

Model: AFRI Equation terms, first equation matrix row, and sample equation for the banked equation group - FTAEvar

FTAxs FTA exports

export supply	com. mk. supply
xs	!xs :ROWxs)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAxs|:ROWxs|)

FTAMD FTA imports

import supply	com. mk. demand
md	!md :ROWmd)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAMD|:ROWmd|)

FTAnt FTA net trade

FTA net trade	+ exports	-imports
nt	+!xs	-!md
ANIML	-	-

constant +!xs| -!md|

FTAcP FTA base import weighted competitiveness index

FTA compet.	im. wtd. cp
cp	0001+!bm)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAbm|:ROWbm|,USAcP|:ROWcp|)/(0.00001+!bm|)

FTAft estimate/set FTA tariff

FTA tariff	either low or 0 tar.	or set ftm tariff
tf	+IF(!nt >0,0,	+#
ANIML	-	

constant +IF(!nt|>0,0,!t|) +#

tf is either the low FTA premium (tl or zero) or an FTA premium set by the user

FTAth FTA simple average tariff

FTA high tariff	simple avg. tar.
th	0001+!ftm)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAtm|:ROWtm|)/(0.000001+!ftm)

FTAta FTA import weighted average tariff

FTA avg. tariff	imp. wt. average
ta	0001+!bm)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAbm|:ROWbm|,USAtm|:ROWtm|)/(0.000001+!bm|)

FTAtl FTA (import + export) weighted import tariff

FTA low tariff	exp.+imp. wt. avg.
tl	+!md +!xs)
ANIML	-

tl is the trade weighted average of import and export tariffs (export tariff assumed = 0 for this calculation)

constant +!md|*!zz|/(0.000001+!md|+!xs|)

FTAbx FTA base exports

FTA base ex.	sum base exports
bx	!k :ROWbx)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAbx|:ROWbx|)

FTAbm FTA base imports

FTA base im.	sum base imports
bm	!k :ROWbm)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAbm|:ROWbm|)

FTAbi FTA base import weighted average import price

FTA im. price	FTA avg. bi
bi	0001+!bm)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAbm|:ROWbm|,USAbi|:ROWbi|)/(0.000001+!bm|)

FTAbt FTA base import weighted tariff

FTA base tariff	sum imp. wt. tar.
bt	0001+!bm)
ANIML	-

constant +SUMPRODUCT(USAftm:ROWftm,USAbm|:ROWbm|,USAbt|:ROWbt|)/(0.000001+!bm|)

FTAftm count FTA members

FTA count	sum ftm
ftm	n:ROWftm)
ftm	-

constant +SUM(USAftm:ROWftm)

FTAxrt FTA average exchange rate

av. exch. rate	average xrt
xrt	0001+!ftm)
xrt	-

constant +SUMPRODUCT(USAftm:ROWftm,USAxrt:ROWxrt)/(0.000001+!ftm)

FTAcfl FTA capital flow

FTA capital fl.	sum cap. Flow
cfl	cfl:ROWcfl)
cfl	-

constant +SUMPRODUCT(USAftm:ROWftm,USAcfl:ROWcfl)

FTAbop FTA balance of payments

FTA bal. of pay.	sum bop
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bop	:ROW/bop)
bop	-

constant +SUMPRODUCT(USAftm:ROWftm,USAbop:ROW/bop)

FTAzz

zz	:ROWzz)
ANIML	-

constant +MIN(USAzz|:ROWzz|)