

AFRI	Model	Drive:\Directory\-----	Begin: 2005	Base: 2005	End: 2005	Non	Supply	S.shift ON	
Africa work	name	Time Periods for Data and Model-----	competit.	share	(1) or OFF				
Sheet	Description.....	ECOWA? Africa	Tariffs	Exports	Imports	index	share	(0.000001)	
USA	-	United States	2005	2005	2005	0.0	0.7	1.000000	
EUUN	-	European Union (25)	2005	2005	2005	0.0	0.7	1.000000	
JPN	-	Japan	2005	2005	2005	0.0	0.7	1.000000	
CHN	-	China	2005	2005	2005	0.0	0.7	1.000000	
CAN	-	Canada	2005	2005	2005	0.0	0.7	1.000000	
KOR	-	Korea, Rep.	2004	2005	2005	0.0	0.7	1.000000	
BRA	-	Brazil	2005	2004	2004	0.0	0.7	1.000000	
IND	-	India	2005	2004	2004	0.0	0.7	1.000000	
MEX	-	Mexico	2005	2005	2005	0.0	0.7	1.000000	
RUS	-	Russian Fed.	2005	2005	2005	0.0	0.7	1.000000	
AUS	-	Australia	2005	2005	2005	0.0	0.7	1.000000	
CHE	-	Switzerland	EEUN	2005	2005	0.0	0.7	1.000000	
TUR	-	Turkey	2005	2004	2004	0.0	0.7	1.000000	
TWN	-	Taiwan, China	2005	2004	2004	0.0	0.7	1.000000	
SAU	-	Saudi Arabia	2004	2002	2003	0.0	0.7	1.000000	
NOR	-	Norway	2003	2004	2004	0.0	0.7	1.000000	
IDN	-	Indonesia	2005	2005	2005	0.0	0.7	1.000000	
IRN	-	Iran, Islamic Rep.	2004	2003	2003	0.0	0.7	1.000000	
ARG	-	Argentina	2005	2004	2004	0.0	0.7	1.000000	
HKG	-	Hong Kong, China	CHN	2005	2005	0.0	0.7	1.000000	
THA	-	Thailand	2005	2005	2005	0.0	0.7	1.000000	
ARE	-	United Arab Emir.	2005	2001	2001	0.0	0.7	1.000000	
VEN	-	Venezuela	2005	2004	2004	0.0	0.7	1.000000	
MYS	-	Malaysia	2005	2004	2004	0.0	0.7	1.000000	
ISR	-	Israel	2005	2004	2004	0.0	0.7	1.000000	
BDI	-	Burundi	x	2002	2004	2004	0.0	0.7	1.000000
COM	-	Comoros	x	DJI	2000	2000	0.0	0.7	1.000000
DJI	-	Djibouti	x	2002			0.0	0.7	1.000000
ERI	-	Eritrea	x	ETH	2003	2003	0.0	0.7	1.000000
ETH	-	Ethiopia (-Eritrea)	x	2002	2003	2003	0.0	0.7	1.000000
KEN	-	Kenya	x	2005	2004	2004	0.0	0.7	1.000000
MDG	-	Madagascar	x	2005	2004	2004	0.0	0.7	1.000000
MWI	-	Malawi	x	2001	2005	2005	0.0	0.7	1.000000
MUS	-	Mauritius	x	2005	2005	2005	0.0	0.7	1.000000
MOZ	-	Mozambique	x	2005	2005	2005	0.0	0.7	1.000000
RWA	-	Rwanda	x	2005	2003	2003	0.0	0.7	1.000000
SYC	-	Seychelles	x	2005	2005	2005	0.0	0.7	1.000000
SOM	-	Somalia	x	ETH			0.0	0.7	1.000000
TZA	-	Tanzania	x	2005	2004	2004	0.0	0.7	1.000000
UGA	-	Uganda	x	2005	2004	2004	0.0	0.7	1.000000
ZMB	-	Zambia	x	2005	2004	2004	0.0	0.7	1.000000
ZWE	-	Zimbabwe	x	2003	2004	2004	0.0	0.7	1.000000
AGO	-	Angola	x	2005			0.0	0.7	1.000000
CMR	-	Cameroon	x	2005	2004	2004	0.0	0.7	1.000000
CAF	-	Central African Rep.	x	2005	2005	2005	0.0	0.7	1.000000
TCD	-	Chad	x	2005			0.0	0.7	1.000000
ZAR	-	Congo, Dem. Rep.	x	2003			0.0	0.7	1.000000
COG	-	Congo, Rep.	x	2005			0.0	0.7	1.000000
GAB	-	Gabon	x	2005	2004	2004	0.0	0.7	1.000000
STP	-	Sao Tome, Principe	x	AGO	2003	2003	0.0	0.7	1.000000
DZA	-	Algeria	x	2005	2004	2004	0.0	0.7	1.000000
EGY	-	Egypt, Arab Rep.	x	2005	2004	2004	0.0	0.7	1.000000
LBY	-	Libya	x	2002			0.0	0.7	1.000000
MAR	-	Morocco	x	2005	2004	2004	0.0	0.7	1.000000
SDN	-	Sudan	x	2002	2003	2003	0.0	0.7	1.000000
TUN	-	Tunisia	x	2005	2004	2004	0.0	0.7	1.000000
BWA	-	Botswana	x	2005	2001	2001	0.0	0.7	1.000000
LSO	-	Lesotho	x	ZAF	2002	2002	0.0	0.7	1.000000
NAM	-	Namibia	x	2005	2003	2003	0.0	0.7	1.000000
ZAF	-	South Africa	x	2005	2005	2005	0.0	0.7	1.000000
SWZ	-	Swaziland	x	ZAF	2002	2002	0.0	0.7	1.000000

Years shown to the right are years used for the tariff, export, and import data. If no tariff data was used, tariffs of another country (marked) were used instead.

AFRI	<--Model	C:\VMOD\	Begin:	2005	Base:	2005	End:	2005	Non	Supply	S.shift ON	
BEN	-	Benin	x	x			2005	2002	2002	0.0	0.7	1.000000
BFA	-	Burkina Faso	x	x			2005	2004	2004	0.0	0.7	1.000000
CPV	-	Cape Verde	x	x			ECOWAS	2004	2004	0.0	0.7	1.000000
CIV	-	Cote d'Ivoire	x	x			2005	2003	2003	0.0	0.7	1.000000
GMB	-	Gambia, The	x	x			ECOWAS	2003	2003	0.0	0.7	1.000000
GHA	-	Ghana	x	x			2004	2004	2004	0.0	0.7	1.000000
GIN	-	Guinea	x	x			2005	2002	2002	0.0	0.7	1.000000
GNB	-	Guinea-Bissau	x	x			2005			0.0	0.7	1.000000
LBR	-	Liberia	x	x			ECOWAS			0.0	0.7	1.000000
MLI	-	Mali	x	x			2005	2001	2001	0.0	0.7	1.000000
MRT	-	Mauritania		x			2001			0.0	0.7	1.000000
NER	-	Niger	x	x			2005	2003	2003	0.0	0.7	1.000000
NGA	-	Nigeria	x	x			2005	2003	2003	0.0	0.7	1.000000
SEN	-	Senegal	x	x			2005	2005	2005	0.0	0.7	1.000000
SLE	-	Sierra Leone	x	x			ECOWAS	2002	2002	0.0	0.7	1.000000
TGO	-	Togo	x	x			2005	2005	2005	0.0	0.7	1.000000
ROW	-	Rest of World (residual region)								0.0	0.7	1.000000
WLD	-	World market clearing mechanism										
CMK	-	Common Market										
FTA	-	Free Trade Area										

Category	Description.....	Supply elast.	Demand elast.
ANIML	- Animal products - A - HS Chapter I	0.75	-0.40
VEGTB	- Vegetable products - B - HS Chapter II	0.75	-0.95
FATOL	- Fats and oils - C - HS Chapter III	0.75	-1.10
FOODM	- Manufactured foods - D - HS Chapter IV	0.75	-1.15
FUELM	- Mineral, fuels - E - HS Chapter V	0.50	-1.21
CHEMS	- Chemicals - F - HS Chapter VI	1.00	-1.65
RUBPL	- Rubber, plastic products - G - HS Chapter VII	1.00	-1.60
LEATH	- Hides, leather products - H - HS Chapter VIII	1.00	-0.70
WOODC	- Cork, wood products - I - HS Chapter IX	1.00	-1.40
PAPER	- Pulp, paper products - J - HS Chapter X	1.00	-1.25
TXTCL	- Textiles, apparel - K - HS Chapter XI	1.00	-1.30
FOOTW	- Footwear, - L - HS Chapter XII	1.00	-2.50
GLASC	- Ceramics, glass products - M - HS Chapter XIII	1.00	-1.60
JEWLP	- Jewels, precious stones - N - HS Chapter XIV	1.00	-2.25
METAL	- Metals, metal products - O - HS Chapter V	1.00	-2.00
MACHN	- Machinery - P - HS Chapter XVI	1.00	-2.00
TRANS	- Transport equipment - Q - HS Chapter XVII	1.00	-2.25
EQUIP	- Professional equipment - R - HS Chapter XVIII	1.00	-2.50
ARMSA	- Arms and ammunition - S - HS Chapter XIX	1.00	-0.80
MANUM	- Miscellaneous manufactures - T - HS Chapter XX	1.00	-1.40
ARTWK	- Works of art - U - Chapter XXI	1.00	-1.00

Variable	Format	Lag	Description.....	Country	CMK,FTA
px	0.00	0	export price (index) (CMK,FTApx-lower, upper w.p. bounds)	x	x
pm	0.00	0	import price (index)	x	
tx	0.000	0	export tax rate (percent) (tax -, subsidy +)	x	
tm	0.000	0	import tariff rate (percent) (tariff +, subsidy -)	x	
xs	0	0	export supply (000\$)	x	
md	0	0	import demand (000\$)	x	
nt	0	0	net trade = xs-md (000\$)	x	
fx	0.00	0	export supply shift (index, 1=status quo)	x	
fm	0.00	0	import demand shift (index, 1=status quo)	x	
cp	0.000	0	non-competitive index (0=comp., 1=non-comp.)	x	
tc	0.000	0	tariff for common market (percent) (default = ta)		x
if	0.000	0	trade premium in free trade area (percent) (default = tl)		x
th	0.000	0	1+non-competitive tariff equiv.; CMK,FTA high tariff(simple av	x	x
ta	0.000	0	tariff, average (import weighted average) - CMK default tariff		x
tl	0.000	0	tariff, low (import+export weighted average) - FTA default tariff		x
bx	0	0	base export supply (000\$)	x	
bm	0	0	base import demand (000\$)	x	
bi	0.00	0	base import price (index)	x	

For liberalization scenarios with tariffs, tm variables are changed manually in the model

To for a common market, simply set cmm = 1 for member countries in the

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<b>bt</b>	0.000	0	base tariff rate (percent)	member countries in the				
<b>xx</b>	0	0	spare product variable	model; set ftm = 1 in model	x	x		
<b>yy</b>	0	0	spare product variable	to form free trade areas.	x		x	
<b>zz</b>	0.00	0	9 or FTA member tariff				x	
<b>cmm</b>	0	0	common market member (member=1, non-member=0)		x			
<b>ftm</b>	0	0	free trade agreement member (member=1, non-member=0)		x			
<b>xrt</b>	0.000	0	exchange rate (index)		x			
<b>cfl</b>	0	0	capital flow (000\$)		x			
<b>bop</b>	0	0	balance of payments (000\$)		x			
<b>x</b>	0.00	0	exchange rate lower bound		x		x	
<b>y</b>	0.00	0	exchange rate upper bound		x		x	
<b>z</b>	0.00	0	spare country price variable		x		x	

Factor variables below can be added to saved solutions.

<b>Isheet</b>	<b>Description.....</b>
<b>ECWAS</b>	- ECOWAS members
<b>OAFRI</b>	- Non ECOWAS African countries
<b>AFRIC</b>	- African countries
<b>WORLD</b>	- All countries/regions in the AFRI model

<b>Icategory</b>	<b>Description.....</b>
<b>TOT</b>	- Total - sum over all product groups

<b>Ivariable</b>	<b>Description.....</b>
<b>sp</b>	- surplus - producer (benefits)
<b>sc</b>	- surplus - consumer (benefits)
<b>rv</b>	- change in tariff revenue
<b>wf</b>	- welfare = sp + sc
<b>cx</b>	- change in exports (% of base exports)
<b>cm</b>	- change in imports (% of base imports)
<b>cs</b>	- change in producer surplus (% of base exports)
<b>cc</b>	- change in consumer surplus (% of base imports)
<b>cr</b>	- change in tariff revenue (% of base imports)
<b>cw</b>	- change in welfare (% of base exports + imports)