of domestic utilization imported	%	100*5/142
149				
150	PROCESSED PRODUCTS	processed output	MT	10*15
151		domestic final consumption of processed product	MT	150+16-17-18
152				
153		% processed output exported	%	100*17/150
154		% of domestic processed consumption imported in processed form	%	100*16/151
155		% self-sufficiency overall	%	100*15*4/(15*142+16-17-18)
156				
157	UNDISTORTED INTERNATIONAL PRICES	**Undistorted international price - primary products (P_i)**		
158		Importable	LC/MT	IF(37<>"n.a.",37*71/(1-51), 39*(1+40)*71/(1-51))
159		Exportable	LC/MT	IF(38<>"n.a.",38*71*(1-52),39/(1+41)*71*(1-52))
160				
161		**Undistorted international price - processed products (P_{ip})**		
162		Importable	LC/MT	IF(44<>"n.a.",44*71/(1-53),46*(1+47)*71/(1-53))
163		Exportable	LC/MT	IF(45<>"n.a.",45*71*(1-54),46/(1+48)*71*(1-54))
164				
165	NOMINAL RATE OF ASSISTANCE	**NRA_f: Farm-gate price**		
166		If primary is importable	proportion	(1+24)*(1+22*(20/158-1))-1
167		If primary is exportable	proportion	(1+24)*(1+22*(20/159-1))-1
168		If primary is non tradable and processed is importable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/162-1))-1
169		If primary is non tradable and processed is exportable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*((1+25)*21/163-1))-1
170		If primary is non tradable and processed is non tradable	proportion	(1+31*((1+24)*(1-26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
171		If primary is non tradable and no processed good exists	proportion	31*((1+24)*(1-26)-1)
172		Selecting NRA_f between lines 166 and 171 according to trading status	proportion	ıula is too long to be displayed here. Please click on the cell to t
173		**NRA: Primary good**		
174		If primary is importable	proportion	20/158-1
175		If primary is exportable	proportion	20/159-1
176		If primary is non tradable and processed is importable	proportion	30*((1+25)*21/162-1)
177		If primary is non tradable and processed is exportable	proportion	30*((1+25)*21/163-1)
178		If primary is non tradable and processed is non tradable	proportion	30*34*((1+25)*(1-27)-1)
179		Selecting NRA between lines 174 and 178 according to trading status	proportion	ıula is too long to be displayed here. Please click on the cell to t
180				
181		**NRA_p: Processed goods**		
182		Importable	proportion	(1+25)*21/162-1
183		Exportable	proportion	(1+25)*21/163-1
184		Non tradable	proportion	34*((1+25)*(1-27)-1)
185		Selecting NRA_p between lines 182 and 184 according to trading status	proportion	IF(14="M",182, IF(14="X",183,184))
186				
187	CONSUMER TAX EQUIVALENT	**CTE_p: Processing sector**		
188		If primary is importable	proportion	174
189		If primary is exportable	proportion	175
190		If primary is non tradable and processed is importable	proportion	176
191		If primary is non tradable and processed is exportable	proportion	177
192		If primary is non tradable and processed is non tradable	proportion	178
193		Selecting CTE_p between lines 188 and 192 according to trading status	proportion	179
194				
195		**CTE_c: Consumers, primary good**		
196		If primary is importable	proportion	(1+26)*20/158-1
197		If primary is exportable	proportion	(1+26)*20/159-1
198		If primary is non tradable and processed is importable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/162-1))-1
199		If primary is non tradable and processed is exportable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*((1+25)*21/163-1))-1
200		If primary is non tradable and processed is non tradable	proportion	(1+(1-31)*((1-24)*(1+26)-1))*(1+22*30*34*((1+25)*(1-27)-1))-1
201		If primary is non tradable and no processed good exists	proportion	(1-31)*((1-24)*(1+26)-1)
202		Selecting CTE_c between lines 196 and 201 according to trading status	proportion	ıula is too long to be displayed here. Please click on the cell to t
203		**CTE_{cp}: Consumers, processed goods**		
204		Importable	proportion	(1+27)*21/162-1
205		Exportable	proportion	(1+27)*21/163-1
206		Non tradable	proportion	(1-34)*((1-25)*(1+27)-1)
207		Selecting CTE_{cp} between lines 204 and 206 according to trading status		IF(14="M",204, IF(14="X",205,206))
208				

209	CONSUMER TAX EQUIVALENT (Intermediate inputs)	**CTE_f: Fertilizers**		
210		Undistorted international price if importable	LC/MT	IF(76<>"n.a.",76*71,78*(1+79)*71)
211		Undistorted international price if exportable	LC/MT	IF(77<>"n.a.",77*71,78*(1+80)*71)
212		Importable	proportion	(1+81)*75/210-1
213		Exportable	proportion	(1+81)*75/211-1
214		Non tradable	proportion	83*((1-82)*(1+81)-1)
215		CTE_f proportion fo farmers	proportion	IF(212<>"n.a.",212*74,IF(213<>"n.a.",213*74,214*74))
216				
217		**CTE_f: Pesticides**		
218		Undistorted international price if importable	LC/MT	IF(88<>"n.a.",88*71,90*(1+91)*71)
219		Undistorted international price if exportable	LC/MT	IF(89<>"n.a.",89*71,90*(1+92)*71)
220		Importable	proportion	(1+93)*87/218-1
221		Exportable	proportion	(1+93)*87/219-1
222		Non tradable	proportion	95*((1-94)*(1+93)-1)
223		CTE_f proportion fo farmers	proportion	IF(220<>"n.a.",220*86,IF(221<>"n.a.",221*86,222*86))
224				
225		**CTE_f: Credit**		
226		CTE_f proportion fo farmers	proportion	98*101*((1-100)*(1+99)-1)
227				
228		**CTE_f: Fuel/electricity**		
229		CTE_f proportion fo farmers	proportion	105*108*((1-107)*(1+106)-1)
230				
231		**CTE_f: Other**		
232		Undistorted international price if importable	LC/MT	IF(113<>"n.a.",113*71,115*(1+116)*71)
233		Undistorted international price if exportable	LC/MT	IF(114<>"n.a.",114*71,115*(1+117)*71)
234		Importable	proportion	(1+118)*112/232-1
235		Exportable	proportion	(1+118)*112/233-1
236		Non tradable	proportion	120*((1-119)*(1+118)-1)
237		CTE_f proportion fo farmers	proportion	IF(234<>"n.a.",234*111,IF(235<>"n.a.",235*111,236*111))
238				
239		**CTE_f: MEMO ITEM: water**		
240		CTE_f proportion fo farmers	proportion	123*126*((1-125)*(1+124)-1)
241				
242		**TOTAL CTE_f**	proportion	215+223+226+229+237
243				
244	DIRECT RATE OF ASSISTANCE	**DRA_f: Farm sector**		
245		If primary is importable	proportion	166-242
246		If primary is exportable	proportion	167-242
247		If primary is non tradable and processed is importable	proportion	168-242
248		If primary is non tradable and processed is exportable	proportion	169-242
249		If primary is non tradable and processed is non tradable	proportion	170-242
250		If primary is non tradable and no processed good exists	proportion	171-242
251		Selecting DRA_f between lines 245 and 250 according to trading status	proportion	172-242
252		**DRA_p: Processing sector**		
253		Importable	proportion	182-193*([either 158 or 159 or (20/(1+179))]/15)/162
254		Exportable	proportion	183-193*([either 158 or 159 or (20/(1+179))]/15)/163
255		Non tradable	proportion	184-193*([either 158 or 159 or (20/(1+179))]/15)/(21/(1+184))
256		Selecting DRA_p between lines 253 and 255 according to trading status	proportion	IF(14="M",253, IF(14="X",254,255))
257				
258	NTBs	Tariff equivalent of NTBs on importable primary product	proportion	(166+1)/(22*(1+24)*(1+(67-71)/71))-1-57
259		Tariff equivalent of NTBs on exportable primary product	proportion	1+58-((167+1)/(22*(1+24)*(1-(71-68)/71)))
260				
261		Tariff equivalent of NTBs on importable processed products	proportion	(182+1)/((1+25)*(1+(69-71)/71))-1-59
262		Tariff equivalent of NTBs on exportable processed products	proportion	1+60-((183+1)/((1+25)*(1-(71-70)/71)))
263				
264	% OF NRA	**% proportion of NRA_f:**		
265		Exchange rate distortions (if importable)	%	(22*(67-71)/71)/(22*((67-71)/71)+24+22*258+22*57)*100
266		Import tariffs (if importable)	%	22*57/(22*((67-71)/71)+24+22*258+22*57)*100
267		Production subsidies (if importable)	%	24/(22*((67-71)/71)+24+22*258+22*57)*100
268		NTBs (if importable)	%	22*258/(22*((67-71)/71)+24+22*258+22*57)*100
269		Exchange rate distortions (if exportable)	%	(-22*(71-68)/71)/(-22*((71-68)/71)+24-22*259+22*58)*100
270		Export subsidies (if exportable)	%	22*58/(-22*((71-68)/71)+24-22*259+22*58)*100
271		Production subsidies (if exportable)	%	24/(-22*((71-68)/71)+24-22*259+22*58)*100
272		NTBs (if exportable)	%	(-22)*259/(-22*((71-68)/71)+24-22*259+22*58)*100
273				
274		**% proportion of NRA_p:**		
275		Exchange rate distortions (if importable)	%	((69-71)/71)/(((69-71)/71)+25+261+59)*100
276		Import tariffs (if importable)	%	59/(((69-71)/71)+25+261+59)*100
277		Production subsidies (if importable)	%	25/(((69-71)/71)+25+261+59)*100
278		NTBs (if importable)	%	261/(((69-71)/71)+25+261+59)*100
279		Exchange rate distortions (if exportable)	%	(-(71-70)/71)/(-((71-70)/71)+25-262+60)*100
280		Export subsidies (if exportable)	%	60/(-((71-70)/71)+25-262+60)*100
281		Production subsidies (if exportable)	%	25/(-((71-70)/71)+25-262+60)*100

282	NTBs (if exportable)	%	(-262)/(-((71-70)/71)+25-262+60)*100

283				
284	% OF DRA	**% proportion of DRA_f:**		
285		CTE_f	%	(-100)*242/251
286				
287		**% proportion of DRA_p:**		
288		CTE_p	%	(-100)*193/256
289				
290	UNDISTORTED PRODUCTION AND CONSUMPTION VALUES (to be used as average weights)	**Value of primary production** (at wholesale undistorted prices)		
291		Importable	LC	4*158
292		Exportable	LC	4*159
293		Non tradable	LC	4*20/(1+[either 176 or 177 or 178])
294		Value of primary prod. from rows 291,292,293 according to trading status	LC	IF(2="M",291,IF(2="X",292,293))
295				
296		**Value of processed production** (at wholesale undistorted prices)		
297		Importable	LC	150*162
298		Exportable	LC	150*163
299		Non tradable	LC	150*21/(1+184)
300		Value of primary prod. from rows 297,298,299 according to trading status	LC	IF(14="M",297,IF(14="X",298,299))
301				
302		**Value of h'hold primary consumption** (at wholesale undistorted price)		
303		Importable	LC	12*158
304		Exportable	LC	12*159
305		Non tradable	LC	12*20/(1+[either 176 or 177 or 178])
306		Value of primary cons. from rows 303,304,305 according to trading status	LC	IF(2="M",303,IF(2="X",304,305))
307				
308		**Value of h'hold processed cons.** (at wholesale undistorted price)		
309		Importable	LC	151*162
310		Exportable	LC	151*163
311		Non tradable	LC	151*21/(1+184)
312		Value of processed cons. from lines 309,310,311 according to trading status	LC	IF(14="M",309,IF(14="X",310,311))
313				
314	DOMESTIC PRICES AND MARGINS (from section1, part 5)	Farm-gate selling price (P_f)	LC/MT	IF(128<>"n.a.",128,IF(OR(129,130="n.a."),"n.a.",130/(1+129)))
315		Markup on farm-gate price (transportation, storage, etc.)	proportion	IF(129<>"n.a.","n.a.",IF(OR(128,130="n.a."),"n.a.",130/128-1))
316		Wholesale price for primary good (P_w) (from line 20)	LC/MT	130
317				
318		**Primary good:**		
319		Retail markup on primary wholesale prices (net of consumption tax)	proportion	.a.",133,IF(OR(130="n.a.",134="n.a.",26="n.a."),"n.a.",134/(130
320		Retail price for primary good (P_r) (including consumption tax)	LC/MT	.a.",134,IF(OR(133="n.a.",130="n.a.",26="n.a."),"n.a.",130*(1+13
321				
322		**Processed goods:**		
323		Markup on primary wholesale price (processing costs, etc.)	proportion	IF(137<>"n.a.",137,IF(OR(130,138="n.a."),"n.a.",138/130-1))
324		Wholesale price for processed goods (P_{wp}) (from line 21)	LC/MT	138
325		Retail markup on processed wholesale prices (net of consumption tax)	proportion	ı.a.",139,IF(OR(140="n.a.",138="n.a.",27="n.a."),"n.a",140/(138*
326		Retail price for processed goods(P_{rp}) (including consumption tax)	LC/MT	.a.",140,IF(OR(138="n.a.",139="n.a.",27="n.a."),"n.a.",138*(1+13
327				
328		Markup on primary wholesale price net of conversion factor	proportion	IF(OR(15="n.a.",130="n.a.",138="n.a."),"n.a.",15*138/130-1)
329				
330	OTHER	Comparison of markup on farm-gate price with NRA_f	%	100*315/172
331				
332		Domestic margins and distortions to primary good (P_f / P_{fob})	proportion	314/159
333				
334		Exchange rate distortions to import (in overall economy)	proportion	(66-71)/71

S1	**SUMMARY, PRIMARY AGRICULTURE**			
S2	**SECTION 1 (Exogenous Data)**			
S3		**Unit**	**Explanation**	**Formula**
S4	**The Remaining 30% of Agricultural Sectors**			
S5	**Value of Production and DRA of 30% Remaining Primary Agricultural Production**			
S6	**Total of 30% (Remaining Primary Agriculture)**			
S7	Value of Production (Importable)	LC	Total Agri import values from FAOSTAT-Sum of import values for the covered commodities	What you need here is the value of production (at undistorted prices) for the remaining 30% of primary agricultural production. This value has to be split up between M,X and H. If you don't have undistorted prices, you'll have to divide the distorted value by (1+NRA).
S8	Value of Production (Exportable)	LC	Total Agri export values from FAOSTAT-Sum of export values for the covered commodities (1955-1961, just assumed to be equal to 1961)	
S9	Value of Production (Nontradable)	LC	Total agri value-(S8-S7)	
S10	DRAguesstimate (Importable)	Proportion	Average tariff for agri sector+overall economy exch rate distortions	DRAguesstimate net of exchange rate distortion here. The exchange rate distortion is added later (in row S125)
S11	DRAguesstimate (Exportable)	Proportion	assumed average of DRA exportable primary*.5	DRAguesstimate net of exchange rate distortion here. The exchange rate distortion is added later (in row S126)
S12	DRAguesstimate (Nontradable)	Proportion		
S13				
S14	**Value of Hhld Consumption and CTE of 30% Remaining Primary Agricultural Production**			
S15	Value of Consumption (Importable)	LC	Assume 70% of production value above	
S16	Value of Consumption (Exportable)	LC	Assume 70% of production value above	
S17	Value of Consumption (Nontradable)	LC	Assume 70% of production value above	
S18	CTEguesstimate (Importable)	Proportion	Average tariff for agri sector+overall economy exch rate distortions+consumer tax	
S19	CTEguesstimate (Exportable)	Proportion	same as S11	
S20	CTEguesstimate (Nontradable)	Proportion		
S21				
S22	**Value of Hhld Consumption and CTE of 30% Remaining Lightly Processed Agricultural Production**			already included in the above
S23	Value of Consumption (Importable)	LC		
S24	Value of Consumption (Exportable)	LC		
S25	Value of Consumption (Nontradable)	LC		
S26	CTEguesstimate (Importable)	Proportion		
S27	CTEguesstimate (Exportable)	Proportion		
S28	CTEguesstimate (Nontradable)	Proportion		
S29				
S30	**Exchange Rate Distortion: Please use an economy wide exchange rate here.**			
S31	**30% Remaining Primary and Lightly Processed Agricultural Production**			
S32	Exchange Rate (Importables, em)	Proportion	Use the variable in row 334 (from the generic spreadsheet)	334
S33	Exchange Rate (Exportables, ex)	Proportion	Use the variable in row 335 (from the generic spreadsheet)	335
S34				
S35	**Non-product specific subsidies net of abnormal taxes for primary agriculture**			
S36	Research & Extension	LC/MT		**n.a**
S37	Agricultural training schools	LC/MT		**n.a**
S38	Inspection Services	LC/MT		**n.a**
S39	marketing and Promotion	LC/MT		**n.a**
S40	Public stockholding	LC/MT		**n.a**
S41	Other	LC/MT		**n.a**
S42	TOTAL	LC/MT	SUM over all non-product specific subsidies	SUM(S36:S41)
S43				
S44	**SECTION 2 (Endogenous Data) (TO BE automatically computed)**			
S45	**Adjusted Nominal Direct Value of Assistance to Farmer (Primary Agriculture) (70%)**			
S46	**Importables**			
S47	Rice	LC	DRAf (Product1,Importable)* Value of primary production (Product1,Importable)	use the relevant cells in the generic spreadsheet
S48	Sugar	LC	DRAf (Product2,Importable)* Value of primary production (Product2,Importable)	use the relevant cells in the generic spreadsheet
S49	Maize	LC	DRAf (Product3,Importable)* Value of primary production (Product3,Importable)	use the relevant cells in the generic spreadsheet

S50	Cassava	LC	DRAf (Product4,Importable)* Value of primary production (Product4,Importable)	use the relevant cells in the generic spreadsheet
S51	Sweet Potatoes	LC	DRAf (Product5,Importable)* Value of primary production (Product5,Importable)	use the relevant cells in the generic spreadsheet
S52	Vanilla	LC	DRAf (Product6,Importable)* Value of primary production (Product6,Importable)	use the relevant cells in the generic spreadsheet
S53	Coffee	LC	DRAf (Product7,Importable)* Value of primary production (Product7,Importable)	use the relevant cells in the generic spreadsheet
S54	Cloves	LC	DRAf (Product8,Importable)* Value of primary production (Product8,Importable)	use the relevant cells in the generic spreadsheet
S55	Cocoa	LC	DRAf (Product9,Importable)* Value of primary production (Product9,Importable)	use the relevant cells in the generic spreadsheet

S56	Pepper	LC	DRAf (Product10,Importable)* Value of primary production (Product10,Importable)	use the relevant cells in the generic spreadsheet
S57	Product11	LC	DRAf (Product11,Importable)* Value of primary production (Product11,Importable)	use the relevant cells in the generic spreadsheet
S58	Product12	LC	DRAf (Product12,Importable)* Value of primary production (Product12,Importable)	use the relevant cells in the generic spreadsheet
S59	Product13	LC	DRAf (Product13,Importable)* Value of primary production (Product13,Importable)	use the relevant cells in the generic spreadsheet
S60	ALL IMPORTABLE PRIMARY AGRICULTURE (70%)	LC	SUM over all Nominal Direct Values of Assistance (Importable)	SUM(S47:S59)
S61				
S62	**Exportables**			
S63	Rice	LC	DRAf (Product1,Exportable)* Value of primary production (Product1,Exportable)	use the relevant cells in the generic spreadsheet
S64	Sugar	LC	DRAf (Product2,Exportable)* Value of primary production (Product2,Exportable)	use the relevant cells in the generic spreadsheet
S65	Maize	LC	DRAf (Product3,Exportable)* Value of primary production (Product3,Exportable)	use the relevant cells in the generic spreadsheet
S66	Cassava	LC	DRAf (Product4,Exportable)* Value of primary production (Product4,Exportable)	use the relevant cells in the generic spreadsheet
S67	Sweet Potatoes	LC	DRAf (Product5,Exportable)* Value of primary production (Product5,Exportable)	use the relevant cells in the generic spreadsheet
S68	Vanilla	LC	DRAf (Product6,Exportable)* Value of primary production (Product6,Exportable)	lightly processed, prim all nontrad
S69	Coffee	LC	DRAf (Product7,Exportable)* Value of primary production (Product7,Exportable)	use the relevant cells in the generic spreadsheet
S70	Cloves	LC	DRAf (Product8,Exportable)* Value of primary production (Product8,Exportable)	use the relevant cells in the generic spreadsheet
S71	Cocoa	LC	DRAf (Product9,Exportable)* Value of primary production (Product9,Exportable)	use the relevant cells in the generic spreadsheet
S72	Pepper	LC	DRAf (Product10,Exportable)* Value of primary production (Product10,Exportable)	use the relevant cells in the generic spreadsheet
S73	Product11	LC	DRAf (Product11,Exportable)* Value of primary production (Product11,Exportable)	use the relevant cells in the generic spreadsheet
S74	Product12	LC	DRAf (Product12,Exportable)* Value of primary production (Product12,Exportable)	use the relevant cells in the generic spreadsheet
S75	Product13	LC	DRAf (Product13,Exportable)* Value of primary production (Product13,Exportable)	use the relevant cells in the generic spreadsheet
S76	ALL EXPORTABLE PRIMARY AGRICULTURE (70%)	LC	SUM over all Nominal Direct Values of Assistance (Exportable)	SUM(S63:S75)
S77				
S78	**Nontradable**			
S79	Rice	LC	DRAf (Product1,nontradable)* Value of primary production (Product1,nontradable)	294*(either 247, 248. 249. 250)
S80	Sugar	LC	DRAf (Product2,nontradable)* Value of primary production (Product2,nontradable)	293*(either 247, 248. 249. 250)
S81	Maize	LC	DRAf (Product3,nontradable)* Value of primary production (Product3,nontradable)	293*(either 247, 248. 249. 250)
S82	Cassava	LC	DRAf (Product4,nontradable)* Value of primary production (Product4,nontradable)	293*(either 247, 248. 249. 250)
S83	Sweet Potatoes	LC	DRAf (Product5,nontradable)* Value of primary production (Product5,nontradable)	293*(either 247, 248. 249. 250)
S84	Vanilla	LC	DRAf (Product6,nontradable)* Value of primary production (Product6,nontradable)	293*(either 247, 248. 249. 250)
S85	Coffee	LC	DRAf (Product7,nontradable)* Value of primary production (Product7,nontradable)	293*(either 247, 248. 249. 250)
S86	Cloves	LC	DRAf (Product8,nontradable)* Value of primary production (Product8,nontradable)	293*(either 247, 248. 249. 250)
S87	Cocoa	LC	DRAf (Product9,nontradable)* Value of primary production (Product9,nontradable)	293*(either 247, 248. 249. 250)
S88	Pepper	LC	DRAf (Product10,nontradable)* Value of primary production (Product10,nontradable)	293*(either 247, 248. 249. 250)
S89	Product11	LC	DRAf (Product11,nontradable)* Value of primary production (Product11,nontradable)	
S90	Product12	LC	DRAf (Product12,nontradable)* Value of primary production (Product12,nontradable)	
S91	Product13	LC	DRAf (Product13,nontradable)* Value of primary production (Product13,nontradable)	
S92	ALL NONTRADABLE PRIMARY AGRICULTURE (70%)	LC	SUM over all Nominal Direct Values of Assistance (Nontradable)	SUM(S79:S91)
S93				
S94	**Total Nominal Direct Value of Assistance to Farmer (Primary Agriculture) (by product) (70%)**			
S95	Rice	LC	SUM(S47,S63,S79)	SUM(S47,S63,S79)
S96	Sugar	LC	SUM(S48,S64,S80)	SUM(S48,S64,S80)
S97	Maize	LC	SUM(S49,S65,S81)	SUM(S49,S65,S81)
S98	Cassava	LC	SUM(S50,S66,S82)	SUM(S50,S66,S82)
S99	Sweet Potatoes	LC	SUM(S51,S67,S83)	SUM(S51,S67,S83)
S100	Vanilla	LC	SUM(S52,S68,S84)	SUM(S52,S68,S84)
S101	Coffee	LC	SUM(S53,S69,S85)	SUM(S53,S69,S85)

S102	Cloves	LC	SUM(S54,S70,S86)	SUM(S54,S70,S86)
S103	Cocoa	LC	SUM(S55,S71,S87)	SUM(S55,S71,S87)
S104	Pepper	LC	SUM(S56,S72,S88)	SUM(S56,S72,S88)
S105	Product11	LC	SUM(S57,S73,S89)	SUM(S57,S73,S89)
S106	Product12	LC	SUM(S58,S74,S90)	SUM(S58,S74,S90)
S107	Product13	LC	SUM(S59,S75,S91)	SUM(S59,S75,S91)
S108	ALL PRIMARY AGRICULTURE (70%)	LC	SUM over all Nominal Direct Value of Assistance of 70% of Primary Agricultural	SUM(S95:S107)
S109				
S110	**Value of Primary Production (Primary Agriculture) (70%)**			
S111	Importables		SUM over Value of Primary Production (Importal	sum up across all importable primary products from the generic spreadsheets
S112	Exportables	LC	1 over Value of Primary Production (Exportal	sum up across all importable primary products from the generic spreadsheets
S113	Nontradables	LC	over Value of Primary Production (Non-Trad	sum up across all importable primary products from the generic spreadsheets
S114	Total (70%)	LC	1 over Value of Primary Production (Total)(7	SUM(S111:S113)
S115				
S116	**DRA, Primary Agriculture (70%)**			
S117	Importables	proportion	SUM over all Nominal Direct Values of Assistance (Importable) / SUM over Value of Primary Production (Importables)	S60 / S111 if only s111#0
S118	Exportables	proportion	SUM over all Nominal Direct Values of Assistance (Exportable) / SUM over Value of Primary Production (Exportables)	S76 / S112
S119	Nontradables	proportion	SUM over all Nominal Direct Values of Assistance (Nontradables) / SUM over Value of Primary Production (Nontradables)	S92 / S113
S120	Total DRA (70%)	proportion	SUM over all Nominal Direct Value of Assistance / SUM over Value of Primary Production (Total)	S108 / S114
S121				
S122	**Sum of Value of Production of Remaining Primary Agricultural Products (30%)**		Value of Production of Remaining Primary Agricultural Imp. + Value of Production of Remaining Primary Agricultural Exp. + Value of Production of Remaining Primary	SUM(S7:S9)
S123				
S124	**DRA, Remaining Primary Agriculture (30%)**			
S125	Importables	proportion	(1 + DRAguesstimate) *(1 + Exchange	(1 + S10) * (1+S32) -1
S126	Exportables	proportion	(1 + DRAguesstimate)*(1 - Exchange Rate	(1 + S11) * (1-S33) -1
S127	Nontradables	proportion	DRAguesstimate	S12
S128	Total DRA (30%)	proportion	Value of Prod. Remaining Prim Imp / (Sum of Value of Prod. of Remaining Prim Agr. Products) * DRAimp + Value of Prod. Remaining Prim Exp / (Sum of Value of Prod. of Remaining Prim Agr. Products) * DRAexp + Value of Prod. Remaining Prim	(S7/S122)*S125 + (S8/S122)*S126 + (S9/S122)*S127
S129	**Adjusted Nominal Direct Value of Assistance to Farmer (Primary Agriculture) (100%)**			
S130	Importables	LC	Value of Production remaining prim IMP (30%) * DRAremaining prim IMP (30%) + SUM over Nominal Direct Value of Assistance of Primary Agriculture IMP	S7*S125 + S60
S131	Exportables	LC	Value of Production remaining prim EXP(30%) * DRAremaining prim EXP(30%) + SUM over Nominal Direct Value of Assistance of Primary Agriculture	S8*S126 + S76
S132	Nontradables	LC	Value of Production remaining prim NTR(30%) * DRAremaining prim NTR(30%) + SUM over Nominal Direct Value of Assistance of Primary Agriculture	S9*S127 + S92
S133	Total Nominal Direct Value of Assistance (100%)	LC	SUM over all Nominal Direct Value of Assistance	SUM (S130:S132)
S134	Total Nominal Direct Value of Assistance , incl. non-product specific taxes (100%)	LC	SUM over all Nominal Direct Value of Assistance + Non-product specific subsidies net of abnormal taxes for primary	SUM (S133,S42)
S135				
S136	**DRA, Primary Agriculture (100%)**			
S137	Importables	proportion	Nominal Direct Values of Assistance of Primary Agr. Production (100%) (Importable) / [Value of Primary Agr. Production (70%) (Importables) + Value of Primary Agr. Production (30%)	S130/(S111+S7)

S138	Exportables	proportion	Nominal Direct Values of Assistance of Primary Agr. Production (100%) (Exportable) / [Value of Primary Agr. Production (70%) (Exportables) + Value of Primary Agr. Production (30%)	S131/(S112+S8)

S139	Nontradables	proportion	Nominal Direct Values of Assistance of Primary Agr. Production (100%) (NTR) / [Value of Primary Agr. Production (70%) (NTR) + Value of Primary Agr. Production (30%) (NTR)]	S132/(S113+S9)
S140	Total DRA (100%)	Proportion	Total Nominal Direct Value of Assistance , incl. non-product specific taxes (100%)/ [Total Value of Primary Agr. Production (70%)+ Total Value of Primary Agr.	S134/(S114+S122)
S141	Total DRA (non-covered and covered) excluding NPS	Proportion	Total Nominal Direct Value of Assistance , excl. non-product specific taxes (non-covered&covered)/ [Total Value of Primary Agr. Production (covered)+ Total Value of Primary Agr. Production (non-	S133/(S114+S122)
S142	**In order to compute this you first need to get the relevant information from the Non-Agricultural Summary**			
S143	**TRA (Total Rate of Assistance) FOR ALL AGRICULTURE**		Total DRA (Primary Agriculture, Total) - Total DRA (ALL Non-Agriculture)	S140 - X247
S144				
S145	**Average CTE, Agriculture (70%) (weighted by Value of Consumption of primary and processed agricultural Production valued at undistorted prices)**			
S146	**Importables**			
S147	Rice	proportion	Value Hhld Cons prim Product1 IMP/(Value Hhld Cons prim Product1 IMP + Value Hhld Cons proc Product1 IMP)*CTEc Product1 IMP + Value Hhld Cons proc Product1 IMP/(Value Hhld Cons prim Product1 IMP + Value Hhld Cons	rice204, when non available , replaced w/ zero, to allow further calculation
S148	Sugar	proportion	"	sugar204
S149	Maize	proportion	"	maize196
S150	Cassava	proportion	"	cassava196
S151	Sweet Potatoes	proportion	"	196
S152	Vanilla	proportion	"	"
S153	Coffee	proportion	"	"
S154	Cloves	proportion	"	"
S155	Cocoa	proportion	"	"
S156	Pepper	proportion	"	"
S157	Product11	proportion	"	"
S158	Product12	proportion	"	"
S159	Product13	proportion	"	"
S160				
S161	**Exportables**			
S162	Rice	proportion	Value Hhld Cons prim Product1 EXP/(Value Hhld Cons prim Product1 EXP + Value Hhld Cons proc Product1 EXP)*CTEc Product1 EXP + Value Hhld Cons proc Product1 EXP/(Value Hhld Cons prim Product1 EXP + Value Hhld Cons	205, when non available , assumed zero, to allow further calculation
S163	Sugar	proportion	"	205, when non available , assumed
S164	Maize	proportion	"	maize197
S165	Cassava	proportion	"	197
S166	Sweet Potatoes	proportion	"	197
S167	Vanilla	proportion	"	"
S168	Coffee	proportion	"	"
S169	Cloves	proportion	"	"
S170	Cocoa	proportion	"	"
S171	Pepper	proportion	"	"
S172	Product11	proportion	"	"
S173	Product12	proportion	"	"
S174	Product13	proportion	"	"
S175				
S176	**Nontradable**			
S177	Rice	proportion	Value Hhld Cons prim Product1 NTR/(Value Hhld Cons prim Product1 NTR + Value Hhld Cons proc Product1 NTR)*CTEc Product1 NTR + Value Hhld Cons proc Product1 NTR/(Value Hhld Cons prim Product1 NTR + Value Hhld	202
S178	Sugar	proportion	"	"
S179	Maize	proportion	"	if f2=h, 202
S180	Cassava	proportion	"	"
S181	Sweet Potatoes	proportion	"	"
S182	Vanilla	proportion	"	"
S183	Coffee	proportion	"	"
S184	Cloves	proportion	"	"
S185	Cocoa	proportion	"	"
S186	Pepper	proportion	"	"
S187	Product11	proportion	"	"
S188	Product12	proportion	"	"
S189	Product13	proportion	"	"

S190				
S191	**Sum of Value of Hhld Consumption of Primary Agricultural Production (70%)**			
S192	Importables	LC	Sum of Value of Cons of all prim agr product IMP	sum up across all importable products from the generic spreadsheets
S193	Exportables	LC	Sum of Value of Cons of all prim agr product EXP	sum up across all exportable products from the generic spreadsheets
S194	Nontradables	LC	Sum of Value of Cons of all prim agr product NTR	sum up across all nontradable products from the generic spreadsheets
S195	Total (70%)	LC	Sum of Value of Cons of all prim agr product	SUM(S192:S194)
S196				
S197	**Sum of Value of Hhld Consumption of Lightly Processed Agricultural Production (70%)**			
S198	Importables	LC	Sum of Value of Cons of all proc agr product IMP	sum up across all importable products from the generic spreadsheets
S199	Exportables	LC	Sum of Value of Cons of all proc agr product EXP	sum up across all exportable products from the generic spreadsheets
S200	Nontradables	LC	Sum of Value of Cons of all proc agr product NTR	sum up across all nontradable products from the generic spreadsheets
S201	Total (70%)	LC	Sum of Value of Cons of all proc agr product	SUM(S198:S200)
S202				
S203	**Sum of Value of Hhld Consumption of Agricultural products and lightly processed food (70%)**			
S204	Importables		Sum of Value of Cons of all agr product	S192 + S198
S205	Exportables		Sum of Value of Cons of all agr product	S193 + S199
S206	Nontradables		Sum of Value of Cons of all agr product	S194 + S200
S207	Total (70%)		Sum of Value of Cons of all agr product	S195 + S201
S208				
S209	**Average CTE, Agriculture (70%) (weighted by Value of Consumption of primary and processed agricultural Production valued at undistorted prices)**			
S210	CTE, ALL Importables (70%)(rice, sugar, maize)	Proportion	Value of Cons product1 IMP/(Sum of Value of Cons of all agr product IMP)*CTEproduct1 IMP + Value of Cons product2 IMP/(Sum of Value of Cons of all agr product IMP)*CTEproduct2 IMP +	Value of Cons product1 IMP/S204*S147 + Value of Cons product2 IMP/S204*S148 + …
S211	CTE, ALL Exportables (70%)	Proportion	Value of Cons product1 EXP/(Sum of Value of Cons of all agr product EXP)*CTEproduct1 EXP + Value of Cons product2 EXP/(Sum of Value of Cons of all agr product EXP)*CTEproduct2 EXP + …	Value of Cons product1 EXP/S205*S162 + Value of Cons product2 EXP/S205*S163 + …
S212	CTE, ALL Nontradables (70%)	Proportion	Value of Cons product1 NTR/(Sum of Value of Cons of all agr product NTR)*CTEproduct1 NTR + Value of Cons product2 NTR/(Sum of Value of Cons of all agr product NTR)*CTEproduct2 NTR + …	Value of Cons product1 NTR/S206*S177 + Value of Cons product2 NTR/S206*S178 + …
S213	Total CTE of primary agriculture (70%)	Proportion	(Sum of Value of Hhld Consumption of Agricultural Production IMP/Sum of Value of Hhld Consumption of Agricultural Production)*CTEall IMP + (Sum of Value of Hhld Consumption of Agricultural	(S204/S207)*S210 + (S205/S207)*S211 + (S206/S207)*S212 (removed(S205/S207)*S211 for 55 to 65)
S215	**Sum of Value of Hhld Consumption of Remaining Primary Agricultural Products (30%)**	LC	Value of Hhld Cons of Remaining Primary Agricultural Imp. + Value of Hhld Cons of Remaining Primary Agricultural Exp. + Value of Hhld Cons of Remaining Primary Agricultural NonTR	SUM(S15:S17)
S216				
S217	**Sum of Value of Hhld Consumption of Remaining Lightly Processed Food Products (30%)**	LC	Value of Hhld Cons of Remaining Processed Agricultural Imp. + Value of Hhld Cons of Remaining Processed Agricultural Exp. + Value of Hhld Cons of Remaining Processed Agricultural NonTR	SUM(S23:S25)
S218				
S219				
S220	**CTE, Total Remaining Primary Agriculture (Remaining 30%)**			
S221	Importables	proportion	(1 + CTEguesstimate,primary) *(1+	(1 + S18) *(1+ S32) -1
S222	Exportables	proportion	(1 + CTEguesstimate,primary)*(1 -	(1 + S19)*(1-S33) -1
S223	Nontradables	proportion	CTEguesstimate,primary	S20
S224	Total CTE remaining primary (30%)	proportion	Value of Cons Remaining Prim Imp/(Sum of Value of Cons of Remaining Prim Agricultural Products)*CTEimp + Value of Cons Remaining Prim Exp/(Sum of Value	(S15/S215)*S221 + (S16/S215)*S222 + (S17/S215)*S223

S225				
S226	**CTE, Total Remaining Lightly Processed Food (Remaining 30%)**			
S227	Importables	proportion	(1 + CTEguesstimate,processed) *(1 + Exchange Rate Dist(em)) -1	(1+ S26)*(1 + S32) -1
S228	Exportables	proportion	(1 + CTEguesstimate,processed) * (1 + Exchange Rate Dist(ex)) -1	(1 + S27)*(1- S33) -1
S229	Nontradables	proportion	CTEguesstimate,processed	S28
S230	Total CTE remaining processed (30%)	proportion	Value of Cons Remaining Prim Imp/(Sum of Value of Cons of Remaining Prim Agricultural Products)*CTEimp + Value of Cons Remain Primary Exp/(Sum of Value of Cons of Remaining Prim Agricultural	(S23/S217)*S227+ (S24/S217)*S228 + (S25/S217)*S229
S231				
S232	**Average CTE of Remaining 30% Agriculture and Food (weighted by Value of Consumption of primary and processed agricultural Production valued at undistorted prices)**			
S233	Importables	proportion	Value Hhld Cons remaining primary product IMP/(Value Hhld Cons remaining primary product IMP + Value Hhld Cons	S15/(S15+S23)*S221 + S23/(S15+S23)*S227
S234	Exportables	proportion	"	S16/(S16+S24)*S222 + S24/(S16+S24)*S228
S235	Nontradables	proportion	"	S17/(S17+S25)*S223 + S25/(S17+S25)*S229
S236	Total CTE remaining agriculture and food (30%)	proportion	alue Hhld Cons remaining prim product)*CT	(S15+S23)/(S215+S217)*S233 + (S16+S24)/(S215+S217)*S234 + (S17+S25)/(S215+S217)*S235
S237				
S238	**Average CTE of all Agriculture (100%) (weighted by Value of Consumption of primary and processed agricultural Production valued at undistorted prices)**			
S239	Importables	proportion	Sum of Value of Cons of all agr product IMP/(Sum of Value of Cons of all agr product IMP+Value of Hhld Cons of Remaining Primary Agricultural Imp.+Value of Hhld Cons of Remaining Proc Agricultural Imp.)*CTEall IMP +	(S15+S23)/(S204+S15+S23)*S233 + (S204)/(S204+S15+S23)*S210
S240	Exportables	proportion	"	(S16+S24)/(S205+S16+S24)*S234 + (S205)/(S205+S16+S24)*S211
S241	Nontradables	proportion	"	(S17+S25)/(S206+S17+S25)*S235 + (S206)/(S206+S17+S25)*S212
S242	Total CTE agriculture and food (100%)	proportion	(Sum of Value of Cons of all agr product IMP+Value of Hhld Cons of Remaining Primary Agricultural Imp.+Value of Hhld Cons of Remaining Proc Agricultural Imp.)/(Sum of Value of Cons of all agr product+Sum of Value of Hhld	(S204+S15+S23)/(S207+S215+S217)*239+(S205+S16+S24)/(S207+S215+S217)*240+(S206+S17+S25)/(S207+S215+S217)*241

X1	**SUMMARY NON-AGRICULTURE**	**Unit**	**Explanation**	**Source/Formula**
X2	**SECTION 1 (required data series)**			
X3	**FOOD PROCESSORS I (lightly processed food products)**			
X4	**Value of Production of Importable, Exportable and Nontradable in REMAINING Lightly Processed Food Production (30%)**			
X5	IMPORTABLE	LC		assumed zero
X6	EXPORTABLE	LC		assumption 5% of primary
X7	NONTRADABLE	LC		assumption 25% of primary
X8				
X9	**Share of TOTAL (100%) lightly processed food production in total NON-Agricultural production**	proportion	**rice, maize, cassava, milk, ...**	assumption
X10	**FOOD PROCESSORS II (highly processed food products)**			
X11	**Share of Importable, Exportable and Nontradable in total highly processed food production**			
X12	IMPORTABLE	proportion		
X13	EXPORTABLE	proportion		
X14	NONTRADABLE	proportion		
X15				
X16	**Share of highly processed food production in total NON-Agricultural production**	proportion	**projet madio (share of proc food production in the total non-ag "formal" sector**	
X17	**NON-AGRICULTURAL PRIMARY PRODUCERS**			
X18	**Share of Importable, Exportable and Nontradable in total Non-Agricultural Primary Production**			
X19	IMPORTABLE	proportion		computed from WDI, available only from 1965, the rest assumed
X20	EXPORTABLE	proportion		computed from WDI, available only from 1965
X21	NONTRADABLE	proportion		computed from WDI,
X22				
X23	**Share of non-agricultural primary products in total NON-Agricultural production**	proportion		guess
X24	**NON-FOOD MANUFACTURES**			
X25	**Share of Importable, Exportable and Nontradable in total Non-Food Manufactures**			
X26	IMPORTABLE	proportion		WDI
X27	EXPORTABLE	proportion		WDI
X28	NONTRADABLE	proportion		Deducted
X29				
X30	**Share of non-food manufactures in total NON-Agricultural production**	proportion	**Assumed as share of non-food value-added**	wdi
X31	**SERVICES**			
X32	**Share of Importable, Exportable and Nontradable in total Services**			
X33	IMPORTABLE	proportion	**Insurance, Financial services, telecommunications, transportations**	guess
X34	EXPORTABLE	proportion	**Tourism, EPZ(increase from 1994)**	guess
X35	NONTRADABLE	proportion		guess
X36				
X37	**Share of services in total NON-Agricultural production**	proportion	**crude assumption**	1-x30-x23-x16-x9
X38				
X39	**FOOD PROCESSORS I (remaining lightly processed food products) (30%)**			
X40	**DRAguesstimate (REMAINING lightly processed food production) (30%)**			
X41	**IMPORTABLE**			
X42	Import tariff	proportion	**Average import tariff on lightly processed products(rice) applied throughout years**	
X43	NTB	proportion		
X46			**assumed exchange rate distortions**	
X47	**EXPORTABLE**			
X48	Export Subsidy	proportion	**zero**	
X49	NTB	proportion		
X52				
X53	**NONTRADABLE**			
X54	DRAguesstimate	proportion	**zero**	
X56				

VALUE AND SHARE INFORMATION FOR WEIGHTING PURPOSES

X57		**FOOD PROCESSORS II (highly processed food products)**			
X58		**DRAguesstimate (highly processed food production)**			
X59		**IMPORTABLE**			
X60	DRA INFORMATION	Import tariff	proportion	**Average applied MFN tariff rates, Wto, 2001**	
X61		NTB	proportion	**assumed exchange rate distortions**	
X64					
X65		**EXPORTABLE**			
X66		Export Subsidy	proportion	**zero, but there are some subsidy equivalent for EPZ due to many tax**	
X67		NTB	proportion		
X70					
X71		**NONTRADABLE**			
X72		DRAguesstimate	proportion		
X74					
X75		**NON-AGRICULTURAL PRIMARY PRODUCERS**			
X76		**DRAguesstimate (non-agricultural primary production)**			
X77		**IMPORTABLE**			
X78		Import tariff	proportion	average applied MFN tariff rates, Wto, 2001,pp30, used throughout	
X79		NTB	proportion		
X82					
X83		**EXPORTABLE**			
X84		Export Subsidy	proportion		
X85		NTB	proportion		
X88					
X89		**NONTRADABLE**			
X90		DRAguesstimate	proportion		
X92					
X93		**NON-FOOD MANUFACTURES**			
X94		**DRAguesstimate (non-food manufactures)**			
X95		**IMPORTABLE**			
X96		Import tariff	proportion	Average tariff for manufacture, WTO, 2001, pp47	
X97		NTB	proportion		
X100					
X101		**EXPORTABLE**			
X102		Export Subsidy	proportion		
X103		NTB	proportion		
X106					
X107		**NONTRADABLE**			
X108		DRAguesstimate	proportion		
X110					
X111		**SERVICES**			
X112		**DRAguesstimate (services)**			
X113		**IMPORTABLE**			
X114		Import tariff	proportion		
X115		NTB	proportion		
X118					
X119		**EXPORTABLE**			
X120		Export Subsidy	proportion		
X121		NTB	proportion		
X124					
X125		**NONTRADABLE**			
X126		DRAguesstimate	proportion		
X128					
X129		**Exchange Rate Distortion: Please use an economy wide exchange rate here.**			
X130		Exchange Rate (Importables, em)	proportion	Use the variable in row 334 (from the generic spreadsheet)	
X131		Exchange Rate (Exportables, ex)	proportion	Use the variable in row 335 (from the generic spreadsheet)	
X132					
X133		**SECTION 2 (Endogenous Data) (TO BE automatically computed)**			
X134		**FOOD PROCESSORS I (lightly processed food products) (70%)**			
X135		**Nominal Direct Value of Assistance to Food Processors I (70%)**			
X136		**Importables**			
X137		Rice	LC	DRAf (Processed Product1,Importable)* Value of processed production (Processed Product1,Importable)	use the relevant cells from the generic spreadsheet
X138		Sugar	LC	DRAf (Processed Product2,Importable)* Value of processed production (Processed Product2,Importable)	use the relevant cells from the generic spreadsheet
X139		Vanilla	LC	DRAf (Processed Product3,Importable)* Value of processed production (Processed Product3,Importable)	use the relevant cells from the generic spreadsheet
X140		Processed Product4	LC	DRAf (Processed Product4,Importable)* Value of processed production (Processed Product4,Importable)	use the relevant cells from the generic spreadsheet
X141		Processed Product5	LC	DRAf (Processed Product5,Importable)* Value of processed production (Processed Product5,Importable)	use the relevant cells from the generic spreadsheet
X142		ALL IMPORTABLE LIGHTLY PROCESSED FOOD (70%)	LC	SUM over all Nominal Direct Values of Assistance (Importable)	SUM(X137:X141)

X143				
X144	**Exportables**			
X145	Rice	LC	DRAf (Processed Product1,Exportable)* Value of processed production (Processed Product1,Exportable)	use the relevant cells from the generic spreadsheet
X146	Sugar	LC	DRAf (Processed Product2,Exportable)* Value of processed production (Processed Product2,Exportable)	use the relevant cells from the generic spreadsheet
X147	Vanilla	LC	DRAf (Processed Product3,Exportable)* Value of processed production (Processed Product3,Exportable)	use the relevant cells from the generic spreadsheet
X148	Processed Product4	LC	DRAf (Processed Product4,Exportable)* Value of processed production (Processed Product4,Exportable)	use the relevant cells from the generic spreadsheet
X149	Processed Product5	LC	DRAf (Processed Product5,Exportable)* Value of processed production (Processed Product5,Exportable)	use the relevant cells from the generic spreadsheet
X150	ALL EXPORTABLE LIGHTLY PROCESSED FOOD (70%)	LC	SUM over all Nominal Direct Values of Assistance (Exportable)	SUM(X145:X149)
X151				
X152	**Nontradable**			
X153	Rice	LC	DRAf (Processed Product1,Nontradable)* Value of processed production (Processed Product1,Nontradable)	use the relevant cells from the generic spreadsheet
X154	Sugar	LC	DRAf (Processed Product2,Nontradable)* Value of processed production (Processed Product2,Nontradable)	use the relevant cells from the generic spreadsheet
X155	Vanilla	LC	DRAf (Processed Product3,Nontradable)* Value of processed production (Processed Product3,Nontradable)	use the relevant cells from the generic spreadsheet
X156	Processed Product4	LC	DRAf (Processed Product4,Nontradable)* Value of processed production (Processed Product4,Nontradable)	use the relevant cells from the generic spreadsheet
X157	Processed Product5	LC	DRAf (Processed Product5,Nontradable)* Value of processed production (Processed Product5,Nontradable)	use the relevant cells from the generic spreadsheet
X158	ALL NONTRADABLE LIGHTLY PROCESSED FOOD (70%)	LC	SUM over all Nominal Direct Values of Assistance (Nontradable)	SUM(X153:X157)
X159				
X160	**Total Nominal Direct Value of Assistance to Food Processors I (by Product) (70%)**			
X161	Rice	LC	SUM[Nominal Direct Value of Assistance of Processed Product1 (Imp),Nominal Direct Value of Assistance of Processed Product1 (Exp),Nominal Direct Value of Assistance of Processed Product1 (NTR)]	SUM(X137, X145, X153)
X162	Sugar	LC	SUM[Nominal Direct Value of Assistance of Processed Product2 (Imp), Nominal Direct Value of Assistance of Processed Product2 (Exp), Nominal Direct Value of Assistance of Processed Product2 (NTR)]	SUM(X138, X146, X154)
X163	Vanilla	LC	SUM[Nominal Direct Value of Assistance of Processed Product3 (Imp),Nominal Direct Value of Assistance of Processed Product3 (Exp), Nominal Direct Value of Assistance of Processed Product3 (NTR)]	SUM(X139, X147, X155)
X164	Processed Product4	LC	SUM[Nominal Direct Value of Assistance of Processed Product4 (Imp), Nominal Direct Value of Assistance of Processed Product4 (Exp), Nominal Direct Value of Assistance of Processed Product4 (NTR)]	SUM(X140, X148, X156)
X165	Processed Product5	LC	SUM[Nominal Direct Value of Assistance of Processed Product5 (Imp), Nominal Direct Value of Assistance of Processed Product5 (Exp), Nominal Direct Value of Assistance of Processed Product5 (NTR)]	SUM(X141, X149, X157)
X166	TOTAL LIGHTLY PROCESSED FOOD (70%)	LC	TOTAL Nominal Direct Value of Assistance of Lightly Processed Products	SUM(X161:X165)
X167				
X168	**DRA (lightly processed food production) (70%)**			
X169	IMPORTABLE	proportion	SUM over all Nominal Direct Values of Assistance (Importable) / SUM over Value of Processed Production (Importables)	X142/SUM over Value of Processed Production (Importables)
X170	EXPORTABLE	proportion	SUM over all Nominal Direct Values of Assistance (Exportable) / SUM over Value of Processed Production (Exportables)	X150/SUM over Value of Processed Production (Exportables)
X171	NONTRADABLE	proportion	SUM over all Nominal Direct Values of Assistance (Nontradables) / SUM over Value of Processed Production (Nontradables)	X158/SUM over Value of Processed Production (Nontradables)
X172	TOTAL DRA TO FOOD PROCESSORS I (70%)	proportion	SUM over all Nominal Direct Value of Assistance / SUM over Value of Processed Production (Total)	X166/SUM over Value of Processed Production
X173				
X174	**FOOD PROCESSORS I (REMAINING lightly processed food products) (30%)**			
X175	**DRA (REMAINING lightly processed food products) (30%)**			
X176	IMPORTABLE	proportion	(1+Tariff+NTB)*(1+Exchange rate distortion (em))-1	(1+X42+X43)*(1+X130)-1
X177	EXPORTABLE	proportion	(1+Subsidy+NTB) *(1 - Exchange rate distortion (ex))-1	(1+X48+X49)*(1-X131)-1
X178	NONTRADABLE	proportion	DRAguesstimate	X54
X179	TOTAL DRA TO FOOD PROCESSORS I (REMAINING) (30%)	proportion	DRAprocI(Imp)*Share of Importable in 30% lightly processed food production + DRAprocI(Exp)*Share of Exportable in 30% lightly processed food production + DRAprocI(NonTR)*Share of NonTR in 30% lightly processed food production	X5/SUM(X5:X7)*X176+X6/SUM(X5:X7)*X177+X7/SUM(X5:X7)*X178
X180	**FOOD PROCESSORS I (lightly processed food products) (100%)**			
X181	**Value of Lightly Processed Food Production (TOTAL) (100%)**			
X182	Importables	LC	SUM over Value of Lightly Processed Production (Importables) + SUM over Value of Remaining Processed Production (Importables)	SUM over Value of Lightly Processed Production (Importables) + X5
X183	Exportables	LC	SUM over Value of Lightly Processed Production (Exportables) + SUM over Value of Remaining Processed Production (Exportables)	SUM over Value of Lightly Processed Production (Exportables) + X6
X184	Nontradables	LC	SUM over Value of Lightly Processed Production (Non-Tradables) + SUM over Value of Remaining Processed Production (Nontradables)	SUM over Value of Lightly Processed Production (Nontradables) + X7
X185	Total (100%)	LC	SUM over Value of Lightly Processed Production (Total)	SUM(X182:X184)

X186				
X187	**Share of Importable, Exportable and Nontradable in total lightly processed food production (TOTAL) (100%)**			
X188	IMPORTABLE	proportion	[SUM over Value of Lightly Processed Production (Importables) + SUM over Value of Remaining Processed Production (Importables)]/ SUM over Value of Processed Production (Total)	X182/X185
X189	EXPORTABLE	proportion	[SUM over Value of Lightly Processed Production (Exportables) + SUM over Value of Remaining Processed Production (Exportables)] / SUM over Value of Processed Production (Total)	X183/X185
X190	NONTRADABLE	proportion	[SUM over Value of Lightly Processed Production (Non-Tradables) + SUM over Value of Remaining Processed Production (Nontradables)] / SUM over Value of Processed Production (Total)	X184/X185
X191				
X192	**DRA (lightly processed food production) (TOTAL) (100%)**			
X193	IMPORTABLE	proportion	SUM over Value of Lightly Proc Production (Imp)/(SUM over Value of Lightly Proc Production (Imp) + SUM over Value of Remaining Proc Production (Imp))*DRA70 IMP+SUM over Value of Remaining Proc Production (Imp)/(SUM over Value of Lightly Proc Production (I	SUM over Value of Processed Production (Importables)/X182*X169 + X5/X182*X176
X194	EXPORTABLE	proportion	SUM over Value of Lightly Proc Production (Exp)/(SUM over Value of Lightly Proc Production (Exp) + SUM over Value of Remaining Proc Production (Exp))*DRA70 EXP+SUM over Value of Remaining Proc Production (Exp)/(SUM over Value of Lightly Proc Production (E	SUM over Value of Processed Production (Exportables)/X183*X170 + X6/X183*X177
X195	NONTRADABLE	proportion	SUM over Value of Lightly Proc Production (NTR)/(SUM over Value of Lightly Proc Production (NTR) + SUM over Value of Remaining Proc Production (NTR))*DRA70 NTR+SUM over Value of Remaining Proc Production (NTR)/(SUM over Value of Lightly Proc Production (N	SUM over Value of Processed Production (Nontradables)/X184*X171 + X7/X184*X178
X196	TOTAL DRA TO FOOD PROCESSORS I (TOTAL) (100%)	proportion	SUM over Value of Lightly Proc Production /(SUM over Value of Lightly Proc Production + SUM over Value of Remaining Proc Production)*DRA70 TOTAL+SUM over Value of Remaining Proc Production/(SUM over Value of Lightly Proc Production + SUM over	X188*X193 + X189*X194 + X190*X195
X197				
X198	**FOOD PROCESSORS II (highly processed food products)**			
X199	**DRA (highly processed food production)**			
X200	IMPORTABLE	proportion	(1+Tariff+NTB)*(1+Exchange rate distortion (em))-1	(1+X60+X61)*(1+X130)-1
X201	EXPORTABLE	proportion	(1+Subsidy+NTB) *(1 - Exchange rate distortion (ex))-1	(1+X66+X67)*(1-X131)-1
X202	NONTRADABLE	proportion	DRAguesstimate	X72
X203	TOTAL DRA TO FOOD PROCESSORS II	proportion	DRAprocII(Imp)*Share of Importable in total highly processed food production + DRAprocII(Exp)*Share of Exportable in total highly processed food production + DRAprocII(NonTR)*Share of NonTR in total highly processed food production	X12*X200 + X13*X201 + X14*X202
X204				
X205	**NON-AGRICULTURAL PRIMARY PRODUCERS**			
X206	**DRA (non-agricultural primary products)**			
X207	IMPORTABLE	proportion	(1+Tariff+NTB)*(1+Exchange rate distortion (em))-1	(1+X78+X79)*(1+X130)-1
X208	EXPORTABLE	proportion	(1+Subsidy+NTB) *(1 - Exchange rate distortion (ex))-1	(1+X84+X85) *(1 - X131)-1
X209	NONTRADABLE	proportion	DRAguesstimate	X90
X210	TOTAL DRA TO NON-AGRICULTURAL PRIMARY PRODUCERS	proportion	DRAnonag(Imp)*Share of Importable in total non-agricultural primary production + DRAnonag(Exp)*Share of Exportable in total non-agricultural primary production + DRAnonag(NonTR)*Share of NonTR in total non-agricultural primary production	X19*X207 + X20*X208 + X21*X209
X211				
X212	**NON-FOOD MANUFACTURES**			
X213	**DRA (non-food manufactures)**			
X214	IMPORTABLE	proportion	(1+Tariff+NTB)*(1+Exchange rate distortion (em))-1	(1+X96+X97)*(1+X130)-1
X215	EXPORTABLE	proportion	(1+Subsidy+NTB) *(1 - Exchange rate distortion (ex))-1	(1+X102+X103)*(1-X131)-1
X216	NONTRADABLE	proportion	DRAguesstimate	X108
X217	TOTAL DRA TO NON-FOOD MANUFACTURES	proportion	DRAnonfood(Imp)*Share of Importable in total non-food manufactures + DRAnonfood(Exp)*Share of Exportable in total non-food manufactures + DRAnonfood(NonTR)*Share of NonTR in total non-food manufactures	X26*X214 + X27*X215 + X28*X216
X218	**SERVICES**			
X219	**DRA (services)**			
X220	IMPORTABLE	proportion	(1+Tariff+NTB)*(1+Exchange rate distortion (em))-1	(1+X114+X115)*(1+X130)-1
X221	EXPORTABLE	proportion	(1+Subsidy+NTB) *(1 - Exchange rate distortion (ex))-1	(1+X120+X121)*(1-X131)-1
X222	NONTRADABLE	proportion	DRAguesstimate	X126
X223	TOTAL DRA TO SERVICES	proportion	DRAservices(Imp)*Share of Importable in total services + DRAservices(Exp)*Share of Exportable in total services + DRAservices(NonTR)*Share of NonTR in total services	X33*X220 + X34*X221 + X35*X222
X224				

X225	**SHARES OF EACH SECTOR'S IMPORTABLE, EXPORTABLE AND NONTRADABLE IN TOTAL NON-AGRICULTURAL PRODUCTION**			
X226	lightly processed agricultural products IMPORTABLE share in total NON-Agricultural production (TOTAL)	proportion	Share of Importable in total lightly processed food production * Share of lightly processed food production in total NON-Agricultural production	X188 * X9
X227	lightly processed agricultural products EXPORTABLE share in total NON-Agricultural production (TOTAL)	proportion	Share of Importable in total lightly processed food production * Share of lightly processed food production in total NON-Agricultural production	X189 * X9
X228	lightly processed agricultural products NONTRADABLE share in total NON-Agricultural production (TOTAL)	proportion	Share of Importable in total lightly processed food production * Share of lightly processed food production in total NON-Agricultural production	X190 * X9
X229	highly processed agricultural products IMPORTABLE share in total NON-Agricultural production	proportion	Share of Importable in total highly processed food production * Share of highly processed food production in total NON-Agricultural production	X12 * X16
X230	highly processed agricultural products EXPORTABLE share in total NON-Agricultural production	proportion	Share of Exportable in total highly processed food production * Share of highly processed food production in total NON-Agricultural production	X13 * X16
X231	highly processed agricultural products NONTRADABLE share in total NON-Agricultural production	proportion	Share of Nontradable in total highly processed food production * Share of highly processed food production in total NON-Agricultural production	X14 * X16
X232	non-agricultural primary products IMPORTABLE share in total NON-Agricultural production	proportion	Share of Importable in total non-agricultural primary production * Share of non-agricultural primary production in total NON-Agricultural production	X19 * X23
X233	non-agricultural primary products EXPORTABLE share in total NON-Agricultural production	proportion	Share of Exportable in total non-agricultural primary production * Share of non-agricultural primary production in total NON-Agricultural production	X20 * X23
X234	non-agricultural primary products NONTRADABLE share in total NON-Agricultural production	proportion	Share of Nontradable in total non-agricultural primary food production * Share of non-agricultural primary food production in total NON-Agricultural production	X21 * X23
X235	non-food manufactures IMPORTABLE share in total NON-Agricultural production	proportion	Share of Importable in total non-food manufactures * Share of non-food manufactures in total NON-Agricultural production	X26 * X30
X236	non-food manufactures EXPORTABLE share in total NON-Agricultural production	proportion	Share of Exportable in total non-food manufactures * Share of non-food manufactures in total NON-Agricultural production	X27 * X30
X237	non-food manufactures NONTRADABLE share in total NON-Agricultural production	proportion	Share of Nontradable in total non-food manufactures * Share of non-food manufactures in total NON-Agricultural production	X28 * X30
X238	services IMPORTABLE share in total NON-Agricultural production	proportion	Share of Importable in total services * Share of services in total NON-Agricultural production	X33 * X37
X239	services EXPORTABLE share in total NON-Agricultural production	proportion	Share of Exportable in total services * Share of services in total NON-Agricultural production	X34 * X37
X240	services NONTRADABLE share in total NON-Agricultural production	proportion	Share of Nontradable in total services * Share of services in total NON-Agricultural production	X35 * X37
X241				This should add up to 1 too.
X242	**ALL NON-AGRICULTURAL SECTORS**			
X243	**DRA to ALL NON-AGRICULTURAL SECTORS**			
X244	IMPORTABLE	proportion	(lightly processed agricultural products IMP share in total IMP NON-Agr. production*DRAlightly proc imp)+(highly processed agricultural products IMP share in total IMP NON-Agr. production*DRAhighly proc imp)+…	X226/SUM(X226,X229,X232,X235, X238) * X193 + X229/SUM(X226,X229,X232,X235, X238) * X200 + X232/SUM(X226,X229,X232,X235, X238) * X207 +
X245	EXPORTABLE	proportion	(lightly processed agricultural products EXP share in total EXP NON-Agr. production*DRAlightly proc exp)+(highly processed agricultural products EXP share in total EXP NON-Agr. Production*DRAhighly proc exp)+…	X227/SUM(X227,X230,X233,X236, X239) * X194 + X230/SUM(X227,X230,X233,X236, X239) * X201 + X233/SUM(X227,X230,X233,X236,
X246	NONTRADABLE	proportion	(lightly processed agricultural products NTR share in total NTR NON-Agr. production*DRAlightly proc ntr)+(highly processed agricultural products NTR share in total NTR NON-Agr. production*DRAhighly proc ntr)+…	X228/SUM(X228,X231,X234,X237, X240) * X195 + X231/SUM(X228,X231,X234,X237, X240) * X202 +
X247	TOTAL DRA TO ALL NON-AGRICULTURE	proportion	Share of lightly proc prod. in total NON-Agr. production*DRAlightly proc + Share of highly proc prod. in total NON-Agr. production*DRAhighly proc + Share of non-agr prod. in total NON-Agr. production*DRAnon-agr + Share of non-food mnfcs in total NON-Agr.	X196*X9 + X203*X16 + X210*X23 + X217*X30 + X223*X37

Table ?: Nominal rates of assistance to agricultural industries, Madagascar, time coverage

	1966-69	1970-74	1975-79	1980-84	1985-89	1990-94	1995-99
Importables	**#DIV/0!**	**-28**	**-20**	**-42**	**-3**	**-2**	**-1**
Exportables	**-27**	**-18**	**-61**	**-74**	**-64**	**-33**	**-18**
Vanilla	-52	-39	-57	-76	-85	-78	-28
Cocoa	-32	-30	-71	-68	-60	-26	-23
Pepper	-34	-4	-39	-47	-80	-30	-62
Cloves	-45	-18	-81	-92	-85	-63	-27
Coffee	-27	-15	-63	-74	-59	-29	-13
Nontradables	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Sweet Potatoes	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0
Mixed Trade Status							
Rice	-23	-22	-20	-42	-3	-2	-1
Maize	-28	3	18	-4	-7	29	-14
Sugar	-2	-1	-2	-1	0	0	-1
Total NRA of above	**-24**	**-20**	**-38**	**-51**	**-26**	**-7**	**-4**
Standard deviation	**23.3**	**23.3**	**35.6**	**37.2**	**39.8**	**37.1**	**28.7**
NRAft	-24	-21	-42	-57	-38	-17	-8
Share of above products in total gross value of agricultural production	44	54	71	75	68	71	72

2000-03
7
-29
-13
-19
-10
-19
-38
0
0
0
7
30
-1
0
23.8
-1
66

NRAf for all crops and all years

	1957	1958	1959	1960	1961	1962	1963	1964	1965
NRA of Non-Covered Products	0.00177	0.00177	0.00177	0.002062207	0.002121212	0.001843131	0.00216286	0.002015415	0.001645376
NRA 100%	#VALUE!	#VALUE!	#VALUE!	#VALUE!	-0.084939844	-0.048193598	-0.070532423	-0.081101906	
Non-product specific input assistance	#VALUE!	#VALUE!	#VALUE!	#VALUE!	0	0	0	0	
DRA 100%	#VALUE!	#VALUE!	#VALUE!	#VALUE!	-0.084939844	-0.048193598	-0.070532423	-0.081101906	
DRA tr									
All Agriculture	0.014328202	0.013203543	0.013249194	-0.082678168	-0.223445233	-0.126602772	-0.16935266	-0.190011036	
All Non-Agriculture	#VALUE!	#VALUE!	#VALUE!	#VALUE!	0.115958036	0.099029884	0.124294781	0.111003185	0.12362886
RRA	#VALUE!	#VALUE!	#VALUE!	#VALUE!	-0.304136229	-0.205301656	-0.261183673	-0.270939116	
TBI	**-0.1499291**	**-0.150570267**	**-0.150678307**	**-0.255351702**	**-0.365429975**	**-0.266951423**	**-0.321917229**	**-0.330644157**	**0.208549496**
For Megaspreadsheet undistorted VoP of residual	**50025262939**	**50025262939**	**50025262939**	**50025262939**	**50025262939**	**48670164821**	**53550531609**	**54405855073**	**55580476139**

Table ?: Nominal rates of assistance to agricultural relative to non-agricultural industries, country, time coverage

	66-69	70-74	75-79	80-84	85-89	90-94	95-99	00-03
NRA of Covered Products	-24	-20	-38	-51	-26	-7	-4	-0.5
NRA of Non-Covered Products	-1	0	-1	-1	-2	-1	-1	-0.3
NRA 100%	-12	-13	-27	-39	-18	-5	-3	-0.5
Non-product specific input assistance	0	0	0	0	0	0	0	0
DRA 100%	-12	-13	-27	-39	-18	-5	-3	0
DRA tr								
All Agriculture	-26	-21	-42	-57	-38	-17	-8	-1
All Non-Agriculture	12	9	13	20	13	12	10	14
RRA	-34	-28	-48	-64	-45	-25	-17	-13
TBI	-0.40	0.14	-0.47	-0.53	-0.62	-0.34	-0.21	-0.31

1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
-0.021781363	-0.01387807	-0.011827126	-0.009278473	-0.000825467	0.001041309	0.004354803	-0.007214993	-0.013495995	-0.009729776	-0.01573
-0.121559463	-0.083859584	-0.16810258	-0.104241895	-0.008831359	-0.008217525	-0.010616158	-0.240684758	-0.40479221	-0.190778175	-0.325518
0	0	0	0	0	0	0	0	0	0	0
-0.121559463	-0.083859584	-0.16810258	-0.104241895	-0.008831359	-0.008217525	-0.010616158	-0.240684758	-0.40479221	-0.190778175	-0.325518
-0.256212362	-0.180211963	-0.345903255	-0.241040344	-0.022224921	-0.020123451	-0.02510238	-0.417406901	-0.578832884	-0.312258407	-0.517219
0.11920196	0.111981643	0.107293175	0.156534165	0.095301872	0.090649631	0.082660973	0.075217221	0.093565551	0.105219987	0.1719828
-0.335430365	-0.262768372	-0.409283142	-0.343763739	-0.107300824	-0.101566148	-0.099535641	-0.458162418	-0.614867974	-0.377733302	-0.588065
-0.396304043	**-0.323212674**	**-0.461183568**	**-0.402419486**	**-0.175621556**	**-0.127101598**	**-0.06309751**	**0.583588902**	**0.486886309**	**0.018477327**	**-0.596**
58595847971	**59966539999**	**59321593934**	**73629623463**	**69687005797**	**67315272594**	**61503030477**	**56547191162**	**79425411245**	**66956234511**	**9.23E+10**

1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
-0.008994	-0.00693	-0.008916	-0.010392	-0.012373	-0.017635	-0.009424	-0.006307	-0.001198	-0.018024	-0.023016	-0.020592	-0.015758	-0.008021
-0.257705	-0.384873	-0.194096	-0.266929	-0.399755	-0.474565	-0.430054	-0.366466	-0.150951	-0.145228	-0.270157	-0.204057	-0.138764	-0.071326
0	0	0	0	0	0	0	0	0	0	0	0	0	0
-0.257705	-0.384873	-0.194096	-0.266929	-0.399755	-0.474565	-0.430054	-0.366466	-0.150951	-0.145228	-0.270157	-0.204057	-0.138764	-0.071326
-0.383494	-0.561918	-0.306062	-0.387592	-0.559398	-0.677728	-0.656224	-0.592413	-0.304032	-0.273717	-0.464557	-0.628418	-0.234604	-0.156768
0.0705275	0.1805382	0.1361272	0.1412974	0.189132	0.2636073	0.2477447	0.1564814	0.1274961	0.1083576	0.1708059	0.1471051	0.0831445	0.1013779
-0.42411	-0.628913	-0.389208	-0.463411	-0.629476	-0.744959	-0.724482	-0.647563	-0.382731	-0.344721	-0.542672	-0.67607	-0.293358	-0.234384
-0.713667	**-0.499704**	**-0.562561**	**-0.506137**	**-0.291417**	**-0.590189**	**-0.576063**	**-0.697561**	**-0.708395**	**-0.614293**	**-0.575771**	**-0.714019**	**-0.504003**	**-0.346438**
6.271E+10	**8.883E+10**	**6.732E+10**	**7.192E+10**	**1.062E+11**	**1.948E+11**	**2.35E+11**	**2.48E+11**	**2.36E+11**	**2.422E+11**	**4.599E+11**	**5.581E+11**	**5.824E+11**	**5.68E+11**

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
-0.0092	-0.006064	-0.007455	0.0015364	-0.009385	-0.012073	-0.015131	-0.003209	-0.002873	0.0008015	-0.000869	-0.003174	-0.009481	0.0022325
-0.089484	-0.06072	-0.062193	0.0139269	-0.073847	-0.030902	-0.047291	0.0053151	0.0018679	0.0208813	-0.011859	-0.026542	-0.000795	0.0685431
0	0	0	0	0	0	0	0	0	0	0	0	0	0
-0.089484	-0.06072	-0.062193	0.0139269	-0.073847	-0.030902	-0.047291	0.0053151	0.0018679	0.0208813	-0.011859	-0.026542	-0.000795	0.0685431
-0.202334	-0.125855	-0.384495	0.028089	-0.151791	-0.178775	-0.099432	0.0127274	0.003747	0.0432252	-0.024501	-0.053194	-0.001621	0.1105279
0.0842092	0.1213066	0.1393547	0.1311051	0.0892134	0.1432223	0.0979273	0.0918713	0.0902029	0.1399702	0.1422576	0.123883	0.1425098	0.1725374
-0.264288	-0.220423	-0.459777	-0.091076	-0.221265	-0.281658	-0.179756	-0.072485	-0.079303	-0.084866	-0.145991	-0.157559	-0.126153	-0.052885
-0.344533	**-0.532763**	**-0.512525**	**0.0299773**	**-0.338882**	**-0.346799**	**-0.298784**	**0.0004189**	**-0.071918**	**-0.175267**	**-0.32661**	**-0.299265**	**-0.446957**	**-0.102815**
7.582E+11	**7.67E+11**	**8.202E+11**	**1.294E+12**	**1.836E+12**	**1.747E+12**	**2.169E+12**	**2.133E+12**	**2.503E+12**	**3.069E+12**	**3.022E+12**	**3.053E+12**	**2.812E+12**	**3.951E+12**

2005
0
0.112604
0.0021733
4.238E+12

	1955	1956	1957	1958
ONLY for MEGASPREADSHEET				
RRA	#VALUE!	#VALUE!	#VALUE!	#VALUE!
NRA Ag tradables	0.015664053	0.015538099	0.014328202	0.013203543
NRA Non-Ag tradables	#VALUE!	#VALUE!	#VALUE!	#VALUE!
NRA non-covered	0.00177	0.00177	0.00177	0.00177
value of production non-	50,025,262,939	50,025,262,939	50,025,262,939	50,025,262,939
NPS	0	0	0	0
Exchange rate	246.85	246.85	246.85	246.85
VoP Non-Cov M	500252629.4	500252629.4	500252629.4	500252629.4
VoP Non-Cov X	4502273664	4502273664	4502273664	4502273664
VoP Non-Cov H	45022736645	45022736645	45022736645	45022736645
NRA Non-Cov M	0.177	0.177	0.177	0.177
NRA Non-Cov X				
NRA Non-Cov H	0	0	0	0

1959	1960	1961	1962	1963
#VALUE!	#VALUE!	-0.304136229	-0.205301656	-0.261183673
0.013249194	-0.082678168	-0.223445233	-0.126602772	-0.16935266
#VALUE!	#VALUE!	0.115958036	0.099029884	0.124294781
0.00177	0.002062207	0.002121212	0.001843131	0.00216286
50,025,262,939	50,025,262,939	50,025,262,939	48,670,164,821	53,550,531,609
0	0	0	0	0
246.85	267.46	271.86	251.83	275.01
500252629.4	500252629.4	500252629.4	486701648.2	535505316.1
4502273664	4502273664	4502273664	4395553038	7506650517
45022736645	45022736645	45022736645	43787910135	45508375776
0.177	0.206220696	0.212121212	0.184313134	0.216286039
0	0	0	0	0

1964	1965	1966	1967	1968
-0.270939116	-0.286469363	-0.335430365	-0.262768372	-0.409283142
-0.190011036	-0.198256383	-0.256212362	-0.180211963	-0.345903255
0.111003185	0.12362886	0.11920196	0.111981643	0.107293175
0.002015415	0.001645376	-0.021781363	-0.01387807	-0.011827126
54,405,855,073	55,580,476,139	58,595,847,971	59,966,539,999	59,321,593,934
0	0	0	0	0
264.03	280.67	284.06	267.81	264.88
544058550.7	414959686.3	487929983.7	594209314.4	633164348.2
7493851154	6129332682	5952288054	4835932333	3847854048
46367945368	49036183771	52155629933	54536398352	54840575537
0.201541485	0.220384675	0.224383647	0.204646641	0.202707881
		-0.232814829	-0.197236585	-0.215692001
0	0	0	0	0

1969	1970	1971	1972	1973
-0.343763739	-0.107300824	-0.101566148	-0.099535641	-0.458162418
-0.241040344	-0.022224921	-0.020123451	-0.02510238	-0.417406901
0.156534165	0.095301872	0.090649631	0.082660973	0.075217221
-0.009278473	-0.000825467	0.001041309	0.004354803	-0.007214993
73,629,623,463	69,687,005,797	67,315,272,594	61,503,030,477	56,547,191,162
0	0	0	0	0
333.95	281.08	271.99	243.59	225.59
597257534	824689480	805509438.4	1165114003	774648351.5
4900973918	3459624328	3323449562	3247148398	3728236089
68131392011	65402691989	63186313594	57090768076	52044306721
0.260981358	0.181726908	0.169980119	0.163618389	0.181726908
-0.171199349	-0.059946559	-0.020107007	0.023774553	-0.147190789
0	0	0	0	0

1974	1975	1976	1977	1978
-0.614867974	-0.377733302	-0.588064982	-0.424109874	-0.628913032
-0.578832884	-0.312258407	-0.517219261	-0.383493799	-0.561917658
0.093565551	0.105219987	0.171982761	0.070527472	0.180538203
-0.013495995	-0.009729776	-0.015730196	-0.008993618	-0.006930061
79,425,411,245	66,956,234,511	92,302,840,662	62,712,337,196	88,830,009,707
0	0	0	0	0
289.17	257.47	389.41	226.81	372.67
1050677952	1071171004	1051753640	784706395.9	988060428.8
5381857931	3731233699	4146046958	2137534735	2055357322
72992875362	62153829808	87105040065	59790096066	85786591957
0.227167231	0.227167231	0.312570273	0.145519072	0.316031152
-0.243522696	-0.239814542	-0.429490723	-0.317281651	-0.451432572
0	0	0	0	0

1979	1980	1981	1982	1983
-0.389207759	-0.463410527	-0.629475922	-0.744958645	-0.724482143
-0.306062322	-0.387591827	-0.559397965	-0.677727892	-0.656224048
0.136127199	0.141297405	0.18913199	0.263607262	0.247744722
-0.00891591	-0.010391684	-0.012373185	-0.017635459	-0.009424088
67,319,624,600	71,919,106,992	106,155,762,723	194,840,665,680	235,014,728,765
0	0	0	0	0
260.73	273.78	436.27	1026.80	1142.53
1034252367	959536472.2	1886425988	2618105382	3701393074
2439271137	3064761329	4928276142	8717797533	7282615551
63846101096	67894809191	99341060594	1.83505E+11	2.24031E+11
0.235513428	0.251020867	0.308681075	0.452876308	0.430668462
-0.345921378	-0.322447394	-0.38467586	-0.530154825	-0.5230089
0	0	0	0	0

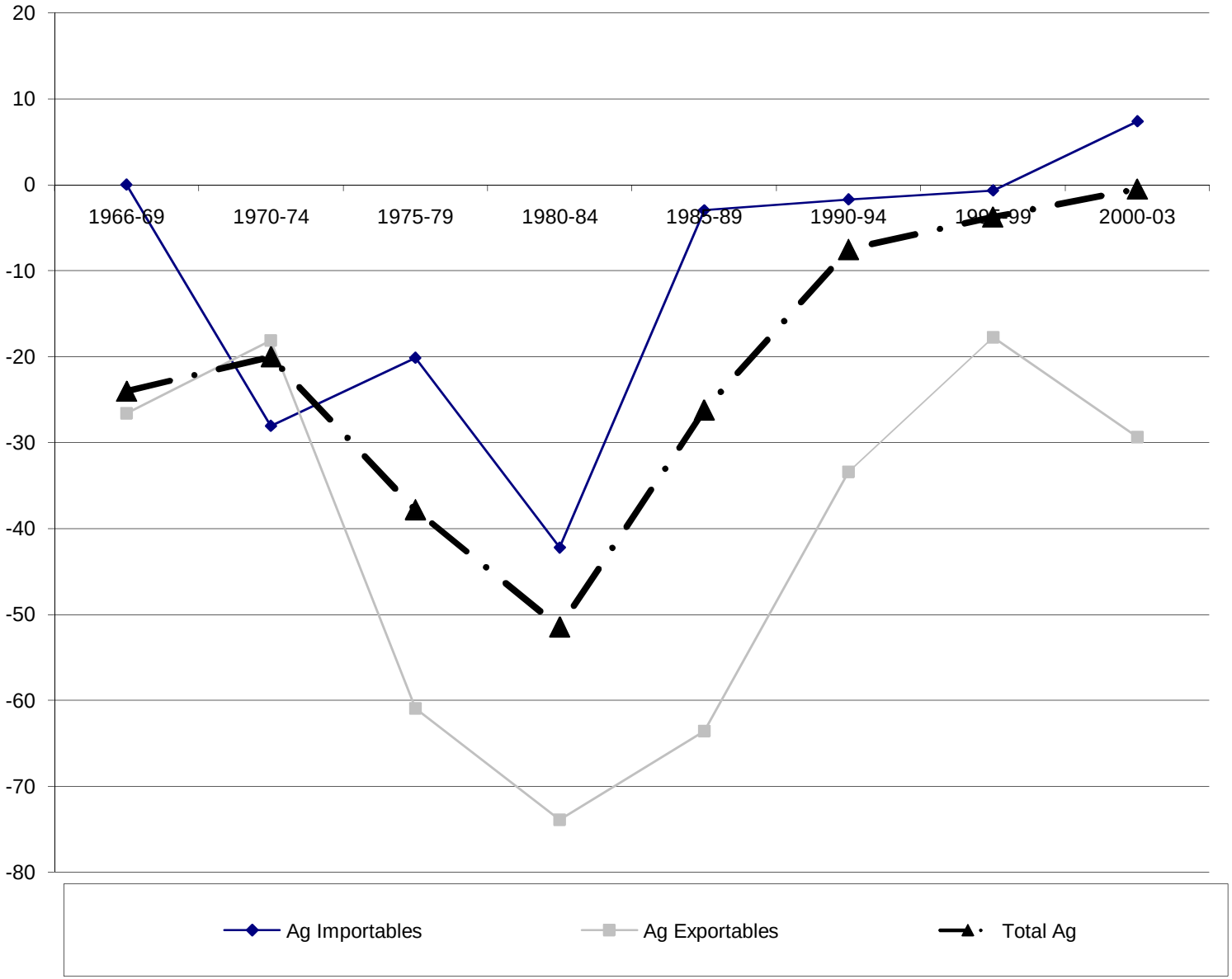
1984	1985	1986	1987	1988
-0.647562556	-0.382731375	-0.34472117	-0.542671785	-0.676070089
-0.592412666	-0.304032027	-0.273716703	-0.464557406	-0.628418355
0.156481359	0.127496109	0.10835764	0.170805948	0.147105076
-0.006306577	-0.001198066	-0.018023977	-0.02301597	-0.020591566
248,025,632,611	235,967,778,937	242,216,878,916	459,904,868,906	558,093,685,778
0	0	0	0	0
927.21	755.55	738.11	1611.89	1782.93
4907215583	3464996508	3055025936	5800674623	7039107648
6716921912	2775009489	13922182938	26434490229	32078203735
2.36401E+11	2.29728E+11	2.2524E+11	4.2767E+11	5.18976E+11
0.30907209	0.221409269	0.208836579	0.311944126	0.256185372
-0.4586738	-0.378336501	-0.359405744	-0.468881479	-0.414466458
0	0	0	0	0

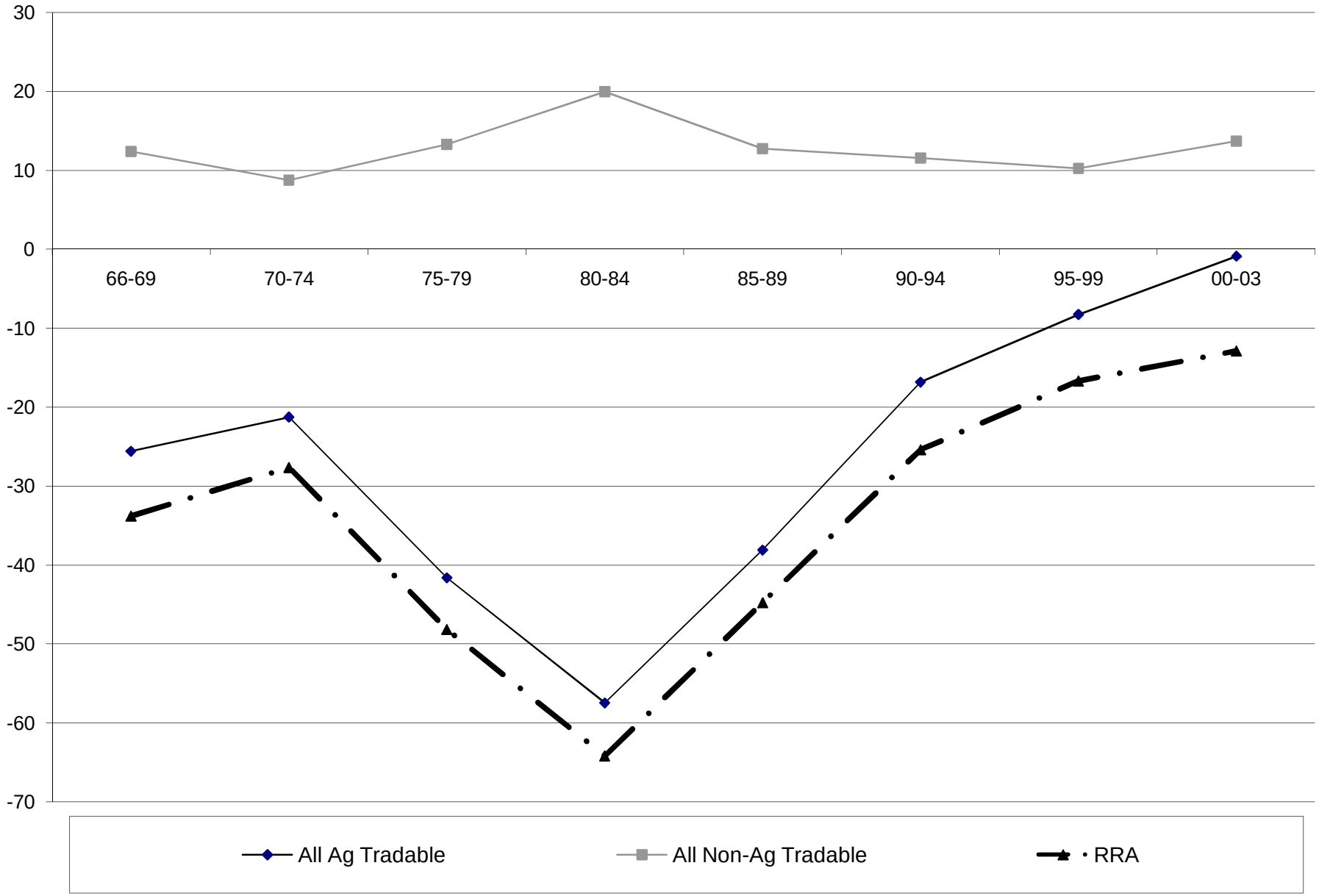
1989	1990	1991	1992	1993
-0.293357768	-0.234384319	-0.264287964	-0.220423223	-0.459777344
-0.234604357	-0.15676784	-0.202334249	-0.125855378	-0.384494777
0.083144494	0.10137786	0.08420919	0.121306648	0.139354703
-0.015757701	-0.008021091	-0.009200079	-0.006064199	-0.007455102
582,408,949,456	568,009,479,536	758,231,909,174	767,045,397,821	820,244,196,496
0	0	0	0	0
1678.77	1657.27	2216.55	2251.10	2311.26
7345790492	7164173281	9563405154	9674567665	10345551910
33475800593	20861756377	41483595948	24604186154	31336775507
5.41587E+11	5.39984E+11	7.07185E+11	7.32767E+11	7.78562E+11
0.194965042	0.21740592	0.233064362	0.233064362	0.233064362
-0.316933368	-0.293052487	-0.221887291	-0.280696658	-0.27208234
0	0	0	0	0

1994	1995	1996	1997	1998
-0.091075597	-0.221264733	-0.281657595	-0.17975582	-0.072484632
0.02808901	-0.151791142	-0.178774926	-0.099431545	0.012727396
0.131105081	0.089213362	0.143222324	0.097927272	0.091871284
0.001536385	-0.00938488	-0.012072535	-0.015131275	-0.003208962
1,294,304,246,451	1,835,916,823,588	1,746,630,207,127	2,169,031,347,410	2,133,041,172,503
0	0	0	0	0
3704.39	5151.57	4910.21	5878.30	5441.40
16324762585	23155997790	22029846177	27357494873	26903559052
47771874639	1.07251E+11	1.15677E+11	1.35032E+11	1.39529E+11
1.23021E+12	1.70551E+12	1.60892E+12	2.00664E+12	1.96661E+12
0.233064362	0.233064362	0.240781147	0.225527948	0.177
-0.038017585	-0.210969206	-0.228141054	-0.288747165	-0.08318532
0	0	0	0	0

1999	2000	2001	2002	2003
-0.079302542	-0.084866308	-0.145990744	-0.157558509	-0.12615285
0.003746996	0.04322515	-0.024501456	-0.053194337	-0.001621103
0.090202853	0.139970214	0.142257577	0.123882991	0.142509759
-0.002873462	0.000801534	-0.000869287	-0.003174236	-0.009481389
2,503,442,597,830	3,069,274,274,070	3,022,276,556,136	3,053,255,718,511	2,812,253,165,340
0	0	0	0	0
6283.78	6535.97	6531.70	6578.97	6021.32
31575347270	38712052417	38119280981	38510014050	35470304126
1.5302E+11	1.05309E+11	1.12004E+11	1.07235E+11	1.50417E+11
2.31885E+12	2.92525E+12	2.87215E+12	2.90751E+12	2.62637E+12
0.177	0.177	0.177	0.177	0.177
-0.083534221	-0.041705002	-0.083696754	-0.153942405	-0.219005991
0	0	0	0	0

2004	2005
-0.052884885	-0.103068319
0.110527873	-0.002070191
0.172537378	0.112604037
0.00223246	0.00223246
3,951,385,704,998	4,238,034,826,073
0	0
9358.95	10015.13
49837921565	53453361180
2.43805E+11	2.43594E+11
3.65774E+12	3.94099E+12
0.177	0.177
0	0
0	0


20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1966-69
1970-74
1975-79
1980-84
1985-89
1990-94
1995-99
2000-03
Ag Importables
Ag Exportables
Total Ag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20
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-40
-50
-60
-70
66-69
70-74
75-79
80-84
85-89
90-94
95-99
00-03
All Ag Tradable
All Non-Ag Tradable
RRA

		2001		2004	
		NRA_f	CTE_c	NRA_f	CTE_c
	Primary products				
1	PADDY RICE (husked but not polished) *				
2	WHEAT (incl. meslin)				
3	COARSE GRAINS (maize/corn, barley, rye, oats, millet, other)*				
4	VEGETABLES, FRUITS, NUTS (fresh only) *				
5	OIL SEEDS (incl. oleaginous fruit) *				
6	SUGAR CANE, SUGAR BEET *				
7	COTTON[a] AND OTHER PLANT-BASED FIBRES (seed cotton and other raw plant materials for textiles)				
8	OTHER CROPS (incl. flowers, beverage and spice crops, herbs, fodder crops, tobacco leaf)				
9	BEEF CATTLE, SPHEEP, GOATS, HORSES (live animals including asses and mules) *				
10	OTHER ANIMAL PRODUCTS (swine,/pigs, poultry and other live animals, eggs, honey, hides and skins) *				
11	RAW MILK (from dairy farms) *				
12	WOOL, SILK WORM COCOONS (raw animal materials used in textiles)				
	Lightly processed food products				
13	BEEF AND SHEEP/GOAT MEAT PRODUCTS (fresh, chilled or frozen plus offal and fats)				
14	OTHER MEAT PRODUCTS (fresh chilled or frozen pork and poultry plus associated offal and fats)				
15	VEGETABLE OILS AND FATS (including cotton linters and oilcakes)				
16	PROCESSED DAIRY PRODUCTS (pasteurized milk, cheese, butter, milk powder, etc.)				
17	PROCESSED RICE (semi- and wholly milled/polished)*				
18	SUGAR (raw and refined) *				

See Sheet "GTAP information, 2001+ 2004"

G1	GTAP SECTORS, REQUIRED INFORMATION FOR 2001 and 2004			
G2		Unit	Source	
G3				2001
G4	**PADDY RICE (husked but not polished) (PDR)**			
G5	**Importable**			
G6	Import tariff	proportion	all tariffs are taken from UNCTAD-TRAINS	0
G7	NTB	proportion		
G8	Consumption Tax	proportion		0
G9	Production Subsidy			0
G10				
G11	**Exportable**			
G12	Export Subsidy			0
G13	NTB	proportion		
G14	Consumption Tax	proportion		0
G15	Production Subsidy	proportion		0
G16				
G17	**Nontradable**			
G18	Consumption Tax	proportion		0
G19	Production Subsidy	proportion		0
G20				
G21	**Overall DRA guesstimate**	proportion	guess	-0.05
G22				
G23	**Overall CTE guesstimate**	proportion	Domestic tax	0.2
G24				
G25	**WHEAT (incl. meslin) (WHT)**			
G26	**Importable**			
G27	Import tariff	proportion		0
G28	NTB	proportion		
G29	Consumption Tax	proportion		0.2
G30	Production Subsidy			0
G31				
G32	**Exportable**			
G33	Export Subsidy			0
G34	NTB	proportion		
G35	Consumption Tax	proportion		0.2
G36	Production Subsidy	proportion		0
G37				
G38	**Nontradable**			
G39	Consumption Tax	proportion		0.2
G40	Production Subsidy	proportion		0
G41				
G42	**Overall DRA guesstimate**	proportion	guess(average tariff)	0
G43				
G44	**Overall CTE guesstimate**	proportion	Domestic tax	0.2
G45				
G46	**COARSE GRAINS (maize,/corn, barley, ryee, oats, millet, other) (GRO)**			
G47	**Importable**			
G48	Import tariff	proportion		0.0
G49	NTB	proportion		
G50	Consumption Tax	proportion		0
G51	Production Subsidy			0
G52				
G53	**Exportable**			

G54	Export Subsidy			0
G55	NTB	proportion		
G56	Consumption Tax	proportion		0
G57	Production Subsidy	proportion		0
G58				
G59	**Nontradable**			
G60	Consumption Tax	proportion		0
G61	Production Subsidy	proportion		0
G62				
G63	**Overall DRA guesstimate**	proportion		0
G64				
G65	**Overall CTE guesstimate**	proportion		0
G66				
G67	**VEGETABLES, FRUITS, NUTS (fresh only) (V_F)**			
G68	**Importable**			
G69	Import tariff	proportion		0.1
G70	NTB	proportion		
G71	Consumption Tax	proportion		0
G72	Production Subsidy			0
G73				
G74	**Exportable**			
G75	Export Subsidy			0
G76	NTB	proportion		
G77	Consumption Tax	proportion		0
G78	Production Subsidy	proportion		0
G79				
G80	**Nontradable**			
G81	Consumption Tax	proportion		0
G82	Production Subsidy	proportion		0
G83				
G84	**Overall DRA guesstimate**	proportion		0.1
G85				
G86	**Overall CTE guesstimate**	proportion		0
G87				
G88	**OIL SEEDS (incl. oleaginous fruit) (OSD)**			
G89	**Importable**			
G90	Import tariff	proportion		0.0
G91	NTB	proportion		
G92	Consumption Tax	proportion		0.2
G93	Production Subsidy			0
G94				
G95	**Exportable**			
G96	Export Subsidy			0
G97	NTB	proportion		
G98	Consumption Tax	proportion		0.2
G99	Production Subsidy	proportion		0
G100				
G101	**Nontradable**			
G102	Consumption Tax	proportion		
G103	Production Subsidy	proportion		
G104				
G105	**Overall DRA guesstimate**	proportion	averagetariff as no export subsidy	0.0
G106				
G107	**Overall CTE guesstimate**	proportion	domestic tax	0.2
G108				
G109	**SUGAR CANE, SUGAR BEET (used for sugar manufacturing) (C_B)**			
G110	**Importable**			
G111	Import tariff	proportion	n.a.	0
G112	NTB	proportion		
G113	Consumption Tax	proportion		0
G114	Production Subsidy			0
G115				
G116	**Exportable**			
G117	Export Subsidy			0
G118	NTB	proportion		0
G119	Consumption Tax	proportion		0
G120	Production Subsidy	proportion		0
G121				
G122	**Nontradable**			
G123	Consumption Tax	proportion		0
G124	Production Subsidy	proportion		0
G125				
G126	**Overall DRA guesstimate**	proportion		0

G127			
G128	**Overall CTE guesstimate**	proportion	0
G129			
G130	**COTTON AND OTHER PLANT BASED FIBRES (raw vegetable materials used in textiles) (PFB)**		
G131	**Importable**		
G132	Import tariff	proportion	0.0
G133	NTB	proportion	
G134	Consumption Tax	proportion	0
G135	Production Subsidy		0
G136			
G137	**Exportable**		
G138	Export Subsidy		0
G139	NTB	proportion	
G140	Consumption Tax	proportion	0
G141	Production Subsidy	proportion	0
G142			
G143	**Nontradable**		
G144	Consumption Tax	proportion	0
G145	Production Subsidy	proportion	0
G146			
G147	**Overall DRA guesstimate**	proportion	0
G148			
G149	**Overall CTE guesstimate**	proportion	0
G150			
G151	**OTHER CROPS (incl. flowers, berverage and spice crops, herbs, fodder crops, tobacco leaf) (OCR)**		
G152	**Importable**		
G153	Import tariff	proportion	0.0
G154	NTB	proportion	
G155	Consumption Tax	proportion	0
G156	Production Subsidy		0
G157			
G158	**Exportable**		
G159	Export Subsidy		0
G160	NTB	proportion	
G161	Consumption Tax	proportion	0
G162	Production Subsidy	proportion	0
G163			
G164	**Nontradable**		
G165	Consumption Tax	proportion	0
G166	Production Subsidy	proportion	0
G167			
G168	**Overall DRA guesstimate**	proportion	0
G169			
G170	**Overall CTE guesstimate**	proportion	0
G171			
G172	**BEEF CATTLE, SPHEEP, GOATS, HORSES (live animals incl. asses and mules) (CTL)**		
G173	**Importable**		
G174	Import tariff	proportion	0.0
G175	NTB	proportion	
G176	Consumption Tax	proportion	0
G177	Production Subsidy		0
G178			
G179	**Exportable**		
G180	Export Subsidy		
G181	NTB	proportion	
G182	Consumption Tax	proportion	0
G183	Production Subsidy	proportion	0
G184			
G185	**Nontradable**		
G186	Consumption Tax	proportion	
G187	Production Subsidy	proportion	
G188			
G189	**Overall DRA guesstimate**	proportion	0
G190			
G191	**Overall CTE guesstimate**	proportion	0
G192			
G193	**OTHER ANIMAL PRODUCTS (swine,/pigs, poultry and other live animals, eggs, honey, hides and skins) (OAP)**		
G194	**Importable**		
G195	Import tariff	proportion	0.0
G196	NTB	proportion	0

G197	Consumption Tax	proportion		0
G198	Production Subsidy			0
G199				
G200	**Exportable**			
G201	Export Subsidy			0
G202	NTB	proportion		0
G203	Consumption Tax	proportion		0
G204	Production Subsidy	proportion		0
G205				
G206	**Nontradable**			
G207	Consumption Tax	proportion		0
G208	Production Subsidy	proportion		0
G209				
G210	**Overall DRA guesstimate**	proportion		0
G211				
G212	**Overall CTE guesstimate**	proportion		0
G213				
G214	**RAW MILK (from dairy farms) (RMK)**			
G215	**Importable**			
G216	Import tariff	proportion		0
G217	NTB	proportion		
G218	Consumption Tax	proportion		0
G219	Production Subsidy			0
G220				
G221	**Exportable**			
G222	Export Subsidy			0
G223	NTB	proportion		
G224	Consumption Tax	proportion		0
G225	Production Subsidy	proportion		0
G226				
G227	**Nontradable**			
G228	Consumption Tax	proportion		0
G229	Production Subsidy	proportion		0
G230				
G231	**Overall DRA guesstimate**	proportion		0
G232				
G233	**Overall CTE guesstimate**	proportion	guess	0.1
G234				
G235	**WOOL, SILK WORM COCOONS (raw animal materials used in textiles) (WOL)**			
G236	**Importable**			
G237	Import tariff	proportion		0.0
G238	NTB	proportion		0
G239	Consumption Tax	proportion		0
G240	Production Subsidy			0
G241				
G242	**Exportable**			
G243	Export Subsidy			0
G244	NTB	proportion		0
G245	Consumption Tax	proportion		0
G246	Production Subsidy	proportion		0
G247				
G248	**Nontradable**			
G249	Consumption Tax	proportion		0
G250	Production Subsidy	proportion		0
G251				
G252	**Overall DRA guesstimate**	proportion		0
G253				
G254	**Overall CTE guesstimate**	proportion		0
G255	**Value of Production and Distortion of REMAINING Lightly Processed Agricultural Production**			
G256	**BEEF AND SHEEP/GOAT MEAT PRODUCTS (fresh, chilled or frozen plus offal, iols & fats) (CMT)**			
G257	**Importable**			
G258	Import tariff	proportion		0.0
G259	NTB	proportion		0
G260	Consumption Tax	proportion		0
G261	Production Subsidy			0
G262				
G263	**Exportable**			
G264	Export Subsidy			0
G265	NTB	proportion		0
G266	Consumption Tax	proportion		0
G267	Production Subsidy	proportion		0

G268			
G269	**Nontradable**		
G270	Consumption Tax	proportion	0
G271	Production Subsidy	proportion	0
G272			
G273	**Overall DRA guesstimate**	proportion	0
G274			
G275	**Overall CTE guesstimate**	proportion	0
G276			
G277	**OTHER MEAT PRODUCTS (fresh chilled or frozen pork and poultry plus associated offals, oils and fats) (OMT)**		
G278	**Importable**		
G279	Import tariff	proportion	0.1
G280	NTB	proportion	0
G281	Consumption Tax	proportion	0
G282	Production Subsidy		0
G283			
G284	**Exportable**		
G285	Export Subsidy		0
G286	NTB	proportion	0
G287	Consumption Tax	proportion	0
G288	Production Subsidy	proportion	0
G289			
G290	**Nontradable**		
G291	Consumption Tax	proportion	0
G292	Production Subsidy	proportion	0
G293			
G294	**Overall DRA guesstimate**	proportion	0.1
G295			
G296	**Overall CTE guesstimate**	proportion	0.2
G297			
G298	**VEGETABLE OILS AND FATS (incl. cotton linters and oilcakes) (VOL)**		
G299	**Importable**		
G300	Import tariff	proportion	0.1
G301	NTB	proportion	
G302	Consumption Tax	proportion	0.2
G303	Production Subsidy		0
G304			
G305	**Exportable**		
G306	Export Subsidy		0
G307	NTB	proportion	
G308	Consumption Tax	proportion	0.2
G309	Production Subsidy	proportion	0
G310			
G311	**Nontradable**		
G312	Consumption Tax	proportion	0.2
G313	Production Subsidy	proportion	0
G314			
G315	**Overall DRA guesstimate**	proportion	
G316			
G317	**Overall CTE guesstimate**	proportion	
G318			
G319	**PROCESSED DAIRY PRODUCTS (pasteurized milk, cheese, butter, powder, etc.) (MIL)**		
G320	**Importable**		
G321	Import tariff	proportion	0.5
G322	NTB	proportion	
G323	Consumption Tax	proportion	0.2
G324	Production Subsidy		0
G325			
G326	**Exportable**		
G327	Export Subsidy		0
G328	NTB	proportion	
G329	Consumption Tax	proportion	0.2
G330	Production Subsidy	proportion	0
G331			
G332	**Nontradable**		
G333	Consumption Tax	proportion	
G334	Production Subsidy	proportion	
G335			
G336	**Overall DRA guesstimate**	proportion	
G337			
G338	**Overall CTE guesstimate**	proportion	

G339				
G340	**PROCESSED RICE (semi- and wholly milled; i.e. polished) (PCR)**			
G341	**Importable**			
G342	Import tariff	proportion		0.0
G343	NTB	proportion		
G344	Consumption Tax	proportion		0.2
G345	Production Subsidy			0
G346				
G347	**Exportable**			
G348	Export Subsidy			0
G349	NTB	proportion		
G350	Consumption Tax	proportion		0.2
G351	Production Subsidy	proportion		0
G352				
G353	**Nontradable**			
G354	Consumption Tax	proportion		0.2
G355	Production Subsidy	proportion		0
G356				
G357	**Overall DRA guesstimate**	proportion		0.50011
G358				
G359	**Overall CTE guesstimate**	proportion	import tariff +tax	0.4
G360				
G361	**SUGAR (raw and refined) (SGR)**			
G362	**Importable**			
G363	Import tariff	proportion		0.1
G364	NTB	proportion		
G365	Consumption Tax	proportion		0.2
G366	Production Subsidy			0
G367				
G368	**Exportable**			
G369	Export Subsidy			
G370	NTB	proportion		
G371	Consumption Tax	proportion		0.2
G372	Production Subsidy	proportion		0
G373				
G374	**Nontradable**			
G375	Consumption Tax	proportion		0.2
G376	Production Subsidy	proportion		0
G377				
G378	**Overall DRA guesstimate**	proportion	taken from calculation	-0.18

Period averages of GDP per capita, Agricultural Value Added and Rural population (in percent)

Year	GDP per capita (in constant US$, 2000=100)	GDP per capita (in current US$)	Rural Population (percent of total population)	Agricultural VA (percent of total GDP)
1960-1970	379	149	88	25
1971-1980	362	281	83	30
1981-1990	276	289	79	34
1991-2000	236	239	75	29
2001-2005	233	270	73	30

Share of individual

in percent

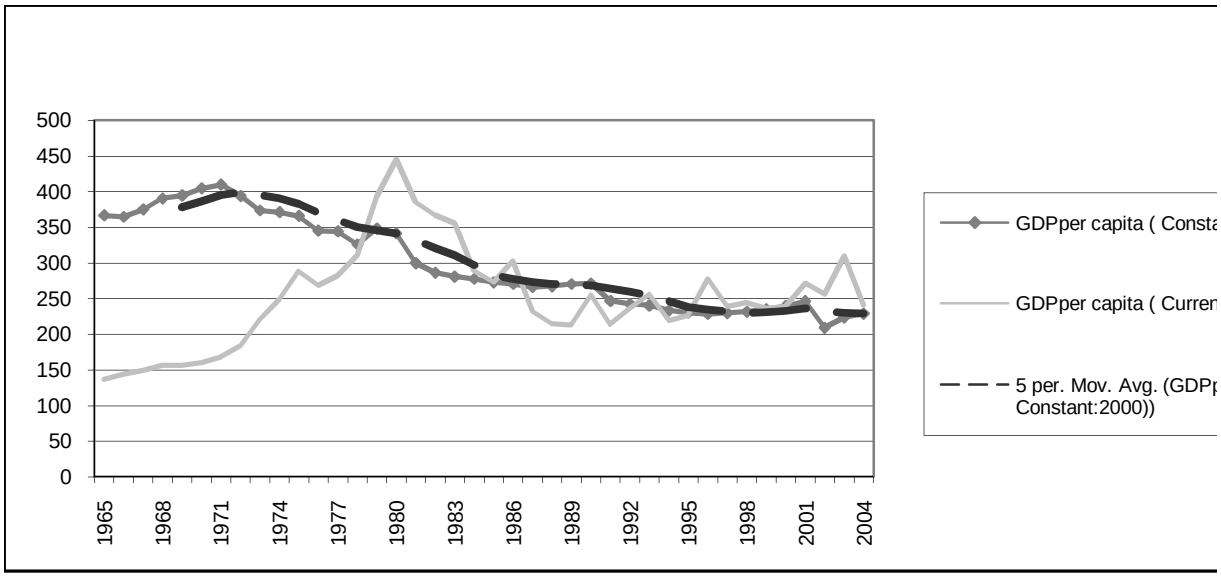
	1995-97	1998-2000	2001-04	2005
Shrimps	0.26	0.36	0.18	0.26
Green Cofl	0.31	0.16	0.01	0.02
Vanilla	0.12	0.16	0.51	0.25
Cloves	0.05	0.11	0.13	0.13
Cocoa bea	0.02	0.02	0.02	0.04
Litchis	0.07	0.07	0.05	0
Other prim	0.11	0.08	0.05	0.19
Animal pro	0.07	0.04	0.05	0.1

	1995-97
Shrimps	26
Green Cofl	31
Vanilla	12
Cloves	5
Cocoa bea	2
Litchis	7
Other prim	11
Animal pro	7

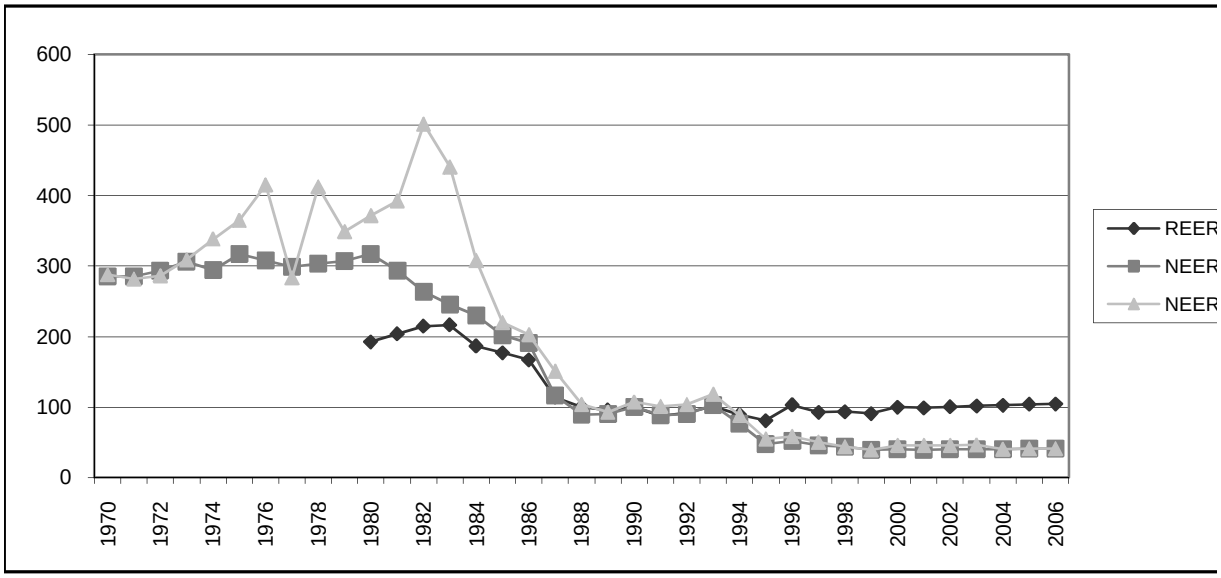
Table : Evolution of Custom Revenue Share by type of instruments (in percentage): 2002-2005

	2002	2003	2004	2005
Custom duti	8	7.7	6.6	22.8
Import tax	15.3	15.7	17.4	0
VAT	43.8	45.6	41.8	43.5
PPT+VATP	24.4	21.4	30.7	31.4
Excise duty	3.8	4.2	2.4	2.1
TSI(2)	4.4	5.1	0.8	0
Other(3)	0.3	0.3	0.3	0.2

	1965	1966	1967	1968	1969	1970	1971	1972
apita (Cons	366.91535	365.00468	375.37429	390.74911	394.88606	405.02026	410.06765	394.35943
er capita (C	136.88541	144.09412	149.1862	156.80427	156.44018	160.41548	168.59328	183.34514



	1970	1971	1972	1973	1974	1975	1976	1977
REER_MDG								
NEER_MD	285.83	285.04	293.27	306.17	294.26	317.25	307.84	298.99
NEERpara	288.1324	281.6559	286.6802	308.6407	338.4489	364.8866	414.9968	283.4107



1998-2000	2001-04	2005
36	18	26
16	1	2
16	51	25
11	13	13
2	2	4
7	5	0
8	5	19
4	5	10

1973	1974	1975	1976	1977	1978	1979	1980	1981
374.03748	371.55533	366.31691	345.65919	344.38948	326.2096	348.63221	341.81051	300.11222
220.43124	248.99976	288.65482	268.54313	282.59229	311.22947	392.81186	445.86648	385.55149

ant:2000)

nt)

per capita (

1978	1979	1980	1981	1982	1983	1984	1985	1986
		192.5364	203.993	214.8341	216.6302	186.6551	177.2756	167.0897
303.76	307.65	316.87	294.04	263.43	245.09	230.12	202.22	191.47
412.7786	348.9639	371.8799	392.8691	501.4977	440.2277	307.7431	219.9931	202.7058

R_MDG

R_MDG

Rparall

1982	1983	1984	1985	1986	1987	1988	1989	1990
286.44742	280.916	277.67813	273.01331	270.58069	266.12425	267.48514	270.568	271.13159
367.62085	355.81714	289.48155	273.55577	303.16329	232.05147	214.7354	213.44442	255.83482

1987	1988	1989	1990	1991	1992	1993	1994	1995
113.7851	100.5513	95.84118	100	87.04138	91.53483	101.2511	89.28441	80.97839
116.43	89.20	90.30	100.00	88.27	90.18	102.63	76.83	47.67
150.9271	103.7334	93.09491	107.11	101.5194	103.722	118.0432	88.37036	54.83246

1991	1992	1993	1994	1995	1996	1997	1998	1999
246.78434	242.56072	240.50655	233.34277	230.36921	228.34859	229.73357	231.67633	235.34881
213.99514	236.95843	256.48357	219.93219	226.58584	277.97829	239.37624	244.90545	236.36417

1996	1997	1998	1999	2000	2001	2002	2003	2004
103.033	92.5932	93.36976	90.8667	100.0152	99	100	102	103
51.92	45.61	43.94	39.38	39.90	40	40	40	41
58.61356	50.01312	43.94139	39.38397	45.89331	45.58517	45.90331	46.28173	40.59084

2000	2001	2002	2003	2004
239.43227	246.61013	209.2928	223.50467	228.90665
239.43227	271.76615	256.48967	310.57603	240.93505

2005	2006
104	104
41	41
40.92684	41.10063

Figure 1: Five year averages of Primary Agriculture production shares

in MT	1955	1956	1957	1958	1959
Rice	1050000	1065000	1180000	1170000	1050000
Maize	60000	60000	75000	73000	70000
Cassava	730000	740000	770000	750000	680000
Sweetpotatoes	250000	250000	240000	230000	240000
Sugar	450000	600000	700000	800000	760000
Vanilla	1400	1480	1600	1920	1760
Coffee	53000	54000	52000	51000	450000
Cloves	7300	3250	5900	4700	1620
Cocoa	600	600	600	600	600
Pepper	700	700	900	700	950
Total	2603000	2775030	3026000	3081920	3254930
the 100%	3718571.429	3964328.571	4322857.1	4402742.857	4649900

%	1955	1956	1957	1958	1959
Rice	0.403380715	0.383779635	0.3899537	0.379633475	0.322587583
Maize	0.023050327	0.021621388	0.0247852	0.023686533	0.021505839
Cassava	0.28044564	0.266663784	0.2544613	0.243354792	0.208913863
Sweetpotatoes	0.096043027	0.090089116	0.0793126	0.074628803	0.073734305
Sugar	0.172877449	0.216213879	0.2313285	0.259578445	0.233491964
Vanilla	0.000537841	0.000533328	0.0005288	0.000622988	0.000540718
Coffee	0.020361122	0.019459249	0.0171844	0.016548126	0.138251821
Cloves	0.002804456	0.001171159	0.0019498	0.001525023	0.000497707
Cocoa	0.000230503	0.000216214	0.0001983	0.000194684	0.000184336
Pepper	0.00026892	0.00025225	0.0002974	0.000227131	0.000291865
Total	1	1	1	1	1

from 100%

	1955	1956	1957	1958	1959
Rice	0.2823665	0.268645744	0.2729676	0.265743433	0.225811308
Maize	0.016135229	0.015134972	0.0173496	0.016580573	0.015054087
Cassava	0.196311948	0.186664649	0.1781229	0.170348354	0.146239704
Sweetpotatoes	0.067230119	0.063062381	0.0555188	0.052240162	0.051614013
Sugar	0.121014214	0.151349715	0.1619299	0.181704911	0.163444375
Vanilla	0.000376489	0.000373329	0.0003701	0.000436092	0.000378503
Coffee	0.014252785	0.013621474	0.0120291	0.011583688	0.096776275
Cloves	0.001963119	0.000819811	0.0013648	0.001067516	0.000348395
Cocoa	0.000161352	0.00015135	0.0001388	0.000136279	0.000129035
Pepper	0.000188244	0.000176575	0.0002082	0.000158992	0.000204305
Total	0.7	0.7	0.7	0.7	0.7
Other crops	0.369542835	0.364210117	0.3572307	0.353602949	0.352295748

	1955-59	1960-64	1965-69	1970-74	1975-79
Rice	26%	27%	27%	28%	26%
Maize	2%	2%	2%	2%	2%
Cassava	18%	17%	18%	17%	19%
Sugar	16%	17%	16%	18%	18%
Vanilla	0%	0%	0%	0%	0%
Coffee	3%	1%	1%	1%	1%

Other crops	36%	36%	36%	35%	35%
	1	1	1	1	1

Final household consumption shares

in MT	**1955**	**1956**	**1957**	**1958**	**1959**
Rice	656060.2045	674344.9642	773145.58	722422.7224	683104.5657
Maize	52287	57301	72947	66529	68690
Cassava	716118	730980	756840	735851	669123
Sweetpotatoes	250000	250000	240000	230000	240000
Sugar	0	0	0	0	0
Vanilla	-35	-37	-40	-48	-44
Coffee	5563	1534	3724	3172	412068
Cloves	4995	0	2651	0	0
Cocoa	600	600	600	600	600
Pepper	700	700	900	700	950
Total	1686288.204	1715422.964	1850767.6	1759226.722	2074491.566

in %	**1955**	**1956**	**1957**	**1958**	**1959**
Rice	0.389055799	0.39310711	0.4177432	0.410647879	0.329287705
Maize	0.031007155	0.033403424	0.0394145	0.037817184	0.033111728
Cassava	0.424671179	0.426122312	0.408933	0.418280936	0.322547949
Sweetpotatoes	0.14825461	0.145736652	0.1296759	0.13073926	0.115690998
Sugar	0	0	0	0	0
Vanilla	-2.07556E-05	-2.1569E-05	-2.16E-05	-2.72847E-05	-2.121E-05
Coffee	0.003298962	0.00089424	0.0020121	0.001803065	0.198635659
Cloves	0.002962127	0	0.0014324	0	0
Cocoa	0.000355811	0.000349768	0.0003242	0.000341059	0.000289227
Pepper	0.000415113	0.000408063	0.0004863	0.000397902	0.000457944
Total	1	1	1	1	1

	1955-59	**1960-64**	**1965-69**	**1970-74**	**1975-79**
Rice	39%	36%	35%	39%	39%
Maize	3%	5%	6%	4%	4%
Cassava	40%	45%	47%	45%	46%
Sweetpotatoes	13%	11%	10%	7%	7%
Sugar	0%	2%	2%	4%	3%
Vanilla	0%	0%	0%	0%	0%
Coffee	4%	1%	1%	0%	1%
Cloves	0%	0%	0%	0%	0%
Cocoa	0%	0%	0%	0%	0%
Pepper	0%	0%	0%	0%	0%
	1	1	1	1	1
Other crops	4%	3%	3%	4%	4%

DRA for primary agriculture

in %	1955	1956	1957	1958	1959
Importable	0.177	0.177	0.177	0.177	0.177
Exportable	0.000713621	0.001354088	0.0005334	-0.000221204	-0.000348367
Total	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

	1960-64	1965-69	1970-74	1975-79	1980-84
Importable	0.2	0.1	-0.2	-0.2	-0.4
Exportable	-0.2	-0.2	-0.2	-0.6	-0.7
Total	#VALUE!	-0.1	-0.1	-0.3	-0.4

	1955-59	1960-64	1965-69	1970-74	1975-79
Importable	18%	20%	13%	-18%	-20%
Exportable	0%	-17%	-23%	-17%	-60%
Total	#VALUE!	#VALUE!	-11%	-13%	-27%

e, exportable I took vanilla as an example for lightly processed

in %	1955	1956	1957	1958	1959
Importable	0.15	0.15	0.15	0.15	0.15
Exportable	0	0	0	0	0
Total	0.075	0.075	0.075	0.075	0.075

	1955-59	1960-64	1965-69	1970-74	1975-79
Importable	0.2	0.2	0.2	0.2	0.2
Exportable	0.0	-0.1	-0.1	-0.1	-0.1
Total	0.1	0.0	0.0	0.0	0.0

As for lightly processed food

in %	1955	1956	1957	1958	1959
Importable	0.00	0.00	0.00	0.00	0.00
Exportable	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Total	0.00	0.00	0.00	0.00	0.00

	1955-59	1960-64	1965-69	1970-74	1975-79
Importable	0.0	0.0	0.0	-0.1	-0.1
Exportable	#VALUE!	#VALUE!	-0.1	-0.1	-0.2
Total	0.0	0.0	0.0	0.0	0.0

(c) CTEs for primary and lightly processed food

in %	1955	1956	1957	1958	1959
Importable	0.00	0.00	0.00	0.00	0.00
Exportable	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00

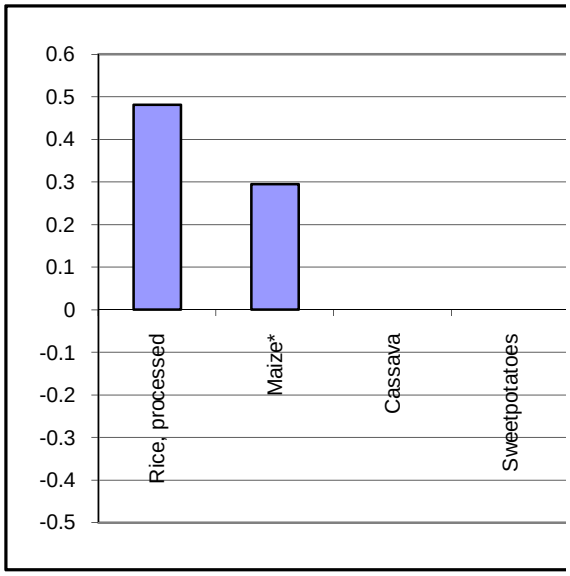
	1955-59	1960-64	1965-69	1970-74	1975-79
Importable	0.0	0.0	0.0	-0.2	-0.1
Exportable	0.0	0.0	-0.4	0.2	-0.2
Total	0.0	0.0	-0.1	-0.1	-0.1

Figure 3: DRAs by commodity, Madagascar, 2000-2004

	2000	2001	2002	2003	2004
Rice, processed	0.526121916	0.50011025	0.358191	0.36305896	0.656368823
Maize	0.401233537	0.303712816	0.1802685	n.a.	n.a.
Cassava	0	0	0	0	0
Sweetpotatoes	0	0	0	n.a.	n.a.
Sugar	-0.27081546	-0.18388242	0.0481735	0.10207912	0.164203642
Vanilla	-0.021777676	0.013480083	-0.084088		

Coffee	-0.273387781	-0.17896353	-0.456569	-0.594583664	n.a.
Cloves	-0.026320502	-0.55204044	0.0183733	n.a.	n.a.
Cocoa	-0.236121532	0.005132001	-0.228841	-0.281440301	n.a.
Pepper	0.202189802	0.056297943	-0.564502	n.a.	n.a.

Rice, processed	0.4807702
Maize*	0.295071611
Cassava	0
Sweetpotatoes	0
Pepper*	-0.030795087
Vanilla*	-0.028048324
Sugar	-0.102004839
Cloves	-0.186662544
Cocoa*	-0.185317687
Coffee*	-0.375876086

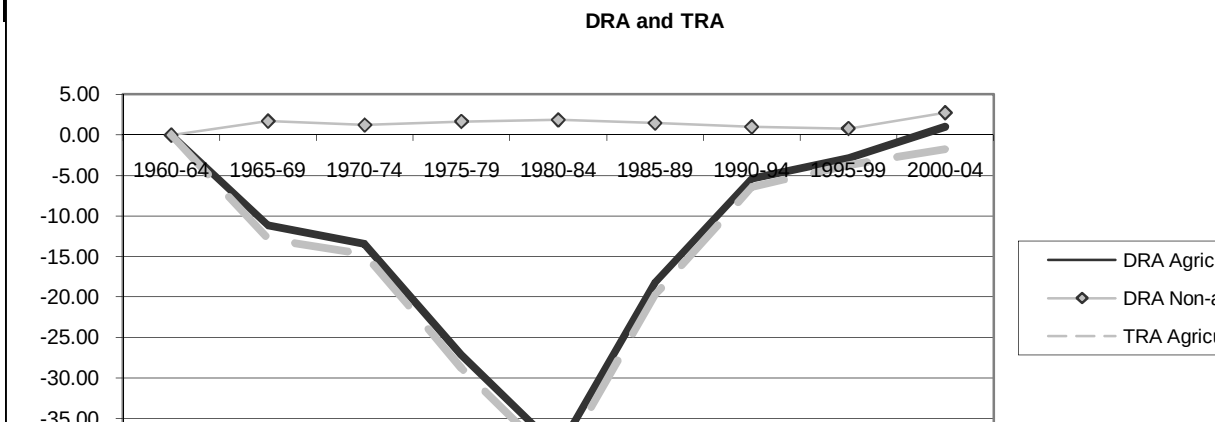


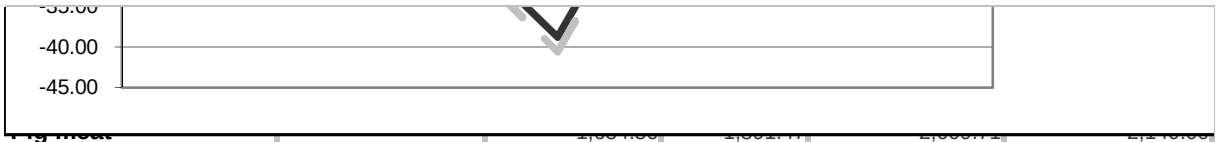
	1955	1956	1957	1958	1959
Exportables					
Cloves	n.a.	n.a.	n.a.	n.a.	n.a.
Vanilla					
Pepper	n.a.	n.a.	n.a.	n.a.	n.a.
Coffee	n.a.	n.a.	n.a.	n.a.	n.a.
Cocoa	n.a.	n.a.	n.a.	n.a.	n.a.
Importables					
Rice	n.a.	n.a.	n.a.	n.a.	n.a.
Sugar	0.03569275	0.05362024	0.01873	-0.00702427	-0.011491248
Nontradables					
Cassava	n.a.	n.a.	n.a.	n.a.	n.a.
Maize	n.a.	n.a.	n.a.	n.a.	n.a.
Sweetpotatoes	n.a.	n.a.	n.a.	n.a.	n.a.
Weighted average					
DRA Agriculture	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
DRA Non-agric	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
TRA Agriculture	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

	1960-64	1965-69	1970-74	1975-79	1980-84
Exportables					
Cloves	n.a.	-44.72	-18.10	-80.58	-91.75
Vanilla	-14.84	-12.69	-9.36	-13.64	-18.33
Pepper	n.a.	-33.95	-4.07	-39.14	-46.72
Coffee	n.a.	-26.62	-15.27	-63.00	-73.51
Cocoa	n.a.	-31.57	-30.31	-71.03	-68.44
Importables					
Rice	-6.43	-6.70	-6.26	-5.85	-12.26
Sugar	3.77	-15.45	-10.03	-26.49	-15.37
Nontradables					
Cassava	0.00	0.00	0.00	0.00	0.00
Maize	0.00	-27.59	2.66	17.74	-4.13
Sweetpotatoes	0.00	0.00	0.00	0.00	0.00
Weighted average					
DRA Agriculture	#VALUE!	-11.13	-13.46	-27.06	-38.76
DRA Non-agric	#VALUE!	1.71	1.22	1.67	1.87
TRA Agriculture	#VALUE!	-12.84	-14.68	-28.73	-40.62

	1960-64	1965-69	1970-74	1975-79	1980-84
DRA Agriculture	0.12625693	0.0696517	-0.131557	-0.303324101	-0.398530323
DRA Non-agric	0.030818062	0.027660041	0.0221796	0.017989506	0.01598402
TRA Agriculture	0.095438869	0.041991659	-0.153737	-0.321313606	-0.414514343

	1960-64	1965-69	1970-74	1975-79	1980-84
DRA Agriculture	#VALUE!	-11.13	-13.46	-27.06	-38.76
DRA Non-agric	#VALUE!	1.71	1.22	1.67	1.87



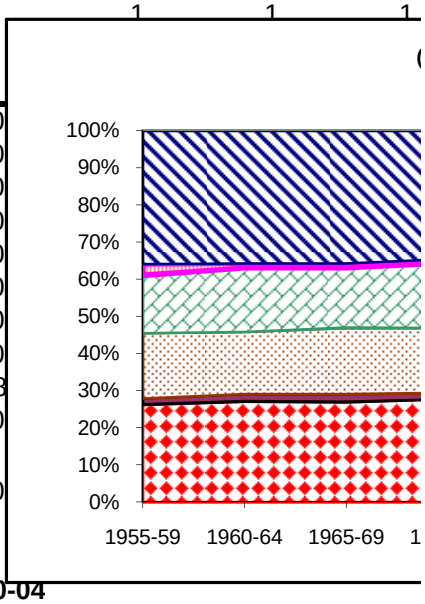


Meat, nec (incl. camel and game meat)		901.35	1,148.55	1,271.19	1,110.38
Chicken meat		1,304.58	1,662.36	1,839.88	1,607.12
Duck, goose or guinea fowl meat		1,031.54	1,314.44	1,454.58	1,270.56
Cottonseed		281.8	313.13	314.4	227.01
Cashew nuts		1,772.68	1,506.18	1,513.58	1,137.68
Milk, whole, fresh		257.72	308.14	344.25	258.84

1960	1961	1962	1963	1964	1965	1966
1212000	1464968.4	1552027	1558985	1648062.756	1589309	1602847
80500	116920	102700	108300	133480	122555	140895
740000	926000	961000	984000	984305	1170940	1022320
262000	303000	290000	330000	338170	340815	348545
950000	838000	850000	1015000	1015425	1010470	1036120
2600	2800	2400	4000	4200	4520	5520
55800	54000	73000	62000	70415	65640	71535
5200	11000	3200	5200	5060	6585	815
600	600	500	400	530	640	735
1100	2000	1700	2100	2070	1720	2355
3309800	3719288.4	3836527	4069985	4201717.756	4313194	4231687
4728285.714	5313269.143	5480752.857	5814264.286	6002453.937	6161706	6045267

1960	1961	1962	1963	1964	1965	1966
0.366185268	0.393884056	0.404539574	0.383044409	0.392235474	0.368476	0.378773
0.024321711	0.031436121	0.026769002	0.026609435	0.03176796	0.028414	0.033295
0.223578464	0.248972357	0.250486964	0.241769933	0.234262522	0.271479	0.241587
0.079158862	0.081467197	0.075589198	0.08108138	0.08048375	0.079017	0.082365
0.287026406	0.225311917	0.221554547	0.249386669	0.241669017	0.234274	0.244848
0.000785546	0.000752832	0.000625566	0.000982805	0.000999591	0.001048	0.001304
0.016859025	0.014518906	0.019027626	0.015233471	0.016758622	0.015218	0.016905
0.001571092	0.002957555	0.000834088	0.001277646	0.001204269	0.001527	0.000193
0.00018128	0.000161321	0.000130326	9.82805E-05	0.000126139	0.000148	0.000174
0.000332346	0.000537737	0.000443109	0.000515972	0.000492656	0.000399	0.000557
1	1	1	1	1	1	1

1960	1961	1962	1963	
0.256329688	0.275718839	0.283177702	0.268131086	0
0.017025198	0.022005285	0.018738302	0.018626604	0
0.156504925	0.17428065	0.175340875	0.169238953	0
0.055411203	0.057027038	0.052912439	0.056756966	0
0.200918485	0.157718342	0.155088183	0.174570668	0
0.000549882	0.000526983	0.000437896	0.000687963	0
0.011801317	0.010163234	0.013319338	0.01066343	0
0.001099764	0.002070288	0.000583861	0.000894352	0
0.000126896	0.000112925	9.12283E-05	6.87963E-05	8
0.000232642	0.000376416	0.000310176	0.000361181	0
0.7	0.7	0.7	0.7	
0.356870506	0.359586667	0.353897705	0.358081295	0



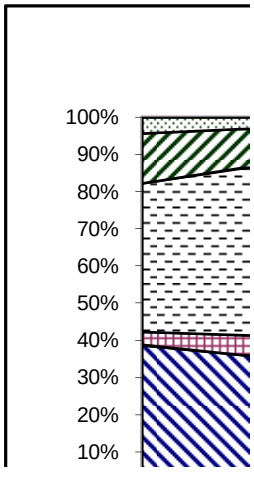
1980-84	1985-89	1990-94	1995-99	2000-04
24%	22%	23%	22%	25%
1%	2%	1%	2%	2%
21%	22%	22%	22%	21%
17%	19%	19%	19%	17%
0%	0%	0%	0%	0%
1%	1%	1%	1%	1%

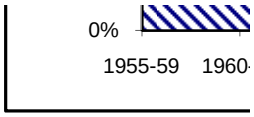
35%	35%	35%	35%	35%	
1	1	1	1	1	

1960	1961	1962	1963	1964	1965	1966
807287.0239	616258.2418	604390.044	656389.407	707630.1563	877051	784430.7
75331	105489	94215	97960	122713	112318	127166
727157	829000	861060	880212	890229	1055506	916716
262000	175740	168200	191400	196139	197673	202156
0	67043.44	21104.76	52588	42133.8	106612.7	4276
-65	616	528	-100	-105	-113	-138
15580	14253	17030	17679	32518	15638	25944
3374	581	310	444	412	562	442
600	202	203	201	234	182	244
1100	412	431	399	458	477	348
1892364.024	1809594.682	1767471.804	1897172.407	1992361.956	2365907	2061585

1960	1961	1962	1963	1964	1965	1966
0.426602395	0.340550427	0.341951732	0.345983003	0.355171486	0.370704	0.380499
0.03980788	0.058294269	0.053304952	0.051634738	0.06159172	0.047474	0.061684
0.38425852	0.458113636	0.487170431	0.463959942	0.446820919	0.446132	0.444666
0.138451163	0.09711567	0.095164177	0.100886983	0.098445465	0.083551	0.098059
0	0.037048871	0.011940649	0.027719147	0.021147663	0.045062	0.002074
-3.43486E-05	0.000340408	0.000298732	-5.271E-05	-5.27013E-05	-4.8E-05	-6.7E-05
0.008233088	0.007876349	0.009635231	0.009318605	0.016321332	0.00661	0.012584
0.001782955	0.000321066	0.000175392	0.000234032	0.00020679	0.000238	0.000214
0.000317064	0.000111627	0.000114853	0.000105947	0.000117449	7.69E-05	0.000118
0.000581284	0.000227675	0.000243851	0.000210313	0.000229878	0.000202	0.000169
1	1	1	1	1	1	1

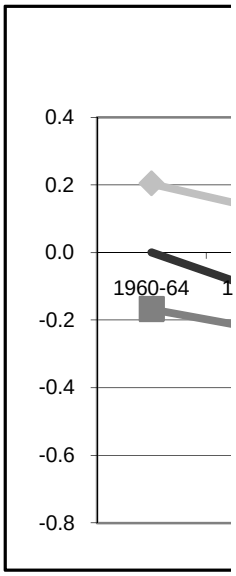
1980-84	1985-89	1990-94	1995-99	2000-04
39%	33%	31%	32%	38%
3%	3%	3%	4%	5%
48%	52%	55%	53%	45%
7%	7%	7%	7%	8%
3%	3%	3%	4%	3%
0%	0%	0%	0%	0%
1%	1%	1%	1%	1%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
1	1	1	1	1
4%	4%	4%	5%	5%





1960	1961	1962	1963	1964	1965	1966
0.206220696	0.212121212	0.184313134	0.216286039	0.201541485	-0.24114	0.224384
-0.101789811	-0.230824212	-0.131840943	-0.175257393	-0.195741186	-0.08287	-0.26084
#VALUE!	-0.084939844	-0.048193598	-0.070532423	-0.081101906	-0.07857	-0.12156

1985-89	1990-94	1995-99	2000-04
0.0	0.0	0.0	0.1
-0.6	-0.3	-0.2	-0.2
-0.2	-0.1	0.0	0.0



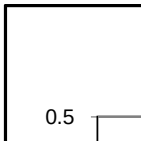
1980-84	1985-89	1990-94	1995-99	2000-04
-41%	3%	4%	4%	8%
-73%	-62%	-32%	-18%	-21%
-39%	-18%	-5%	-3%	1%

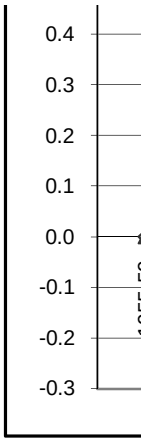
1960	1961	1962	1963	1964	1965	1966
0.15	0.15	0.15	0.15	0.15	0.15	0.15
-0.159436126	-0.148942729	-0.146197655	-0.159194899	-0.128123118	-0.13299	-0.10173
-0.004718063	0.000528635	0.001901173	-0.00459745	0.010938441	0.008504	0.024135

1980-84	1985-89	1990-94	1995-99	2000-04
0.2	0.2	0.2	0.2	0.2
-0.2	-0.2	-0.2	-0.1	0.0
0.0	0.0	0.0	0.0	0.1

1960	1961	1962	1963	1964	1965	1966
0.00	0.00	0.00	0.00	0.00	-0.07	0.00
#VALUE!	-0.09	-0.02	-0.06	-0.07	-0.06	-0.08
0.00	0.00	0.00	0.00	0.00	0.00	0.00

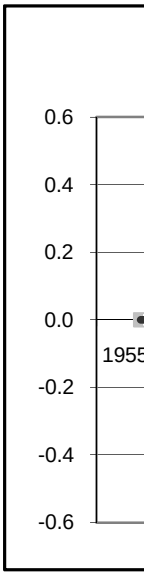
1980-84	1985-89	1990-94	1995-99	2000-04
-0.1	0.0	-0.1	-0.1	0.4
-0.2	-0.2	-0.1	0.0	0.0
0.0	0.0	0.0	0.0	0.0



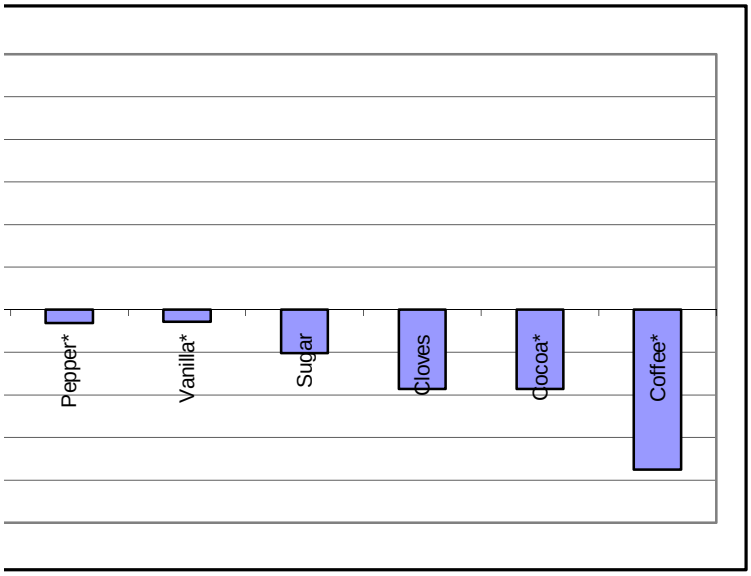


1960	1961	1962	1963	1964	1965	1966
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	-0.32
0.00	0.00	0.00	0.00	0.00	0.00	-0.11

1980-84	1985-89	1990-94	1995-99	2000-04
-0.3	0.0	0.0	0.1	0.5
-0.2	-0.3	0.2	-0.3	-0.1
-0.2	0.0	0.0	0.0	0.3

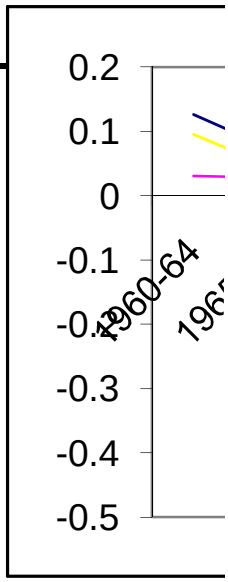


Pepper -0.102004839



1960	1961	1962	1963	1964	1965	1966
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.57419
-0.159436126	-0.148942729	-0.146197655	-0.1591949	-0.128123118	-0.13299	-0.10173
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.62094
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.28979
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.12014
n.a.	-0.079866934	-0.043642424	-0.06090457	-0.07279023	-0.07231	-0.06971
0.018398796	-0.172074806	0.279065559	0.059564652	0.00373224	-0.0334	-0.15452
n.a.	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.40734
n.a.	0	0	0	0	0	0
#VALUE!	-0.084939844	-0.048193598	-0.07053242	-0.081101906	-0.07857	-0.12156
#VALUE!	0.016300584	0.015803378	0.017974389	0.015944631	0.01724	0.01791
#VALUE!	-0.101240428	-0.063996976	-0.08850681	-0.097046538	-0.09582	-0.13947

1985-89	1990-94	1995-99	2000-04
-84.87	-62.70	-27.40	-18.67
-20.44	-18.67	-6.83	-3.08
-79.96	-30.18	-61.98	-10.20
-58.55	-28.86	-12.66	-37.59
-60.49	-25.65	-22.82	-18.53
-5.31	-12.19	-5.76	48.08
-7.58	-1.97	-13.74	-2.80
0.00	0.00	0.00	0.00
-6.65	28.65	-14.13	29.51
0.00	0.00	0.00	0.00
-18.18	-5.40	-2.90	1.00
1.46	1.01	0.82	2.73
-19.64	-6.40	-3.71	-1.73



1985-89	1990-94	1995-99	2000-04
-0.09536102	-0.014842069	-0.003300174	-0.030846349
0.019564075	0.009465883	0.002099075	0.018448955
-0.114925095	-0.024307952	-0.005399248	-0.049295304

1985-89	1990-94	1995-99	2000-04
-18.18	-5.40	-2.90	1.00
1.46	1.01	0.82	2.73
-19.64	-6.40	-3.71	-1.73

R:CARIB	n.a.	n.a.	n.a.	4.230	4.160	4.980
R:US	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
R:EU	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
995	1996	1997	1998	1999	2000	2001

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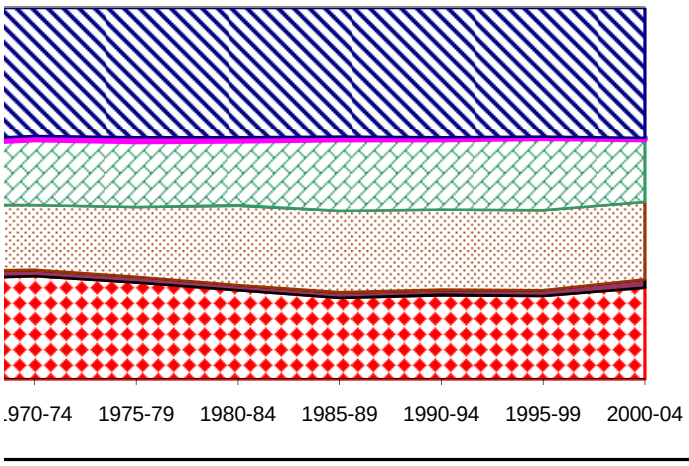
	,208,333.00	5,208,333.00	5,416,667.00	5,416,667.00	5,416,667.00	5,416,667.00	5,416,667.00
	1,221.00	1,282.45	1,063.99	995.46	862.01	800.4	822.14
	984.61	1,034.16	1,060.72	1,102.66	1,432.26	1,551.54	1,593.69
	1,538.83	1,799.37	1,511.00	1,413.66	1,360.17	1,262.95	1,362.13
	798.45	838.64	860.17	894.18	824.64	816.75	996.23
	1,155.65	1,213.81	1,244.98	1,294.20	1,193.55	1,182.12	1,441.91
	914.26	959.97	985.19	1,024.51	1,331.84	1,396.87	1,517.80
	269.78	341.04	277.8	281.17	218.25	206.48	232.37

937.41	1,093.13	710.21	520.77	517.76	754.48	729.57
198.01	207.98	212.37	248.36	241.95	249.62	256.4

1967	1968	1969	1970	1971	1972	1973	1974	1975
1706351	1796542	1844038	1945942	1892990	1923635	1913348	2013456	1972154
145515	140890	142985	108825	113490	105805	107870	118010	119675
1042525	1140239	1253145	1218220	1209680	1212680	1174790	1264175	1309355
357170	363560	366785	349590	327545	311625	246355	267380	279300
980280	948975	1112910	1155000	1189690	1043200	1191255	1571530	1377545
5560	3980	5600	4800	6880	7200	6520	9132	9732
73065	70850	63945	66555	57710	68585	73880	80900	83560
13540	920	4790	13430	6345	5810	4305	23000	4500
795	825	885	1000	1040	1240	1200	1560	1380
2650	2915	2770	2115	3490	2445	3740	2898	4500
4327451	4469696	4797853	4865477	4808860	4682225	4723263	5352041	5161701
6182073	6385280	6854076	6950682	6869799	6688892	6747519	7645773	7373858

1967	1968	1969	1970	1971	1972	1973	1974	1975
0.394309	0.401938	0.384347	0.399949	0.393646	0.410838	0.40509	0.376203	0.382074
0.033626	0.031521	0.029802	0.022367	0.0236	0.022597	0.022838	0.02205	0.023185
0.24091	0.255104	0.261189	0.25038	0.251552	0.258997	0.248724	0.236204	0.253667
0.082536	0.081339	0.076448	0.071851	0.068113	0.066555	0.052158	0.049959	0.05411
0.226526	0.212313	0.23196	0.237387	0.247395	0.2228	0.25221	0.293632	0.266878
0.001285	0.00089	0.001167	0.000987	0.001431	0.001538	0.00138	0.001706	0.001885
0.016884	0.015851	0.013328	0.013679	0.012001	0.014648	0.015642	0.015116	0.016188
0.003129	0.000206	0.000998	0.00276	0.001319	0.001241	0.000911	0.004297	0.000872
0.000184	0.000185	0.000184	0.000206	0.000216	0.000265	0.000254	0.000291	0.000267
0.000612	0.000652	0.000577	0.000435	0.000726	0.000522	0.000792	0.000541	0.000872
1	1	1	1	1	1	1	1	1

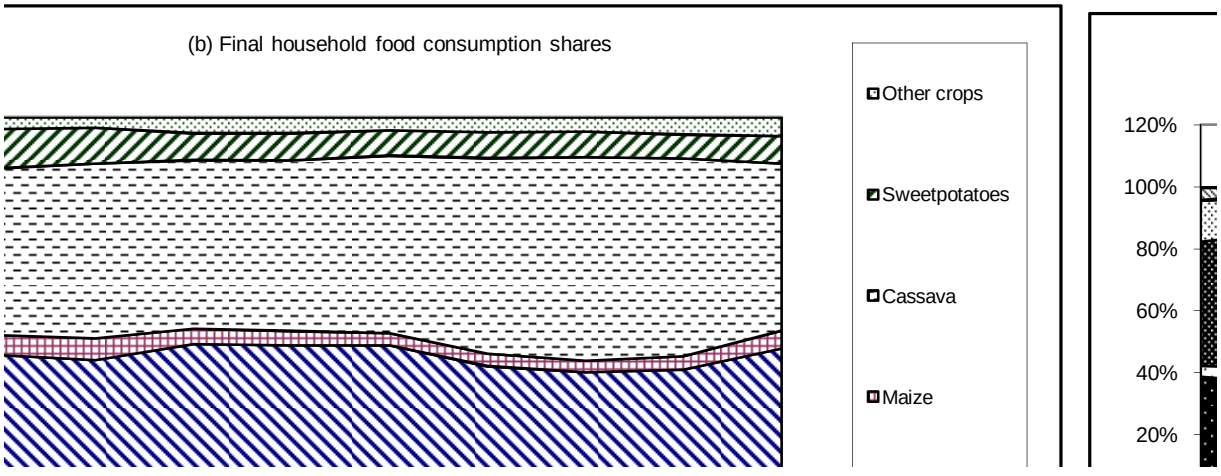
(a) Primary Agricultural Production Shares

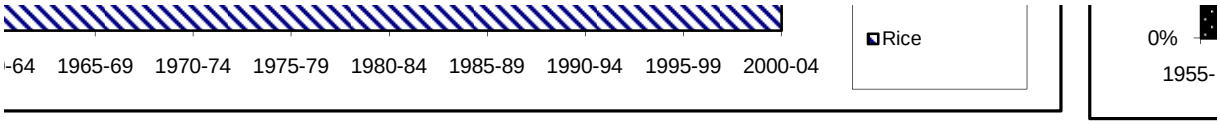


		973	1974	1975
		563	0.263342	0.267452
		987	0.015435	0.01623
		107	0.165343	0.177567
		651	0.034971	0.037877
		547	0.205542	0.186815
		966	0.001194	0.00132
		949	0.010581	0.011332
		638	0.003008	0.00061
		178	0.000204	0.000187
		554	0.000379	0.00061
		0.7	0.7	0.7
		881	0.338562	0.339285

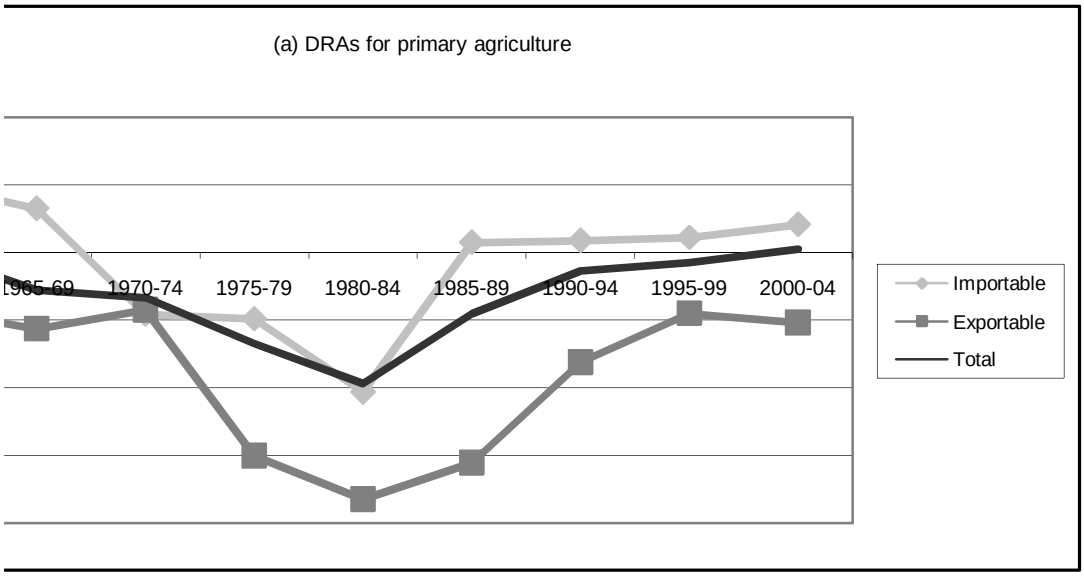
1967	1968	1969	1970	1971	1972	1973	1974	1975
683229	637502.5	782308.8	807995.9	918720.7	911318	1015109	1112654	1057430
129764	129191	129479	98756	99684	96320	99413	109668	109987
935125	1030547	1137670	1102722	1096153	1097978	1070111	1148175	1189174
207159	210865	212735	202762	189976	180742	142886	155080	161994
6268	46967	45701	63679	80153.4	81588	82179	154382.8	82980.8
-139	-99.5	-140	-120	-172	-180	-549	-1263.4	-243.3
23223	17199	14433	14650	5837	12418	8569	15554	16126
781	495	1016	1252	1049	994	1065	1730	1646
331	332	464	341	235	167	157	133	119
299	320	277	288	256	258	200	200	205
1986040	2073319	2323944	2292326	2391892	2381603	2419140	2696313	2619418

1967	1968	1969	1970	1971	1972	1973	1974	1975
0.344016	0.307479	0.33663	0.352479	0.384098	0.382649	0.419616	0.412657	0.403689
0.065338	0.062311	0.055715	0.043081	0.041676	0.040443	0.041094	0.040673	0.041989
0.470849	0.497052	0.489543	0.481049	0.458279	0.461025	0.442352	0.425831	0.453984
0.104308	0.101704	0.091541	0.088453	0.079425	0.075891	0.059065	0.057516	0.061844
0.003156	0.022653	0.019665	0.027779	0.03351	0.034258	0.03397	0.057257	0.031679
-7E-05	-4.8E-05	-6E-05	-5.2E-05	-7.2E-05	-7.6E-05	-0.00023	-0.00047	-9.3E-05
0.011693	0.008295	0.006211	0.006391	0.00244	0.005214	0.003542	0.005769	0.006156
0.000393	0.000239	0.000437	0.000546	0.000439	0.000417	0.00044	0.000642	0.000628
0.000167	0.00016	0.0002	0.000149	9.82E-05	7.01E-05	6.49E-05	4.93E-05	4.54E-05
0.000151	0.000154	0.000119	0.000126	0.000107	0.000108	8.27E-05	7.42E-05	7.83E-05
1	1	1	1	1	1	1	1	1



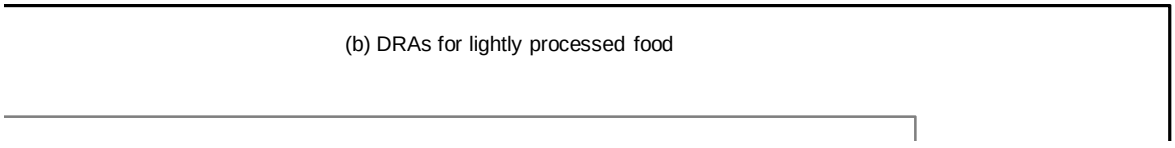


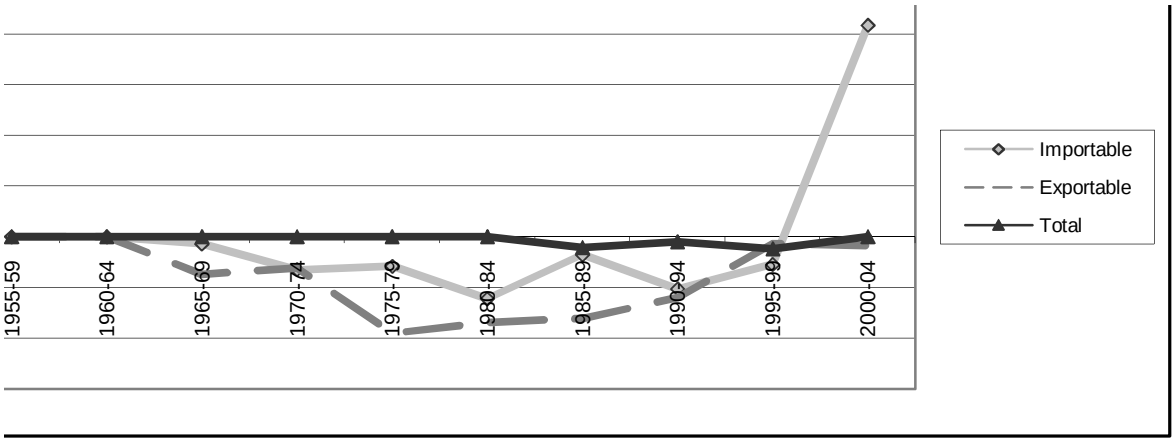
1967	1968	1969	1970	1971	1972	1973	1974	1975
0.204647	0.202708	0.260981	0.181727	0.036063	0.000209	-0.5016	-0.63083	-0.31622
-0.18471	-0.35196	-0.24646	-0.02581	-0.09562	-0.0629	-0.21074	-0.45109	-0.30358
-0.08386	-0.1681	-0.10424	-0.00883	-0.00822	-0.01062	-0.24068	-0.40479	-0.19078



1967	1968	1969	1970	1971	1972	1973	1974	1975
0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
-0.13718	-0.12563	-0.13705	-0.10362	-0.0837	-0.08177	-0.08878	-0.11011	-0.11047
0.006411	0.012184	0.006475	0.02319	0.033152	0.034116	0.030608	0.019947	0.019764

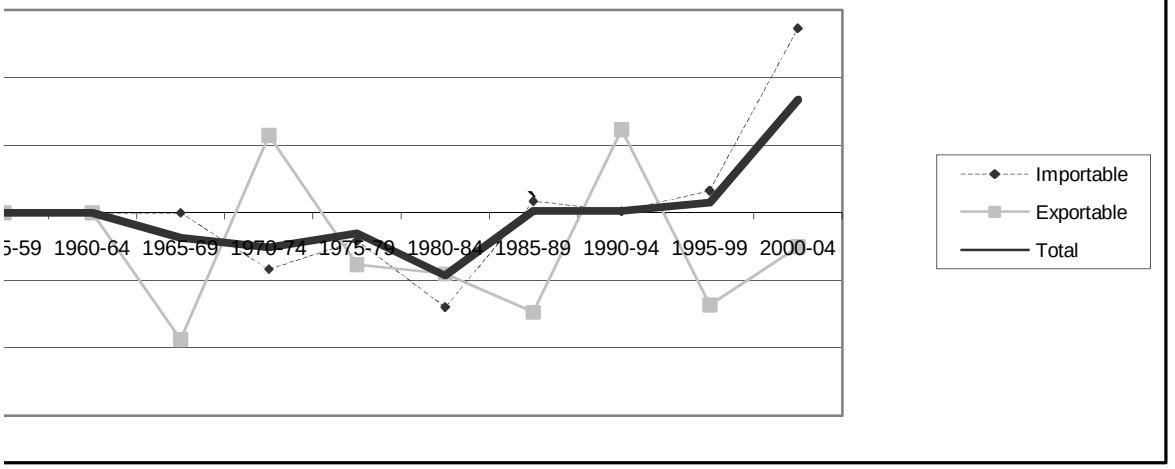
1967	1968	1969	1970	1971	1972	1973	1974	1975
0.00	0.00	0.00	0.00	0.01	0.00	-0.15	-0.19	-0.09
-0.04	-0.12	-0.08	0.00	-0.11	-0.07	0.01	-0.13	-0.22
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



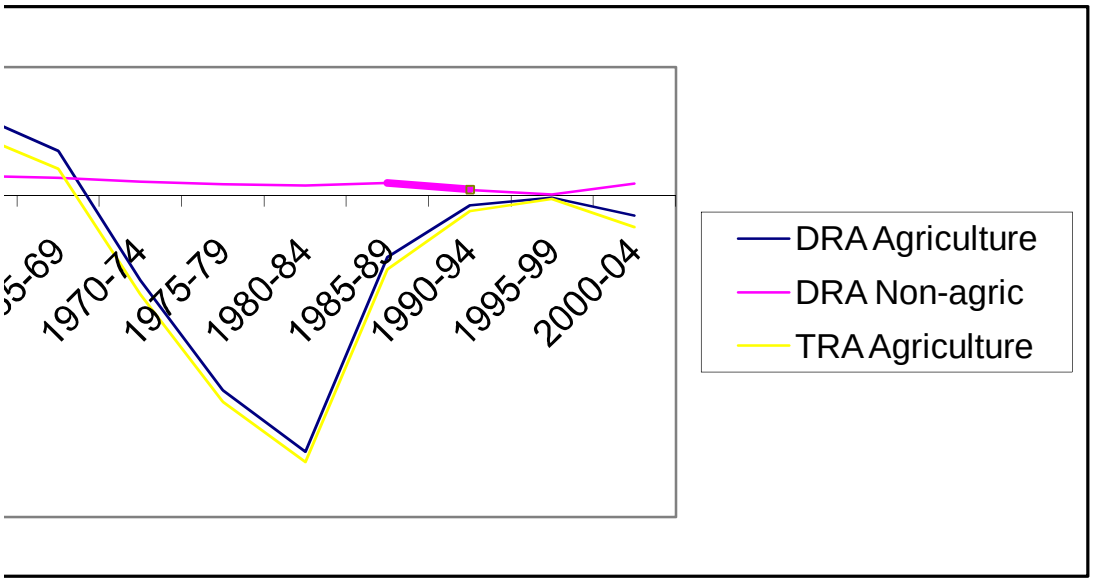


1967	1968	1969	1970	1971	1972	1973	1974	1975
0.00	0.00	0.00	0.00	0.00	0.00	-0.36	-0.47	-0.19
-0.06	-0.55	-0.95	1.33	-0.05	0.00	0.04	-0.17	-0.34
-0.02	-0.17	-0.08	0.06	0.00	0.00	-0.22	-0.35	-0.13

(c) CTEs for primary and lightly processed food



1967	1968	1969	1970	1971	1972	1973	1974	1975
-0.54317	-0.59161	-0.07972	0.07761	0.18395	0.2568	-0.68783	-0.73553	-0.73518
-0.13718	-0.12563	-0.13705	-0.10362	-0.0837	-0.08177	-0.08878	-0.11011	-0.11047
-0.48263	-0.41374	0.15946	-0.09026	-0.18607	0.06044	0.06387	-0.05149	-0.23562
-0.19588	-0.21035	-0.36879	-0.15132	-0.13969	-0.08402	-0.10984	-0.27849	-0.22095
-0.20173	-0.36974	-0.57111	-0.28528	-0.06553	-0.13509	-0.41621	-0.61324	-0.45601
-0.01583	-0.11687	-0.0604	0.01333	0.00935	-0.00185	-0.1484	-0.18525	-0.09399
-0.16311	-0.17544	-0.24591	-0.07507	-0.23509	-0.11239	0.11305	-0.19201	-0.37141
0	0	0	0	0	0	0	0	0
-0.2517	0	-0.44444	0	0.1332	0	0	0	0
0	0	0	0	0	0	0	0	0
-0.08386	-0.1681	-0.10424	-0.00883	-0.00822	-0.01062	-0.24068	-0.40479	-0.19078
0.0165	0.01293	0.02097	0.01509	0.01478	0.01429	0.00757	0.00921	0.01567
-0.10036	-0.18104	-0.12521	-0.02392	-0.023	-0.02491	-0.24826	-0.41401	-0.20645



5.670	4.170	3.410	3.260	3.240	3.480	5.158	3.492	2.983
n.a.	n.a.	n.a.	n.a.	5.950	6.090	5.633	5.700	5.633
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5.350	5.460	5.630

##########	##########	
1,614.35	2,018.85	
1,646.67	1,892.67	
1,641.98	2,484.74	
1,011.30	1,115.88	
1,463.71	1,682.38	
1,917.28	2,203.71	
181.94	202.78	

710.49	862.8
309.08	341.04

1976	1977	1978	1979	1980	1981	1982	1983	1984
2042514	2067291	1922021	2044903	2108921	2011505	1969870	2146977	2131103
136045	121965	114645	116440	127570	120665	113000	132100	141000
1389661	1412220	1594450	1569545	1683165	1670070	1898340	1992225	2047100
472295	387845	324960	364545	373255	398575	356090	463000	462500
1287178	1280715	1374930	1444320	1394990	1420380	1408565	1621200	1660000
3940	5148	5280	3036	3908	5668	7260	6876	9108
78930	91520	78200	81565	79880	83460	81225	80855	81400
12930	13555	12790	4180	12250	10800	9905	4230	18000
1557	1410	1530	1690	1690	1855	1895	1800	3000
4850	4855	2500	2545	2755	2955	2585	2600	2610
5429900	5386524	5431306	5632769	5788384	5725933	5848735	6451863	6555821
7756999	7695034	7759009	8046813	8269120	8179904	8355335	9216948	9365459

1976	1977	1978	1979	1980	1981	1982	1983	1984
0.37616	0.383789	0.353878	0.363037	0.364337	0.351297	0.336803	0.332769	0.32507
0.025055	0.022643	0.021108	0.020672	0.022039	0.021073	0.01932	0.020475	0.021508
0.255928	0.262176	0.293567	0.278645	0.290783	0.291668	0.324573	0.308783	0.312257
0.08698	0.072003	0.059831	0.064719	0.064483	0.069609	0.060883	0.071762	0.070548
0.237054	0.237763	0.253149	0.256414	0.240998	0.248061	0.240832	0.251276	0.25321
0.000726	0.000956	0.000972	0.000539	0.000675	0.00099	0.001241	0.001066	0.001389
0.014536	0.016991	0.014398	0.01448	0.0138	0.014576	0.013888	0.012532	0.012416
0.002381	0.002516	0.002355	0.000742	0.002116	0.001886	0.001694	0.000656	0.002746
0.000287	0.000262	0.000282	0.0003	0.000292	0.000324	0.000324	0.000279	0.000458
0.000893	0.000901	0.00046	0.000452	0.000476	0.000516	0.000442	0.000403	0.000398
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1976	1977	1978	1979	1980	1981	1982	1983	1984
0.263312	0.268653	0.247715	0.254126	0.255036	0.245908	0.235762	0.232938	0.227549
0.017538	0.01585	0.014776	0.01447	0.015427	0.014751	0.013524	0.014332	0.015055
0.179149	0.183524	0.205497	0.195052	0.203548	0.204167	0.227201	0.216148	0.21858
0.060886	0.050402	0.041882	0.045303	0.045138	0.048726	0.042618	0.050234	0.049384
0.165938	0.166434	0.177204	0.17949	0.168699	0.173643	0.168583	0.175893	0.177247
0.000508	0.000669	0.00068	0.000377	0.000473	0.000693	0.000869	0.000746	0.000973
0.010175	0.011893	0.010079	0.010136	0.00966	0.010203	0.009721	0.008772	0.008692
0.001667	0.001762	0.001648	0.000519	0.001481	0.00132	0.001185	0.000459	0.001922
0.000201	0.000183	0.000197	0.00021	0.000204	0.000227	0.000227	0.000195	0.00032
0.000625	0.000631	0.000322	0.000316	0.000333	0.000361	0.000309	0.000282	0.000279
0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
0.363379	0.352978	0.344049	0.346349	0.347157	0.350634	0.34434	0.35117	0.351905

1976	1977	1978	1979	1980	1981	1982	1983	1984
1048046	1092897	1138452	1249134	1146832	1240302	1587350	1510411	1382765
124412	107844	102253	105371	118366	111609	103505	122777	126311
1256906	1284172	1450404	1429345	1531110	1514070	1722340	1808224	1863100
273932	224950	188477	211436	216488	231174	206532	268540	268250
89747.56	88972.08	129741.8	109052.9	107957	120733	80406.8	105260	64825.8
-98.5	-128.7	-132	-75.9	-97.7	-141.7	-181.5	-171.9	-227.7
5970	41331	23031	18682	10411	26519	27307	30826	30067
2191	1620	1523	1467	1890	2088	1961	1757	1732
111	104	127	66	64	57	58	36	206
207	307	247	275	259	315	322	269	306
2801424	2842068	3034124	3124753	3133279	3246725	3729600	3847929	3737335

1976	1977	1978	1979	1980	1981	1982	1983	1984
0.374112	0.384543	0.375216	0.399755	0.366016	0.382016	0.425609	0.392526	0.369987
0.04441	0.037946	0.033701	0.033721	0.037777	0.034376	0.027752	0.031907	0.033797
0.448667	0.451844	0.478031	0.457427	0.488661	0.466338	0.461803	0.469921	0.49851
0.097783	0.07915	0.062119	0.067665	0.069093	0.071202	0.055376	0.069788	0.071776
0.032036	0.031305	0.042761	0.0349	0.034455	0.037186	0.021559	0.027355	0.017345
-3.5E-05	-4.5E-05	-4.4E-05	-2.4E-05	-3.1E-05	-4.4E-05	-4.9E-05	-4.5E-05	-6.1E-05
0.002131	0.014543	0.007591	0.005979	0.003323	0.008168	0.007322	0.008011	0.008045
0.000782	0.00057	0.000502	0.000469	0.000603	0.000643	0.000526	0.000457	0.000463
3.96E-05	3.66E-05	4.19E-05	2.11E-05	2.04E-05	1.76E-05	1.56E-05	9.36E-06	5.51E-05
7.39E-05	0.000108	8.14E-05	8.8E-05	8.27E-05	9.7E-05	8.63E-05	6.99E-05	8.19E-05
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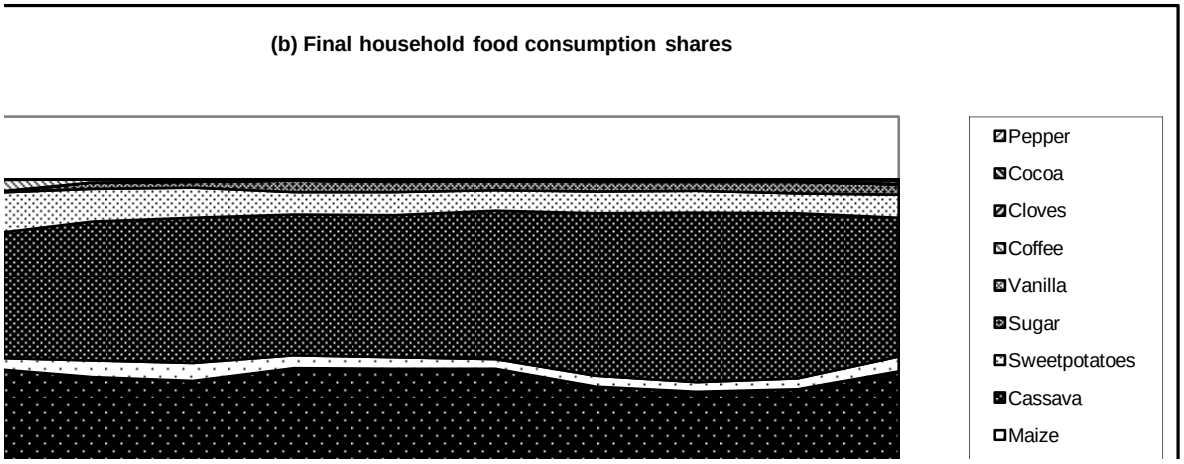

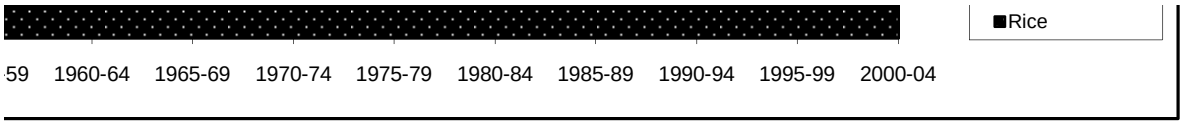

1976	1977	1978	1979	1980	1981	1982	1983	1984
-0.30743	0.131369	-0.42664	-0.06272	-0.20721	-0.50212	-0.54247	-0.52582	-0.28472
-0.7202	-0.67605	-0.71315	-0.59	-0.60847	-0.64721	-0.8125	-0.79898	-0.78367
-0.32552	-0.2577	-0.38487	-0.1941	-0.26693	-0.39976	-0.47456	-0.43005	-0.36647

1976	1977	1978	1979	1980	1981	1982	1983	1984
0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
-0.16323	-0.11214	-0.17953	-0.11667	-0.1367	-0.16081	-0.20764	-0.20738	-0.20383
-0.00661	0.018928	-0.01477	0.016663	0.006649	-0.00541	-0.02882	-0.02869	-0.02692

1976	1977	1978	1979	1980	1981	1982	1983	1984
-0.09	0.04	-0.13	-0.02	-0.06	-0.15	-0.16	-0.16	-0.09
-0.34	-0.03	-0.26	-0.10	-0.11	-0.10	-0.29	-0.21	-0.14
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1976	1977	1978	1979	1980	1981	1982	1983	1984
-0.18	0.21	-0.29	0.04	-0.09	-0.36	-0.40	-0.38	-0.17
-0.52	0.34	-0.18	-0.07	-0.06	0.01	-0.49	-0.21	-0.15
-0.12	0.12	-0.19	0.02	-0.06	-0.24	-0.29	-0.25	-0.09

1976	1977	1978	1979	1980	1981	1982	1983	1984
-0.83832	-0.81979	-0.85333	-0.78221	-0.8458	-0.90748	-0.94561	-0.95586	-0.93257
-0.16323	-0.11214	-0.17953	-0.11667	-0.1367	-0.16081	-0.20764	-0.20738	-0.20383
-0.46899	-0.34615	-0.56635	-0.3398	-0.18833	-0.38349	-0.56817	-0.54415	-0.6521
-0.75353	-0.73676	-0.75691	-0.68175	-0.60378	-0.58145	-0.82905	-0.8532	-0.80823
-0.78095	-0.77782	-0.84706	-0.68987	-0.5779	-0.58488	-0.74767	-0.7825	-0.72912
-0.09152	0.03814	-0.12586	-0.01936	-0.06138	-0.14831	-0.16061	-0.15631	-0.08664
-0.49306	-0.00856	-0.33873	-0.11268	-0.10113	-0.03493	-0.44473	-0.21419	0.02631
0	0	0	0	0	0	0	0	0
0	0.63284	0.25395	0	0	0	0	0	-0.2064
0	0	0	0	0	0	0	0	0
-0.32552	-0.2577	-0.38487	-0.1941	-0.26693	-0.39976	-0.47456	-0.43005	-0.36647
0.02013	0.0122	0.01924	0.01649	0.01396	0.01708	0.01876	0.02404	0.01949
-0.34565	-0.26991	-0.40411	-0.21058	-0.28089	-0.41684	-0.49332	-0.4541	-0.38595

3.133	2.917	2.975	8.508	5.867	2.117	1.867	2.000	1.992
5.708	5.700	5.825	7.525	6.292	6.175	6.392	6.675	6.933
5.540	5.630	5.630	5.740	5.740	5.820	5.940	5.869	5.090

1985	1986	1987	1988	1989	1990	1991	1992	1993
2177677	2230247	2177993	2149007	2380013	2420055	2342244	2450021	2549951
140200	152890	158100	156400	160475	155000	145000	130000	165000
2142000	2421300	2178400	2186300	2277000	2292000	2307000	2280000	2350000
450000	467140	466760	466900	483200	486000	487989	451948	500000
1744150	1950000	1980600	1985000	1990000	2000000	1950000	1900000	1950000
9240	4356	10296	10296	10032	6600	6204	5280	6600
78500	82280	80750	83500	88200	85000	83865	79882	78000
14000	7100	6500	10100	7100	9500	14644	11534	16500
2300	2400	3100	3600	3700	3600	3126	4000	4500
2800	2830	3000	3500	3700	1600	2100	2000	2300
6760867	7320543	7065499	7054603	7403420	7459355	7342172	7314665	7622851
9658381	10457919	10093570	10078005	10576314	10656221	10488817	10449521	10889788

1985	1986	1987	1988	1989	1990	1991	1992	1993
0.3221	0.304656	0.308257	0.304625	0.321475	0.324432	0.319012	0.334946	0.334514
0.020737	0.020885	0.022376	0.02217	0.021676	0.020779	0.019749	0.017773	0.021645
0.316823	0.330754	0.308315	0.309911	0.307561	0.307265	0.314212	0.311703	0.308284
0.06656	0.063812	0.066062	0.066184	0.065267	0.065153	0.066464	0.061787	0.065592
0.257977	0.266374	0.28032	0.281377	0.268795	0.26812	0.265589	0.259752	0.25581
0.001367	0.000595	0.001457	0.001459	0.001355	0.000885	0.000845	0.000722	0.000866
0.011611	0.01124	0.011429	0.011836	0.011913	0.011395	0.011422	0.010921	0.010232
0.002071	0.00097	0.00092	0.001432	0.000959	0.001274	0.001995	0.001577	0.002165
0.00034	0.000328	0.000439	0.00051	0.0005	0.000483	0.000426	0.000547	0.00059
0.000414	0.000387	0.000425	0.000496	0.0005	0.000214	0.000286	0.000273	0.000302
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1985	1986	1987	1988	1989	1990	1991	1992	1993
0.22547	0.213259	0.21578	0.213237	0.225032	0.227103	0.223309	0.234462	0.23416
0.014516	0.01462	0.015663	0.015519	0.015173	0.014545	0.013824	0.012441	0.015152
0.221776	0.231528	0.215821	0.216938	0.215292	0.215086	0.219949	0.218192	0.215799
0.046592	0.044669	0.046243	0.046329	0.045687	0.045607	0.046525	0.043251	0.045915
0.180584	0.186462	0.196224	0.196964	0.188156	0.187684	0.185912	0.181827	0.179067
0.000957	0.000417	0.00102	0.001022	0.000949	0.000619	0.000591	0.000505	0.000606
0.008128	0.007868	0.008	0.008285	0.008339	0.007977	0.007996	0.007645	0.007163
0.00145	0.000679	0.000644	0.001002	0.000671	0.000891	0.001396	0.001104	0.001515
0.000238	0.000229	0.000307	0.000357	0.00035	0.000338	0.000298	0.000383	0.000413
0.00029	0.000271	0.000297	0.000347	0.00035	0.00015	0.0002	0.000191	0.000211
0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
0.348569	0.345848	0.347492	0.348035	0.347058	0.346987	0.348419	0.344929	0.348054

1985	1986	1987	1988	1989	1990	1991	1992	1993
1378739	1405631	1316482	1096010	1238835	1249481	1151381	1311393	1388901
128419	141823	139085	125086	129017	117192	122557	152260	144159
1946000	2201141	1978401	1983943	2068628	2075519	2214980	2288067	2384657
261000	270941	270721	270802	280256	281880	283033	262130	290000
151914	163964	73634	148936	48372	92875	116298	140986	123151
-231	-108.9	-257.4	-257.4	-250.8	565	-155.1	-132	-165
36847	34632	33093	40143	27699	37197	43003	30377	27090
1969	1887	1495	1726	1651	1278	1064	1048	1142
277	282	341	344	449	425	459	591	662
382	588	649	703	983	978	656	652	799
3905316	4220780	3813644	3667436	3795639	3857390	3933276	4187372	4360396

1985	1986	1987	1988	1989	1990	1991	1992	1993
0.353042	0.333026	0.345203	0.298849	0.326384	0.323919	0.292728	0.313178	0.318526
0.032883	0.033601	0.03647	0.034107	0.033991	0.030381	0.031159	0.036362	0.033061
0.498295	0.521501	0.518769	0.540962	0.545001	0.538063	0.563139	0.546421	0.54689
0.066832	0.064192	0.070987	0.07384	0.073836	0.073075	0.071959	0.0626	0.066508
0.038899	0.038847	0.019308	0.04061	0.012744	0.024077	0.029568	0.033669	0.028243
-5.9E-05	-2.6E-05	-6.7E-05	-7E-05	-6.6E-05	0.000146	-3.9E-05	-3.2E-05	-3.8E-05
0.009435	0.008205	0.008678	0.010946	0.007298	0.009643	0.010933	0.007254	0.006213
0.000504	0.000447	0.000392	0.000471	0.000435	0.000331	0.000271	0.00025	0.000262
7.09E-05	6.68E-05	8.94E-05	9.38E-05	0.000118	0.00011	0.000117	0.000141	0.000152
9.78E-05	0.000139	0.00017	0.000192	0.000259	0.000254	0.000167	0.000156	0.000183
1	1	1	1	1	1	1	1	1

1985	1986	1987	1988	1989	1990	1991	1992	1993
0.165701	-0.02752	-0.22202	0.256185	-0.01979	-0.02613	-0.05501	0.008789	0.233064
-0.66008	-0.62491	-0.66996	-0.64076	-0.51382	-0.36351	-0.38059	-0.52866	-0.39891
-0.15095	-0.14523	-0.27016	-0.20406	-0.13876	-0.07133	-0.08948	-0.06072	-0.06219

1985	1986	1987	1988	1989	1990	1991	1992	1993
0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
-0.19881	-0.19329	-0.21732	-0.20899	-0.20376	-0.20209	-0.21305	-0.17456	-0.17447
-0.0244	-0.02164	-0.03366	-0.02949	-0.02688	-0.02605	-0.03152	-0.01228	-0.01224

1985	1986	1987	1988	1989	1990	1991	1992	1993
0.05	-0.02	-0.07	0.00	-0.14	-0.19	-0.40	-0.02	0.00
-0.07	-0.15	-0.21	-0.20	-0.17	-0.18	-0.21	-0.18	-0.06
0.00	0.00	0.00	-0.11	0.00	0.00	0.00	0.00	-0.05

1985	1986	1987	1988	1989	1990	1991	1992	1993
0.24	0.06	-0.11	0.00	-0.03	-0.07	-0.27	0.11	0.00
-0.38	-0.36	-0.26	-0.22	-0.25	0.06	0.04	-0.28	0.26
0.11	0.03	-0.06	-0.02	-0.02	-0.03	-0.13	0.05	0.00

1985	1986	1987	1988	1989	1990	1991	1992	1993
-0.78914	-0.79695	-0.88744	-0.90622	-0.86397	-0.85981	-0.81711	-0.68446	-0.45272
-0.19881	-0.19329	-0.21732	-0.20899	-0.20376	-0.20209	-0.21305	-0.17456	-0.17447
-0.73201	-0.76945	-0.8848	-0.82924	-0.78268	-0.70902	-0.2686	-0.15819	-0.21878
-0.67703	-0.59009	-0.6388	-0.58068	-0.44072	-0.20627	-0.31132	-0.61353	-0.69416
-0.63351	-0.57629	-0.78978	-0.66171	-0.3634	-0.36826	-0.06674	-0.50158	-0.51973
0.04782	-0.00971	-0.06706	-0.09352	-0.14299	-0.18939	-0.39682	-0.01905	-0.09352
0.29702	-0.07977	-0.21203	-0.22574	-0.15871	-0.19317	-0.26538	-0.22936	0.19509
0	0	0	0	0	0	0	0	0
0	0	0.15699	-0.25929	-0.23007	0.40288	0.53201	0.13987	0.37613
0	0	0	0	0	0	0	0	0
-0.15095	-0.14523	-0.27016	-0.20406	-0.13876	-0.07133	-0.08948	-0.06072	-0.06219
0.01675	0.01408	0.02095	0.01248	0.00861	0.01065	0.00291	0.01331	0.0118
-0.1677	-0.15931	-0.29111	-0.21653	-0.14737	-0.08197	-0.09239	-0.07403	-0.074

3.392	3.758	4.525	7.483	9.617	29.942	20.558	11.559	8.111
7.142	7.500	7.933	8.533	10.290	29.483	22.473	13.310	11.004
5.090	5.090	5.163	6.805	6.670	10.646	15.441	13.391	14.013

1994	1995	1996	1997	1998	1999	2000	2001	2002
2357047	2449960	2500020	2558010	2447022	2570043	2480516	2662494	2603985
155000	177000	180000	178000	152000	175000	169800	179550	171950
2360000	2400000	2353000	2418000	2412000	2461000	2463360	2510340	2366250
560000	450000	500000	510000	510000	520000	512640	525130	493030
2166000	2100000	2150000	2160000	2180000	2180000	2188630	2208450	2223400
5280	5544	5808	5676	6600	7128	5808	6072	7480
70000	68000	68000	55000	60000	65000	58080	64530	61520
14000	13000	13000	14500	13500	15000	15600	15500	15500
3000	4000	4300	4300	4300	4300	4395	4410	4410
2400	2000	2100	1500	1700	1620	1570	1595	1605
7692727	7669504	7776228	7904986	7787122	7999091	7900399	8178071	7949130
10989609	10956434	11108897	11292837	11124460	11427273	11286285	11682959	11355900

1994	1995	1996	1997	1998	1999	2000	2001	2002
0.306399	0.319442	0.321495	0.323595	0.31424	0.321292	0.313974	0.325565	0.327581
0.020149	0.023078	0.023147	0.022517	0.019519	0.021877	0.021493	0.021955	0.021631
0.306783	0.312928	0.302589	0.305883	0.309742	0.30766	0.311802	0.30696	0.297674
0.072796	0.058674	0.064299	0.064516	0.065493	0.065007	0.064888	0.064212	0.062023
0.281565	0.273812	0.276484	0.273245	0.279949	0.272531	0.277028	0.270045	0.279704
0.000686	0.000723	0.000747	0.000718	0.000848	0.000891	0.000735	0.000742	0.000941
0.0091	0.008866	0.008745	0.006958	0.007705	0.008126	0.007352	0.007891	0.007739
0.00182	0.001695	0.001672	0.001834	0.001734	0.001875	0.001975	0.001895	0.00195
0.00039	0.000522	0.000553	0.000544	0.000552	0.000538	0.000556	0.000539	0.000555
0.000312	0.000261	0.00027	0.00019	0.000218	0.000203	0.000199	0.000195	0.000202
1	1	1	1	1	1	1	1	1

1994	1995	1996	1997	1998	1999	2000	2001	2002
0.21448	0.223609	0.225047	0.226516	0.219968	0.224904	0.219781	0.227896	0.229307
0.014104	0.016155	0.016203	0.015762	0.013664	0.015314	0.015045	0.015369	0.015142
0.214748	0.219049	0.211812	0.214118	0.21682	0.215362	0.218261	0.214872	0.208372
0.050957	0.041072	0.045009	0.045161	0.045845	0.045505	0.045422	0.044948	0.043416
0.197095	0.191668	0.193539	0.191272	0.195965	0.190772	0.193919	0.189032	0.195792
0.00048	0.000506	0.000523	0.000503	0.000593	0.000624	0.000515	0.00052	0.000659
0.00637	0.006206	0.006121	0.00487	0.005394	0.005688	0.005146	0.005523	0.005417
0.001274	0.001187	0.00117	0.001284	0.001214	0.001313	0.001382	0.001327	0.001365
0.000273	0.000365	0.000387	0.000381	0.000387	0.000376	0.000389	0.000377	0.000388
0.000218	0.000183	0.000189	0.000133	0.000153	0.000142	0.000139	0.000137	0.000141
0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
0.352723	0.342806	0.346755	0.346959	0.347598	0.347336	0.347332	0.346789	0.345311

1994	1995	1996	1997	1998	1999	2000	2001	2002
1410840	1384313	1389028	1452817	1428844	1478014	1721719	1663189	1443114
111744	157459	165534	157642	139575	181606	138331	168947	160279
2354784	2449263	2240971	2310056	2340000	2450495	2339676	2405597	1898858
324800	261000	290000	295800	295800	301600	358848	304575	285957
119346	150704	149205	172793	208880	164707	163448	181237	164000
-132	-138.6	-145.2	-141.9	-165	-178.2	-145.2	-151.8	-437
33515	32775	27908	29162	29782	30563	45176	58542.63	53478.5
1083	1073	1232	1361	1074	1678	725	4151	9348
691	1577	2211	3737	3550	3393	908	1540	1840
734	744	530	606	1361	1001	982	788	726
4357405	4438769	4266474	4423832	4448701	4612879	4769668	4788415	4017164

1994	1995	1996	1997	1998	1999	2000	2001	2002
0.32378	0.311869	0.325568	0.328407	0.321182	0.32041	0.360972	0.347336	0.359237
0.025645	0.035474	0.038799	0.035635	0.031374	0.039369	0.029002	0.035282	0.039899
0.54041	0.551789	0.525251	0.522184	0.525996	0.531229	0.490532	0.502379	0.472686
0.07454	0.0588	0.067972	0.066865	0.066491	0.065382	0.075235	0.063607	0.071184
0.027389	0.033952	0.034972	0.03906	0.046953	0.035706	0.034268	0.037849	0.040825
-3E-05	-3.1E-05	-3.4E-05	-3.2E-05	-3.7E-05	-3.9E-05	-3E-05	-3.2E-05	-0.00011
0.007692	0.007384	0.006541	0.006592	0.006695	0.006626	0.009472	0.012226	0.013313
0.000249	0.000242	0.000289	0.000308	0.000241	0.000364	0.000152	0.000867	0.002327
0.000159	0.000355	0.000518	0.000845	0.000798	0.000736	0.00019	0.000322	0.000458
0.000168	0.000168	0.000124	0.000137	0.000306	0.000217	0.000206	0.000165	0.000181
1	1	1	1	1	1	1	1	1

1994	1995	1996	1997	1998	1999	2000	2001	2002
0.016807	-0.03136	0.240781	-0.02249	0.012641	0.023505	0.093179	0.086803	0.062423
0.047288	-0.35962	-0.18952	-0.31455	0.013065	-0.0501	-0.09842	-0.26816	-0.25552
0.013927	-0.07385	-0.0309	-0.04729	0.005315	0.001868	0.020881	-0.01186	-0.02654

1994	1995	1996	1997	1998	1999	2000	2001	2002
0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
-0.16938	-0.16474	-0.11803	0.021748	-0.01174	-0.06867	-0.02178	0.01348	-0.08409
-0.00969	-0.00737	0.015985	0.085874	0.069131	0.040665	0.064111	0.08174	0.032956

1994	1995	1996	1997	1998	1999	2000	2001	2002
0.09	-0.24	0.00	-0.18	0.06	0.08	0.42	0.39	0.31
0.03	-0.14	0.14	-0.01	-0.01	-0.05	-0.02	0.01	-0.08
0.00	0.00	-0.12	0.00	0.00	0.00	0.00	0.00	0.00

1994	1995	1996	1997	1998	1999	2000	2001	2002
0.26	-0.10	0.00	-0.03	0.21	0.24	0.52	0.49	0.39
1.16	-0.42	-0.23	-0.56	-0.08	-0.08	-0.04	-0.08	-0.15
0.13	-0.06	-0.01	-0.02	0.12	0.12	0.28	0.25	0.22

1994	1995	1996	1997	1998	1999	2000	2001	2002
-0.32092	-0.56302	-0.61047	-0.7381	0.30604	0.23566	-0.02632	-0.55204	0.01837
-0.16938	-0.16474	-0.11803	0.02175	-0.01174	-0.06867	-0.02178	0.01348	-0.08409
-0.15433	-0.49974	-0.49306	-0.77704	-0.70374	-0.6252	0.20219	0.0563	-0.5645
0.38217	-0.31218	-0.15672	-0.19832	0.07242	-0.03802	-0.27339	-0.17896	-0.45657
0.17385	0.0029	-0.21109	-0.35183	-0.3402	-0.24072	-0.23612	0.00513	-0.22884
0.0895	-0.23516	-0.12524	-0.16906	0.079	0.16238	0.52612	0.50011	0.35819
0.39438	-0.24943	0.28956	-0.26204	-0.07731	-0.38766	-0.27082	-0.18388	0.04817
0	0	0	0	0	0	0	0	0
-0.01815	-0.29541	0	-0.41117	0	0	0.40123	0.30371	0.18027
0	0	0	0	0	0	0	0	0
0.01393	-0.07385	-0.0309	-0.04729	0.00532	0.00187	0.02088	-0.01186	-0.02654
0.01175	-0.00141	0.00542	0.00561	0.01558	0.01555	0.02991	0.0289	0.01861
0.00218	-0.07244	-0.03632	-0.0529	-0.01027	-0.01369	-0.00903	-0.04076	-0.04515

7.816	9.655	28.669	16.893	8.406	8.465	5.203	4.054	6.052
13.973	15.528	30.032	19.730	19.924	22.039	21.740	20.353	20.953
15.913	19.292	22.085	18.928	18.119	17.565	16.034	16.122	18.603

2003	2004
2799986	3029973
317860	349646
1992199	2191420
492940	542234
2459705	416666.7
10500	12000
70315	65000
15500	15500
4410	65000
1600	1600
8165015	6689040
11664308	9555771

2003	2004
0.342925	0.452976
0.03893	0.052271
0.243992	0.327614
0.060372	0.081063
0.301249	0.062291
0.001286	0.001794
0.008612	0.009717
0.001898	0.002317
0.00054	0.009717
0.000196	0.000239
1	1

2003	2004
0.240047	0.317083
0.027251	0.03659
0.170794	0.229329
0.042261	0.056744
0.210874	0.043604
0.0009	0.001256
0.006028	0.006802
0.001329	0.001622
0.000378	0.006802
0.000137	0.000167
0.7	0.7
0.344105	0.365336

2003	2004
1785212	2220992
307845	343187
1584409	2191407
285905	542234
228786	
-262.5	-300
63538.79	57244.2
3669	15500
4183	57244.2
739	1600
4264024	5429108

2003	2004
0.418668	0.40909
0.072196	0.063212
0.371576	0.40364
0.067051	0.099875
0.053655	0
-6.2E-05	-5.5E-05
0.014901	0.010544
0.00086	0.002855
0.000981	0.010544
0.000173	0.000295
1	1

2003	2004
0.05735	0.114597
-0.41524	0
-0.0008	0.068543

2003	2004
0.15	0.2
0	0
0.075	0.1

2003	2004
0.33	0.64
0.00	0.00
0.00	0.00

2003	2004
0.39	0.95
-0.22	0.00
0.26	0.66

2003	2004
n.a.	n.a.
n.a.	n.a.
-0.59458	n.a.
-0.28144	n.a.
0.36306	0.65637
0.10208	0.1642
0	0
n.a.	n.a.
n.a.	n.a.
-0.0008	0.06854
0.02482	0.03431
-0.02561	0.03423

6.757	10.194	12.806	12.511	8.977	9.069	10.020	12.108	13.278
21.832	22.121	22.805	23.253	21.553	21.302	21.613	22.030	23.056
21.438	23.815	22.753	26.453	27.765	28.475	28.101	28.199	31.213

11.955	11.402	8.918	6.265	8.079	8.232	6.237	6.924	7.545
22.363	21.934	22.063	21.139	19.396	21.338	20.941	21.500	20.572
31.153	28.381	27.129	26.840	25.164	23.880	24.911	27.087	30.377

10.071	n.a.
21.068	n.a.
30.181	n.a.

	CASSAVA			
	Domestic price per MT	Border price per MT	NRA = DP-BP / BP	Domestic price per MT
1990		27.92		
1991	112.78	30.42	2.71	490.37
1992	112.66	181.82	-0.38	410.95
1993	104.51	11.88	7.80	470.27
1994	133.67	13.9	8.62	586.83
1995	139.25	17.81	6.82	433.7
1996	144.29	150	-0.04	467.84
1997	105.48			304.47
1998	182.86			1,653.99
1999	83.55	0		3,660.22
2000	97.08	400	-0.76	3,675.67
2001	99.57	0		2,905.37
2002	96.31	285.71	-0.66	4,027.10
2003	112.22	250	-0.55	4,718.43
2004		166.67		
2005				

Source: Authors' spreadsheet using methodology from Anderson et al. (2006)

	CLOVES(X)				COCOA(X)
	Domestic price per MT	Border price per MT	NRA = DP-BP / BP	Domestic price per MT	Border price per MT
1960	n.a.	150421	n.a.	n.a.	104725
1961	n.a.	148765	n.a.	n.a.	87654
1962	n.a.	137246	n.a.	n.a.	76819
1963	n.a.	173154	n.a.	n.a.	100967
1964	n.a.	150603	n.a.	n.a.	88430
1965	n.a.	157318	n.a.	n.a.	68158
1966	68970	161975	-0.57	86000	97743
1967	68970	150975	-0.54	85000	106480
1968	68970	168881	-0.59	80000	126932
1969	156750	170328	-0.08	86000	200516
1970	156750	145460	0.08	90000	125924
1971	172425	145635	0.18	91000	97381
1972	175560	139689	0.26	90000	104057
1973	175560	562388	-0.69	99000	169582
1974	200640	758658	-0.74	116000	299925
1975	200640	757644	-0.74	116000	213241
1976	200640	1240935	-0.84	116000	529569
1977	213180	1182979	-0.82	127000	571607
1978	213180	1453460	-0.85	129000	843441
1979	241395	1108375	-0.78	177000	570724
1980	247665	1606091	-0.85	200000	473823
1981	269610	2914037	-0.91	250000	602233

1982	272745	5015044	-0.95	300000	1188911
1983	272745	6179589	-0.96	350000	1609169
1984	272745	4045139	-0.93	400000	1476648
1985	272745	1293496	-0.79	415000	1132368
1986	329175	1621141	-0.80	430000	1014844
1987	376200	3342357	-0.89	450000	2140639
1988	376200	4011544	-0.91	635000	1877088
1989	376200	2765576	-0.86	882500	1386263
1990	376200	2683567	-0.86	882500	1396938
1991	564300	3085379	-0.82	1640000	1757273
1992	480282	1522094	-0.68	820000	1645210
1993	564300	1031103	-0.45	820000	1707386
1994	1128600	1661955	-0.32	4034400	3436898
1995	1159950	2654454	-0.56	4920000	4905797
1996	1191300	3058339	-0.61	3747400	4750087
1997	971850	3710817	-0.74	4100000	6325465
1998	5643000	4320693	0.31	4000000	6062449
1999	14421000	11670720	0.24	3600000	4741319
2000	15596625	16018233	-0.03	3000000	3927326
2001	12002034	26792673	-0.55	4750000	4725747
2002	17250651	16939418	0.02	6000000	7780496
2003	n.a.	8758568	n.a.	5042171	7017052
2004	n.a.	18026024	n.a.	n.a.	9647829
2005	n.a.	23304336	n.a.	n.a.	10283786

	COFFEE(X)			PEPPER	
	Domestic price per MT	Border price per MT	NRA = DP-BP / BP	Domestic price per MT	Border price per MT
1960	n.a.	100330	n.a.	n.a.	235297
1961	n.a.	80232	n.a.	n.a.	n.a.
1962	n.a.	81095	n.a.	n.a.	n.a.
1963	n.a.	117029	n.a.	n.a.	163205
1964	n.a.	142531	n.a.	n.a.	123877
1965	n.a.	131515	n.a.	n.a.	151245
1966	101717	143222	-0.29	66000	174116
1967	107855	134129	-0.20	66000	127568
1968	106304	134621	-0.21	66000	112577
1969	105006	166356	-0.37	150000	129371
1970	148500	174977	-0.15	150000	164883
1971	148500	172612	-0.14	165000	202720
1972	148500	162121	-0.08	168000	158425
1973	148500	166824	-0.11	168000	157914
1974	181500	251558	-0.28	192000	202422
1975	181500	232976	-0.22	192000	251184
1976	181500	736406	-0.75	192000	361572
1977	198000	752179	-0.74	204000	312000
1978	198000	814498	-0.76	204000	470421
1979	203500	639430	-0.68	231000	349896
1980	236500	596895	-0.60	237000	291992
1981	275000	657035	-0.58	258000	418482

1982	286000	1673042	-0.83	261000	604402
1983	308000	2098113	-0.85	261000	572561
1984	363000	1892938	-0.81	261000	750224
1985	434500	1345314	-0.68	261000	973906
1986	660000	1610094	-0.59	315000	1366291
1987	880000	2436317	-0.64	360000	3124878
1988	1045000	2492148	-0.58	540000	3162364
1989	1045000	1868483	-0.44	540000	2484781
1990	1045000	1316572	-0.21	540000	1855781
1991	1100000	1597256	-0.31	1350000	1845765
1992	550000	1423147	-0.61	1350000	1603680
1993	550000	1798353	-0.69	1350000	1728066
1994	9020000	6525960	0.38	3000000	3547475
1995	6600000	9595592	-0.31	3240000	6476579
1996	5027000	5961247	-0.16	3420000	6746364
1997	5500000	6860619	-0.20	2700000	12109525
1998	7150000	6667161	0.07	3639600	12285279
1999	6050000	6289091	-0.04	6000000	16008359
2000	2915000	4011768	-0.27	11850000	9857013
2001	2189000	2666142	-0.18	7298400	6909414
2002	1590600	2926960	-0.46	2817600	6469838
2003	1336679	3297053	-0.59458366	n.a.	6627623
2004	n.a.	4989552	n.a.	n.a.	9375642
2005	n.a.	7503762	n.a.	n.a.	8966057

Reported Domestic pr

	VANILLA (X)				
	Domestic price per MT	Border price per MT	EUV FAOSTAT US$/MT	EUV PROFESSIONAL SOURCE US$/MT	NRA calculated
1960	180000	3209497	0	25000	-0.66
1961	180000	2839191	13055	22000	-0.62
1962	180000	2756006	13680	17000	-0.61
1963	180000	3199902	14545	15000	-0.66
1964	168000	2156296	10209	14000	-0.53
1965	168000	2254512	10041	13000	-0.55
1966	222000	2305064	10144	11000	-0.42
1967	156000	2178811	10170	11000	-0.57
1968	180000	2259936	10665	11000	-0.52
1969	204000	2845615	10651	10000	-0.57
1970	228000	2400193	10674	10000	-0.43
1971	264000	2424660	11143	10000	-0.35
1972	264000	2395090	12291	12000	-0.34
1973	264000	2506325	13888	12000	-0.37
1974	288000	3183356	13761	12000	-0.46
1975	300000	3325362	16145	16000	-0.46
1976	300000	5613694	18020	16000	-0.68
1977	336000	3773163	20795	16000	-0.47
1978	330000	7843391	26308	26000	-0.75
1979	600000	6985478	33490	26000	-0.49

1980	720000	10009540	45700	26000	-0.57
1981	840000	15238655	43661	44000	-0.67
1982	840000	37361495	45483	44000	-0.87
1983	1200000	52958635	57940	44000	-0.86
1984	1200000	47743932	64365	64000	-0.85
1985	1200000	41899928	69320	64000	-0.83
1986	1320000	40633900	68814	64000	-0.81
1987	1440000	91508513	70963	70000	-0.91
1988	2040000	94691028	66387	70000	-0.87
1989	2400000	95288443	70951	70000	-0.85
1990	2400000	91092896	68707	70000	-0.84
1991	2400000	128250442	72326	70000	-0.89
1992	6000000	131747010	73157	70000	-0.73
1993	6000000	131573025	71159	73000	-0.73
1994	10140000	206303839	69615	73000	-0.71
1995	12000000	229064975	55581	73000	-0.69
1996	6180000	72750953	18520	16000	-0.49
1997	12600000	69084889	14691	16000	0.09
1998	12600000	79224533	18199	16000	-0.05
1999	30000000	251351000	16972	50000	-0.29
2000	79500000	522877741	32493	100000	-0.09
2001	83793600	474426453	90793	200000	0.06
2002	83793600	771524444	..	350000	-0.35
2003	n.a.	975032432	..	350000	n.a.
2004	n.a.	1190502400	..	475000	n.a.
2005	n.a.	n.a.	0	n.a.	n.a.

	Paddy RICE		SUGAR CANE		SWEETPOTATOES
	Domestic price per MT	NRA: Primary	Domestic price per MT	NRA: Primary	Domestic price per MT
1960	14850	n.a.	2220	0.00	4800
1961	14850	-0.27	2220	-0.01	4800
1962	16200	-0.15	2220	0.02	4800
1963	16200	-0.21	2220	0.00	4800
1964	16200	-0.25	2231	0.00	4800
1965	16200	-0.25	2231	0.00	4800
1966	17806.5	-0.24	2231	-0.01	4800
1967	17982	-0.05	2231	-0.02	4800
1968	18171	-0.40	2231	-0.02	4800
1969	18117	-0.21	2242	-0.02	4800
1970	18117	0.05	2242	-0.01	6000
1971	20250	0.03	2264	-0.02	15600
1972	20250	-0.01	2545	-0.01	24000
1973	20925	-0.51	2576	0.01	25200
1974	35100	-0.64	3748	-0.02	25200
1975	38475	-0.32	3721	-0.04	25200
1976	40500	-0.31	3378	-0.04	26160
1977	41850	0.13	4121	0.00	28200

1978	47250	-0.43	5054	-0.03	32760
1979	49275	-0.07	5809	-0.01	36000
1980	57375	-0.21	7077	-0.01	36000
1981	63450	-0.51	8578	0.00	42000
1982	81000	-0.55	10976	-0.03	48000
1983	87750	-0.54	13356	-0.01	54000
1984	97875	-0.30	13320	0.00	60000
1985	112050	0.16	13320	0.01	72000
1986	135000	-0.03	15540	0.00	60000
1987	172125	-0.23	17871	-0.01	72000
1988	243000	-0.01	22200	-0.01	72000
1989	337500	-0.02	22755	-0.01	72000
1990	283500	-0.03	23033	-0.01	312000
1991	297000	-0.06	25974	-0.01	246000
1992	472500	0.00	27750	-0.01	320400
1993	634500	-0.01	33300	0.01	416400
1994	874800	0.01	49950	0.01	555600
1995	978750	-0.04	83250	-0.01	656400
1996	1026000	-0.02	105450	0.01	901200
1997	1158300	-0.03	113775	-0.01	1050000
1998	1444500	0.01	135420	0.00	1405200
1999	1485000	0.03	126630	-0.02	1068000
2000	1741500	0.09	135155	-0.02	760800
2001	1455300	0.09	138601	-0.01	630000
2002	1443150	0.06	117401	0.00	786000
2003	1366200	0.06	118316	0.00	n.a.
2004	3240000	0.11	134311	0.01	n.a.
2005	2227500	0.00	100710	-0.01	n.a.

	MAIZE*				
	Trade status	Domestic price per MT	Border price per MT(M)	Border price per MT(X)	NRA(M) = DP-BP / BP
1960	n.a.	n.a.	15914	15914	n.a.
1961	n.a.	n.a.	12478	12478	n.a.
1962	n.a.	n.a.	12944	12944	n.a.
1963	n.a.	n.a.	15043	15043	n.a.
1964	n.a.	n.a.	14733	14733	n.a.
1965	n.a.	n.a.	15437	15437	n.a.
1966	X	10000	16873	16873	-0.41
1967	X	10000	13364	13364	-0.25
1968	H	10000	13006	13006	-0.23
1969	X	10000	18000	18000	-0.44
1970	H	10000	16415	16415	-0.39
1971	X	18000	15884	15884	0.13
1972	H	15000	13641	13641	0.10
1973	H	24000	22108	22108	0.09
1974	H	20000	38171	38171	-0.48
1975	H	20000	30793	30793	-0.35

1976	H	40000	43769	43769	-0.09
1977	X	60000	21615	36746	1.78
1978	X	80000	37528	63798	1.13
1979	H	100000	30115	51195	2.32
1980	H	110000	34305	58319	2.21
1981	H	130000	57065	97010	1.28
1982	H	140000	112229	190789	0.25
1983	H	160000	155384	264154	0.03
1984	X	170000	126008	214213	0.35
1985	H	225000	84773	144114	1.65
1986	H	240000	64658	109919	2.71
1987	X	240000	122020	207435	0.97
1988	X	240000	190595	324012	0.26
1989	X	245000	187183	318210	0.31
1990	X	432000	181140	307938	1.38
1991	X	620000	238057	404697	1.60
1992	M	535000	469354	398951	0.14
1993	X	552000	235956	401126	1.34
1994	X	665000	398408	677293	0.67
1995	X	762000	636167	1081484	0.20
1996	H	846000	814163	1384076	0.04
1997	X	689000	688300	1170110	0.00
1998	H	540000	554950	943415	-0.03
1999	H	620000	566901	963732	0.09
2000	M	973000	694388	983717	0.40
2001	M	916000	702609	995362	0.30
2002	M	925000	783720	1110270	0.18
2003	n.a.	n.a.	761366	1078602	n.a.
2004	n.a.	n.a.	1046369	1778828	n.a.
2005	n.a.	n.a.	988214	1679964	n.a.

			REFINED SUGAR		
	TRADE status	Domestic price per MT	Border price per MT (M)	Border price per MT(X)	NRA (M) = DP-BP / BP
1960	X	31080	44160	30492	
1961	X	31080	54819	37851	
1962	X	31080	34725	23977	
1963	X	31080	42361	29249	
1964	X	26773	38621	26667	
1965	X	26773	40206	27761	
1966	X	26773	46341	31998	
1967	X	26773	46844	32345	
1968	X	26773	47584	32856	
1969	X	31391	61006	42123	
1970	X	31391	49330	34061	
1971	X	27173	52270	36091	
1972	X	30543	50215	34672	
1973	X	30916	39922	27565	
1974	X	44982	81677	56396	

1975	X	44649	105476	72829	
1976	X	47288	138348	95525	
1977	X	57700	84322	58222	
1978	X	70754	157509	108756	
1979	X	81321	133452	92145	
1980	X	99083	160423	110768	
1981	X	145827	219085	151272	
1982	X	186587	493609	340824	
1983	X	287706	532448	367641	
1984	X	286940	404713	279444	
1985	X	286940	318595	219982	-0.10
1986	M	334764	364343	251569	-0.08
1987	X	384978	710485	490571	-0.46
1988	X	478234	898454	620359	
1989	X	490190	846449	584451	
1990	X	496168	893957	617253	
1991	X	559534	1108776	765581	
1992	X	597793	1128428	779150	-0.47
1993	X	717351	866091	598013	
1994	X	1458200	1508524	1041596	-0.03
1995	M	2014286	2693834	1860021	-0.25
1996	X	2249833	2512548	1734848	-0.10
1997	M	2550857	3472771	2397857	-0.27
1998	M	2551500	2770722	1913110	-0.08
1999	M	2129500	3521832	2431732	-0.40
2000	M	2016833	2797467	1931577	-0.28
2001	M	2479800	3054474	2109034	-0.19
2002	M	3318000	3163841	2184549	0.05
2003	M	3343850	3030751	2092654	0.10
2004	M	3795903	3254686	2247275	0.17
2005	M	2846277	3531657	2438516	-0.19

(1)Calculated

Official exchange currency sold oave "n.a." if no pe (copy from revant exchange relevant exchange rat

1955	246.853	n.a.	n.a.	n.a.	246.8530002	246.8530002
1956	246.853	n.a.	n.a.	n.a.	246.8530002	246.8530002
1957	246.853	n.a.	n.a.	n.a.	246.8530002	246.8530002
1958	246.853	n.a.	n.a.	n.a.	246.8530002	246.8530002
1959	246.853	n.a.	n.a.	n.a.	246.8530002	246.8530002
1960	260.119073	0.05	274.0980749	274.0980749	274.0980749	260.8180231
1961	262.889244	0.05	279.967246	279.967246	279.967246	263.7431442
1962	250.104357	0.05	253.3985379	253.3985379	253.3985379	250.269066
1963	264.863734	0.05	284.1885558	284.1885558	284.1885558	265.8299752
1964	257.944619	0.05	269.5346067	269.5346067	269.5346067	258.5241182
1965	268.027145	0.1	291.0175295	291.0175295	291.0175295	270.3261831

1966	270.079869	0.1	295.4921982	295.4921982	295.4921982	272.621102
1967	260.119073	0.1	274.0980749	274.0980749	274.0980749	261.5169732
1968	258.484817	0.05	270.6647299	270.6647299	270.6647299	259.0938127
1969	304.823797	0.1	357.7744098	357.7744098	357.7744098	310.1188585
1970	279.949093	0	282.2067469	282.2067469	282.2067469	279.949093
1971	273.61334	0	270.3689134	270.3689134	270.3689134	273.6133405
1972	246.360378	0	240.8214841	240.8214841	240.8214841	246.3603781
1973	224.68582	0	226.4978023	226.4978023	226.4978023	224.6858199
1974	276.84901		301.4999587	301.4999587	301.4999587	276.8490102
1975	246.494241		268.4423664	268.4423664	268.4423664	246.4942409
1976	322.127933	0.2	434.2606668	434.2606668	434.2606668	344.55448
1977	232.878887	0	220.7458971	220.7458971	220.7458971	232.8788871
1978	306.642579	0.2	416.6966012	416.6966012	416.6966012	328.6533838
1979	241.289241	0.2	273.6943863	273.6943863	273.6943863	247.7702702
1980	247.956741	0.2	291.0020312	291.0020312	291.0020312	256.565799
1981	363.05901	0.2	485.0831428	485.0831428	485.0831428	387.4638363
1982	665.792106	0.2	1267.468432	1267.468432	1267.468432	786.1273711
1983	773.172793	0.2	1388.772971	1388.772971	1388.772971	896.2928288
1984	771.144015	0.2	1031.250892	1031.250892	1031.250892	823.1653905
1985	720.709272	0.1	784.0596173	784.0596173	784.0596173	727.0443068
1986	716.04204	0.05	758.073708	758.073708	758.073708	718.1436236
1987	1386.02124	0.1	1796.699339	1796.699339	1796.699339	1427.089053
1988	1636.32434	0.1	1902.881578	1902.881578	1902.881578	1662.980066
1989	1653.14406	0	1704.391528	1704.391528	1704.391528	1653.144063
1990	1600.38049	0	1714.167548	1714.167548	1714.167548	1600.380495
1991	2110.96669		2322.129577	2322.129577	2322.129577	2110.966694
1992	2143.86908		2358.323232	2358.323232	2358.323232	2143.869079
1993	2201.1655		2421.351096	2421.351096	2421.351096	2201.165503
1994	3527.94208		3880.846952	3880.846952	3880.846952	3527.942084
1995	4906.17992		5396.951802	5396.951802	5396.951802	4906.17992
1996	4585.00178	0.1	5176.296141	5176.296141	5176.296141	4644.131217
1997	5582.07882	0.1	6120.664459	6120.664459	6120.664459	5635.937386
1998	5441.39833		5441.398333	5441.398333	5441.398333	5441.398333
1999	6283.775		6283.775	6283.775	6283.775	6283.775
2000	7783.71908		7783.719076	7783.719076	7783.719076	7783.719076
2001	7577.85489		7577.85489	7577.85489	7577.85489	7577.85489
2002	7857.87596		7857.875959	7857.875959	7857.875959	7857.875959
2003	7121.40523		7121.405231	7121.405231	7121.405231	7121.405231
2004	9344.5		9344.5	9344.5	9344.5	9344.5
2005	10015.1294		10015.12939	10015.12939	10015.12939	10015.12939

CLOVES				COCOA		
	Border price per MT	NRA = DP-BP / BP	Domestic price per MT	Border price per MT	NRA = DP-BP / BP	Domestic price per MT
	1,955.97			949.81		
	1,750.00	-0.720	893.56	932.08	-0.041	544.85
	846.08	-0.514	439.92	919.41	-0.522	268.25
	558.98	-0.159	428.47	882.35	-0.514	261.26
	613.31	-0.043	4,384.26	1,376.76	2.184	2,673.33
	646.82	-0.329	2,306.81	1,158.54	0.991	1,406.59
	774.42	-0.396	1,845.44	1,126.76	0.638	1,125.27
	772.73	-0.606	1,610.72	1,166.67	0.381	982.15
	925.48	0.787	1,470.21	1,588.24	-0.074	1,194.55
	2,190.54	0.671	1,145.81	1,192.31	-0.039	875.27
	3,114.92	0.180	886.59	1,305.56	-0.321	391.58
	5,154.47	-0.436	1,441.91	1,057.69	0.363	302.04
	2,933.33	0.373	1,756.45	1,532.14	0.146	211.65
	1,804.86	1.614	1,628.70	1,714.29	-0.050	196.26
	1,157.27			757.51		

NRA = DP-BP / BP
n.a.
n.a.
n.a.
n.a.
n.a.
n.a.
-0.12
-0.20
-0.37
-0.57
-0.29
-0.07
-0.14
-0.42
-0.61
-0.46
-0.78
-0.78
-0.85
-0.69
-0.58
-0.58

-0.75
-0.78
-0.73
-0.63
-0.58
-0.79
-0.66
-0.36
-0.37
-0.07
-0.50
-0.52
0.17
0.00
-0.21
-0.35
-0.34
-0.24
-0.24
0.01
-0.23
-0.28
n.a.
n.a.

NRA(X) = DP-BP / BP
n.a.
n.a.
n.a.
n.a.
n.a.
n.a.
-0.62
-0.48
-0.41
0.16
-0.09
-0.19
0.06
0.06
-0.05
-0.24
-0.47
-0.35
-0.57
-0.34
-0.19
-0.38

-0.57
-0.54
-0.65
-0.73
-0.77
-0.88
-0.83
-0.78
-0.71
-0.27
-0.16
-0.22
-0.15
-0.50
-0.49
-0.78
-0.70
-0.63
0.20
0.06
-0.56
n.a.
n.a.
n.a.

ices here are the wholesale price, border prices are plain undistorted international price, not corrected for transportation cc

	MILLED RICE		
	Domestic price per MT	Border price per MT	NRA = DP-BP / BP
1960	14850	43016	-0.27
1961	14850	43279	-0.27
1962	16200	40293	-0.15
1963	16200	43319	-0.21
1964	16200	45681	-0.25
1965	16200	56449	-0.25
1966	17806.5	49511	-0.24
1967	17982	40201	-0.05
1968	18171	64225	-0.40
1969	18117	48338	0.00
1970	18117	36620	0.00
1971	20250	41474	0.00
1972	20250	43081	0.00
1973	20925	90337	-0.51
1974	35100	204453	-0.64
1975	38475	120179	-0.32
1976	40500	124935	-0.31
1977	41850	78210	0.13
1978	47250	176109	-0.43
1979	49275	111594	-0.07

1980	57375	153739	-0.21
1981	63450	273757	-0.51
1982	81000	382498	-0.55
1983	87750	401120	-0.54
1984	97875	294716	-0.30
1985	112050	203414	0.16
1986	135000	295243	-0.03
1987	172125	472920	-0.23
1988	243000	676327	-0.11
1989	337500	686598	-0.16
1990	283500	613670	-0.21
1991	297000	888716	-0.43
1992	472500	825451	-0.02
1993	634500	743846	-0.11
1994	874800	1355173	0.10
1995	978750	2259535	-0.26
1996	1026000	2274976	-0.14
1997	1158300	2439100	-0.19
1998	1444500	2262842	0.09
1999	1485000	2134058	0.19
2000	1741500	1808492	0.65
2001	1455300	1543374	0.61
2002	1443150	1725748	0.43
2003	1366200	1626748	0.44
2004	3240000	3040886	0.82
2005	2227500	3919570	-0.03

CASSAVA	VANILLA(X)		
Domestic price per MT	Domestic price per MT	Border price per MT	NRA = $\frac{DP-BP}{BP}$
3793	1575000	6900000	-0.77
3806	1575000	6900000	-0.77
3818	1575000	6900000	-0.77
3831	1575000	6900000	-0.77
3844	1470000	6440000	-0.77
3857	1470000	6440000	-0.77
3870	1417500	6210000	-0.77
3870	1260000	5520000	-0.77
3870	1365000	5980000	-0.77
3870	1155000	5060000	-0.77
4193	1144500	5014000	-0.77
4386	1077300	4719600	-0.77
4386	1062600	4655200	-0.77
5160	1062600	4655200	-0.77
7740	1159200	5078400	-0.77
7740	1207500	5290000	-0.77
7740	1216950	5331400	-0.77
7740	1352400	5924800	-0.77

7740	1593900	6982800	-0.77
7740	2415000	10580000	-0.77
9030	2898000	12696000	-0.77
9030	3381000	14812000	-0.77
18060	3381000	14812000	-0.77
36120	4933950	21615400	-0.77
64500	4830000	21160000	-0.77
64500	4830000	21160000	-0.77
70950	5313000	23276000	-0.77
70950	5796000	25392000	-0.77
90300	8211000	35972000	-0.77
103200	9660000	42320000	-0.77
208980	9660000	42320000	-0.77
267030	2100000	9200000	-0.77
270900	5250000	23000000	-0.77
258000	5250000	23000000	-0.77
528900	8872500	38870000	-0.77
766260	10500000	46000000	-0.77
755940	5407500	23690000	-0.77
692730	11025000	48300000	-0.77
1283550	11025000	48300000	-0.77
677250	26250000	115000000	-0.77
847530	69562500	304750000	-0.77
846240	78296400	343012800	-0.77
848820	88130700	386096400	-0.77
580500	n.a.	n.a.	n.a.
322500	n.a.	n.a.	n.a.
387000	n.a.	n.a.	n.a.

NRA(X) = $\frac{DP-BP}{BP}$	NRA calculated
n.a.	n.a.
n.a.	n.a.
n.a.	0
n.a.	0
n.a.	0
n.a.	0
-0.41	-0.41
-0.25	-0.25
-0.23	0.00
-0.44	-0.44
-0.39	0.00
0.13	0.13
0.10	0.00
0.09	0.00
-0.48	0.00
-0.35	0.00

-0.09	0.00
0.63	0.63
0.25	0.25
0.95	0.00
0.89	0.00
0.34	0.00
-0.27	0.00
-0.39	0.00
-0.21	-0.21
0.56	0.00
1.18	0.00
0.16	0.16
-0.26	-0.26
-0.23	-0.23
0.40	0.40
0.53	0.53
0.34	0.14
0.38	0.38
-0.02	-0.02
-0.30	-0.30
-0.39	0.00
-0.41	-0.41
-0.43	0.00
-0.36	0.00
-0.01	0.40
-0.08	0.30
-0.17	0.18
n.a.	0.00
n.a.	0.00
n.a.	0.00

NRA (X)= $\frac{DP-BP}{BP}$	NRA(1)
0.02	0.02
-0.18	-0.18
0.30	0.30
0.06	0.06
0.00	0.00
-0.04	-0.04
-0.16	-0.16
-0.17	-0.17
-0.19	-0.19
-0.25	-0.25
-0.08	-0.08
-0.25	-0.25
-0.12	-0.12
0.12	0.12
-0.20	-0.20

-0.39	-0.39
-0.50	-0.50
-0.01	-0.01
-0.35	-0.35
-0.12	-0.12
-0.11	-0.11
-0.04	-0.04
-0.45	-0.45
-0.22	-0.22
0.03	0.03
0.30	0.30
0.33	-0.08
-0.22	-0.22
-0.23	-0.23
-0.16	-0.16
-0.20	-0.20
-0.27	-0.27
-0.23	-0.23
0.20	0.20
0.40	0.40
0.08	-0.25
0.30	0.30
	-0.27
	-0.08
	-0.40
	-0.28
	-0.19
	0.05
	0.10
	0.17
	-0.19

				Official
‹elevant exchange rate	elevant exchange rich would prevail in an undistorted market (E)			
246.8530002	246.8530002	246.8530002		rate
246.8530002	246.8530002	246.8530002	1960	260.1
246.8530002	246.8530002	246.8530002	1961	262.9
246.8530002	246.8530002	246.8530002	1962	250.1
246.8530002	246.8530002	246.8530002	1963	264.9
274.0980749	260.8180231	267.458049	1964	257.9
279.967246	263.7431442	271.8551951	1965	268.0
253.3985379	250.269066	251.8338019	1966	270.1
284.1885558	265.8299752	275.0092655	1967	260.1
269.5346067	258.5241182	264.0293624	1968	258.5
291.0175295	270.3261831	280.6718563	1969	304.8

295.4921982	272.621102	284.0566501
274.0980749	261.5169732	267.8075241
270.6647299	259.0938127	264.8792713
357.7744098	310.1188585	333.9466341
282.2067469	279.949093	281.07792
270.3689134	273.6133405	271.9911269
240.8214841	246.3603781	243.5909311
226.4978023	224.6858199	225.5918111
301.4999587	276.8490102	289.1744844
268.4423664	246.4942409	257.4683037
434.2606668	344.55448	389.4075734
220.7458971	232.8788871	226.8123921
416.6966012	328.6533838	372.6749925
273.6943863	247.7702702	260.7323283
291.0020312	256.565799	273.7839151
485.0831428	387.4638363	436.2734895
1267.468432	786.1273711	1026.797902
1388.772971	896.2928288	1142.5329
1031.250892	823.1653905	927.2081411
784.0596173	727.0443068	755.551962
758.073708	718.1436236	738.1086658
1796.699339	1427.089053	1611.894196
1902.881578	1662.980066	1782.930822
1704.391528	1653.144063	1678.767795
1714.167548	1600.380495	1657.274021
2322.129577	2110.966694	2216.548136
2358.323232	2143.869079	2251.096156
2421.351096	2201.165503	2311.258299
3880.846952	3527.942084	3704.394518
5396.951802	4906.17992	5151.565861
5176.296141	4644.131217	4910.213679
6120.664459	5635.937386	5878.300923
5441.398333	5441.398333	5441.398333
6283.775	6283.775	6283.775
7783.719076	7783.719076	7783.719076
7577.85489	7577.85489	7577.85489
7857.875959	7857.875959	7857.875959
7121.405231	7121.405231	7121.405231
9344.5	9344.5	9344.5
10015.12939	10015.12939	10015.12939

1970	279.9
1971	273.6
1972	246.4
1973	224.7
1974	276.8
1975	246.5
1976	322.1
1977	232.9
1978	306.6
1979	241.3
1980	248.0
1981	363.1
1982	665.8
1983	773.2
1984	771.1
1985	720.7
1986	716.0
1987	1386.0
1988	1636.3
1989	1653.1
1990	1600.4
1991	2111.0
1992	2143.9
1993	2201.2
1994	3527.9
1995	4906.2
1996	4585.0
1997	5582.1
1998	5441.4
1999	6283.8
2000	7783.7
2001	7577.9
2002	7857.9
2003	7121.4
2004	9344.5
2005	10015.1

COFFEE			MAIZE			PEPPER	
Border price per MT	NRA = DP-BP / BP	Domestic price per MT	Border price per MT	NRA = DP-BP / BP	Domestic price per MT	Border price per MT	NRA = DP-BP / BP
812.21			154.7			1,721.31	
694.47	-0.215	337.81	137.86	1.450	817.28	1,331.52	-0.386
639.67	-0.581	287.02	100.56	1.854	804.74	1,143.59	-0.296
795.56	-0.672	288.43	96.4	1.992	783.79	1,190.00	-0.341
2,500.41	0.069	216.8	120.97	0.792	815.04	1,661.84	-0.510
2,309.22	-0.391	178.64	140.93	0.268	632.97	2,000.00	-0.684
1,430.46	-0.213	208.31	155.8	0.337	701.75	2,152.87	-0.674
1,267.95	-0.225	135.34	123.92	0.092	441.97	3,191.01	-0.861
1,328.93	-0.101	99.24	0		557.39	3,352.94	-0.834
1,169.85	-0.252	98.67	117.65	-0.161	795.7	3,935.48	-0.798
804.88	-0.513	143.78	98.9	0.454	1,459.18	2,423.73	-0.398
721.48	-0.581	139.03	100.65	0.381	923.12	1,777.78	-0.481
491.09	-0.569	135.39	99.21	0.365	343.68	1,613.64	-0.787
619.26	-0.683	164.42	185.19	-0.112	383	1,767.44	-0.783
300.76			136.36			766.13	

›sts etc…Trade status are in parentheses, M for importable commodities, X for exportables and NT for non tradable. Ma

Secondary/parallel market rate	Retention rate [a]	Estimated equilibrium exchange rate using
274.1	0.05	267.5
280.0	0.05	271.9
253.4	0.05	251.8
284.2	0.05	275.0
269.5	0.05	264.0
291.0	0.1	280.7
295.5	0.1	284.1
274.1	0.1	267.8
270.7	0.05	264.9
357.8	0.1	333.9

282.2	0	281.1
270.4	0	272.0
240.8	0	243.6
226.5	0	225.6
301.5	0	289.2
268.4	0	257.5
434.3	0.2	389.4
220.7	0	226.8
416.7	0.2	372.7
273.7	0.2	260.7
291.0	0.2	273.8
485.1	0.2	436.3
1267.5	0.2	1026.8
1388.8	0.2	1142.5
1031.3	0.2	927.2
784.1	0.1	755.6
758.1	0.05	738.1
1796.7	0.1	1611.9
1902.9	0.1	1782.9
1704.4	0	1678.8
1714.2	0	1657.3
2322.1	0	2216.5
2358.3	0	2251.1
2421.4	0	2311.3
3880.8	0	3704.4
5397.0	0	5151.6
5176.3	0.1	4910.2
6120.7	0.1	5878.3
5441.4	0	5441.4
6283.8	0	6283.8
7783.7	0	7783.7
7577.9	0	7577.9
7857.9	0	7857.9
7121.4	0	7121.4
9344.5	0	9344.5
10015.1	0	10015.1

RICE			SUGAR				SWEETPOTAT	
Domestic price per MT	Border price per MT	NRA = DP-BP / BP	Domestic price per MT	Border price per MT		NRA = DP-BP / BP	Domestic price per MT	Border price per MT
	313.91			0	0			
119.87	214.77	-0.442	12.75	0	0		111.69	
187.77	186.41	0.007	13.41	0	0		143.24	
245.59	0		15.68	0	0		181.32	
211.26	253.56	-0.167	14.67	0	0		150.95	
169.96	185.53	-0.084	17.58	0	0		128.23	1,000.00
179.26	268.01	-0.331	23.39	0	0		184.92	
168.54	195.18	-0.136	137.5	0	31.24	3.401	171.88	
196.64	185.83	0.058	137.83	0	0		215.2	
175.05	162.2	0.079	127.31	0	0		141.63	
190.62	130.48	0.461	62.8	0	17.44	2.601	93.68	
163.62	133.34	0.227	66.33	0	21.71	2.055	79.68	0
156.47	111.62	0.402	53.72	0	11.4	3.712	95.87	0
175.04	126.79	0.381	54.16	0	0		103.51	1,000.00
	89.51			0	6.22			142.86

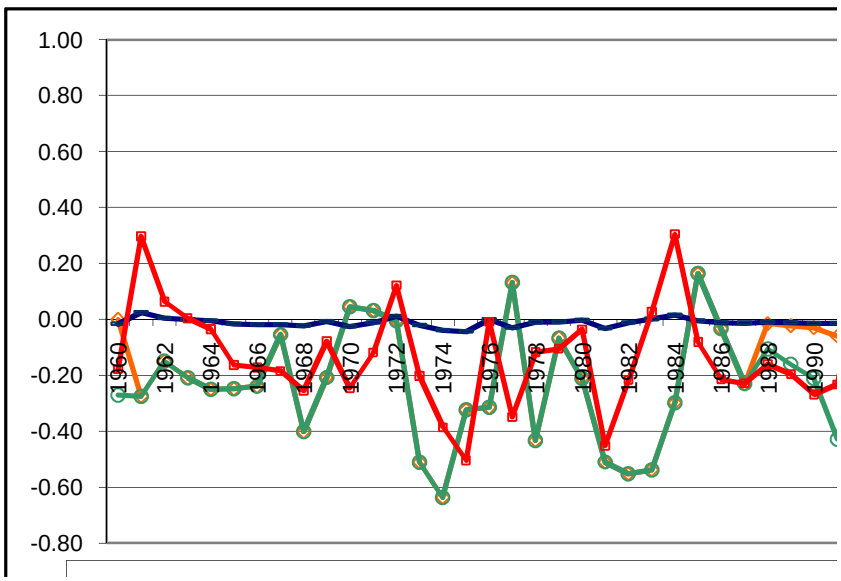
ıize, Milled Rice and Processed Sugar change trade status over the years and the share of exports and imports are report

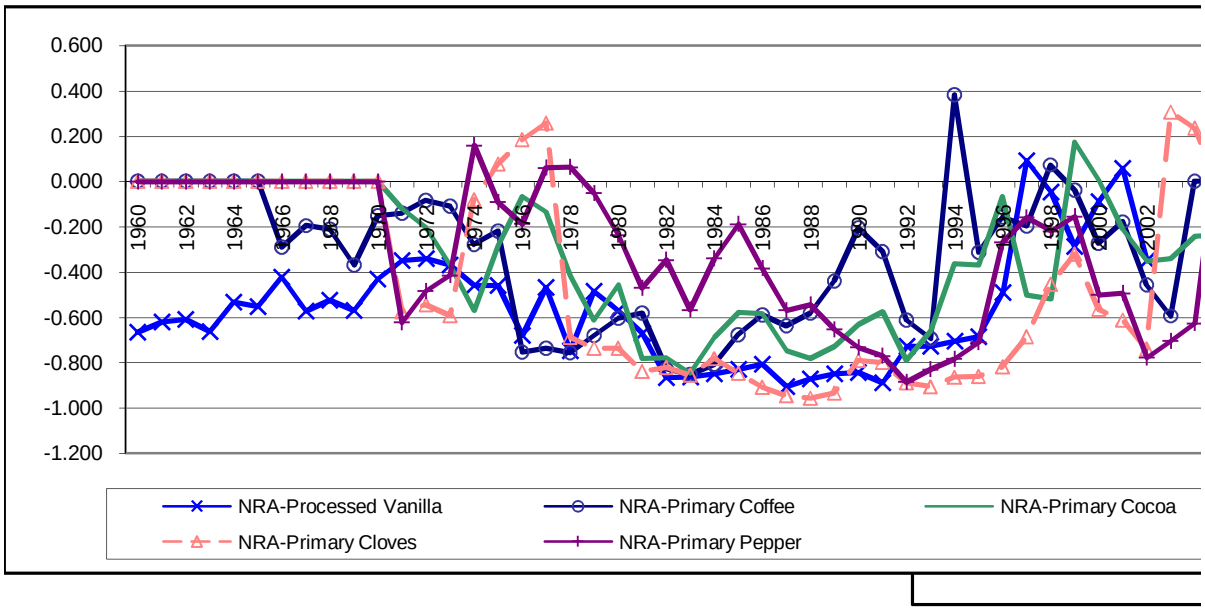
ɔES		VANILLA	
NRA = DP-BP / BP	Domestic price per MT	Border price per MT	NRA = DP-BP / BP
		68,626.51	
	1,089.70	72,546.88	-0.985
	2,682.45	73,157.14	-0.963
	2,612.63	71,895.83	-0.964
	2,754.83	69,913.98	-0.961
-0.872	2,344.32	55,766.67	-0.958
	1,268.08	18,515.63	-0.932
	2,062.51	14,753.85	-0.860
	1,929.65	18,256.41	-0.894
	3,978.50	17,073.53	-0.767
	9,789.46	32,348.48	-0.697
	11,317.91	90,597.83	-0.875
	12,285.50	146,559.14	-0.916
-0.896	18,038.41	164,243.24	-0.890
		97,257.58	

ed in brackets so the two international prices are reported.

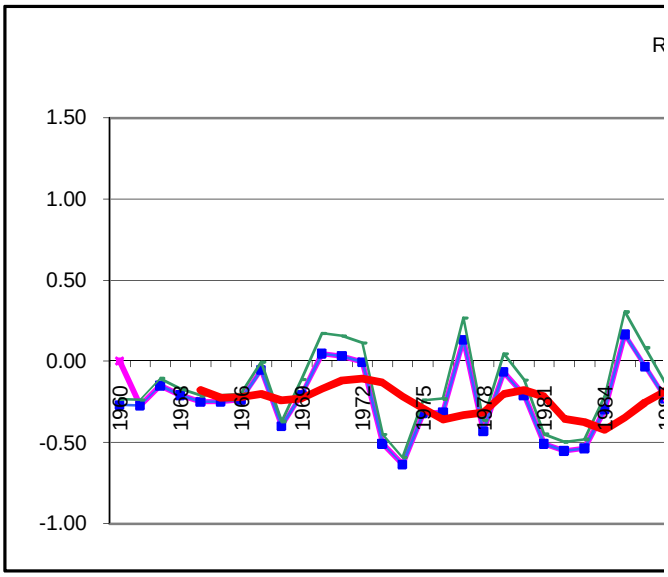
ce Trade Stat	Processed	x	X	X	X	X
		1960	**1961**	**1962**	**1963**	**1964**
	NRA-Farmgate	n.a.	-0.27	-0.15	-0.21	-0.25
	NRA-Primary	n.a.	-0.27	-0.15	-0.21	-0.25
Rice	NRA-Processed	-0.27	-0.27	-0.15	-0.21	-0.25
	CTEp	n.a.	-0.27	-0.15	-0.21	-0.25
	CTEc Primary	n.a.	-0.27	-0.15	-0.21	-0.25
	CTEc Processed	-0.23	-0.24	-0.11	-0.17	-0.21
	Processed	X	X	X	X	X
		1960	**1961**	**1962**	**1963**	**1964**
	NRA-Farmgate					
	Sugar Cane	-0.02	0.03	0.01	0.00	0.00
	NRA-Primary	-0.01	0.02	0.00	0.00	0.00
Sugar	NRA-Processed					
	Sugar	-0.18	0.30	0.06	0.00	-0.04
	CTEp	-0.01	0.02	0.00	0.00	0.00
	CTEc Primary	-0.02	0.03	0.01	0.00	0.00
	CTEc Processed	-0.14	0.36	0.12	0.05	0.01
	Primary	n.a.	n.a.	n.a.	n.a.	n.a.
		1955	**1956**	**1957**	**1958**	**1959**
	NRA-Farmgate					
	Maize	n.a.	n.a.	n.a.	n.a.	n.a.
Maize	NRA-Primary	n.a.	n.a.	n.a.	n.a.	0.000
	CTEp	n.a.	n.a.	n.a.	n.a.	0.000
	CTEc Primary	n.a.	n.a.	n.a.	n.a.	0.000
		1955	**1956**	**1957**	**1958**	**1959**
	Maize international price					
		16927	16740	15143	12114	12114
	Domestic price	12040	12040	12040	12040	12040
	Primary	n.a.	n.a.	n.a.	n.a.	n.a.
		1955	**1956**	**1957**	**1958**	**1959**
Sweet	NRA-Farmgate	n.a.	n.a.	n.a.	n.a.	n.a.
Potatoes	CTEc Primary	n.a.	n.a.	n.a.	n.a.	n.a.
	Primary	n.a.	n.a.	n.a.	n.a.	n.a.
		1955	**1956**	**1957**	**1958**	**1959**
Cassava	NRA-Farmgate	n.a.	n.a.	n.a.	n.a.	n.a.
	CTEc Primary	n.a.	n.a.	n.a.	n.a.	n.a.
	Processed	X	X	X	X	X
		1960	**1961**	**1962**	**1963**	**1964**
	NRA-Farmgate	-0.665	-0.621	-0.609	-0.664	-0.534
	NRA-Primary	-0.665	-0.621	-0.609	-0.664	-0.534
	NRA-Processed					
Vanilla	Vanilla	-0.665	-0.621	-0.609	-0.664	-0.534
	CTEp	-0.665	-0.621	-0.609	-0.664	-0.534
	CTEc Primary	-0.665	-0.621	-0.609	-0.664	-0.534

	CTEc Processed	-0.648	-0.602	-0.590	-0.647	-0.511
	Primary	n.a.	X	X	X	X
		1960	**1961**	**1962**	**1963**	**1964**
	NRA-Farmgate	n.a.	n.a.	n.a.	n.a.	n.a.
	NRA-Primary					
Coffee	Coffee	n.a.	n.a.	n.a.	n.a.	n.a.
	CTEp	n.a.	n.a.	n.a.	n.a.	n.a.
	CTEc Primary	n.a.	n.a.	n.a.	n.a.	n.a.
	Primary	n.a.	n.a.	n.a.	n.a.	n.a.
		1955	**1956**	**1957**	**1958**	**1959**
	NRA-Farmgate	n.a.	n.a.	n.a.	n.a.	n.a.
	NRA-Primary					
Cloves	Cloves	n.a.	n.a.	n.a.	n.a.	n.a.
	CTEp	n.a.	n.a.	n.a.	n.a.	n.a.
	CTEc Primary	n.a.	n.a.	n.a.	n.a.	n.a.
	Primary	n.a.	n.a.	n.a.	n.a.	n.a.
		1955	**1956**	**1957**	**1958**	**1959**
	NRA-Farmgate	n.a.	n.a.	n.a.	n.a.	n.a.
	NRA-Primary					
Cocoa	Cocoa	n.a.	n.a.	n.a.	n.a.	n.a.
	CTEp	n.a.	n.a.	n.a.	n.a.	n.a.
	Primary	n.a.	n.a.	n.a.	n.a.	n.a.
		1955	**1956**	**1957**	**1958**	**1959**
	NRA-Farmgate	n.a.	n.a.	n.a.	n.a.	n.a.
	NRA-Primary					
Pepper	Pepper	n.a.	n.a.	n.a.	n.a.	n.a.
	CTEp	n.a.	n.a.	n.a.	n.a.	n.a.





Vanilla prices		1960	1961	1962	1963	1964
	Farm-gate price	150000				
	FOB price, MDG					



ıg NRA-Farmgate

		1955	1956	1957	1958	1959
NRA BY TRADE STATUS	Primary Exportables	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Primary Importables	0.00	0.00	0.00	0.00	0.00
	Primary Nontradables	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Average NRA all commoc	#REF!	#REF!	#REF!	#REF!	#REF!

ıg NRA-Farmgate

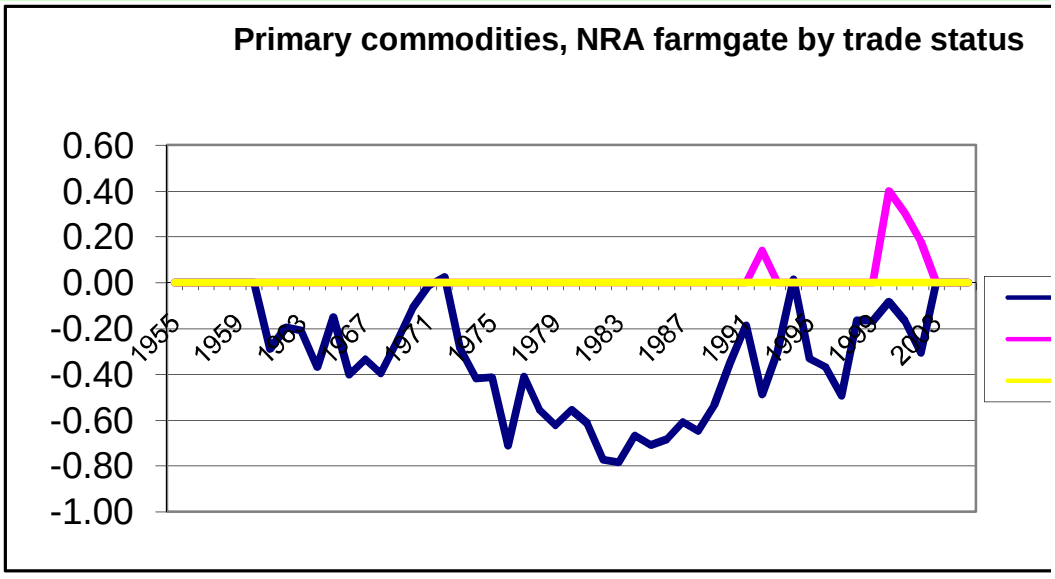
Processed rice expo	#REF!	#REF!	#REF!	#REF!	#REF!
Processed Rice importal	#REF!	#REF!	#REF!	#REF!	#REF!
Processed Rice nontrada	#REF!	#REF!	#REF!	#REF!	#REF!
Processed Sugar exporta	#REF!	#REF!	#REF!	#REF!	#REF!
Processed sugar importa	#REF!	#REF!	#REF!	#REF!	#REF!
Processed Sugar nontrad	#REF!	#REF!	#REF!	#REF!	#REF!

		1955	1956	1957	1958	1959
PROCESSED, NRA-Farmgate BY TRADE	Processed Exportables	#REF!	#REF!	#REF!	#REF!	#REF!
	Processed Importables	#REF!	#REF!	#REF!	#REF!	#REF!
	·ocessed Nontradabl	#REF!	#REF!	#REF!	#REF!	#REF!

RA-Processed goods

Processed rice expo	#REF!	#REF!	#REF!	#REF!	#REF!
Processed Rice importal	#REF!	#REF!	#REF!	#REF!	#REF!
Processed Rice nontrada	#REF!	#REF!	#REF!	#REF!	#REF!
Processed Sugar exporta	#REF!	#REF!	#REF!	#REF!	#REF!
Processed sugar importa	#REF!	#REF!	#REF!	#REF!	#REF!
Processed Sugar nontrad	#REF!	#REF!	#REF!	#REF!	#REF!

		1955	1956	1957	1958	1959
PROCESSED, NRA-Farmgate BY TRADE	Processed Exportables	#REF!	#REF!	#REF!	#REF!	#REF!
	Processed Importables	#REF!	#REF!	#REF!	#REF!	#REF!
	·ocessed Nontradabl	#REF!	#REF!	#REF!	#REF!	#REF!



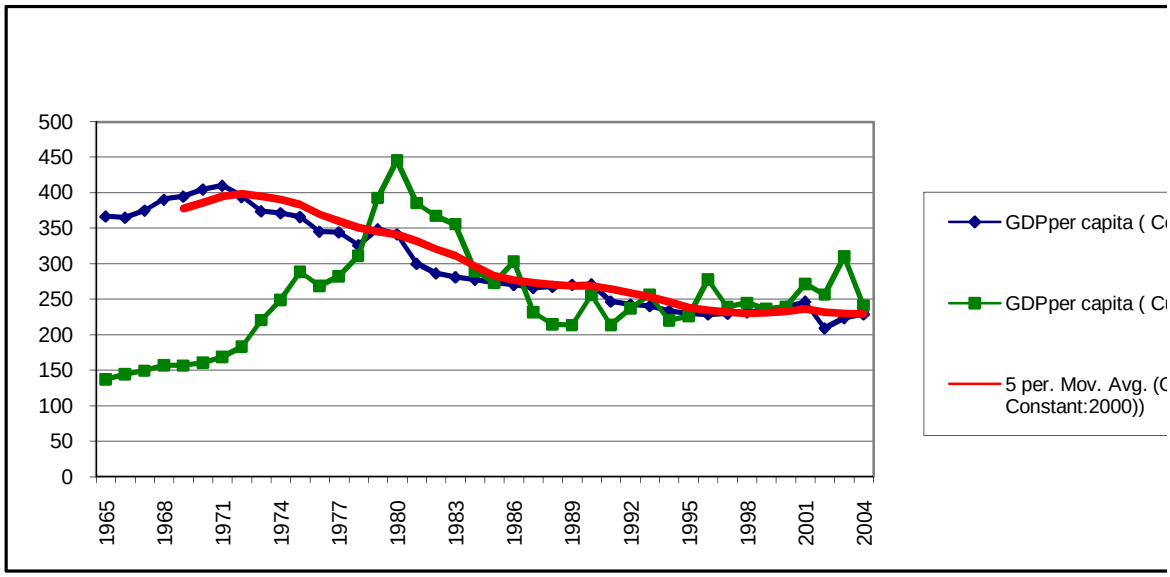
IRA-Farm-gate

	1955-1971	1972-88	1989-2005
rall NRA ave	#REF!	-0.33	#REF!

Rice
NRA farm-gate

nary exportal	#DIV/0!	-0.55	-0.28	NRA processed
nary importal	0.00	0.00	0.06	CTEc processe
ıary nontrada	#DIV/0!	0.00	0.00	

	1965	1966	1967	1968	1969	1970
capita (Const	366.9153463	365.0046826	375.3742854	390.7491128	394.8860649	405.0202627
er capita (Cı	136.8854138	144.0941204	149.1861965	156.8042661	156.4401787	160.4154812



	1970	1971	1972	1973	1974	1975
REER_MDG						
NEER_MD(	285.83	285.04	293.27	306.17	294.26	317.25
NEERparall	288.1324337	281.655882	286.68018	308.6407331	338.448894	364.886635

DRA to all Agricultural sector

	1960	1961	1962	1963	1964	1965
Importable	0.206220696	0.212121212	0.184313134	0.216286039	0.201541485	-0.2411356
Exportable	-0.101789811	-0.23082421	-0.13184094	-0.175257393	-0.19574119	-0.08287481
Nontradable	#VALUE!	0	0	0	0	0
Total DRA	#VALUE!	-0.08493984	-0.0481936	-0.070532423	-0.08110191	-0.0785742

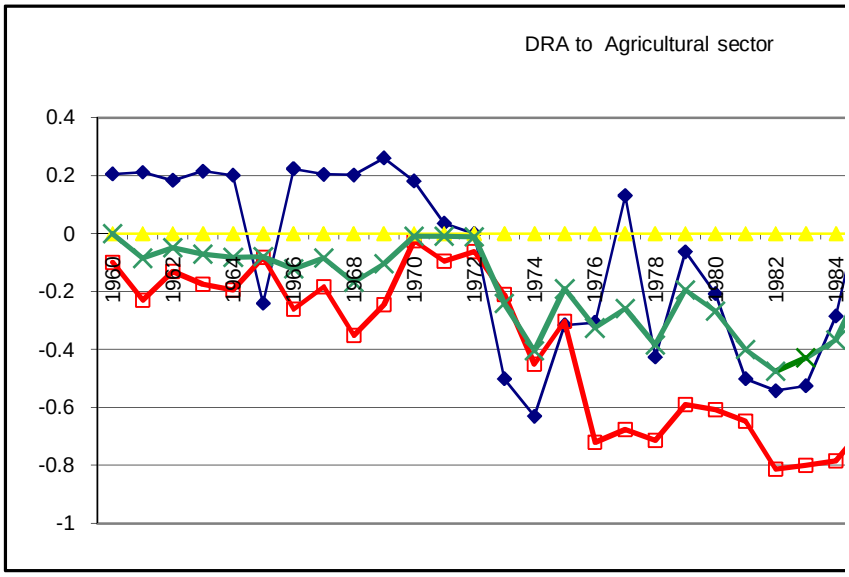
	1960-1971	1972-1988	1989-2005
Importable	0.16	-0.24	0.05
Exportable	-0.17	-0.59	-0.24
Nontradable	#VALUE!	0.00	0.00
Total DRA	#VALUE!	-0.28	-0.03

DRA to All non-ag sector

	1955	1956	1957	1958	1959	1960
Importable	0.124197988	0.124353061	0.124356697	0.124395719	0.124362565	0.159269621
Exportable	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Nontradable	0	0	0	0	0	0
Total DRA	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

	1960-1971	1972-1988	1989-2005
Importable	0.16	0.19	0.14

Exportable	#VALUE!	-0.07	-0.02
Nontradable	0.00	0.00	0.00
Total DRA	#VALUE!	0.02	0.01



NRAnew	0.921587886	0.522320585	1.028610338	0.679482172	0.315051907
NRAold					-0.24652116

1955	1956	1957	1958	1959
n.a.	n.a.	n.a.	n.a.	n.a.
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172

1955	1956	1957	1958	1959
0.259378176	n.a.	0.283141328	n.a.	-0.25012225
1.432550211	0.795876529	0.422729519	0.895897512	0.569609507
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172

1955	1956	1957	1958	1959
n.a.	n.a.	n.a.	n.a.	n.a.

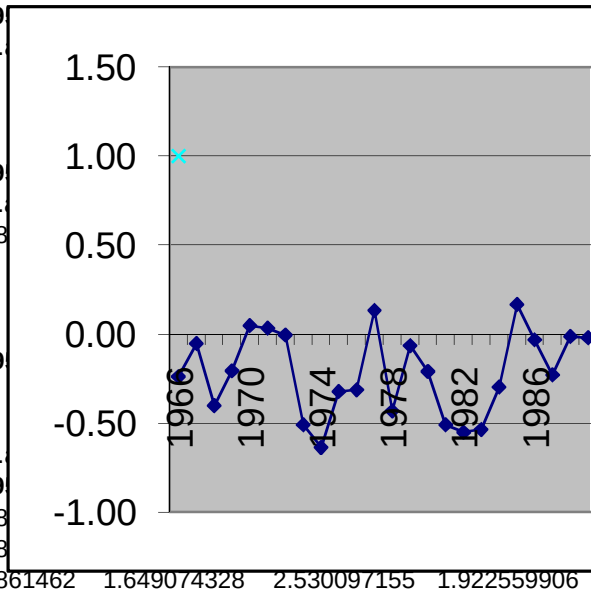
1955	1956	1957	1958	1959
0.428386727	n.a.	0.455338894	n.a.	-0.14948866
1.758998449	1.036883159	0.61365982	1.150326958	0.780251102

RICE(REV28-08)

1955	1956	1957	1958	1959
n.a.	n.a.	n.a.	n.a.	n.a.
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172
5.007829124	3.485123171	2.592682993	3.724339193	2.943969748

1955	1956	1957	1958	1959
			1.028610338	0.679482172

0.259378176	n.a.	0.283141328	n.a.	-0.25012225
1.432550211	0.795876529	0.422729519	0.895897512	0.569609507
2.756865408	1.585131164	0.898391407	1.769209781	1.168709336
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172
1.602828726	0.921587886	0.522320585	1.028610338	0.679482172
6.182505091	4.302621199	3.200843201	4.597949621	3.634530553
5.007829124	3.485123171	2.592682993	3.724339193	2.943969748
6.182505091	4.302621199	3.200843201	4.597949621	3.634530553



1955	**19**			
n.a.	n.			
1955	**19**			
0.428386727	n.			
1.758998449	1.0368			
1955	**19**			
n.a.	n.			
1955	**19**			
2.474675168	2.3438			
2.474675168	2.3438			
2.474675168	2.343861462	1.649074328	2.530097155	1.922559906
2.474675168	2.343861462	1.649074328	2.530097155	1.922559906
n.a.	n.a.	n.a.	n.a.	n.a.
2.474675168	2.343861462	1.649074328	2.530097155	1.922559906

NRA-Farmgate
NRA-Processed
CTEc Processed
NRA-Farmgate
NRA-Processed
CTEc Processed

		1960	1961	1962	1963	1964
	NRA-Farmgate	n.a.	-0.27	-0.15	-0.21	-0.25
Rice	NRA-Processed	-0.27	-0.27	-0.15	-0.21	-0.25
	CTEc Processed	-0.23	-0.24	-0.11	-0.17	-0.21

Rice	1960-1971	1972-88	1989-2005

Rice

NRA farm-gate	-0.18	-0.26	0.01	**NRA farm-gate**
NRA processed	-0.19	-0.26	0.10	**NRA processed**
CTEc processed	-0.13	-0.17	0.32	**CTEc processed**

M	X	X	X	x	x	m	m
1965	**1966**	**1967**	**1968**	**1969**	**1970**	**1971**	**1972**
-0.25	-0.24	-0.05	-0.40	-0.21	0.05	0.03	-0.01
-0.25	-0.24	-0.05	-0.40	-0.21	0.05	0.03	-0.01
-0.25	-0.24	-0.05	-0.40	-0.21	0.05	0.03	-0.01
-0.25	-0.24	-0.05	-0.40	-0.21	0.05	0.03	-0.01
-0.25	-0.24	-0.05	-0.40	-0.21	0.05	0.03	-0.01
-0.21	-0.20	-0.01	-0.37	-0.11	0.17	0.16	0.11
		-0.13	-0.14				
		-0.16	-0.18	-0.25	-0.08	-0.24	-0.11

X	X	X	X	X	X	X	X
1965	**1966**	**1967**	**1968**	**1969**	**1970**	**1971**	**1972**
-0.02	-0.02	-0.02	-0.02	-0.01	-0.02	-0.01	0.01
-0.01	-0.02	-0.02	-0.02	-0.01	-0.02	-0.01	0.01
-0.16	-0.17	-0.19	-0.25	-0.08	-0.25	-0.12	0.12
-0.01	-0.02	-0.02	-0.02	-0.01	-0.02	-0.01	0.01
-0.02	-0.02	-0.02	-0.02	-0.01	-0.02	-0.01	0.01
-0.12	-0.13	-0.14	-0.17	0.03	-0.16	-0.01	0.26

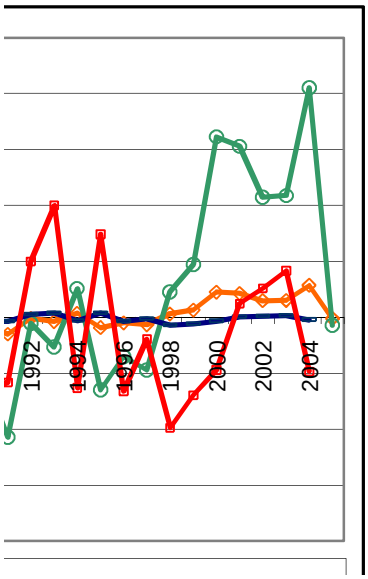
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	X	X
1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.407	-0.252
n.a.	n.a.	0.000	0.000	0.000	0.000	-0.407	-0.252
n.a.	n.a.	0.000	0.000	0.000	0.000	-0.407	-0.252
n.a.	n.a.	0.000	0.000	0.000	0.000	-0.407	-0.252
1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**

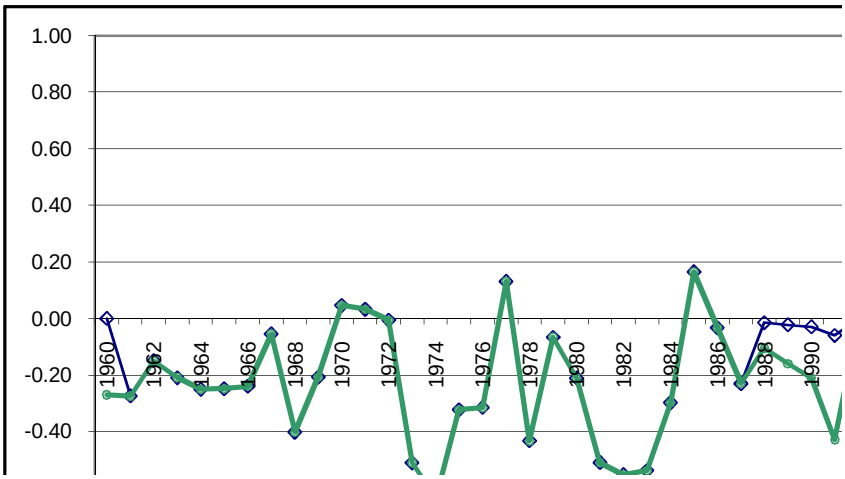
13373	10486	10878	12641	12381	12972	14179	11230
12040	13244	14448	15652	16856	18033	18791	19395
n.a.	H	H	H	H	H	H	H
1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**
n.a.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n.a.	0.00	0.00	0.00	0.00	0.00	0.00	0.00

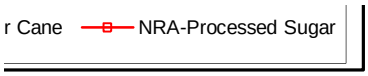
n.a.	H	H	H	H	H	H	H
1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**
n.a.	0.000	0.000	0.000	0.000	0.000	0.000	0.000
n.a.	0.000	0.000	0.000	0.000	0.000	0.000	0.000

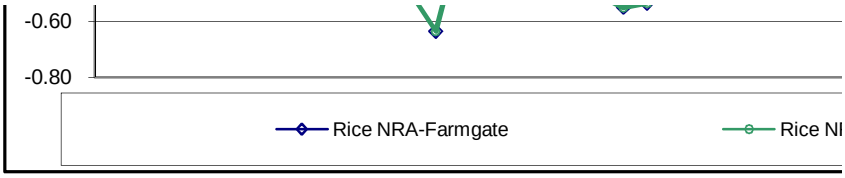
X	X	X	X	X	X	X	X
1965	**1966**	**1967**	**1968**	**1969**	**1970**	**1971**	**1972**
-0.554	-0.424	-0.572	-0.524	-0.571	-0.432	-0.349	-0.341
-0.554	-0.424	-0.572	-0.524	-0.571	-0.432	-0.349	-0.341
-0.554	-0.424	-0.572	-0.524	-0.571	-0.432	-0.349	-0.341
-0.554	-0.424	-0.572	-0.524	-0.571	-0.432	-0.349	-0.341
-0.554	-0.424	-0.572	-0.524	-0.571	-0.432	-0.349	-0.341

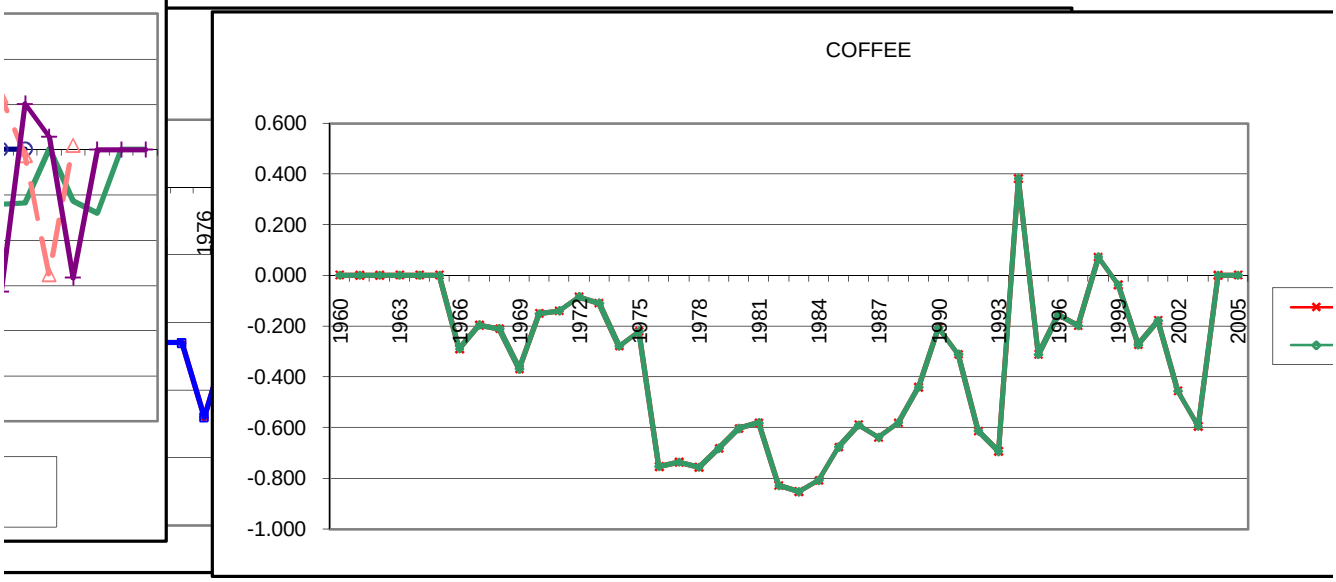
-0.532	-0.395	-0.550	-0.500	-0.520	-0.364	-0.271	-0.262
X	X	X	X	X	X	X	X
1965	**1966**	**1967**	**1968**	**1969**	**1970**	**1971**	**1972**
n.a.	-0.290	-0.196	-0.210	-0.369	-0.151	-0.140	-0.084
n.a.	-0.290	-0.196	-0.210	-0.369	-0.151	-0.140	-0.084
n.a.	-0.290	-0.196	-0.210	-0.369	-0.151	-0.140	-0.084
n.a.	-0.290	-0.196	-0.210	-0.369	-0.151	-0.140	-0.084
n.a.	X	X	X	X	X	X	X
1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.574	-0.543
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.574	-0.543
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.574	-0.543
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.574	-0.543
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	X	X
1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.12	-0.20
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.12	-0.20
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.12	-0.20
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.12	-0.20
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	X	X
1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.621	-0.483
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.621	-0.483
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-0.621	-0.483



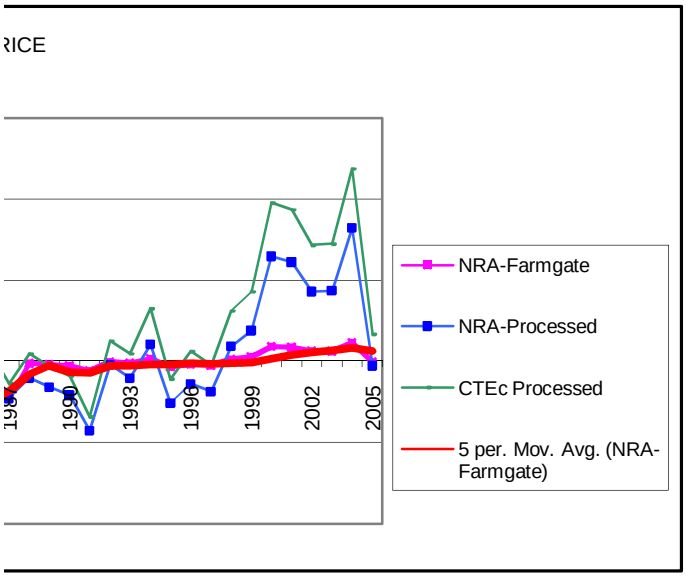








1965	1966	1967	1968	1969	1970	1971	1972



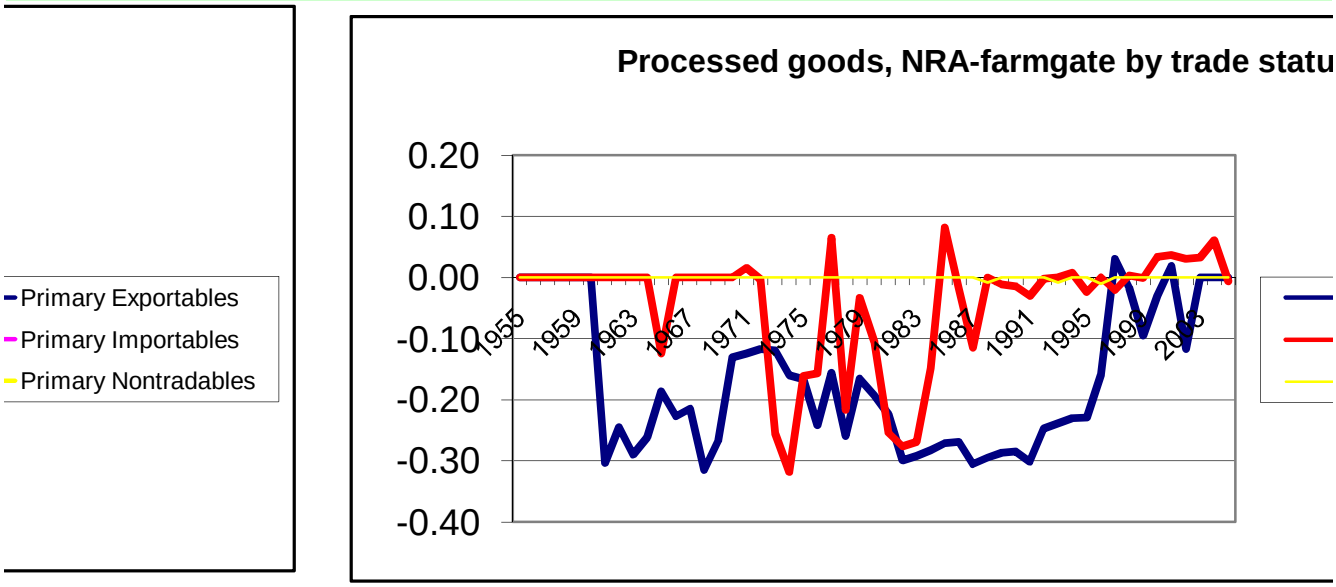
1960	1961	1962	1963	1964	1965	1966	1967
#DIV/0!	-0.29	-0.20	-0.21	-0.37	-0.15	-0.40	-0.34
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#REF!	-0.182	-0.147	-0.174	-0.157	-0.161	-0.269	-0.232

n.a.	-0.27466434	-0.15008736	-0.209452302	-0.25032738	0	-0.23972902	-0.054423254
0	0	0	0	0	-0.24868012	0	0
0	0	0	0	0	0	0	0
#REF!	-0.01527483	0.025295822	0.005344698	0.000402094	-0.00359014	-0.01647576	-0.017381908
#REF!	0	0	0	0	0	0	0
#REF!	0	0	0	0	0	0	0

1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**
#REF!	-0.30	-0.24	-0.29	-0.26	-0.19	-0.23	-0.21
#REF!	0.00	0.00	0.00	0.00	-0.12	0.00	0.00
#REF!	0	0	0	0	0	0	0

-0.27021544	-0.27466434	-0.15008736	-0.209452302	-0.25032738	0	-0.23972902	-0.054423254
0	0	0	0	0	-0.24868012	0	0
0	0	0	0	0	0	0	0
#REF!	-0.17889444	0.296257373	0.06259556	0.003984711	-0.03557794	-0.16327327	-0.172253139
#REF!	0	0	0	0	0	0	0
#REF!	0	0	0	0	0	0	0

1960	**1961**	**1962**	**1963**	**1964**	**1965**	**1966**	**1967**
#REF!	-0.36	-0.15	-0.27	-0.26	-0.20	-0.28	-0.27
#REF!	0.00	0.00	0.00	0.00	-0.12	0.00	0.00
#REF!	0	0	0	0	0	0	0



1960-1971	1972-88	1989-2005
-0.18	-0.26	0.01

maize	1955-1971	1972-88	1989-2005
NRA farm-gate	-0.16	0.05	0.10

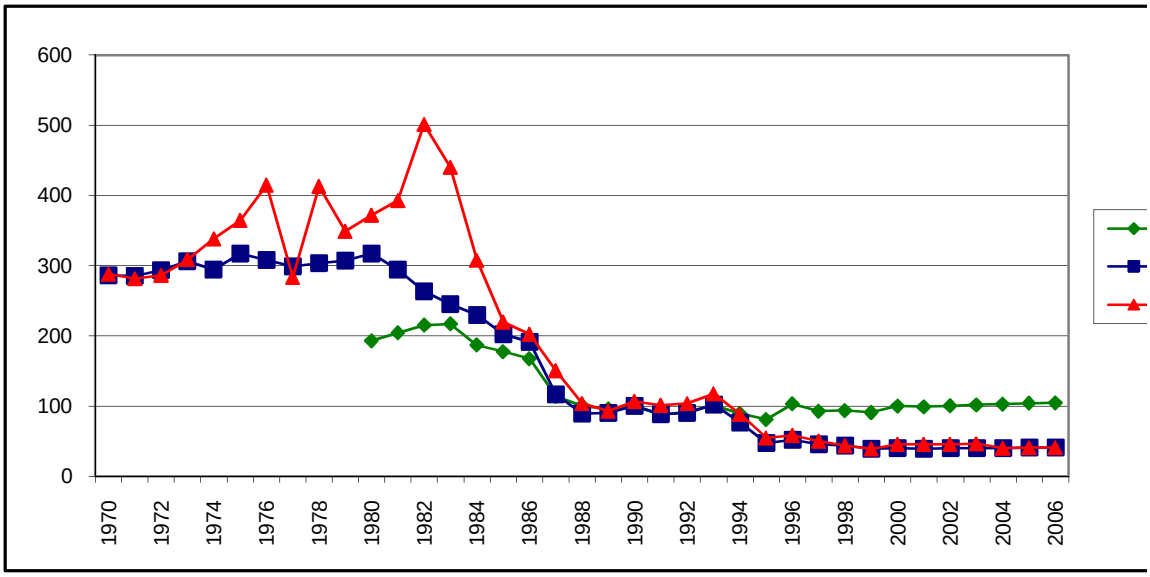
-0.19	-0.26	0.10		NRA processed	-0.09	0.05	0.08
-0.13	-0.17	0.32		CTEc processe	-0.09	0.05	0.08

1971	1972	1973	1974	1975	1976	1977	1978
410.0676479	394.3594325	374.0374799	371.5553286	366.3169133	345.6591913	344.3894791	326.2095998
168.5932833	183.3451421	220.4312432	248.9997613	288.6548237	268.5431284	282.5922909	311.2294747

onstant:2000)

urrent)

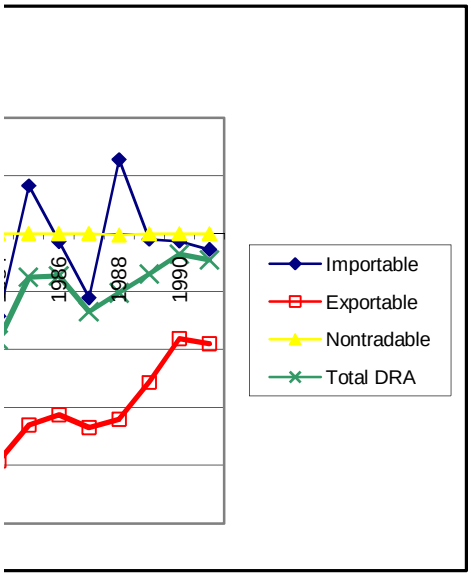
GDPper capita (

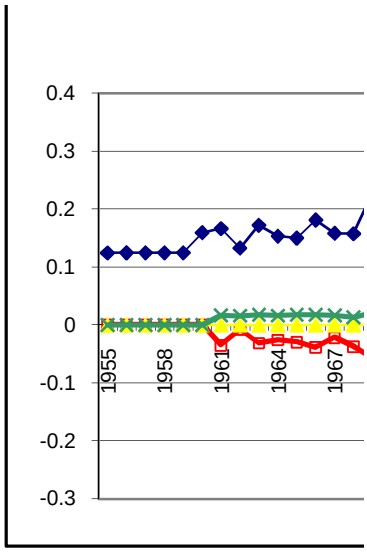


1976	1977	1978	1979	1980	1981	1982	1983
				192.536415	203.992962	214.834072	216.630218
307.84	298.99	303.76	307.65	316.87	294.04	263.43	245.09
414.996774	283.410668	412.778626	348.963901	371.879881	392.869137	501.497742	440.2277328

1966	1967	1968	1969	1970	1971	1972	1973
0.224383647	0.204646641	0.202707881	0.260981358	0.181726908	0.036063241	0.000209168	-0.501602299
-0.26084454	-0.18471042	-0.35196123	-0.246462111	-0.02580981	-0.09562205	-0.06290154	-0.210742932
0	0	0	0	0	0	0	0
-0.12155946	-0.08385958	-0.16810258	-0.104241895	-0.00883136	-0.00821752	-0.01061616	-0.240684758

1961	1962	1963	1964	1965	1966	1967	1968
0.166059322	0.132729673	0.171668284	0.1529204	0.149780583	0.180935203	0.157915081	0.157282467
-0.03501374	-0.00809197	-0.03126048	-0.025762362	-0.02969825	-0.03858673	-0.02158904	-0.037227263
0	0	0	0	0	0	0	0
0.016300584	0.015803378	0.017974389	0.015944631	0.017244447	0.017908945	0.016498915	0.012934353





-0.48152134	-0.37962472	-0.40496798	-0.443731027	-0.53946827	-0.42869615	-0.31123048	-0.570895234
-0.63333945	-0.62934523	-0.62419889	-0.596398496	-0.60714455	-0.65446695	-0.72491715	-0.713402731

1960	1961	1962	1963	1964	1965	1966	1967
-0.24652116	-0.63333945	-0.62934523	-0.624198887	-0.5963985	-0.60714455	-0.65446695	-0.72491715
0.315051907	-0.48152134	-0.37962472	-0.40496798	-0.44373103	-0.53946827	-0.42869615	-0.311230485
0.017221414	-0.48152134	-0.37962472	-0.40496798	-0.44373103	0	-0.42869615	-0.311230485

1960	1961	1962	1963	1964	1965	1966	1967
			-0.565711032	-0.56852542	-0.56324191	n.a.	n.a.
			-0.443895309	-0.48012245	-0.56959651	-0.46607117	-0.356290173
			-0.40496798	-0.44373103	-0.53946827	-0.42869615	-0.311230485
			-0.40496798	-0.44373103	0	-0.42869615	-0.311230485
0.246897	n.a.	n.a.					
0.278556863	n.a.	n.a.					
0.315051907	-0.48152134	-0.37962472					
0.017221414	-0.48152134	-0.37962472					

1960	1961	1962	1963	1964	1965	1966	1967
0.032693448	-0.63333945	-0.62934523	-0.624198887	-0.5963985	-0.60714455	-0.65446695	-0.72491715

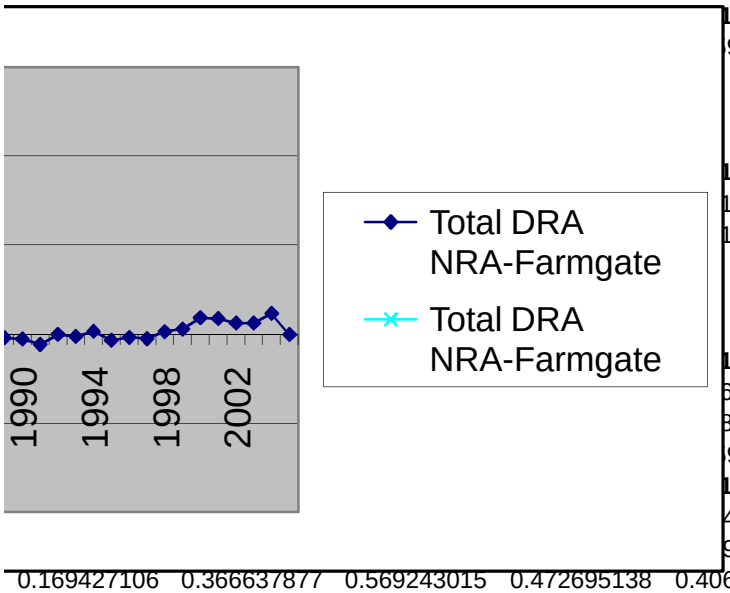
1960	1961	1962	1963	1964	1965	1966	1967
0.414230577	n.a.	n.a.	-0.507429452	-0.51062153	-0.50462897	n.a.	n.a.
0.450139194	n.a.	n.a.	-0.369266059	-0.41035489	-0.51183636	-0.39441792	-0.269904314

1960	1961	1962	1963	1964	1965	1966	1967
-0.24652116	-0.63333945	-0.62934523	-0.624198887	-0.5963985	-0.60714455	-0.65446695	-0.72491715
0.315051907	-0.48152134	-0.37962472	-0.40496798	-0.44373103	-0.53946827	-0.42869615	-0.311230485
0.017221414	-0.48152134	-0.37962472	-0.40496798	-0.44373103	0	-0.42869615	-0.311230485
0.021526767	0.348900778	0.57665957	0.520012452	0.433369493	0	0.466975364	0.72953401

1960	1961	1962	1963	1964	1965	1966	1967
			-0.565711032	-0.56852542	-0.56324191	n.a.	n.a.
			-0.443895309	-0.48012245	-0.56959651	-0.46607117	-0.356290173
			-0.40496798	-0.44373103	-0.53946827	-0.42869615	-0.311230485
0.021526767	-0.82821671	-0.65295452	-0.696544926	-0.76321737	0	-0.73735738	-0.535316434
0.017221414	-0.48152134	-0.37962472	-0.40496798	-0.44373103	0	-0.42869615	-0.311230485
			-0.40496798	-0.44373103	0	-0.42869615	-0.311230485
0.017221414	0.430741701	0.711925395	0.641990681	0.535024065	0	0.576512795	0.900659271
0.021526767	0.348900778	0.57665957	0.520012452	0.433369493	0	0.466975364	0.72953401
0.021526767	0.348900778	0.57665957	0.520012452	0.433369493	0	0.466975364	0.72953401
0.017221414	0.430741701	0.711925395	0.641990681	0.535024065	0	0.576512795	0.900659271

0.246897	n.a.	n.a.
0.278556863	n.a.	n.a.

0.315051907	-0.48152134	-0.37962472
0.017221414	-0.48152134	-0.37962472



				1964
				963985
				1964
				1062153
				1035489
				1964
				6852542
				3012245
				963985
				1964
				4567469
				9648348
0.169427106	0.366637877	0.569243015	0.472695138	0.406218169
0.084713553	0.450964589	0.700168908	0.58141502	0.499648348
0.13894923	0.523512818	0.785177353	0.660485771	0.574630766
0.084713553	0.450964589	0.700168908	0.58141502	0.499648348

1965	**1966**	**1967**
-0.60714455	-0.65446695	-0.72491715
1965	**1966**	**1967**
-0.50462897	n.a.	n.a.
-0.51183636	-0.39441792	-0.269904314
1965	**1966**	**1967**
-0.56324191	n.a.	n.a.
-0.56959651	-0.46607117	-0.356290173
-0.60714455	-0.65446695	-0.72491715
1965	**1966**	**1967**
0	0.61369834	1.040694998
0	0.49894174	0.846093494
0	0.405643691	0.687880889
0	0.49894174	0.846093494
0	0.573888827	0.938398169
0	0.49894174	0.846093494

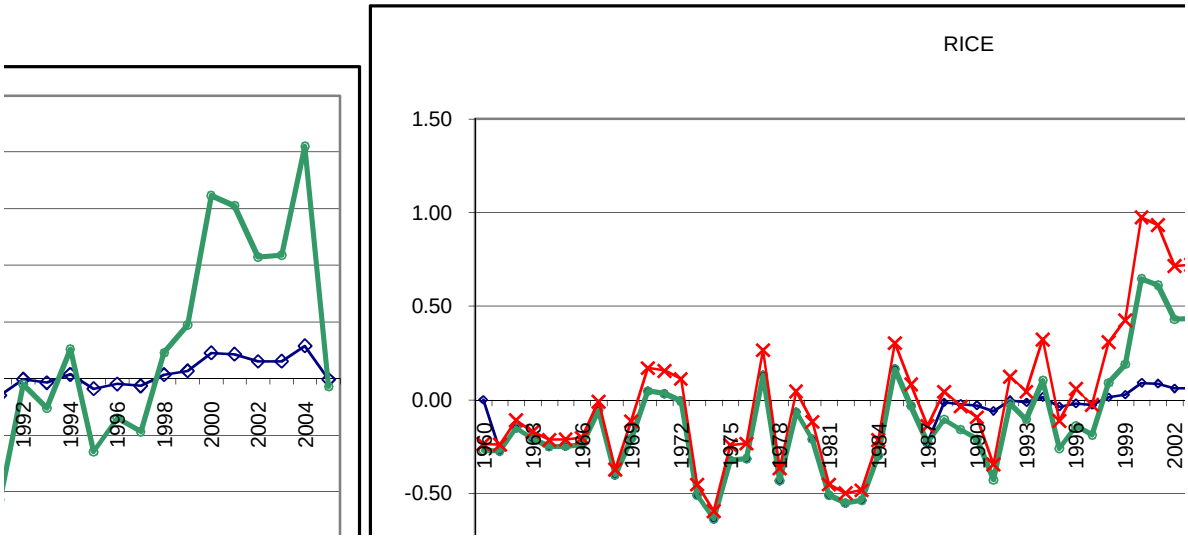
1965	**1966**	**1967**	**1968**	**1969**	**1970**	**1971**	**1972**
-0.25	-0.24	-0.05	-0.40	-0.21	0.05	0.03	-0.01
-0.25	-0.24	-0.05	-0.40	-0.21	0.05	0.03	-0.01
-0.21	-0.20	-0.01	-0.37	-0.11	0.17	0.16	0.11

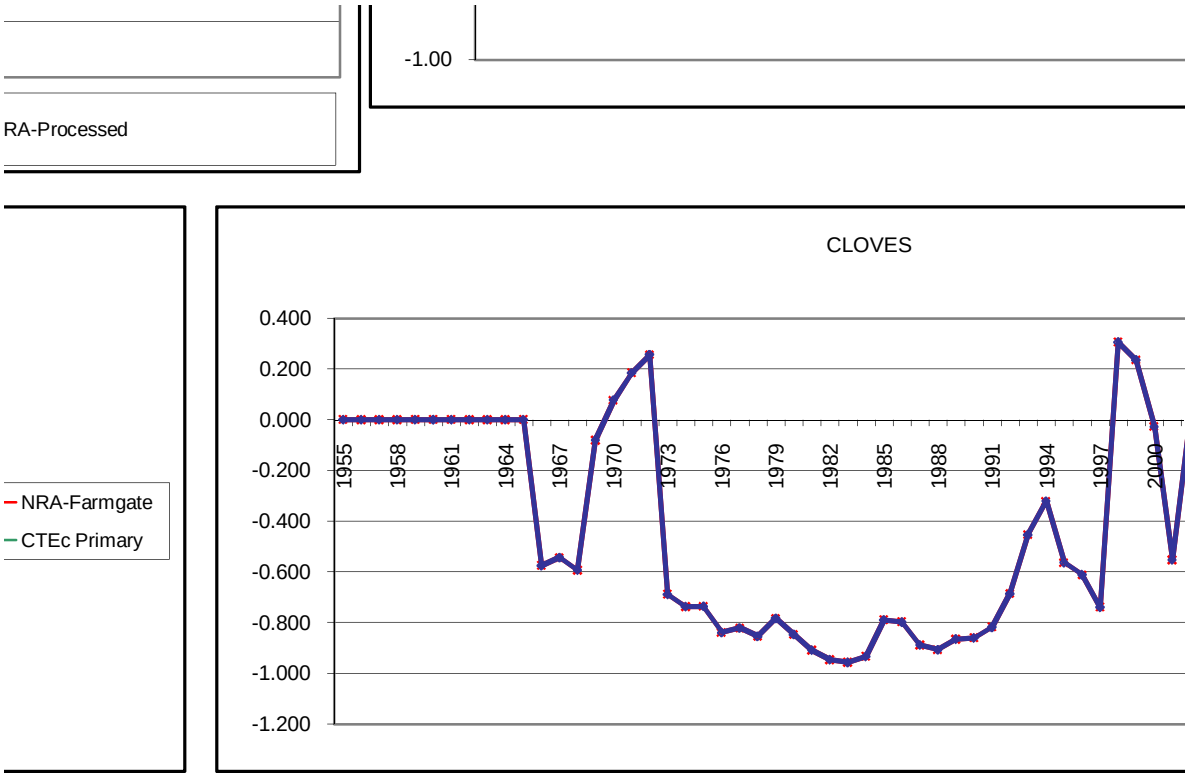
1960-1971	**1972-88**	**1989-2005**

0.21	**-0.12**	**0**
0.43	**-0.17**	**0.13**
0.24	**-0.09**	**0.35**

M	M	M	M	M	M	M
1973	**1974**	**1975**	**1976**	**1977**	**1978**	**1979**
-0.51	-0.64	-0.32	-0.31	0.13	-0.43	-0.07
-0.51	-0.64	-0.32	-0.31	0.13	-0.43	-0.07
-0.51	-0.64	-0.32	-0.31	0.13	-0.43	-0.07
-0.51	-0.64	-0.32	-0.31	0.13	-0.43	-0.07
-0.51	-0.64	-0.32	-0.31	0.13	-0.43	-0.07
-0.45	-0.59	-0.24	-0.23	0.27	-0.36	0.05
0.11	-0.19	-0.37	-0.49	-0.01	-0.34	-0.11
X	X	X	X	X	X	X
1973	**1974**	**1975**	**1976**	**1977**	**1978**	**1979**
-0.02	-0.04	-0.04	0.00	-0.03	-0.01	-0.01
-0.02	-0.04	-0.04	0.00	-0.03	-0.01	-0.01
-0.20	-0.39	-0.50	-0.01	-0.35	-0.12	-0.11
-0.02	-0.04	-0.04	0.00	-0.03	-0.01	-0.01
-0.02	-0.04	-0.04	0.00	-0.03	-0.01	-0.01
-0.11	-0.31	-0.45	0.11	-0.27	-0.01	0.00
H	X	H	X	H	H	H
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
0.000	-0.444	0.000	0.133	0.000	0.000	0.000
0.000	-0.444	0.000	0.133	0.000	0.000	0.000
0.000	-0.444	0.000	0.133	0.000	0.000	0.000
0.000	-0.444	0.000	0.133	0.000	0.000	0.000
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
10929	15126	13794	13348	11463	18578	32076
19553	19740	20496	21086	22221	23471	24907
H	H	H	H	H	H	H
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
H	H	H	H	H	H	H
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
X	X	X	X	X	X	X
1973	**1974**	**1975**	**1976**	**1977**	**1978**	**1979**
-0.370	-0.459	-0.461	-0.680	-0.467	-0.748	-0.486
-0.370	-0.459	-0.461	-0.680	-0.467	-0.748	-0.486
-0.370	-0.459	-0.461	-0.680	-0.467	-0.748	-0.486
-0.370	-0.459	-0.461	-0.680	-0.467	-0.748	-0.486
-0.370	-0.459	-0.461	-0.680	-0.467	-0.748	-0.486

-0.295	-0.394	-0.396	-0.642	-0.404	-0.718	-0.425
X	X	X	X	X	X	X
1973	**1974**	**1975**	**1976**	**1977**	**1978**	**1979**
-0.110	-0.278	-0.221	-0.754	-0.737	-0.757	-0.682
-0.110	-0.278	-0.221	-0.754	-0.737	-0.757	-0.682
-0.110	-0.278	-0.221	-0.754	-0.737	-0.757	-0.682
-0.110	-0.278	-0.221	-0.754	-0.737	-0.757	-0.682
X	X	X	X	X	X	X
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
-0.592	-0.080	0.078	0.184	0.257	-0.688	-0.736
-0.592	-0.080	0.078	0.184	0.257	-0.688	-0.736
-0.592	-0.080	0.078	0.184	0.257	-0.688	-0.736
-0.592	-0.080	0.078	0.184	0.257	-0.688	-0.736
X	X	X	X	X	X	X
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
-0.37	-0.57	-0.29	-0.07	-0.14	-0.42	-0.61
-0.37	-0.57	-0.29	-0.07	-0.14	-0.42	-0.61
-0.37	-0.57	-0.29	-0.07	-0.14	-0.42	-0.61
X	X	X	X	X	X	X
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
-0.414	0.159	-0.090	-0.186	0.060	0.064	-0.051
-0.414	0.159	-0.090	-0.186	0.060	0.064	-0.051
-0.414	0.159	-0.090	-0.186	0.060	0.064	-0.051





1973	1974	1975	1976	1977	1978	1979

1968	1969	1970	1971	1972	1973	1974
-0.40	-0.26	-0.11	-0.01	0.02	-0.29	-0.42
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
-0.253	-0.211	-0.084	-0.042	-0.026	-0.202	-0.280

-0.40191256	-0.207700957	0.045835471	0	0	0	0
0	0	0	0.032142158	-0.006347237	-0.510342101	-0.637083273
0	0	0	0	0	0	0
-0.01868119	-0.021754459	-0.00669411	-0.02493524	-0.012017191	0.012266609	-0.020423407
0	0	0	0	0	0	0
0	0	0	0	0	0	0

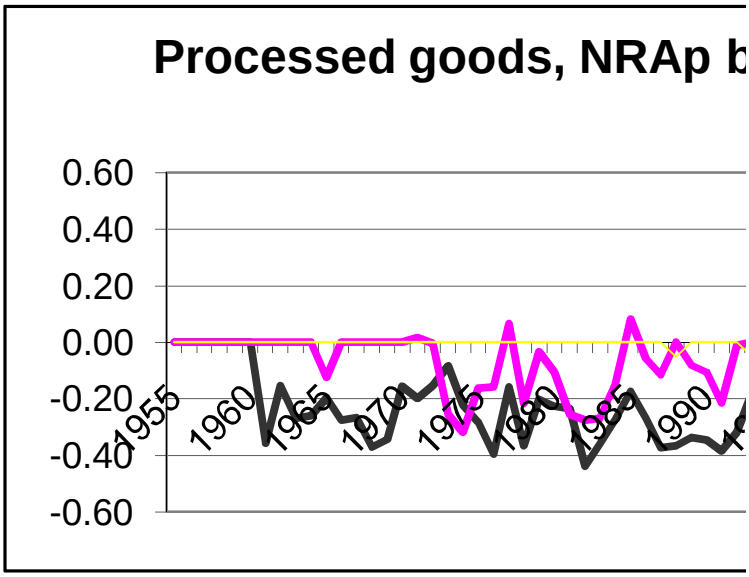
1968	1969	1970	1971	1972	1973	1974
-0.31	-0.27	-0.13	-0.12	-0.12	-0.12	-0.16
0.00	0.00	0.00	0.02	0.00	-0.26	-0.32
0	0	0	0	0	0	0

-0.40191256	-0.207700957	0.045835471	0	0	0	0
0	0	0	0.032142158	-0.006347237	-0.510342101	-0.637083273
0	0	0	0	0	0	0
-0.18512887	-0.25478195	-0.07839945	-0.24710595	-0.119089278	0.121560989	-0.202394119
0	0	0	0	0	0	0
0	0	0	0	0	0	0

1968	1969	1970	1971	1972	1973	1974
-0.37	-0.34	-0.15	-0.20	-0.15	-0.08	-0.22
0.00	0.00	0.00	0.02	0.00	-0.26	-0.32
0	0	0	0	0	0	0

IS

Processed Exportables
Processed Importables
Processed Nontradables

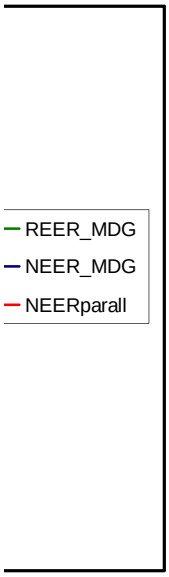


Vanilla	1955-1971	1972-97	1997-2005
NRA farm-gate	-0.53	-0.66	-0.14

Sugar
NRA farm-gate

NRA processed	-0.53	-0.66	-0.14	NRA processed
CTEc processed	-0.49	-0.61	0.03	CTEc processed

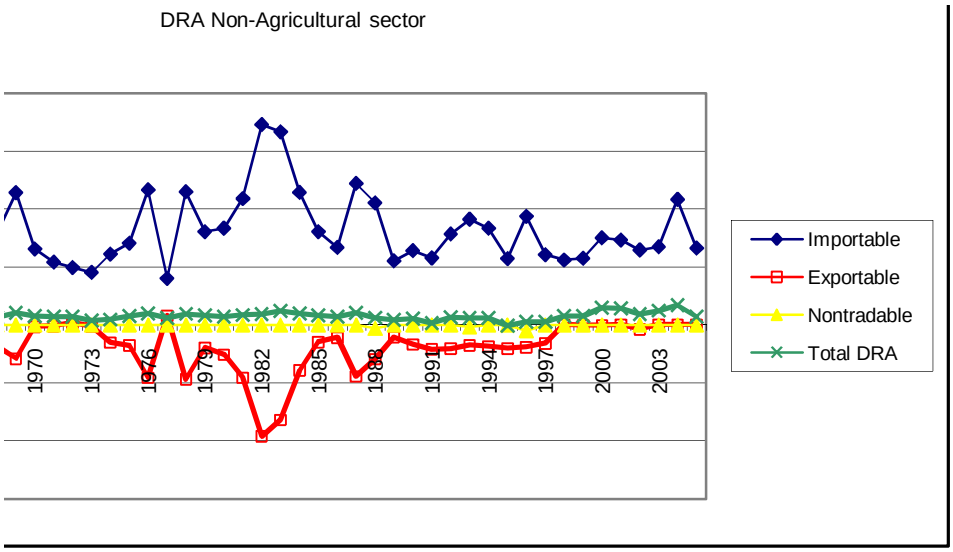
1979	1980	1981	1982	1983	1984	1985
348.6322126	341.8105137	300.1122186	286.4474179	280.9159999	277.6781299	273.013315
392.8118578	445.8664756	385.5514867	367.6208506	355.8171381	289.4815499	273.5557693



1984	1985	1986	1987	1988	1989	1990
186.655123	177.275613	167.089734	113.785099	100.55126	95.84118045	100
230.12	202.22	191.47	116.43	89.20	90.30	100.00
307.743066	219.993092	202.705845	150.927143	103.733403	93.09491078	107.11

1974	1975	1976	1977	1978	1979	1980
-0.63083372	-0.316215397	-0.30743488	0.131369293	-0.426643148	-0.062720381	-0.207212067
-0.45109171	-0.303580885	-0.72020399	-0.67605124	-0.71315175	-0.58999691	-0.608471294
0	0	0	0	0	0	0
-0.40479221	-0.190778175	-0.32551809	-0.25770495	-0.384872595	-0.194095712	-0.266929051

1969	1970	1971	1972	1973	1974	1975
0.228102528	0.131305466	0.108332683	0.099367907	0.090834254	0.122210358	0.141138296
-0.05828223	-0.002976859	-0.00200782	0.003852845	-0.00241032	-0.030231452	-0.03534962
0	0	0	0	0	0	0
0.020969689	0.015089028	0.014778734	0.014292338	0.007572612	0.009212992	0.015666833



-0.39046928	-0.149180947	-0.62811007	-0.64389151	-0.827552292	-0.84146348	-0.730290744
-0.73597867	-0.557827803	-0.48767588	-0.50941675	-0.762432072	-0.781596444	-0.628442327

1968	1969	1970	1971	1972	1973	1974
-0.71340273	-0.735978674	-0.5578278	-0.48767588	-0.509416751	-0.762432072	-0.781596444
-0.57089523	-0.390469279	-0.14918095	-0.62811007	-0.643891507	-0.827552292	-0.84146348
-0.57089523	-0.578515643	-0.29074906	-0.51352573	-0.544473879	-0.827552292	-0.84146348
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
n.a.	-0.62612957	-0.45292105	-0.38211328	-0.261452381	n.a.	n.a.
-0.59896751	-0.43034512	-0.20484201	-0.36248133	-0.414918484	n.a.	n.a.
-0.57089523	-0.390469279	-0.14918095	-0.62811007	-0.643891507	-0.827552292	-0.84146348
-0.57089523	-0.578515643	-0.29074906	-0.51352573	-0.544473879	-0.827552292	-0.84146348

1968	1969	1970	1971	1972	1973	1974
-0.71340273	-0.735978674	-0.5578278	-0.48767588	-0.509416751	-0.762432072	-0.781596444

1968	1969	1970	1971	1972	1973	1974
n.a.	-0.575956158	-0.37950305	-0.29919288	-0.162339291	n.a.	n.a.
-0.54514895	-0.353897436	-0.0981318	-0.27692632	-0.336400545	n.a.	n.a.

1968	1969	1970	1971	1972	1973	1974
-0.71340273	-0.735978674	-0.5578278	-0.48767588	-0.509416751	-0.762432072	-0.781596444
-0.57089523	-0.390469279	-0.14918095	-0.62811007	-0.643891507	-0.827552292	-0.84146348
-0.57089523	-0.578515643	-0.29074906	-0.51352573	-0.544473879	-0.827552292	-0.84146348
0.149132724	-0.723144554	-0.36343632	-0.64190716	-0.680592349	-0.424545787	-0.455640001

1968	1969	1970	1971	1972	1973	1974
n.a.	-0.62612957	-0.45292105	-0.38211328	-0.261452381	n.a.	n.a.
-0.59896751	-0.43034512	-0.20484201	-0.36248133	-0.414918484	n.a.	n.a.
-0.57089523	-0.390469279	-0.14918095	-0.62811007	-0.643891507	-0.827552292	-0.84146348
-0.9819398	-0.723144554	-0.36343632	-0.64190716	-0.680592349	-1.423389943	-1.447317185
-0.57089523	-0.578515643	-0.29074906	-0.51352573	-0.544473879	-0.827552292	-0.84146348
-0.57089523	-0.578515643	-0.29074906	-0.51352573	-0.544473879	-0.827552292	-0.84146348
0.184114474	-0.578515643	-0.29074906	-0.51352573	-0.544473879	-0.524130602	-0.56251852
0.149132724	-0.723144554	-0.36343632	-0.64190716	-0.680592349	-0.424545787	-0.455640001
0.149132724	-0.723144554	-0.36343632	-0.64190716	-0.680592349	-0.424545787	-0.455640001
0.184114474	-0.578515643	-0.29074906	-0.51352573	-0.544473879	-0.524130602	-0.56251852

1968	1969	1970	1971	1972	1973	1974
-0.71340273	-0.735978674	-0.5578278	-0.48767588	-0.509416751	-0.762432072	-0.781596444

1968	1969	1970	1971	1972	1973	1974
n.a.	-0.575956158	-0.37950305	-0.29919288	-0.162339291	n.a.	n.a.
-0.54514895	-0.353897436	-0.0981318	-0.27692632	-0.336400545	n.a.	n.a.

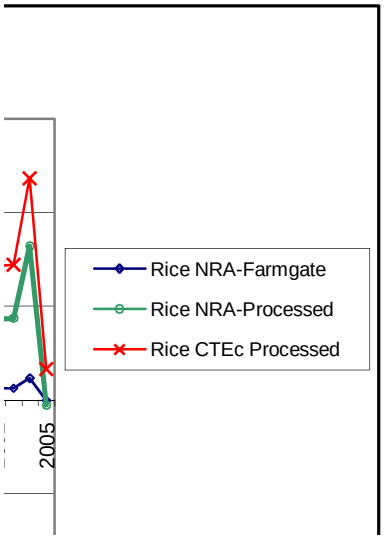
1968	1969	1970	1971	1972	1973	1974
n.a.	-0.62612957	-0.45292105	-0.38211328	-0.261452381	n.a.	n.a.
-0.59896751	-0.43034512	-0.20484201	-0.36248133	-0.414918484	n.a.	n.a.
-0.71340273	-0.735978674	-0.5578278	-0.48767588	-0.509416751	-0.762432072	-0.781596444
1968	**1969**	**1970**	**1971**	**1972**	**1973**	**1974**
0.191300361	-0.931630198	-0.5726183	-0.8606095	-0.937638152	-0.64703132	-0.714833292
0.155528749	-0.558978119	-0.34357098	-0.5163657	-0.562582891	-0.526041724	-0.581165278
0.126446138	-0.931630198	-0.5726183	-0.8606095	-0.937638152	-0.427676198	-0.472492096
0.155528749	-0.558978119	-0.34357098	-0.5163657	-0.562582891	-0.526041724	-0.581165278
0.213305187	-0.506055493	-0.26599949	-0.45832958	-0.510092838	-0.469166731	-0.530905112
0.155528749	-0.558978119	-0.34357098	-0.5163657	-0.562582891	-0.526041724	-0.581165278

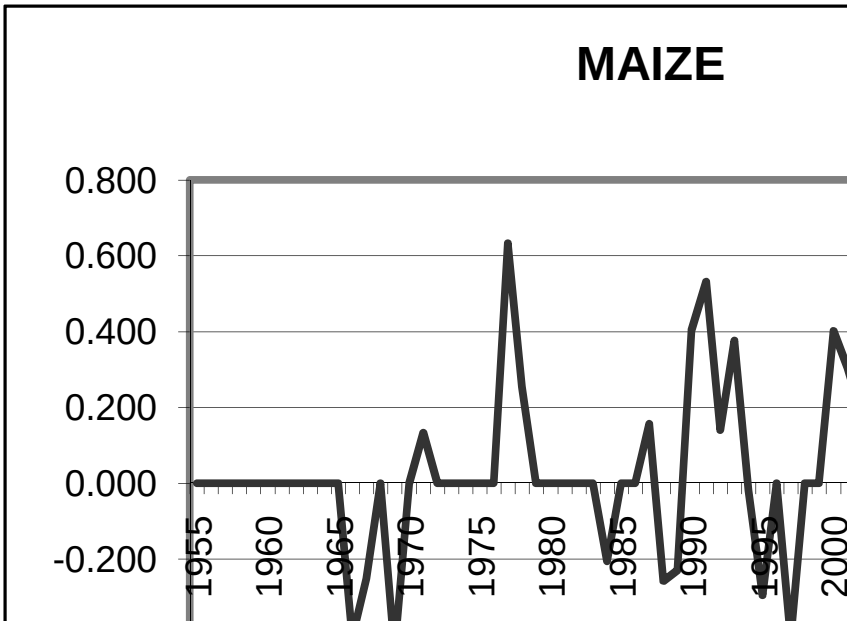
1973	1974	1975	1976	1977	1978	1979
-0.51	-0.64	-0.32	-0.31	0.13	-0.43	-0.07
-0.51	-0.64	-0.32	-0.31	0.13	-0.43	-0.07
-0.45	-0.59	-0.24	-0.23	0.27	-0.36	0.05

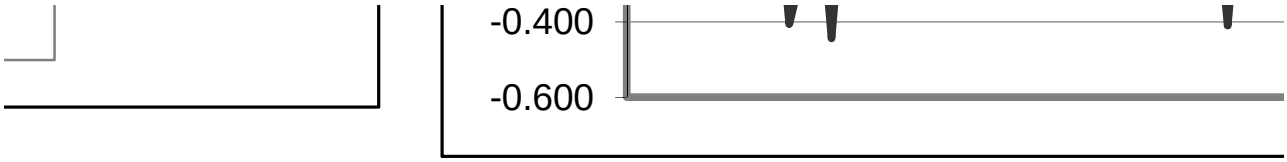
M	M	M	M	M	M	M
1980	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**
-0.21	-0.51	-0.55	-0.54	-0.30	0.16	-0.03
-0.21	-0.51	-0.55	-0.54	-0.30	0.16	-0.03
-0.21	-0.51	-0.55	-0.54	-0.30	0.16	-0.03
-0.21	-0.51	-0.55	-0.54	-0.30	0.16	-0.03
-0.21	-0.51	-0.55	-0.54	-0.30	0.16	-0.03
-0.12	-0.45	-0.50	-0.48	-0.21	0.30	0.08
-0.10	-0.03	-0.44	-0.21	0.03	0.30	-0.08
X	X	X	X	X	M	X
1980	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**
0.00	-0.03	-0.01	0.00	0.02	0.00	-0.01
0.00	-0.03	-0.01	0.00	0.01	0.00	-0.01
-0.04	-0.45	-0.22	0.03	0.30	-0.08	-0.22
0.00	-0.03	-0.01	0.00	0.01	0.00	-0.01
0.00	-0.03	-0.01	0.00	0.02	0.00	-0.01
0.08	-0.39	-0.12	0.15	0.46	0.03	-0.12
H	H	X	X	H	H	H
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
0.000	0.000	0.633	0.254	0.000	0.000	0.000
0.000	0.000	0.633	0.254	0.000	0.000	0.000
0.000	0.000	0.633	0.254	0.000	0.000	0.000
0.000	0.000	0.633	0.254	0.000	0.000	0.000
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**

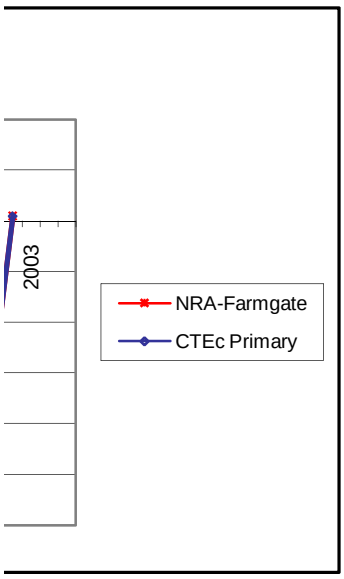
25877	36781	18164	31536	25306	28828	47953
30412	32903	34544	35617	37943	43276	51160
H	H	H	H	H	H	H
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
H	H	H	H	H	H	H
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
X	X	X	X	X	X	X
1980	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**
-0.570	-0.670	-0.866	-0.864	-0.850	-0.829	-0.806
-0.570	-0.670	-0.866	-0.864	-0.850	-0.829	-0.806
-0.570	-0.670	-0.866	-0.864	-0.850	-0.829	-0.806
-0.570	-0.670	-0.866	-0.864	-0.850	-0.829	-0.806
-0.570	-0.670	-0.866	-0.864	-0.850	-0.829	-0.806

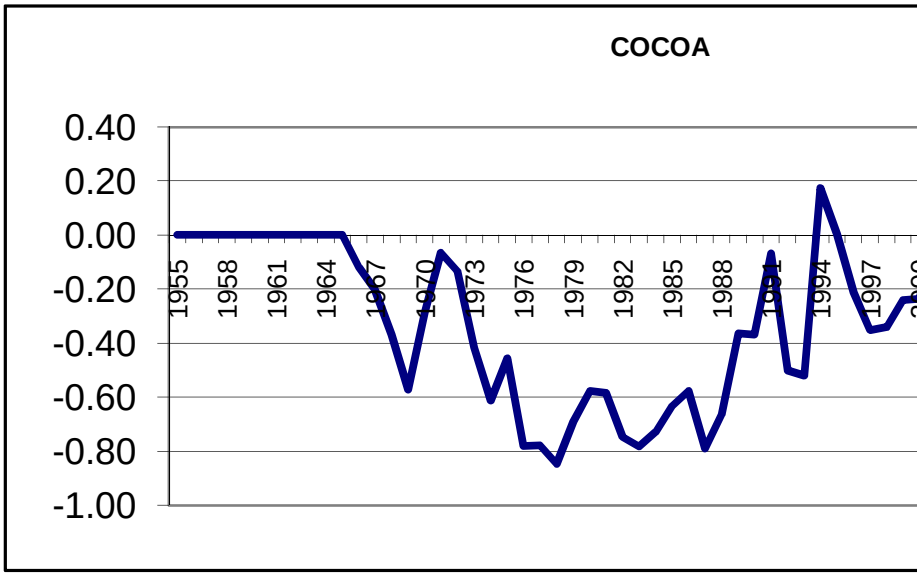
-0.518	-0.631	-0.849	-0.848	-0.832	-0.808	-0.782
X	X	X	X	X	X	X
1980	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**
-0.604	-0.581	-0.829	-0.853	-0.808	-0.677	-0.590
-0.604	-0.581	-0.829	-0.853	-0.808	-0.677	-0.590
-0.604	-0.581	-0.829	-0.853	-0.808	-0.677	-0.590
-0.604	-0.581	-0.829	-0.853	-0.808	-0.677	-0.590
X	X	X	X	X	X	X
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
-0.735	-0.838	-0.820	-0.853	-0.782	-0.846	-0.907
-0.735	-0.838	-0.820	-0.853	-0.782	-0.846	-0.907
-0.735	-0.838	-0.820	-0.853	-0.782	-0.846	-0.907
-0.735	-0.838	-0.820	-0.853	-0.782	-0.846	-0.907
X	X	X	X	X	X	X
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
-0.46	-0.78	-0.78	-0.85	-0.69	-0.58	-0.58
-0.46	-0.78	-0.78	-0.85	-0.69	-0.58	-0.58
-0.46	-0.78	-0.78	-0.85	-0.69	-0.58	-0.58
X	X	X	X	X	X	X
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
-0.236	-0.469	-0.346	-0.566	-0.340	-0.188	-0.383
-0.236	-0.469	-0.346	-0.566	-0.340	-0.188	-0.383
-0.236	-0.469	-0.346	-0.566	-0.340	-0.188	-0.383











1980	1981	1982	1983	1984	1985	1986

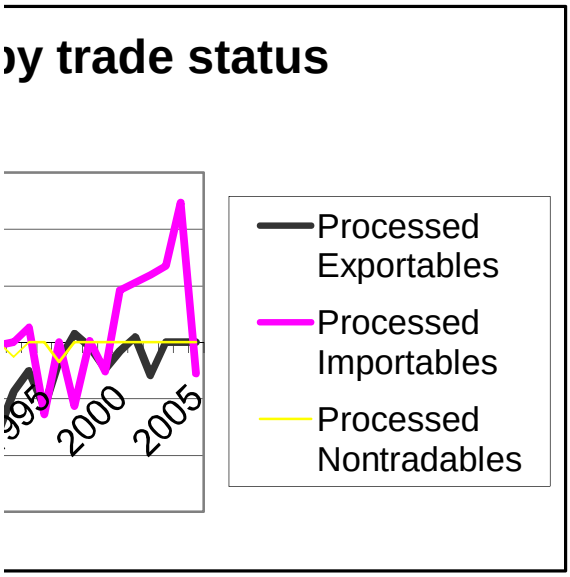
1975	1976	1977	1978	1979	1980	1981
-0.41	-0.71	-0.41	-0.55	-0.62	-0.55	-0.61
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
-0.247	-0.388	-0.238	-0.398	-0.306	-0.301	-0.364

0	0	0	0	0	0	0
-0.323223878	-0.314727544	0.131173308	-0.432829989	-0.066577792	-0.211082239	-0.510041946
0	0	0	0	0	0	0
-0.039045273	-0.043116461	-0.000766007	-0.02983578	-0.010030073	-0.009006962	-0.0024971
0	0	0	0	0	0	0
0	0	0	0	0	0	0

1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
-0.17	-0.24	-0.16	-0.26	-0.17	-0.19	-0.22
-0.16	-0.16	0.07	-0.22	-0.03	-0.11	-0.26
0	0	0	0	0	0	0

0	0	0	0	0	0	0
-0.323223878	-0.314727544	0.131173308	-0.432829989	-0.066577792	-0.211082239	-0.510041946
0	0	0	0	0	0	0
-0.386935142	-0.504967556	-0.00897125	-0.349428053	-0.117469321	-0.105486943	-0.035994238
0	0	0	0	0	0	0
0	0	0	0	0	0	0

1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
-0.28	-0.40	-0.16	-0.37	-0.20	-0.23	-0.24
-0.16	-0.16	0.07	-0.22	-0.03	-0.11	-0.26
0	0	0	0	0	0	0



1955-1971	1972-88	1989-2005
-0.01	-0.01	-0.01

-0.09	-0.15	-0.08
-0.03	-0.05	0.10

1986	1987	1988	1989	1990	1991	1992
270.5806887	266.1242451	267.4851377	270.5680016	271.1315918	246.7843445	242.5607174
303.1632881	232.0514677	214.7353967	213.4444236	255.8348199	213.99514	236.9584312

1991	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**
87.04137766	91.5348273	101.2510652	89.28440526	80.97839449	103.032954	92.59319508
88.27	90.18	102.63	76.83	47.67	51.92	45.61
101.5194334	103.7220113	118.043166	88.37036401	54.83246082	58.61355546	50.01311639

1981	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**
-0.502115263	-0.54246868	-0.525816861	-0.284719883	0.165701454	-0.027521246	-0.222023265
-0.647207453	-0.81249858	-0.798976232	-0.783671544	-0.660075858	-0.624908168	-0.669959413
0	0	0	0	0	0	0
-0.399755425	-0.47456488	-0.430054052	-0.366466182	-0.150951271	-0.14522799	-0.270156543

1976	**1977**	**1978**	**1979**	**1980**	**1981**	**1982**
0.232728502	0.080670197	0.229846811	0.160732562	0.166953033	0.217866069	0.345083753
-0.090849891	0.015872758	-0.093808466	-0.039311369	-0.050981515	-0.090910715	-0.191970322
0	0	0	0	0	0	0
0.020128945	0.012202928	0.019238134	0.016488312	0.013955995	0.017082604	0.018756837

-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268	-0.749762011
-0.517414921	-0.378902218	-0.655809508	-0.475659259	-0.559920553	-0.706012867	-0.655266392

1975	1976	1977	1978	1979	1980	1981
-0.628442327	-0.517414921	-0.378902218	-0.655809508	-0.475659259	-0.559920553	-0.706012867
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
-0.630683831	-0.547967426	-0.206439488	-0.573448458	-0.352321517	-0.216951093	-0.555854452
-0.464890172	-0.447215899	-0.412195463	-0.590353132	-0.455262079	-0.441118207	-0.411270785
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268

1975	1976	1977	1978	1979	1980	1981
-0.628442327	-0.517414921	-0.378902218	-0.655809508	-0.475659259	-0.559920553	-0.706012867

1975	1976	1977	1978	1979	1980	1981
-0.581121602	-0.487304655	-0.099943667	-0.516205241	-0.265403065	-0.11186593	-0.496250119
-0.393078433	-0.373032272	-0.333312094	-0.535378522	-0.38215825	-0.366116271	-0.332263324

1975	1976	1977	1978	1979	1980	1981
-0.628442327	-0.517414921	-0.378902218	-0.655809508	-0.475659259	-0.559920553	-0.706012867
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268
-0.207147285	-0.027005201	0.197731805	-0.251550565	0.040743405	-0.095970634	-0.333005567

1975	1976	1977	1978	1979	1980	1981
-0.630683831	-0.547967426	-0.206439488	-0.573448458	-0.352321517	-0.216951093	-0.555854452
-0.464890172	-0.447215899	-0.412195463	-0.590353132	-0.455262079	-0.441118207	-0.411270785
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268
-1.25610008	-1.117479325	-0.944542426	-1.290268754	-1.065346238	-1.17054877	-1.352949021
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268
-0.730290744	-0.649697282	-0.549152573	-0.750156252	-0.619387348	-0.68055161	-0.786598268
-0.255737388	-0.033339754	0.244113339	-0.310556253	0.0503005	-0.118482264	-0.411117984
-0.207147285	-0.027005201	0.197731805	-0.251550565	0.040743405	-0.095970634	-0.333005567
-0.207147285	-0.027005201	0.197731805	-0.251550565	0.040743405	-0.095970634	-0.333005567
-0.255737388	-0.033339754	0.244113339	-0.310556253	0.0503005	-0.118482264	-0.411117984

1975	1976	1977	1978	1979	1980	1981
-0.628442327	-0.517414921	-0.378902218	-0.655809508	-0.475659259	-0.559920553	-0.706012867

1975	1976	1977	1978	1979	1980	1981
-0.581121602	-0.487304655	-0.099943667	-0.516205241	-0.265403065	-0.11186593	-0.496250119
-0.393078433	-0.373032272	-0.333312094	-0.535378522	-0.38215825	-0.366116271	-0.332263324

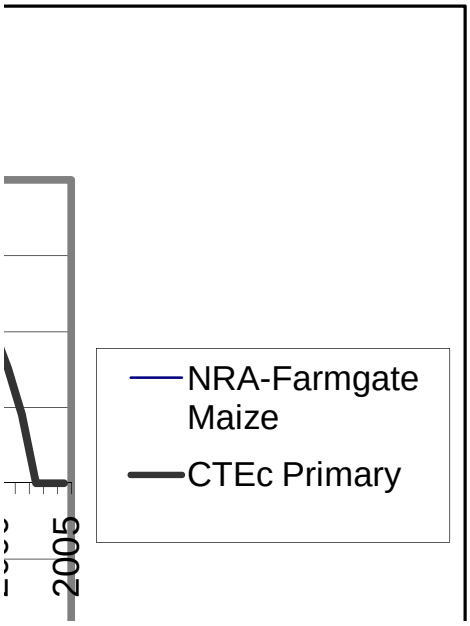
1975	1976	1977	1978	1979	1980	1981
-0.630683831	-0.547967426	-0.206439488	-0.573448458	-0.352321517	-0.216951093	-0.555854452
-0.464890172	-0.447215899	-0.412195463	-0.590353132	-0.455262079	-0.441118207	-0.411270785
-0.628442327	-0.517414921	-0.378902218	-0.655809508	-0.475659259	-0.559920553	-0.706012867
1975	**1976**	**1977**	**1978**	**1979**	**1980**	**1981**
-0.353575884	-0.246435235	0.341188878	-0.53223986	-0.034466477	-0.248016578	-0.627229766
-0.287460068	-0.200353849	0.277389331	-0.432715333	-0.028021526	-0.201639494	-0.509942899
-0.233707373	-0.162889309	0.225519782	-0.351801084	-0.022781728	-0.163934548	-0.414587723
-0.287460068	-0.200353849	0.277389331	-0.432715333	-0.028021526	-0.201639494	-0.509942899
-0.201955277	-0.104396311	0.430676051	-0.364641173	0.088615891	-0.105836234	-0.451136047
-0.287460068	-0.200353849	0.277389331	-0.432715333	-0.028021526	-0.201639494	-0.509942899

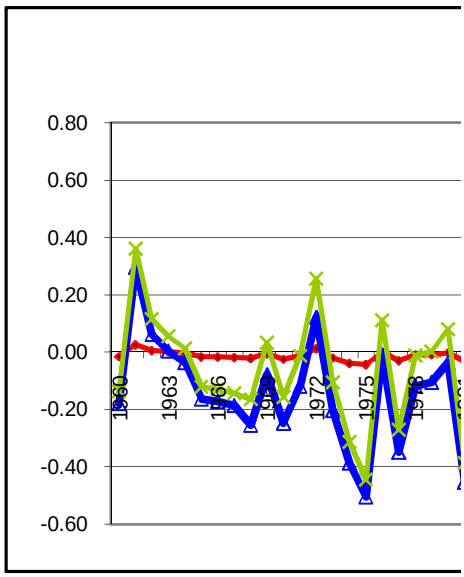
1980	1981	1982	1983	1984	1985	1986
-0.21	-0.51	-0.55	-0.54	-0.30	0.16	-0.03
-0.21	-0.51	-0.55	-0.54	-0.30	0.16	-0.03
-0.12	-0.45	-0.50	-0.48	-0.21	0.30	0.08

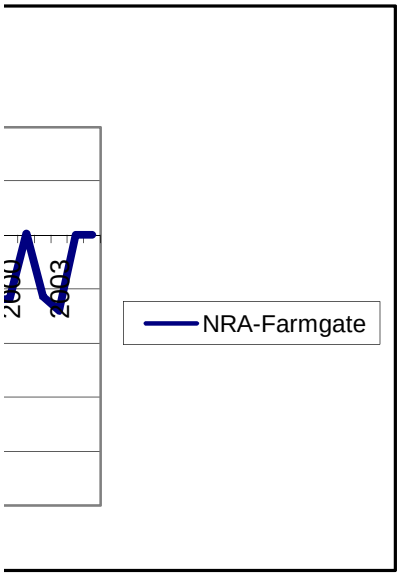
M	H	M	M	M	M	H
1987	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**
-0.23	-0.01	-0.02	-0.03	-0.06	0.00	-0.01
-0.23	-0.01	-0.02	-0.03	-0.06	0.00	-0.01
-0.23	-0.11	-0.16	-0.21	-0.43	-0.02	-0.11
-0.23	-0.01	-0.02	-0.03	-0.06	0.00	-0.01
-0.23	-0.01	-0.02	-0.03	-0.06	0.00	-0.01
-0.14	0.04	-0.03	-0.09	-0.34	0.13	0.04
-0.21	-0.23	-0.16	-0.19	-0.27	-0.23	0.20
X	X	X	X	X	X	X
1987	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**
-0.01	-0.01	-0.01	-0.01	-0.01	0.01	0.02
-0.01	-0.01	-0.01	-0.01	-0.01	0.01	0.01
-0.23	-0.16	-0.20	-0.27	-0.23	0.20	0.40
-0.01	-0.01	-0.01	-0.01	-0.01	0.01	0.01
-0.01	-0.01	-0.01	-0.01	-0.01	0.01	0.02
-0.11	-0.04	-0.08	-0.16	-0.12	0.38	0.68
H	H	X	H	H	X	X
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
0.000	0.000	-0.206	0.000	0.000	0.157	-0.259
0.000	0.000	-0.206	0.000	0.000	0.157	-0.259
0.000	0.000	-0.206	0.000	0.000	0.157	-0.259
0.000	0.000	-0.206	0.000	0.000	0.157	-0.259
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**

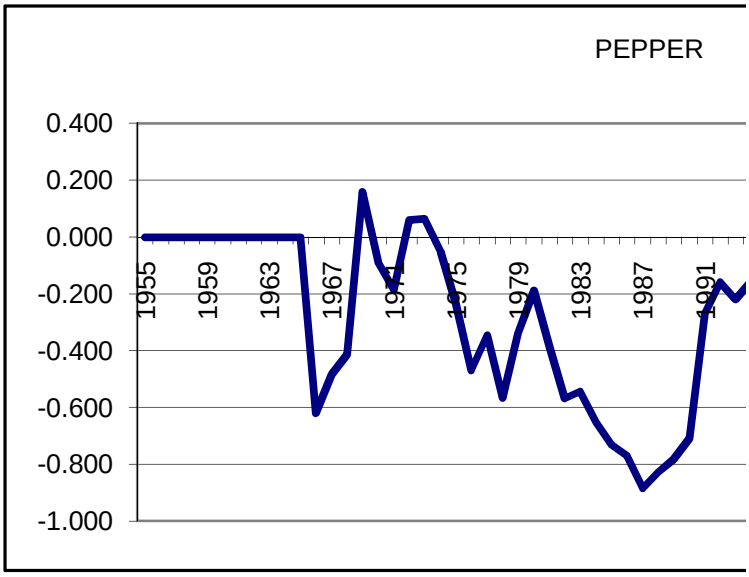
94310	130575	105889	71238	54335	102538	160164
66783	88013	105025	115377	127556	146049	167946
H	H	H	H	H	H	H
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
H	H	H	H	H	H	H
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
X	X	X	X	X	X	X
1987	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**
-0.906	-0.871	-0.849	-0.842	-0.888	-0.728	-0.727
-0.906	-0.871	-0.849	-0.842	-0.888	-0.728	-0.727
-0.906	-0.871	-0.849	-0.842	-0.888	-0.728	-0.727
-0.906	-0.871	-0.849	-0.842	-0.888	-0.728	-0.727
-0.906	-0.871	-0.849	-0.842	-0.888	-0.728	-0.727

-0.895	-0.852	-0.827	-0.819	-0.871	-0.687	-0.686
X	X	X	X	X	X	X
1987	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**
-0.639	-0.581	-0.441	-0.206	-0.311	-0.614	-0.694
-0.639	-0.581	-0.441	-0.206	-0.311	-0.614	-0.694
-0.639	-0.581	-0.441	-0.206	-0.311	-0.614	-0.694
-0.639	-0.581	-0.441	-0.206	-0.311	-0.614	-0.694
X	X	X	X	X	X	X
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
-0.946	-0.956	-0.933	-0.789	-0.797	-0.887	-0.906
-0.946	-0.956	-0.933	-0.789	-0.797	-0.887	-0.906
-0.946	-0.956	-0.933	-0.789	-0.797	-0.887	-0.906
-0.946	-0.956	-0.933	-0.789	-0.797	-0.887	-0.906
X	X	X	X	X	X	X
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
-0.75	-0.78	-0.73	-0.63	-0.58	-0.79	-0.66
-0.75	-0.78	-0.73	-0.63	-0.58	-0.79	-0.66
-0.75	-0.78	-0.73	-0.63	-0.58	-0.79	-0.66
X	X	X	X	X	X	X
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
-0.568	-0.544	-0.652	-0.732	-0.769	-0.885	-0.829
-0.568	-0.544	-0.652	-0.732	-0.769	-0.885	-0.829
-0.568	-0.544	-0.652	-0.732	-0.769	-0.885	-0.829









1987	1988	1989	1990	1991	1992	1993

1982	1983	1984	1985	1986	1987	1988
-0.77	-0.78	-0.67	-0.71	-0.68	-0.61	-0.65
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
-0.454	-0.455	-0.447	-0.348	-0.358	-0.419	-0.414

0	0	0	0	0	0	0
-0.552338778	-0.537548769	-0.297959911	0.164457881	-0.033400087	-0.230605017	0
0	0	0	0	0	0	-0.014736842
-0.031395184	-0.011748825	0.001449619	0.016447473	0	-0.011630815	-0.012379562
0	0	0	0	-0.004386825	0	0
0	0	0	0	0	0	0

1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
-0.30	-0.29	-0.28	-0.27	-0.27	-0.31	-0.29
-0.28	-0.27	-0.15	0.08	-0.02	-0.12	0.00
0	0	0	0	0	0	-0.007368421

0	0	0	0	0	0	0
-0.552338778	-0.537548769	-0.297959911	0.164457881	-0.033400087	-0.230605017	0
0	0	0	0	0	0	-0.105263158
-0.452543193	-0.217428172	0.026827198	0.304383125	0	-0.215244229	-0.229100837
0	0	0	0	-0.081184237	0	0
0	0	0	0	0	0	0

1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
-0.44	-0.36	-0.27	-0.17	-0.27	-0.37	-0.37
-0.28	-0.27	-0.15	0.08	-0.06	-0.12	0.00
0	0	0	0	0	0	-0.052631579

1993	1994	1995	1996	1997	1998	1999
240.5065526	233.3427674	230.3692065	228.3485886	229.7335715	231.6763251	235.3488139
256.4835745	219.9321854	226.5858358	277.9782863	239.3762355	244.9054457	236.3641693

1998	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
93.36975965	90.86669814	100.0152374	99	100	102	103
43.94	39.38	39.90	40	40	40	41
43.94139068	39.38396837	45.89330856	45.58517448	45.90331445	46.2817327	40.59084267

1988	**1989**	**1990**	**1991**			
0.256185372	-0.019788815	-0.026126556	-0.055009493	0.008788662	0.233064362	0.016806681
-0.640755307	-0.513818455	-0.363513201	-0.380590083	-0.528656253	-0.398911548	0.047287787
-0.005295245	0	0	0	n.a.	-0.006794079	n.a.
-0.204056993	-0.138764334	-0.071325716	-0.089483995	n.a.	-0.06219259	n.a.

1983	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**
0.332515487	0.228510358	0.16070689	0.134028028	0.24396007	0.210595557	0.110684428
-0.163767943	-0.078400547	-0.029357659	-0.021732838	-0.088760188	-0.058948233	-0.021069937
0	0	0	0	0	-0.006086284	0
0.024043221	0.019487818	0.016752962	0.014083397	0.020953355	0.012475639	0.00861054

-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.7500321	-0.694020837
-0.622023284	-0.53490309	-0.32924017	0.526692788	-0.404279496	-0.655638473	-0.578476069

1982	1983	1984	1985	1986	1987	1988
-0.655266392	-0.622023284	-0.53490309	-0.32924017	0.526692788	-0.404279496	-0.655638473
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.7500321
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.105263158
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
-0.615329428	-0.54444583	-0.470233755	n.a.	0.567946438	-0.339696809	-0.621112654
n.a.	n.a.	n.a.	n.a.	n.a.	-0.204852993	n.a.
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.7500321
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.105263158

1982	1983	1984	1985	1986	1987	1988
-0.655266392	-0.622023284	-0.53490309	-0.32924017	0.526692788	-0.404279496	-0.655638473

1982	1983	1984	1985	1986	1987	1988
-0.563706638	-0.48331046	-0.399139125	n.a.	0.77836485	-0.251084121	-0.570265972
n.a.	n.a.	n.a.	n.a.	n.a.	-0.098144265	n.a.

1982	1983	1984	1985	1986	1987	1988
-0.655266392	-0.622023284	-0.53490309	-0.32924017	0.526692788	-0.404279496	-0.655638473
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.7500321
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.105263158
-0.250669359	-0.19673238	-0.055379774	0.278308529	1.667060656	0.156557145	-0.085263158

1982	1983	1984	1985	1986	1987	1988
-0.615329428	-0.54444583	-0.470233755	n.a.	0.567946438	-0.339696809	-0.621112654
n.a.	n.a.	n.a.	n.a.	n.a.	-0.204852993	n.a.
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.7500321
-1.289590659	-1.248085728	-1.139313783	-0.882538001	0.186117716	-0.976226652	-0.181052632
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.105263158
-0.749762011	-0.725631237	-0.662391734	-0.513103489	0.108207975	-0.567573635	-0.105263158
-0.309468344	-0.242879481	-0.068370091	0.343590777	2.058099575	0.193280426	-0.105263158
-0.250669359	-0.19673238	-0.055379774	0.278308529	1.667060656	0.156557145	-0.085263158
-0.250669359	-0.19673238	-0.055379774	0.278308529	1.667060656	0.156557145	-0.085263158
-0.309468344	-0.242879481	-0.068370091	0.343590777	2.058099575	0.193280426	-0.105263158

1982	1983	1984	1985	1986	1987	1988
-0.655266392	-0.622023284	-0.53490309	-0.32924017	0.526692788	-0.404279496	-0.655638473

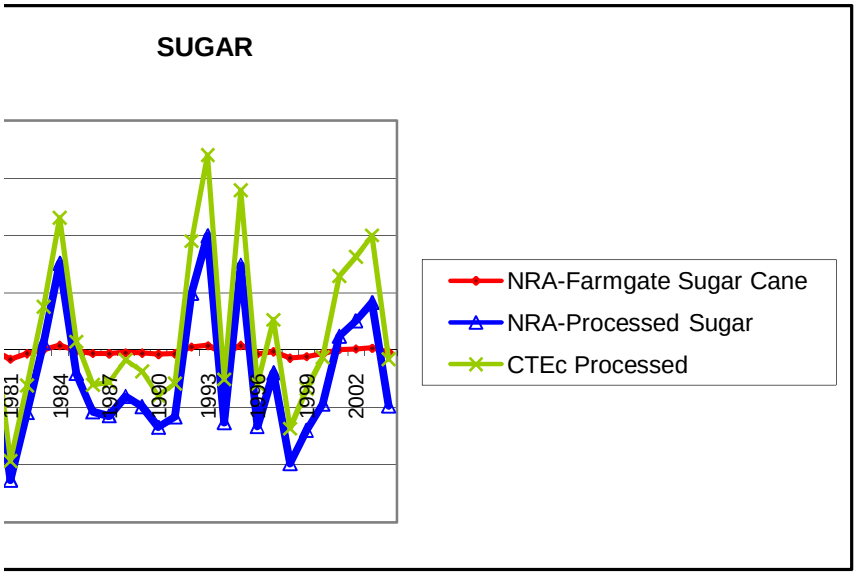
1982	1983	1984	1985	1986	1987	1988
-0.563706638	-0.48331046	-0.399139125	n.a.	0.77836485	-0.251084121	-0.570265972
n.a.	n.a.	n.a.	n.a.	n.a.	-0.098144265	n.a.

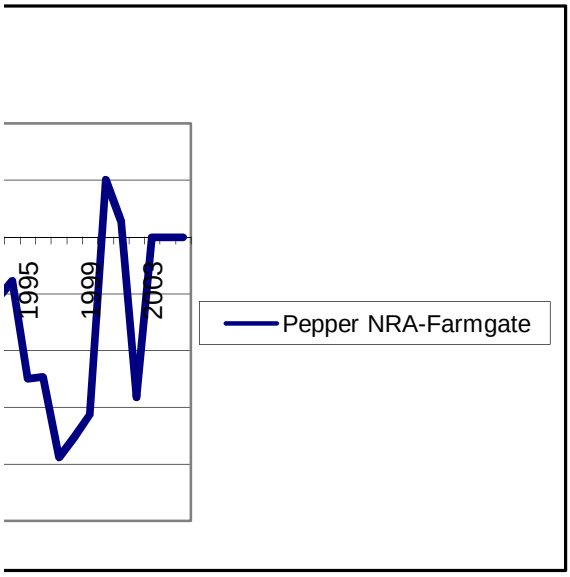
1982	1983	1984	1985	1986	1987	1988
-0.615329428	-0.54444583	-0.470233755	n.a.	0.567946438	-0.339696809	-0.621112654
n.a.	n.a.	n.a.	n.a.	n.a.	-0.204852993	n.a.
-0.655266392	-0.622023284	-0.53490309	-0.32924017	0.526692788	-0.404279496	-0.655638473
1982	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**
-0.679265386	-0.599800613	-0.276969521	0.34640534	1.092822424	0.032062851	-0.129473684
-0.552248281	-0.487642775	-0.225178472	0.281630357	0.888473515	0.026067358	-0.105263158
-0.448982342	-0.396457541	-0.183071929	0.22896777	0.722336191	0.021192974	-0.085579803
-0.552248281	-0.487642775	-0.225178472	0.281630357	0.888473515	0.026067358	-0.105263158
-0.498518075	-0.426159908	-0.132199889	0.435426	1.115090337	0.149195441	0.044736842
-0.552248281	-0.487642775	-0.225178472	0.281630357	0.888473515	0.026067358	-0.105263158

1987	1988	1989	1990	1991	1992	1993
-0.23	-0.01	-0.02	-0.03	-0.06	0.00	-0.01
-0.23	-0.11	-0.16	-0.21	-0.43	-0.02	-0.11
-0.14	0.04	-0.03	-0.09	-0.34	0.13	0.04

M	M	H	M	M	M	M
1994	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**
0.01	-0.04	-0.02	-0.03	0.01	0.03	0.09
0.01	-0.04	-0.02	-0.03	0.01	0.03	0.09
0.10	-0.26	-0.14	-0.19	0.09	0.19	0.65
0.01	-0.04	-0.02	-0.03	0.01	0.03	0.09
0.01	-0.04	-0.02	-0.03	0.01	0.03	0.09
0.32	-0.11	0.06	-0.03	0.31	0.43	0.98
0.39	-0.25	0.29	-0.26	-0.08	-0.39	-0.27
M	X	M	M	M	M	M
1994	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**
-0.01	0.02	-0.01	0.00	-0.03	-0.02	-0.01
-0.01	0.01	-0.01	0.00	-0.02	-0.02	-0.01
-0.25	0.30	-0.27	-0.08	-0.40	-0.28	-0.19
-0.01	0.01	-0.01	0.00	-0.02	-0.02	-0.01
-0.01	0.02	-0.01	0.00	-0.03	-0.02	-0.01
-0.10	0.56	-0.12	0.11	-0.27	-0.13	-0.03
X	X	X	M	X	X	X
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
-0.230	0.403	0.532	0.140	0.376	-0.018	-0.295
-0.230	0.403	0.532	0.140	0.376	-0.018	-0.295
-0.230	0.403	0.532	0.140	0.376	-0.018	-0.295
-0.230	0.403	0.532	0.140	0.376	-0.018	-0.295
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
157296	152219	200048	197207	198283	334796	534594
568594	593113	1066400	920200	949440	1143800	1310640
H	H	H	H	H	H	H
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
H	H	H	H	H	H	H
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
X	X	X	X	X	X	X
1994	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**
-0.706	-0.687	-0.492	0.091	-0.049	-0.286	-0.091
-0.706	-0.687	-0.492	0.091	-0.049	-0.286	-0.091
-0.706	-0.687	-0.492	0.091	-0.049	-0.286	-0.091
-0.706	-0.687	-0.492	0.091	-0.049	-0.286	-0.091
-0.706	-0.687	-0.492	0.091	-0.049	-0.286	-0.091

-0.647	-0.624	-0.390	0.309	0.141	-0.144	0.091
X	X	X	X	X	X	X
1994	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**
0.382	-0.312	-0.157	-0.198	0.072	-0.038	-0.273
0.382	-0.312	-0.157	-0.198	0.072	-0.038	-0.273
0.382	-0.312	-0.157	-0.198	0.072	-0.038	-0.273
0.382	-0.312	-0.157	-0.198	0.072	-0.038	-0.273
X	X	X	X	X	X	X
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
-0.864	-0.860	-0.817	-0.684	-0.453	-0.321	-0.563
-0.864	-0.860	-0.817	-0.684	-0.453	-0.321	-0.563
-0.864	-0.860	-0.817	-0.684	-0.453	-0.321	-0.563
-0.864	-0.860	-0.817	-0.684	-0.453	-0.321	-0.563
X	X	X	X	X	X	X
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
-0.36	-0.37	-0.07	-0.50	-0.52	0.17	0.00
-0.36	-0.37	-0.07	-0.50	-0.52	0.17	0.00
-0.36	-0.37	-0.07	-0.50	-0.52	0.17	0.00
X	X	X	X	X	X	X
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
-0.783	-0.709	-0.269	-0.158	-0.219	-0.154	-0.500
-0.783	-0.709	-0.269	-0.158	-0.219	-0.154	-0.500
-0.783	-0.709	-0.269	-0.158	-0.219	-0.154	-0.500





1994	1995	1996	1997	1998	1999	2000

1989	1990	1991	1992	1993	1994	1995
-0.54	-0.35	-0.19	-0.49	-0.30	0.01	-0.33
0.00	0.00	0.00	0.14	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
-0.356	-0.262	-0.189	-0.256	-0.224	-0.061	-0.240

0	0	0	0	0	0	0
-0.022380785	-0.029458462	-0.060034924	-0.003032495	0	0.014461853	-0.036352261
0	0	0	0	-0.014736842	0	0
-0.008714905	-0.010600041	-0.014542993	-0.012577428	0.01078316	0.015747178	0
0	0	0	0	0	0	-0.01207164
0	0	0	0	0	0	0

1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
-0.29	-0.28	-0.30	-0.25	-0.24	-0.23	-0.23
-0.01	-0.01	-0.03	0.00	0.00	0.01	-0.02
0	0	0	0	-0.007368421	0	0

0	0	0	0	0	0	0
-0.159862747	-0.210417583	-0.428820888	-0.021660682	0	0.103298952	-0.259659009
0	0	0	0	-0.105263158	0	0
-0.161281307	-0.196168345	-0.269138098	-0.232762608	0.199557215	0.39996687	0
0	0	0	0	0	0	-0.252260555
0	0	0	0	0	0	0

1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
-0.34	-0.35	-0.39	-0.32	-0.18	-0.10	-0.23
-0.08	-0.11	-0.21	-0.01	0.00	0.05	-0.26
0	0	0	0	-0.052631579	0	0

2000	2001	2002	2003	2004
239.4322739	246.610135	209.2928015	223.5046682	228.9066515
239.4322739	271.7661473	256.4896658	310.5760284	240.9350465

2005	**2006**
104	104
41	41
40.92683599	41.10063327

-0.031361886	0.240781147	-0.02248897	0.012640808	0.023504858	0.093179214	0.086803269
-0.359616175	-0.189520655	-0.314554009	0.01306496	-0.050103284	-0.098419309	-0.268157717
n.a.	n.a.	0	0	0	0	0
n.a.	n.a.	-0.047290636	0.005315077	0.001867916	0.020881268	-0.011859099

1990	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**
0.128302128	0.115509569	0.156883563	0.182369218	0.167044518	0.114618391	0.187288306
-0.033367544	-0.041935533	-0.040800609	-0.03493133	-0.036699819	-0.040266061	-0.038524
0	0	0	-0.003566542	0	0	-0.010277485
0.010647431	0.00290914	0.013313746	0.011803311	0.011750048	-0.00140526	0.005422587

-0.572351428	-0.731131578	-0.539470994	-0.313729465	-0.480649341	-0.651502813	-0.629931408
-0.410861494	-0.629600679	-0.365564652	-0.05457793	-0.284530591	-0.519902262	-0.490184999

1989	1990	1991	1992	1993	1994	1995
-0.578476069	-0.410861494	-0.629600679	-0.365564652	-0.05457793	-0.284530591	-0.519902262
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.313729465	-0.480649341	-0.651502813
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.105263158	-0.480649341	-0.651502813
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
-0.406851104	-0.608398389	-0.670968245	-0.290327008	-0.162604466	-0.363598419	0.324685424
0.172065955	-0.25411419	-0.3993172	-0.211088513	0.040363092	-0.261448136	-0.337212109
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.313729465	-0.480649341	-0.651502813
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.105263158	-0.480649341	-0.651502813

1989	1990	1991	1992	1993	1994	1995
-0.578476069	-0.410861494	-0.629600679	-0.365564652	-0.05457793	-0.284530591	-0.519902262

1989	1990	1991	1992	1993	1994	1995
-0.327250523	-0.555845453	-0.626812184	-0.195088893	-0.050225985	-0.278193327	0.502458207
0.329357207	-0.154016315	-0.318705568	-0.105216591	0.179979819	-0.162334475	-0.248265975

1989	1990	1991	1992	1993	1994	1995
-0.578476069	-0.410861494	-0.629600679	-0.365564652	-0.05457793	-0.284530591	-0.519902262
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.313729465	-0.480649341	-0.651502813
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.105263158	-0.480649341	-0.651502813
-0.126076978	0.145877847	-0.678729152	-0.17883415	-0.145263158	-0.025413715	-0.471038969

1989	1990	1991	1992	1993	1994	1995
-0.406851104	-0.608398389	-0.670968245	-0.290327008	-0.162604466	-0.363598419	0.324685424
0.172065955	-0.25411419	-0.3993172	-0.211088513	0.040363092	-0.261448136	-0.337212109
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.313729465	-0.480649341	-0.651502813
-1.193715839	-0.984444456	-1.257546314	-0.92789011	-0.181052632	-0.826716867	-1.120584838
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.105263158	-0.480649341	-0.651502813
-0.694020837	-0.572351428	-0.731131578	-0.539470994	-0.105263158	-0.480649341	-0.651502813
-0.15565059	0.180096107	-0.491832718	-0.129589964	-0.105263158	-0.018415735	-0.341332586
-0.126076978	0.145877847	-0.678729152	-0.17883415	-0.145263158	-0.025413715	-0.471038969
-0.126076978	0.145877847	-0.678729152	-0.17883415	-0.145263158	-0.025413715	-0.471038969
-0.15565059	0.180096107	-0.491832718	-0.129589964	-0.105263158	-0.018415735	-0.341332586

1989	1990	1991	1992	1993	1994	1995
-0.578476069	-0.410861494	-0.629600679	-0.365564652	-0.05457793	-0.284530591	-0.519902262

1989	1990	1991	1992	1993	1994	1995
-0.327250523	-0.555845453	-0.626812184	-0.195088893	-0.050225985	-0.278193327	0.502458207
0.329357207	-0.154016315	-0.318705568	-0.105216591	0.179979819	-0.162334475	-0.248265975

1989	1990	1991	1992	1993	1994	1995
-0.406851104	-0.608398389	-0.670968245	-0.290327008	-0.162604466	-0.363598419	0.324685424
0.172065955	-0.25411419	-0.3993172	-0.211088513	0.040363092	-0.261448136	-0.337212109
-0.578476069	-0.410861494	-0.629600679	-0.365564652	-0.05457793	-0.284530591	-0.519902262
1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**
-0.207302044	0.171688196	-0.37154764	-0.123156319	-0.075789474	-0.0469237	-0.268349091
-0.168538247	0.1395839	-0.516038389	-0.171050442	-0.105263158	-0.065171806	-0.372707071
-0.137022965	0.113482845	-0.716719985	-0.237570059	-0.14619883	-0.090516397	-0.517648709
-0.168538247	0.1395839	-0.516038389	-0.171050442	-0.105263158	-0.065171806	-0.372707071
-0.043818985	0.310521484	-0.443444147	-0.046708009	0.044736842	0.121793833	-0.247248485
-0.168538247	0.1395839	-0.516038389	-0.171050442	-0.105263158	-0.065171806	-0.372707071

1994	1995	1996	1997	1998	1999	2000
0.01	-0.04	-0.02	-0.03	0.01	0.03	0.09
0.10	-0.26	-0.14	-0.19	0.09	0.19	0.65
0.32	-0.11	0.06	-0.03	0.31	0.43	0.98

M	M	M	M	M
2001	**2002**	**2003**	**2004**	**2005**
0.09	0.06	0.06	0.11	0.00
0.09	0.06	0.06	0.11	0.00
0.61	0.43	0.44	0.82	-0.03
0.09	0.06	0.06	0.11	0.00
0.09	0.06	0.06	0.11	0.00
0.93	0.72	0.72	1.19	0.17
-0.18	0.05	0.10	0.16	-0.19

HDI i

1975	1980
0.397	0.431

M	M	M	M
2001	**2002**	**2003**	**2004**
0.00	0.00	0.01	-0.01
0.00	0.00	0.01	-0.01
0.05	0.10	0.17	-0.19
0.00	0.00	0.01	-0.01
0.00	0.00	0.01	-0.01
0.26	0.32	0.40	-0.03

H	X	H	H	M	M	M
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
0.000	-0.411	0.000	0.000	0.401	0.304	0.180
0.000	-0.411	0.000	0.000	0.401	0.304	0.180
0.000	-0.411	0.000	0.000	0.401	0.304	0.180
0.000	-0.411	0.000	0.000	0.401	0.304	0.180
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**

684170	578403	466345	476388	579097	570828	655511
1455120	1185080	928800	1066400	1673560	1575520	1591000

H	H	H	H	H	H	H
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00

H	H	H	H	H	H	H
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000

X	X
2001	**2002**
0.056	-0.351
0.056	-0.351
0.056	-0.351
0.056	-0.351
0.056	-0.351

0.267	-0.221					
X	X	X	n.a.	n.a.		
2001	**2002**	**2003**	**2004**	**2005**		
-0.179	-0.457	-0.595	n.a.	n.a.		
-0.179	-0.457	-0.595	n.a.	n.a.		
-0.179	-0.457	-0.595	n.a.	n.a.		
-0.179	-0.457	-0.595	n.a.	n.a.		
X	X	X	X	X	X	X
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
-0.610	-0.738	0.306	0.236	-0.026	-0.552	0.018
-0.610	-0.738	0.306	0.236	-0.026	-0.552	0.018
-0.610	-0.738	0.306	0.236	-0.026	-0.552	0.018
-0.610	-0.738	0.306	0.236	-0.026	-0.552	0.018
X	X	X	X	X	X	X
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
-0.21	-0.35	-0.34	-0.24	-0.24	0.01	-0.23
-0.21	-0.35	-0.34	-0.24	-0.24	0.01	-0.23
-0.21	-0.35	-0.34	-0.24	-0.24	0.01	-0.23
X	X	X	X	X	X	X
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
-0.493	-0.777	-0.704	-0.625	0.202	0.056	-0.565
-0.493	-0.777	-0.704	-0.625	0.202	0.056	-0.565
-0.493	-0.777	-0.704	-0.625	0.202	0.056	-0.565

2001	2002	2003	2004	2005

1996	1997	1998	1999	2000	2001	2002
-0.37	-0.50	-0.17	-0.17	-0.08	-0.17	-0.31
0.00	0.00	0.00	0.00	0.40	0.30	0.18
0.00	0.00	0.00	0.00	0.00	0.00	0.00
-0.197	-0.243	-0.071	-0.096	0.004	-0.024	-0.134

0	0	0	0	0	0	0
0	-0.026368557	0.012746169	0.026505039	0.09041674	0.08562558	0.060097253
-0.019649123	0	0	0	0	0	0
0.016203178	0	0	0	0	0	0
0	-0.013756688	-0.004922492	-0.027744737	-0.022247998	-0.012363367	0.001983894
0	0	0	0	0	0	0

1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
-0.16	0.03	-0.02	-0.10	-0.03	0.02	-0.12
0.00	-0.02	0.00	0.00	0.03	0.04	0.03
-0.009824561	0	0	0	0	0	0

0	0	0	0	0	0	0
0	-0.188346837	0.091044066	0.189321709	0.645833858	0.611611288	0.429266095
-0.140350877	0	0	0	0	0	0
0.296847279	0	0	0	0	0	0
0	-0.265469248	-0.079120783	-0.395343054	-0.279050127	-0.18814162	0.048725195
0	0	0	0	0	0	0

1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
-0.07	0.03	-0.02	-0.10	-0.03	0.02	-0.12
0.00	-0.23	0.01	-0.10	0.18	0.21	0.24
-0.070175439	0	0	0	0	0	0

0.06242345	0.057350024	0.114597135	-0.002168576
-0.255522834	-0.41523987	0	0
0	0	0	0
-0.026541546	-0.000795022	0.068543111	-0.001115144

1997	1998	1999	2000	2001	2002	2003
0.121371503	0.112154013	0.115319564	0.150462439	0.146696586	0.129477999	0.135158879
-0.031659191	-5.94503E-05	-0.001001393	-0.000580284	0.000379544	-0.007139031	0
0	0	0	0	0	0	0
0.005611568	0.01558355	0.015552994	0.029911447	0.028902734	0.018611641	0.024818386

-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965	-0.455909734
-0.472128258	-0.326179267	-0.265483722	-0.146485144	-0.142088475	-0.260959887	-0.250448739

1996	1997	1998	1999	2000	2001	2002
-0.490184999	-0.472128258	-0.326179267	-0.265483722	-0.146485144	-0.142088475	-0.260959887
-0.629931408	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965
-0.140350877	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
-0.51673049	-0.357232676	-0.158957552	-0.132209291	0.026557316	-0.16085942	-0.021388487
-0.233076977	-0.255625026	-0.0543231	0.735581419	-0.276767918	-0.183324516	-0.30023306
-0.629931408	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965
-0.140350877	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965

1996	1997	1998	1999	2000	2001	2002
-0.490184999	-0.472128258	-0.326179267	-0.265483722	-0.146485144	-0.142088475	-0.260959887

1996	1997	1998	1999	2000	2001	2002
-0.451875721	-0.270973301	-0.046089655	-0.015751778	0.164321307	-0.048246754	0.109941178
-0.130155908	-0.155729905	0.07258674	0.968496445	-0.179710172	-0.073726666	-0.206324337

1996	1997	1998	1999	2000	2001	2002
-0.490184999	-0.472128258	-0.326179267	-0.265483722	-0.146485144	-0.142088475	-0.260959887
-0.629931408	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965
-0.140350877	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965
-0.193684211	-0.380589246	-0.104266458	0.010647403	0.235945425	0.244269564	0.019212305

1996	1997	1998	1999	2000	2001	2002
-0.51673049	-0.357232676	-0.158957552	-0.132209291	0.026557316	-0.16085942	-0.021388487
-0.233076977	-0.255625026	-0.0543231	0.735581419	-0.276767918	-0.183324516	-0.30023306
-0.629931408	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965
-0.241403509	-1.060937688	-0.878716379	-0.802936331	-0.65436335	-0.648873989	-0.797288199
-0.140350877	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965
-0.140350877	-0.616824237	-0.510881616	-0.466823448	-0.380443808	-0.377252319	-0.46353965
-0.140350877	-0.275789309	-0.075555404	0.007715509	0.170974946	0.17700693	0.01392196
-0.193684211	-0.380589246	-0.104266458	0.010647403	0.235945425	0.244269564	0.019212305
-0.193684211	-0.380589246	-0.104266458	0.010647403	0.235945425	0.244269564	0.019212305
-0.140350877	-0.275789309	-0.075555404	0.007715509	0.170974946	0.17700693	0.01392196

1996	1997	1998	1999	2000	2001	2002
-0.490184999	-0.472128258	-0.326179267	-0.265483722	-0.146485144	-0.142088475	-0.260959887

1996	1997	1998	1999	2000	2001	2002
-0.451875721	-0.270973301	-0.046089655	-0.015751778	0.164321307	-0.048246754	0.109941178
-0.130155908	-0.155729905	0.07258674	0.968496445	-0.179710172	-0.073726666	-0.206324337

1996	1997	1998	1999	2000	2001	2002
-0.51673049	-0.357232676	-0.158957552	-0.132209291	0.026557316	-0.16085942	-0.021388487
-0.233076977	-0.255625026	-0.0543231	0.735581419	-0.276767918	-0.183324516	-0.30023306
-0.490184999	-0.472128258	-0.326179267	-0.265483722	-0.146485144	-0.142088475	-0.260959887
1996	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**
-0.101052632	-0.224844533	-0.054399891	0.005555167	0.123101961	0.12744499	0.010023811
-0.140350877	-0.312284074	-0.075555404	0.007715509	0.170974946	0.17700693	0.01392196
-0.194931774	-0.43372788	-0.104938062	0.010715985	0.237465202	0.245842959	0.019336056
-0.140350877	-0.312284074	-0.075555404	0.007715509	0.170974946	0.17700693	0.01392196
0.059649123	-0.174740889	0.109333515	0.209258611	0.405169935	0.412408316	0.216706352
-0.140350877	-0.312284074	-0.075555404	0.007715509	0.170974946	0.17700693	0.01392196

2001	2002	2003	2004	2005
0.09	0.06	0.06	0.11	0.00
0.61	0.43	0.44	0.82	-0.03
0.93	0.72	0.72	1.19	0.17

ndex for Madagascar

1985	1990	1995	2001
0.424	0.431	0.438	0.468

n.a.	n.a.	n.a.
2003	**2004**	**2005**
n.a.	n.a.	n.a.
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
2003	**2004**	**2005**
630578	877945	830432
n.a.	n.a.	n.a.
n.a.	n.a.	n.a.
2003	**2004**	**2005**
n.a.	n.a.	n.a.
n.a.	n.a.	n.a.
H	H	H
2003	**2004**	**2005**
0.000	0.000	0.000
0.000	0.000	0.000

n.a.	n.a.	n.a.
2003	**2004**	**2005**

X	n.a.	n.a.
2003	**2004**	**2005**
-0.28	n.a.	n.a.
-0.28	n.a.	n.a.
-0.28	n.a.	n.a.

n.a.	n.a.	n.a.
2003	**2004**	**2005**
n.a.	n.a.	n.a.
n.a.	n.a.	n.a.
n.a.	n.a.	n.a.

2003	2004	2005
n.a.	n.a.	n.a.
0.00	0.00	0.00
0.00	0.00	0.00
#REF!	#REF!	#REF!

0	0	0
0.060956071	0.114948199	-0.004016464
0	0	0
0	0	0
0.004206256	0.006770601	-0.007901656
0	0	0

2003	**2004**	**2005**
#REF!	#REF!	#REF!
0.03	0.06	-0.01
0	0	0

0	0	0
0.43540051	0.821058561	-0.028689029
0	0	0
0	0	0
0.103307244	0.166288541	-0.194067668
0	0	0

2003	**2004**	**2005**
#REF!	#REF!	#REF!
0.27	0.49	-0.11
0	0	0

2004	2005
0.216224928	0.13288198
0	0
0	0
0.034314955	0.013917469

0.367857697 0.187568199
0.884392216 0.636021257

2003	2004	2005
-0.250448739	0.884392216	0.636021257
-0.455909734	0.367857697	0.187568199
-0.455909734	0.367857697	0.187568199
2003	**2004**	**2005**
-0.11155974	1.219604832	2.031209181
-0.407660225	0.757436704	2.953613362
-0.455909734	0.367857697	0.187568199
-0.455909734	0.367857697	0.187568199

2003	2004	2005
-0.250448739	0.884392216	0.636021257

2003	2004	2005
0.007668943	1.517475801	2.437997453
-0.328168228	0.99328471	3.484188275

2003	2004	2005
-0.250448739	0.884392216	0.636021257
-0.455909734	0.367857697	0.187568199
-0.455909734	0.367857697	0.187568199
0.039112886	2.187688315	1.717451727

2003	2004	2005
-0.11155974	1.219604832	2.031209181
-0.407660225	0.757436704	2.953613362
-0.455909734	0.367857697	0.187568199
-0.784164743	0.632715239	0.322617302
-0.455909734	0.367857697	0.187568199
-0.455909734	0.367857697	0.187568199
0.028342671	1.585281388	1.244530237
0.039112886	2.187688315	1.717451727
0.039112886	2.187688315	1.717451727
0.028342671	1.585281388	1.244530237

2003	2004	2005
-0.250448739	0.884392216	0.636021257

2003	2004	2005
0.007668943	1.517475801	2.437997453
-0.328168228	0.99328471	3.484188275

2003	2004	2005
-0.11155974	1.219604832	2.031209181
-0.407660225	0.757436704	2.953613362
-0.250448739	0.884392216	0.636021257

2003	2004	2005
0.020406723	1.141402599	0.896061771
0.028342671	1.585281388	1.244530237
0.039364821	2.201779706	1.728514218
0.028342671	1.585281388	1.244530237
0.234011206	2.102337666	1.693436284
0.028342671	1.585281388	1.244530237

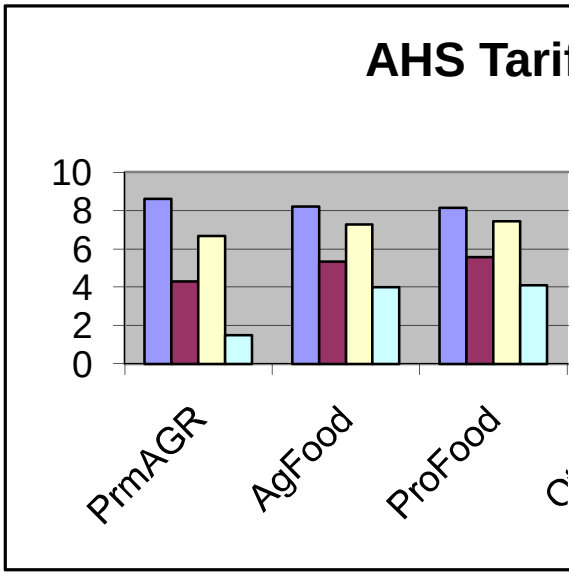
MINI MACS, MADAGASCAR 1999 (milliards de FMG)

		Activites			Produits			Facteurs			Institutions				RDM	CAP		
		A1	A2	A3	P1	P2	P3	L	K	T	Menages					Depenses	**Total**	Recettes-
		Ag	Indust	Services	P-Ag	P-Ind	P-Serv	Main d'O	Capitaux	Terre	M-Urb	M-Rur	Ent.	Govt	RDM	Capitaux	**recettes**	depenses
	Activites																	
A1	Agriculture				9,132												**9,132**	0
A2	Indust					15,675											**15,675**	0
A3	Services						19,229										**19,229**	0
	Produits																	
P1	P-Ag	679	4,432	310							1,808	2,758		0	**1,589**	818.0	**12,395**	1
P2	P-Indust	979	5,843	2,669							4,190	7,565		0	**2,072**	1,577.2	**24,894**	-1
P3	P-Serv	1,110	2,179	4,261	3,262	4,305	542				2,427	1,833		1,836	**2,126**	482.2	**24,362**	1
	Facteurs																	
L	Main d'oeuvre	2,124	1,617	6,338													**10,078**	0
K	Capital	778	1,546	5,331													**7,654**	0
T	Terre	3,464	0	0													**3,464**	-1
	Menages																	0
M-Urb	Men-Urbains							5,164	305	306			2,995	228	402		**9,401**	0
M-Rur	Men-Ruraux							4,914	721	3,159			3,866	34	1,035		**13,728**	0
N	Entreprises								6,628					440	0		**7,068**	0
G	Govt														172		**2,840**	0
	Taxes directes										184	94	207					
	Biens et services	0	59	320	0	578	84											
	Taxes importation				0	542	601											
	Taxes exportation				0	0	0											
RDM	RDM				0	3,795	3,906							325			**8,026**	-1
CAP	Epargne										791	1,478	0	-23	631		**2,878**	0
	Total depenses	**9,132**	**15,675**	**19,229**	**12,394**	**24,895**	**24,361**	**10,079**	**7,654**	**3,465**	**9,400**	**13,728**	**7,068**	**2,839**	**8,027**	**2,877**	**170,822**	170,822
	check	0	0	0	-1	1	-1	0	0	1	0	0	0	0	1	0		

	milliards de FMG	milliards de $ USA
PIB, cout facteurs	21,197	2.47
+ taxes indirectes	2,183	0.25
= PIB, prix du marche	23,379	2.72
Con. intermed.	22,460	2.62
Marges commerciales	8,109	0.94
Cons. finale des mena	20,581	2.40
Depenses govt	2,862	0.33
Exportations	5,787	0.67
Impots directs	485	0.06
Importations	7,701	0.90

AHS TARIFF				
Sector	**1995**		**2001**	
	simp_avg	weig_avg	simp_avg	weig_avg
PrmAGR	8.61	4.29	6.66	1.5
AgFood	8.21	5.33	7.28	4.01
ProFood	8.14	5.56	7.42	4.11
OthPrm	5.94	1.33	4.77	1.04
Manufa	7.63	6.07	5.27	3.99

AHS TARII Sector
1995 simp_avg
weig_avg
2001 simp_avg
weig_avg



Madagascar -

		1988	1989	1990	1991	1992	1993	1994
Primary agriculture	PDR							
	WHT							
	GRO							
	V_F							
	OSD							
	C_B							
	PFB							
	OCR							
	CTL							
	OAP							
	WOL							
	Primary agricultur e							
l food	CMT							
	OMT							
	VOL							
	MIL							

Processed	PCR	
	SGR	
	OFD	
	B_T	
Processed food		
Non primary agriculture		

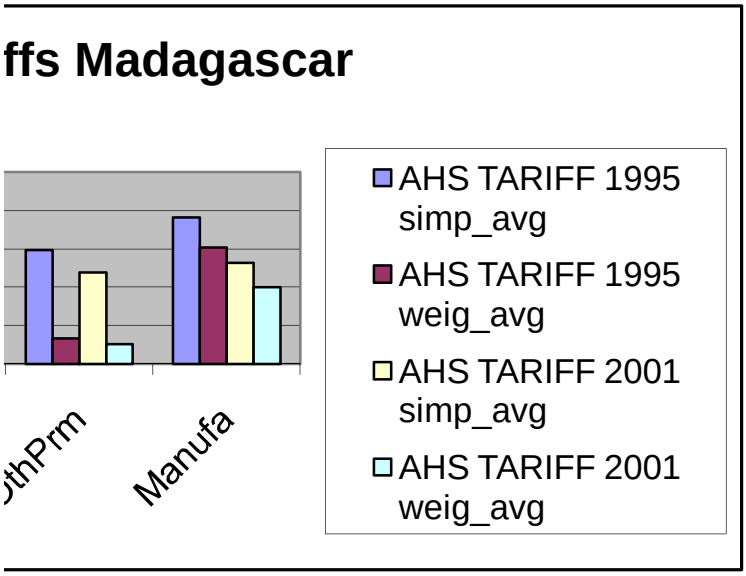
Source: UNCTAD-TRAINS, compiled through WITS. Avail

DEFINITION OF SECTORS

pdr	Paddy rice
wht	Wheat
gro	Cereal grains nec
v_f	Vegetables, fruit, nuts
osd	Oil seeds
c_b	Sugar cane, sugar beet
pfb	Plant-based fibers
ocr	Crops nec
ctl	Cattle,sheep,goats,horses
oap	Animal products nec
rmk	Raw milk
wol	Wool, silk-worm cocoons
cmt	Meat: cattle,sheep,goats,horse
omt	Meat products nec
vol	Vegetable oils and fats
mil	Dairy products
pcr	Processed rice
sgr	Sugar
ofd	Food products nec
b_t	Beverages and tobacco products

For more description on concordances between GTAP sectors (GSC) and standard classifications 1) GSC2 - CPC, and 2) GSC2 - ISIC Rev. 3 please see https://www.gtap.agecon.purdue.edu/databases/contribute/concordinfo.asp

PrmAGR	AgFood	ProFood	OthPrm	Manufa
8.61	8.21	8.14	5.94	7.63
4.29	5.33	5.56	1.33	6.07
6.66	7.28	7.42	4.77	5.27
1.5	4.01	4.11	1.04	3.99



Trade weighted applied tarifl

1995	1996	1997	1998	1999	2000	2001	2002	2003
0.0						0.0		
5.0						0.0		
5.0						4.9		
9.5						9.6		
4.4						0.0		
0.0						0.0		
1.6						3.3		
0.0						0.0		
0.5						0.4		
0.0						0.0		
4.3						**3.0**		
0.0						1.2		
8.3						8.9		
12.8						8.6		
5.8						4.8		

0.0	0.0
15.0	12.5
3.6	3.5
3.5	6.1
5.6	**4.1**
5.2	**3.4**

able at http://wits.worldbank.org. Accessed: June 2006 (sent by Damiano Sandri)

2004	2005
	0.0
	0.1
	24.8
	10.0
	4.2
	16.2
	8.8
	6.7
	5.1
	5.1
	23.8
	2.9
	16.5

	17.9
	13.0
	12.0
	10.6
	11.4
	5.2