Appendix B: The FUGI global modeling system (FGMS)

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FUGI GLOBAL MODEL 9.0 M200 (FGMS-M200)

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September 27, 2000-2007

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I: POPULATION: E001-E019)

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E001 LOG (BIRTHR) = F ((+ N) LOG (TFR),
(+N) LOG (NPFEA.1 / NP.1))

If TFR would not be available, use the following:

E002 LOG (BIRTHR) = F ((- N) LOG (GDP#. 1 / NP.1)),
(- N) LOG (GEDU#. 1 / GDP#. 1),
(+N) LOG (SUMT5 (DEATHR.1) / 5),
(-N) LOG (LIFEEXP. 1), (-) DWAR)

E003 LOG (DEATHR) = F ((- N) LOG (GDP#. 1 / NP.1),
(-N) LOG (GSW#. 1) / GDP#. 1),
(+N) LOG (NPMO65.1 + NPFO65.1)/ NP.1),
(+N) LOG (SUMT5 (BIRTHR.1) / 5),
(+) DWAR)

E004 LOG (NPM) = F ((+N) LOG (NP), (-) DWAR)

E005 LOG (NPMEA) = F ((+N) LOG (NPM))

E006 LOG (NPFEA) = F ((+N) LOG (NPF))

E007 LOG (NPMO65 / NPM) = F ((+N) LOG (LIFEXPM.1))

E008 LOG (NPFO65 / NPF) = F ((+N) LOG (LIFEXPF 1))

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E009    LOG (LIFXPM))          = F ((+) LOG (GDP#. 1 / NP.1),
                                    (+) LOG ((GH#. 1+GSW#. 1) / GDP#. 1),
                                    (+) LOG (GEDU#. 1 / GDP#. 1),
                                    (-) LOG (TFR))

E010    LOG (LIFEXPF)          = F ((+) LOG (GDP#. 1 / NP.1),
                                    (+) LOG ((GH#. 1+GSW#. 1) / GDP#. 1),
                                    (+) LOG (GEDU#. 1 / GDP#. 1),
                                    (-) LOG (TFR))

DEF     LIFEEXP                = (NPM/NP)*LIFEXPM +(NPF/NP)*LIFEXPF

E011    LOG (TFR)               = F ((-N) LOG (GDP#. 1 / NP.1),
                                    (-N) LOG (GEDU#. 1 / GDP#. 1),
                                    (+N) LOG (SUMT5 (DEATHR.1) / 5),
                                    (-N) LOG (LIFEEXP. 1), (-) DWAR)

E012    LOG (NRR)              = F ((+) LOG (GRR))

E013    LOG (GRR)              = F ((+) LOG (TFR))

E014    LOG (GFR)              =   F ((+) LOG (TFR))

E015    LOG (NETMGTR)          = F ((+N) LOG (IPCID.1), (- N) LOG (UNEMPR.1)

E016    LOG (NPRURAL/NP)       = F ((+N) LOG (GDPAGR#. 1 / GDP#. 1), ((+N) LOG (TFR.1))

DEF     NP                     = NP.1* (1 + (BIRTHR - DEATHR +NETMGTR)/ 1000)

DEF     NPF                    = NP - NPM

DEF     NPFU15                 = NPF - NPFEA - NPFO65

DEF     NPMU15                 = NPM - NPMEA - NPMO65

DEF     NPFU15                 = NPF - NPFEA - NPFO65
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DEF     NATY            = (BIRTHR    /1000)* NP

DEF     MORTY           = (DEATHR /1000)* NP

DEF     NETMGT          = (NETMGTR /1000) * NP

DEF     NPURBAN         = NP - NPRURAL

DEF     NPO65           = NPMO65 + NPFO65

DEF     NPDOT           =    NP / NP.1    * 100
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II: FOODS: (E020-E029)

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E020    LOG (EXFOOD#)       = F ((+N) LOG (ETFOB#), (+N) LOG (GDPAGR#. 1))

E021    LOG (IMFOOD#)       = F ((+N) LOG (CAPM#), (+N) LOG (FOODR# / NP))

E022    LOG (IMPCERL)       = F ((+N) LOG (IMFOOD#))

E023    LOG (FPROPCI)       = F ((+N) LOG (GDPAGR# /NP),
                                  (+N) LOG (NPRURAL / NP), (+N) LOG (CULTIVA / NP))

E024    LOG (CULTIVA)       = F ((+N) LOG (ARABLE), (+N) LOG (FOODR#. 1),
                               (+N) LOG (EXFOOD#. 1 + IMFOOD#. 1), (-) LOG (EROSION)

E025    LOG (ARABLER)       = F ((+N) LOG (FOODR#. 1),
                              (+N) LOG (EXFOOD#. 1 + IMFOOD#. 1), (-) LOG (EROSION))

E026    LOG (XPDFOOD)       = F ((-) LOG (GDP# / NP), (-) LOG (GDPMF# / GDP#))

E027    LOG (XPDSTPL)       = F ((-) LOG (GDP# / NP), (-) LOG (GDPMF# / GDP#))
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E028 LOG (XPDPROT) = F ((-) LOG (GDP# / NP), (+) LOG (LIFEEXP.1))

E029 LOG (TFOODR) = F ((+N) LOG (FOODR#))

DEF ARABLE = ARABLE.1 (1+ ARABLER /100)

DEF FOODR# = XPDFOOD*GDP#

DEF TFOODS = TFOODS.1* (1 + DOT (FPROPCI)+ DOT (NP))+ IMFOOD
+ FOODAID@

DEF FOODPOP = (TFOODR - TFOODS) / NP

DEF NMFOOD = IMFOOD# * PMS - EXFOOD# * PES

*CALTIVAT < ARABLE < TLAND

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III: ENERGY: (E030-069)

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< Energy Requirement >

E030 LOG (OIL/GDP#) = F ((- N) LOG (POIL / WPI),
(- N) LOG ((COAL.1 + GAS.1) / ENGYR.1),
(- N) LOG (ALTEGY.1 / ENGYR.1),
(-N) LOG (SUMT5 (ITI#) / NHFCS#))

E031 LOG (COAL/GDP#) = F ((- N) LOG (PCOAL / WPI),
(- N) LOG (ALTEGY.1 / ENGYR.1),
(-N) LOG (SUMT5 (ITI#) / NHFCS#)))

E032 LOG (GAS / GDP#) = F ((- N) LOG (PGAS / WPI),
(- N) LOG (ALTEGY.1 / ENGYR.1),
(-N) LOG (SUMT5 (ITI#) / NHFCS#))

E033 LOG (ALTEGY) = F ((+N) LOG (GDP#), (+) LOG (POIL.1 / WPI.1))

DEF ENGYR = OIL + COAL + GAS + ALTEGY

*If TFCE data are available, use the following sub-system

< Total Final Consumption of Energy: TFCE >

E034 LOG (TFCOILI) = F ((+N) LOG (GDP#), (- N) LOG (POIL / WPI),
(-N) LOG ((TFCOAL.1 + TFCGAS.1) / TFCE.1),
(- N) LOG (ALTEGY.1 /TFCE.1))

E035 LOG (TFCOILT) = F ((+N) LOG (GDP#), (- N) LOG (POIL / WPI),
(-N) LOG (TFCELC.1 / TFCE.1),
(-N) LOG (BATT.1 / TFCOILT.1))

E036 LOG (TFCOILO / GDP#) = F ((- N) LOG (POIL / WPI),
(-N) LOG (TFCELC.1 / TFCE.1),
(- N) LOG (ALTEGY.1 /TFCE.1),
(-N) LOG (SUMT5 (ITI#) / NHFCS#))

DEF TFCOIL = TFCOILI + TFCOILT + TFCOILO

E037 LOG (TFCOALI) = F ((+N) LOG (GDP#), (- N) LOG (PCOAL / WPI),
(-N) LOG (TFCELC.1 / TFCE.1),
(- N) LOG (ALTEGY.1 /TFCE.1))

E038 LOG (TFCOALT) = F ((+N) LOG (GDP#), (- N) LOG (PCOAL / WPI),
(-N) LOG (TFCELC.1 / TFCE.1),
(- N) LOG (ALTEGY.1 /TFCE.1))

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E039    LOG (TFCOALO / GDP#)    = F ((- N) LOG (PCOAL / WPI),
                                    (-N) LOG (TFCELC.1 / TFCE.1),
                                    (- N) LOG (ALTEGY.1 /TFCE.1),
                                    (-N) LOG (SUMT5 (ITI#) / NHFCS#))

DEF     TFCOAL                  = TFCOALI + TFCOALT + TFCOALO

E040    LOG (TFCGASI)           = F ((+N) LOG (GDP#), (- N) LOG (PGAS / WPI),
                                    (-N) LOG (TFCELC.1 / TFCE.1),
                                    (- N) LOG (ALTEGY.1 /TFCE.1))

E041    LOG (TFCGAST)           = F ((+N) LOG (GDP#), (- N) LOG (PGAS / WPI),
                                    (-N) LOG (TFCELC.1 / TFCE.1),
                                    (-N) LOG (BATT.1 / TFCOILT.1))

E042    LOG (TFCGASO/ GDP#)     = F ((- N) LOG (PGAS / WPI),
                                    (-N) LOG (TFCELC.1 / TFCE.1),
                                    (- N) LOG (ALTEGY.1 /TFCE.1),
                                    (-N) LOG (SUMT5 (ITI#) / NHFCS#))

DEF     TFCGAS                  = TFCGASI + TFCGAST + TFCGASO

E043    LOG (TFCELCI)           = F ((+N) LOG (GDP#),   (- N) LOG (PELC / WPI),
                                    (-N) LOG (ALTHTEC .1))

E044    LOG (TFCELCT)           = F ((+N) LOG (GDP#),   (- N) LOG (PELC / WPI),
                                    (-N) LOG (ALTHTEC .1))

E045    LOG (TFCELCO)           = F ((+N) LOG (GDP#), (- N) LOG (PELC / WPI),
                                    (-N) LOG (ALTHTEC .1))

DEF     TFCELC                  = TFCELCI + TFCELCT + TFCELCO

DEF     TFCE                    = TFCOIL + TFCOAL + TFCGAS + TFCELC + TFCALT@
```

<< Total Intermediate Consumption of Fossil Energy >>

E046 LOG (TICOIL) = F ((+N) LOG (TFCOIL), (- N) LOG (POIL / WPI),
(-N) LOG (NUCL.1 / TFCE.1),
(- N) LOG (ALTEGY.1 /TFCE.1))

E047. LOG (TICCOAL) = F ((+N) LOG (TFCOAL), (- N) LOG (PCOAL / WPI),
(-N) LOG (NUCL.1 / TFCE.1),
(- N) LOG (ALTEGY.1 /TFCE.1))

E048. LOG (TICGAS) = F ((+N) LOG (TFCGAS), (- N) LOG (PGAS / WPI),
(-N) LOG (NUCL.1 / TFCE.1),
(- N) LOG (ALTEGY.1 /TFCE.1))

< Total Energy Requirements >>

E049 LOG (NUCL) = F ((+N) LOG (TFCELC), (+) LOG (POIL / WPI))

E050 LOG (HYDRO) = F ((+N) LOG (TFCELC))

E051 LOG (SOLAR) = F ((+N) LOG (TFCELC))

E052 LOG (BIOMASS) = F ((+N) LOG (TFCELC))

E053 LOG (BATT) = F ((+N) LOG (TFCELC))

E054 LOG (ALTHTEC) = F ((+N) LOG (TFCELC))

DEF ALTEGY = NUCL + HYDRO + SOLAR + BIOMASS + BATT
+ ALTHTEC

DEF OIL = TFCOIL + TICOIL

DEF COAL = TFCOAL + TICCOAL

DEF GAS = TFCGAS + TICGAS

```
DEF     ENGYR           = OIL + COAL + GAS + ALTEGY

DEF     FOSSIL          = OIL + COAL + GAS

DEF     ENGYS           = ENGYR + NENGYTB@

        << ENERGY INDICATORS >>

DEF     ALTEGYR         = (ENGYR - FOSSIL) / ENGYR
                                                                        <
                                        <Alternative Energy Rate >

DEF     EPC             = (ENGYR / NP) * 1000
                                                                        < Energy
                                        per capita >

DEF     ESR             = ENGYR / GDP#
                                        < Energy Savings Rate: Energy Intensity >

DEF     AETR            = CO2EMN / ENGYR
                                < Alternative Energy Technology Rate: CO2 Efficiency >

DEF     CO2PC           = (CO2EMN / NP) * 1000
                                          <CO2 per capita>
DEF     CO2ESR          =   CO2EMN /CO2 EMN.1995 * 100
                                        < CO2 emission stabilization rate >
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IV: ENVIRONMENT: (E070 – E099)

(ECOSYSTEM)

** **********

< Country / Regional Level >

E070 LOG (NDISAST) = F ((+N) LOG (DFAWC@), (+N) LOG (FLOOD),
(+N) LOG (DROUGHT))

E071 LOG (FLOOD) = F ((+N) LOG (DEFORES), (+N) LOG (DFAWC@),
(+N) LOG (ESWARM)

E072 LOG (DROUGHT) = F ((+N) LOG (DEFORES), (+N) LOG (DFAWC@))

E073 LOG (DEFORTR) = F ((+N) LOG (NP), (+N) LOG (ARABLE), (+N) LOG (ACRAIN),
(+N) LOG (EXTIM@))

E074 LOG (EROSION) = F ((+N) LOG (DROUGHT), (+N) LOG (DEFORES))

E075 LOG (DESERT) = F ((+N) LOG (EROSION), (+N) LOG (DEFORES))

E076 LOG (AIRPOL) = F ((+N) LOG (FOSSIL), (-N) LOG (SUMT5 (APNHI#. 1))

E077 LOG (WATPOL) = F ((+N) LOG (NPURBAN), (-N) LOG (SUMT5 (APNHI#. 1))

E078 LOG (SOILPOL) = F ((+N) LOG (LANDCON), (+N) LOG (WATPOL),
(+N) LOG (INTWAR), (+N) LOG (INTLWAR))

E079 LOG (NUCLPOL) = F ((+N) LOG (NUCL), (+N) LOG (INTWAR), (+N) LOG (INTLWAR))

E080 LOG (APNHI#) = F ((+N) LOG (NHI#))

E081 LOG (ACRAIN) = F ((- N) LOG (SOX), (- N) LOG (NOX)
(0 (MAX) < pH < 7 (MIN))

E082 LOG (SOX) = F ((+N) LOG (FOSSIL), (-N) LOG (ALTEGY), (-N) LOG (TECHA#),
(-N) LOG (SUMT5 (APNHI#. 1)))

E083 LOG (NOX) = F ((+N) LOG (FOSSIL), (-N) LOG (ALTEGY), (-N) LOG (TECHA#),
(-N) LOG (SUMT5 (APNHI#. 1)))

E084. LOG (CH4) = F ((+N) LOG (NPRURAL))

E085 CO2EMN = F ((+N) (CO2ETF*(0.996 * COAL + 0.804 * OIL + 0.574 * GAS))

E086 LOG (CO2ETF) = F ((-N) LOG (TECHA#))

E087 LOG (CO2) = F ((+N) LOG (CO2EMN), (- N) LOG (FOREST),
(- N) LOG (BIOTEC@))

E088 LOG (ESWARM) = F ((+N) LOG (ESWARMG))

DEF FOREST = FOREST.1 - DEFORES

DEF DEFORES = DEFORES.1* (1 + DEFORTR/1000)

< Global level >

DEF CO2 G = CO2<SUM>

DEF FORESTG = FOREST <SUM>

E089 LOG (CO2PPMG) = F ((+N) LOG (CO2G), (- N) LOG (FORESTG),
(- N) LOG (BIOTECG@)

E090 LOG (ESWARMG) = F ((+N) LOG (CO2G), (+N) LOG (CH4G),
(+N) LOG (O3G@), (+N) LOG (CFCG@))

<< GEWS INDICATORS >>

I ENVI Destruction of Environment

I-1 NDISAST Natural Disasters

I-2 WATPOL Water Pollution

I-3 AIRPOL Air Pollution

I-4 SOILPOL Soil Pollution

I-5 NUCLPOL Nuclear Pollution

I-6 DESERT Ecological Imbalance

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V: ECONOMIC DEVELOPMENT: (E100 – E899)

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+----------+

1. LABOR AND PRODUCTION < AT CONSTANT PRICES >: (E100 – E139)

+----------+

E100 LOG (GDPP# / LCLF) <AME> = F ((+N) LOG (NHFCS# / LCLF),
(+N) LOG (EDUA# / LCLF),
(+N) LOG (TECHA#)/LCLF),
(+N) LOG (SUMT5 (NHI#) / NHFCS#))
Type A

E101 LOG (GDPP# / LCLF) <AME> = F ((+N) LOG (NHFCS# / LCLF),
(+N) LOG (TECHA# / LCLF),
(+N) LOG (SUMT5 (NHI#) / NHFCS#))
Type B (BEL, DEU, IRL, LUX, GBR, SWE)

* If NHFCS# data are not available, NHFCS# should be estimated by using the definition on NHFCS# where NHFCS# (at 1995 prices) is assumed as 1.20*GDP# (at the estimation starting year 1970).

*If CUR and ITI# data are available, use the following equation

E102 LOG (GDPP# / LCLF) <AME> = F (((+N) LOG (NHFCS#*CUR / LCLF),
(+N) LOG (SUMT5 (ITI#) / NHFCS#))
Type C (JPN, USA)

E103 LOG (GDPP# / LCLF) <DME> = F ((+N) LOG (NHFCS# / LCLF),
(+N) LOG (EDUA# / LCLF),
(+N) LOG (SUMT5 (GH#. 1) / LCLF),
(+N) LOG (SUMT3 (ODATCR.1 / PMS.1),
(-N) LOG (PEO.1*FERSI.1 / WPI.1))

Type

Ex.)

E104 LOG (GDPP# / LCLF) <DME> = F ((+N) LOG (NHFCS# / LCLF),
(+N) LOG (EDUA# / LCLF),
(+N) LOG (SUMT5 (GH#. 1) / LCLF),
(+N) LOG (SUMT3 (ODATCR.1) / PMS.1),
(+N) LOG (PEO.1*FERSI.1 / WPI.1))

Type

E105 LOG (RD#) = F ((+N) LOG (GDP#. 1), (+N) LOG (GES#. 1))

E106 LOG (RD#) <USA> = F ((+N) LOG (OS#. 1-TYC#. 1), (+N) LOG (GES#. 1),
(+N) LOG (GDF#. 1)

E107 LOG (RD#)<JPN> = F ((+N) LOG (OS#. 1-TYC#. 1), (+N) LOG (GEST#. 1))

*If data on RDBE# and RDGOV# are available, use the following equations

E108 LOG (RDBE#) = F ((+N) LOG ((OS#. 1-TYC#. 1), (+) LOG ((OS#. 2-TYC#. 2))

E109 RDGOV# = F ((+N) GES#. 1)

E130 RDGOV#＜JPN> = F ((+) GEST#. 1)

E110 DNHC# = F ((+) NHFCS#. 1)

*If DNHC# data are not available, DNHC# should be estimated by 0.07 *NHFCS#. 1

E111 UNEMPR<AME> = F ((+N) LOG (LCLF), (- N) LOG (GDP#. 1 / GDP#. 2),
(+N) LOG (COMPE#. 1 / GDP#. 1),
(- N) LOG (GFCF#. 1 / GDP#. 1)) Type A

E112 UNEMPR<AME> = F ((+N) LOG (LCLF*HOW), (- N) LOG (GDP#. 1 / GDP#. 2),
(+N) LOG (WSEI.1 / CPI.1/ LPI.1),
(- N) LOG (GFCF#. 1 / GDP#. 1)) Type B. USA

E113 UNEMPR<AME> = F ((+N) LOG (LCLF*HOW), (- N) LOG (GDP#. 1 / GDP#. 2),
(+N) LOG (WSEI.1 / LPI.1),
(- N) LOG (GFCF#. 1 / GDP#. 1))
Type C. EU (FRA, DEU, GRC, IRL, ITA, GBR, AUT, SWE)

E114 UNEMPR<DME> = F ((+N) LOG (LCLF), (- N) LOG (GDP#. 1 / GDP#. 2),
(- N) LOG (GFCF#. 1 / GDP#. 1))

E115 UNEMPR<EIT> = F ((+N) LOG (LCLF), (- N) LOG (GDP#. 1 / GDP#. 2),
(- N) LOG (GFCF#. 1 / GDP#. 1))

DEF GDPAG#C = 0.3551436 - 0.1279891* GDPP# / NP
+0.01691503* (GDPP# / NP)^2 - 0.0009406098*(GDPP# / NP)^3
+ 0.00002291084*(GDPP# / NP)^4
-0.0000002013468* (GDPP# / NP)^5)

DEF GDPMF#C = 0.1241992* + 0.0200785*GDPP# / NP
-0.002310938* (GDPP# / NP)^2 +0.0001191378*(GDPP# / NP)^3
-0.000002766923*(GDPP# / NP)^4
+0.00000002371586* (GDPP# / NP)^5)

DEF GDPIN#C = 0.2088974 + 0.05532418 GDPP# / NP
- 0.007219928* (GDPP# / NP)^2 + 0.000370202608*(GDPP# / NP)^3
- 0.00000829076*(GDPP# / NP)^4
+0.00000006798821* (GDPP# / NP)^5)

E116 GDPAGR# / GDPP# = F ((N) GDPAG#C),
(+) PEC.1*FERSI.1 / PGDP.1)

E117 GDPMF# /GDPP# = F ((N) GDPMF#C, (+) NHI# / GDPP#)

E118	GDPIND# /GDPP#	= F ((N) GDPIN#C, (+) NHI# / GDPP#)
DEF	GDPSER# / GDPP#	= 1 - GDPAG# / GDPP# - GDPIND # / GDPP#
E119	LOG (IPI)	= F ((+N) LOG (GFCF#), (+N) LOG (E#), (+N) LOG (GDP# - GFCF# - E#))
E120	LOG (CUR)	= F ((+) LOG (IPI.1), (+) LOG (IPI.1 / (SUMT3 (IPI.1) / 3))
E121	LOG (TECHM#)	= F ((+) LOG (GDP#. 1), (+) LOG (ETFOB#. 1*PES.1/PMS.1))
E122	LOG (TECHE#)	= F ((+N) LOG (SUMT5 (RDBE#. 1)))
E123	LOG (LCLFM)	= F ((+N) LOG (NPMEA))
E124	LOG (LCLFF)	= F ((+N) LOG (NPFEA), (+N) LOG (GEDU#. 1 / NP.1), (+) LOG (CP#. 1 / NP.1), (-) LOG (UNEMP.1))
E125	LW	= F ((+N) CEMP, (+) LW.1)
E126	LOG (HOW)	= F ((-N) LOG (LPI.1), (+) LOG (GDP#. 1 / GDP#. 2))
E127	LOG (ITI# / NHI#)	= F ((+N) LOG (TECHA#)) Type A (JPN)
E128	LOG (ITI# / NHI#)	= F ((+N) LOG (TECHA#), (+) LOG (ITI#. 1/NHI#)) Type B (USA)
E129	LOG (LCLFF) <DME>	= F ((+N) LOG (NPFEA))
DEF	LCLF	= LCLFM + LCLFF
DEF	UNEMP	= UNEMPR * LCLF

DEF CEMP = LCLF - UNEMP

DEF NHFCS# = NHFCS#. 1 + NHI# - DNHC#

DEF RDOTH# = RD# - RDBE# - RDGOV#

DEF EDUA# = EDUA#. 1 + GEDU# – OBEDU#

DEF OBEDU# = 0.025* EDUA#. 1

DEF TECHA# = TECHA# .1 + RD# + TECHM# - OBTECH#

DEF OBTECH# = 0.05* TECHA# .1

* If data on NHI# are not available, use GFCF# in place of NHI#.

<AME>: DEVELOPED MARKET ECONOMIES

<DGE>: DEVELOPING ECONOMIES

<EIT>: ECONOMIES IN TRANSITION.

<DME>: DGE + EIT

+----------+

2. EXPENDITURE ON GDP < AT CONSTANT PRICES >: (E140 – E199)

+----------+

E140 LOG (E#MAT <AME, AME>) = F ((+N) LOG (GDP#<J>),
(- N) LOG (PES<I>.1 / PESAME.1),
(- N) LOG (PES<I>.1*FERSI<J>.1 /CPI<J>.1))
Type A

E141 E#MAT <AME, AME> = F ((+N) GDP#<J>,
(- N) PES<I>.1 / PESAME.1,
(- N) PES<I>.1*FERSI<J>.1 /CPI<J>.1))
Type B

E142 LOG (E#MAT<JPN, USA>) = F (+N) LOG (GDP#<J>),
(-N) LOG (PES<I>.1*FERSI<J>.1 / CPI<J>.1),
(+N) LOG (SUMT4 (RD#<I>.1))

E143 LOG (E#MAT<USA, JPN>) = F ((+N) LOG (GDP#<J>),
(- N) LOG (PES<I>.1 / PESAME.1),
(- N) LOG (PES<I>.1*FERSI<J>.1*(1+CTR@<J>.1+NTB@<J>.1) / CPI<J>.1),
(+N) LOG (SUMT4 (RD#<I>.1))

E144 E#MAT<DME, AME> = F ((+N) MTFOB#<J>.1,
(+N) GDP#<J>,
(- N) PES<I>.1 / PMS<J>.1)

E145 E#MAT < ANIES, AME> = F ((+N) GDP#<J>,
(- N) PES<1>.1 / PMS<J>.1,
(- N) PES<I>.1*FERSI<J>.1 / CPI<J>.1)

E146 E#MAT <CHN, AME> = F ((+N) GDP#<J>,
(- N) PES<1>.1 / PMS<J>.1,
(- N) PES<I>.1*FERSI<J>.1 / CPI<J>.1)

E147 E#MAT <WORLD, DME> F (+N) ETFOB#<J>.1 *PES<J>.1/PMS<J>.1,
(+N) GDP#<J>,
(-N) (PES<I>.1 / PMS<J>.1)

E148 E#MAT<WRD, CHN> = F ((+N) GDP#<J>,
(- N) PES<I>.1*FERSI<J>.1*
(1+CTR@<J>.1+NTB@<J>.1) / CPI<J>.1)

E149 E#MAT<VEC, CHN>) = F ((+N) GDP#<J>,
(- N) PES<I>.1*FERSI<J>.1*
(1+CTRV<J>.1+NTB@<J>.1) / CPI<J>.1)

*E#MAT<I, J> relates to exports from COUNTRY<I> to COUNTRY<J>

E150 LOG (CP# <AME>) = F ((+N) LOG (GDP#),
(- N) LOG (CPI / ((CPI + CPI.1) / 2),
(- N) LOG (IC.1), (+) LOG (CP#. 1))

A >

E151 CP# <AME> = F ((+N) GDP#,
(- N) (CPI / ((CPI + CPI.1) / 2))*1000,
(- N) ICC.1*1000, (+) CP#. 1)

Type B>

E152 LOG (CP# <JPN>) = F ((+N) LOG (DFI# - (TPI# +TYC#)),
(- N) LOG (CPI / ((CPI+CPI.1) /2),
(- N) LOG (ICC.1), (+N) LOG (MTD.1 + SMV.1)/ CPI.1))

<Type C> JPN

E153 LOG (CP# <USA>) = F ((+N) LOG (COMPE# - TPI#),
(+N) LOG (OS# - TYC#),
(- N) LOG (CPI / ((CPI+CPI.1) /2),
(- N) LOG (ICC.1), (+N) LOG (SMV.1/ CPI.1))

<Type D> USA

E154 LOG (CP# <EU>) = F ((+N) LOG (COMPE# - TPI#),
(+N) LOG (OS# - TYC#),
(- N) LOG (CPI / ((CPI+CPI.1) /2),
(-N)LOG(ICC.1),(+N)LOG(CP#.1)) CPI.1))

<Type E > EU

E155 CP# <EU> = F ((+N) (COMPE# - TPI#),
(+N) (OS# - TYC#),
(- N) (CPI / ((CPI+CPI.1) /2)) *1000,
(- N) ICC.1*1000, (+) CP#. 1)

> Remaining members of EU

E156 CP# <DME> = F ((+N) GDP#, (+) CP#. 1)

*

E157 CP # <NIES &ASEAN> = F ((+N) GDP#,
(- N) (CPI / ((CPI + CPI.1) / 2)*1000,
(- N) ICC.1*1000, (+) CP#. 1)

E158 CP# <EIT> = F ((+N) GDP#, (+) CP#. 1)

E159 LOG (NHI#<AME>) = F ((+N) LOG (OS#. 1 - TYC#. 1), (-N) LOG (IP.1),
(+N) LOG (ETFOB#. 1),
(+N) LOG (SUMT3 (RD#. 1))

Type A (AUS, NZL, BEL, DNK, FRA, GRC, LUX,
PRT, AUT, FIN)

E160 DOT (NHI# <AME>) = F ((+N) (OS#. 1 - TYC#. 1) / NHFCS#. 1 - IP.1/100,
(+N) DOT (ETFOB#. 1),
(+N) DOT (RD#. 1))

Type B (CAN, DEU, IRL, ITA, NLD, GBR,
NOR, SWE, CHE)

E161 DOT (NHI# <AME>) = F ((+N) (OS#. 1 - TYC#. 1) / NHFCS#. 1 - IP.1/100,
(+N) DOT (ETFOB#. 1),
(+N) DOT (RD#. 1),
(+N) ITI#. 1 / NHI#. 1,
(-N) DOT (CUR.1)

Type C (USA)

E162 DOT (NHING# <JPN>) = F ((+N) (OS#. 1 - TYC#. 1) / NHFCS#. 1 - IP.1/100,
(+N) DOT (ETFOB#. 1),
(+N) DOT (RD#. 1),
(+N) ITI#. 1 / NHI#. 1）
Type D (JPN)

E163 NHI# <DME> = F ((+N) GDP#. 1,
(+N) ETFOB#. 1*PES.1 / PMS.1,
(+N) FCI.1 / PMS.1)

E164 NHI# <NIES & ASEAN> = F ((+N) GDP#. 1,
(- N) IP.1*1000, (+N) ETFOB#. 1*PES.1/PMS.1,
(+N) FCI.1 / PMS.1)

E165 LOG (HI#) = F ((+N) LOG (GDP#),
(-N) LOG (IH.1),
(-N) LOG (PHI.1))

E166 IIS# = F ((+N) GDP#, (-) IP.1*1000,
(+) ((WPI / ((WPI+WPI.1) / 2)))*1000)

*In case of production oriented model in DME and PME, IIS# should be treated as residual variables

E167 E# = F ((+) ETFOB#)

E168 M# = F((+) MTFOB#)

E174 LOG (CG#) = F ((+) LOG (GDP#. 1)) Type A

E169 LOG (CG#) = F ((+) LOG (GE#)) Type B

E170 LOG (CG#)<JPN> = F ((+) LOG (GE#.1)) Type C

E171 LOG (PFCF#)<JPN> = F ((+) LOG (GE#.1 - CG#.1))

DEF NHI#<JPN> = NHING# + PFCF#

DEF GDP# = E# - M# + CP# + CG# + NHI# + HI# + IIS#

DEF IS# = IS#. 1 + IIS#

DEF GFCF# = NHI# + HI#

*If HI# data are not available, HI# should be treated as nil

DEF GFCF# = NHI#

DEF CAPM# = (ETFOB#*PES+ FCI)/ PMS

DEF ETFOB# = E#MAT<SUMJ>

DEF MTFOB# = E#MAT<SUMI>

*Notes:

1) If projected GDP# is larger than GDPP#, GDP# should be replaced by GDPP#. In this case IIS# should be Obtained as residual using the identity on GDP#. The system seems likely to be behaved as production oriented Model.

2) If there are needs to convert to GDP# components at constant prices to original data based on national currency unit, they should be multiplied by FERS.1995.

+----------+

3. INCOME DISTRIBUTION: PROFIT - WAGE: (E200 – E249)

+----------+

E200 OS# = F ((+N) GDP#, (- N) IP.1*1000, (+N) (PES.1 / PMS.1)*1000

E201 OS# <JPN> = F ((+N) (GDP# - COMPE # - DNHC#), (- N) IP.1*1000,
(+N) (PES.1 / PMS.1)*1000、
(+N) (ETFOB.1 + ICII.1) *FERSI .1/ WPI.1)

E202 CQE# = F ((+N) OS#, (+) CQE#. 1)

E203 PUE# = F ((+) OS#, (+) PUE#. 1)

E204. HPI# = F ((+) OS#, (+) HPI#. 1)

E205 DOT (WSEI <AME>) = F ((+N) DOT (CPI.1), (+N) DOT (LPI),
(+N) DOT2 (OS.1, GDP.1), (- N) UNEMPR.1)

E206 DOT (WSEI <DME>) = F ((+N) DOT (CPI.1), (+N) DOT (LPI))

E207 DOT (WSEI<EIT>) = F ((+N) DOT (CPI.1), (+N) DOT (LPI))

DEF LPI = (GDPP# / CEMP) / (GDPP#. 1995 / CEMP.1995)

DEF OS = OS# * PNHI

DEF GGO# = OS# - CQE# - PUE#

DEF COMPE = WSEI * LW * (COMPE.1995 / LW.1995)

DEF COMPE# = COMPE / CPI

DEF DFI# = COMPE# + OS#

DEF DFI = COMPE + OS

DEF STDC# = GDP# - DFI# - DFC# - TI# + SUB#

DEF PUE = PUE# /PGDP

DEF HPI = HPI# /PGDP

DEF COE = COE#/PGDP

+----------+

4. PRICES: (E250 - E299)

+----------+

E250 DOT (WPI) = F ((+N) DOT (PM), (+N) DOT 2(WSEI, LPI),
(+N) DOT (IV#. 1), (+) DOT (WPI.1))

E251 DOT (CPI) = F ((+N) DOT (PM), (+) DOT (WSEI), (+) DOT (IV#. 1),
(+) DOT (CPI.1))

E252 DOT (CPI <JPN>) = F ((+N) (DOT (PM) + DOT (CTR@) + DOT (NTB@)),
(+N) DOT (WSEI), (+N) DOT (IV#. 1), (+N) TCR@/100)

E253 DOT (PCP) = F ((+N) DOT (CPI))

E254 DOT (PCG) = F ((+N) DOT (CPI.1))

E255 DOT (PNHI) = F ((+N) DOT (WPI), (+N) DOT2 (NHI#. 1, GDP#. 1),
(+) DOT (PNHI.1))

E256 DOT (PHI) = F ((+N) DOT (PNHI), (+N) DOT (WSEI), (+) DOT (PHI.1))

E257 DOT (PEO) = F ((+N) DOT (PESAME.1),
(+N) DOT 2 (OILG.1, ENGYRG.1),
(+) DY74, (+) DY79, (+) DY90, (+) DY2000)

*DY74: DUMMY VARIABLE, 1974 =1, REST OF THE YEARS = 0

*DY79: DUMMY VARIABLE, 1979 =1, REST OF THE YEARS = 0

*DY90: DUMMY VARIABLE, 1990 =1, REST OF THE YEARS = 0

*DY2000: DUMMY VARIABLE, 2000=1, REST OF THE YEARS = 0

E258 DOT (PEC) = F ((+N) DOT (GDP#G.1), (- N) (ICAME.1),
(-N) DOT (FERIAME.1), (+) DOT (PEC.1))

E279 DOT (PEGOLD) = F ((+N) DOT (PESAME), (+N) DOT (PEC),
(+) DY80)

```
E259    DOT (PES <AME>)          = F ((+N) DOT2 (WPI.1, FERSI.1), (+N) DOT2 (WSEI, LPI),
                                    (+N) DOT (PESAME.1), (- N) DOT (FERSI.1))

E260    DOT (PES <CEAME>)        = F ((+N) DOT2 (WPI.1, FERSI.1), (+N) DOT2 (WSEI, LPI),
                                    (+N) DOT (PESAME.1), (+N) DOT (PEC),
                                    (- N) DOT (FERSI.1))

E261    DOT (PES <USA>)          = F ((+N) DOT (WPI.1), (+N) DOT 2 (WSEI, LPI),
                                    (+N) DOT (PESAME.1), (+N) DOT (PEC),
                                    (+N) DOT (FERIAME.1))

E262.   DOT (PES <DME>)          = F ((+N) DOT (PEC), (+N) DOT (PESAME.1),
                                    (+N) DOT2 (WPI.1, FERSI.1),
                                    (+N) DOT2 (WSEI.1, FERSI.1))
                                                <NON-OIL EXPORTING DME>

E263    DOT (PES <OILEXP>)       = F ((+N) DOT (PEO), (+N) DOT2 (WPI.1, FERSI.1),
                                    (+N) DOT 2 (WSEI.1, FERSI.1))

E264    DOT (PES    <EIT>)       = F ((+N) DOT (PEC),      (+N) DOT (PESAME.1),
                                    (+N) DOT2 (WPI.1, FERSI.1),
                                    (+N) DOT2 (WSEI.1, FERSI.1))

E265    DOT (PECOAL)             = F ( (+N) DOT (PEO), (+N) DOT2 (COAL<SUM>.1, ENGYRG.1))

E266    DOT (PEGAS)              = F ( (+N) DOT (PEO), (+N) DOT2 (GAS<SUM>.1, ENGYRG.1))

E267    DOT (POIL)               = F ( (+N) (DOT (PEO) + DOT (FERSI)), (+N) DOT (WPI.1),
                                    (+N) DOT2 (OIL.1, ENGYR.1))

DEF     POIL                     =    POIL * (1    + CTAXRO@ / 100)

E268    DOT (PCOAL)              = F ( (+N) (DOT (PECOAL + DOT (FERSI)), (+N) DOT (WPI.1)
                                    (+N) DOT2 (COAL.1, ENGYR.1))

DEF     PCOAL                    =    PCOAL * ( 1    +    CTAXRC@ / 100 )
```

```
E269    DOT (PGAS)          = F ((+N) (DOT (PEGAS + DOT (FERSI)),
                                  (+N) DOT (PELC), (+N) DOT (WPI.1)
                                  (+N) DOT2 (GAS.1, ENGYR.1))

DEF     PGAS                =  PGAS * ( 1  +  CTAXRG@ / 100 )

E270    DOT (PNUCL)         = F ( (+N) DOT (WPI.1) )

E271    DOT (PELC)          = F ( (+N) DOT (WPI.1) )

E272    DOT (SPI)           = F ((+N) (OS- TYC) / NHFCS#*PNHI – IP / 100,
                                  (+N) DOT2 (M2,GDP),
                                  (+N)) (OS.1- TYC.1) / SMV.1 – IB.1 / 100,
                                  (+ N)  DOT (GDP#) – DOT (GDP#. 1),
                                  (+N) DOT (CPI) – DOT (CPI.1),
                                  (-N) DOT (FERSI) – DOT (FERSI.1),
                                  (+ N)  DOT (SPI<USA>)

E273    DOT (SPI <USA>)     = F ((+N) (OS- TYC) / NHFCS#*PNHI – IP / 100,
                                  (+N) DOT2 (M2, GDP),
                                  (+N)) (OS.1- TYC.1) / SMV.1 – IB.1 / 100,
                                  (+N) DOT (CPI) – DOT (CPI.1),
                                  (+N) DOT2 (ITI#, NHI#),
                                  (- N)  DOT (SPI.1))

E274    DOT (SPI <AME>)     = F ((+N) (OS- TYC) / NHFCS#*PNHI – IP / 100,
                                  (+N) DOT 2(M2,GDP),
                                  (+N)) (OS.1- TYC.1) / SMV.1 – IB.1 / 100,
                                  (+ N) DOT (GDP#) – DOT (GDP#. 1),
                                  (+N) DOT (CPI) – DOT (CPI.1),
                                  (+N) DOT2 (ITI#, NHI#),
                                  (+N) DOT (SPI <USA>))
```

```
E275    DOT (PLAND<JPN>)    = F ((+N) DOT (M2),
                              (+ N) DOT (GDP#) – GDP# / (GDP#+GDP#. 1) / 2,
                              (- N) DOT (FERSI) - FERSI / ((FERSI+FERSI.1) / 2),
                              (+N) DOT (GFCF#. 1),
                              (+N) DOT (SPI.1))

DEF     PE                  = PES * FERSI

DEF     PMS                 = ESMAT<SUM I> / (E#MAT <SUM I>)
```

*PMS data should be obtained from trade matrices, using PES. Do not make any adjustment.

```
DEF     PM                  = PMS * FERSI

E276    DOT (PENA)          = F ((+N) DOT (PE)

E277    DOT (PMNA)          = F ((+N) DOT (PM))

E278    DOT (PPFCF)<JPN>    = F ((+N) DOT (WPI), (+N) DOT2 (NHI#. 1, GDP#. 1),
                              (+) DOT (PPFCF))

E280    DOT (PNHING)<JPN>   = F ((+N) DOT (WPI), (+N) DOT2 (NHI#. 1, GDP#. 1),
                              (+) DOT (PNHING))

DEF     PGDP                = GDP / GDP#

DEF     PEOB                =PEO*PEOB.95
```

```
+-------------------------------------------------------------------------+
  5.  EXPENDITURE ON GDP < AT CURRENT PRICES >:
+-------------------------------------------------------------------------+

DEF     E                   = PENA * E#
```

DEF M = PMNA * M#

DEF CP = PCP * CP#

DEF CG = PCG * CG#

DEF NHI = PNHI * NHI#

DEF PFCF<JPN> = PPFCF*PFCF#

DEF NHINP<JPN> =PNHINP*NHINP#

DEF NHI<JPN> NHINP + PFCF

DEF HI = PHI * HI#

DEF IIS = WPI * IIS#

DEF GFCF = NHI + HI

*If HI data are not available, HI should be zero.

DEF GFCF = NHI

DEF GDP = E - M + CP + CG + NHI + HI + IIS

*

If there are needs to convert to current GDP components to original data based on national currencies, they should be multiplied by FERS.1995. If there are needs to convert them in terms of current US dollars, they should be divided by FERSI. If you want to reconvert them in terms of current EURO, they should be further divided by FEREURO.

*Note: E300 – E 399 are allocated to the merchandise trade model.

(See Annex – FUGI Global Merchandise Trade Model).

+----------+

6. MONEY, INTEREST RATES & FINANCIAL ASSETS: (E400– E499)

+----------+

E400 M1 = F ((+N) GDP, (-N) IN.1*1000)

Type A

E401 LOG (M1) = F ((+N) LOG (GDP#), (+N) LOG (PGDP), (- N) LOG (IN.1))

Type B: JPN

E402 MTD = F ((+N) GDP, (-N)(((IB.1 – ITD.1) / ITD.1)*1000, (+) MTD.1)

DEF M2 = M1 + MTD

E403 CCG = F ((+N) (GE – GR), (+) CCG.1

E404 LOG (CPS) = F ((+N) LOG (NHI + HI +IIS), (-N) LOG (IN.1),
(+N) LOG (MTD.1 / GDP.1), (-N) LOG (IB.1 – IP.1) / IP.1)

DEF IV# = (M2 / GDP#) / (M2 .1995 / GDP#. 1995)

E405 IN <AME> = F ((+N) (1 + DOT (CPI) – CPI / ((CPI + CPI.1) / 2)),
(+N) (1 + DOT (GDP#)-GDP# / ((GDP# + GDP#. 1) / 2)),
(+N) (1 + DOT (FERSI)), (+N) IN.1)

E406 IN <USA> = F ((+N) (1+ DOT (CPI) – CPI / ((CPI + CPI.1) / 2)),
(+N) (1+ DOT (GDP#) – GDP# / ((GDP# + GDP#. 1) / 2)),
(- N) (1 + DOT (FERIAME), (+N) IC.1)

E407 INEU = F ((+N) (1+ DOT (CPIEU) – CPIEU / ((CPIEU + CPIEU.1) / 2)),
(+N) (1+ DOT (GDP#EU)-GDP#EU/ ((GDP#EU + GDP#EU.1) / 2)),
(+N) (1+ DOT (FERIEUR)), (+N) INEU.1)

E408 IN<DME> + F (IN.1)

E409 IN<EU> = F ((+N) INEU

DEF IN<EU11> = INEU (After 2001)

E410 IC = F ((+N) IN, (+N) DOT (CPI), (- N) DOT (M2), (+N) IC.1)

Type A

E411 IC< AME> = F ((+N) IN, (+N) DOT (CPI), (- N) DOT (M2),
(+N) DOT (CCG + CPS), (+N) IC.1)

Type B: JPN, USA

E412 ICEU = F ((+N) INEU, (+N) DOT (CPIEU), (+N) ICEU.1)

E413 IC<EU> = F ((+N) ICEU)

E414 IB <AME> = F ((+N) IN, (+N) IC, (+N) IB.1)

E415 IB <JPN> = F ((+N) IN, (+N) IC)

E416 IB <USA> = F ((+N) IN, (+N) IC, (+N) IB.1)

E417 IBEU = F ((+N) IN, (+N) ICEU, (+N) IBEU.1)

E418 IB <EU> = F ((+N) IBEU)

E419 IP = F ((+N) IC)

E420 IH = F ((+N) IP)

E421 ITD = F ((+N) IP)

E422 ISEURO = F (+N) IC<USA>)

E423 LIBOR = F ((+N) ISEURO)

E424 LOG (SMV) = F ((+) LOG (SPI))

E425 ICC = F ((+N) IP)

*In case of DME, IN may be treated as exogenous variable as IN@.

+----------+

7. GOVERNMENT FINANCE: (E500 – E599)

+----------+

Type A

<< REVENUE >>

E500. GR# = F ((+N) (GDP#.1), (+) ((E#.1 + M#.1))

*Detailed Data on Government finance GR are available, use the followings;

E501 TPI# = F ((+) (COMPE#. 1 + PUE#. 1 + HPI#. 1))

E502 TYC# = F ((+N) OS#. 1)

E503 SSC# = F ((+N) (COMPE#. 1 + OS#. 1)

E504 TP# = F ((+N) GDP#. 1)

E505 TDGS# = F ((+N) GDP#. 1)

E506 TITT# = F ((+N) (MMFOB.1*FERSI.1/ PM.1)

If CTR@ data are available, use the following equation.

E509 TITT# = F ((+N) (MMFOB.1*FERSI.1/ PM.1)*CTR@)

E507 TIR# = F ((+N) GDP#. 1)

E508 NTR# = F ((+N) GDP#. 1)

DEF TD# = TPI# + TYC# + TP#

DEF TID# = TDGS# + TITT# + TIR#

DEF TR# = TD# + TID#

DEF GR# = TR# + NTR# + SSC# + GRANT#@

DEF GR = GR#*PGDP

DEF TITT = TITT# *PM

<< EXPENDITURE BY FUNCTION >>

E510 GE# = F ((+N) GR#))

*Detailed data on government finance GE are available, use the followings;

E511 GPS# = F ((+N) GR#)

E512 GDF# = F ((+N) GR#)

E513 LOG (GDF#)<USA> = F ((+N) LOG (GR#), (+N) DY8186)

* DY8186: 1981 – 86 =1, Rest of years =0

E514 LOG (GDF#)<RUS> = F ((+N)(LOG (GDF#<USA>.1 / GDP#<USA>.1),

(+N) DY8186)

E515 LOG (POS#) = F ((+) LOG (GR#))

E516 LOG (GEDU#) = F ((+) LOG (GR#))

E517 LOG (GH#) = F ((+) LOG (GR#))

E518 LOG (GSW#) = F ((+) LOG (GR#))

E519 LOG (GHC#) = F ((+) LOG (GR#))

```
E520    GSS#        = F ((+) GR#)

E521    GES#        = F ((+) GR#)

E522    GEOP#       = F ((+) GR#)

DEF     GTE#        =  GPS# + GDF# + GEDU# + GH# + GSW# + GHC# + GSS #+ GES# +
                       GEOP#

DEF     GE#         =  GTE# + GLMR#@

DEF     GE          = GE#*PGDP

DEF     GDOS        = GR  - GE

DEF     GDOS#       = GR# - GE#

E523    DGD         = F ((+) (GE - GR))

E524    GBR         = F ((+) (DGD)

DEF     GDO         = GDO.1 + DGD

DEF     GDOGDP      = (GDO /GDP)*100

DEF     GBRGE       = (GBR /GE)*100

<< EXPENDITURE BY ECONOMIC TYPE >>

E525    GCE#        = F ((+) GE#)

E526    GIP         = F ((+) GDO.1 * IB.1 / 100)

E527    CAE#        = F ((+) (GHC#+GES#))
```

Type B <JPN>Type

<< REVENUE >>

E551 LOG (TPI) = F ((+N) LOG (COMPE + PUE + HPI))

E552 LOG (TYC) = F ((+N) LOG (OS))

E553 LOG (TP) = F ((+N) LOG (GDP.))

E554 LOG (TC) = F ((+N) LOG (GDP*TCR@)/100))

E555 TITT = F ((+N) MMMOB*FERSI*CTR@)

E556 LOG (TIR) = F ((+N) LOG (GDP))

E557 LOG (NTR) = F ((+N) LOG (GDP))

E558 LOG (SSC) = F ((+N) LOG (COMPE + OS))

DEF TD = TPI + TYC + TP

DEF TID = TC + TITT + TIR

DEF TR = TD+ TID

DEF GR = TR + NTR

DEF GBR = GE – GR

DEF RG = GR + GBR

DEF GR# =GR/PGDP

DEF RG# =RG/PGDP

```
DEF         TPI#              =TPI/PGDP

DEF         TYC#              =TYC/PGDP

 << EXPENDITURE BY FUNCTION >>

E561        GDS                = F ((+N) (GDO.1 * IB.1 / 100))

E562        LOG (GLPF)         = F ((N) LOG (GR))

E563        LOG (GSW)          = F ((N) LOG (GR))

E564        LOG (GH)           = F ((+N) LOG (GSW))

E565        LOG (GEDU)         = F ((N) LOG (GR))

E566        LOG (GEST)         = F ((+N) LOG (GEDU))

E567        LOG (GDF)          = F ((N) LOG (GR))

E568        LOG (GPW)          = F ((N) LOG (GR))

E569        LOG (GEOP)         = F ((N) LOG (GR))

E570        GBPREP             = F ((+N) GDO.1, (-N) GDS.1)

DEF         GDOS               = GR – GE

DEF         GE                 = GDS + GLPF + GSW + GEDU + GDF +GPW + GEOP


DEF         GBR                = GE – GR

E571        GDO                = F ((+N) (GDO.1 + GBR – GBPREP))
```

DEF GDOGDP = (GDO/GDP)*100

DEF GBRGE = (GBR/GE)*100

DEF GDS# = GDS/PGDP

DEF GLPF# = GLPF /PGDP

DEF GSW# = GSW /PGDP

DEF GH# = GH/ PGDP

DEF GEST# = GEST /PGDP

DEF GDF# = GDF/PGDP

DEF GPW# = GPW /PGDP

DEF GEOP# = GEOP /PGDP

DEF GDOS# = GDOS /PGDP

DEF GE# = GE /PGDP

+----------+

- INTERNATIONAL BALANCE OF PAYMENTS: (E600 – E659)

+----------+

E600 EMFOB = F ((+) ETFOB)

E601 MMFOB = F ((+) MTFOB)

E602 SC = F ((+) ETFOB)

E603 SD = F ((+) MTFOB)

*If data are available, use the following equations.

E604	SCTPN	= F ((+) ETFOB)
E605	SDTPN	= F ((+) MTFOB)
E606	SCTR	= F ((+N) FERSI*1000, (+N) DOT (GDP#. 1)*1000, (- N) DOT (CPI)*1000, (+N) GDPS.1 / NP.1)
E607	SDTR	= F ((- N) FERSI*1000, (+N) GDPS.1 / NP.1, (+N) GDP#. 1*CPI.1 / FERSI.1))
E 608	LOG (SCOTH)	= F ((+N) LOG (GDPS.1 / NP.1), (+N) LOG ((RD#. 1 / GDP#. 1))
E609	LOG (SDOTH)	= F ((+) LOG (GDPS.1 / NP.1))
E610	DIA <AME>	= F ((+N) GDPS, (+N)) (WSEI / FERSI / LPI) / (WSEIAME/ FERIAME/ LPIAME)* 1000) (- N) (OS# / GDP#) / (OS#AME / GDP#AME)* 1000, (- N) (FERSI / (FERSI + FERSI.1) / 2) *1000)
E611	DIA<DME>	= F ((+N) GDPS, (- N) (OS# / GDP#) / (OS#AME / GDP#AME)*1000, (- N)(FERSI / (FERSI + FERSI.1) / 2))*1000)
E612	DIL	= F ((+N) GDPS, (- N) ((WSEI / FERSI / LPI) / (WSEIAME/ FERIAME / LPIAME)) *1000, (+N) ((OS# / GDP#) / (OS#AME / GDP#AME))*1000, (+N) DIA<SUM>)

```
E613    DIL <USA>           = F ((+N) GDPS, (+N)((OS# / GDP#) / (OS#AME / GDP#AME))
                              *1000,
                               (+N) FERIAME*1000, (+N) DIA <SUM>)

E614    POINA               = F ((+N) GDPS,
                                    (+N) (ICAME / IC) * 1000,
                                    (+N) ((OS# / GDP#) / (OS#AME / GDP#AME))*1000,
                                    (- N)((1 / FERSI) / ((1 / FERSI+1 / FERSI.1) /2))*1000)

E615    POINL               = F ((+N) GDPS,
                                     (- N) (ICAME / IC)* 1000,    (+N) SPI*1000)

E616    POINL <USA>)        = F ((+N) (GDP# / GDP#AME)*1000,
                                    (- N) (ICAME / IC)*1000,
                                    (+N)    SPI*1000,
                                    (+N)    FERIAME *1000)

E617    ICIIDIA             = F ((+N) DIAO.1)

E618    IDIIDIL             = F ((+N) DILO.1)

E619    ICIIPI              = F ((+N) (POINA.1+POINA.2)*ISEURO.1)

E620    IDIIPI              = F ((+N) (POINL.1+POINL.2)*IB.1)

E621    INCOMEC             = F ((+N) ICII)

E622    INCOMED             = F ((+N) IDII)

DEF     ICII                =   ICIIDIA + ICIIPI

DEF     IDII                =   IDIIDIL + IDIIPI

DEF     ETFOB               =   ESMAT<SUM I>

DEF     MTFOB               =   ESMAT<SUM J >
```

DEF TB = ETFOB – MTFOB

DEF TBB = EMFOB – MMFOB

DEF EMFOB<SUM> = MMFOB<SUM>

* EMFOBD and MMFOBD should control the world total.

DEF SC = SCTPN + SCTR + SCOTH

DEF SD = SDTPN + SDTR + SDOTH

DEF SC<SUM> = SD<SUM>

* SCD and SDD should control the world total.

DEF INCOMEC <SUM> = INCOMED <SUM>

*INCOMECD and INCOMEDD should control the world total.

DEF CBT = TBB + SC – SD

DEF CTC = CTCGG@ + CTCOS@

DEF CTD = CTDGG@ + CTDOS@

DEF CUT = CTC – CTD

DEF CTC<SUM> = CTD<SUM>

* CTCD and CTDD should control the world total

DEF CBP = CBT + INCOMEC – INCOMED + CUT

DEF DIB = DIL – DIA

DEF POINB = POINL – POINA

DEF ESMAT <I, J> = E#MAT<I, J> * PES<I>

DEF GDPS = GDP / FEERSI

DEF DIAO = DIAO.1 + DIA + FADEDIA@

DEF DILO = DILO.1 + DIL+ FADEDIL@

+----------+

9. INTERNATIONAL FINANCE: (E700 – E799)

+----------+

<< OFFICIAL DEVELOPMENT ASSISTANCE >>

E700 ODA = F ((+) GDPS)

E701 ODAB = F ((+) ODA)

DEF ODAM = ODA - ODAB

E702 ODAMAT <AME, WRD> = F ((+) ODAB<I>)

DEF ODABR = ODAMAT<SUM I>)

E703 ODAMR = F ((+) ODAM <SUM>)

* If ODA MAT are not available, use the following E704

E704 ODABR = F ((+) ODAB < SUM >)

DEF ODAR = ODABR + ODAMR

E705 ODATC = F ((+) ODA)

E706 ODATCR = F ((+) ODATC<SUM>)

<< PRIVATE FOREIGN DIRECT INVESTMENT TO DME >>

E707 PFDIMAT <WRD, WRD> = F ((+) PFDI<I>)

DEF PFDIR = PFDIMAT<SUM I>

E708 PFDI = F ((+N) DIA)

* If PFDI MAT are not available, use the following E709

E709 PFDIR = F ((+N) PFDI<SUM>)

DEF PFDIO = PFDIO.1 + PFDI - FADEPIA@

DEF PFDIL = PFDIL.1 + PFDIR - FADEPIL@

DEF FCI = ODABR + ODAMR + PFDIR

<< EXTERNAL DEBT >> < for DME >

- LONG - TERM DEBT -

< PUBLIC AND PUBLICLY GUARANTEED (PPG)>

E710 DISBOC = F ((+N) ODAR)

E711 DISBPC = F ((+N) NHI / FERSI, (-N) DSR.1, (-N) CBP, (-N) PFDIR.1)

E712 PREPOC = F ((+N) DODOC.1)

E713 PREPPC = F ((+N) DODPC.1, (-) DSR.1)

E714 IDEBTOC = F ((+N) LIBOR)

E715 IDEBTPC = F ((+N) ISEURO)

E716 INTOC = F ((+) (DODOC.1 * IDEBTOC/100))

```
E717    INTPC     = F ((+) (DODPC.1 * IDEBTPC/100))

E718    DODOC     = F ((+) (DODOC.1 + DISBOC - PREPOC))

E719    DODPC     = F ((+) (DODPC.1 + DISBPC - PREPPC))

DEF     DISB      = DISBOC + DIBPC

DEF     PREP      = PREPOC + PREPPC

DEF     INT       = INTOC + INTPC

DEF     TDS       = TDSOC + TDSPC

DEF     TDSOC     = INTOC + PREPOC

DEF     TDSPC     = INTPC + PREPPC

DEF     DOD       = DODOC + DODPC
```

< PRIVATE NONGUARANTEED (PNG)>

```
E720    DISBPNG     = F ((+N) NHI / FERSI, (-N) DSR.1, (-N) CBP, (-N) PFDIR.1)

E721    PREPPNG     = F ((+N) DODPNG.1, (-) DSR.1))

E722    IDEBTPN     = F ((+N) ISEURO)

E723    INTPNG      = F ((+N) DODPNG.1 * IDEBTPN/100)

E724    DODPNG      = F ((+N) (DODPNG.1 + DISBPNG - PREPPNG))

DEF     TDSPNG      = PREPPNG + INTPNG
```

< SHORT-TERM DEBT >

E725 DODS = F ((-N) SUMT2 (CBP.1), (-N) IMFCRE.1)

< USE OF IMF CREDIT >

E726 IMFCRE = F ((-N) CBP)

< TOTAL EXTERNAL DEBT >

DEF EDT = DOD + DODS + IMFCRE

< DEBT INDICATORS >

- PUBLIC -

DEF DER = DOD / (EMFOB + SC)

DEF DGR = DOD / GDPS

DEF DSR = TDS / (EMFOB + SC)

- TOTAL -

DEF DERT = EDT / (EMFOB + SC)

DEF DGRT = EDT / GDPS

DEF DSRLT = (TDS + TDSPNG) / (EMFOB + SC)

+----------+

10. FOREIGN EXCHANGE RATE: (E800-849)

+----------+

<<PER DOLLAR RATE>>

E800 FERSI<AME> =F ((+N) PGDP.1/PGDP<USA>.1, (+N) FERSIAME.1, (+) FERSI.1)

E801 LOG (FERIEUR) = F ((+N) LOG (PGDPEU.1 / PGDP<USA>.1),
(- N) LOG (ESMATEA.1 /ESMATAE.1),
(+N) LOG ((IC<USA>.1 / ICEU.1),
(+) LOG (FERIEUR.1))

E802 DOT (FERSI <EEA>) = F ((+N) DOT (FERIEUR)

E803 LOG (FERSI <JPN>) = F ((+N) LOG (PGDP.1 / PGDP<USA>.1),
(- N) LOG (ESMAT<JPN, USA>.1 /ESMAT<USA, JPN>.1),
(+N) LOG ((IC<USA>.1 / IC.1),
(+) LOG (FERIEUR))

E804 DOT (FERSI <EU>) = F (+N) DOT (FERIEUR)) (Before 2001)

DEF FERSI <EU11> = (1+ DOT (FERIEUR))* FERSI.1 (After 2001)

E805 FERSI <DME> = F ((+N) PE.1 / PE.1<USA>.1, (-N) CBP.1 / GDPS.1,
(+N) FERIAME.1, (+) FERSI.1)

DEF FERSI <DME> = 1 US Dollar direct link type >

E806 FERSI <EIT> = F ((+N) PE.1 / PE<USA>.1, (+N) FERIAME.1, (+) FERSI.1)

DEF FERS = FERSI * FERS.1995

DEF FEREURO = FERIEUR* FEREURO.1995

DEF FERE = FERS / FEREURO

DEF FERE<EU11> =EUROCR@ @
2002)

DEF FERSI <USA> = 1.00

DEF FERS <USA> = $1.00

DEF TERRA = PEO/3 + PEC/3 + PEGOLD/3

DEF TERRA.1995 = $1.00 (TERRA exchange rate per US dollar = TERRA 1.00 in 1995)

DEF TERRAS = 1 / TERRA (TERRA exchange rate per US dollar)

DEF TERRASI = TERRAS / TERRA.1995

<< DEFINITIONS>>

DEF CPIAME = WEIGHT (CPI, GDP#, <AME>)

DEF CPIEU = WEIGHT (CPI, GDP#, <EU>)

DEF EGYRG = ENGYR <SUM>)

DEF EMTFOB# = ETFOB# + MTFOB#

DEF ESMATEA = ESMAT <EU, USA>

DEF ESMATAE = ESMAT < USA, EU >

DEF FERIAME = WEIGHT (FERSI, GDP#, <AME>)

DEF FERIEUR = WEIGHT (FERSI, GDP#, <EU>)

DEF PESAME = ETFOB <SUMA> / ETFOB# <SUMA>

DEF GDP#AME = GDP# <SUMA>

DEF GDP#E = GDP# * FERS.1995 / FEREURO.1995

```
DEF     GDP#EU          = GDP# <SUMEU>

DEF     GDP#DGE         = GDP# <SUMD>

DEF     GDP# G          = GDP# < SUM>

DEF     GDP#N           =   GDP# * FERS.1995 / NCUCR@
                                                (GDP#N<USA> = GDP#<USA>)
DEF     GDP#PPP         =   GDP# / FERS*FERSPPP.1995
                                                (GDP#PPP<USA> = GDP#<USA>)

DEF     GDPE            =   GDP * FERS.1995 / FEREURO

DEF     GDPN            =   GDP * FERS.1995 / NCUCR@
                                                  (GDPN<USA> = GDP<USA>)

DEF     GDPS            =   GDP / FERSI             (GDPS<USA>    = GDP<USA>)

DEF     GDPSPPP         =   GDPS / FERS* FERSPPP.1995 (GDPSPPP<USA> = GDPS<USA>)

DEF     GDPSG           = GDPS <SUM>

DEF     ICAME           = WEIGHT (IC, GDP#, <AME>)

DEF     ICEU            = WEIGHT (IC, GDP#, <EU>)

DEF     IBEU            = WEIGHT (IB, GDP#, <EU>)

DEF     INEU            = WEIGHT (IN, GDP#, <EU>)

DEF     LPIAME          = GDPP#<SUMA> / CEMP<SUMA>

DEF     NPG             = NP <SUM>

DEF     NPAME           = NP <SUMA>
```

DEF NPDGE = NP <SUMD>

DEF OILG = OIL <SUM>

DEF OS#AME = OS# <SUMA >

DEF PGDPEU = WEIGHT (PGDP, GDP#, <EU>)

DEF WSEIAME = WEIGHT (WSEI, GDP#, <AME>)

Note: NCU is national currency unit. NCU <US> is set at Millions of US dollars = 1. If a given country's currency unit is Billions, NCU should be 1000.

+---+

11. DEVELOPMENT INDICATORS: (E850 – E869)

+---+

<DOMESTIC AND INTERNATIONAL INCOME DISPARITY>

E850 LOG (MPSED) = F ((-N) LOG (RICH20))

E851 LOG (POOR20) = F ((- N) LOG (RICH20.1), (+N) LOG (GDP#. 1 / NP.1))

E852 LOG (RICH20) = F (+ N) LOG (MPSED.1), (- N) LOG (IPCIDG.1)

DEF IPCIDG = (GDP# / NP) / (GDP#G / NPG)

DEF IPCIDA = (GDP# / NP) / (GDP#AME/ NPAME

DEF IPCIDD = (GDP# / NP) / (GDP#DGE/ NPDGE)

<< GEWS INDICATORS >>

II DEVI Failures in Development

II-1	GDP#DOT	Poor Economic Growth
II-2	PCIDOT	Stagnant Per Capita Income Growth
II-3	IPCIDG	International Per Capita Income Disparities
II-4	CPIDOT	High Domestic Prices
II-5	UNEMPR	High Unemployment Rate
II-6	CBPGDP	CBP TO GDPS
II-7	FERSIDOT	Depreciated Foreign Exchange Rate
II-8	DSR	High Debt Service Ratio
II-9	DILGDP	Decreased Capital Inflow to GDPS
II-10	CAPMGDP	Capacity to imports to GDP#
II-11	FOODPOP	Food Population Imbalance
II-12	MPSED	Mass Poverty

****

VI: PEACE AND SECURITY: (E870 – E879)

****

E870	LOG (POLCNFL)	= F ((+N) LOG (MPSED), (+N) LOG (UNEMP))
E871	LOG (AOROL)	= F ((+N) OG (POLCNFL), (+N) LOG (UNEMP))
E872	LOG (INSURGE)	= F ((+N) LOG (AOROL.1), (+N) LOG (UNEMP.1))

E873 LOG (INTWAR) = F ((+N) LOG (INSURGE), (+) LOG (IOED), (+) LOG (EDED@), (+) LOG (ROED@))

E874 LOG (INTLWAR) = F ((+) LOG (INTWAR), (+) LOG (MILAID@))

<< GEWS INDICATORS >>

III	PSI	Absence of Peace and Security
III-1	POLCNFL	Political Conflicts and Violence
III-2	AOROL	Absence of Rule of Law
III-3	GDFGDP	Military Expenditures to GDP
III-4	INSURGEN	Insurgency
III-5	INTWAR	Internal War
III-6	INTLWAR	International Conflicts and War

****

VII: HUMAN RIGHTS: (E880 – E889)

****

E880 LOG (BHENEED) = F ((+N) LOG (GSW# / GDP#), (+N) LOG (GHC#/GDP#), (+N) LOG (IFEEXP))

E881 LOG (IOED) = F ((+N) LOG (POLCNFL))

E882 LOG (AHLCR) = F ((+N) LOG (GEDU# / GDP#))

E883 LOG (DPNPR) = F ((-N) LOG (ENVI), (-N) LOG (DEVI), (-N) LOG (PSI),
(-N) LOG (HRI),
(+ N) LOG (DP<SUM>.1 / NP <SUM>.1))

E884 LOG (DPRNPR) = F ((+N) LOG (IPCIDG.1), (-N) LOG (UNEMP.1))

DEF DP = DPNPR * NP

DEF DPR = DPRNPR * NP

DEF CLDP = CLDP.1 + DP - DDP@

<< GEWS INDICATORS >>

IV	VHRI	Violation of Human Rights
IV-1	BHENEED	Basic Human Existence Needs
IV-2	IOED	Ideology Oppression
IV-3	EDED	Ethnic Differentiation
IV-4	ROED	Religious Oppression
IV-5	GEDGDP	Educational Expenditures to GDP
IV-6	GSWGDP	Social Security Expenditures to GDP
IV-7	AHLCR	Human and Cultural Rights

****

* VIII: HEALTH CARE (E900 – E919)

****

E900 LOG (HLTH) = F ((+N) LOG (GH#. 1 GDP#. 1), (+N) LOG (GDP#. 1 / NP.1))

E901 LOG (ACCH) = F ((+N) LOG (GH#. 1 /NP.1), (+N) LOG (GSW#. 1 / GDP#. 1))

E902 LOG (H2OSAFE) = F ((+N) LOG (GDP#. 1 / NP.1), (-N) LOG (WATPOL.1))

E903 LOG (SAFERU) = F ((+N) LOG (GDP#. 1 / NP.1), (-N) LOG (WATPOL.1))

E904 LOG (PHYS) = F ((+N) LOG (HLTH.1), (+N) LOG (GH#. 1 / GDP#. 1))

E905 LOG (NURS) = F ((+N) LOG (PHYS.1), (+N) LOG (GH#. 1+ GSW#. 1) /GDP#. 1,
(+N) LOG (NPO65.1 / NP.1))

E906 LOG (BEDS) = F ((+N) LOG (NURS.1), (+N) LOG (GH#. 1 + GSW#. 1) /GDP#. 1,
(+N) LOG (NPO65.1 / NP.1))

E907 LOG (BRTC) = F ((+N) LOG (NURS.1 / NATY.1), (+N) LOG (HLTH.1))

E908 LOG (BRTW) = F ((- N) LOG (GDP#. 1 / NP.1), (- N) LOG (GH#. 1/ GDP#. 1))

E909 LOG (MMRT) = F ((- N) LOG (GDP#. 1 / NP.1), (- N) LOG (GH#. 1/ GDP#. 1))

E910 LOG (MALN) = F ((- N) LOG (GDP#. 1 / NP.1), (- N) LOG (GH#. 1/ GDP#. 11))

E911 LOG (ITKPROT) = F ((+ N) LOG (HLTH))

E912 LOG (IMMIDPT) = F ((+ N) LOG (HLTH))

E913 LOG (IMMMEAS) = F ((+ N) LOG (HLTH))

E914 LOG (ORTH) = F ((+ N) LOG (HLTH))

E915 LOG (TEOHR) = F ((+ N) LOG (GDP#. 1 / NP.1), (+ N) LOG (GH#. 1/ GDP#. 1))

E916 LOG (PEOHR) = F ((+N) LOG (GH#. 1 / GDP#. 1))

```
DEF        TEOHPC              = (TEOH# / NP) * 1000

DEF        PEOHPC              = (PEOH# /NP) * 1000

DEF        TEOH#               = TEOHR*GDP#

DEF        PEOH#               = PEOHR*GDP#

DEF        TEOH                = TEOH# * PGDP

DEF        PEOH                = PEOH# *PGDP
```

```
*****************************************************************
* IX:   DIGITAL DIVIDE (INFORMATION TECHNOLOGY): (E920 – E939)
*****************************************************************
<<DIGITAL DIVIDE INDICATORS>>

E920       LOG (PCPTP)         = F ((+N) LOG (GDP# / NP), (+N) LOG (EDUA# / NP),
                                    (+N)  LOG (TECHA# / NP),  (+N) LOG (NHI# / GDP#))

E921       LOG (TELMPTP)       = F ((+N) LOG (GDP# / NP), (+N) LOG (EDUA# / NP),
                                    （+N）LOG(TECHA#/NP),(+N)LOG(NHI#/GDP#.1))

E922       .LOG (INTSPTP)      = F ((+N) LOG (PCPTP), (+N) LOG (EDUA# / NP),
                                    （+N）LOG(TECHA#/NP),(+N)LOG(NHI#/GDP#.1))

E923       LOG (INTHPTP)       = F ((+N) LOG (INTSPTP), (+N) LOG (NHI#. 1 / GDP# .1))

E924       LOG (LLPTP)         = F ((+N) LOG (GDP# / NP), (+N) LOG (TECHA# / NP),
                                    (+N) LOG (NHI# / GDP#), (+N) LOG (PCPTP.1))
```

E925 LOG (MTELPTP) = F ((+N) LOG (GDP# / NP), (+N) LOG (EDUA# / NP)
(+N) LOG (TECHA# / NP), (+N) LOG (NHI# / GDP#),
(+N) LOG (PCPTP.1))

E926 LOG (TVSPTP) = F ((+N) LOG (GDP# / NP), (+N) LOG (EDUA# / NP),
(+N) LOG (TECHA# / NP, (+N) LOG (NHI# / GDP#))

<< QOL (Quality of Life) SELECTED INDICATORS>>

DEF EDUA#PC = EDUA# / NP

DEF TECA#PC = TECHA# / NP

DEF GSW#PC = GSW# / NP

DEF GH#PC = GH# / NP

DEF GDP# PPC = GDP#PPP / NP

DEF IPCIDP = (GDP#PPP / NP) / GDP#PPP<SUM> / NP<SUM>

DEF CEMPR = (CEMP / LCLF)*100

DEF LIFEEXP = (NPM/NP)*LIFEXPM + (NPF/NP)*LIFEXPF

*Important Note;

We have made reservations for equations; E940-E999.They may be used for extension of sub-systems.

+++ **GLOSARY NOTES** +++

@ : EXOGENOUS VARIABLE (Ex. GEITI@)
# : VARIABLES AT CONSTANT PRICES (Ex. GDP#)
.1 : ONE-YEAR TIME LAG (EX. GDP#. 1)
(.1995 : VALUE IN BASE YEAR OF 1995 (Ex. GDP#. 1995)
* : MULTIPLY (Ex. GDP = GDP#*PGDP
(+) : PLUS SIGN CONDITIONS OF ESTIMATED PARAMETERS

(-) : MINUS SIGN CONDITIONS OF ESTIMATED PARAMETERS

(N) : NEGLECTS “t” STATISTICS OF ESTIMATED PARAMETERS

C : VARIABLE DERIVED FROM CROSS-COUNTRY DATA (Ex. GDPAGR#C)

MAT : MATRIX VARIABLE (Ex. E#MAT, ESMAT)

LOG : NATURAL LOGARITHM

DOT : PERCENTAGE CHANGES OF A VARIABLE Ex. DOT (GDP)

DOT2 : PERCENTAGE CHANGES OF DEVIDED VARIABLES (as WSEI / LPI)
Ex. DOT2 (WSEI, LPI)

SUMJ : SUMMATION OF ROW ELEMENTS IN MATRIX

SUMI : SUMMATION OF COLUMN ELEMENTS IN MATRIX

SUMT5 : SUMMATION OVER FIVE YEARS (Ex. SUMT5 (NHI#) = NHI#+NHI#. 1…+NHI#. 4)

<SUM> : SUMMATION OF WORLD TOTAL (Ex. NPG = NP<SUM>)

<SUMA> : SUMMATION OF AME REGION

<SUMD> : SUMMATION OF DME REGION

AME : DEVELOPED MARKET ECONOMIES

DGE : DEVELOPING ECONOMIES

DME : DGE + PME

EIT : ECONOMIES IN TRANSITION

ANIES : ASIAN NEWLY INDUSTRIALIZING ECONOMIES

BRICS : BRAZIL, RUSSIA, INDIA , CHINA

OILEXP : OIL EXPORTING COUNTRIES

OECD : OECD MEMBER COUNTRIES

G5 : THE MAJOR FIVE COUNTRIES

G7 : THE MAJOR SEVEN COUNTRIES

G20 : THE MAJOR TWENTY COUNTRIES

EU : EU MEMBER COUNTRIES

EU15 : EU FIFTEEN MEMBER COUNTRIES

EURO : EURO AREA

ASEAN : ASEAN MEMBER COUNTRIES

EAC : EAST ASIAN COMMUNITY COUNTRIES

NAFTA : NORTH AMERICAN FREE TRADE AREA

VEC : VEHICLE EXPORTING COUNTRIES TO CHINA

WRD : WORLD

G : GLOBAL AGGREGATE (Ex. , NPG, CO2 G)

D : DEVIATIONS FROM ACTUAL VALUES (Ex. FERSID)

F () : FUZZY FUNCTION WHERE RELATED VARIABLES HAVE “FLUCTUATION”

** EXPLANATORY NOTES **

- FLAG.1 -

M	: MATRIX
N	: SEMI-MATRIX
V	: VECTOR
S	: SCALAR

- FLAG.2 -

T	: TIME SERIES DATA
N	: NON-TIME SERIES DATA

- FLAG.3 -

D	: ENDOGENOUS VARIABLE
X	: EXOGENOUS VARIABLE

- FLAG.4 -

F	: FLOW
R	: RATIO
P	: INDEX
S	: STOCK

- UNIT –

MD	: MILLIONS OF 1995 US DOLLARS AT CURRENT PRICES (NCU PRICES)
MD95	: MILLIONS OF 1995 US DOLLARS AT 1995 CONSTANT PRICES
MDS	: MILLIONS OF CURRENT US DOLLARS
ME	: MILLIONS OF EURO CURRENCY
ME95	: MILLIONS OF 1995 EURO
MN	: MILLIONS OF NATIONAL CURRENCY
BN95	: BILLIONS OF NATIONAL CURRENCY AT 1995 PRICES
95 =1	: INDEX NUMBER BASED 1995
%	: PERCENTAGE
TP	: THOUSANDS OF PERSONS
TD95/P	: THOUSANDS OF 1995 US DOLLARS PER PERSON
MT	: METRIC TON

MTOE	: METRIC TON OIL EQUIVALENT
TOE	: TON OIL EQUIVALEEENT
MTCE	: METRIC TON CARBON EQUIVALENT
TCE	: TON CARBON EQUIVALENT
TT	: THOUSAND TON
MM/S	: MM PER SQUARE
HA	: HECTARE
SM	: SQUARE METER
POINT	: POINTS BY EXPERT JUDGMENT (Ex. 0-100)
NU	: NO UNIT
NCU	: NATIONAL OR REGIONAL CURRENCY UNIT (Ex US DOLLAR, EURO)
PPM	: CO2 PPM
PH	: ACID RAIN
$/B	: DOLLAR / BARREL

- DATA SOURCE -

A) CD-ROM, Floppy disk and MT

IMF	: DIRECTION OF TRADE
IMF	: INTERNATIONAL FINANCIAL STATISTICS
IMF	: BALANCE OF PAYMENTS STATISTICS
IMF	: GOVERNMENT FINANCE STATISTICS
OECD	: NATIONAL ACCOUNTS STATISTICS OF OECD MEMBER COUNTRIES
OECD	: LABOUR MARKET DATA BASE OF OECD COUNTRIES
OECD	: FLOWS AND STOCKS OF FIXED CAPITAL OF OECD COUNTRIES
OECD	: DAC AID PERFORMANCE
OECD	: GEOGRAPHICAL DISTRIBUTION OF FINANCIAL FLOWS TO DEVELOPING COUNTRIES
OECD	: ENERGY STATISTICS OF OECD MEMBER COUNTRIES
OECD	: ENERGY BALANCES AND ENERGY STATISTICS OF NON-OECD COUNTRIES
OECD	: ENERGY PRICES AND TAXESTATISTICS
OECD	: MAIN SCIENCE & TECHNOLOGY INDICATORS
OECD	: HEALTH DATA
OECD	: MAIN ECONOMIC INDICATORS
UN	: POPULATION STATISTICS

UN : YEARBOOK OF NATIONAL ACCOUNTS STATISTICS

WORLD BANK : WORLD DEVELOPMENT INDICATORS

B) PUBLICATION

ILO : YEARBOOK OF LABOUR STATISTICS

UN : MONTHLY BULLETIN OF STATISTICS

UNCTAD : WORLD DEVELOPMENT AND TRADE REPORT

WHO : THE WORLD HEALTH REPORT

OTHERS : OFFICIAL STATISTICS IN EACH COUNTRY

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VARIABLE LIST

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VARIABLE:	FLAG:	UNIT:	NOTES:
ACCH	VTDR	%	ACCESS TO LOCAL HEALTH CARE (% OF NP)
ACRAIN	VTDF	PH	ACID RAINFALL MEASURED BY ACID ZONE pH.
AETR	VTDR	CE/OE	ALTERNATIVE ENERGY TECHNOLOGY RATE IN TERMS OF CO2 EFFICIENCY
ALTEGY	VTDF	MTOE	ALTERNATIVE ENERGY SUPPLY (METRIC TON)
ALTEGYR	VTDR	NU	ALTERNATIVE ENERGY RATIO TO TOTAL ENERGY
ALTHTEC	VTDF	MTOE	ALTERNATIVE HI-TECHNOLOGY ON ENERGY USE (COSMIC ENERGY USE ON SUPER CONDUCTOR & NUCLEAR FUSION AT NORMAL TEMPERATURE)
AHLCR	VTDF	POINT	ADHERENCE TO HUMAN LIFE & CULTURAL RIGHTS
AIRPOL	VTDS	POINT	AIR POLLUTION (SO2, NOX, ETC.)
APNHI#	VTDF	MD90	ANTIPOLLUTION INVESTMENT
AOROL	VTDF	POINT	ABSENCE OF RULE OF LAW
ARABLE	VTDS	HA	ARABLE LAND
ARABLER	VTDR	%	ARABLE LAND; ANNUAL INCREASE RATE
BATT	VTDF	MTOE	BATTERY
BEDS	VTDF	NO	HOSPITAL BEDS
BBP	VTDF	MDS	BASIC BALANCE OF PAYMENTS

			AT CURRENT US DOLLARS
BHENEED	VTDF	POINT	BASIC HUMAN EXISTENCE NEEDS
BIOMASS	VTVF	MT	BIOMASS UTILIZATION
BIOTEC@	VTXF	MTCE	BIOTECHNOLOGY FOR REDUCING CO2
BIRTHR	VTDR	/TH	BIRTH RATE (PER THOUSAND POPULATION)
BRTC	VTDR	%	BIRTHS ATTENDED BY HEALTH PERSONNEL
BRTW	VTDR	%	BABIES WITH BIRTHWEIGHT BELOW 2500 GRAMS
CAE	VTDF	MD	GOVERNMENT CAPITAL EXPENDITURE
CAE#	VTDF	MD95	GOVERNMENT CAPITAL EXPENDITURE (AT CONST.)
CALTIVA	VTDF	HA	CULTIVATED LAND
CAPM#	VTDF	MD90	CAPACITY TO IMPORT
			AT CONSTANT PRICES
CBP	VTDF	MDS	CURRENT BALANCE OF PAYMENTS
			AT CURRENT US DOLLARS
CBPGDP	VTDR	%	CURRENT BALANCE OF PAYMENTS TO GDP
CBT	VTDF	MDS	CURRENT BALANCE OF TRADE
			AT CURRENT US DOLLARS
CCG	VTDF	MD	CLAIMS ON GOVERNMENT SECTOR, NET
CEMP	VTDS	TP	CIVILIAN EMPLOYMENT
CEMPF	VTDS	TP	CIVILIAN EMPLOYMENT: FEMALE
CEMPM	VTDS	TP	CIVILIAN EMPLOYMENT: MALE
CEMPR	VTDF	%	CIVILIAN EMPLOYMENT RATE
CFC@	VTXF	MT	CFC EMISSION
CG	VTDF	MD	GOVERNMENT FINAL CONSUMPTION
			EXPENDITURE AT CURRENT PRICES
CG#	VTDF	MD95	GOVERNMENT FINAL CONSUMPTION
			EXPENDITURE AT CONSTANT PRICES
CLDP	VTDS	TP	CURRENT LEVEL OF DISPLACED PERSONS
COAL	VTDF	MTOE	COAL REQUIREMENT
COMPE	VTDF	MD	COMPENSATION OF EMPLOYEES
			AT CURRENT PRICES
COMPE#	VTDF	MD95	COMPENSATION OF EMPLOYEES
			AT CONSTANT PRICES
CO2	VTDF	MTCE	CO2 EMISSION IN TERMS OMTCE
CO2EMN	VTDF	MTCE	CO2 EMISSION FROM FOSSIL ENERGY USE
CO2ETF	VTDF	RATIO	CO2 EMISSION TECHNOLOGY FACTOR

CO2ESR	VTDF	%	CO2 EMISSION STABILIZATION RATE
CO2G	STDF	MTCE	GLOBAL CO2 EMISSION IN TERMS OF MTCE
CO2PC	VTDF	TCE	CO2 EMISSION PER CAPITA
CO2PPMG	STDF	PPM	GLOBAL CO2 IN TERMS OF PPM (MAUNA LOA)
CP	VTDF	MD	PRIVATE FINAL CONSUMPTION EXPENDITURE AT CURRENT PRICES
CP#	VTDF	MD95	PRIVATE FINAL CONSUMPTION EXPENDITURE AT CONSTANT PRICES
CP#PC	VTDF	TD95/P	PRIVATE FINAL CONSUMPTION EXPENDITURE AT CONSTANT PRICES (PER CAPITA)
CPI	VTDP	95=1	CONSUMER PRICE INDEX
CPIAME	STDP	95=1	AVERAGE CONSUMER PRICE INDEX OF AMES
CPIEU	STDP	95=1	AVERAGE CONSUMER PRICE INDEX OF EU
CPIDOT	VTDR	%	INCREASING RATE OF DOMESTIC PRICE
CPS	VTDF	MD	CLAIMS ON PRIVATE SECTOR, NET
CQE	VTDF	MD	CORPORATE AND QUASI-CORPORATE ENTERPRISES' OPERATING SURPLUS
CQE#	VTDF	MD95	CORPORATE AND QUASI-CORPORATE ENTERPRISES' OPERATING SURPLUS (AT CONST.)
CUT	VTDF	MD	CURRENT TRANSFERS
CTAXRO@	VTXF	%	CARBON TAX RATE ON OIL
CTAXRC@	VTXF	%	CARBON TAX RATE ON COAL
CTAXRG@	VTXF	%	CARBON TAX RATE ON GAS
CTC	VTDF	MD	CURRENT TRANFERS: CREDIT
CTCGG@	VTXF	MD	CREDIT: GENERAL GOVERNMENT
CTCOS@	VTXF	MD	CREDIT: OTHER SECTORS
CTD	VTXF	MD	CURRENT TRANFERS: DEBIT
CTDGG@	VTXF	MD	DEBIT: GENERAL GOVERNMENT
CTDOS@	VTXF	MD	DEBIT: OTHER SECTORS
CTR@	VTXR	NU	CUSTOMS TARIFF RATE
CTRV@	VTXR	NU	CUSTOMS TARIFF RATE FOR VEHICLE EXPORTING COUNTRIES TO CHINA
CUE	VTDF	MD	GOVERNMENT CURRENT EXPENDITURE
CULTIVAT	VTDS	HA	CULTIVATED LAND
CUR	VTDR	NU	CAPACITY UTILIZATION RATE
DDP	VTDF	TP	NUMBER OF DISGUISED DISPLACED PERSONS

DEATHR	VTDR	/TH	DEATH RATE (PER THOUSAND POPULATION)
DEFORES	VTDF	SM	DEFORESTATION, NET
DEFORTR	VTDR	%	DEFORESTATION RATE, NET
DER	VTDR	NU	PUBLIC EXTERNAL DEBT / EXPORT RATIO
DERT	VTDR	NU	TOTAL EXTERNAL DEBT / EXPORT RATIO
DESERT	VTDR	NU	DESERTIFICATION
DEVDP	VTDS	TP	ECONOMICALLY DISPLACED PERSONS
DEVI	VTDF	POINT	INTEGRATED DEVELOPMENT INDICATORS
DFAWC@	VTXF	NU	DEGREE AND FREQUENCY IN ABNORMAL WEATHER CONDITION
DFC	VTDF	MD	CONSUMPTION OF FIXED CAPITAL AT CURRENT PRICES
DFOODP	VTDF	MT	DOMESTIC FOODS PRODUCTION
DFI	VTDF	MD	DOMESTIC FACTOR INCOMES AT CURRENT PRICES
DFI#	VTDF	MD95	DOMESTIC FACTOR INCOMES AT CONSTANT PRICES
DGR	VTDR	NU	PUBLIC TOTAL DEBT / GDPS RATIO
DGRT	VTDR	NU	TOTAL EXTERNAL DEBT / GDPS RATIO
DIA	VTDF	MDS	PRIVATE DIRECT INVESTMENT ABROAD AT CURRENT US DOLLARS
DIAO	VTDS	MDS	PRIVATE DIRECT INVESTMENT ABROAD: OUTSTANDING
DIB	VTDF	MDS	PRIVATE DIRECT INVESTMENT, BALANCE AT CURRENT US DOLLARS
DIL	VTDF	MDS	PRIVATE DIRECT INVESTMENT IN COUNTRY AT CURRENT DOLLARS
DILGDP	VTDR	%	CAPITA INFLOW TO GDP
DILO	VTDS	MDS	PRIVATE DIRECT INVESTMENT IN COUNTRY: OUTSTANDING
DISB	VTDF	MDS	DISBURSEMENTS (LONG-TERM DEBT) TOTAL ALL CREDITORS
DISBOC	VTDF	MDS	DISBURSEMENTS (LONG-TERM DEBT) TOTAL OFFICIAL CREDITORS
DISBPC	VTDF	MDS	DISBURSEMENTS (LONG-TERM DEBT) TOTAL PRIVATE CREDITORS

DISBPNG	VTDF	MDS	DISBURSEMENTS (LONG-TERM DEBT) TOTAL PRIVATE CREDITORS PRIVATE NONGUARANTEED DEBT
DNHC	VTDF	MD	DEPRECIATION OF NON-HOUSING CAPITAL AT CURRENT PRICES
DNHC#	VTDF	MD95	DEPRECIATION OF NON-HOUSING CAPITAL AT CONSTANT PRICES
DOD	VTDS	MDS	PUBLIC DEBT OUTSTANDING (LONG-TERM) TOTAL ALL CREDITORS
DODOC	VTDS	MDS	PUBLIC DEBT OUTSTANDING (LONG-TERM) OFFICIAL CREDITORS
DODPC	VTDS	MDS	PUBLIC DEBT OUTSTANDING (LONG-TERM) PRIVATE CREDITORS
DODPNG	VTDS	MDS	PRIVATE DEBT OUTSTANDING (LONG-TERM) NON-GURANTEED
DP	VTDS	TP	DISPLACED PERSONS
DPNPR	VTDF	%	RATIO OF DP TO TOTAL POPULATION
DPR	DTDF	TP	DISPLACED PERSONS, RECEIVED
DPRNPR	VTDF	%	RATIO OF DPR TO TOTAL POPULATION
DROUGHT	VTDF	POINT	FREQUENCY OF DROUGHT
DSR	VTDR	NU	PUBLIC TOTAL DEBT SERVICE RATIO
DSRLT	VTDR	NU	EXTERNAL DEBT TOTAL (LONG-TERM) DEBT SERVICE RATIO
E	VTDF	MD	EXPORTS OF GOODS AND SERVICES AT CURRENT PRICES
E#	VTDF	MD95	EXPORTS OF GOODS AND SERVICES AT CONSTANT PRICES
E#AGR	VTDF	MD95	EXPORTS OF AGRICULTURAL COMMODITIES
ECUR	VTDR	NCU/ECU	EXCHANGE RATE OF NATIONAL CURRENCY UNIT PER ECU
ECURI	VTDP	95=1	INDEX OF ECUR
E#MAT	MTDF	MD95	EXPORTS (MERCHANDISE, FOB) FROM REGION (I) TO REGION (J) AT CONSTANT PRICES
ECODP	VTDF	TP	ECOLOGICAL DISPLACED PERSONS
EDED@	VTXF	POINT	ETHNIC DIFFERENTIATION AND EXTERNAL DISMISSION

EDUA#	VTDS	MD95	EDUCATIONAL ASSETS AT CONSTANT PRICES
EDUA#PC	VTDF	TD95/P	EDUCATIONAL ASSETS (PER CAPITA)
EGS	VTDF	MD	GOVERNMENT CURRENT EXPENDITURE ON GOODS AND SERVICES
EMFOB	VTDF	MDS	MERCHANDISE EXPORTS AT CURRENT US DOLLARS (BOP BASE)
EMIGRAN@	VTXF	TP	NUMBER OF EMIGRANTS
EMTFOB#	VTDF	MD95	MERCHANDISE EXPORTS AND IMPORTS TOTAL
ENGYR	VTDF	MTOE	ENERGY REQUIREMENTS (METRIC TON OIL EQUIVALENT)
ENGYRG	VTDF	MTOE	WORLD ENERGY REQUIREMENTS (METRIC TON OIL EQUIVALENT)
ENGYS	VTDF	MTOE	TOTAL ENERGY SUPPLY (METRIC TON OIL EQUIVALENT)
ENVI	VTDF	POINT	INTEGRATED ENVIRONMENT INDICATOR
EPC	VTDF	TOE	ENERGY REQUIREMENTS PER CAPITA
EROSION	VTDF	SM	EROSION
ESMAT	MTDF	MDS	EXPORTS (MERCHANDISE, FOB) FROM REGION (I) TO REGION (J) AT CURRENT US DOLLARS
ESMATAE	VTDR	MDS	EXPORTS FROM USA TO EU
ESMATEA	VTDR	MDS	EXPORTS FROM EU TO USA
ESR	VTDR	%	ENERGY SAVINGS RATE TO GDP# IN TERMS OF ENERGY INTENSITY
ESWARM	VTDF	GEGREE	AVERAGE EARTH SURFACE TEMPERATURE IN EACH REGION
ESWARMG	STDF	DEGREE	AVERAGE EARTH SURFACE TEMPERATURE AT THE GLOBAL LEVEL
ETFOB	VTDF	MDS	MERCHANDISE EXPORTS (FOB) AT CURRENT US DOLLARS
ETFOB#	VTDF	MDS	MERCHANDISE EXPORTS (FOB) AT CONSTANT US DOLLARS
EUROCR@	VCXR	NCU/EURO	EURO CURRENCY COVERSION RATES AMONG EU11 COUNTRIES
EXFOOD#	VTVF	MD95	EXPORTS OF FOODS
EXTIM@	VTXF	MT	EXPORT OF TIMBER
FADEDIA@	VTXF	MDS	FADEOUT OF DIA

FADEDIL@	VTXF	MDS	FADEOUT OF DIL
FADEPIA@	VTXF	MDS	FADEOUT OF PRIVATE FOREIGN DIRECT INVESTMENT
FADEPIL@	VTXF	MT	FADEOUT OF PFDI IN HOST COUNTRIES
FCI	VTDF	MDS	FOREIGN CAPITAL INFLOW TO DGE AT CURRENT US DOLLARS
FERE	VTDR	NCU/EURO	EXCHANGE RATE PER EURO
FEREURO	STDF	ECU/US$	EURO CURRENCY'S EXCHANGE RATE PER US DOLLAR
FEERSI	VTDP	95 =1	EFFECTIVE FOREIGN EXCHANGE RATE INDEX OF US DOLLAR
FERIAME	STDP	95 =1	AME'S WEIGHTED AVERAGE FOREIGN EXCHANGE RATE INDEX PER US DOLLAR
FERISDR	STDP	95 =1	SDR RATE INDEX
FERIEUR	STDP	95 =1	EURO CURRENCY'S EXCHANGE RATE INDEX PER US DOLLAR
FERS	VTDR	NCU / US$	FOREIGN EXCHANGE RATE PER US DOLLAR
FERSI	VTDP	95 =1	FOREIGN EXCHANGE RATE INDEX PER US DOLLAR
FERSIDOT	VTDF	%	PERCENTAGE CHANGES IN US DOLLAR EXCHANGE RATE INDEX
FERSPPP	VTDF	PPP / FERS	FOREIGN EXCHANGE RATE PER US DOLLAR ADJUSTMENT RATE BY PPP
FLOOD	VTXF	NCU	FREQUENCY OF FLOODS
FOODAID	VTXF	MT	FOOD AID (METRIC TONS)
FOODPOP	VTDF	MT/TP	FOOD-POPULATION IMBALANCE
FOODSS	VTDR	%	RATIO OF FOOD SELF-SUPPLY
FOSSIL	VTDF	MTOE	FOSSIL ENERGY IN METRIC TONS (OIL EQUIVALENT)
FOREST	VTDS	SM	FOREST ZONE
FRESTTC	VTDF	MDS	TECHNICAL COOPERATION FOR FORESTATION
FPROPCI	VTDP	95 =1	INDEX OF FOOD PRODUCTION PER CAPITA AT MT
GAS	VTDF	MTOE	NATURAL GAS REQUIREMENT
GBPREP	VTDF	MD	GOVERNMENT BONDS PRINCIPAL REPAYMENT
GBR	VTDF	MD	NEW ISSUES OF GOVERNMENT BONDS
GBRGE	VTDR	%	GBR/GE RATIO

GCE	VTDF	MD	GOVERNMENT CURRENT EXPENDITURE
GCE#	VTDF	MD95	GOVERNMENT CURRENT EXPENDITURE（AT CONST>）
GDF	VTDF	MD	GOVERNMENT DEFENSE EXPENDITURE
GDF#	VTDF	MD95	GOVERNMENT DEFENSE EXPENDITURE（AT CONST>
GDFGDP	VTDR	%	MILITARY EXPENDITURES TO GDP#
GDOS	VTDF	MD	CURRENT GOVERNMENT DEFICIT (-) OR SURPLUS (+)
GDOS#	VTDF	MD95	CURRENT GOVERNMENT DEFICIT (-) OR SURPLUS (+)
GDO	VTDS	MD	CENTRAL GOVERNMENT DEBT OUTSTANDING
GDOGDP	VTDR	%	GDO/GDP RATIO
GDP	VTDF	MD	GROSS DOMESTIC PRODUCT AT CURRENT MARKET PRICES
GDPE	VTDF	ME	GROSS DOMESTIC PRODUCT AT CURRENT MARKET PRICES (EURO CURRENCY UNIT)
GDPN	VTDF	MN	GROSS DOMESTIC PRODUCT AT CURRENT MARKET PRICES (NATIONAL CURRENCY UNIT)
GDPS	VTDF	MDS	GROSS DOMESTIC PRODUCTS AT CURRENT US DOLLARS
GDPSPPP	VTDF	MDS/PPP	GROSS DOMESTIC PRODUCTS AT CURRENT US DOLLARS ADJUSTED BY PPP (PARCHASING PWER PARITY)
GDPSG	VTDF	MDS	GROSS DOMESTIC PRODUCTS OF THE WORLD AT CURRENT US DOLLARS
GDP#	VTDF	MD95	GROSS DOMESTIC PRODUCT AT CONSTANT PRICES
GDP#DOT	VTDF	%	ECONOMIC GROWTH RATE
GDP#AME	STDF	MD95	TOTAL GROSS DOMESTIC PRODUCTS OF AME REGION
GDP#E	VTDF	ME95	GROSS DOMESTIC PRODUCT AT CONSTANT PRICES (EURO CURRENCY UNIT)
GDP#EU	STDF	MD95	TOTAL GROSS DOMESTIC PRODUCTS OF EU
GDP#DGE	STDF	MD95	TOTAL GROSS DOMESTIC PRODUCTS OF DGE REGION
GDP#G	STSF	MD95	TOTAL GROSS DOMESTIC PRODUCTS

			OF THE WORLD
GDP#N	VTDF	MN95	GROSS DOMESTIC PRODUCT AT CONSTANT MARKET PRICES (NATIONAL CURRENCY UNIT)
GDP#PPP	VTDF	MD95/ PPP95	GROSS DOMESTIC PRODUCT AT CONSTANT MARKET PRICES ADJUSTED BY PPP
GDP#PPC	VTDF	TD95/P	GROSS DOMESTIC PRODUCT AT CONSTANT MARKET PRICES ADJUSTED BY PPP (PER CAPITA)
GDPAGR#	VTDF	MD95	GROSS DOMESTIC PRODUCT BY AGRICULTURE
GDPAG#C	SCDF	MD95	RATIO OF AGRICULTURE TO GDP#
GDPIND#	VTDF	MD95	GROSS DOMESTIC PRODUCT BY INDUSTRIAL ACTIVITY
GDPIN#C	SCDF	MD95	RATIO OF INDUSTRY TO GDP#
GDPMF#	VTDF	MD95	GROSS DOMESTIC PRODUCT BY MANUFACTURING INDUSTRIES
GDPMF#C	SCDF	MD95	RATIO OF MANUFACTURING INDUSTRY TO GDP#
GDPSER#	VTDF	MD95	GROSS DOMESTIC PRODUCT BY SERVICE AND OTHERS
GDPP#	VTDF	MD95	PRODUCTION-ORIENTED GROSS DOMESTIC PRODUCT AT CONSTANT PRICES (POTENTIAL GDP#)
GDS	VTDF	MD	DISCOUNT AND INTEREST ON GOVERNMENT BONDS AT CURRENT PRICES
GDS#	VTDF	MD95	DISCOUNT AND INTEREST ON GOVERNMENT BONDS AT CONSTANT PRICES
GE	VTDF	MD	GOVERNMENT EXPENDITURE & LENDING MINUS REPAYMENT AT CURRENT PRICES
GE#	VTDF	MD95	GOVERNMENT EXPENDITURE & LENDING MINUS REPAYMENT AT CONSTANT PRICES
GEDU	VTDF	MD	GOVERNMENT EDUCATION EXPENDITURE AT CURRENT PRICES
GEDU#	VTDF	MD95	GOVERNMENT EDUCATION EXPENDITURE AT CONSTANT PRICES
GEDUGDP	VTDR	%	EDUCATIONAL EXPENDITURES TO GDP#
GEITI@	VTXF	MD	GOVERNMENT EXPENDITURE ON INFORMATION TECHNOLOGY INVESTMENT
GEOP	VTDF	MD	GOVERNMENT EXPENDITURE ON OTHER PURPOSES

GEOP#	VTDF	MD95	GOVERNMENT EXPENDITURE ON OTHER PURPOSES (CONST.)
GES	VTDF	MD	GOVERNMENT EXPENDITURE ON ECONOMIC SERVICES
GES#	VTDF	MD95	GOVERNMENT EXPENDITURE ON ECONOMIC SERVICES (CONST.)
GEST	VTDF	MD	GOVERNMENT EXPENDITURE ON SCIENCE AND TECHNOLOGY
GEVS	VTDF	MD	GOVERNMENT EXPENDITURE ON VETERANS SERVICES
GFCF	VTDF	MD	GROSS FIXED CAPITAL FORMATION AT CURRENT PRICES
GFCF#	VTDF	MD95	GROSS FIXED CAPITAL FORMATION AT CONSTANT PRICES
GFR	VTDF	Per 1000w	GENERAL FERTILITY RATE
GGO	VTDF	MD	GENERAL GOVERNMENT OPERATING SURPLUS AT CURRENT PRICES
GGO#	VTDF	MD95	GENERAL GOVERNMENT OPERATING SURPLUS AT CONSTANT PRICES
GH	VTDF	MD	GOVERNMENT HEALTH EXPENDITURE
GH#	VTDF	MD95	GOVERNMENT HEALTH EXPENDITURE AT CONSTANT PRICES
GH#PC	VTDF	TD /P	GOVERNMENT HEALTH EXPENDITURE AT CONSTANT PRICES (PER CAPITA)
GHC	VTDF	MD	GOVERNMENT EXPENDITURE ON HOUSING AND COMMUNITY
GHC#	VTDF	MD95	GOVERNMENT EXPENDITURE ON HOUSING AND COMMUNITY (CONST.)
GITI	VTDF	MD	GOVERNMENT EXPENDITURE ON INFORMATION TECHNOLOGY INVESTMENT
GITI#	VTDF	MD95	GOVERNMENT EXPENDITURE ON INFORMATION TECHNOLOGY INVESTMENT (COST.)
GIP	VTDF	MD	GOVERNMENT CURRENT EXPENDITURE ON INTEREST PAYMENTS
GIP#	VTDF	MD95	GOVERNMENT CURRENT EXPENDITURE ON INTEREST PAYMENTS (CONST.)

GLMR@	VTXF	MD	GOVERNMENT LENDING MINUS REPAYMENT
GLMR#@	VTXF	MD95	GOVERNMENT LENDING MINUS REPAYMENT (CONST.)
GLPF	VTDF	MD	GOVERNMENT EXPENDITURE ON LOCAL PUBLIC FINANCES
GPS	VTDF	MD	GOVERNMENT EXPENDITURE ON GENERAL PUBLIC SERVICES
GPS#	VTDF	MD95	GOVERNMENT EXPENDITURE ON GENERAL PUBLIC SERVICES (CONST.)
GPW	VTDF	MD	GOVERNMENT EXPENDITURE ON PUBLIC WORKS
GR	VTDF	MD	GOVERNMENT REVENUE AND GRANT AT CURRENT PRICES
GR#	VTDF	MD95	GOVERNMENT REVENUE AND GRANT AT CONSTANT PRICES
GRANT@	VTXF	MD	GRANT REVENUE OF GOVERNMENT
GRANT#@	VTXF	MD95	GRANT REVENUE OF GOVERNMENT (CONST.)
GRR	VTDF	Per woman	GROSS REPRODUCTION RATE
GSS	VTDF	MD	GOVERNMENT EXPENDITURE ON OTHER COMMUNITY SERVICES
GSS#	VTDF	MD95	GOVERNMENT EXPENDITURE ON OTHER COMMUNITY SERVICES (CONST.)
GSW	VTDF	MD	GOVERNMENT EXPENDITURE ON SOCIAL SECURITY & WELFARE
GSW#	VTDF	MD95	GOVERNMENT EXPENDITURE ON SOCIAL SECURITY & WELFARE AT CONSTANT PRICES
GSW#PC	VTDF	TD95/P	GOVERNMENT EXPENDITURE ON SOCIAL SECURITY & WELFARE AT CONSTANT PRICES (PER CAPITA)
GSWGDP	VTDR	%	SOCIAL SECURITY EXPENDITURES TO GDP#
GTE	VTDF	MD	GOVERNMENT TOTAL EXPENDITURE
GTE#	VTDF	MD95	GOVERNMENT TOTAL EXPENDITURE (AT CONST.)
H2OSAFE	VTDR	%	ACCESS TO SAFE WATER, TOTAL, % OF NP
HPI	VTDF	MD	HOUSEHOLD’S PROPERTY INCOME
HI	VTDF	MD	HOUSING INVESTMENT AT CURRENT PRICES
HI#	VTDF	MD95	HOUSING INVESTMENT AT CONSTANT PRICES

HLTH	VTDR	%	HEALTH EXPENDITURES AS % OF GDP#
HOW	VTDR	HOURS	HOURS OF WORK (ANNUAL AVERAGE)
HRDP	VTDS	TP	HUMAN RIGHT DISPLACED PERSONS
HRI	VTDF	POINT	INTEGRATED HUMAN RIGHT INDICATORS
HYDRO	VTDF	MTOE	HYDRO ELECTRIC GENERATION
IB	VTDR	%	GOVERNMENT LONG TERM BOND YIELD
IBEU	STDR	%	WEIGHTED AVERAGE OF EU
			GOVERNMENT LONG- TERM BOND YIELD
IC	VTDR	%	CALL MONEY RATE OR FEDERAL FUND RATE
ICC	VTDR	%	INTEREST RATE OF CONSUMERS CREDIT
ICEU	STDR	%	WEIGHTED AVERAGE OF
			CALL MONEY RATE OF EU
ICII	VTDF	MDS	INVESTMENT INCOME, CREDIT
			AT CURRENT US DOLLARS
ICIIDIA	VTDF	MDS	DIRECT INVESTMENT INCOME: CREDIT:
ICIIPI	VTDF	MDS	PORTFOLIO INCOME: CREDIT
IDII	VTDF	MDS	INVESTMENT INCOME, DEBIT
			AT CURRENT US DOLLARS
IDIIDIA	VTDF	MDS	DIRECT INVESTMENT INCOME: CREDIT:
IDIIPI	VTDF	MDS	PORTFOLIO INCOME: DEBIT
IDEBTOC	VTDR	%	RATE OF INTEREST PAID (LONG-TERM DEBT)
			OFFICIAL CREDITORS
IDEBTPC	VTDR	%	RATE OF INTEREST PAID (LONG-TERM DEBT)
			PRIVATE CREDITORS
IDEBTPN	VTDR	%	AVERAGE RATE OF INTEREST PAID
			(PRIVATE NONGUARANTEED)
IH	VTDR	%	HOUSING LOAN RATE
IIS	VTDF	MD	INCREASE IN STOCKS AT CURRENT PRICES
IIS#	VTDF	MD95	INCREASE IN STOCKS AT CONSTANT PRICES
IMFOOD#	VTDF	MD95	IMPORTS OF FOODS
IMMIDPT	VTDR	%	IMMUNIZED AGAINST DIPHTHERIA (% UNDER 1)
IMMMEAS	VTDR	%	IMMUNIZED AGAINST MEASLES (% UNDER 1)
IMPCERL	VTDF	MT	IMPORTS, CEREALS
IN	VTDR	%	CENTRAL BANK’S OFFICIAL DISCOUNT RATE
INCOMEC	VTDR	MD	INCOME IN CURRENT ACCOUNT: CREDIT
INCOMED	VTDR	MD	INCOME IN CURRENT ACCOUNT: DEBIT

INEU	VTDR	%	EU'S COMMON OFFICIAL DISCOUNT RATE
INCDISTR	VTDR	MD/TP	UNEQUAL INCOME DISTRIBUTION
INFRA#@	VTXS	MD95	INFRASTRUCTURE
INSURGE	VTDF	TP	INSURGENCY
INT	VTDF	MDS	INTEREST PAYMENT
			(LONG-TERM DEBT, PUBLIC) ALL CREDITORS
INTLWAR	VTDF	POINT	INTERNATIONAL WAR
INTWAR	VTDF	POINT	INTERNAL WAR
INTOC	VTDF	MDS	INTEREST PAYMENTS (LONG-TERM DEBT)
			OFFICIAL CREDITORS
INTPC	VTDF	MDS	INTEREST PAYMENTS (LONG-TERM DEBT)
			PRIVATE CREDITORS
INTPNG	VTDF	MDS	INTEREST PAYMENT
			(PRIVATE NONGUARANTEED)
INTSPTP	VTDR	NO/ TP	INTERNET SUBSCRIBERS PER THOUSAND PERSONS
INTHPTP	VTDR	NO/TP	INTERNET HOSTS PER THOUSAND PERSONS
IOED	VTDF	POINT	IDEOLOGY OPPRESSION AND EXTERNAL
			DISMISSION
IP	VTDR	%	PRIME RATE
IPCIDG	VTDR	INDEX.	INTERNATIONAL PER CAPITA INCOME DISPARITIES
			(COMPARED WITH THE GLOBAL AVERAGE)
			IN TERMS OF REAL GDP AT 1995 CONSTANT PRICES
IPCIDA	VTDR	INDEX.	INTERNATIONAL PER CAPITA INCOME DISPARITIES
			(COMPARED WITH THE AME AVERAGE)
			IN TERMS OF REAL GDP AT 1995 CONSTANT PRICES
IPCIDD	VTDR	INDEX.	INTERNATIONAL PER CAPITA INCOME DISPARITIES
			(COMPARED WITH THE DGE AVERAGE)
			IN TERMS OF REAL GDP AT 1995 CONSTANT PRICES
IPCIDP	VTDR	INDEX	INTERNATIONAL PER CAPITA INCOME DISPARITIES
		WORD=	(COMPARED WITH THE GLOBAL AVERAGE)
		100	IN TERMS OF REAL GDP AT 1995 PPP
IPI	VTDP	95=1	INDUSTRIAL PRODUCTION INDEX
IS	VTDS	MD	INVENTORY STOCK AT CURRENT PRICES
IS#	VTDS	MD95	INVENTORY STOCK AT CONSTANT PRICES
ISEURO	STDR	%	EURO-DOLLAR RATE
ITD	VTDR	%	TIME DEPOSIT RATE

ITI#	VTDF	MD95	INFORMATION TECHNOLOGY INVESTMENT AT CONSTANT MARKET PRICES
ITKPROT	VTDF	GRAM	DAILY PROTEIN INTAKE OF FISH PER CAPITA
IV#	VTDR	95=1	MONEY SUPPLY (M2) / REAL INCOME INDEX
LANDMIN	VTDF	HA/TP	AGRICULTURAL LAND MINCING
LANDCON	VTDF	HA/TP	AGRICULTURAL LAND CONCENTRATION
LB	VTDS	MD	CLAIMS ON PRIVATE SECTOR, OUTSTANDING
LCLF	VTDS	TP	CIVILIAN LABOUR FORCE
LCLFF	VTDS	TP	CIVILIAN LABOUR FORCE: FEMALE
LCLFM	VTDS	TP	CIVILIAN LABOUR FORCE: MALE
LCLFMIN@	VTXS	TP	INFLOWED CIVILIAN LABOUR FORCE: MALE (NET)
LIBOR	STDR	%	LONDON INTERBANK OFFERED RATE
LIFEEXP	VTDR	YEAR	LIFE EXPECTANCY AT BIRTH
LIFEXPM	VTDF	YEAR	LIFE EXPECTANCY AT BIRTH (MALE)
LIFEXPF	VTDF	YEAR	LIFE EXPECTANCY AT BIRTH (FEMALE)
LPI	VTDP	95 =1	LABOUR PRODUCTIVITY INDEX
LLPTP	VTDR	NO/TP	LEASED LINES PER THOUSAND PERSONS
LTCB	VTDF	MDS	LONG-TERM CAPITAL BALANCE AT CURRENT US DOLLARS
LW	VTDS	TP	WAGE EARNER AND SALARIED EMPLOYEES IN ALL ACTIVITY
M	VTDF	MD	IMPORTS OF GOODS AND SERVICES AT CURRENT PRICES
M#	VTDF	MD95	IMPORTS OF GOODS AND SERVICES AT CONSTANT PRICES
MALNUT	VTDR	%	CHILD MALNUTRITION (% UNDER 5)
MILIAID	VTXF	MDS	MILITARY AIDS
MMFOB	VTDF	MDS	MERCHANDISE IMPORTS AT CURRENT US DOLLARS (BOP BASE)
MMRT	VTDR	RATE	MATERNA MORTALITY RATE (P/1000,000 LIVE BABIES)
MORTY	VTDF	TP	MORTALITY
MPSED	VTDF	%	MASS POVERTY AND SOCIO-ECONOMIC DISPARITIES (SHARE OF INCOME HELD BY POOREST 40% OF HOUSHOLDS)
M1	VTDS	MD	MONEY SUPPLY (M1), OUTSTANDING

M2	VTDS	MD	MONEY AND QUASI-MONEY (M1+MTD), OUTSTANDING
M2EU	VTDS	MTD	M2 OF EU AS A GROUP
MTD	VTDS	MD	QUASI-MONEY (TIME AND SAVING DEPOSITS), OUTSTANDING
MTELPTP	VTDR	NO / TP	MOBILE TELEPHONE NUMBERS PER THOUSAND PERSONS
MTFOB	VTDF	MDS	MERCHANDISE, IMPORTS (FOB) AT CURRENT US DOLLARS
MTFOB#	VTDF	MD95	MERCHANDISE, IMPORTS (FOB) AT CONSTANT PRICES
NATY	VTDF	TP	NATALITY
NCUCR@	VTXF	Millions=1	NATIONAL CURRENCY UNIT CONVERSION RATE (MILLIONS = 1, BILLIONS =1000)
NDISAST@	VTXF	POINT	NATURAL DISASTERS
NETMGT	VTDF	TP	NUMBER OF NET MIGRANTS
NETMGTR	VTDF	/TP	NET MIGRANTS TO POPULATION (PER1000)
NENGYTB@	VTXF	MTOE	NET ENERGY TRADE IN METRIC TON (COAL EQUIV)
NFCR	VTDF	MDS	NEWLY FOREIGN CAPITAL REQUIREMENTS
NFLOW	VTDF	MDS	NET FLOWS (LONG-TERM DEBT) TOTAL ALL CREDITORS
NFLOWOF	VTDF	MDS	NET FLOWS (LONG-TERM DEBT) TOTAL OFFICIAL CREDITORS
NFLOWP	VTDF	MDS	NET FLOWS (LONG-TERM DEBT) TOTAL PRIVATE CREDITORS
NHFCS#	VTDS	MD95	NON-HOUSING FIXED CAPITAL STOCKS AT CONSTANT PRICES
NHI	VTDF	MD	NON-HOUSING INVESTMENT AT CURRENT PRICES
NHI#	VTDF	MD95	NON-HOUSING INVESTMENT AT CONSTANT PRICES
NHINP	VTDF	MD	NON-HOUSING INVESTMENT (NON GOVERNMENT) AT CURRENT PRICES
NHINP#	VTDF	MD95	NON-HOUSING INVESTMENT (NON GOVERNMENT) AT CONSTANT PRICES

NMFOOD	VTDF	MD	NET FOODS IMPORTS (AT CURRENT US$)
NOX	VTDF	TT	NOX EMISSION
NP	VTDS	TP	NUMBER OF POPULATION
NPG	STDS	TP	NUMBER OF WORLD POPULATION
NPDGE	STDS	TP	NUMBER OF POPULATION OF DGE REGION
NPF	VTDS	TP	NUMBER OF POPULATION: FEMALE
NPFEA	VTDS	TP	NUMBER OF POPULATION
			FROM 15 TO 64 YEARS: FEMALE
NPFO65	VTDS	TP	NUMBER OF POPULATION
			OVER 65 YEARS: FEMALE
NPFU15	VTDS	TP	NUMBER OF POPULATION
			UNDER 15 YEARS: FEMALE
NPM	VTDS	TP	NUMBER OF POPULATION: MALE
NPMEA	VTDS	TP	NUMBER OF POPULATION
			FROM 15 TO 64 YEARS: MALE
NPMO65	VTDS	TP	NUMBER OF POPULATION OVER 65 YEARS: MALE
NPMU15	VTDS	TP	NUMBER OF POPULATION UNDER 15: MALE
NPO65	VTDS	TP	NUMBER OF POPULATION OVER 65 YEARS: TOTAL
NPRURAL	VTDS	TP	NUMBER OF RURAL POPULATION
NPSLUM	VTDF	TP	NUMBER OF URBAN SLUM POPULATION
NPURBAN	VTDS	TP	NUMBER OF URBAN POPULATION
NRR	VTDS	Per woman	NET REPRODUCTON RATE
NTB@	VTXR	NU	NON TARIFF BARRIER
NTR	VTDF	MD	NON-TAX REVENUE OF GOVERNMENT
NTR#	VTDF	MD95	NON-TAX REVENUE OF GOVERNMENT (CONST.)
NUCL	VTDF	MTOE	NUCLEAR ENERGY REQUIREMENT
NUCLPOL	VTDS	POINT	NUCLEAR POLLUTION
NURS	VTDF	P	NUMBER OF NURSES
OBEDU#	VTDF	MD95	OBSOLETE EDUCATIONAL ASSETS
OBTECH#	VTDF	MD95	OBSOLETE TECHNOLOGY ASSETS
ODA	VTDF	MDS	EACH AME'S ODA (NET)
			AT CURRENT US DOLLARS
ODAB	VTDF	MDS	BILATERAL ODA (NET) AT CURRENT US DOLLARS
ODAM	VTDF	MDS	CONTRIBUTIONS TO MULTI. INSTITUTIONS (NET)
			AT CURRENT US DOLLARS
ODAMAT	NTDF	MDS	ODA (NET) FROM AME (I) TO DGE (J)

			AT CURRENT US DOLLARS
ODAR	VTDF	MDS	OFFICIAL DEVELOPMENT ASSISTANCE RECEIVED, TOTAL
ODABR	VTDF	MDS	OFFICIAL DEVELOPMENT ASSISTANCE RECEIVED, BILATERAL
ODAMR	VTDF	MDS	OFFICIAL DEVELOPMENT ASSISTANCE RECEIVED, MULTILATERAL
ODATC	VTDF	MDS	ODA TECHNICAL COOPERATION
ODATCR	VTDF	MDS	ODA TECHNICAL COOPERATION RECEIVED
OIL	VTDF	MT	OIL REQUIREMENT
OILWRD	STDF	MT	WORLD OIL REQUIREMENT
OLCB@	VTXF	MDS	OTHER LONG-TERM CAPITAL, BALANCE AT CURRENT US DOLLARS
OOF	VTDF	MDS	OTHER OFFICIAL FLOWS
OOFR	VTDF	MDS	OTHER OFFICIAL FLOWS RECEIVED
OOFBR	VTDF	MDS	OTHER OFFICIAL FLOWS RECEIVED BILATERAL
OOFMR	VTXF	MDS	OTHER OFFICIAL FLOWS RECEIVED MULTILATERAL
ORTH	VTDR	%	RATE OF ORAL REHYDRATION THERAPY (% UNDER 5)
OS	VTDF	MD	OPERATING SURPLUS AT CURRENT PRICES
OS#	VTDF	MD95	OPERATING SURPLUS AT CONSTANT PRICES
OSAME	STDF	MD	AME TOTAL OF OPERATING SURPLUS AT CURRENT PRICES
O3G@	VTXF	MT	GLOBAL OZONE EMISSION
PAGR	VTDP	95 =1	DOMESTIC PRICES IN AGRICULTURAL RAW MATERIALS AND FOODS
PCOAL	VTDP	95 =1	DOMESTIC PRICE INDEX OF COAL
PCFD	VTDF	MT/NP	PER CAPITA FOODS DEMAND
PCG	VTDP	95 =1	IMPLICIT DEFLATOR OF GOVERNMENT CONSUMPTION EXPENDITURE
PCIDOT	VTDR	%	STAGNANT PER CAPITA INCOME
PCP	VTDP	95 =1	IMPLICIT DEFLATOR OF PRIVATE CONSUMPTION EXPENDITURE
PCPTP	VTDF	NO / TP	PERSONAL COMPUTERS PER THOUSAND PEOPLE
PE	VTDP	95 =1	EXPORT UNIT VALUE INDEX

PEC	STDP	95 =1	WORLD AVERAGE EXPORT PRICE INDEX OF COMMODITIES EXCLUDING OIL
PEGOLD	STDP	95 =1	WORLD AVERAGE EXPORT PRICE INDEX OF GOLD
PENA	VTDP	95 =1	IMPLICIT DEFLATOR OF EXPORTS (GOODS AND SERVICES)
PEO	STDP	95 =1	WORLD AVERAGE CRUDE PETROLEUM EXPORT PRICE INDEX IN US DOLLARS
PEOB	STDR	$/B	AVERAGE CRUDE PETROLEUM EXPORT PRICE IN US DOLLAR PER BARREL
PECOAL	STDP	95 =1	WORLD AVERAGE COAL EXPORT UNIT VALUE INDEX IN US DOLLARS
PEGAS	STDP	95 =1	AVERAGE GAS EXPORT UNIT VALUE INDEX IN US DOLLARS
PELC	VTDP	95 =1	DOMESTIC ELECTRICITY PRICE INDEX
PEOHR	VTDR	%	PUBLIC HEALTH EXPENDITURES AS % OF GDP
PEOH	VTDR	MD	PUBLIC HEALTH EXPENDITURE S
PEOH#	VTDR	MD95	PUBLIC HEALTH EXPENDITURES (CONST.)
PEOHPC	VTDF	MD90/PC	PUBLIC HEALTH EXPENDITURES PER CAPITA
PES	VTDP	95 =1	EXPORT UNIT VALUE INDEX IN TERMS OF US DOLLAR
PESAME	STDP	95 =1	AME EXPORT UNIT VALUE INDEX IN TERMS OF US DOLLAR
PEW	STDP	95 =1	WORLD EXPORT UNIT VALUE INDEX IN TERMS OF US DOLLARS
PFDI	VTDF	MDS	PRIVATE FOREIGN DIRECT INVESTMENT AT CURRENT US DOLLARS
PFDIMAT	NTDF	MDS	PRIVATE FOREIGN DIRECT INVESTMENT FROM AME (I) TO DME (J)
PFDIR	VTDF	MDS	PRIVATE FOREIGN DIRECT INVESTMENT, RECEIVED
PFDIO	VTDF	MDS	OUTSTANDING PFDI FROM COUNTRY<I> TO COUNTRY<J>
PFDIL	VTDF	MDS	LIABILITIES OF PFDI IN HOST COUNTRIES
PGAS	VTDP	95 =1	DOMESTIC GAS PRICE INDEX
PGDP	VTDP	95 =1	IMPLICIT DEFLATOR OF GROSS DOMESTIC PRODUCT

PGDPEU	VTDP	95 =1	EU’ S WEIGHTED AVERAGE IMPLICIT DEFLATOR OF GROSS DOMESTIC PRODUCT
PGFCF	VTDP	95 =1	IMPLICIT DEFLATOR OF GRO’S FIXED CAPITAL FORMATION
PHI	VTDP	95 =1	IMPLICIT DEFLATOR OF HOUSING INVESTMENT
PHYS	VTDF	P	NUMBER OF PHYSICIANS
PLAND	VTDP	95=1	COMMERCIAL LAND PRICE INDEX OF MAJOR CITIES
PM	VTDP	95 =1	IMPORT UNIT VALUE INDEX
PMNA	VTDP	95 =1	IMPLICIT DEFLATOR OF IMPORTS (GOODS AND SERVICES)
PMS	VTDP	95 =1	IMPORT UNIT VALUE INDEX IN TERMS OF US DOLLAR
PMW	STDP	95 =1	WORLD IMPORT UNIT VALUE INDEX
PNHI	VTDP	95 =1	IMPLICIT DEFLATOR OF NON-HOUSING INVESTMENT
PNHING	VTDP	95 =1	IMPLICIT DEFLATOR OF NON-HOUSING INVESTMENT (NON GOVERNMENT)
PNUCL	VTDP	95 =1	ELECTRICITY PRICE DERIVED FROM NUCLEAR
POIL	VTDP	95 =1	DOMESTIC PETROLEUM PRICE INDEX
POINA	VTDF	MDS	PORTFOLIO INVESTMENT, ASSETS AT CURRENT US DOLLARS
POINB	VTDF	MDS	PORTFOLIO INVESTMENT, BALANCE AT CURRENT US DOLLARS
POINL	VTDF	MDS	PORTFOLIO INVESTMENT, LIABILITIES AT CURRENT US DOLLARS
POLCNFL	VTXF	POINT	POLITICAL CONFLICTS
POOR20	VTDF	%	SHARE OF INCOME HELD BY POOREST 20% OF HOUSHOLDS
POPBEDS	VTDF	P	POPULATION PER HOSPITAL BEDS
PPFCF	VTDP	95=1	IMPLICIT DEFLATOR OF PUBLIC FIXED CAPITAL FORMATION
POS#	VTDF	MD95	GOVERNMENT EXPENDITURE ON PUBLIC ORDER AND SAFETY (AT CONSTANT PRICES)
POPPHY	VTDF	P	POPULATION PER PHYSICIAN
POVLHC	VTDF	%	HEADCOUNT INDEX: LOWER POVERTY LINE

			(% OF HOUSHOLDS)
POVUPHC	VTDF	%	HEADCOUNT INDEX: UPPER POVERTY LINE
			(% OF HOUSHOLDS)
PREP	VTDF	MDS	PRINCIPAL REPAYMENTS
			(LONG-TERM PUBLIC DEBT) ALL CREDITORS
PREPOC	VTDF	MDS	PRINCIPAL REPAYMENTS
			(LONG-TERM, PUBLIC DEBT)
			OFFICIAL CREDITORS
PREPPC	VTDF	MDS	PRINCIPAL REPAYMENTS
			(LONG-TERM PUBLIC DEBT)
			PRIVATE CREDITORS
PREPPNG	VTDF	MDS	PRINCIPAL REPAYMENT
			(PRIVATE NON-GURANTEED)
PSES	VTDS	MD	PERSONAL SECURITIES EXCLUDING STOCKS
PSDP	VTDS	TP	DISPLACED PERSONS FROM LACK OF
			PEACE AND SECURITY
PSI	VTDF	POINT	INTEGRATED PEACE AND SECURITY INDICATORS
PUE	VTDF	MD	PRIVATE UNINCORPORATED ENTERPRISES
			OPERATING SURPLUS
RC	VTDF	MD	CAPITAL REVENUE OF GOVERNMENT
RC#	VTDF	MD95	CAPITAL REVENUE OF GOVERNMENT (CONST.)
RD	VTDF	MD	RESEARCH AND DEVELOPMENT EXPENDITURES
			AT CURRENT PRICES
RD#	VTDF	MD95	RESEARCH AND DEVELOPMENT EXPENDITURES
			AT CONSTANT PRICES
RDBE	VTDF	MD	RESEARCH AND DEVELOPMENT EXPENDITURES
			BY BUSINESS ENTERPRISES
RDBE#	VTDF	MD95	RESEARCH AND DEVELOPMENT EXPENDITURES
			BY BUSINESS ENTERPRISES (CONST.)
RDGOV	VTDF	MD	RESEARCH AND DEVELOPMENT EXPENDITURES
			BY GOVERNMENT
RDGOV#	VTDF	MD95	RESEARCH AND DEVELOPMENT EXPENDITURES
			BY GOVERNMENT (CONST)
RDOTH	VTDF	MD	RESEARCH AND DEVELOPMENT EXPENDITURES
			BY OTHERS. (NGO AND NON-BUSINESS)
RDOTH#	VTDF	MD95	RESEARCH AND DEVELOPMENT EXPENDITURES

			BY OTHERS (COST)
RG	VTDF	MD	TOTAL REVENUE INCLUDING CENTRAL GOVERNMENT BOND REVENUE AT CURRENT PRICES
RICH20	VTDF	%	SHARE OF INCOME HELD BY RICHEST 20% OF HOUSHOLDS
ROED@	VTXF	POINT	RELIGIOUS OPPRESSION AND EXTERNAL DISMISSION
SAFERU	VTDR	%	ACCESS TO SAFE WATER (% OF NP)
SC	VTDF	MDS	EXPORTS OF SERVICES AT CURRENT US DOLLARS
SCOTH	VTDF	MDS	OTHER SERVICES: CREDIT AT CURRENT US DOLLARS
SCTPN	VTDF	MDS	TRANSPORTATION, CREDIT AT CURRENT DOLLARS
SCTR	VTDF	MDS	TRAVEL IN SC, CREDIT AT CURRENT US DOLLARS
SD	VTDF	MDS	IMPORTS OF SERVICES AT CURRENT US DOLLARS
SDOTH	VTDF	MDS	OTHER SERVICES: DEBIT AT CURRENT US DOLLARS
SDTPN	VTDF	MDS	TRANSPORTATION, DEBIT AT CURRENT DOLLARS
SDTR	VTDF	MDS	TRAVEL IN SD, DEBIT AT CURRENT US DOLLARS
SMV	VTDS	MD	STOCK MARKET VALUE AT CURRENT PRICES
SOILPOL	VTDS	POINT	SOIL POLLUTION
SOLAR	VTVF	MTOE	SOLAR ENERGY USE
SOLARTE@	VTXF	MTOE	SOLAR ENERGY TECHNOLOGY
SOX	VTDF	TT	SOX EMISSION
SPI	VTDF	95=1	SHARE PRICE INDEX (REPRESENTATIVE INDEX)
SSC	VTDF	MD	SOCIAL SECURITY CONTRIBUTIONS
SSC#	VTDF	MD95	SOCIAL SECURITY CONTRIBUTIONS (CONST.)
SSCEE@	VTXF	MD	SOCIAL SECURITY CONTRIBUTIONS FOR EMPLOYEES
SSCEE#@	VTXF	MD95	SOCIAL SECURITY CONTRIBUTIONS FOR EMPLOYEES
SSCER@	VTXF	MD	SOCIAL SECURITY CONTRIBUTIONS

			FOR EMPLOYERS (CONST.)
SSCER#@	VTXF	MD95	SOCIAL SECURITY CONTRIBUTIONS
			FOR EMPLOYERS (CONST.)
STDC	VTDF	MD	STATISTICAL DISCREPANCY
			IN COST-STRUCTURE OF GDP
STDC#	VTDF	MD95	STATISTICAL DISCREPANCY
			IN COST-STRUCTURE OF GDP#
STDCE@	VTXF	MD	STATISTICAL DISCREPANCY
			IN EXPENDITURES OF GDP
STDCE#@	VTXF	MD95	STATISTICAL DISCREPANCY
			IN EXPENDITURES OF GDP#
SUB	VTDF	MD	GOVERNMENT CURRENT EXPENDITURE
			ON SUBSIDIES (SNA BASE)
SUB#	VTDF	MD95	GOVERNMENT CURRENT EXPENDITURE
			ON SUBSIDIES (SNA BASE) (CONST.)
SUBG	VTDF	MD	GOVERNMENT CURRENT EXPENDITURE
			ON SUBSIDIES (GFS BASE)
SUBG#	VTDF	MD95	GOVERNMENT CURRENT EXPENDITURE
			ON SUBSIDIES (GFS BASE) (CONST.)
TB	VTDF	MDS	MERCHANDISE TRADE BALANCE (DOT)
			AT CURRENT US DOLLARS
TBB	VTDF	MDS	MERCHANDISE TRADE BALANCE (BOP)
			AT CURRENT US DOLLARS
TC	VTDF	MD	CONSUMPTION TAX
TCR@	VTXF	%	CONSUMPTION TAX RATE
TD	VTDF	MD	DIRECT TAXES
TD#	VTDF	MD95	DIRECT TAXES (CONST.)
TDGS	VTDF	MD	DOMESTIC TAXES ON GOODS AND SERVICES
TDGS#	VTDF	MD95	DOMESTIC TAXES ON GOODS AND SERVICES
			(CONST.)
TDOD	VTDS	MDS	DOMESTIC DEBT OUTSTANDING
			(SHORT AND LONG-TERM)
TDS	VTDF	MDS	PUBLIC DEBT SERVICE (LONG-TERM DEBT)
			TOTAL ALL CREDITORS
TDSOC	VTDF	MDS	PUBLIC DEBT SERVICE (LONG-TERM DEBT)
			OFFICIAL CREDITORS

TDSPC	VTDF	MDS	PUBLIC DEBT SERVICE (LONG-TERM DEBT) PRIVATE CREDITORS
TDSPNG	VTDF	MDS	PRIVATE DEBT SERVICE (PRIVATE NON-GUARANTEED)
TECA#PC	VTDR	MD95/TP	TECHNOLOGY ASSETES AT CONSTANT PRICES PER THOUSAND PERSONS
TECHA#	VTDS	MD95	TECHNOLOGY ASSETS AT CONSTANT PRICES
TECHE	VTDF	MD	EXPORT OF TECHNOLOGY AT CURRENT PRICES
TECHE#	VTDF	MD95	EXPORT OF TECHNOLOGY AT CONSTANT PRICES
TECHM	VTDF	MD	IMPORT OF TECHNOLOGY AT CURRENT PRICES
TECHM#	VTDF	MD95	IMPORT OF TECHNOLOGY AT CONSTANT PRICES
TEOH	VTDF	MD	TOTAL HEALTH EXPENDITURES
TEOH#	VTDF	MD95	TOTAL HEALTH EXPENDITURES (CONST.)
TECHPC	VTDF	MD95/PC	TOTAL HEALTH EXPENDITURES PER CAPITA
TECHR	VTDF	%	TOTAL HEALTH EXPENDITURES AS % OF GDP
TELMPTP	VTDR	NO / TP	TELEPHONE MAINLINES PER THOSAND PERSONS
TEPM@	VTXF	MD	EMPLOYERS PAYROLL OR MANPOWER TAXES
TERRA	STDF	Terra	TERRA CURRENCY UNIT
TERRAS	STDF	Terra/$	TERRA EXCHANGE RATE PER DOLLAR
TERRASI	STDF	95=1	TERRA EXCHANGE RATE INDEX PER DOLLAR
TFOODR	VTDF	MT	TOTAL FOODS REQUIREMENT
TFOODS	VTDF	MT	TOTAL FOODS SUPPLY
TFCE	VTDF	MTOE	TOTAL FINAL CONSUMPTION OF ENERGY
TFCALT@	VTXF	MTOE	TFC ON ALTERNATIVE ENERGY
TFCOAL	VTDF	MTOE	TFC ON COAL.
TFCOALI	VTDF	MTOE	TFC ON COAL IN INDUSTRY
TFCOALT	VTDF	MTOE	TFC ON COAL IN TRANSPORT
TFCOALO	VTDF	MTOE	TFC ON COAL IN OTHER SECTORS
TFCELC	VTDF	MTOE	TFC ON ELECTRICITY
TFCELCI	VTDF	MTOE	TFC ON ELECTRICITY IN INDUSTRY
TFCELCT	VTDF	MTOE	TFC ON ELECTRICITY IN TRANSPORT
TFCELCO	VTDF	MTOE	TFC ON ELECTRICITY IN OTHER SECTORS
TFCGAS	VTDF	MTOE	TFC ON GAS
TFCGASI	VTDF	MTOE	TFC ON GAS IN INDUSTRY
TFCGAST	VTDF	MTOE	TFC ON GAS IN TRANSPORT.
TFCGASO	VTDF	MTOE	TFC ON GAS IN OTHER SECTORS.

TFCOIL	VTDF	MTOE	TFC ON OIL
TFCOILI	VTDF	MTOE	TFC ON OIL IN INDUSTRY
TFCOILT	VTDF	MTOE	TFC ON OIL IN TRANSPORT
TI#	VTDF	MD95	INDIRECT TAXES (SNA BASE) (CONST.)
TID	VTDF	MD	INDIRECT TAXES (GFS BASE)
TID#	VTDF	MD95	INDIRECT TAXES (GFS BASE) (CONST.)
TIN	VTDF	MD	INDIRECT TAXES (SNA BASE)
TIPC	VTDF	MD	TAXES ON INCOME AND PROFIT, AND CAPITAL GAIN
TIPC#	VTDF	MD95	TAXES ON INCOME AND PROFIT, AND CAPITAL GAIN (CONST.)
TIR	VTDF	MD	OTHER INDIRECT TAXES
TIR#	VTDF	MD95	OTHER INDIRECT TAXES (CONST.)
TITT	VTDF	MD	TAXES ON INTERNATIONAL TRADE AND TRANSACTIONS
TITT#	VTDF	MD95	TAXES ON INTERNATIONAL TRADE AND TRANSACTIONS (CONST.)
TLAND@	VTXS	HA	TOTAL LAND IN EACH COUNTRY
TOU	VTDF	MD	OTHER UNALLOCABLE TAXES ON INCOME
TOU#	VTDF	MD95	OTHER UNALLOCABLE TAXES ON INCOME (CONST.
TP	VTDF	MD	TAXES ON PROPERTY
TP#	VTDF	MD95	TAXES ON PROPERTY (CONST.)
TPI	VTDF	MD	TAXES ON INCOME OF PROPERTY AND COMPENSATION OF EMPLOYEES
TPI#	VTDF	MD95	TAXES ON INCOME OF PROPERTY AND COMPENSATION OF EMPLOYEES (CONST.)
TR	VTDF	MD	TAX REVENUE (CENTRAL GOVERNMENT) AT CURRENT PRICES
TR#	VTDF	MD95	TAX REVENUE (CENTRAL GOVERNMENT) AT CONSTANT PRICES
TVSPTP	VTDR	NO / PT	TELEVISION SETS PER THOUSAND PERSONS
TYC	VTDF	MD	TAXES ON INCOME OF PRIVATE CORPORATE
TYC#	VTDF	MD95	TAXES ON INCOME OF PRIVATE CORPORATE (CONST.)
UNEMP	VTDS	TP	UNEMPLOYMENT
UNEMPR	VTDR	NU	UNEMPLOYMENT RATE

UNEMPRF	VTDR	NU	UNEMPLOYMENT RATE: FEMALE
UNEMPRM	VTDR	NU	UNEMPLOYMENT RATE: MALE
UTGB@	VTXF	MDS	UNREQUITED TRANSFERS OF GOVERNMENT, BALANCE
UTPB@	VTXF	MDS	UNREQUITED TRANSFERS OF PRIVATE, BALANCE
VHRI@	VTXF	POINT	VIOLATION OF HUMAN RIGHTS INDICATORS
WATPOL	VTDS	POINT	WATER POLLUTION (BOD, ETC.)
WPI	VTDP	95 =1	WHOLESALE PRICE INDEX OR PRODUCERS PRICE INDEX
WSEI	VTDP	95 =1	INDEX OF AVERAGE WAGE AND SALARY PER EMPLOYEE
WSEIAME	STDP	95 =1	AME'S INDEX OF AVERAGE WAGE AND SALARY PER EMPLOYEE
XPDFOOD	VTDR	%	EXPENDITURE AS % OF GDP#, ALL FOODS
XPDSTPL	VTDR	%	EXPENDITURE AS % OF GDP#, STAPLES
XPDPROT	VTDR	%	EXPENDITURE AS % OF GDP#, PROTEINS