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

USApx export price (world prices with or without ftm trade premium and with export tax)

export price	non-fta or fta mem.	fta premium	export tax	world p. trans. e.	exchange rate
px	*((1-!ftm)	TAtf|,!tm|)))	*(1-!tx|)	WLDpx|^#)	/!xrt
FOODA	-	-	-	1.0	-

constant *((1-!ftm) +!ftm*(1+MIN(FTAtf|,!tm|))) *(1-!tx|) *(WLDpx|^#) /!xrt

USApm import price (with own, ftm, or cmm tariff)

import price	existing tariff	existing tariff	fta tariff	cmk tariff	world p. trans. e.	exchange rate
pm	+(!cp|-1)/#)	m)*(1+!tm|)	TAtf|,!tm|))	1+CMKtc|))	WLDpx|^#)	/!xrt
FOODA	-1.00	-	-	-	1.0	-

constant *(1+(!cp|-1)/#) *((1-!ftm-!cmm)*(1+!tm|) +!ftm*(1+MIN(FTAtf|,!tm|)) +!cmm*(1+CMKtc|)) *(WLDpx|^#) /!xrt

USAxs exports

export supply	supply shift term	supply elast.
xs	*!fx|	*!px|^#
FOODA	-	1.00

constant *!fx| *!px|^#

USAmd imports

import demand	demand shift term	demand elast.
md	*!fm|	*!pm|^#
FOODA	-	-1.00

constant *!fm| *!pm|^#

USAnt net trade = xs - md

net trade	export supply	import demand
nt	+!xs|	-!md|
FOODA	-	-

constant +!xs| -!md|

USAbop balance of payments

balance payments	net trade at wld p.	capital flow
bop	ntCTNEC))	+!cfl)
bop	-	-

constant +(SUMPRODUCT((WLDpxFOODA:WLDpxCTNEC),(!ntFOODA:!ntCTNEC)) +!cfl)

USAzz

zz	m=1,!tm|,9)
FOODA	-

constant +IF(!ftm=1,!tm|,9)