REPUBLIC OF TURKEY
PRIME MINISTRY

GAP

SOUTHEASTERN ANATOLIA PROJECT
REGIONAL DEVELOPMENT ADMINISTRATION

AGRICULTURAL COMMODITIES MARKETING SURVEY
PLANNING OF CROP PATTERN
AND
INTEGRATION OF MARKETING AND CROP PATTERN STUDIES

VOLUME VI

Appendix D - E - F

AUGUST • 1992 ANKARA

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COMPUTER PROGRAM FOR TURGAP

$TITLE TURGAP-CALIB
$OFFSYMLIST OFFSYMXREF
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*                *                                                 *
*                *                  T U R G A P                    *
*                *                                                 *
*                *                     MODEL                       *
*                *                                                 *
*                *-------------------------------------------------*
*                *                                                 *
*                *          PERIOD   : 2010                        *
*                *                                                 *
*                *          VERSION  : BASE RUN                    *
*                *-------------------------------------------------*

*-------------------------------------------------------------------*
*              1. SET  SECTION  ( DEFINITIONS )                     *
*-------------------------------------------------------------------*

* LAND, LABOR, AND TRACTOR POWER SET DEFINITIONS
* FOR THE REST OF TURKEY (ROT).

* DRY LAND CLASSIFIED ACCORDING TO RAINFALL
* IRRIGATED LAND CLASSIFIED ACCORDING TO TEMPERATURE

 SETS S  AGREGATED LAND TYPES
      / DRY-EITH,  DRY-GOOD, DRY-VGOOD,
        IRR-EITH, IRR-GOOD, IRR-POOR, TREE, PASTURE /

      L  LABOR DIVIDED INTO 4 QUARTERS PER YEAR
      / LABOR-1Q, LABOR-2Q, LABOR-3Q, LABOR-4Q /
      M  TRACTOR POWER DIVIDED INTO 4 QUARTERS PER YEAR
      / TRACTOR-1Q, TRACTOR-2Q, TRACTOR-3Q, TRACTOR-4Q /
* FERTILIZER TYPES FOR ROT AND GAP

      F  FERTILIZER
      / NITROGEN, PHOSPHATE /

* SEED INPUT FOR ROT AND GAP

      D  SEEDS
      / S-COMWHEAT, S-DURWHEAT, S-CORN, S-RYE, S-BARLEY, S-RICE,
        S-CHICKPEA ,S-DRYBEAN, S-LENTIL, S-DRYPEA,
        S-POTATO, S-EARLYPOT, S-ONION,
        S-FRETOMAT, S-CONTOMAT, S-AUBERGIN ,S-MELON, S-CAULIFLW,
        S-WATMELON, S-CARROT, S-CABBAGE, S-CUCUMBER, S-OKRA,
        S-PEPPER, S-LETTUCE, S-SPINACH, S-SQUASH, S-LEEK,
        S-GRUNDNUT, S-SESAME, S-SUNFLWER, S-SOYABEAN,
        S-LINSEED, S-COLZA, S-COTTON, S-TOBACCO, S-SUGRBEET,
        S-ALFALFA, S-VETCH, S-SORGHUM /

* CROP PRODUCTS

      OCR  OUTPUT  ALL CROPS
      / COMWHEAT, DURWHEAT, CORN, RYE, BARLEY, RICE,
        CHICK-PEA, DRY-BEAN, LENTIL, DRY-PEA,
        POTATO, EARLY-POT, ONION,
        FRE-TOMATO, CON-TOMATO, AUBERGINE, MELON, CAULIFLOWR,
        WAT-MELON, CARROT, CABBAGE, CUCUMBER, OKRA, PEPPER,
        LETTUCE, SPINACH, SQUASH, LEEK,
        GROUNDNUT, SESAME, SUNFLOWER, SOYABEAN,
        LINSEED, COLZA, COTTON, TOBACCO, SUGARBEET,
        PISTACHIO, HAZELNUT, TAB-OLIVE, OIL-OLIVE, TEA,
        TAB-GRAPE, WINE-GRAPE, SULTANA, FRE-FIGS, DRY-FIGS,
        ORANGE, LEMON,
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        APPLE, PEARS, FRE-PEACH, PRO-PEACH, APRICOT, CHERRY,
        WILDCHERRY, POMEGRAN,
        ALFALFA, VETCH-FOD, VETCH-GRA, CORN-SIL, SORGHUM, SORGH-SIL /

* CROP PRODUCTS EXCLUDING FEED CROPS

      O1(OCR)  OUTPUT  CROPS
      / COMWHEAT, DURWHEAT, CORN, RYE, BARLEY, RICE,
        CHICK-PEA, DRY-BEAN, LENTIL, DRY-PEA,
        POTATO, EARLY-POT, ONION,
        FRE-TOMATO, CON-TOMATO, AUBERGINE, MELON, CAULIFLOWR,
        WAT-MELON, CARROT, CABBAGE, CUCUMBER, OKRA, PEPPER,
        LETTUCE, SPINACH, SQUASH, LEEK,
        GROUNDNUT, SESAME, SUNFLOWER, SOYABEAN,
        LINSEED, COLZA, COTTON, TOBACCO, SUGARBEET,
        PISTACHIO, HAZELNUT, TAB-OLIVE, OIL-OLIVE, TEA,
        TAB-GRAPE, WINE-GRAPE, SULTANA, FRE-FIGS, DRY-FIGS,
        ORANGE, LEMON,
        APPLE, PEARS, FRE-PEACH, PRO-PEACH, APRICOT, CHERRY,
        WILDCHERRY, POMEGRAN/

      OFRX(OCR) ALL FRUIT OUTS
      / HAZELNUT, TAB-OLIVE, OIL-OLIVE, TEA,
      TAB-GRAPE, WINE-GRAPE, SULTANA, FRE-FIGS, DRY-FIGS,
      ORANGE, LEMON, APPLE, PEARS, FRE-PEACH, PRO-PEACH, APRICOT,
      CHERRY, WILDCHERRY/

* LIVESTOCK PRODUCTS

      O2  OUTPUT  ANIMALS
      / SHEEP-MEAT, SHEEP-MILK, SHEEP-WOOL, SHEEP-HIDE,
        GOAT-MEAT,  GOAT-MILK,  GOAT-WOOL,  GOAT-HIDE,
        ANGOR-MEAT, ANGOR-MILK, ANGOR-WOOL, ANGOR-HIDE,
        COW-MEAT,   COW-MILK,   COW-HIDE,
        BUFAL-MEAT, BUFAL-MILK, BUFAL-HIDE,
        POLTR-MEAT, EGGS /

* THE FOLLOWING SET DEFINITIONS (FROM G1 TO TE) ARE ALL FOR THE
* LIVESTOCK PRODUCTION. G'S DENOTE THE INPUTS IN RAW FORM.
* T'S DENOTE THE INPUTS IN DIGESTABLE ENERGY.

      G1  FEED -- STRAW AND HAY
      / F-COMWHEAT, F-DURWHEAT, F-CORN, F-RYE, F-BARLEY,
        F-PULSES, F-VETCHG /

      G2(OCR) FEED -- CONCENTRATES
      / COMWHEAT, DURWHEAT, RYE, BARLEY, SUGARBEET/

      G3(OCR) FEED -- GRAINS
      / COMWHEAT,DURWHEAT,CORN, RYE, BARLEY,
        VETCH-GRA, SORGHUM /

      G4(OCR)  FEED  OILCAKE
      / SUNFLOWER, COTTON, SOYABEAN, LINSEED, COLZA/

      G5(OCR)  FEED --  HIGH QUALITY HAY AND SILAGE
      / VETCH-FOD, ALFALFA, CORN-SIL, SORGH-SIL/

      TF  TOTAL FEED SUPPLY IN ENERGY VALUES
      / TSTRAW, TCONCEN, TGRAIN, TFODD, TOIL, TPAST/

      TS SUBGROUPS OF ENERGY REQUIREMENTS FROM LIVESTOCK SECTOR
      / TGRCONOIL, TGROIL, PASTFEED /

      TE  TOTAL ENERGY
      / TENE/

* CROP PRODUCTION ACTIVITIES FOR ROT.
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* 1ST. LETTER: S=SINGLE, F=FALLOW, T=TREE,
* 2-6ST LETTER: CROP NAME
* 7TH. LETTER: D=DRY, I=IRRIGATED
* 8TH. LETTER: P=POOR, G=GOOD, V=VERY GOOD, L=LOW, H=HIGH
*              WITHOUT ANY OONE OF THE ABOVE=EITHER.

      I  SINGLE CROP ACTIVITIES
      / SCOMWHDG, FCOMWHDP, SCOMWHDV, SCOMWHIL, SDURWHDG, FDURWHDP,
        SDURWHIL, SDURWHDV, SCORN-DV, FCORN-DG, SCORN-IL, SRYE--DG,
        FRYE--D, SRICE-IL, SRICE-IH, SBARLYDG, FBARLYDP,
        SCKPEADP, SCKPEAIL, SDBEANIL, SLENTLDP, SLENTLDG, SDPEASDP,
        SDPEASIL, SLINSEDG,  SEPOTAIL, SEPOTAIH,
                  SPOTATIL, SPOTATIH, SONIONDV, SONIONIL, SMELONIH,
        STOMATIL, STOMATIH, SAUBERIH, SMELONDP, SMELONIL, SMELONDV,
        SWMELOIL, SWMELOIH, SWMELODV, SWMELODP,
        SCARROIL, SCABBAIL, SLEEKIL, SOKRAIL, SSQUASIL,
        SLETTUIL, SSPINAIL, SCUCUMIL, SPEPPEIL, SCAUFLIP,
        SSUNFLDP, SSUNFLIL, SSUNFLDG, SSUNFLDV,  SSBEANI,
        SGRUDNIH, SSESAMDG, SCOLZAIP,
        SCOTTNIH, STOBACDG, STOBACDV, SSBEETIL,
        SALFALI, SVETFODP, SVETGRDP, PASTUSE, SCRSILI, SSORGHI, SSOSILI,
        PISTA-D,  HAZEL-D,  TOLIV-D, OOLIV-D, TEA---D,
        TGRAPDV,  TGRAPIH,  TGRAPIL, WGRAPDG, SULTA-I,
        FFIGS-I,  DFIGS-I,  ORANG-I, LEMON-I,
        SAPPLEIL, PEARS-I,  FPEAC-I, PPEAC-I, SAPRICIL, SAPRICIH,
        SCHERRIL, SWCHERIL, SCHERRIH, POMEGR-I /

* CROP ACTIVITIES CLASSIFIED ACCORDING TO CROP GROUPS
* FOR WATER CHARGE AND REPORTS.

      ALCER(I) ALL CEREALS
      / SCOMWHDG, FCOMWHDP, SCOMWHDV, SCOMWHIL, SDURWHDG, FDURWHDP,
        SDURWHIL, SDURWHDV, SCORN-DV, FCORN-DG, SCORN-IL, SRYE--DG,
        FRYE--D, SRICE-IL, SRICE-IH, SBARLYDG, FBARLYDP /

      IRCERX(I) IRRIGATED CER EXCEPT RICE
      / SCOMWHIL, SDURWHIL, SCORN-IL, SRICE-IL, SRICE-IH /

        IRRIC(I) IRRIGATED RICE
        / SRICE-IL, SRICE-IH /
      ALPUL(I) ALL PULSES
      / SCKPEADP, SCKPEAIL, SDBEANIL, SLENTLDP, SLENTLDG, SDPEASDP,
        SDPEASIL /

      IRPUL(I) IRRIGATED PULSES
      / SCKPEAIL, SDBEANIL, SDPEASIL /

      ALTUB(I) ALL TUBERS
      / SEPOTAIL, SEPOTAIH, SPOTATIL, SPOTATIH, SONIONDV, SONIONIL /
      IRTUB(I) IRRIGATED TUBERS
      / SEPOTAIL, SEPOTAIH, SPOTATIL, SPOTATIH, SONIONIL /

      ALVEG(I) ALL VEGETABLES
            / SMELONIH,  STOMATIL,  STOMATIH,  SAUBERIH,  SMELONDP,  SMELONIL,
SMELONDV,
        SWMELOIL, SWMELOIH, SWMELODV, SWMELODP,
        SCARROIL, SCABBAIL, SLEEKIL, SOKRAIL, SSQUASIL,
        SLETTUIL, SSPINAIL, SCUCUMIL, SPEPPEIL, SCAUFLIP /

      IRVEGX(I) IRRIGATED VEG EXCEPT MELONS
      / STOMATIL, STOMATIH, SAUBERIH,
        SCARROIL, SCABBAIL, SLEEKIL, SOKRAIL, SSQUASIL,
        SLETTUIL, SSPINAIL, SCUCUMIL, SPEPPEIL, SCAUFLIP /

        IRMEL(I) IRRIGATED MELONS
        / SMELONIH, SMELONIL, SWMELOIL, SWMELOIH /

      ALOIL(I) ALL OIL CROPS
      / SSUNFLDP, SSUNFLIL, SSUNFLDG, SSUNFLDV,  SSBEANI,
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        SGRUDNIH, SSESAMDG, SCOLZAIP, SLINSEDG /

      IROIL(I) IRRIGATED OIL CROPS
      / SSUNFLIL, SSBEANI, SGRUDNIH, SCOLZAIP /

      ALIND(I) ALL INDUSTRIAL CROPS
      / SCOTTNIH, STOBACDG, STOBACDV, SSBEETIL /

      IRIND(I) IRRIGATED INDUSTRIAL CROPS
      / SCOTTNIH, SSBEETIL /
      ALFED ALL FEED CROPS
      / SALFALI, SVETFODP, SVETGRDP, SCRSILI, SSORGHI, SSOSILI /

      IRFED(I) IRRIGATED FEEDS
      / SALFALI, SCRSILI, SSORGHI, SSOSILI /

      ALFRN(I) ALL FRUITS AND NUTS
      / PISTA-D,  HAZEL-D,  TOLIV-D, OOLIV-D, TEA---D,
        TGRAPDV,  TGRAPIH,  TGRAPIL, WGRAPDG, SULTA-I,
        FFIGS-I,  DFIGS-I,  ORANG-I, LEMON-I,
        SAPPLEIL, PEARS-I,  FPEAC-I, PPEAC-I, SAPRICIL, SAPRICIH,
        SCHERRIL, SWCHERIL, SCHERRIH, POMEGR-I /

      IRFRNX(I) IRRIGATED FRUITS AND NUTS
       / SAPPLEIL, PEARS-I,  FPEAC-I, PPEAC-I, SAPRICIL,
        SAPRICIH, SCHERRIL, SWCHERIL, SCHERRIH, POMEGR-I /
      IRFIG(I) IRRIGATED FIGS
      / FFIGS-I,  DFIGS-I /

     IRCIT(I) IRRIGATED CITRUS
      / ORANG-I, LEMON-I /

      IRGRA(I) IRRIGATED GRAPES
      / TGRAPIH, TGRAPIL, SULTA-I /

* LIVESTOCK PRODUCTION ACTIVITES
      J  LIVESTOCK PRODUCTION ACTIVITIES
      / SHEEP, GOAT, ANGORA, CATTLE, BUFFALO, POULTRY /

     JC  LIVESTOCK ACIVITY AND COMMODITY CORRESPONDENCE
     / SHEEP-MEAT, GOAT-MEAT, ANGOR-MEAT, COW-MEAT, BUFAL-MEAT,
       POLTR-MEAT/

* AREA FOR ROT

     B  AREA
     / A-COMWHE, A-DURWHE, A-CORN--, A-RYE---, A-BARLEY,
       A-RICE--, A-CHKPEA, A-DRBEAN, A-LENTIL, A-DRYPEA,
       A-POTATO, A-EARPOT, A-ONION-, A-FTOMAT, A-CTOMAT,
       A-CARROT, A-CABBAG, A-LEEK  , A-OKRA  , A-SQUASH,
       A-LETTUC, A-SPINAC, A-PEPPER, A-CUCUMB, A-WMELON,
       A-AUBERG, A-MELON-, A-CAULIF, A-SUNFLR, A-SBEAN-,
       A-GRUNDN, A-SESAME, A-LINSEE, A-COLZA-, A-COTTON,
       A-TOBACO, A-SRBEET, A-PISTAC, A-HAZELN, A-TOLIVE,
       A-OOLIVE, A-TEA---, A-TGRAPE, A-WGRAPE, A-SULTAN,
       A-FFIGS-, A-DFIGS-, A-ORANGE, A-LEMON-, A-APPLE-,
       A-PEARS-, A-FPEACH, A-PPEACH, A-APRICO, A-CHERRY,
       A-WDCHER, A-POMEGR, A-ALFALF, A-VETCHF, A-VETCHG,
       A-CORSIL, A-SORGHU, A-SORSIL /
     BC  CEREAL AREA
     / A-COMWHE, A-DURWHE, A-CORN--, A-RYE---, A-RICE--, A-BARLEY/

     BF  FALLOW AREA
     / FALLOW /
     B1  FODDER
     / ALFALFA,VETCH-FOD, CORN-SIL, SORGH-SIL /

     B2  FODDER AREA
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     / A-ALFALF,A-VETCHF /
* EXOGENOUSLY PRICED COST ITEMS

     E  PRODUCTION COST STRUCTURE
     / SEED, FERTILIZER, CAPITAL,
       CWCCERX, CWCRIC, CWCPUL, CWCTUB, CWCVEGX, CWCMEL, CWCOIL,
       CWCIND, CWCFED, CWCFRNX, CWCFIG, CWCCIT, CWCGRA, CWCOLI /

* SET DEFINITIONS FOR FURTHER OPERATIONS

 SET O    ALL OUTPUTS       ;
          O(O1) = YES; O(O2) = YES;

 SET LM   LABOR AND TRACTOR;
          LM(L) = YES; LM(M) = YES;

 SET TC   FEED REQUIREMENT COEFFIENTS;
          TC(TF) = YES;   TC(TS) = YES;
 SET G    ALL FEED COMPONENTS(INC. TOTAL ENERGY AND SUBGROUPS);
          G(G1) = YES;      G(G2) = YES;
          G(G3) = YES;      G(G4) = YES;
          G(G5) = YES;      G(TC) = YES;
          G(TE) = YES;

 SET IR   SINGLE AND ROTATION CROPS;
          IR(I) = YES;

 SET OAL  ALL OUTPUTS (MARKET AND INTERNAL PRODUCTION);
          OAL(OCR) = YES;  OAL(O2) = YES;
*  GAP SPECIFIC SET DEFINITIONS
SETS
* ALL RAINFALL AND PROJECT REGIONS FOR GAP

     ALR  ALL RAIN AND PROJ REGS GAP
     / NHR, NMR, SMR, SLR, N01, N2A, N2B, N03, N4A, N4B, N4C,
       S05, S06, S07, S08, S09, S10, S11, NOP /

     RF(ALR)  RAINFALL REGIONS
     / NHR, NMR, SMR, SLR /

     PJ(ALR)  IRRIGATION PROJECT REGIONS
     / N01, N2A, N2B, N03, N4A, N4B, N4C,
       S05, S06, S07, S08, S09, S10, S11, NOP /

* REGION DEFINITIONS FOR GAP

*      NRF(ALR) RAINFALL REGS NORTH
*      /NHR, NMR /
*      SRF(ALR) RAINFALL REGS SOUTH
*      /SMR, SLR /
     NPJ(ALR) PROJECTS REGIONS NORTH
     / N01, N2A, N2B, N03, N4A, N4B, N4C /
     SPJ(ALR) PROJECT REGIONS SOUTH
     / S05, S06, S07, S08, S09, S10, S11, NOP /
     RFX(RF) RAINFALL REGS XC SLR
     / NHR, NMR, SMR /
     RFSL(RF) RAINFALL REG SOUTH
     / SLR /

* LAND CLASSES: 3 FOR IRRIGATED, 4 FOR DRY CULTIVATION

     LC  LAND CLASSES
     / LC1 * LC4 /
     LCI(LC)
     / LC1, LC2, LC3 /
     LCT1(LC)
     / LC1 /
     LC23(LC)
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      / LC2, LC3 /
      LCT4(LC)
      / LC4 /
      LC24(LC)
      / LC2, LC3, LC4 /

* VARIOUS SOURCES OF PRODUCTION COEFFICIENTS

      T  TECHNOLOGIES
      / C11 /

* MONTHLY LAND, LABOR, AND TRACTOR POWER INPUTS FOR GAP

      YTG ALL MONTHS AND YEARLY LAND
      /TG01*TG12, TYR /

      TG(YTG)  LAND DIVIDED INTO MONTHS
      / TG01*TG12 /

      LG  LABOR DIVIDED INTO MONTHS
      / LG01*LG12 /

      MG  MACHINE DIVIDED INTO MONTHS
      /MG01*MG12 /

* WATER INPUT FOR GAP: MONTHLY FOR FEB, MAR, APR, MAY, SEPT, OCT, NOV;
*                      IN 10-DAY PER. FOR JUNE, JULY, AUGUST.

      W  WATER DIVIDED INTO MONTHS FOR JUNE JULY AUGUST 10 DAY PR
      / WG02, WG03, WG04, WG05, WG6A, WG6B, WG6C, WG7A, WG7B,
        WG7C, WG8A, WG8B, WG8C, WG09, WG10, WG11 /
      WPK(W) WATER PEAK MONTHS
      / WG6A, WG6B, WG6C, WG7A, WG7B, WG7C, WG8A, WG8B, WG8C /
      WNPK(W) WATER NON PEAK MONTHS
      / WG02, WG03, WG04, WG05, WG09, WG10, WG11 /
* IDENTIFIERS USED IN THE CALCULATION OF NET WATER AVAILIBILITY

      WAID  WATER AVAILABILITY IDENTIFIERS
     / WAP, WANP, WAT, EP, ALEP /

      IG  CROP ACTIVITIES FOR THE GAP REGION

      / CW1I, CW2I, CW3I, CWHD, DW1I, DW2I, DW3I, DWHD,
        BR1I, BR2I, BRLD, CG1I, CG2I, CG3I, RYED, RICI,
        CH1I, CH2I, CH3I, CHCD, LNTI, LNTD, DBNI,
        SN1I, SN2I, SN3I, SNFD, SB1I, SB2I, SB3I
        GN1I, GN2I, SESD,
        CT1I, CT2I, CT3I, SBTI, TOBD,
        PTEI, PTLI, ON1I, ON2I, ON3I, ONSI,
        CTOI, FTOI, MELI, MELD, WMLI, WMLD, CASI, CAWI,
        CB1I, CB2I, CB3I, EG1I, EG2I, CLFI, CC1I, CC2I,
        OKRI, PP1I, PP2I, LT1I, LT2I, LT3I, SPSI, SP1I,
        SP2I, SP3I, SQAI, LEKI,
        ALFI, VCGD, VCFD, CS1I, CS2I, CS3I, SG1I, SG2I,
        SG3I, SS1I, SS2I, SS3I,
        APPI, APRI, CRRI, FGDI, FGFI, GRSI, GRTD, GRTI,
        GRWD, OLOD, OLTD, PARI, PCFI, PCPI, PISD,
        POMI, WCRI /

      IGI(IG) IRRIGATED ACTIVITIES GAP
      / CW1I, CW2I, CW3I, DW1I, DW2I, DW3I,
        BR1I, BR2I, CG1I, CG2I, CG3I, RICI,
        CH1I, CH2I, CH3I, LNTI, DBNI,
        SN1I, SN2I, SN3I, SB1I, SB2I, SB3I, GN1I, GN2I,
        CT1I, CT2I, CT3I, SBTI,
        PTEI, PTLI, ON1I, ON2I, ON3I, ONSI,
        CTOI, FTOI, MELI, WMLI, CASI, CAWI, CB1I, CB2I, CB3I,
        EG1I, EG2I, CLFI, CC1I, CC2I, OKRI, PP1I, PP2I,
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    LT1I, LT2I, LT3I, SPSI, SP1I, SP2I, SP3I, SQAI, LEKI,
    ALFI, CS1I, CS2I, CS3I, SG1I, SG2I, SG3I, SS1I, SS2I, SS3I,
    APPI, APRI, CRRI, FGDI, FGFI, GRSI, GRTI, PARI,
    PCFI, PCPI, POMI, WCRI /

  IGD(IG) ALL DRY ACTIVITIES GAP
  / CWHD, DWHD, BRLD, RYED, CHCD, LNTD, SNFD, SESD, TOBD,
    MELD, WMLD, VCGD, VCFD, GRTD, GRWD, OLOD, OLTD, PISD /
  IGDX(IG) DRY ACTIVITIES EXCEPT PULSES GAP
  / CWHD, DWHD, BRLD, RYED, SNFD, SESD, TOBD,
    MELD, WMLD, VCGD, VCFD, GRTD, GRWD, OLOD, OLTD, PISD /

  IGDP(IG) DRY ACTIVITIES FOR PULSES GAP
  / CHCD, LNTD /

  AGCER(IG) ALL CEREALS GAP
  / CW1I, CW2I, CW3I, CWHD, DW1I, DW2I, DW3I, DWHD,
    BR1I, BR2I, BRLD, CG1I, CG2I, CG3I, RYED, RICI /

  IGCERX(IG) IRRIGATED CEREALS GAP
  / CW1I, CW2I, CW3I, DW1I, DW2I, DW3I,
    BR1I, BR2I, CG1I, CG2I, CG3I  /

  IGWB(IG) IRRIGATED WHEAT AND BARLEY
  / CW1I, CW2I, CW3I, DW1I, DW2I, DW3I,
    BR1I, BR2I /

  DGCER(IG) DRY CEREALS
  / CWHD, DWHD, BRLD, RYED /
  DGVAR(IG) DRY VARIOUS CROPS
  / CHCD, LNTD, SNFD, SESD, MELD, WMLD, VCGD, VCFD /

  IGRIC(IG) IRRIGATED RICE GAP
  / RICI /

  AGPUL(IG) ALL PULSES GAP
  / CH1I, CH2I, CH3I, CHCD, LNTI, LNTD, DBNI /

 IGPUL(IG) IRRIGATED PULSES GAP
 / CH1I, CH2I, CH3I, LNTI, DBNI /

 DGPUL(IG) DRY PULSES
 / CHCD, LNTD /

 AGTUB(IG) ALL TUBERS GAP
 / PTEI, PTLI, ON1I, ON2I, ON3I, ONSI /

IGTUB(IG) IRRI TUBERS GAP
/ PTEI, PTLI, ON1I, ON2I, ON3I, ONSI /
IGPOT(IG) IRRIG POTATO
/ PTEI, PTLI /
IGONI(IG) IRRIG ONION
/ ON1I, ON2I, ON3I, ONSI /

AGVEG(IG) ALL VEGETABLES GAP
/ CTOI, FTOI, MELI, MELD, WMLI, WMLD, CASI, CAWI,
  CB1I, CB2I, CB3I, EG1I, EG2I, CLFI, CC1I, CC2I,
  OKRI, PP1I, PP2I, LT1I, LT2I, LT3I, SPSI, SP1I,
  SP2I, SP3I, SQAI, LEKI /

IGVEGX(IG) IRRIG VEGS EXCEPT MELONS GAP
/ CTOI, FTOI, CASI, CAWI, CB1I, CB2I, CB3I, EG1I, EG2I,
  CLFI, CC1I, CC2I, OKRI, PP1I, PP2I, LT1I, LT2I,
  LT3I, SPSI, SP1I, SP2I, SP3I, SQAI, LEKI /

IGVT(IG) IRRI VEGS AND TUBERS
/ PTEI, PTLI, ON1I, ON2I, ON3I, ONSI,
  CTOI, FTOI, CASI, CAWI, CB1I, CB2I, CB3I, EG1I, EG2I,
```

```
    CLFI, CC1I, CC2I, OKRI, PP1I, PP2I, LT1I, LT2I,
    LT3I, SPSI, SP1I, SP2I, SP3I, SQAI, LEKI /

  IGMEL(IG) IRRIG MELONS GAP
  / MELI, WMLI /

  AGOIL(IG) ALL OIL CROPS GAP
  / SN1I, SN2I, SN3I, SNFD, SB1I, SB2I, SB3I, GN1I, GN2I, SESD /

  IGOIL(IG) IRRIG OIL CROPS GAP
  / SN1I, SN2I, SN3I, SB1I, SB2I, SB3I, GN1I, GN2I /

  IGSUN(IG) IRRI SUNFLOWER
  / SN1I, SN2I, SN3I/

  IGSOY(IG) IRRIG SOYBEAN
  / SB1I, SB2I, SB3I /
  IGGRO(IG) IRRIG GROUNDNUT
  / GN1I, GN2I /
  AGIND(IG) ALL INDUSTRIAL CROPS GAP
  / CT1I, CT2I, CT3I, SBTI, TOBD /
  IGIND(IG) IRRIG INDUSTRIAL CROPS GAP
  / CT1I, CT2I, CT3I, SBTI /
  IGCOT(IG) IRRIG COTTON
  / CT1I, CT2I, CT3I /
  IGSUG(IG) IRRIG SUGARBEET
  / SBTI /

  AGFED(IG) ALL FEED CROPS GAP
  / ALFI, VCGD, VCFD, CS1I, CS2I, CS3I, SG1I, SG2I,
    SG3I, SS1I, SS2I, SS3I /
  IGFED(IG) IRRIG FEED CROPS GAP
  / ALFI, CS1I, CS2I, CS3I, SG1I, SG2I, SG3I, SS1I, SS2I, SS3I /

  AGFRN(IG) ALL FRUITS AND NUTS GAP
  / APPI, APRI, CRRI, FGDI, FGFI, GRSI, GRTD, GRTI, GRWD, OLOD,
    OLTD, PARI, PCFI, PCPI, PISD, POMI, WCRI /
  IGFRN(IG) IRRIGATED FRUITS ALL
  / APPI, APRI, CRRI, PARI, PCFI, PCPI, POMI, WCRI
    FGDI, FGFI, GRSI, GRTI /

 IGFRNX(IG) IRRI FRUTS EXC FIG AND GRP GAP
  / APPI, APRI, CRRI, PARI, PCFI, PCPI, POMI, WCRI /

  IGFIG(IG) IRRIGATED FIG GAP
  / FGDI, FGFI /

  IGGRA(IG) IRRIGATED GRAPES GAP
  / GRSI, GRTI /

  DGFRN(IG) DRY FRUITS AND NUTS GAP
  / GRTD, GRWD, OLOD, OLTD, PISD /


SET LMG LABOR AND TRACTOR; LMG(LG)=YES; LMG(MG)=YES;

****

 TABLE   PAR  CONSUMPTION PARAM PQP TERMS AND TRANS COSTS

                 ELAST-P  ELAST-I        PQP1   CTRAN
    COMWHEAT       -0.3        0     0.00098      43
    DURWHEAT       -0.4        0     0.00640      43
    CORN           -0.3        0     0.01709      43
    RYE            -0.2        0     0.00189      43
    BARLEY         -0.3        0     0.00326      43
    RICE           -0.2      0.4     1.58382      43
    CHICK-PEA      -0.3      0.6     0.08139      55
```

DRY-BEAN	-0.3	0.6	1.28283	55
LENTIL	-0.3	0.6	0.04017	55
DRY-PEA	-0.2	0.6	20.29605	55
POTATO	-0.2	0.3	0.05612	55
EARLY-POT	-0.4	0.6	0.02018	55
ONION	-0.2	0.6	0.05900	55
FRE-TOMATO	-0.2	0.6	0.03987	82
CON-TOMATO	-0.2	0.6	0.13427	82
AUBERGINE	-0.3	0.6	0.26040	82
MELON	-0.2	0.6	0.05472	82
CAULIFLOWR	-0.3	0.6	3.31103	82
WAT-MELON	-0.2	0.6	0.02416	82
CARROT	-0.3	0.6	1.08405	82
CABBAGE	-0.3	0.6	0.22449	82
CUCUMBER	-0.3	0.6	0.26331	82
OKRA	-0.3	0.6	18.74761	82
PEPPER	-0.3	0.6	0.34125	82
LETTUCE	-0.3	0.6	0.92849	82
SPINACH	-0.3	0.6	1.19806	82
SQUASH	-0.3	0.6	1.29527	82
LEEK	-0.3	0.6	0.46256	82
GROUNDNUT	-0.3	0.6	1.15312	55
SESAME	-0.3	0.6	8.24624	55
SUNFLOWER	-0.3	0.6	0.06434	55
SOYABEAN	-0.3	0.6	0.01407	55
LINSEED	-0.3	0.6	1.82714	55
COLZA	-0.3	0.6	3.60511	55
COTTON	-0.3	0.5	0.00394	55
TOBACCO	-0.3	0.5	1.40678	55
SUGARBEET	-0.3	0.6	0.00043	55
PISTACHIO	-0.4	0.5	49.53999	55
HAZELNUT	-0.4	0.5	2.10323	55
TAB-OLIVE	-0.3	0.6	5.76276	82
OIL-OLIVE	-0.4	0.6	1.01746	82
TEA	-0.5	0.5	1.11958	82
TAB-GRAPE	-0.1	0.1	0.03547	82
WINE-GRAPE	-0.3	0.5	0.08883	82
SULTANA	-0.3	0.5	0.06935	82
FRE-FIGS	-0.4	0.6	4.14093	82
DRY-FIGS	-0.4	0.6	1.08295	82
ORANGE	-0.2	0.8	0.29722	82
LEMON	-0.2	0.8	0.77337	82
APPLE	-0.2	0.8	0.09846	82
PEARS	-0.2	0.8	0.54185	82
FRE-PEACH	-0.2	0.8	0.46122	82
PRO-PEACH	-0.4	0.8	5.78313	82
APRICOT	-0.2	0.8	1.00372	82
CHERRY	-0.2	0.8	1.85620	82
WILDCHERRY	-0.2	0.8	1.79965	82
POMEGRAN	-0.3	0.5	1.39943	82
ALFALFA			0.00000	43
VETCH-FOD			0.02497	43
VETCH-GRA			0.00000	43
CORN-SIL			0.05601	43
SORGHUM			0.00000	43
SORGH-SIL			0.00000	43
SHEEP-MEAT	-0.5	1.2		
SHEEP-MILK	-0.3	1.0		
SHEEP-WOOL	-0.2	1.1		
SHEEP-HIDE	-0.4	1.2		
GOAT-MEAT	-0.5	1.2		
GOAT-MILK	-0.3	1.0		
GOAT-WOOL	-0.2	1.2		
GOAT-HIDE	-0.4	1.2		
ANGOR-MEAT	-0.5	1.2		
ANGOR-MILK	-0.3	1.0		
ANGOR-WOOL	-0.2	1.2		
ANGOR-HIDE	-0.4	1.2		

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     COW-MEAT       -0.4          0.5
     COW-MILK       -0.5          1.8
     COW-HIDE       -0.4          1.2
     BUFAL-MEAT     -0.5          0.5
     BUFAL-MILK     -0.5          1.8
     BUFAL-HIDE     -0.4          1.2
     POLTR-MEAT     -0.6          0.9
     EGGS           -0.6          0.9
;

TABLE RES    RESOURCE DATA

*GG GAP RESOURCE AVAILABILITY

TABLE DLNGAP(RF,LC)    DRY LAND GAP
$INCLUDE 'DRYLN.PRN'
  ;
TABLE ILNGAP(PJ,LC)    IRRI LAND GAP
$INCLUDE 'IRRLN.PRN'
  ;
* LABOR AND TRACTOR AVAILABILITY

* WATER AVAILABILITY IN NORTH AND SOUTH IN MMS
TABLE WGAP(PJ,WAID)  WATER AVAILABILITY GAP
$INCLUDE 'WATGAP.PRN'
  ;

PARAMETER WATCHA WATER CHARGES
       / WCCERX   25440
         WCRIC   128280
         WCPUL    38400
         WCTUB    45000
         WCVEGX   71760
         WCMEL    36440
         WCOIL    28480
         WCIND    53400
         WCFED    30520
         WCFRNX   75880
         WCFIG    39120
         WCCIT   102240
         WCGRA    34760
*         WCOLI    27680
         WPINDE   1.1
 /;
PARAMETER MACRO      GLOBAL PARAMETERS AND COEFFICIENTS
        /EXRATE  1500.
         FCOEF   0.5
         PQPCER  -0.00145
         PQPFAL   0.00576
         MMHA      10E+2
         EXRINX2010     1
         POPGROW      0.0190
         INCGROW      0.0300
         YLDGROW      1.3000
   /;


 TABLE  IOC     BASIC PRODUCTION COEFFICIENTS


 PARAMETERS  CONCENT      CONCENTRATE COEFFICIENTS PER OUTPUT UNIT
              / COMWHEAT  0.15
                DURWHEAT  0.15
                RYE       0.1
                BARLEY    0.15
                SUGARBEET 0.10 /,
             CONOIL    OILCAKE BY-PRODUCT COEFFICIENT
              / SUNFLOWER   0.26
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          LINSEED      0.41
          COLZA        0.25
          COTTON       0.40
          SOYABEAN     0.20/,

        ENEC   ENERGY EQUIVALENT BY-PRODUCTS PER BY PRODUCT UNIT
         /  COMWHEAT       0.50
            DURWHEAT       0.50
            RYE            0.24
            BARLEY         0.60
            SUGARBEET      0.60
            SUNFLOWER      0.53
            LINSEED        0.5
            COLZA          0.5
            COTTON         0.56
            SOYABEAN       0.68
            F-COMWHEAT     0.13
            F-DURWHEAT     0.13
            F-CORN         0.15
            F-RYE          0.17
            F-BARLEY       0.23
            F-PULSES       0.19
            F-VETCHG       0.15
            ALFALFA        0.30
            VETCH-FOD      0.40
            CORN-SIL       0.60
            SORG-SIL       0.60 /,
        LABFED   LABOR FOR HARVESTING AND FEEDING STRAW
         / LABOR-1Q      8.
           LABOR-2Q      3.
           LABOR-3Q     25.
           LABOR-4Q      5.
           TRACTOR-3Q    1./,
        FEEDREQ   FEED REQUIREMENTS (ENERY PER YIELD UNIT)
         /SHEEP-MEAT     1.5
          SHEEP-MILK     0.4
          GOAT-MEAT      1.6
          GOAT-MILK      0.4
          ANGOR-MEAT     2.0
          ANGOR-MILK     0.5
          COW-MEAT       1.8
          COW-MILK       0.4
          BUFAL-MEAT     2.0
          BUFAL-MILK     0.5
          POLTR-MEAT     2.5
          EGGS           3.5/;

TABLE FEEDABS   ABSOLUTE FEED REQUIREMENTS AND TECHNICAL PROGRESS
                NEED      PROGRESS
 SHEEP           95.        1.
 GOAT            94.        1.
 ANGORA         100.        1.
 CATTLE         290.        1.
 BUFFALO        340.        1.
 POULTRY         10.        1.

TABLE  FEEDGRAIN  DATA AND COEFFICIENTS FOR FEEDING GRAIN
                 ENEGR     MINGR      USEGR
 COMWHEAT         0.72      0.30   2199.011
 DURWHEAT         0.72      0.03    219.901
 CORN             0.78      0.11    744.281
 RYE              0.65      0.03    243.583
 BARLEY           0.71      0.51   3790.971
 VETCH-GRA        0.65      0.01
 SORGHUM          0.78      0.01

 PARAMETER YGP ROT AND GAP YIELD GROWTH TO 2010
 /    RLMDG  1.05,    GLMDG   1.05
```

```
        RLMDC  1.05,     GLMDC   1.05
        RLMDF  1.05,     GLMDF   1.05
        RFRTG  1.20,     GFRTG   1.20
        RFRTC  1.20,     GFRTC   1.20
        RFRTF  1.10,     GFRTF   1.10
        RYIEG  1.40,     GYIEG   1.40
        RYIEC  1.40,     GYIEC   1.40
        RYIEF  1.20,     GYIEF   1.20 /;

*GG-------------------------------------------------------------*
* GAP REGION INPUT OUTPUT COEFFICIENTS
TABLE IOLN(IG,T,LC,ALR,YTG)  MONTHLY LAND COEFFS FOR IRRI AND DRY
$INCLUDE 'INLND.PRN'
  ;
TABLE IOLB(IG,T,LC,ALR,LG)  MONTHLY LABOR COEFFICIENTS
$INCLUDE 'INLAB.PRN'
 ;
TABLE IOMH(IG,T,LC,ALR,MG)  MONTHLY MACHINE COEFFICIENTS
$INCLUDE 'INMAC.PRN'
 ;
TABLE IOWT(IG,T,LC,PJ,W) MONTHLY WATER COEF FOR PEAK DEMAND 10 DAY PER
$INCLUDE 'INWAT.PRN'
 ;
TABLE IOFC(IG,T,LC,ALR,F)  FERTILIZER AND CHEMICAL COEFFS
$INCLUDE 'INFRT.PRN'
 ;
PARAMETER IOSD(IG,T,LC,ALR,D) SEED COEFFICIENTS
$INCLUDE 'INSEED.PRN'
  ;
PARAMETER IOYI(IG,T,LC,ALR,OCR)  YIELD COEFFICIENTS
$INCLUDE 'MYIELD.PRN'
  ;
PARAMETER IOBY(IG,T,LC,ALR,G1)  BY-PRODUCT COEFFICIENTS
$INCLUDE 'BYIELD.PRN'
  ;

*-------------------------------------------------------------*
*           CALCULATION OF MODEL PARAMETERS AND COEFICIENTS      *
*-------------------------------------------------------------*
*  QUADRATIC COST TERM CALCULATIONS FOR LABOUR AND TRACTORS
*  ASSUMED SHIFT FACTORS:
*          AVAILABLE STOCK, AVERAGE COSTS, RELATIVE UNEMPLOYMENT.
 PARAMETERS    PQPLT     QUADRATIC LABOUR AND TRACTOR COSTS    ,
               RUNEMP    RELATIVE EMPLOYMENT OF LABOUR AND TRACTORS
                / LABOR      0.80
                  TRACTOR    0.18/;

  PQPLT(L)= ((RES(L,"PRICE")*RES(L,"PINDEX2010")) / (MACRO("EXRATE")
            *MACRO("EXRINX2010")))  / (RUNEMP("LABOR") * RES(L,"QUANT")
            *RES(L,"QINDEX2010")) ;
  PQPLT(M)= (RES(M,"PRICE")*RES(M,"PINDEX2010")) / (RUNEMP("TRACTOR")
            * (RES(M,"QUANT")*RES(M,"QINDEX2010")));

 PARAMETERS    PQPLG    QUADRATIC LABOUR COSTS FOR GAP    ,
               PQPTG    QUADRATIC MACHINE COSTS FOR GAP ,
               RUNEMPG   RELATIVE EMPLOYMENT OF LABOUR AND TRACTORS
                / LABOR      0.80
                  TRACTOR    0.18/;
          PQPLG     =     ((RES("LABORG","PRICE")*RES("LABORG","PINDEX2010"))
/(MACRO("EXRATE")
            *MACRO("EXRINX2010")))  / (RUNEMPG("LABOR") *
          RES("LABORG","QUANT")*RES("LABORG","QINDEX2010")) ;
  PQPTG = (RES("TRACTORG","PRICE")*RES("TRACTORG","PINDEX2010")) /
           (RUNEMPG("TRACTOR") * RES("TRACTORG","QUANT")*
           RES("TRACTORG","QINDEX2010"));

 PARAMETER     P     CROP PRODUCTION COEFFICIENTS ;
    P(S,IR) = IOC(S,IR)          ;
    P(B,IR) = IOC(B,IR)          ;
```

```
  P("FALLOW",IR) = IOC("FALLOW",IR);
  P(L,IR) = IOC(L,IR)*YGP("RLMDG")   ;
  P(L, ALCER) =  IOC(L, ALCER)*YGP("RLMDC")  ;
  P(L, ALFRN) =  IOC(L, ALFRN)*YGP("RLMDF")   ;

  P(M,IR) = IOC(M, IR)*YGP("RLMDG")  ;
  P(M, ALCER) =  IOC(M, ALCER)*YGP("RLMDC")  ;
  P(M, ALFRN) =  IOC(M, ALFRN)*YGP("RLMDF")   ;
  P(F,IR)  =  IOC(F, IR) * RES(F,"REINDEX")*YGP("RFRTG") ;
  P(F,ALCER)  =  IOC(F, ALCER) * RES(F,"REINDEX")*YGP("RFRTC");
  P(F,ALFRN)  =  IOC(F, ALFRN) * RES(F,"REINDEX")*YGP("RFRTF") ;
  P(D,IR)  =  IOC(D, IR)*YGP("RLMDG")     ;
  P(D, ALCER) =  IOC(D, ALCER)*YGP("RLMDC")  ;


  P(OAL, IR) =  IOC(OAL, IR)*YGP("RYIEG")   ;
  P(OAL, ALCER) =  IOC(OAL, ALCER)*YGP("RYIEC")  ;
  P(OAL, ALFRN) =  IOC(OAL, ALFRN)*YGP("RYIEF")   ;

  P(G,IR)    = IOC(G,IR)*YGP("RYIEG")   ;
  P(G, ALCER) =  IOC(G, ALCER)*YGP("RYIEC")  ;

PARAMETER PG CROP PRODUCTION COEFS FOR GAP;

  PG("TYR",IG,T,LC,ALR)$(IOLN(IG,T,LC,ALR,"TYR") NE 0) =
              IOLN(IG,T,LC,ALR,"TYR");

  PG(TG,IG,T,LC,ALR)$(IOLN(IG,T,LC,ALR,"TYR") NE 0.0)
           = IOLN(IG,T,LC,ALR,TG);
  PG(LG,IG,T,LC,ALR)$(PG("TYR",IG,T,LC,ALR) NE 0)
           =IOLB(IG,T,LC,ALR,LG)*10*YGP("GLMDG");
  PG(LG,AGCER,T,LC,ALR)$(PG("TYR",AGCER,T,LC,ALR) NE 0)
           =IOLB(AGCER,T,LC,ALR,LG)*10*YGP("GLMDC");
  PG(LG,AGFRN,T,LC,ALR)$(PG("TYR",AGFRN,T,LC,ALR) NE 0)
           =IOLB(AGFRN,T,LC,ALR,LG)*10*YGP("GLMDF");
  PG(MG,IG,T,LC,ALR)$(PG("TYR",IG,T,LC,ALR) NE 0)
           =IOMH(IG,T,LC,ALR,MG)*10*YGP("GLMDG");
  PG(MG,AGCER,T,LC,ALR)$(PG("TYR",AGCER,T,LC,ALR) NE 0)
           =IOMH(AGCER,T,LC,ALR,MG)*10*YGP("GLMDC");
  PG(MG,AGFRN,T,LC,ALR)$(PG("TYR",AGFRN,T,LC,ALR) NE 0)
           =IOMH(AGFRN,T,LC,ALR,MG)*10*YGP("GLMDF");

  PG(F,IG,T,LC,ALR)$(PG("TYR",IG,T,LC,ALR) NE 0)
           =IOFC(IG,T,LC,ALR,F)*10*YGP("GFRTG");
  PG(F,AGCER,T,LC,ALR)$(PG("TYR",AGCER,T,LC,ALR) NE 0)
           =IOFC(AGCER,T,LC,ALR,F)*10*YGP("GFRTC");
  PG(F,AGFRN,T,LC,ALR)$(PG("TYR",AGFRN,T,LC,ALR) NE 0)
           =IOFC(AGFRN,T,LC,ALR,F)*10*YGP("GFRTF");
  PG(D,IG,T,LC,ALR)$(IOSD(IG,T,LC,ALR,D) NE 0)
           =IOSD(IG,T,LC,ALR,D)*10*YGP("GLMDG");
  PG(D,AGCER,T,LC,ALR)$(IOSD(AGCER,T,LC,ALR,D) NE 0)
           =IOSD(AGCER,T,LC,ALR,D)*10*YGP("GLMDC");

  PG(OCR,IG,T,LC,ALR)$(PG("TYR",IG,T,LC,ALR) NE 0)
           =(IOYI(IG,T,LC,ALR,OCR)/100)*YGP("GYIEG");
  PG(OCR,AGCER,T,LC,ALR)$(PG("TYR",AGCER,T,LC,ALR) NE 0)
           =(IOYI(AGCER,T,LC,ALR,OCR)/100)*YGP("GYIEC");
  PG(OCR,AGFRN,T,LC,ALR)$(PG("TYR",AGFRN,T,LC,ALR) NE 0)
           =(IOYI(AGFRN,T,LC,ALR,OCR)/100)*YGP("GYIEF");

  PG(G1,IG,T,LC,ALR)$(IOBY(IG,T,LC,ALR,G1) NE 0)
           =(IOBY(IG,T,LC,ALR,G1)/100)*YGP("GYIEG");
  PG(G1,AGCER,T,LC,ALR)$(IOBY(AGCER,T,LC,ALR,G1) NE 0)
           =(IOBY(AGCER,T,LC,ALR,G1)/100)*YGP("GYIEC");
  PG(W,IG,T,LC,PJ)$(IOWT(IG,T,LC,PJ,W) NE 0.0)
           =IOWT(IG,T,LC,PJ,W)*10  ;
```

```
 PARAMETERS      Q           LIVESTOCK PRODUCTION COEFFICIENTS,
                 QQ          INDEX OF LIVESTOCK GRAIN CONSUMPTION
                           / COMWHEAT=1,  DURWHEAT=1,  CORN=1,  RYE=1,  BARLEY=1  /
;
    Q(L,J) = (IOC("LABOR",J) / 4)    ;
    Q("ANIMAL",J) = IOC("ANIMAL",J)  ;

* YIELD GROWTH FOR THE PROJECTIONS

    Q(O,J) = (IOC(O,J) *MACRO("YLDGROW")) / 1000          ;
    Q("TENE",J) =((SUM(O,IOC(O,J)  * FEEDREQ(O)) + FEEDABS(J,"NEED")))
                  *FEEDABS(J,"PROGRESS");
    Q(TC,J) = Q("TENE",J) * IOC(TC,J)/100;
    Q(G,J) = Q(G,J) / 1000          ;
*-------------------------------------------------------------------*

 PARAMETER      PCOST       CROP PRODUCTION COSTS FOR ROT,
                PGCOST      CROP PRODUCTION COSTS FOR GAP;

  PCOST("FERTILIZER",IR)=SUM(F,P(F,IR) *RES(F,"PRICE")
                             *RES(F,"PINDEX2010"));
  PCOST("SEED",IR) = SUM(D,P(D,IR)*RES(D,"PRICE")*RES(D,"PINDEX2010"))
                       /(MACRO("EXRATE")*MACRO("EXRINX2010"));
  PCOST("CAPITAL",IR) = P("TREE",IR)* RES(IR,"PRICE")*RES(IR,"PINDEX2010")
                        /(MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCCERX",IRCERX)=(P("IRR-
EITH",IRCERX)*WATCHA("WCCERX")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCRIC",IRRIC)=(P("IRR-
EITH",IRRIC)*WATCHA("WCRIC")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCPUL",IRPUL)=(P("IRR-
EITH",IRPUL)*WATCHA("WCPUL")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCTUB",IRTUB)=(P("IRR-
EITH",IRTUB)*WATCHA("WCTUB")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCVEGX",IRVEGX)=(P("IRR-
EITH",IRVEGX)*WATCHA("WCVEGX")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCMEL",IRMEL)=(P("IRR-
EITH",IRMEL)*WATCHA("WCMEL")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCOIL",IROIL)=(P("IRR-
EITH",IROIL)*WATCHA("WCOIL")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCIND",IRIND)=(P("IRR-
EITH",IRIND)*WATCHA("WCIND")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCFED",IRFED)=(P("IRR-
EITH",IRFED)*WATCHA("WCFED")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCFRNX",IRFRNX)=(P("TREE",IRFRNX)*WATCHA("WCFRNX")*WATCHA("WPINDE"))
/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCFIG",IRFIG)=(P("TREE",IRFIG)*WATCHA("WCFIG")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCCIT",IRCIT)=(P("TREE",IRCIT)*WATCHA("WCCIT")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));
PCOST("CWCGRA",IRGRA)=(P("TREE",IRGRA)*WATCHA("WCGRA")*WATCHA("WPINDE"))/
                        (MACRO("EXRATE")*MACRO("EXRINX2010"));

PGCOST("FERTILIZER",IG,T,LC,ALR)
       = SUM(F$(PG(F,IG,T,LC,ALR) NE 0), PG(F,IG,T,LC,ALR)*
        RES(F,"PRICE")*RES(F,"PINDEX2010"));
PGCOST("SEED",IG,T,LC, ALR)
        = SUM(D$(PG(D,IG,T,LC,ALR) NE 0), (PG(D,IG,T,LC,ALR)*
        RES(D,"PRICE")*RES(D,"PINDEX2010"))/(MACRO("EXRATE")*
        MACRO("EXRINX2010")));
PGCOST("CAPITAL",AGFRN,T,LC, ALR)$(PG("TYR",AGFRN,T,LC,ALR) NE 0)
        =(PG("TYR",AGFRN,T,LC,ALR)*RES(AGFRN,"PRICE")*
```

```
        RES(AGFRN,"PINDEX2010"))/(MACRO("EXRATE")*MACRO("EXRINX2010"));

PGCOST("CWCCERX",IGCERX,T,LC,PJ)$(PG("TYR",IGCERX,T,LC,PJ) NE 0)
   =(PG("TYR",IGCERX,T,LC,PJ)*WATCHA("WCCERX")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));

PGCOST("CWCRIC",IGRIC,T,LC,PJ)$(PG("TYR",IGRIC,T,LC,PJ) NE 0)
  =(PG("TYR",IGRIC,T,LC,PJ)*WATCHA("WCRIC")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));
PGCOST("CWCPUL",IGPUL,T,LC,PJ)$(PG("TYR",IGPUL,T,LC,PJ) NE 0)
  =(PG("TYR",IGPUL,T,LC,PJ)*WATCHA("WCPUL")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));

PGCOST("CWCTUB",IGTUB,T,LC,PJ)$(PG("TYR",IGTUB,T,LC,PJ) NE 0)
  =(PG("TYR",IGTUB,T,LC,PJ)*WATCHA("WCTUB")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));
PGCOST("CWCVEGX",IGVEGX,T,LC,PJ)$(PG("TYR",IGVEGX,T,LC,PJ) NE 0)
  =(PG("TYR",IGVEGX,T,LC,PJ)*WATCHA("WCVEGX")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));
PGCOST("CWCMEL",IGMEL,T,LC,PJ)$(PG("TYR",IGMEL,T,LC,PJ) NE 0)
  =(PG("TYR",IGMEL,T,LC,PJ)*WATCHA("WCMEL")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));

PGCOST("CWCOIL",IGOIL,T,LC,PJ)$(PG("TYR",IGOIL,T,LC,PJ) NE 0)
  =(PG("TYR",IGOIL,T,LC,PJ)*WATCHA("WCOIL")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));

PGCOST("CWCIND",IGIND,T,LC,PJ)$(PG("TYR",IGIND,T,LC,PJ) NE 0)
  =(PG("TYR",IGIND,T,LC,PJ)*WATCHA("WCIND")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));
PGCOST("CWCFED",IGFED,T,LC,PJ)$(PG("TYR",IGFED,T,LC,PJ) NE 0)
  =(PG("TYR",IGFED,T,LC,PJ)*WATCHA("WCFED")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));
PGCOST("CWCFRNX",IGFRNX,T,LC,PJ)$(PG("TYR",IGFRNX,T,LC,PJ) NE 0)
  =(PG("TYR",IGFRNX,T,LC,PJ)*WATCHA("WCFRNX")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));
PGCOST("CWCFIG",IGFIG,T,LC,PJ)$(PG("TYR",IGFIG,T,LC,PJ) NE 0)
  =(PG("TYR",IGFIG,T,LC,PJ)*WATCHA("WCFIG")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));
PGCOST("CWCGRA",IGGRA,T,LC,PJ)$(PG("TYR",IGGRA,T,LC,PJ) NE 0)
  =(PG("TYR",IGGRA,T,LC,PJ)*WATCHA("WCGRA")*WATCHA("WPINDE"))/
                                    (MACRO("EXRATE")*MACRO("EXRINX2010"));

*-------------------------------------------------------------------*
*            DEMAND CURVES CALCULATIONS                             *
*-------------------------------------------------------------------*
 PARAMETERS     IMPRICE    IMPORT PRICE,
                EXPRICE    EXPORT PRICE,
                TCON       CONSUMPTION OF RAW PRODUCTS,
                DPRI       DEMAND CURVE PRICES,
                ALPHA      DEMAND CURVE INTERCEPT,
                BETA       DEMAND CURVE SLOPE,
                ALPHA10    PROJECTED INTERCEPT,
                BETA10     PROJECTED SLOPE,
                EXPINDEX   EXPORT INDEX,
                IMPINDEX   IMPORT INDEX;
                 IMPRICE(O)  =    TRADE(O,"IMP-P");
                 IMPINDEX(O) $ TRADE(O,"IMP-Q") = 1  ;
                 EXPRICE(O)  =    TRADE(O,"EXP-P");
                 EXPINDEX(O) $ TRADE(O,"EXP-Q")  =  1   ;
   TCON(O)      = DOM(O,"DPROD")*(1-CONCENT(O))*(1-CONOIL(O))
                 + TRADE(O,"IMP-Q")
                 - TRADE(O,"EXP-Q")
                 - FEEDGRAIN(O,"USEGR");
   DPRI(O)         = DOM(O,"DPRICES")*1000 / MACRO("EXRATE");
   BETA(O)         = DPRI(O) / (PAR(O,"ELAST-P") * TCON(O)) ;
* -------------------------------------------------------------------*
*               GRAIN-FEED USE CALIBRATION                          *
```

```
*-------------------------------------------------------------------*
*
    ALPHA(O)        = DPRI(O) - BETA(O) * TCON(O)            ;
*DISPLAY TCON,DPRI,ALPHA,BETA;

*-------------------------------------------------------------------*
*                DEMAND CURVE PROJECTIONS TO 2010                   *
*-------------------------------------------------------------------*
    BETA10(O) = BETA(O)/((1+MACRO("POPGROW"))**22);
      ALPHA10(O)=  ALPHA(O)*(1+PAR(O,"ELAST-I")*(((1+MACRO("INCGROW"))**22)-
1));
* DISPLAY ALPHA,ALPHA10,BETA,BETA10;
*$OFFTEXT
*-------------------------------------------------------------------*
*           5M.   EQUATION PART                                     *
*-------------------------------------------------------------------*

 VARIABLES       PROFIT     OBJECTIVE FUNCTION
                 RELFAL     RELATIVE FALLOW
 POSITIVE VARIABLES
                 CROPS      PRODUCTION OF CROP ROT
                 CROPSG     PRODUCTION OF CROP GAP
                 PRODUCT    PRODUCTION OF LIVESTOCK
                 PFERT      PURCHASE OF FERTILIZER
                 PRCOST     PRODUCTION COSTS
                 LATRUSE    LABOR AND TRACTOR USE
                 FEED       FEED USE IN ANIMAL PRODUCTION IN ENERGY UNITS
                 FGRAIN     COMPOSITION OF FEEDGRAIN IN PRODUCT WEIGHT
                 TPRROT     PRODUCTION IN ROT
                 TPRGAP     PRODUCTION IN GAP
                 TOTALPROD  TOTAL PRODUCTION IN RAW FORM
                 TOTALCONS  TOTAL CONSUMPTION IN PROCESSED FORM
                 IMPORT     IMPORT OF LIVESTOCK AND CROPS
                 EXPORT     EXPORT OF LIVESTOCK AND CROPS
                 CERAREA    CEREAL AREA
                 FALAREA    FALLOW AREA
                 LATRUSEG   LABOR AND TRACTOR USE IN GAP
;
* BOUNDS FOR TRADE
              IMPORT.UP(O)    =  TRADE2010(O,"IMP-Q") ;
              EXPORT.UP(O)    =  TRADE2010(O,"EXP-Q") ;
* INTITIAL CONDITIONS
         TOTALPROD.L(OAL) = DOM(OAL,"DPROD");
         TOTALCONS.L(O)   = DOM(O,"DPROD")  ;
         PRODUCT.L(J)     = RES(J,"QUANT")  ;

 EQUATIONS       LAND       BASIC LAND CONSTRAINTS
                 LABTRAC    LABOR AND TRACTOR CONSTRAINTS
                 PURCFERT   PURCHASE FERTILIZER
                 PRODCOST   PRODUCTION COSTS
                 TPRODROT   PRODUCTION ROT
                 TPRODGAP   PRODUCTION GAP
                 PRODUCTION PRODUCTION BALANCES
                 FEEDSTRAW  FEED SUPPLY STRAW
                 FEEDCON    FEED SUPPLY CONCENTRATES
                 FEEDCERI   GRAIN USED FOR ANIMAL FEEDING
                 FEEDPAST   FEED SUPPLY FROM PASTURE
                 FEEDOIL    FEED SUPPLY OIL CAKE
                 FEEDFODD   FEED SUPPLY ALFALFA AND FODDER
                 TOTALFEED  TOTAL FEED BALANCE
                 MINFEED    MINIMUM FEED REQUIREMENTS BY COMPONENTS
                 MINGRCOIL  MINIMUM GRAIN CONCENTRATES AND OILCAKE
                 MINGROIL   MINIMUM GRAIN AND OILCAKE
                 MINGRAIN   MINIMUM SHARE OF INDIVIDUAL GRAINS
                 COMBAL     COMMODITIES BALANCES
                 CERBAL     CEREAL BALANCE
                 FALBAL     FALLOW BALANCE
                 SURPLUS    OBJECTIVE FUNCTION
                 ANIMALINV ANIMAL INVENTORY
```

```
                    LANDDG     DRY LAND CONSTRAINTS FOR GAP
                    LANDIG     IRRI LAND CONSTRAINTS FOR GAP
                    LABTRACG   LABOR AND TRACTOR CONSTRAINTS FOR GAP
                    WATERPK    PEAK PERIODS WATER CONSTRAINTS
                    WATERNPK   WATER NON PEAK PERIODS CONSTRAINTS
                    WATERTOT   WATER YEARLY CONSTRAINTS
                    FRUUL1     FRUITS AND NUTS AREA UPPER LIMIT LC1I
                    FRUUL2     FRUITS AND NUTS AREA UPPER LIMIT LC23
                    FRUUL3     FRUITS AND NUTS AREA UPPER LIMIT LC1D
                    FRUUL4
                    FRUUL5
                    FRUUL6
                    FRUUL7
                    RFRLOL     ROT FRUIT LOWER LIMIT
                    CEVAROT    CEREALS VARIOUS ROTATION
                    GVEGLI     GAP VEGS LIMIT
                    GVEGLI2
                    CCEREA
                    CPULSE
                    CSUNFL
                    CSOYBE
                    CGROUN
                    CCOTTO
                    CSUGAR
                    CPOTAT
                    CONION
                    CMELON
;
    LAND(S)..          SUM(IR, P(S,IR) * CROPS(IR))
                      =L=   RES(S, "QUANT")*RES(S,"QINDEX2010")        ;

    LABTRAC(LM)..      SUM((IR), P(LM,IR) * CROPS(IR))
                       +SUM(J,Q(LM,J) * PRODUCT(J))
                       +LABFED(LM) * FEED("TSTRAW")
                      =E= LATRUSE(LM)                                  ;

     LANDDG(RF,LC,TG)..   SUM((IG,T), PG(TG,IG,T,LC,RF) *
          CROPSG(IG,T,LC,RF)) =L= DLNGAP(RF,LC)/1000 ;

     LANDIG(PJ,LC,TG)..   SUM((IG,T), PG(TG,IG,T,LC,PJ) *
          CROPSG(IG,T,LC,PJ)) =L= ILNGAP(PJ,LC)/1000 ;

     LABTRACG(LMG)..   SUM((IG,T,LC,ALR), PG(LMG,IG,T,LC,ALR) *
          CROPSG(IG,T,LC,ALR)) =E= LATRUSEG(LMG)          ;

     WATERPK(PJ,WPK)..  SUM((IG,T,LC), PG(WPK,IG,T,LC,PJ) *
          CROPSG(IG,T,LC,PJ)) =L=
          WGAP(PJ,"WAP")*MACRO("MMHA")*WGAP(PJ,"EP") ;

     WATERNPK(PJ,WNPK)..  SUM((IG,T,LC), PG(WNPK,IG,T,LC,PJ) *
          CROPSG(IG,T,LC,PJ)) =L=
          WGAP(PJ,"WANP")*MACRO("MMHA")*WGAP(PJ,"EP") ;

     WATERTOT(PJ)..  SUM((W,IG,T,LC), PG(W,IG,T,LC,PJ) *
          CROPSG(IG,T,LC,PJ)) =L=
          WGAP(PJ,"WAT")*MACRO("MMHA")*WGAP(PJ,"EP");

* AGRONOMIC CONSTRAINTS

    CCEREA(LC,PJ)..  SUM((IGWB,T), PG("TYR",IGWB,T,LC,PJ)
                    *CROPSG(IGWB,T,LC,PJ))
                    =L= (ILNGAP(PJ,LC)/1000)*0.5 ;

    CPULSE(LC,PJ)..  SUM((IGPUL,T), PG("TYR",IGPUL,T,LC,PJ)
                    *CROPSG(IGPUL,T,LC,PJ))
                    =L= (ILNGAP(PJ,LC)/1000)*0.5 ;

    CSUNFL(LC,PJ)..  SUM((IGSUN,T), PG("TYR",IGSUN,T,LC,PJ)
```

```
                *CROPSG(IGSUN,T,LC,PJ))
                =L= (ILNGAP(PJ,LC)/1000)*0.5 ;

CSOYBE(LC,PJ)..  SUM((IGSOY,T), PG("TYR",IGSOY,T,LC,PJ)
                *CROPSG(IGSOY,T,LC,PJ))
                =L= (ILNGAP(PJ,LC)/1000)*0.5 ;

CGROUN(LC,PJ)..  SUM((IGGRO,T), PG("TYR",IGGRO,T,LC,PJ)
                *CROPSG(IGGRO,T,LC,PJ))
                =L= (ILNGAP(PJ,LC)/1000)*0.5 ;

CCOTTO(LC,PJ)..  SUM((IGCOT,T), PG("TYR",IGCOT,T,LC,PJ)
                *CROPSG(IGCOT,T,LC,PJ))
                =L= (ILNGAP(PJ,LC)/1000)*0.66 ;

CSUGAR(LC,PJ)..  SUM((IGSUG,T), PG("TYR",IGSUG,T,LC,PJ)
                *CROPSG(IGSUG,T,LC,PJ))
                =L= (ILNGAP(PJ,LC)/1000)*0.33 ;

CPOTAT(LC,PJ)..  SUM((IGPOT,T), PG("TYR",IGPOT,T,LC,PJ)
                *CROPSG(IGPOT,T,LC,PJ))
                =L= (ILNGAP(PJ,LC)/1000)*0.5  ;
CONION(LC,PJ)..  SUM((IGONI,T), PG("TYR",IGONI,T,LC,PJ)
                *CROPSG(IGONI,T,LC,PJ))
                =L= (ILNGAP(PJ,LC)/1000)*0.5  ;

CMELON(LC,PJ)..  SUM((IGMEL,T), PG("TYR",IGMEL,T,LC,PJ)
                *CROPSG(IGMEL,T,LC,PJ))
                =L= (ILNGAP(PJ,LC)/1000)*0.5  ;

GVEGLI(LC,PJ)..  SUM((IGVEGX,T), PG("TYR",IGVEGX,T,LC,PJ)*
                CROPSG(IGVEGX,T,LC,PJ)) =L=
                (ILNGAP(PJ,LC)/1000)*0.25;

GVEGLI2(LC,PJ,IGVEGX)..  SUM(T, PG("TYR",IGVEGX,T,LC,PJ)*
                CROPSG(IGVEGX,T,LC,PJ)) =L=
                (ILNGAP(PJ,LC)/1000)*0.25*0.25;

CEVAROT(LC,RF)..  SUM((DGCER,T), PG("TYR",DGCER,T,LC,RF)
                *CROPSG(DGCER,T,LC,RF))
                =E=SUM((DGVAR,T), PG("TYR",DGVAR,T,LC,RF)
                *CROPSG(DGVAR,T,LC,RF));

FRUUL1(PJ,LCT1).. SUM((IGFRN,T), PG("TYR",IGFRN,T,LCT1,PJ)*
       CROPSG(IGFRN,T,LCT1,PJ)) =L= (ILNGAP(PJ,LCT1)/1000)*0.15;

FRUUL2(PJ,LC23).. SUM((IGFRN,T), PG("TYR",IGFRN,T,LC23,PJ)*
       CROPSG(IGFRN,T,LC23,PJ)) =L= (ILNGAP(PJ,LC23)/1000)*0.15;

FRUUL3(RF,LCT1).. SUM((DGFRN,T), PG("TYR",DGFRN,T,LCT1,RF)*
       CROPSG(DGFRN,T,LCT1,RF)) =L= (DLNGAP(RF,LCT1)/1000)*0.15;

FRUUL4(RFX,LC23).. SUM((DGFRN,T), PG("TYR",DGFRN,T,LC23,RFX)*
       CROPSG(DGFRN,T,LC23,RFX)) =L= (DLNGAP(RFX,LC23)/1000)*0.40;

FRUUL5(RFX,LCT4).. SUM((DGFRN,T), PG("TYR",DGFRN,T,LCT4,RFX)*
       CROPSG(DGFRN,T,LCT4,RFX)) =L= (DLNGAP(RFX,LCT4)/1000)*0.50;

FRUUL6(RFSL,LC24).. SUM((DGFRN,T), PG("TYR",DGFRN,T,LC24,RFSL)*
       CROPSG(DGFRN,T,LC24,RFSL)) =L= (DLNGAP(RFSL,LC24)/1000)*0.90;

FRUUL7..  SUM((DGFRN,T,LC), PG("TYR",DGFRN,T,LC,"SLR")*
                CROPSG(DGFRN,T,LC,"SLR")) =L=
                (SUM(LC, DLNGAP("SLR",LC))/1000)*0.50;

RFRLOL(OFRX)..  SUM(ALFRN, P(OFRX, ALFRN)*CROPS(ALFRN))
                =G= 0.75*DOM(OFRX,"DPROD");
```

```
ANIMALINV(J)..  PRODUCT(J) =L= RES(J,"QUANT")*2.0;

FEEDSTRAW..     SUM((IR,G1),P(G1,IR) * CROPS(IR) *ENEC(G1))
                +SUM((IG,G1,T,LC,ALR), PG(G1,IG,T,LC,ALR)*
                 CROPSG(IG,T,LC,ALR)*ENEC(G1))
                 =G= FEED("TSTRAW")                                    ;
FEEDCON..       SUM(G2, TOTALPROD(G2)  * CONCENT(G2) * ENEC(G2))
                 =G= FEED("TCONCEN")                                   ;
FEEDCERI..      SUM(G3,FGRAIN(G3) *FEEDGRAIN(G3,"ENEGR"))
                 =G= FEED("TGRAIN")                                    ;
FEEDPAST..      CROPS("PASTUSE")*P("PASTFEED","PASTUSE")
                 =G= FEED("TPAST")                                     ;
FEEDOIL..        SUM(G4, TOTALPROD(G4) * CONOIL(G4) * ENEC(G4))
                  =G= FEED("TOIL")                                     ;
FEEDFODD..      SUM(G5,TOTALPROD(G5) * ENEC(G5))
                  =G= FEED("TFODD")                                    ;
TOTALFEED..       SUM(TF,FEED(TF))
                  =G= SUM(J,Q("TENE",J) * PRODUCT(J))                  ;
MINFEED(TF)..     FEED(TF) =G= SUM(J,Q(TF,J) *PRODUCT(J))              ;
MINGRCOIL..       FEED("TGRAIN") + FEED("TCONCEN") + FEED("TOIL")
                  =G= SUM(J,Q("TGRCONOIL",J) * PRODUCT(J))             ;
MINGROIL..        FEED("TGRAIN") + FEED("TOIL")
                  =G= SUM(J,Q("TGROIL",J) * PRODUCT(J))                ;
MINGRAIN(G3)..    FGRAIN(G3) * FEEDGRAIN(G3,"ENEGR")
                   =G= FEED("TGRAIN") * FEEDGRAIN(G3,"MINGR")          ;
PURCFERT(F)..     (SUM(IR, P(F,IR) * CROPS(IR)))
                  +(SUM((IG,T,LC,ALR), PG(F,IG,T,LC,ALR) *
                   CROPSG(IG,T,LC,ALR)))
                    =E=   PFERT(F)                                     ;

PRODCOST(E)..     (SUM(IR, PCOST(E,IR) * CROPS(IR)))
                 +(SUM((IG,T,LC,ALR), PGCOST(E,IG,T,LC,ALR) *
                  CROPSG(IG,T,LC,ALR)))
                 =E= PRCOST(E)                                         ;

TPRODROT(OAL).. -(SUM(IR, P(OAL,IR) * CROPS(IR))
                +SUM(J,Q(OAL,J) * PRODUCT(J)))+TPRROT(OAL) =L= 0;

TPRODGAP(OAL).. -(SUM((IG,T,LC,ALR), PG(OAL,IG,T,LC,ALR) *
                 CROPSG(IG,T,LC,ALR)))+TPRGAP(OAL) =L= 0 ;

PRODUCTION(OAL).. -(TPRROT(OAL)+TPRGAP(OAL))+TOTALPROD(OAL) =L= 0 ;

COMBAL(O).. -(TOTALPROD(O)*(1-CONCENT(O))*(1-CONOIL(O))+IMPORT(O))
            +(TOTALCONS(O)+EXPORT(O)+ QQ(O)*FGRAIN(O))=L= 0     ;

CERBAL..          SUM((BC,IR), P(BC,IR) * CROPS(IR))
                  =E= CERAREA                                          ;
FALBAL..          SUM(IR, P("FALLOW",IR) * CROPS(IR))
                  =E=   FALAREA                                        ;

SURPLUS..       SUM(O, ALPHA10(O) * TOTALCONS(O) + 0.5 * BETA10(O)
                * TOTALCONS(O) ** 2)
                + SUM(O, EXPORT(O)*(TRADE(O,"EXP-P")*
                  TRADE(O,"PFACT10")))
                - SUM(O, IMPORT(O)*(TRADE(O,"IMP-P")*
                  TRADE(O,"PFACT10")))
                - SUM(E, PRCOST(E))
                + 0.37*(SUM(J, Q("ANIMAL",J)*PRODUCT(J)))
                - 0.5 * SUM(LM,PQPLT(LM) * LATRUSE(LM) ** 2 )
                - 0.5*SUM(LG, PQPLG*LATRUSEG(LG)**2)
                - 0.5*SUM(MG, PQPTG*LATRUSEG(MG)**2)
                - 0.5 * SUM(OCR,PAR(OCR,"PQP1")* TOTALPROD(OCR)**2)
                - 0.5 * SUM(J, RES(J,"PQP3")* PRODUCT(J)**2)
                =E=    PROFIT                                          ;

* ---------------------------------------------------------
 OPTION       LIMROW  =     1     ;
```

```
OPTION       LIMCOL  =     0     ;
OPTION       ITERLIM =  30000    ;
OPTION      RESLIM = 30000  ;
MODEL TGAP / LAND,LABTRAC,PURCFERT,PRODCOST,
             FEEDSTRAW,FEEDCON,FEEDCERI,FEEDPAST,FEEDOIL,FEEDFODD,
             TOTALFEED,MINFEED,MINGRCOIL,MINGROIL,MINGRAIN,
             CERBAL,FALBAL,SURPLUS,ANIMALINV,
             LANDDG,LANDIG,LABTRACG,WATERPK,WATERNPK,WATERTOT,
             FRUUL1,FRUUL2,FRUUL3,FRUUL4,FRUUL5,FRUUL6,FRUUL7,RFRLOL,
             GVEGLI,CEVAROT,
             GVEGLI2,CCEREA,CPULSE,CSUNFL,CSOYBE,CGROUN,CCOTTO,
             CSUGAR,CPOTAT,CONION,CMELON,
             TPRODROT,TPRODGAP,PRODUCTION,COMBAL /;

SOLVE       TGAP      MAXIMIZING PROFIT  USING NLP    ;

*-------------------------------------------------------------------*

RESTART PROGRAM FILE TO INCORPORATE THE TRANSPORTATION COSTS

$TITLE TURGAP-CALIB
$OFFSYMLIST OFFSYMXREF

 TABLE   CSTR TRANS COSTS

                    CCTRAN    REGC
    COMWHEAT            43     0.8
    DURWHEAT            43     0.8
    CORN                43     0.8
    RYE                 43     0.8
    BARLEY              43     0.8
    RICE                43     1.0
    CHICK-PEA           55     1.0
    DRY-BEAN            55     1.0
    LENTIL              55     1.0
    DRY-PEA
    POTATO              55     0.5
    EARLY-POT           55     0.8
    ONION               55     0.5
    FRE-TOMATO          82     1.0
    CON-TOMATO          82     0.5
    AUBERGINE           82     1.0
    MELON               82     0.5
    CAULIFLOWR          82     1.0
    WAT-MELON           82     0.5
    CARROT              82     1.0
    CABBAGE             82     0.5
    CUCUMBER            82     1.0
    OKRA                82     1.2
    PEPPER              82     1.0
    LETTUCE             82     0.5
    SPINACH             82     1.0
    SQUASH              82     1.0
    LEEK                82     1.0
    GROUNDNUT           55     1.0
    SESAME              55     1.0
    SUNFLOWER           55     1.0
    SOYABEAN            55     0.5
    LINSEED
    COLZA
    COTTON              55     0.5
    TOBACCO             55     1.0
    SUGARBEET           55     0.3
    PISTACHIO           55     1.0
    HAZELNUT
    TAB-OLIVE           82     1.0
    OIL-OLIVE           82     1.0
    TEA
```

```
     TAB-GRAPE            82     0.8
     WINE-GRAPE           82     0.8
     SULTANA              82     0.8
     FRE-FIGS             82     1.0
     DRY-FIGS             82     1.0
     ORANGE
     LEMON
     APPLE                82     1.0
     PEARS                82     1.0
     FRE-PEACH            82     1.0
     PRO-PEACH            82     1.0
     APRICOT              82     1.0
     CHERRY               82     1.0
     WILDCHERRY           82     1.0
     POMEGRAN             82     0.8
;

FREE VARIABLE  TRNQTG1
;

EQUATIONS  TRANSTG1
           BOUND1
           BOUND2
           SURPLUS1
;

TRANSTG1(O)$(CSTR(O,"CCTRAN") NE 0.0)..
                TPRROT(O)-0.85*(TPRGAP(O)+TPRROT(O)-EXPORT(O))
                =E=TRNQTG1(O)                    ;

BOUND1(O)$(CSTR(O,"CCTRAN") GT 5.0)..
                TPRROT(O) =G= 0.85*(TPRGAP(O)+TPRROT(O)-EXPORT(O));
BOUND2(O)$(CSTR(O,"CCTRAN") LT -5.0)..
                TPRROT(O) =L= 0.85*(TPRGAP(O)+TPRROT(O)-EXPORT(O));

  SURPLUS1..     SUM(O, ALPHA10(O) * TOTALCONS(O) + 0.5 * BETA10(O)
                * TOTALCONS(O) ** 2)
                + SUM(O, EXPORT(O)*(TRADE(O,"EXP-P")*
                  TRADE(O,"PFACT10")))
                - SUM(O, IMPORT(O)*(TRADE(O,"IMP-P")*
                  TRADE(O,"PFACT10")))
                - SUM(E, PRCOST(E))
*                - SUM(OAL$(CSTR(OAL,"CCTRAN") NE 0.0), TRNQGT(OAL)
*                  *MACRO("REGC")*PAR(OAL,"CTRAN"))
                - SUM(O$(CSTR(O,"CCTRAN") NE 0.0), TRNQTG1(O)
                  *CSTR(O,"REGC")*CSTR(O,"CCTRAN"))
                + 0.37*(SUM(J, Q("ANIMAL",J)*PRODUCT(J)))
                - 0.5 * SUM(LM,PQPLT(LM) * LATRUSE(LM) ** 2 )
                - 0.5*SUM(LG, PQPLG*LATRUSEG(LG)**2)
                - 0.5*SUM(MG, PQPTG*LATRUSEG(MG)**2)
                - 0.5 * SUM(OCR,PAR(OCR,"PQP1")* TOTALPROD(OCR)**2)
                - 0.5 * SUM(J, RES(J,"PQP3")* PRODUCT(J)**2)
                =E=    PROFIT                                    ;


 OPTION       LIMROW  =     0     ;
 OPTION       LIMCOL  =     0     ;
 OPTION       ITERLIM =  40000    ;
 OPTION      RESLIM = 40000  ;
 MODEL TGAPT1 / LAND,LABTRAC,PURCFERT,PRODCOST,
              FEEDSTRAW,FEEDCON,FEEDCERI,FEEDPAST,FEEDOIL,FEEDFODD,
              TOTALFEED,MINFEED,MINGRCOIL,MINGROIL,MINGRAIN,
              CERBAL,FALBAL,SURPLUS1,ANIMALINV,
              LANDDG,LANDIG,LABTRACG,WATERPK,WATERNPK,WATERTOT,
              FRUUL1,FRUUL2,FRUUL3,FRUUL4,FRUUL5,FRUUL6,FRUUL7,RFRLOL,
              GVEGLI,CEVAROT,
              GVEGLI2,CCEREA,CPULSE,CSUNFL,CSOYBE,CGROUN,CCOTTO,
```

```
                CSUGAR,CPOTAT,CONION,CMELON,
                TPRODROT,TPRODGAP,PRODUCTION,COMBAL,TRANSTG1,BOUND1,BOUND2 /;

SOLVE       TGAPT1      MAXIMIZING PROFIT  USING NLP     ;
```

APPENDIX E:

DATA BASE FOR TURGAP

LEGEND FOR THE TABLES PRESENTING THE MODEL DATA

I. CROPS

CODE(a)	CROP	OUTPUT	SEED(b)	BY-PRODUCT	NOTES(d)
CEREALS					
BR1I	BARLEY	BARLEY	S-BARLEY	F-BARLEY	
BR2I	BARLEY	BARLEY	S-BARLEY	F-BARLEY	
BRLD	BARLEY	BARLEY	S-BARLEY	F-BARLEY	
CG1I	CORN-GRAIN	CORN	S-CORN	F-CORN	
CG2I	CORN-GRAIN	CORN	S-CORN	F-CORN	
CG3I	CORN-GRAIN	CORN	S-CORN	F-CORN	
CW1I	COMMON-WHEAT	COMWHEAT	S-COMWHEA	F-COMWHEAT	
CW2I	COMMON-WHEAT	COMWHEAT	S-COMWHEA	F-COMWHEAT	ONLY NG
CW3I	COMMON-WHEAT	COMWHEAT	S-COMWHEA	F-COMWHEAT	ONLY SG
CWHD	COMMON-WHEAT	COMWHEAT	S-COMWHEA	F-COMWHEAT	
DW1I	DURUM-WHEAT	DURWHEAT	S-DURWHEA	F-DURWHEAT	
DW2I	DURUM-WHEAT	DURWHEAT	S-DURWHEA	F-DURWHEAT	ONLY NG
DW3I	DURUM-WHEAT	DURWHEAT	S-DURWHEA	F-DURWHEAT	ONLY SG
DWHD	DURUM-WHEAT	DURWHEAT	S-DURWHEA	F-DURWHEAT	
RICI	RICE	RICE	S-RICE		ONLY LC1
RYED	RYE	RYE	S-RYE	F-RYE	
PULSES					
CH1I	CHICKPEA	CHICK-PEA	S-CHICKPEA	F-PULSES	
CH2I	CHICKPEA	CHICK-PEA	S-CHICKPEA	F-PULSES	
CH3I	CHICKPEA	CHICK-PEA	S-CHICKPEA	F-PULSES	
CHCD	CHICKPEA	CHICK-PEA	S-CHICKPEA	F-PULSES	
DBNI	DRYBEAN	DRY-BEAN	S-DRYBEAN	F-PULSES	ONLY NG
LNTD	LENTIL	LENTIL	S-LENTIL	F-PULSES	
LNTI	LENTIL	LENTIL	S-LENTIL	F-PULSES	
OILSEEDS					
GN1I	GROUNDNUT	GROUNDNUT	S-GRUNDNUT		
GN2I	GROUNDNUT	GROUNDNUT	S-GRUNDNUT		
SB1I	SOYABEAN	SOYABEAN	S-SOYABEAN		
SB2I	SOYABEAN	SOYABEAN	S-SOYABEAN		
SB3I	SOYABEAN	SOYABEAN	S-SOYABEAN		
SESD	SESAME	SESAME	S-SESAME		
SN1I	SUNFLOWER	SUNFLOWER	S-SUNFLWER		
SN2I	SUNFLOWER	SUNFLOWER	S-SUNFLWER		
SN3I	SUNFLOWER	SUNFLOWER	S-SUNFLWER		ONLY SG
SNFD	SUNFLOWER	SUNFLOWER	S-SUNFLWER		
INDUSTRIAL CROPS					
CT1I	COTTON	COTTON	S-COTTON		ONLY LC1 & LC2
CT2I	COTTON	COTTON	S-COTTON		ONLY SG; LC1 & LC2
CT3I	COTTON	COTTON	S-COTTON		ONLY SG; LC1 & LC2
SBTI	SUGARBEET	SUGARBEET	S-SUGRBEET		
TOBD	TOBACCO	TOBACCO	S-TOBACCO		
TUBER CROP					
PTEI	EARLY-POTATO	EARLY-POT	S-POTATO		
PTLI	LATE-POTATO	POTATO	S-POTATO		
ON1I	ONION-WINTER	ONION	S-ONION		
ON2I	ONION-WINTER	ONION	S-ONION		
ON3I	ONION-WINTER	ONION	S-ONION		
ONSI	ONION-SPRING	ONION	S-ONION		

LEGEND FOR THE TABLES PRESENTING THE MODEL DATA

I. CROPS

CODE(a)	CROP	OUTPUT	SEED(b)	BY-PRODUCT	NOTES(d)
VEGETABLES					
CASI	CARROT-SPRING	CARROT	S-CARROT		
CAWI	CARROT-WINTER	CARROT	S-CARROT		
CB1I	CABBAGE	CABBAGE	S-CABBAGE		
CB2I	CABBAGE	CABBAGE	S-CABBAGE		
CB3I	CABBAGE	CABBAGE	S-CABBAGE		
CC1I	CUCUMBER	CUCUMBER	S-CUCUMBER		
CC2I	CUCUMBER	CUCUMBER	S-CUCUMBER		
CLFI	CAULIFLOWER	CAULIFLOWR	S-CAULIFLW		
CTOI	CON-TOMATO	CON-TOMATO	S-CONTOMAT		
FTOI	FRESH-TOMATO	FRE-TOMATO	S-FRETOMAT		
EG1I	EGGPLANT	AUBERGINE	S-AUBERGIN		
EG2I	EGGPLANT	AUBERGINE	S-AUBERGIN		
LEKI	LEEK	LEEK	S-LEEK		
LT1I	LETTUCE	LETTUCE	S-LETTUCE		
LT2I	LETTUCE	LETTUCE	S-LETTUCE		
LT3I	LETTUCE	LETTUCE	S-LETTUCE		
MELD	MELON	MELON	S-MELON		
MELI	MELON	MELON	S-MELON		
OKRI	OKRA	OKRA	S-OKRA		
PP1I	PEPPER	PEPPER	S-PEPPER		
PP2I	PEPPER	PEPPER	S-PEPPER		
SP1I	SPINACH-WINTER	SPINACH	S-SPINACH		
SP2I	SPINACH-WINTER	SPINACH	S-SPINACH		
SP3I	SPINACH-WINTER	SPINACH	S-SPINACH		
SPSI	SPINACH-SPRING	SPINACH	S-SPINACH		
SQAI	SQUASH	SQUASH	S-SQUASH		
WMLD	WATER-MELON	WAT-MELON	S-WATMELON		
WMLI	WATER-MELON	WAT-MELON	S-WATMELON		
FEED CROPS					
ALFI	ALFALFA	ALFALFA	S-ALFALFA		
CS1I	CORN-SILAGE	CORN-SIL	S-CORN		
CS2I	CORN-SILAGE	CORN-SIL	S-CORN		
CS3I	CORN-SILAGE	CORN-SIL	S-CORN		
SG1I	SORGHUM-GRAIN	SORGHUM	S-SORGHUM		
SG2I	SORGHUM-GRAIN	SORGHUM	S-SORGHUM		
SG3I	SORGHUM-GRAIN	SORGHUM	S-SORGHUM		
SS1I	SORGHUM-SILAG	SORGHUM-SIL	S-SORGHUM		
SS2I	SORGHUM-SILAG	SORGHUM-SIL	S-SORGHUM		
SS3I	SORGHUM-SILAG	SORGHUM-SIL	S-SORGHUM		
VCFD	VETCH-FODDER	VETCH-FOD	S-VETCH		
VCGD	VETCH-GRAIN	VETCH-FOD	S-VETCH	F-VETCHG	
PERENNIALS					
APPI	APPLE	APPLE			ONLY NG
APRI	APRICOT	APRICOT			
CRRI	CHERRY	CHERRY			
FGDI	DRY-FIG	DRY-FIGS			
FGFI	FRESH-FIG	FRE-FIGS			
GRSI	RAISIN	SULTANA			
GRTD	TABLE-GRAPE	TAB-GRAPE			ONLY NG & HR
GRTI	TABLE-GRAPE	TAB-GRAPE			
GRWD	WINE-GRAPE	WINE-GRAPE			ONLY HR & MR
OLOD	OIL-OLIVE	OIL-OLIVE			ONLY NG & HR

LEGEND FOR THE TABLES PRESENTING THE MODEL DATA

I. CROPS

CODE(a)	CROP	OUTPUT	SEED(b)	BY-PRODUCT	NOTES(d)
OLTD	TABLE-OLIVE	TAB-OLIVE			ONLY NG & HR
PARI	PEAR	PEARS			ONLY NG
PCFI	FRESH-PEACH	FRE-PEACH			ONLY SG
PCPI	PROCESSED-PEA	PRO-PEACH			ONLY SG
PISD	PISTACHIO	PISTACHIO			
POMI	POMEGRANATE	POMEGRAN			
WCRI	WILDCHERRY				
ADDITIONAL CROPS FOR THE REST OF TURKEY					
	COLZA	COLZA	S-COLZA		ROT
	HAZELNUT				ROT
	LEMON				ROT
	LINSEED	LINSEED	S-LINSEED		ROT
	ORANGE				ROT
	TEA				ROT
LIVESTOCK					
		SHEEP-MEAT			
		SHEEP-MILK			
		SHEEP-WOOL			
		SHEEP-HIDE			
		GOAT-MEET			
		GOAT-MILK			
		GOAT-WOOL			
		GOAT-HIDE			
		ANGOR-MEET			
		ANGOR-MILK			
		ANGOR-WOOL			
		ANGOR-HIDE			
		COW-MEET			
		COW-MILK			
		COW-HIDE			
		BUFAL-MEAT			
		BUFAL-MILK			
		BUFAL-HIDE			
		POLTR-MEAT			
		EGGS			

(a) "I" at the end of crop codes stands for "irrigated", "D" for "dry".
The numbers in the crop codes (1, 2 and 3) stand for alternative seeding and harvesting dates.
(b) "S" stands for seed.
(c) "F" stands for "fodder".
(d) NG: North GAP
SG: South GAP
HR: High Rainfall
MR: Medium Rainfall
LCi: i'th Land Class
ROT: Rest of Turkey

II. PROJECT REGIONS(e)

NG	:	North GAP
SG	:	South GAP
N01	:	Siverek-Hilvan
N2A	:	Adiyaman-Kahta
N2B	:	Adiyaman-Goksu-Araban
N03	:	Dicle
N4A	:	Garzan
N4B	:	Batman
N4C	:	Batman-Silvan
NOP	:	Non-Project Region
S05	:	Urfa-Harran
S06	:	Mardin-Ceylanpinar
S07	:	Bozova
S08	:	Suruc-Baziki
S09	:	Gaziantep
S10	:	Nusaybin-Cizre-Idil
S11	:	Silopi
N00	:	All project regions in North GAP
S00	:	All project regions in South GAP
000	:	All project regions (North & South)

(e) applies to irrigated crops

III. RAINFALL(f)

HR	:	High Rainfall (only in North GAP)
MR	:	Medium Rainfall (North GAP & South GAP)
LR	:	Low Rainfall (only in South GAP)
00	:	All rainfall regions in both North and South GAP
MR.0	:	Data valid in medium rainfall region for both North & South GAP

(f) applies to dry crops

IV. LAND CLASS

LC1	:	Land Class 1
LC2	:	Land Class 2
LC3	:	Land Class 3
LC4	:	Land Class 4
LC0	:	All land classes

SEEDING AND HARVESTING DATES FOR THE CROPS IN THE MODEL

CODE(a)	CROP	NORTH GAP(b) S.D.	NORTH GAP(b) H.D	SOUTH GAP S.D.	SOUTH GAP H.D.
CEREALS					
BR1I	BARLEY	O7.11	15.06	20.11	27.05
BR2I	BARLEY	23.10	05.06	26.10	15.05
BRLD	BARLEY	07.11	30.05	10.11	12.05
CG1I	CORN-GRAIN	01.07	30.10	01.07	11.10
CG2I	CORN-GRAIN	01.04	13.08	15.03	01.08
CG3I	CORN-GRAIN	15.05	07.09	01.05	22.08
CW1I	COMMON-WHEA	07.11	24.06	10.11	10.06
CW2I	COMMON-WHEA	23.10	15.06	-	-
CW3I	COMMON-WHEA	-	-	26.10	01.06
CWHD	COMMON-WHEA	07.11	15.06	10.11	27.05
DW1I	DURUM-WHEAT	07.11	24.06	10.11	10.06
DW2I	DURUM-WHEAT	23.10	15.06	-	-
DW3I	DURUM-WHEAT	-	-	26.10	01.06
DWHD	DURUM-WHEAT	07.11	15.06	10.11	27.05
RICI	RICE	20.05	10.10	01.05	10.09
RYED	RYE				
PULSES					
CH1I	CHICKPEA	15.11	05.07	20.11	12.06
CH2I	CHICKPEA	01.11	28.06	05.11	05.06
CH3I	CHICKPEA	30.11	13.07	05.12	18.06
CHCD	CHICKPEA	15.11	15.06	20.11	28.05
DBNI	DRYBEAN	05.04	12.07	-	-
LNTD	LENTIL	03.11	19.05	15.11	10.05
LNTI	LENTIL	03.11	11.06	15.11	24.05
OILSEEDS					
GN1I	GROUNDNUT	01.04	20.08	20.06	20.10
GN2I	GROUNDNUT	15.05	20.09	01.05	28.08
SB1I	SOYABEAN	01.07	30.10	01.07	11.10
SB2I	SOYABEAN	01.04	13.08	15.03	01.08
SB3I	SOYABEAN	15.05	07.09	01.05	22.08
SESD	SESAME	01.04	20.08	15.03	04.08
SN1I	SUNFLOWER	01.04	15.09	19.03	26.08
SN2I	SUNFLOWER	16.04	22.09	01.04	03.09
SN3I	SUNFLOWER	-	-	16.04	09.09
SNFD	SUNFLOWER	01.04	20.08	15.03	04.08
INDUSTRIA CROPS					
CT1I	COTTON	25.04	30.10	10.04	24.09
CT2I	COTTON	-	-	22.04	05.10
CT3I	COTTON	-	-	06.05	17.10
SBTI	SUGARBEET	01.04	10.10	15.03	10.09
TOBD	TOBACCO	25.04	15.09	15.04	01.09
TUBER CR					
PTEI	EARLY-POTATO	23.03	15.06	15.03	03.06
PTLI	LATE-POTATO	23.03	15.07	15.03	03.07
ON1I	ONION-WINTER	09.09	18.07	19.09	23.06
ON2I	ONION-WINTER	24.08	03.07	04.09	06.06
ON3I	ONION-WINTER	24.09	30.07	04.10	05.07

SEEDING AND HARVESTING DATES FOR THE CROPS IN THE MODEL

CODE(a)	CROP	NORTH GAP(b) S.D.	NORTH GAP(b) H.D	SOUTH GAP S.D.	SOUTH GAP H.D.
ONSI	ONION-SPRING	15.03	12.08	06.03	22.07
VEGETABL					
CASI	CARROT-SPRIN	17.03	20.07	07.03	03.07
CAWI	CARROT-WINTE	09.09	03.05	19.09	20.04
CB1I	CABBAGE	15.08	25.02	23.08	07.01
CB2I	CABBAGE	01.08	01.12	08.08	15.11
CB3I	CABBAGE	01.09	15.04	08.09	10.03
CC1I	CUCUMBER	05.05	23.09	15.04	26.08
CC2I	CUCUMBER	20.05	06.10	01.05	05.09
CLFI	CAULIFLOWER	15.07	02.01	26.07	17.12
CTOI	CON-TOMATO				
FTOI	FRESH-TOMATO				
EG1I	EGGPLANT	01.04	17.10	15.03	04.10
EG2I	EGGPLANT	15.04	30.10	01.04	12.10
LEKI	LEEK	15.07	06.12	25.07	04.12
LT1I	LETTUCE	15.10	15.04	01.11	05.04
LT2I	LETTUCE	01.10	23.03	15.10	14.03
LT3I	LETTUCE	01.11	01.05	15.11	18.04
MELD	MELON	03.05	26.08	13.04	09.08
MELI	MELON	03.05	12.09	13.04	25.08
OKRI	OKRA	05.05	20.12	15.04	22.10
PP1I	PEPPER	05.05	03.11	20.04	01.10
PP2I	PEPPER	20.05	25.11	05.05	25.10
SP1I	SPINACH-WINTE	20.09	16.12	03.10	04.12
SP2I	SPINACH-WINTE	05.09	19.10	18.09	04.11
SP3I	SPINACH-WINTE	05.10	18.02	18.10	10.01
SPSI	SPINACH-SPRIN	17.03	20.05	07.03	26.04
SQAI	SQUASH	05.05	10.08	15.04	20.07
WMLD	WATER-MELON	01.05	05.08	18.04	22.07
WMLI	WATER-MELON	01.05	22.08	18.04	08.08
FEED CROP					
ALFI	ALFALFA	23.02		01.02	
CS1I	CORN-SILAGE	01.07	17.10	01.07	04.10
CS2I	CORN-SILAGE	01.04	07.08	15.03	24.07
CS3I	CORN-SILAGE	15.05	30.08	01.05	15.08
SG1I	SORGHUM-GRAI	01.07	10.12	01.07	01.11
SG2I	SORGHUM-GRAI	01.04	26.08	15.03	13.08
SG3I	SORGHUM-GRAI	15.05	24.09	01.05	04.09
SS1I	SORGHUM-SILA	01.07	17.10	01.07	10.10
SS2I	SORGHUM-SILA	01.04	07.08	15.03	01.08
SS3I	SORGHUM-SILA	15.05	30.08	01.05	22.08
VCFD	VETCH-FODDER	23.02	23.05	01.02	05.05
VCGD	VETCH-GRAIN	23.02	05.07	01.02	17.06

(a) The numbers in the crop codes (1,2 and 3) stand for alternative seeding and harvesting dates.
(b) S.D. : Seeding Date
H.D. : Harvesting Date

APPENDIX E 1:

MONTHLY LAND COEFFICIENTS

MONTHLY LAND COEFFICIENTS

(Monthly Utilization Rate/ha)

	TG01	TG02	TG03	TG04	TG05	TG06	TG07	TG08	TG09	TG10	TG11	TG12
ALFI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
BR1I.C11.LC0.N00	1	1	1	1	1	0.51					1	1
BR1I.C11.LC0.S00	1	1	1	1	1						1	1
BR2I.C11.LC0.N00	1	1	1	1	1	0.26				0.49	1	1
BR2I.C11.LC0.S00	1	1	1	1	0.76					0.49	1	1
BRLD.C11.LC0.000	1	1	1	1	1						1	1
CASI.C11.LC0.N00			0.74	1	1	1	0.76					
CASI.C11.LC0.S00		0.24	1	1	1	1						
CAWI.C11.LC0.N00	1	1	1	0.26					1	1	1	1
CAWI.C11.LC0.S00	1	1	1	0.76					0.49	1	1	1
CB1I.C11.LC0.N00	1	0.75						0.74	1	1	1	1
CB1I.C11.LC0.S00	0.26							0.24	1	1	1	1
CB2I.C11.LC0.N00							0.24	1	1	1	1	0.26
CB2I.C11.LC0.S00								1	1	1	0.76	
CB3I.C11.LC0.N00	1	1	1	0.76				0.24	1	1	1	1
CB3I.C11.LC0.S00	1	1	1	0.51					1	1	1	1
CC1I.C11.LC0.N00					1	1	1	1	0.76			
CC1I.C11.LC0.S00				0.74	1	1	1	0.76				
CC2I.C11.LC0.N00					0.74	1	1	1	1	0.26		
CC2I.C11.LC0.S00				0.24	1	1	1	1	0.26			
CG1I.C11.LC0.N00						0.24	1	1	1	0.76		
CG1I.C11.LC0.S00							1	1	1	0.51		
CG2I.C11.LC0.N00			0.24	1	1	1	1	0.51				
CG2I.C11.LC0.S00			1	1	1	1	1	0.26				
CG3I.C11.LC0.N00					1	1	1	1	0.26			
CG3I.C11.LC0.S00				0.24	1	1	1	1				
CH1I.C11.LC0.N00	1	1	1	1	1	1	0.26				0.74	1
CH1I.C11.LC0.S00	1	1	1	1	1	0.51					0.49	1
CH2I.C11.LC0.N00	1	1	1	1	1	1				0.24	1	1
CH2I.C11.LC0.S00	1	1	1	1	1	0.26				0.24	1	1
CH3I.C11.LC0.N00	1	1	1	1	1	1	0.51				0.49	1
CH3I.C11.LC0.S00	1	1	1	1	1	0.76					0.24	1
CHCD.C11.LC0.N00	1	1	1	1	1	0.51					0.74	1
CHCD.C11.LC0.S00	1	1	1	1	1						0.49	1
CLFI.C11.LC0.N00						0.49	1	1	1	1	1	1
CLFI.C11.LC0.S00						0.24	1	1	1	1	1	0.51
CS1I.C11.LC0.N00						0.24	1	1	1	0.51		
CS1I.C11.LC0.S00						0.24	1	1	1	0.26		
CS2I.C11.LC0.N00			0.24	1	1	1	1	0.26				
CS2I.C11.LC0.S00			0.74	1	1	1	0.76					
CS3I.C11.LC0.N00					0.74	1	1	1				
CS3I.C11.LC0.S00				0.24	1	1	1	0.51				
CT1I.C11.LC0.N00				0.49	1	1	1	1	1	1		
CT1I.C11.LC0.S00				1	1	1	1	1	0.76			
CT2I.C11.LC0.S00				0.74	1	1	1	1	1	0.26		
CT3I.C11.LC0.S00					1	1	1	1	1	0.76		
CTOI.C11.LC0.N00			0.24	1	1	1	1	1	1	0.51		
CTOI.C11.LC0.S00			0.74	1	1	1	1	1	1	0.26		

MONTHLY LAND COEFFICIENTS

(Monthly Utilization Rate/ha)

	TG01	TG02	TG03	TG04	TG05	TG06	TG07	TG08	TG09	TG10	TG11	TG12
CW1I.C11.LC0.N00	1	1	1	1	1	1					1	1
CW1I.C11.LC0.S00	1	1	1	1	1	0.51					1	1
CW2I.C11.LC0.N00	1	1	1	1	1	0.76				0.24	1	1
CW3I.C11.LC0.S00	1	1	1	1	1	0.26				0.24	1	1
CWHD.C11.LC0.N00	1	1	1	1	1	0.51				0.24	1	1
CWHD.C11.LC0.S00	1	1	1	1	1	0.51				0.24	1	1
DBNI.C11.LC0.N00			0.24	1	1	1	0.51					
DW1I.C11.LC0.N00	1	1	1	1	1	1					1	1
DW1I.C11.LC0.S00	1	1	1	1	1	0.51					1	1
DW2I.C11.LC0.N00	1	1	1	1	1	0.76				0.24	1	1
DW3I.C11.LC0.S00	1	1	1	1	1	0.26				0.24	1	1
DWHD.C11.LC0.N00	1	1	1	1	1	0.51				0.24	1	1
DWHD.C11.LC0.S00	1	1	1	1	1	0.26				0.24	1	1
EG1I.C11.LC0.N00			0.24	1	1	1	1	1	1	0.51		
EG1I.C11.LC0.S00			0.74	1	1	1	1	1	1	0.26		
EG2I.C11.LC0.N00				0.74	1	1	1	1	1	0.26		
EG2I.C11.LC0.S00			0.24	1	1	1	1	1	0.51			
FTOI.C11.LC0.N00			0.24	1	1	1	1	1	1	0.51		
FTOI.C11.LC0.S00			0.74	1	1	1	1	1	1	0.26		
GN1I.C11.LC0.N00			0.24	1	1	1	1	0.76				
GN1I.C11.LC0.S00						0.49	1	1	1	0.76		
GN2I.C11.LC0.N00					0.49	1	1	1	0.76			
GN2I.C11.LC0.S00				0.24	1	1	1	1				
LEKI.C11.LC0.N00							0.74	1	1	1	1	0.26
LEKI.C11.LC0.S00							0.49	1	1	1	1	0.26
LNTD.C11.LC0.N00	1	1	1	1	0.76					0.24	1	1
LNTD.C11.LC0.S00	1	1	1	1	0.26						0.74	1
LNTI.C11.LC0.N00	1	1	1	1	1	0.26				0.24	1	1
LNTI.C11.LC0.S00	1	1	1	1	0.76						0.74	1
LT1I.C11.LC0.N00	1	1	1	0.51						0.74	1	1
LT1I.C11.LC0.S00	1	1	1	0.26						0.24	1	1
LT2I.C11.LC0.N00	1	1	1						0.24	1	1	1
LT2I.C11.LC0.S00	1	1	0.51							0.74	1	1
LT3I.C11.LC0.N00	1	1	1	1	0.26					0.24	1	1
LT3I.C11.LC0.S00	1	1	1	0.76							1	1
MELD.C11.LC0.N00				0.24	1	1	1	1	0.26			
MELD.C11.LC0.S00				0.74	1	1	1	0.76				
MELI.C11.LC0.N00				0.24	1	1	1	1	0.51			
MELI.C11.LC0.S00				0.74	1	1	1	0.76				
OKRI.C11.LC0.S00			0.24	1	1	1	1	1	1	0.76		
ON1I.C11.LC0.N00	1	1	1	1	1	1	1	0.49	1	1	1	1
ON1I.C11.LC0.S00	1	1	1	1	1	0.76			0.51	1	1	1
ON2I.C11.LC0.N00	1	1	1	1	1	1	0.26	0.49	1	1	1	1
ON2I.C11.LC0.S00	1	1	1	1	1	0.26		0.24	1	1	1	1
ON3I.C11.LC0.N00	1	1	1	1	1	1	1		0.49	1	1	1
ON3I.C11.LC0.S00	1	1	1	1	1	1	0.26		0.24	1	1	1
ONSI.C11.LC0.N00			0.74	1	1	1	1	0.51				
ONSI.C11.LC0.S00		0.24	1	1	1	1	0.76					

MONTHLY LAND COEFFICIENTS

(Monthly Utilization Rate/ha)

	TG01	TG02	TG03	TG04	TG05	TG06	TG07	TG08	TG09	TG10	TG11	TG12
PP1I.C11.LC0.N00					1	1	1	1	1	1	0.26	
PP1I.C11.LC0.S00				0.49	1	1	1	1	1	0.26		
PP2I.C11.LC0.N00					0.74	1	1	1	1	1	1	
PP2I.C11.LC0.S00				0.24	1	1	1	1	1	1		
PTEI.C11.LC0.N00			0.49	1	1	1	0.51					
PTEI.C11.LC0.S00			0.74	1	1	1	0.26					
PTLI.C11.LC0.N00			0.49	1	1	1	1	0.26				
PTLI.C11.LC0.S00			0.74	1	1	1	0.76					
RICI.C11.LC0.N00					0.49	1	1	1	1	0.26		
RICI.C11.LC0.S00				0.24	1	1	1	1	0.26			
RYED.C11.LC0.000	1	1	1	1	1	1	1				1	1
SB1I.C11.LC0.N00						0.24	1	1	1	0.76		
SB1I.C11.LC0.S00						0.24	1	1	1	0.51		
SB2I.C11.LC0.N00			0.24	1	1	1	1	0.51				
SB2I.C11.LC0.S00			0.74	1	1	1	1	0.26				
SB3I.C11.LC0.N00					0.74	1	1	1	0.26			
SB3I.C11.LC0.S00				0.24	1	1	1	0.76				
SBTI.C11.LC0.N00			0.24	1	1	1	1	1	1	0.26		
SBTI.C11.LC0.S00			0.74	1	1	1	1	1	0.26			
SESD.C11.LC0.N00			0.24	1	1	1	1	0.76				
SESD.C11.LC0.S00			0.74	1	1	1	1	0.26				
SG1I.C11.LC0.N00						0.24	1	1	1	1	1	0.26
SG1I.C11.LC0.S00						0.24	1	1	1	1	0.26	
SG2I.C11.LC0.N00			0.24	1	1	1	1	1				
SG2I.C11.LC0.S00			0.74	1	1	1	1	0.51				
SG3I.C11.LC0.N00					0.74	1	1	1	1			
SG3I.C11.LC0.S00				0.24	1	1	1	1	0.26			
SN1I.C11.LC0.N00			0.24	1	1	1	1	1	0.51			
SN1I.C11.LC0.S00			0.74	1	1	1	1	0.76				
SN2I.C11.LC0.N00				0.74	1	1	1	1	1			
SN2I.C11.LC0.S00			0.24	1	1	1	1	1	0.26			
SN3I.C11.LC0.S00				0.74	1	1	1	1	0.51			
SNFD.C11.LC0.N00			0.24	1	1	1	1	1	0.51			
SNFD.C11.LC0.S00			0.74	1	1	1	1	0.26				
SP1I.C11.LC0.N00									0.49	1	1	0.51
SP1I.C11.LC0.S00									0.24	1	1	0.26
SP2I.C11.LC0.N00								0.24	1	0.76		
SP2I.C11.LC0.S00									0.74	1	0.26	
SP3I.C11.LC0.N00	1	0.76							0.24	1	1	1
SP3I.C11.LC0.S00	0.51									0.74	1	1
SPSI.C11.LC0.N00			0.49	1	0.76							
SPSI.C11.LC0.S00			1	0.76								
SQAI.C11.LC0.N00				0.24	1	1	1	0.26				
SQAI.C11.LC0.S00				0.74	1	1	0.76					
SS1I.C11.LC0.N00						0.24	1	1	1	0.51		
SS1I.C11.LC0.S00						0.24	1	1	1	0.26		
SS2I.C11.LC0.N00			0.24	1	1	1	1	0.26				
SS2I.C11.LC0.S00			0.74	1	1	1	1	0.26				

MONTHLY LAND COEFFICIENTS

(Monthly Utilization Rate/ha)

	TG01	TG02	TG03	TG04	TG05	TG06	TG07	TG08	TG09	TG10	TG11	TG12
SS3I.C11.LC0.N00					0.74	1	1	1				
SS3I.C11.LC0.S00				0.24	1	1	1	1				
TOBD.C11.LC2.N00				0.49	1	1	1	1	0.51			
TOBD.C11.LC2.S00				0.74	1	1	1	1	0.26			
VCFD.C11.LC0.N00		0.49	1	1	0.76							
VCFD.C11.LC0.S00		1	1	1	0.26							
VCGD.C11.LC0.N00		0.49	1	1	1	1	0.26					
VCGD.C11.LC0.S00	0.24	1	1	1	1	0.51						
WMLD.C11.LC0.N00				0.24	1	1	1	0.26				
WMLD.C11.LC0.S00				0.49	1	1	1	0.26				
WMLI.C11.LC0.N00				0.24	1	1	1	0.76				
WMLI.C11.LC0.S00				0.49	1	1	1	0.26				
APPI.C11.LC0.N00	1	1	1	1	1	1	1	1	1	1	1	1
APRI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
CRRI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
FGDI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
FGFI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
GRSI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
GRTD.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
GRTI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
GRWD.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
OLOD.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
OLTD.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
PARI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
PCFI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
PCPI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
PISD.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
POMI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1
WCRI.C11.LC0.000	1	1	1	1	1	1	1	1	1	1	1	1

APPENDIX E 2:

MONTHLY LABOUR COEFFICIENTS

(HRS PER DECAR)

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
ALFI.C11.LC1.N00		0.77		5.36	4.50	7.50	10.50	10.50	4.50	1.50	0.86	
ALFI.C11.LC1.S00		0.77		5.36	4.50	7.50	10.50	10.50	4.77	4.50	0.86	
ALFI.C11.LC2.N00		0.84		5.71	4.77	7.77	11.04	11.04	4.77	1.50	0.94	
ALFI.C11.LC2.S00		0.84		5.71	4.77	7.77	11.04	11.04	4.77	4.77	0.94	
ALFI.C11.LC3.N00		0.91		6.05	5.04	8.04	11.58	11.58	5.04	1.50	1.01	
ALFI.C11.LC3.S00		0.91		6.05	5.04	8.04	11.58	11.58	5.04	4.77	1.01	
BR1I.C11.LC1.N00		0.16	1.00	1.00	1.00	1.26					0.60	
BR1I.C11.LC1.S00		1.15	1.00	1.00	1.26						0.60	
BR1I.C11.LC2.N00		0.17	1.00	1.00	1.00	1.29					0.65	
BR1I.C11.LC2.S00		1.17	1.00	1.00	1.29						0.65	
BR1I.C11.LC3.N00		0.19	1.00	1.00	1.00	1.31					0.70	
BR1I.C11.LC3.S00		1.18	1.00	1.00	1.31						0.70	
BR2I.C11.LC1.N00		0.16	1.00	1.00	1.00	1.26				1.77		
BR2I.C11.LC1.S00		1.15	1.00	1.00	1.26					2.76		
BR2I.C11.LC2.N00		0.17	1.00	1.00	1.00	1.28				1.92		
BR2I.C11.LC2.S00		1.17	1.00	1.00	1.28					2.92		
BR2I.C11.LC3.N00		0.19	1.00	1.00	1.00	1.31				2.08		
BR2I.C11.LC3.S00		1.18	1.00	1.00	1.31					3.08		
BRLD.C11.LC1.000		0.24			0.37						2.47	
BRLD.C11.LC2.000		0.26			0.40						2.69	
BRLD.C11.LC3.000		0.28			0.44						2.91	
BRLD.C11.LC4.000		0.30			0.47						3.14	
CASI.C11.LC1.N00			13.00	12.66	11.50	4.50	18.00					
CASI.C11.LC1.S00		1.78	12.72	12.66	11.50	19.50	1.17					
CASI.C11.LC2.N00			14.17	13.66	12.40	4.50	19.35					
CASI.C11.LC2.S00		1.94	13.73	13.66	12.40	20.85	1.28					
CASI.C11.LC3.N00			15.34	14.67	13.30	4.50	20.70					
CASI.C11.LC3.S00		2.10	14.74	14.67	13.30	22.20	1.38					
CAWI.C11.LC1.N00		0.60	13.00	16.50	1.50				13.90	2.66	11.50	
CAWI.C11.LC1.S00		2.10	13.00	16.50					13.90	2.66	11.50	
CAWI.C11.LC2.N00		0.65	14.04	17.85	1.50				15.02	2.76	12.40	
CAWI.C11.LC2.S00		2.15	14.04	17.85					15.02	2.76	12.40	
CAWI.C11.LC3.N00		0.71	15.07	19.20	1.50				16.13	2.87	13.30	
CAWI.C11.LC3.S00		2.21	15.07	19.20					16.13	2.87	13.30	
CB1I.C11.LC1.N00		25.00						15.40	2.10	2.10	1.50	
CB1I.C11.LC1.S00	25.00							13.90	2.66	2.10	1.50	
CB1I.C11.LC2.N00		27.25						16.52	2.21	2.21	1.50	
CB1I.C11.LC2.S00	27.25							15.02	2.76	2.15	1.50	
CB1I.C11.LC3.N00		29.50						17.63	2.21	2.21	1.50	
CB1I.C11.LC3.S00	29.50							16.13	2.87	2.21	1.50	
CB2I.C11.LC1.N00								16.90	2.66	2.10	1.50	25.00
CB2I.C11.LC1.S00								16.90	2.66	2.10	27.50	
CB2I.C11.LC2.N00								18.02	2.76	2.15	1.50	27.25
CB2I.C11.LC2.S00								18.02	2.76	2.15	29.84	
CB2I.C11.LC3.N00								19.13	2.87	2.21	1.50	29.50
CB2I.C11.LC3.S00								19.13	2.87	2.21	32.18	
CB3I.C11.LC1.N00			26.50	1.50					13.90	2.66	2.10	
CB3I.C11.LC1.S00		1.50	26.50						13.90	2.66	2.10	
CB3I.C11.LC2.N00		28.75	1.50					15.02	2.76	2.15		
CB3I.C11.LC2.S00		1.50	28.75						15.02	2.76	2.15	
CB3I.C11.LC3.N00			31.00	1.50					16.13	2.87	2.21	
CB3I.C11.LC3.S00		1.50	31.00						16.13	2.87	2.21	
CC1I.C11.LC1.N00					24.32	6.66	23.10	22.50	19.50			
CC1I.C11.LC1.S00				13.16	2.10	33.10	33.10	21.00				
CC1I.C11.LC2.N00					26.35	6.85	24.77	24.12	21.12			
CC1I.C11.LC2.S00				14.21	2.15	35.67	35.67	22.62				
CC1I.C11.LC3.N00					28.43	7.05	26.45	25.74	22.74			

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
CC1I.C11.LC3.S00				15.26	2.21	38.25	38.25	24.24				
CC2I.C11.LC1.N00					24.32	15.66	23.10	22.50	1.50	19.50		
CC2I.C11.LC1.S00					14.32	33.66	33.10	4.50	19.50			
CC2I.C11.LC2.N00					26.37	16.66	24.77	24.12	1.50	21.12		
CC2I.C11.LC2.S00					15.47	36.28	35.67	4.50	21.12			
CC2I.C11.LC3.N00					28.43	17.67	26.45	25.74	1.50	22.74		
CC2I.C11.LC3.S00					16.63	38.91	38.25	4.50	22.74			
CG1I.C11.LC1.N00						0.44	11.59	20.04	0.99	12.93		
CG1I.C11.LC1.S00							11.59	20.04	0.99	12.93		
CG1I.C11.LC2.N00						0.48	12.36	21.58	0.99	14.00		
CG1I.C11.LC2.S00							12.36	21.58	0.99	14.00		
CG1I.C11.LC3.N00						0.52	13.13	23.11	0.99	15.07		
CG1I.C11.LC3.S00							13.13	23.11	0.99	15.07		
CG2I.C11.LC1.N00			0.44	9.60	18.06	2.98	2.98	13.92				
CG2I.C11.LC1.S00			10.04	18.06	0.99	2.98	2.98	12.93				
CG2I.C11.LC2.N00			0.48	10.37	19.59	2.98	2.98	14.99				
CG2I.C11.LC2.S00			10.86	19.59	0.99	2.98	2.98	14.00				
CG2I.C11.LC3.N00			0.52	11.15	21.13	2.98	2.98	16.07				
CG2I.C11.LC3.S00			11.67	21.13	0.99	2.98	2.98	15.07				
CG3I.C11.LC1.N00					9.60	20.04	2.98	2.98	12.93			
CG3I.C11.LC1.S00				0.44	9.60	20.04	2.98	14.91				
CG3I.C11.LC2.N00					10.37	21.58	2.98	2.98	14.00			
CG3I.C11.LC2.S00				0.48	10.37	21.58	2.98	15.99				
CG3I.C11.LC3.N00					11.15	23.11	2.98	2.98	15.07			
CG3I.C11.LC3.S00				0.52	11.15	23.11	2.98	17.06				
CH1I.C11.LC1.N00			1.74	1.50	1.50	4.50	13.00				1.17	
CH1I.C11.LC1.S00		1.50	1.74	1.50	1.50	13.00					1.17	
CH1I.C11.LC2.N00			1.76	1.50	1.50	4.50	14.04				1.28	
CH1I.C11.LC2.S00		1.50	1.76	1.50	1.50	14.04					1.28	
CH1I.C11.LC3.N00			1.78	1.50	1.50	4.50	15.07				1.38	
CH1I.C11.LC3.S00		1.50	1.78	1.50	1.50	15.07					1.38	
CH2I.C11.LC1.N00			1.74	1.50	1.50	16.00				1.50	2.67	
CH2I.C11.LC1.S00		1.50	1.74	1.50	1.50	13.00					2.67	
CH2I.C11.LC2.N00			1.76	1.50	1.50	17.04				1.50	2.78	
CH2I.C11.LC2.S00		1.50	1.76	1.50	1.50	14.04					2.78	
CH2I.C11.LC3.N00			1.78	1.50	1.50	18.07				1.50	2.88	
CH2I.C11.LC3.S00		1.50	1.78	1.50	1.50	15.07					2.88	
CH3I.C11.LC1.N00			1.74	1.50	1.50	4.50	14.50				1.17	
CH3I.C11.LC1.S00		1.50	1.74	1.50	1.50	16.00	3.00					1.17
CH3I.C11.LC2.N00			1.76	1.50	1.50	4.50	15.54				1.28	
CH3I.C11.LC2.S00		1.50	1.76	1.50	1.50	17.04	3.00					1.28
CH3I.C11.LC3.N00			1.78	1.50	1.50	4.50	16.57				1.38	
CH3I.C11.LC3.S00		1.50	1.78	1.50	1.50	18.07	3.00					1.38
CHCD.C11.LC1.NHR			0.24			10.00					1.17	
CHCD.C11.LC1.SLR			0.24		10.00						1.17	
CHCD.C11.LC2.NHR			0.26			10.90					1.28	
CHCD.C11.LC2.SLR			0.26		10.90						1.28	
CHCD.C11.LC3.NHR			0.28			11.80					1.38	
CHCD.C11.LC3.SLR			0.28		11.80						1.38	
CHCD.C11.LC4.NHR			0.30			12.70					1.49	
CHCD.C11.LC4.SLR			0.30		12.70						1.49	
CLFI.C11.LC1.N00						40.16	16.35	12.58	9.72	1.20	1.20	
CLFI.C11.LC1.S00						40.16	15.15	12.58	9.72	1.20	1.20	
CLFI.C11.LC2.N00						43.78	17.61	13.39	10.49	1.20	1.20	
CLFI.C11.LC2.S00						43.78	16.40	13.39	10.49	1.20	1.20	
CLFI.C11.LC3.N00						47.39	18.86	14.19	11.25	1.20	1.20	
CLFI.C11.LC3.S00						47.39	17.66	14.19	11.25	1.20	1.20	

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
CS1I.C11.LC1.N00						0.59	17.98	30.50	3.95	46.97		
CS1I.C11.LC1.S00						0.59	17.98	30.50	3.95	46.97		
CS1I.C11.LC2.N00						0.64	19.24	32.89	4.19	51.08		
CS1I.C11.LC2.S00						0.64	19.24	32.89	4.19	51.08		
CS1I.C11.LC3.N00						0.69	20.51	35.28	4.42	55.19		
CS1I.C11.LC3.S00						0.69	20.51	35.28	4.42	55.19		
CS2I.C11.LC1.N00			0.59	12.71	23.92	3.95	3.95	46.97				
CS2I.C11.LC1.S00			13.30	23.92	1.32	3.95	49.60					
CS2I.C11.LC2.N00			0.64	13.74	25.95	3.95	3.95	51.08				
CS2I.C11.LC2.S00			14.38	25.95	1.32	3.95	53.71					
CS2I.C11.LC3.N00			0.69	14.76	27.98	3.95	3.95	55.19				
CS2I.C11.LC3.S00			15.46	27.98	1.32	3.95	57.82					
CS3I.C11.LC1.N00				0.59	12.71	26.55	3.95	49.60	1.32			
CS3I.C11.LC1.S00				0.59	12.71	26.55	3.95	48.29				
CS3I.C11.LC2.N00				0.64	13.74	28.58	3.95	53.71	1.32			
CS3I.C11.LC2.S00				0.64	13.74	28.58	3.95	52.40				
CS3I.C11.LC3.N00				0.69	14.76	30.62	3.95	57.82	1.32			
CS3I.C11.LC3.S00				0.69	14.76	30.62	3.95	56.51				
CT1I.C11.LC1.N00				2.89	16.41	20.20	7.39	7.31	2.86	40.77		
CT1I.C11.LC1.S00				2.89	16.41	20.20	7.39	7.31	40.77			
CT1I.C11.LC2.N00				1.56	18.32	21.76	7.80	7.71	1.56	42.88		
CT1I.C11.LC2.S00				1.56	18.32	21.76	7.80	7.71	44.44			
CT2I.C11.LC1.S00				2.57	21.19	18.77	4.53	4.45	1.43	40.77		
CT2I.C11.LC2.S00				2.67	22.96	20.07	4.55	4.46	1.43	44.31		
CT3I.C11.LC1.S00					2.57	24.05	18.77	4.53	1.58	40.77		
CT3I.C11.LC2.S00					2.67	25.83	20.07	4.55	1.60	44.31		
CTOI.C11.LC1.N00			18.44	27.82	28.23	16.65	17.52	16.13	13.37	11.99		
CTOI.C11.LC1.S00			20.08	26.70	27.71	16.65	17.52	16.13	13.37	11.99		
CTOI.C11.LC2.N00			20.10	30.33	30.77	17.90	17.34	15.83	13.06	13.06		
CTOI.C11.LC2.S00			21.89	29.10	30.21	17.90	17.34	15.83	13.06	13.06		
CTOI.C11.LC3.N00			21.76	32.83	33.31	19.15	18.54	16.91	14.14	14.14		
CTOI.C11.LC3.S00			23.69	31.51	32.70	19.15	18.54	16.91	14.14	14.14		
CW1I.C11.LC1.N00		0.08	0.50	1.16	1.16	2.11					0.88	
CW1I.C11.LC1.S00		0.57	0.50	1.16	1.16	0.63					0.88	
CW1I.C11.LC2.N00		0.09	0.50	0.72	0.72	2.13					0.96	
CW1I.C11.LC2.S00		0.09	0.50	0.72	0.72	0.64					0.96	
CW1I.C11.LC3.N00		0.09	0.50	0.78	0.78	2.14					1.04	
CW1I.C11.LC3.S00		0.09	0.50	0.78	0.78	0.65					1.04	
CW2I.C11.LC1.N00		0.08	0.49	0.49	0.49	1.12				1.37		
CW2I.C11.LC2.N00		0.09	0.49	0.49	0.49	1.13				1.45		
CW2I.C11.LC3.N00		0.09	0.49	0.49	0.49	1.14				1.52		
CW3I.C11.LC1.S00		0.57	0.49	0.49	0.49	0.13				1.37	0.49	
CW3I.C11.LC2.S00		0.58	0.49	0.49	0.49	0.14				1.45	0.49	
CW3I.C11.LC3.S00		0.59	0.49	0.49	0.49	0.16				1.52	0.49	
CWHD.C11.LC1.000		0.24				0.37				0.67	1.80	
CWHD.C11.LC2.000		0.26				0.40				0.73	1.96	
CWHD.C11.LC3.000		0.28				0.44				0.79	2.12	
CWHD.C11.LC4.000		0.30				0.47				0.85	2.29	
DBNI.C11.LC1.N00				3.87	10.50	13.50	13.00					
DBNI.C11.LC2.N00				4.22	9.81	12.81	13.90					
DBNI.C11.LC3.N00				4.57	10.62	13.62	14.80					
DW1I.C11.LC1.N00		0.11	0.66	0.66	0.66	2.83					0.66	
DW1I.C11.LC1.S00		0.77	0.66	0.66	0.66	0.84					0.66	
DW1I.C11.LC2.N00		0.12	0.66	0.66	0.66	2.85					0.72	
DW1I.C11.LC2.S00		0.78	0.66	0.66	0.66	0.86					0.72	
DW1I.C11.LC3.N00		0.13	0.66	0.66	0.66	2.86					0.78	
DW1I.C11.LC3.S00		0.79	0.66	0.66	0.66	0.87					0.78	

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
DW2I.C11.LC1.N00		0.11	0.66	0.66	0.66	1.50				1.84		
DW2I.C11.LC2.N00		0.12	0.66	0.66	0.66	1.52				1.95		
DW2I.C11.LC3.N00		0.13	0.66	0.66	0.66	1.54				2.05		
DW3I.C11.LC1.S00		0.77	0.66	0.66	0.66	0.18				1.84	0.66	
DW3I.C11.LC2.S00		0.78	0.66	0.66	0.66	0.19				1.95	0.66	
DW3I.C11.LC3.S00		0.79	0.66	0.66	0.66	0.21				2.05	0.66	
DWHD.C11.LC1.NHR		0.24				0.37				0.67	1.80	
DWHD.C11.LC2.NHR		0.26				0.40				0.73	1.96	
DWHD.C11.LC3.NHR		0.28				0.44				0.79	2.12	
DWHD.C11.LC4.NHR		0.30				0.47				0.85	2.29	
EG1I.C11.LC1.N00				3.28	33.72	20.66	35.60	20.60	17.00	1.50		
EG1I.C11.LC1.S00		1.78	33.72	1.50	1.50	19.16	20.10	4.50	1.50	16.10		
EG1I.C11.LC2.N00				3.44	38.25	22.11	38.40	22.05	18.40	1.50		
EG1I.C11.LC2.S00		1.94	36.75	1.50	1.50	20.61	20.00	4.50	1.50	17.55		
EG1I.C11.LC3.N00				3.60	41.29	23.57	41.20	23.50	19.79	1.50		
EG1I.C11.LC3.S00		2.10	39.79	1.50	1.50	22.07	21.41	4.50	1.50	19.00		
EG2I.C11.LC1.N00			1.78	35.22	1.50	20.66	35.60	20.60	1.50	17.00		
EG2I.C11.LC1.S00			1.78	35.22	1.50	36.16	35.60	4.50	1.50	17.60		
EG2I.C11.LC2.N00			1.94	38.25	1.50	22.11	38.40	22.59	1.50	18.40		
EG2I.C11.LC2.S00			1.94	38.25	1.50	39.01	38.40	4.50	1.50	19.05		
EG2I.C11.LC3.N00			2.10	41.29	1.50	23.57	41.20	23.50	1.50	19.79		
EG2I.C11.LC3.S00			2.10	41.29	1.50	41.86	41.20	4.50	1.50	1.50		
FTOI.C11.LC1.N00			20.00	30.18	30.62	18.06	19.00	17.50	14.50	13.00		
FTOI.C11.LC1.S00			21.78	28.96	30.06	18.06	19.00	17.50	14.50	13.00		
FTOI.C11.LC2.N00			21.80	32.90	33.38	19.42	18.81	17.17	14.17	14.17		
FTOI.C11.LC2.S00			23.74	31.57	32.77	19.42	18.81	17.17	14.17	14.17		
FTOI.C11.LC3.N00			23.60	35.61	36.13	20.77	20.11	18.34	15.34	15.34		
FTOI.C11.LC3.S00			25.70	34.17	35.47	20.77	20.11	18.34	15.34	15.34		
GN1I.C11.LC1.N00				13.08	2.00	5.10	5.10	28.00				
GN1I.C11.LC1.S00						3.15	5.10	17.10	1.50	26.50		
GN1I.C11.LC2.N00				14.26	0.55	3.65	3.65	30.25				
GN1I.C11.LC2.S00						3.30	3.65	16.73	1.50	27.25		
GN1I.C11.LC3.N00				15.43	0.59	3.71	5.21	32.50				
GN1I.C11.LC3.S00						3.45	3.71	17.87	1.50	29.50		
GN2I.C11.LC1.N00					13.08	5.00	5.10	5.10	26.50			
GN2I.C11.LC1.S00				1.50	1.65	5.10	17.10	29.50				
GN2I.C11.LC2.N00					14.26	5.05	5.15	5.15	28.75			
GN2I.C11.LC2.S00				1.50	1.80	3.65	16.73	30.25				
GN2I.C11.LC3.N00					15.43	5.09	5.21	5.21	31.00			
GN2I.C11.LC3.S00				1.50	1.95	3.71	17.87	32.50				
LEKI.C11.LC1.N00							15.40	15.66	12.10	1.50	1.50	19.00
LEKI.C11.LC1.S00							13.90	15.66	12.10	1.50	1.50	19.00
LEKI.C11.LC2.N00							16.52	16.66	13.05	1.50	1.50	20.71
LEKI.C11.LC2.S00							15.02	16.66	13.05	1.50	1.50	20.71
LEKI.C11.LC3.N00							17.63	17.67	14.01	1.50	1.50	22.42
LEKI.C11.LC3.S00							16.13	17.67	14.01	1.50	1.50	22.42
LNTD.C11.LC1.000			0.24		11.00					0.20	0.97	
LNTD.C11.LC2.000			0.26		11.99					0.22	1.06	
LNTD.C11.LC3.000			0.28		12.98					0.24	1.14	
LNTD.C11.LC4.000			0.30		13.97					0.25	1.23	
LNTI.C11.LC1.N00			3.08	6.20	6.20	27.48				0.35	4.38	
LNTI.C11.LC1.S00		2.66	3.08	6.20	28.36						0.35	1.72
LNTI.C11.LC2.N00			0.46	3.86	3.86	29.47				0.39	1.87	
LNTI.C11.LC2.S00		2.66	0.46	3.86	28.02						0.39	1.87
LNTI.C11.LC3.N00			0.50	4.18	4.18	31.47				0.42	2.03	
LNTI.C11.LC3.S00		2.66	0.50	4.18	30.33						0.42	2.03
LT1I.C11.LC1.N00		10.60	1.50	21.50						1.50	12.96	0.60

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
LT1I.C11.LC1.S00		12.10	1.50	20.00							14.46	0.60
LT1I.C11.LC2.N00		11.55	1.50	23.30						1.50	14.13	0.65
LT1I.C11.LC2.S00		13.05	1.50	21.80							15.63	0.65
LT1I.C11.LC3.N00		12.51	1.50	25.10						1.50	15.29	0.71
LT1I.C11.LC3.S00		14.01	1.50	23.60							16.79	0.71
LT2I.C11.LC1.N00		10.60	21.50	1.50						14.46	2.10	
LT2I.C11.LC1.S00		12.10	21.50							14.46	2.10	
LT2I.C11.LC2.N00		11.55	23.30	1.50						15.63	2.15	
LT2I.C11.LC2.S00		13.05	23.30							15.63	2.15	
LT2I.C11.LC3.N00		12.51	25.10	1.50						16.79	2.21	
LT2I.C11.LC3.S00		14.01	25.10							16.79	2.21	
LT3I.C11.LC1.N00		10.60	1.50	1.50	20.00						15.06	
LT3I.C11.LC1.S00		12.10	1.50	21.50							14.46	0.60
LT3I.C11.LC2.N00		11.55	1.50	1.50	21.80						16.28	
LT3I.C11.LC2.S00		13.05	1.50	23.30							15.63	0.65
LT3I.C11.LC3.N00		12.51	1.50	1.50	23.60						17.50	
LT3I.C11.LC3.S00		14.01	1.50	25.10							16.79	0.71
MELD.C11.LC1.000				0.67	0.93	8.00			7.20			
MELD.C11.LC2.000				0.73	1.01	8.72			7.85			
MELD.C11.LC3.000				0.79	1.10	9.44			8.50			
MELD.C11.LC4.000				0.85	1.18	10.16			9.14			
MELI.C11.LC1.N00				1.62	4.00	15.87	15.87	13.20	8.70			
MELI.C11.LC1.S00				2.06	5.06	15.87	21.57	11.70				
MELI.C11.LC2.N00				1.77	4.36	15.39	15.39	12.48	7.85			
MELI.C11.LC2.S00				2.25	3.88	15.39	23.24	12.48				
MELI.C11.LC3.N00				1.91	4.72	16.42	16.42	13.27	8.50			
MELI.C11.LC3.S00				2.43	4.20	16.42	24.91	13.27				
OKRI.C11.LC1.S00			14.55	1.69	10.38	12.38	4.18	4.18	1.23	17.63		
OKRI.C11.LC2.S00			15.86	1.73	11.21	13.17	4.23	4.23	1.23	19.11		
OKRI.C11.LC3.S00			17.17	1.77	12.03	13.95	4.27	4.27	1.23	20.58		
ON1I.C11.LC1.N00			12.10	12.10	1.50	4.50	53.00		18.60	2.06	1.50	
ON1I.C11.LC1.S00		1.50	12.10	12.10	1.50	53.00			18.60	2.06	1.50	
ON1I.C11.LC2.N00			13.05	13.05	1.50	4.50	57.50		20.14	2.11	1.50	
ON1I.C11.LC2.S00		1.50	13.05	13.05	1.50	57.50			20.14	2.11	1.50	
ON1I.C11.LC3.N00			14.01	14.01	1.50	4.50	62.00		21.68	2.16	1.50	
ON1I.C11.LC3.S00		1.50	14.01	14.01	1.50	62.00			21.68	2.16	1.50	
ON2I.C11.LC1.N00			12.10	12.10	1.50	4.50	51.50	20.10	1.50	2.06	1.50	
ON2I.C11.LC1.S00		1.50	12.10	12.10	1.50	51.50			18.60	2.06	1.50	
ON2I.C11.LC2.N00			13.05	13.05	1.50	4.50	56.00	21.64	1.50	2.11	1.50	
ON2I.C11.LC2.S00		1.50	13.05	13.05	1.50	56.00			20.14	2.11	1.50	
ON2I.C11.LC3.N00			14.01	14.01	1.50	4.50	60.50	23.18	1.50	2.16	1.50	
ON2I.C11.LC3.S00		1.50	14.01	14.01	1.50	56.00			21.68	2.16	1.50	
ON3I.C11.LC1.N00			12.10	12.10	1.50	4.50	54.50		18.60	2.06	1.50	
ON3I.C11.LC1.S00		1.50	12.10	12.10	1.50	4.50	51.50			18.60	2.06	
ON3I.C11.LC2.N00			13.05	13.05	1.50	4.50	59.00		20.14	2.11	1.50	
ON3I.C11.LC2.S00		1.50	13.05	13.05	1.50	4.50	56.00			20.14	2.11	
ON3I.C11.LC3.N00			14.01	14.01	1.50	4.50	63.50		21.68	2.16	1.50	
ON3I.C11.LC3.S00		1.50	14.01	14.01	1.50	4.50	56.00			21.68	2.16	
ONSI.C11.LC1.N00			19.19	13.58	2.99	16.27	5.05	59.49				
ONSI.C11.LC1.S00		2.00	18.88	13.58	2.36	16.27	59.49					
ONSI.C11.LC2.N00			20.92	14.65	3.10	17.28	5.05	64.54				
ONSI.C11.LC2.S00		2.18	20.43	14.65	2.42	17.28	64.54					
ONSI.C11.LC3.N00			34.74	23.22	4.04	25.37	5.05	104.94				
ONSI.C11.LC3.S00		3.62	32.81	23.22	2.90	25.37	104.94					
PP1I.C11.LC1.N00					3.28	4.72	12.16	32.60	22.50	22.50	22.50	
PP1I.C11.LC1.S00				19.24	2.66	34.66	34.10	25.50	1.50	21.00		
PP1I.C11.LC2.N00					1.94	4.87	12.98	35.26	22.89	22.89	22.89	

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
PP1I.C11.LC2.S00				20.84	2.76	37.37	36.76	27.39	1.50	22.89		
PP1I.C11.LC3.N00					2.10	5.03	13.81	37.93	24.78	24.78	24.78	
PP1I.C11.LC3.S00				22.43	2.87	40.09	39.43	29.28	1.50	24.78		
PP2I.C11.LC1.N00					20.40	13.66	34.10	25.50	22.50	1.50	22.50	
PP2I.C11.LC1.S00					20.40	34.66	34.10	25.50	1.50	22.50		
PP2I.C11.LC2.N00					22.10	14.48	36.76	27.39	24.39	1.50	24.39	
PP2I.C11.LC2.S00					22.10	37.37	36.76	27.39	1.50	24.39		
PP2I.C11.LC3.N00					23.80	15.31	39.43	29.28	26.28	1.50	26.28	
PP2I.C11.LC3.S00					23.80	40.09	39.43	29.28	1.50	26.28		
PTEI.C11.LC1.N00			6.44	1.35	13.50	16.50	28.00					
PTEI.C11.LC1.S00			6.44	1.35	13.50	16.50	26.50					
PTEI.C11.LC2.N00			7.02	1.47	13.08	16.08	30.25					
PTEI.C11.LC2.S00			7.02	1.47	13.08	16.08	28.75					
PTEI.C11.LC3.N00			7.60	1.59	14.16	17.16	32.50					
PTEI.C11.LC3.S00			7.60	1.59	14.16	17.16	31.00					
PTLI.C11.LC1.N00			6.44	1.35	13.50	16.50	4.50	26.50				
PTLI.C11.LC1.S00			6.44	1.35	13.50	16.50	28.00					
PTLI.C11.LC2.N00			7.02	1.47	13.08	16.08	4.50	28.75				
PTLI.C11.LC2.S00			7.02	1.47	13.08	16.08	30.25					
PTLI.C11.LC3.N00			7.60	1.59	14.16	17.16	4.50	31.00				
PTLI.C11.LC3.S00			7.60	1.59	14.16	17.16	32.50					
RICI.C11.LC1.N00				1.50	4.48	5.70	12.50	12.50	1.50	25.00		
RICI.C11.LC1.S00				7.48	1.50	5.70	12.50	9.50	25.00			
RYED.C11.LC1.000			0.13	0.39			0.34				0.40	
RYED.C11.LC2.000			0.13	0.39			0.34				0.40	
RYED.C11.LC3.000			0.13	0.39			0.34				0.40	
RYED.C11.LC4.000			0.13	0.39			0.34				0.40	
SB1I.C11.LC1.N00						0.29	7.00	12.36	0.66	5.69		
SB1I.C11.LC1.S00						0.29	7.00	13.02	0.66	5.69		
SB1I.C11.LC2.N00						0.32	7.51	13.36	0.66	5.49		
SB1I.C11.LC2.S00						0.32	7.51	13.36	0.66	5.49		
SB1I.C11.LC3.N00						0.35	8.02	14.35	0.66	5.94		
SB1I.C11.LC3.S00						0.35	8.02	14.35	0.66	5.94		
SB2I.C11.LC1.N00			0.29	0.87	6.23	12.91	1.97	6.35				
SB2I.C11.LC1.S00			1.16	0.66	6.23	12.91	1.97	5.03				
SB2I.C11.LC2.N00			0.32	0.89	6.74	13.90	1.97	6.80				
SB2I.C11.LC2.S00			1.21	0.66	6.74	13.90	1.97	5.49				
SB2I.C11.LC3.N00			0.35	0.90	7.24	14.88	1.97	7.25				
SB2I.C11.LC3.S00			1.25	0.66	7.24	14.88	1.97	5.94				
SB3I.C11.LC1.N00				0.29	6.34	13.02	1.97	1.97	5.69			
SB3I.C11.LC1.S00				0.29	6.34	13.02	1.97	1.97	5.03			
SB3I.C11.LC2.N00				0.32	6.85	14.01	1.97	1.97	6.14			
SB3I.C11.LC2.S00				0.32	6.85	14.01	1.97	1.97	5.49			
SB3I.C11.LC3.N00				0.35	7.36	15.01	1.97	1.97	6.60			
SB3I.C11.LC3.S00				0.35	7.36	15.01	1.97	1.97	5.94			
SBTI.C11.LC1.N00			0.83	1.29	1.71	18.43	18.43	18.43	1.29	45.87		
SBTI.C11.LC1.S00			2.12	1.29	1.71	18.43	18.43	18.43	45.87			
SBTI.C11.LC2.N00			0.91	1.29	1.75	19.74	19.74	19.74	1.29	49.88		
SBTI.C11.LC2.S00			2.19	1.29	1.75	19.74	19.74	19.74	49.88			
SBTI.C11.LC3.N00			0.98	1.29	1.79	21.06	21.06	21.06	1.29	53.89		
SBTI.C11.LC3.S00			2.27	1.29	1.79	21.06	21.06	21.06	53.89			
SESD.C11.LC1.000			1.07		11.74		0.35					
SESD.C11.LC2.000			1.17		12.80		0.38					
SESD.C11.LC3.000			1.26		13.85		0.41					
SESD.C11.LC4.000			1.36		14.91		0.44					
SG1I.C11.LC1.N00						0.63	4.70	16.27	25.00	1.42	1.42	16.98
SG1I.C11.LC1.S00						0.63	4.70	16.27	25.00	1.42	16.98	

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
SG1I.C11.LC2.N00						0.69	4.74	17.35	27.13	1.42	1.42	18.51
SG1I.C11.LC2.S00						0.69	4.74	17.35	27.13	1.42	18.51	
SG1I.C11.LC3.N00						0.75	4.78	18.43	29.25	1.42	1.42	20.04
SG1I.C11.LC3.S00						0.75	4.78	18.43	29.25	1.42	20.04	
SG2I.C11.LC1.N00			12.43	25.46	2.11	4.25	4.25	21.23				
SG2I.C11.LC1.S00			14.29	25.70	1.42	4.25	4.25	19.81				
SG2I.C11.LC2.N00			13.54	27.62	2.18	4.25	4.25	22.76				
SG2I.C11.LC2.S00			15.45	27.89	1.42	4.25	4.25	21.34				
SG2I.C11.LC3.N00			14.04	27.89	2.24	4.25	4.25	24.29				
SG2I.C11.LC3.S00			16.61	30.07	1.42	4.25	4.25	22.87				
SG3I.C11.LC1.N00				0.63	13.66	28.53	4.25	4.25	18.40			
SG3I.C11.LC1.S00				0.63	13.66	28.53	4.25	4.25	18.40			
SG3I.C11.LC2.N00				0.69	14.76	30.72	4.25	4.25	19.93			
SG3I.C11.LC2.S00				0.69	14.76	30.72	4.25	4.25	19.93			
SG3I.C11.LC3.N00				0.75	15.87	32.90	4.25	4.25	21.46			
SG3I.C11.LC3.S00				0.75	15.87	32.90	4.25	4.25	21.46			
SN1I.C11.LC1.N00			1.07	1.50	13.40	6.00	7.50	4.50	1.90			
SN1I.C11.LC1.S00			1.07	1.50	13.40	6.00	7.50	3.40				
SN1I.C11.LC2.N00			1.17	1.50	14.61	4.64	6.27	4.50	0.44			
SN1I.C11.LC2.S00			1.17	1.50	14.61	4.64	6.27	3.44				
SN1I.C11.LC3.N00			1.26	1.50	15.81	4.77	6.54	4.50	0.47			
SN1I.C11.LC3.S00			1.26	1.50	15.81	4.77	6.54	3.47				
SN2I.C11.LC1.N00				2.57	13.40	4.50	4.50	4.50	1.90			
SN2I.C11.LC1.S00				2.57	1.90	4.50	4.50	4.50	13.40			
SN2I.C11.LC2.N00				2.67	14.47	4.50	4.50	4.50	1.94			
SN2I.C11.LC2.S00				2.67	1.94	4.50	4.50	4.50	14.47			
SN2I.C11.LC3.N00				2.76	15.54	4.50	4.50	4.50	1.97			
SN2I.C11.LC3.S00				2.76	1.97	4.50	4.50	4.50	15.54			
SN3I.C11.LC1.S00				2.57	1.90	4.50	4.50	4.50	13.40			
SN3I.C11.LC2.S00				2.67	1.94	4.50	4.50	4.50	14.47			
SN3I.C11.LC3.S00				2.76	1.97	4.50	4.50	4.50	15.54			
SNFD.C11.LC1.000			0.68	7.31	0.25			0.25				
SNFD.C11.LC2.000			0.74	7.97	0.28			0.28				
SNFD.C11.LC3.000			0.80	8.63	0.30			0.30				
SNFD.C11.LC4.000			0.86	9.29	0.32			0.32				
SP1I.C11.LC1.N00									11.50	1.50	1.50	20.00
SP1I.C11.LC1.S00									0.84	10.66	1.50	20.00
SP1I.C11.LC2.N00									12.54	1.50	1.50	21.80
SP1I.C11.LC2.S00									0.92	11.62	1.50	21.80
SP1I.C11.LC3.N00									13.57	1.50	1.50	23.60
SP1I.C11.LC3.S00									0.99	12.58	1.50	23.60
SP2I.C11.LC1.N00								10.60	11.50	21.50		
SP2I.C11.LC1.S00									10.60	14.50	21.50	
SP2I.C11.LC2.N00								11.55	14.04	23.30		
SP2I.C11.LC2.S00									11.55	15.54	23.30	
SP2I.C11.LC3.N00								12.51	15.07	25.10		
SP2I.C11.LC3.S00									12.51	16.57	25.10	
SP3I.C11.LC1.N00		30.60								11.50	1.50	
SP3I.C11.LC1.S00		10.60								13.00	1.50	
SP3I.C11.LC2.N00		33.35								14.04	1.50	
SP3I.C11.LC2.S00		11.55								14.04	1.50	
SP3I.C11.LC3.N00		36.11								15.07	1.50	
SP3I.C11.LC3.S00		12.51								15.07	1.50	
SPSI.C11.LC1.N00			12.44	12.10	16.50							
SPSI.C11.LC1.S00			13.94	27.10								
SPSI.C11.LC2.N00			13.56	13.05	17.85							
SPSI.C11.LC2.S00			15.06	29.40								

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
SPSI.C11.LC3.N00			14.68	14.01	19.20							
SPSI.C11.LC3.S00			16.18	31.71								
SQAI.C11.LC1.N00				17.18	13.22	30.66	19.50	16.50				
SQAI.C11.LC1.S00				19.24	27.10	30.10	18.00					
SQAI.C11.LC2.N00				18.73	14.27	33.01	20.85	17.85				
SQAI.C11.LC2.S00				20.84	29.40	32.40	19.35					
SQAI.C11.LC3.N00				20.27	15.33	35.37	22.20	19.20				
SQAI.C11.LC3.S00				22.43	31.71	34.71	20.70					
SS1I.C11.LC1.N00						0.65	4.84	16.77	25.78	52.04		
SS1I.C11.LC1.S00						0.65	4.84	16.77	25.78	52.04		
SS1I.C11.LC2.N00						0.71	4.89	17.89	27.97	56.60		
SS1I.C11.LC2.S00						0.71	4.89	17.89	27.97	56.60		
SS1I.C11.LC3.N00						0.77	4.93	19.00	30.16	61.15		
SS1I.C11.LC3.S00						0.77	4.93	19.00	30.16	61.15		
SS2I.C11.LC1.N00			12.80	26.22	2.18	4.37	4.37	52.00				
SS2I.C11.LC1.S00			14.72	26.47	1.46	4.37	4.37	50.54				
SS2I.C11.LC2.N00			13.95	28.45	2.24	4.37	4.37	56.55				
SS2I.C11.LC2.S00			15.92	28.73	1.46	4.37	4.37	55.09				
SS2I.C11.LC3.N00			15.10	30.68	2.31	4.37	4.37	61.09				
SS2I.C11.LC3.S00			17.11	30.98	1.46	4.37	4.37	59.64				
SS3I.C11.LC1.N00					14.72	29.39	4.37	54.91				
SS3I.C11.LC1.S00				0.65	14.07	29.39	4.37	54.91				
SS3I.C11.LC2.N00					15.92	31.64	4.37	59.46				
SS3I.C11.LC2.S00				0.77	15.21	31.64	4.37	59.46				
SS3I.C11.LC3.N00					17.11	33.89	4.37	64.01				
SS3I.C11.LC3.S00				0.77	16.34	33.89	4.37	64.01				
TOBD.C11.LC2.000				33.60	23.22	33.97	33.97	33.60	33.60	2.69	2.69	2.69
TOBD.C11.LC3.000				36.37	25.13	36.77	36.77	36.37	36.37	2.91	2.91	2.91
TOBD.C11.LC4.000				39.14	43.32	39.57	39.57	39.14	39.14	3.13	3.13	3.13
VCFD.C11.LC1.N00		4.39	0.34		5.67							
VCFD.C11.LC1.S00		0.99	0.34		5.67							
VCFD.C11.LC2.N00		4.79	0.37		6.18							
VCFD.C11.LC2.S00		1.08	0.37		6.18							
VCFD.C11.LC3.N00		5.18	0.40		6.69							
VCFD.C11.LC3.S00		1.16	0.40		6.69							
VCFD.C11.LC4.N00		5.58	0.43		7.20							
VCFD.C11.LC4.S00		1.25	0.43		7.20							
VCGD.C11.LC1.N00		2.90	0.22				4.87					
VCGD.C11.LC1.S00	2.90	0.22				4.87						
VCGD.C11.LC2.N00		3.16	0.25				5.31					
VCGD.C11.LC2.S00	3.16	0.25				5.31						
VCGD.C11.LC3.N00		3.42	0.27				5.75					
VCGD.C11.LC3.S00	3.42	0.27				5.75						
VCGD.C11.LC4.N00		3.69	0.29				6.19					
VCGD.C11.LC4.S00	3.69	0.29				6.19						
WMLD.C11.LC1.000				0.82	0.41	4.61	0.18	7.57				
WMLD.C11.LC2.000				0.89	0.45	5.03	0.19	8.25				
WMLD.C11.LC3.000				0.97	0.49	5.44	0.21	8.93				
WMLD.C11.LC4.000				1.04	0.53	5.86	0.23	9.61				
WMLI.C11.LC1.N00			0.67	0.44	8.30	10.74	20.74	14.74				
WMLI.C11.LC1.S00			0.67	1.94	8.30	10.74	20.74	11.74				
WMLI.C11.LC2.N00			0.73	0.48	8.91	11.30	22.20	15.66				
WMLI.C11.LC2.S00			0.73	1.98	8.91	11.30	22.20	12.66				
WMLI.C11.LC3.N00			0.79	0.52	9.52	11.86	23.66	16.58				
WMLI.C11.LC3.S00			0.79	2.02	9.52	11.86	23.66	13.58				
APPI.C11.LC1.N00		0.50	10.90	2.50		5.70		19.70	24.30			

LABOR COEFFICIENTS

Manhours per decar and month

	LG01	LG02	LG03	LG04	LG05	LG06	LG07	LG08	LG09	LG10	LG11	LG12
APRI.C11.LC1.N00	2.19	6.10	7.75	4.80	0.15	60.00	1.72		4.68			
APRI.C11.LC1.S00			10.65	6.05		16.25	19.00	5.16	3.65			
CRRI.C11.LC1.000	4.26	3.55	3.55	13.25	67.70	58.70	3.40			2.40		
FGDI.C11.LC1.000	2.75	0.38	3.05	1.33	1.85	2.44	1.60	18.75	17.60	18.61		
FGFI.C11.LC1.000	1.95	1.95	1.60	1.33	2.50	2.45	32.25	33.40		0.70		
GRSI.C11.LC1.000	10.53	2.23	4.35		5.55	3.20	4.43	37.91			9.30	9.30
GRTD.C11.LC1.NHR	6.70	21.30	9.50		14.60	2.75	35.65					
GRTD.C11.LC1.NMR	1.45	0.25	17.00	18.25	8.20	5.25	16.92	2.93	13.05	13.05		
GRTI.C11.LC1.N00		3.35	19.00	0.60	8.80	2.25		2.00	16.92	16.92		
GRTI.C11.LC1.S00	7.43	1.33	11.80		2.81	11.70	30.00	22.31			6.20	6.20
GRWD.C11.LC1.N00	1.45	0.25	17.00	18.25	8.20	5.25	16.92	2.93	13.05	13.05		
OLOD.C11.LC1.000		3.25	3.23				0.56		0.50		7.20	7.20
OLOT.C11.LC1.000		3.25	3.23				0.56		0.50		7.20	7.20
PARI.C11.LC1.000			3.00	3.30	4.00	13.90	4.00	4.00	6.85	3.40	11.80	
PCFI.C11.LC1.000	7.00	14.95	9.20	26.90	12.40	0.03	15.65	25.20	24.50	21.20		
PCPI.C11.LC1.000		9.05			8.00	8.40	35.40		37.90		4.50	
PISD.C11.LC1.000		0.45	1.45	1.45	0.45				11.84	1.00	1.15	0.15
PQMI.C11.LC1.000		11.10	12.90	16.80	0.90	0.90			47.00	62.00		6.90
WCRI.C11.LC1.000		1.00	12.75	4.80		6.22	54.10	54.10	3.83			

APPENDIX E 3:

MONTHLY MACHINE COEFFICIENTS

(HRS PER DECAR)

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
ALFI.C11.LC1.N00		0.17		0.07	0.07	0.07	0.14	0.14	0.07		0.29	
ALFI.C11.LC1.S00		0.17		0.07	0.07	0.07	0.14	0.14	0.07	0.07	0.29	
ALFI.C11.LC2.N00		0.18		0.07	0.07	0.07	0.15	0.15	0.07		0.32	
ALFI.C11.LC2.S00		0.18		0.07	0.07	0.07	0.15	0.15	0.07	0.07	0.32	
ALFI.C11.LC3.N00		0.20		0.08	0.08	0.08	0.16	0.16	0.08		0.34	
ALFI.C11.LC3.S00		0.20		0.08	0.08	0.08	0.16	0.16	0.08	0.08	0.34	
BR1I.C11.LC1.N00		0.12				0.28					0.30	
BR1I.C11.LC1.S00		0.12			0.28						0.30	
BR1I.C11.LC2.N00		0.13				0.31					0.33	
BR1I.C11.LC2.S00		0.13			0.31						0.33	
BR1I.C11.LC3.N00		0.14				0.33					0.35	
BR1I.C11.LC3.S00		0.14			0.33						0.35	
BR2I.C11.LC1.N00		0.12				0.28				0.30		
BR2I.C11.LC1.S00		0.12			0.28					0.30		
BR2I.C11.LC2.N00		0.13				0.31				0.33		
BR2I.C11.LC2.S00		0.13			0.31					0.33		
BR2I.C11.LC3.N00		0.14				0.33				0.35		
BR2I.C11.LC3.S00		0.14			0.33					0.35		
BRLD.C11.LC1.000		0.12			0.26						0.82	
BRLD.C11.LC2.000		0.13			0.28						0.89	
BRLD.C11.LC3.000		0.14			0.31						0.97	
BRLD.C11.LC4.000		0.15			0.33						1.04	
CASI.C11.LC1.N00			1.92				0.35					
CASI.C11.LC1.S00		1.78	0.14			0.35						
CASI.C11.LC2.N00			2.09				0.38					
CASI.C11.LC2.S00		1.94	0.15			0.38						
CASI.C11.LC3.N00			2.27				0.41					
CASI.C11.LC3.S00		2.10	0.17			0.41						
CAWI.C11.LC1.N00				0.35					1.92			
CAWI.C11.LC1.S00				0.35					1.92			
CAWI.C11.LC2.N00				0.38					2.09			
CAWI.C11.LC2.S00				0.38					2.09			
CAWI.C11.LC3.N00				0.41					2.09			
CAWI.C11.LC3.S00				0.41					2.27			
CB1I.C11.LC1.N00								19.20				
CB1I.C11.LC1.S00								19.20				
CB1I.C11.LC2.N00								20.93				
CB1I.C11.LC2.S00								20.93				
CB1I.C11.LC3.N00								22.66				
CB1I.C11.LC3.S00								22.66				
CB2I.C11.LC1.N00								1.92				0.35
CB2I.C11.LC1.S00								1.92			0.35	
CB2I.C11.LC2.N00								2.09				0.38
CB2I.C11.LC2.S00								2.09			0.38	
CB2I.C11.LC3.N00								2.27				0.41
CB2I.C11.LC3.S00								2.27			0.41	
CB3I.C11.LC1.N00				0.35					1.92			
CB3I.C11.LC1.S00			0.35						1.92			
CB3I.C11.LC2.N00				0.38					2.09			
CB3I.C11.LC2.S00			0.38						2.09			
CB3I.C11.LC3.N00				0.41					2.27			
CB3I.C11.LC3.S00			0.41						2.27			
CC1I.C11.LC1.N00					1.27		0.21	0.21	0.21			
CC1I.C11.LC1.S00				1.27		0.21	0.21	0.21				
CC1I.C11.LC2.N00					1.38		0.23	0.23	0.23			
CC1I.C11.LC2.S00				1.38		0.23	0.23	0.23				
CC1I.C11.LC3.N00					1.49		0.25	0.25	0.25			

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
CC1I.C11.LC3.S00				1.49		0.25	0.25	0.25				
CC2I.C11.LC1.N00					1.27		0.21	0.21		0.21		
CC2I.C11.LC1.S00					1.92	0.32	0.32		0.32			
CC2I.C11.LC2.N00					1.38		0.23	0.23		0.23		
CC2I.C11.LC2.S00					2.09	0.35	0.35		0.35			
CC2I.C11.LC3.N00					1.49		0.25	0.25		0.25		
CC2I.C11.LC3.S00					2.27	0.38	0.38		0.38			
CG1I.C11.LC1.N00						0.44	0.24			0.30		
CG1I.C11.LC1.S00							0.24			0.30		
CG1I.C11.LC2.N00						0.48	0.26			0.33		
CG1I.C11.LC2.S00							0.26			0.33		
CG1I.C11.LC3.N00						0.52	0.28			0.35		
CG1I.C11.LC3.S00							0.28			0.35		
CG2I.C11.LC1.N00			0.67	0.24				0.30				
CG2I.C11.LC1.S00			0.91					0.30				
CG2I.C11.LC2.N00			0.73	0.26				0.33				
CG2I.C11.LC2.S00			0.99					0.33				
CG2I.C11.LC3.N00			0.79	0.28				0.35				
CG2I.C11.LC3.S00			1.07					0.35				
CG3I.C11.LC1.N00					0.24				0.30			
CG3I.C11.LC1.S00				0.44	0.24			0.30				
CG3I.C11.LC2.N00					0.26				0.33			
CG3I.C11.LC2.S00				0.48	0.26			0.33				
CG3I.C11.LC3.N00					0.28				0.35			
CG3I.C11.LC3.S00				0.52	0.28			0.35				
CH1I.C11.LC1.N00							0.81				0.79	
CH1I.C11.LC1.S00						0.81					0.79	
CH1I.C11.LC2.N00							0.89				0.86	
CH1I.C11.LC2.S00						0.89					0.86	
CH1I.C11.LC3.N00							0.96				0.93	
CH1I.C11.LC3.S00						0.96					0.93	
CH2I.C11.LC1.N00						0.54					0.52	
CH2I.C11.LC1.S00						0.85					0.82	
CH2I.C11.LC2.N00						0.59					0.57	
CH2I.C11.LC2.S00						0.93					0.89	
CH2I.C11.LC3.N00						0.64					0.62	
CH2I.C11.LC3.S00						1.00					0.97	
CH3I.C11.LC1.N00							0.54				0.52	
CH3I.C11.LC1.S00						0.85						0.82
CH3I.C11.LC2.N00							0.59				0.57	
CH3I.C11.LC2.S00						0.93						0.89
CH3I.C11.LC3.N00							0.64				0.62	
CH3I.C11.LC3.S00						1.00						0.97
CHCD.C11.LC1.N00						0.48					0.52	
CHCD.C11.LC1.S00					0.48						0.52	
CHCD.C11.LC2.N00						0.52					0.57	
CHCD.C11.LC2.S00					0.52						0.57	
CHCD.C11.LC3.N00						0.56					0.62	
CHCD.C11.LC3.S00					0.56						0.62	
CHCD.C11.LC4.N00						0.61					0.66	
CHCD.C11.LC4.S00					0.61						0.66	
CLFI.C11.LC1.N00							1.19					
CLFI.C11.LC1.S00							1.19					
CLFI.C11.LC2.N00							1.30					
CLFI.C11.LC2.S00							1.30					
CLFI.C11.LC3.N00							1.40					
CLFI.C11.LC3.S00							1.40					

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
CS1I.C11.LC1.N00						0.67	0.24			0.30		
CS1I.C11.LC1.S00						0.67	0.24			0.30		
CS1I.C11.LC2.N00						0.73	0.26			0.33		
CS1I.C11.LC2.S00						0.73	0.26			0.33		
CS1I.C11.LC3.N00						0.79	0.28			0.35		
CS1I.C11.LC3.S00						0.79	0.28			0.35		
CS2I.C11.LC1.N00			0.67	0.24				0.30				
CS2I.C11.LC1.S00			0.91				0.30					
CS2I.C11.LC2.N00			0.73	0.26				0.33				
CS2I.C11.LC2.S00			0.99				0.33					
CS2I.C11.LC3.N00			0.79	0.28				0.35				
CS2I.C11.LC3.S00			1.07				0.35					
CS3I.C11.LC1.N00				0.59	0.24			0.30				
CS3I.C11.LC1.S00				0.67	0.24			0.30				
CS3I.C11.LC2.N00				0.64	0.26			0.33				
CS3I.C11.LC2.S00				0.73	0.26			0.33				
CS3I.C11.LC3.N00				0.69	0.28			0.35				
CS3I.C11.LC3.S00				0.79	0.28			0.35				
CT1I.C11.LC1.N00				1.36	0.16	0.16	0.24	0.16		0.46		
CT1I.C11.LC1.S00				1.36	0.16	0.16	0.24	0.16	0.46			
CT1I.C11.LC2.N00				1.47	0.17	0.17	0.26	0.17		0.50		
CT1I.C11.LC2.S00				1.47	0.17	0.17	0.26	0.17	0.50			
CT2I.C11.LC1.S00				1.19	0.16	0.16	0.24	0.16		0.46		
CT2I.C11.LC2.S00				1.30	0.17	0.17	0.26	0.17		0.50		
CT3I.C11.LC1.S00					1.19	0.16	0.16	0.24	0.16	0.46		
CT3I.C11.LC2.S00					1.30	0.17	0.17	0.26	0.17	0.50		
CTOI.C11.LC1.N00				1.93	0.18	0.25	0.25	0.25	0.25	0.25		
CTOI.C11.LC1.S00			1.78	0.15	0.25	0.25	0.25	0.25	0.25	0.25		
CTOI.C11.LC2.N00				2.10	0.27	0.27	0.27	0.27	0.27	0.27		
CTOI.C11.LC2.S00			1.94	0.16	0.27	0.27	0.27	0.27	0.27	0.27		
CTOI.C11.LC3.N00				2.28	0.30	0.30	0.30	0.30	0.30	0.30		
CTOI.C11.LC3.S00			2.10	0.18	0.30	0.30	0.30	0.30	0.30	0.30		
CW1I.C11.LC1.N00		0.12				0.28					1.01	
CW1I.C11.LC1.S00		0.12				0.28					1.01	
CW1I.C11.LC2.N00		0.13				0.31					1.10	
CW1I.C11.LC2.S00		0.13				0.31					1.10	
CW1I.C11.LC3.N00		0.14				0.33					1.19	
CW1I.C11.LC3.S00		0.14				0.33					1.19	
CW2I.C11.LC1.N00		0.12				0.28				1.01		
CW2I.C11.LC2.N00		0.13				0.31				1.10		
CW2I.C11.LC3.N00		0.14				0.33				1.19		
CW3I.C11.LC1.S00		0.12				0.28				1.01		
CW3I.C11.LC2.S00		0.13				0.31				1.10		
CW3I.C11.LC3.S00		0.14				0.33				1.19		
CWHD.C11.LC1.000		0.12				0.26				0.67	0.15	
CWHD.C11.LC2.000		0.13				0.28				0.73	0.16	
CWHD.C11.LC3.000		0.14				0.31				0.79	0.18	
CWHD.C11.LC4.000		0.15				0.33				0.85	0.19	
DBNI.C11.LC1.N00				0.87			0.80					
DBNI.C11.LC2.N00				0.95			0.87					
DBNI.C11.LC3.N00				1.03			0.94					
DW1I.C11.LC1.N00						0.28					1.01	
DW1I.C11.LC1.S00						0.28					1.01	
DW1I.C11.LC2.N00						0.31					1.10	
DW1I.C11.LC2.S00						0.31					1.10	
DW1I.C11.LC3.N00						0.33					1.30	
DW1I.C11.LC3.S00						0.33					1.30	

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
DW2I.C11.LC1.N00		0.12				0.28				1.01		
DW2I.C11.LC2.N00		0.13				0.31				1.10		
DW2I.C11.LC3.N00		0.14				0.33				1.19		
DW3I.C11.LC1.S00		0.12				0.28				1.01		
DW3I.C11.LC2.S00		0.13				0.31				1.10		
DW3I.C11.LC3.S00		0.14				0.33				1.19		
DWHD.C11.LC1.000			0.20			0.31					0.56	0.13
DWHD.C11.LC2.000			0.22			0.34					0.61	0.14
DWHD.C11.LC3.000			0.24			0.37					0.66	0.15
DWHD.C11.LC4.000			0.26			0.39					0.71	0.16
EG1I.C11.LC1.N00			1.78	0.24			0.96	0.95		0.96		
EG1I.C11.LC1.S00		1.78	0.24			0.96	0.96			0.96		
EG1I.C11.LC2.N00			1.94	0.26			1.05	1.04		1.05		
EG1I.C11.LC2.S00		1.94	0.26			1.05	1.05			1.05		
EG1I.C11.LC3.N00			2.10	0.28			1.13	1.12		1.13		
EG1I.C11.LC3.S00		2.10	0.28			1.13	1.13			1.13		
EG2I.C11.LC1.N00			1.78	0.24			0.96			0.96		
EG2I.C11.LC1.S00			1.78	0.24		0.96	0.96			0.96		
EG2I.C11.LC2.N00			1.94	0.26			1.05			1.05		
EG2I.C11.LC2.S00			1.94	0.26		1.05	1.05			1.05		
EG2I.C11.LC3.N00			2.10	0.28			1.13			1.13		
EG2I.C11.LC3.S00			2.10	0.28		1.13	1.13			1.13		
FTOI.C11.LC1.N00				1.93	0.18	0.25	0.25	0.25	0.25	0.25		
FTOI.C11.LC1.S00			1.78	0.15	0.25	0.25	0.25	0.25	0.25	0.25		
FTOI.C11.LC2.N00				2.10	0.27	0.27	0.27	0.27	0.27	0.27		
FTOI.C11.LC2.S00			1.94	0.16	0.27	0.27	0.27	0.27	0.27	0.27		
FTOI.C11.LC3.N00				2.28	0.30	0.30	0.30	0.30	0.30	0.30		
FTOI.C11.LC3.S00			2.10	0.18	0.30	0.30	0.30	0.30	0.30	0.30		
GN1I.C11.LC1.N00			1.19					2.20				
GN1I.C11.LC1.S00						0.91				2.20		
GN1I.C11.LC2.N00			1.30					2.40				
GN1I.C11.LC2.S00						0.99				2.40		
GN1I.C11.LC3.N00				1.40				2.60				
GN1I.C11.LC3.S00						1.07				2.60		
GN2I.C11.LC1.N00					0.84				2.20			
GN2I.C11.LC1.S00					0.91		0.35	2.20				
GN2I.C11.LC2.N00					0.92				2.40			
GN2I.C11.LC2.S00					0.99		0.38	2.40				
GN2I.C11.LC3.N00					0.99				2.60			
GN2I.C11.LC3.S00					1.07		0.41	2.60				
LEKI.C11.LC1.N00							1.92					0.35
LEKI.C11.LC1.S00							1.92					0.35
LEKI.C11.LC2.N00							2.09					0.38
LEKI.C11.LC2.S00							2.09					0.38
LEKI.C11.LC3.N00							2.27					0.41
LEKI.C11.LC3.S00							2.27					0.41
LNTD.C11.LC1.000					0.48						0.52	
LNTD.C11.LC2.000					0.52						0.57	
LNTD.C11.LC3.000					0.56						0.62	
LNTD.C11.LC4.000					0.61						0.66	
LNTI.C11.LC1.N00						0.73				0.17	0.70	
LNTI.C11.LC1.S00					0.73						0.17	0.70
LNTI.C11.LC2.N00						0.79				0.19	0.76	
LNTI.C11.LC2.S00					0.79						0.19	0.76
LNTI.C11.LC3.N00						0.85				0.20	0.83	
LNTI.C11.LC3.S00					0.85						0.20	0.83
LT1I.C11.LC1.N00				0.35						1.92		

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
LT1I.C11.LC1.S00				0.35							1.92	
LT1I.C11.LC2.N00				0.38						2.09		
LT1I.C11.LC2.S00				0.38							2.09	
LT1I.C11.LC3.N00				0.41						2.27		
LT1I.C11.LC3.S00				0.41							2.27	
LT2I.C11.LC1.N00			0.35							1.92		
LT2I.C11.LC1.S00			0.35							1.92		
LT2I.C11.LC2.N00			0.38							2.09		
LT2I.C11.LC2.S00			0.38							2.09		
LT2I.C11.LC3.N00			0.41							2.27		
LT2I.C11.LC3.S00			0.41							2.27		
LT3I.C11.LC1.N00					0.35						1.92	
LT3I.C11.LC1.S00				0.35							1.92	
LT3I.C11.LC2.N00					0.38						2.09	
LT3I.C11.LC2.S00				0.38							2.09	
LT3I.C11.LC3.N00					0.41						2.27	
LT3I.C11.LC3.S00				0.41							2.27	
MELD.C11.LC1.000				0.67		0.50			0.80			
MELD.C11.LC2.000				0.73		0.55			0.87			
MELD.C11.LC3.000				0.79		0.59			0.94			
MELD.C11.LC4.000				0.85		0.64			1.02			
MELI.C11.LC1.N00				1.62	0.22	0.50	0.50	0.08	0.08			
MELI.C11.LC1.S00				1.84		0.50	0.58	0.08				
MELI.C11.LC2.N00				1.77	0.24	0.55	0.55	0.09	0.09			
MELI.C11.LC2.S00				1.84		0.50	0.58	0.08				
MELI.C11.LC3.N00				1.91	0.26	0.59	0.59	0.09	0.09			
MELI.C11.LC3.S00				2.17		0.59	0.68	0.09				
OKRI.C11.LC1.S00			2.13							0.20		
OKRI.C11.LC2.S00			2.32							0.22		
OKRI.C11.LC3.S00			2.51							0.24		
ON1I.C11.LC1.N00							0.24		1.46			
ON1I.C11.LC1.S00						0.24			1.46			
ON1I.C11.LC2.N00							0.26		1.59			
ON1I.C11.LC2.S00						0.26			1.59			
ON1I.C11.LC3.N00							0.29		1.72			
ON1I.C11.LC3.S00						0.29			1.72			
ON2I.C11.LC1.N00							0.33	1.98				
ON2I.C11.LC1.S00						0.24			1.46			
ON2I.C11.LC2.N00							0.36	2.16				
ON2I.C11.LC2.S00						0.26			1.59			
ON2I.C11.LC3.N00							0.39	2.34				
ON2I.C11.LC3.S00						0.29			1.72			
ON3I.C11.LC1.N00							0.33		1.98			
ON3I.C11.LC1.S00							0.24			1.46		
ON3I.C11.LC2.N00							0.36		2.16			
ON3I.C11.LC2.S00							0.26			1.59		
ON3I.C11.LC3.N00							0.39		2.34			
ON3I.C11.LC3.S00							0.29			1.72		
ONSI.C11.LC1.N00			1.98					0.33				
ONSI.C11.LC1.S00		1.78	0.20				0.33					
ONSI.C11.LC2.N00			2.16					0.36				
ONSI.C11.LC2.S00		1.94	0.22				0.36					
ONSI.C11.LC3.N00			2.34					0.39				
ONSI.C11.LC3.S00		2.10	0.24				0.39					
PP1I.C11.LC1.N00					1.69			0.12	0.12	0.12	0.12	
PP1I.C11.LC1.S00				0.28							1.52	
PP1I.C11.LC2.N00					1.84			0.13	0.13	0.13	0.13	

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
PP1I.C11.LC2.S00				0.30							1.66	
PP1I.C11.LC3.N00					1.99			0.14	0.14	0.14	0.14	
PP1I.C11.LC3.S00				0.33							1.80	
PP2I.C11.LC1.N00					2.13		0.15	0.15	0.15		0.15	
PP2I.C11.LC1.S00					1.69	0.12	0.12	0.12		0.12		
PP2I.C11.LC2.N00					2.32		0.16	0.16	0.16		0.16	
PP2I.C11.LC2.S00					1.84	0.13	0.13	0.13		0.13		
PP2I.C11.LC3.N00					2.51		0.18	0.18	0.18		0.18	
PP2I.C11.LC3.S00					1.99	0.14	0.14	0.14		0.14		
PTEI.C11.LC1.N00			1.54				2.20					
PTEI.C11.LC1.S00			1.54				2.20					
PTEI.C11.LC2.N00			1.68				2.40					
PTEI.C11.LC2.S00			1.68				2.40					
PTEI.C11.LC3.N00			1.82				2.60					
PTEI.C11.LC3.S00			1.82				2.60					
PTLI.C11.LC1.N00			1.54					2.20				
PTLI.C11.LC1.S00			1.54				2.20					
PTLI.C11.LC2.N00			1.68					2.40				
PTLI.C11.LC2.S00			1.68				2.40					
PTLI.C11.LC3.N00			1.82					2.60				
PTLI.C11.LC3.S00			1.82				2.60					
RICI.C11.LC1.N00					2.11					1.49		
RICI.C11.LC1.S00				2.11					1.49			
RYED.C11.LC0.000			0.11	0.32			0.21				0.28	
SB1I.C11.LC1.N03						0.58				0.82		
SB1I.C11.LC1.S00						0.58	0.21			0.73		
SB1I.C11.LC2.N00						0.63				0.89		
SB1I.C11.LC2.S00						0.63	0.23			0.80		
SB1I.C11.LC3.N00						0.68				0.97		
SB1I.C11.LC3.S00						0.68	0.24			0.87		
SB2I.C11.LC1.N00			0.67	0.24				0.85				
SB2I.C11.LC1.S00			0.79					0.73				
SB2I.C11.LC2.N00			0.73	0.26				0.93				
SB2I.C11.LC2.S00			0.86					0.80				
SB2I.C11.LC3.N00			0.79	0.28				1.00				
SB2I.C11.LC3.S00			0.93					0.87				
SB3I.C11.LC1.N00				0.29	0.24				0.85			
SB3I.C11.LC1.S00				0.58	0.21				0.73			
SB3I.C11.LC2.N00				0.32	0.26				0.93			
SB3I.C11.LC2.S00				0.63	0.23				0.80			
SB3I.C11.LC3.N00				0.35	0.28				1.00			
SB3I.C11.LC3.S00				0.68	0.24				0.86			
SBTI.C11.LC1.N00			1.41							0.69		
SBTI.C11.LC1.S00			1.41						0.69			
SBTI.C11.LC2.N00			1.54							0.75		
SBTI.C11.LC2.S00			1.54						0.75			
SBTI.C11.LC3.N00			1.67							0.81		
SBTI.C11.LC3.S00			1.67						0.81			
SESD.C11.LC1.000			0.87				0.20					
SESD.C11.LC2.000			0.95				0.22					
SESD.C11.LC3.000			1.03				0.24					
SESD.C11.LC4.000			1.10				0.25					
SG1I.C11.LC1.N00						0.67	0.24					0.30
SG1I.C11.LC1.S00						0.67	0.24				0.30	
SG1I.C11.LC2.N00						0.73	0.26					0.33
SG1I.C11.LC2.S00						0.73	0.26				0.33	
SG1I.C11.LC3.N00						0.79	0.28					0.35

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
SG1I.C11.LC3.S00						0.79	0.28				0.35	
SG2I.C11.LC1.N00			0.67	0.24				0.30				
SG2I.C11.LC1.S00			0.91					0.30				
SG2I.C11.LC2.N00			0.73	0.26				0.33				
SG2I.C11.LC2.S00			0.99					0.33				
SG2I.C11.LC3.N00			0.79	0.28				0.35				
SG2I.C11.LC3.S00			1.07					0.35				
SG3I.C11.LC1.N00				0.63	0.24				0.30			
SG3I.C11.LC1.S00				0.67	0.24				0.30			
SG3I.C11.LC2.N03				0.69	0.26				0.33			
SG3I.C11.LC2.S00				0.73	0.26				0.33			
SG3I.C11.LC3.N00				0.75	0.28				0.35			
SG3I.C11.LC3.S00				0.79	0.28				0.35			
SN1I.C11.LC1.N00			0.87						0.25			
SN1I.C11.LC1.S00			0.87					0.25				
SN1I.C11.LC2.N00			0.95						0.27			
SN1I.C11.LC2.S06			0.95					0.27				
SN1I.C11.LC3.N00			1.03						0.30			
SN1I.C11.LC3.S00			1.03					0.30				
SN2I.C11.LC1.N00				0.87					0.25			
SN2I.C11.LC1.S00				0.87					0.25			
SN2I.C11.LC2.N00				0.95					0.27			
SN2I.C11.LC2.S00				0.95					0.27			
SN2I.C11.LC3.N00				1.03					0.30			
SN2I.C11.LC3.S00				1.03					0.30			
SN3I.C11.LC1.S00				1.07					0.25			
SN3I.C11.LC2.S00				1.17					0.27			
SN3I.C11.LC3.S00				1.26					0.30			
SNFD.C11.LC1.000		0.52	0.52					0.15				
SNFD.C11.LC2.000		0.57	0.57					0.16				
SNFD.C11.LC3.000		0.62	0.62					0.18				
SNFD.C11.LC4.000		0.67	0.67					0.19				
SP1I.C11.LC1.N00									1.01			
SP1I.C11.LC1.S00									0.84	0.14		
SP1I.C11.LC2.N00									1.10			
SP1I.C11.LC2.S00									0.92	0.15		
SP1I.C11.LC3.N00									1.19			
SP1I.C11.LC3.S00									1.09	0.18		
SP2I.C11.LC1.N00									0.98	0.35		
SP2I.C11.LC1.S00									0.14	0.84	0.35	
SP2I.C11.LC2.N00									1.07	0.38		
SP2I.C11.LC2.S00									0.15	0.92	0.38	
SP2I.C11.LC3.N00									1.16	0.41		
SP2I.C11.LC3.S00									0.17	0.99	0.41	
SP3I.C11.LC1.N00		0.35								0.98		
SP3I.C11.LC1.S00										0.98		
SP3I.C11.LC2.N00		0.38								1.07		
SP3I.C11.LC2.S00										1.07		
SP3I.C11.LC3.N00		0.41								1.16		
SP3I.C11.LC3.S00										1.16		
SPSI.C11.LC1.N00			1.92		0.35							
SPSI.C11.LC1.S00			1.92	0.35								
SPSI.C11.LC2.N00			2.09		0.38							
SPSI.C11.LC2.S00			2.09	0.38								
SPSI.C11.LC3.N00			2.27		0.41							
SPSI.C11.LC3.S00			2.27	0.41								
SQAI.C11.LC1.N00				2.13		0.15	0.15	0.15				

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
SQAI.C11.LC1.S00				2.13	0.15	0.15	0.15					
SQAI.C11.LC2.N00				2.32		0.16	0.16	0.16				
SQAI.C11.LC2.S00				2.32	0.16	0.16	0.16					
SQAI.C11.LC3.N00				2.51		0.18	0.18	0.18				
SQAI.C11.LC3.N03				2.51		0.18	0.18	0.18				
SQAI.C11.LC3.S00				2.51	0.18	0.18	0.18					
SS1I.C11.LC1.N00						0.67	0.24			0.30		
SS1I.C11.LC1.S00						0.67	0.24			0.30		
SS1I.C11.LC2.N00						0.73	0.26			0.33		
SS1I.C11.LC2.S00						0.73	0.26			0.33		
SS1I.C11.LC3.N00						0.79	0.28			0.35		
SS1I.C11.LC3.S00						0.79	0.28			0.35		
SS2I.C11.LC1.N00			0.67	0.24				0.30				
SS2I.C11.LC1.S00			0.91					0.30				
SS2I.C11.LC2.N00			0.73	0.26				0.33				
SS2I.C11.LC2.S00			0.99					0.33				
SS2I.C11.LC3.N00			0.79	0.28				0.35				
SS2I.C11.LC3.S00			1.07					0.35				
SS3I.C11.LC1.N00					0.89			0.30				
SS3I.C11.LC1.S00				0.67	0.24			0.30				
SS3I.C11.LC2.N00					0.97			0.33				
SS3I.C11.LC2.S00				0.73	0.26			0.33				
SS3I.C11.LC3.N00					1.05			0.35				
SS3I.C11.LC3.S00				0.79	0.28			0.35				
TOBD.C11.LC2.000				1.13								
TOBD.C11.LC3.000				1.23								
TOBD.C11.LC4.000				1.32								
VCFD.C11.LC1.000		0.67	0.15		0.25							
VCFD.C11.LC2.000		0.73	0.16		0.27							
VCFD.C11.LC3.000		0.79	0.18		0.30							
VCFD.C11.LC4.000		0.85	0.19		0.32							
VCGD.C11.LC1.N00		0.67	0.15				0.50					
VCGD.C11.LC1.S00	0.67	0.15				0.50						
VCGD.C11.LC2.N00		0.73	0.16				0.55					
VCGD.C11.LC2.S00	0.73	0.16				0.55						
VCGD.C11.LC3.N00		0.79	0.18				0.59					
VCGD.C11.LC3.S00	0.79	0.18	-			0.59						
VCGD.C11.LC4.N00		0.85	0.19				0.64					
VCGD.C11.LC4.S00	0.85	0.19				0.64						
WMLD.C11.LC1.N00				0.89		0.36		0.24				
WMLD.C11.LC1.S00				0.89		0.36	0.24					
WMLD.C11.LC2.N00				0.97		0.39		0.26				
WMLD.C11.LC2.S00				0.97		0.39	0.26					
WMLD.C11.LC3.N00				1.05		0.42		0.28				
WMLD.C11.LC3.S00				1.05		0.42	0.28					
WMLD.C11.LC4.N00				1.13		0.46		0.30				
WMLD.C11.LC4.S00				1.13		0.46	0.30					
WMLI.C11.LC1.N00			0.67	0.27	0.36	0.36	0.60	0.24				
WMLI.C11.LC1.S00			0.67	0.27	0.36	0.36	0.60	0.24				
WMLI.C11.LC2.N00			0.73	0.29	0.39	0.39	0.65	0.26				
WMLI.C11.LC2.S00			0.73	0.29	0.39	0.39	0.65	0.26				
WMLI.C11.LC3.N00			0.79	0.32	0.42	0.42	0.71	0.28				
WMLI.C11.LC3.S00			0.79	0.32	0.42	0.42	0.71	0.28				
APPI.C11.LC1.N00			0.52			0.52		0.16	0.16			
APRI.C11.LC1.N00			0.86	0.07	0.07		0.86					
APRI.C11.LC1.S00				0.86		0.09	0.09	0.86				

MONTHLY MACHINE COEFFICIENTS

Machinehours per decar and month

	MG01	MG02	MG03	MG04	MG05	MG06	MG07	MG08	MG09	MG10	MG11	MG12
CRRI.C11.LC1.N00				0.72	0.80	0.06	1.70			1.20		
FGDI.C11.LC1.N00				0.70	0.35		0.65		0.05	0.35		
FGFI.C11.LC1.N00				0.70	0.70		0.70	0.35		0.35		
GRSI.C11.LC1.N00		0.70	1.14		0.20		1.80	0.15				
GRTD.C11.LC1.000			0.40				0.40					
GRTD.C11.LC1.000									0.60	0.60		
GRTI.C11.LC1.N00			0.60		0.60				0.17	0.17		
GRTI.C11.LC1.S00		0.70	1.14		0.20		2.00	0.25				
GRWD.C11.LC1.000									0.60	0.60		
OLOD.C11.LC1.000							0.28		0.50		0.02	0.02
PARI.C11.LC1.N00				3.00	4.00	4.00	4.00	4.00	4.00	1.60		
PCFI.C11.LC1.N00		0.50	1.66		0.15	0.15	0.21	0.70	1.90			
PCPI.C11.LC1.N00		0.50				0.80	0.76		0.26		0.78	
PISD.C11.LC1.000		0.25	0.15	0.15	0.25				0.04		0.15	0.15
POMI.C11.LC1.N00									0.30	0.30		
WCRI.C11.LC1.N00			0.48	0.75		1.22	0.14	0.14				

APPENDIX E 4:

SEED COEFFICIENTS

(KG PER DECAR)

SEED COEFFICIENTS	kg/da
ALFI.C11.LC0.000.S-ALFALFA	1.50
BR1I.C11.LC0.000.S-BARLEY	20.00
BR2I.C11.LC0.000.S-BARLEY	20.00
BRLD.C11.LC0.000.S-BARLEY	18.00
CASI.C11.LC0.000.S-CARROT	0.75
CAWI.C11.LC0.000.S-CARROT	0.75
CB1I.C11.LC0.000.S-CABBAGE	7.50
CB2I.C11.LC0.000.S-CABBAGE	7.50
CB2I.C11.LC2.000.S-CABBAGE	7.50
CB2I.C11.LC3.000.S-CABBAGE	7.50
CB3I.C11.LC0.000.S-CABBAGE	7.50
CC1I.C11.LC0.000.S-CUCUMBER	0.55
CC2I.C11.LC0.000.S-CUCUMBER	0.55
CG1I.C11.LC0.000.S-CORN	4.00
CG2I.C11.LC0.000.S-CORN	4.00
CG3I.C11.LC2.000.S-CORN	4.00
CH1I.C11.LC0.000.S-CHICKPEA	10.00
CH2I.C11.LC0.000.S-CHICKPEA	10.00
CH3I.C11.LC0.000.S-CHICKPEA	10.00
CHCD.C11.LC0.000.S-CHICKPEA	10.00
CLFI.C11.LC0.000.S-CAULIFLW	4.00
CS1I.C11.LC0.000.S-CORN	4.00
CS2I.C11.LC0.000.S-CORN	4.00
CS3I.C11.LC0.000.S-CORN	4.00
CT1I.C11.LC0.000.S-COTTON	4.50
CT2I.C11.LC0.S00.S-COTTON	4.50
CT3I.C11.LC0.S00.S-COTTON	4.50
CTOI.C11.LC0.000.S-CONTOMAT	3.00
CW1I.C11.LC0.000.S-COMWHEAT	20.00
CW2I.C11.LC0.N00.S-COMWHEAT	20.00
CW3I.C11.LC0.S00.S-COMWHEAT	20.00
CWHD.C11.LC0.000.S-COMWHEAT	18.00
DBNI.C11.LC0.000.S-DRYBEAN	10.00
DW1I.C11.LC0.000.S-DURWHEAT	20.00
DW2I.C11.LC0.N00.S-DURWHEAT	20.00
DW3I.C11.LC0.S00.S-DURWHEAT	20.00
DWHD.C11.LC0.000.S-DURWHEAT	18.00
EG1I.C11.LC0.000.S-AUBERGIN	2.00
EG2I.C11.LC0.000.S-AUBERGIN	2.00
FTOI.C11.LC0.000.S-FRETOMAT	3.00
GN1I.C11.LC0.000.S-GRUNDNUT	10.00
GN2I.C11.LC0.000.S-GRUNDNUT	10.00
LEKI.C11.LC0.000.S-LEEK	0.40
LNTD.C11.LC0.000.S-LENTIL	9.00
LNTI.C11.LC0.000.S-LENTIL	9.00
LT1I.C11.LC0.000.S-LETTUCE	8.00
LT2I.C11.LC0.000.S-LETTUCE	8.00
LT3I.C11.LC0.000.S-LETTUCE	8.00
MELD.C11.LC0.000.S-MELON	0.65
MELI.C11.LC0.000.S-MELON	0.65
OKRI.C11.LC0.S00.S-OKRA	4.50
ON1I.C11.LC0.000.S-ONION	28.00
ON2I.C11.LC0.000.S-ONION	28.00
ON3I.C11.LC0.000.S-ONION	28.00
ONSI.C11.LC0.000.S-ONION	33.00
PP1I.C11.LC0.000.S-PEPPER	4.00
PP2I.C11.LC0.000.S-PEPPER	4.00
PTEI.C11.LC0.000.S-POTATO	250.00
PTLI.C11.LC0.000.S-POTATO	250.00

SEED COEFFICIENTS	kg/da
RICI.C11.LC0.000.S-RICE	20.00
RYED.C11.LC0.000.S-RYE	18.50
SB1I.C11.LC0.000.S-SOYABEAN	8.00
SB2I.C11.LC0.000.S-SOYABEAN	8.00
SB3I.C11.LC0.000.S-SOYABEAN	8.00
SBTI.C11.LC0.000.S-SUGRBEET	1.00
SESD.C11.LC0.000.S-SESAME	0.10
SG1I.C11.LC0.000.S-SORGHUM	6.00
SG2I.C11.LC0.000.S-SORGHUM	6.00
SG3I.C11.LC0.000.S-SORGHUM	6.00
SN1I.C11.LC0.000.S-SUNFLWER	1.00
SN2I.C11.LC0.000.S-SUNFLWER	1.00
SN3I.C11.LC0.S00.S-SUNFLWER	1.00
SNFD.C11.LC0.000.S-SUNFLWER	1.00
SP1I.C11.LC0.000.S-SPINACH	1.50
SP2I.C11.LC0.000.S-SPINACH	1.50
SP3I.C11.LC0.000.S-SPINACH	1.50
SPSI.C11.LC0.000.S-SPINACH	1.50
SQAI.C11.LC0.000.S-SQUASH	0.40
SS1I.C11.LC0.000.S-SORGHUM	6.00
SS2I.C11.LC0.000.S-SORGHUM	6.00
SS3I.C11.LC0.000.S-SORGHUM	6.00
TOBD.C11.LC2.000.S-TOBACCO	35.00
VCFD.C11.LC0.000.S-VETCH	10.00
VCGD.C11.LC0.000.S-VETCH	10.00
WMLD.C11.LC0.000.S-WATMELON	0.35
WMLI.C11.LC0.000.S-WATMELON	0.35

APPENDIX E 5:

FERTILIZER COEFFICIENTS

(NUTRIENT KG PER DECAR)

FERT. (NUTRIENT)	NITROGEN kg/da	PHOSPHATE kg/da
ALFI.C11.LC0.000	4.0	12.0
BR1I.C11.LC0.000	12.0	8.0
BR2I.C11.LC0.000	12.0	8.0
BRLD.C11.LC0.000	7.0	4.5
CASI.C11.LC0.000	10.0	8.0
CAWI.C11.LC0.000	10.0	8.0
CB1I.C11.LC0.000	12.0	8.0
CB2I.C11.LC0.000	12.0	8.0
CB3I.C11.LC0.000	12.0	8.0
CC1I.C11.LC0.000	12.0	8.0
CC2I.C11.LC0.000	12.0	8.0
CG1I.C11.LC0.000	12.0	8.0
CG2I.C11.LC0.000	12.0	8.0
CG3I.C11.LC0.000	12.0	8.0
CH1I.C11.LC0.000	2.0	6.0
CH2I.C11.LC0.000	2.0	6.0
CH3I.C11.LC0.000	2.0	6.0
CHCD.C11.LC0.00	2.0	6.0
CLFI.C11.LC0.000	12.0	8.0
CS1I.C11.LC0.000	12.0	8.0
CS2I.C11.LC0.000	12.0	8.0
CS3I.C11.LC0.000	12.0	8.0
CT1I.C11.LC0.000	12.0	6.0
CT2I.C11.LC0.S00	12.0	6.0
CT3I.C11.LC0.S00	12.0	6.0
CTOI.C11.LC0.000	12.0	8.0
CW1I.C11.LC0.000	12.0	8.0
CW2I.C11.LC0.N00	12.0	8.0
CW3I.C11.LC0.S00	12.0	8.0
CWHD.C11.LC0.000	9.0	6.0
DBNI.C11.LC0.000	3.0	6.0
DW1I.C11.LC0.000	12.0	8.0
DW2I.C11.LC0.N00	12.0	8.0
DW3I.C11.LC0.S00	12.0	8.0
DWHD.C11.LC0.000	6.0	6.0
EG1I.C11.LC0.000	12.0	8.0
EG2I.C11.LC0.000	12.0	8.0
FTOI.C11.LC0.000	12.0	8.0
GN1I.C11.LC0.000	3.0	10.0
GN2I.C11.LC0.000	3.0	10.0
LEKI.C11.LC0.000	12.0	8.0
LNTD.C11.LC0.000	1.0	6.0
LNTI.C11.LC0.000	2.0	6.0
LT1I.C11.LC0.000	12.0	8.0
LT2I.C11.LC0.000	12.0	8.0
LT3I.C11.LC0.000	12.0	8.0
MELD.C11.LC0.000	8.0	6.0
MELI.C11.LC0.000	10.0	8.0
OKRI.C11.LC0.S00	12.0	8.0
ON1I.C11.LC0.000	10.0	8.0
ON2I.C11.LC0.000	10.0	8.0
ON3I.C11.LC0.000	10.0	8.0
ONSI.C11.LC0.000	8.0	6.0
PP1I.C11.LC0.000	12.0	8.0
PP2I.C11.LC0.000	12.0	8.0
PTEI.C11.LC0.000	16.0	16.0
PTLI.C11.LC0.000	16.0	16.0
RICI.C11.LC0.000	8.0	6.0

F E R T. (NUTRIENT)	NITROGEN kg/da	PHOSPHATE kg/da
RYED.C11.LC0.000	4.0	5.0
SB1I.C11.LC0.000	2.0	8.0
SB2I.C11.LC0.000	2.0	8.0
SB3I.C11.LC0.000	2.0	8.0
SBTI.C11.LC0.000	14.0	14.0
SESD.C11.LC0.000	6.0	6.0
SG1I.C11.LC0.000	12.0	8.0
SG2I.C11.LC0.000	12.0	8.0
SG3I.C11.LC0.000	12.0	8.0
SN1I.C11.LC0.000	16.0	8.0
SN2I.C11.LC0.000	16.0	8.0
SN3I.C11.LC0.S00	16.0	8.0
SNFD.C11.LC0.000	8.0	6.0
SP1I.C11.LC0.000	12.0	8.0
SP2I.C11.LC0.000	12.0	8.0
SP3I.C11.LC0.000	12.0	8.0
SPSI.C11.LC0.000	8.0	6.0
SQAI.C11.LC0.000	12.0	8.0
SS1I.C11.LC0.000	12.0	8.0
SS2I.C11.LC0.000	12.0	8.0
SS3I.C11.LC0.000	12.0	8.0
TOBD.C11.LC2.000		
VCFD.C11.LC0.000	2.0	6.0
VCGD.C11.LC0.000	2.0	6.0
WMLD.C11.LC0.000	8.0	8.0
WMLI.C11.LC0.000	10.0	8.0
APPI.C11.LC0.000	3.0	5.0
APRI.C11.LC0.000	8.7	6.1
CRRI.C11.LC0.000	18.8	18.1
FGDI.C11.LC0.000	1.2	0.8
FGFI.C11.LC0.000	1.2	0.8
GRSI.C11.LC0.000	11.5	5.2
GRTD.C11.LC0.000	4.8	4.8
GRTI.C11.LC0.000	5.0	8.0
GRWD.C11.LC0.000	5.1	6.5
OLOD.C11.LC0.000	0.2	0.1
PARI.C11.LC0.000	7.5	7.5
PCFI.C11.LC0.000	11.1	2.5
PCPI.C11.LC0.000	3.0	9.0
PISD.C11.LC0.000	0.0	0.0
POMI.C11.LC0.000	6.2	6.8
WCRI.C11.LC0.000	5.0	8.0

APPENDIX E 6:

WATER COEFFICIENTS

(MM)

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
ALFI.C11.LC1.N01			20	118	65	77	82	87	92	88	85	82	75	177	83	7
ALFI.C11.LC1.N03			9	93	57	70	75	82	89	85	81	78	70	155	52	
ALFI.C11.LC1.N2A			20	114	64	77	79	82	86	82	78	75	68	160	60	2
ALFI.C11.LC1.N2B			20	114	64	77	79	82	86	82	78	75	68	160	60	2
ALFI.C11.LC1.N4A			4	79	50	61	64	66	69	66	63	61	55	123	40	
ALFI.C11.LC1.N4B			6	81	50	62	64	66	69	66	63	61	55	124	41	
ALFI.C11.LC1.N4C			6	81	50	62	64	66	69	66	63	61	55	124	41	
ALFI.C11.LC1.NOP			32	120	64	76	79	82	86	82	78	75	68	159	68	5
ALFI.C11.LC1.S05		1	49	136	70	82	85	89	94	89	84	30	73	175	82	13
ALFI.C11.LC1.S06			27	124	66	78	80	83	86	82	79	76	67	145	62	5
ALFI.C11.LC1.S07			35	132	67	81	84	89	94	89	83	80	73	173	74	7
ALFI.C11.LC1.S08			22	131	65	74	77	80	83	79	73	69	62	142	61	5
ALFI.C11.LC1.S09			36	132	65	75	78	81	85	81	76	73	65	149	66	5
ALFI.C11.LC1.S10			12	106	60	71	71	71	72	69	66	63	58	139	66	3
ALFI.C11.LC1.S11			10	106	61	73	73	72	73	70	66	63	59	142	66	1
BR1I.C11.LC1.N01		13	58	111	28	8										
BR1I.C11.LC1.N03		7	39	87	25	7										
BR1I.C11.LC1.N2A		8	59	108	28	9										
BR1I.C11.LC1.N2B		8	59	108	28	9										
BR1I.C11.LC1.N4A			20	74	21	7										
BR1I.C11.LC1.N4B		3	29	76	21	7										
BR1I.C11.LC1.N4C		3	29	76	21	7										
BR1I.C11.LC1.NOP		20	73	113	28	8										
BR1I.C11.LC1.S05	6	38	86	48												
BR1I.C11.LC1.S06	1	21	63	49												
BR1I.C11.LC1.S07	3	31	74	52												
BR1I.C11.LC1.S08	2	18	57	45												
BR1I.C11.LC1.S09		23	73	55												
BR1I.C11.LC1.S10		4	41	37												
BR1I.C11.LC1.S11		1	36	35												
BR2I.C11.LC1.N01		14	58	76	4										1	
BR2I.C11.LC1.N03		7	39	57	4											
BR2I.C11.LC1.N2A		8	59	73	5											
BR2I.C11.LC1.N2B		8	59	73	5											
BR2I.C11.LC1.N4A			20	45	3											
BR2I.C11.LC1.N4B			20	45	3											
BR2I.C11.LC1.N4C			20	45	3											
BR2I.C11.LC1.NOP		8	59	73	5											
BR2I.C11.LC1.S05	7	38	72	17											3	3
BR2I.C11.LC1.S06	1	21	49	12											2	
BR2I.C11.LC1.S07	4	31	59	14											2	
BR2I.C11.LC1.S08	3	18	44	15											1	
BR2I.C11.LC1.S09		23	58	16											1	
BR2I.C11.LC1.S10		4	28	6											1	
BR2I.C11.LC1.S11		1	22	5											1	
CASI.C11.LC1.N01			19	124	69	81	86	87	83							
CASI.C11.LC1.N03			21	87	47	56	58	57	54							
CASI.C11.LC1.N2A			20	120	68	81	84	82	77							
CASI.C11.LC1.N2B			20	120	68	81	84	82	77							
CASI.C11.LC1.N4A			3	84	53	65	67	66	62							
CASI.C11.LC1.N4B			5	85	53	65	67	66	62							
CASI.C11.LC1.N4C			5	85	53	65	67	66	62							
CASI.C11.LC1.NOP			30	125	68	80	83	82	77							

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
CASI.C11.LC1.S05		6	64	151	74	82	76									
CASI.C11.LC1.S06			36	137	70	79	74	20								
CASI.C11.LC1.S07		1	45	145	73	82	78		22							
CASI.C11.LC1.S08			35	145	69	74	69									
CASI.C11.LC1.S09			45	144	69	76	72	20								
CASI.C11.LC1.S10			19	118	63	73	66	18								
CASI.C11.LC1.S11			16	118	64	74	67		18							
CAWI.C11.LC1.N01		11	44	5										53	34	2
CAWI.C11.LC1.N03		5	25	4												
CAWI.C11.LC1.N2A		19	58	6										40	24	1
CAWI.C11.LC1.N2B			8	2										35	11	
CAWI.C11.LC1.N4A			8	2										35	11	
CAWI.C11.LC1.N4B		1	17	3										36	11	
CAWI.C11.LC1.N4C		1	17	3										36	11	
CAWI.C11.LC1.NOP		19	58	6										40	24	1
CAWI.C11.LC1.S05	6	33	26											25	35	8
CAWI.C11.LC1.S06		17	23											20	24	1
CAWI.C11.LC1.S07	3	27	30											24	27	3
CAWI.C11.LC1.S08	1	13	10											19	22	2
CAWI.C11.LC1.S09		19	29											20	24	1
CAWI.C11.LC1.S10		3	9											20	26	
CAWI.C11.LC1.S11			5											20	25	
CB1I.C11.LC1.N01												15	27	74	71	12
CB1I.C11.LC1.N03												14	25	64	42	2
CB1I.C11.LC1.N2A												14	25	68	49	5
CB1I.C11.LC1.N2B												14	25	68	49	5
CB1I.C11.LC1.N4A												11	20	50	32	
CB1I.C11.LC1.N4B												11	20	50	32	
CB1I.C11.LC1.N4C												11	20	50	32	
CB1I.C11.LC1.NOP												14	25	68	49	5
CB1I.C11.LC1.S05													19	66	57	22
CB1I.C11.LC1.S06													17	54	42	7
CB1I.C11.LC1.S07													19	64	49	14
CB1I.C11.LC1.S08													16	52	41	10
CB1I.C11.LC1.S09													17	55	44	10
CB1I.C11.LC1.S10													15	52	46	6
CB1I.C11.LC1.S11													15	53	45	4
CB2I.C11.LC1.N01											30	29	30	124	86	10
CB2I.C11.LC1.N03											29	28	28	108	54	2
CB2I.C11.LC1.N2A											28	27	27	112	62	5
CB2I.C11.LC1.N2B											28	27	27	112	62	5
CB2I.C11.LC1.N4A											23	22	22	85	42	
CB2I.C11.LC1.N4B											23	22	22	85	42	
CB2I.C11.LC1.N4C											23	22	22	85	42	
CB2I.C11.LC1.NOP											28	27	27	112	62	5
CB2I.C11.LC1.S05											6	29	27	100	81	15
CB2I.C11.LC1.S06											6	28	25	82	61	6
CB2I.C11.LC1.S07											6	29	27	98	73	10
CB2I.C11.LC1.S08											5	25	23	80	61	7
CB2I.C11.LC1.S09											6	27	24	85	66	8
CB2I.C11.LC1.S10											5	23	21	80	66	5
CB2I.C11.LC1.S11											5	23	22	81	65	3
CB3I.C11.LC1.N01		5	11											81	50	11

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
CG1I.C11.LC1.S06								30	32	42	64	79	74	147	20	
CG1I.C11.LC1.S07								32	35	46	68	82	81	174	23	
CG1I.C11.LC1.S08								29	31	40	59	71	69	142	18	
CG1I.C11.LC1.S09								30	31	41	62	75	72	151	21	
CG1I.C11.LC1.S10								26	26	35	53	65	64	140	21	
CG1I.C11.LC1.S11								27	27	36	54	65	65	143	21	
CG2I.C11.LC1.N01			6	106	76	91	96	102	102	84	65	15				
CG2I.C11.LC1.N03			1	83	67	82	88	96	98	81	62	14				
CG2I.C11.LC1.N2A			6	103	75	90	93	96	95	78	60	13				
CG2I.C11.LC1.N2B			6	103	75	90	93	96	95	78	60	13				
CG2I.C11.LC1.N4A				69	59	72	75	77	76	63	49	11				
CG2I.C11.LC1.N4B				69	59	72	75	77	76	63	49	11				
CG2I.C11.LC1.N4C				69	59	72	75	77	76	63	49	11				
CG2I.C11.LC1.NOP			6	103	75	90	93	96	95	78	60	13				
CG2I.C11.LC1.S05		3	43	152	80	93	97	95	85	66	5					
CG2I.C11.LC1.S06			22	139	76	89	91	88	78	60	5					
CG2I.C11.LC1.S07			30	148	79	92	96	95	85	65	5					
CG2I.C11.LC1.S08			19	146	74	85	87	85	75	58	4					
CG2I.C11.LC1.S09			31	147	74	85	88	86	77	59	4					
CG2I.C11.LC1.S10			11	120	69	81	81	75	65	50	4					
CG2I.C11.LC1.S11			10	120	70	83	83	77	66	51	4					
CG3I.C11.LC1.N01				21	28	49	73	97	112	107	101	88	65	36		
CG3I.C11.LC1.N03				16	24	45	67	92	108	103	96	84	61	33		
CG3I.C11.LC1.N2A				20	28	50	71	92	104	99	93	81	60	33		
CG3I.C11.LC1.N2B				20	28	50	71	92	104	99	93	81	60	33		
CG3I.C11.LC1.N4A				11	21	40	57	74	83	80	75	66	48	26		
CG3I.C11.LC1.N4B				11	21	40	57	74	83	80	75	66	48	26		
CG3I.C11.LC1.N4C				11	21	40	57	74	83	80	75	66	48	26		
CG3I.C11.LC1.NOP				20	28	50	71	92	104	99	93	81	60	33		
CG3I.C11.LC1.S05				63	61	90	101	106	112	100	79	61	8			
CG3I.C11.LC1.S06				55	58	86	95	98	102	92	75	58	8			
CG3I.C11.LC1.S07				58	60	90	101	106	112	100	79	61	8			
CG3I.C11.LC1.S08				60	57	83	92	95	99	88	69	53	7			
CG3I.C11.LC1.S09				61	57	83	92	97	101	90	72	55	8			
CG3I.C11.LC1.S10				41	53	79	85	85	86	77	62	48	7			
CG3I.C11.LC1.S11				40	54	81	86	86	87	78	63	48	7			
CH1I.C11.LC1.N01		14	58	138	57	52	38	11								
CH1I.C11.LC1.N03		7	39	110	51	47	35	11								
CH1I.C11.LC1.N2A		8	59	133	57	52	37	11								
CH1I.C11.LC1.N2B		8	59	133	57	52	37	11								
CH1I.C11.LC1.N4A			20	95	44	42	30	8								
CH1I.C11.LC1.N4B			20	95	44	42	30	8								
CH1I.C11.LC1.N4C			20	95	44	42	30	8								
CH1I.C11.LC1.NOP		8	59	133	57	52	37	11								
CH1I.C11.LC1.S05	8	38	91	104	23											
CH1I.C11.LC1.S06	1	21	67	99	25	3										1
CH1I.C11.LC1.S07	4	31	78	105	25	3										
CH1I.C11.LC1.S08	3	18	62	100	22											
CH1I.C11.LC1.S09		23	77	107	25	3										
CH1I.C11.LC1.S10		4	45	83	22	3										
CH1I.C11.LC1.S11		1	40	82	22	3										
CH2I.C11.LC1.N01		14	58	124	43	38	20									2
CH2I.C11.LC1.N03		7	39	98	38	34	18									

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
CH2I.C11.LC1.N2A		7	59	120	43	39	20									
CH2I.C11.LC1.N2B		7	59	120	43	39	20									
CH2I.C11.LC1.N4A			20	84	33	30	16									
CH2I.C11.LC1.N4B			20	84	33	30	16									
CH2I.C11.LC1.N4C			20	84	33	30	16									
CH2I.C11.LC1.NOP		7	59	120	43	39	20									
CH2I.C11.LC1.S05	8	38	87	79	8											5
CH2I.C11.LC1.S06	1	21	63	70	7											1
CH2I.C11.LC1.S07	4	31	74	74	7											2
CH2I.C11.LC1.S08	3	18	59	76	7											1
CH2I.C11.LC1.S09		23	73	77	7											1
CH2I.C11.LC1.S10		4	42	56	7											
CH2I.C11.LC1.S11		1	37	54	6											
CH3I.C11.LC1.N01		14	58	141	72	74	59	43	10							
CH3I.C11.LC1.N03		7	39	112	63	67	54	40	9							
CH3I.C11.LC1.N2A		8	59	137	71	74	58	41	9							
CH3I.C11.LC1.N2B		8	59	137	71	74	58	41	9							
CH3I.C11.LC1.N4A			20	98	55	59	46	32	7							
CH3I.C11.LC1.N4B			20	98	55	59	46	32	7							
CH3I.C11.LC1.N4C			20	98	55	59	46	32	7							
CH3I.C11.LC1.NOP		8	59	137	71	74	58	41	9							
CH3I.C11.LC1.S05	7	38	91	160	75	74	57	38	4							
CH3I.C11.LC1.S06	1	21	67	147	71	71	54	36	3							
CH3I.C11.LC1.S07	3	31	78	155	74	73	56	38	4							
CH3I.C11.LC1.S08	2	18	62	154	70	68	51	34	3							
CH3I.C11.LC1.S09		23	77	154	70	68	52	35	3							
CH3I.C11.LC1.S10		4	45	127	65	65	48	31	3							
CH3I.C11.LC1.S11		1	40	127	65	67	49	31	3							
CLFI.C11.LC1.N01									17	32	35	47	59	173	86	12
CLFI.C11.LC1.N03									11	21	34	45	55	152	54	2
CLFI.C11.LC1.N2A									16	30	33	43	54	155	71	10
CLFI.C11.LC1.N2B									16	30	33	43	54	157	62	5
CLFI.C11.LC1.N4A									32	24	27	35	43	121	42	
CLFI.C11.LC1.N4B									13	24	27	35	43	121	43	
CLFI.C11.LC1.N4C									13	24	27	35	43	121	43	
CLFI.C11.LC1.NOP									16	30	33	43	54	155	71	10
CLFI.C11.LC1.S05										34	79	83	104	398	215	53
CLFI.C11.LC1.S06										12	29	31	37	129	64	7
CLFI.C11.LC1.S07										33	78	83	103	393	195	34
CLFI.C11.LC1.S08										29	68	72	87	320	161	24
CLFI.C11.LC1.S09										12	28	30	36	133	65	10
CLFI.C11.LC1.S10										10	24	26	32	124	69	6
CLFI.C11.LC1.S11										26	62	66	83	322	173	9
CS1I.C11.LC1.N01								31	34	42	59	76	80	196	58	
CS1I.C11.LC1.N03								30	33	41	57	72	75	172	40	
CS1I.C11.LC1.N2A								30	31	39	55	69	73	176	49	
CS1I.C11.LC1.N2B								30	31	39	55	70	73	177	45	
CS1I.C11.LC1.N4A								24	25	32	45	57	59	137	32	
CS1I.C11.LC1.N4B								24	25	32	45	56	59	137	32	
CS1I.C11.LC1.N4C								24	25	32	45	56	59	137	32	
CS1I.C11.LC1.NOP								30	31	39	55	69	73	176	49	
CS1I.C11.LC1.S05								33	35	46	68	82	81	185	10	
CS1I.C11.LC1.S06								30	32	42	64	79	74	153	10	

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
CT2I.C11.LC1.S08			3	58	44	64	79	94	103	97	90	85	75	145	23	
CT2I.C11.LC1.S09			6	58	44	65	80	95	105	99	94	89	79	153	25	
CT2I.C11.LC1.S10				39	41	62	74	83	89	85	81	77	70	142	26	
CT2I.C11.LC1.S11				37	41	63	75	85	90	86	82	78	71	145	26	
CT3I.C11.LC1.S05				43	32	49	66	86	107	110	104	99	91	208	68	
CT3I.C11.LC1.S06				38	30	47	63	79	98	101	98	95	83	173	51	
CT3I.C11.LC1.S07				40	31	48	66	86	107	110	104	99	91	206	60	
CT3I.C11.LC1.S08				43	30	45	60	77	95	97	91	86	77	169	50	
CT3I.C11.LC1.S09				43	30	45	61	78	97	99	95	90	81	178	54	
CT3I.C11.LC1.S10				28	27	44	56	68	82	85	81	78	72	165	55	
CT3I.C11.LC1.S11				27	28	45	57	70	83	86	82	79	73	169	54	
CTOI.C11.LC1.N01			6	82	67	92	104	110	117	112	107	103	90	136		
CTOI.C11.LC1.N03				63	59	83	95	104	112	107	102	98	84	121		
CTOI.C11.LC1.N2A			5	79	66	91	100	104	109	104	99	95	83	124		
CTOI.C11.LC1.N2B			5	79	66	91	100	104	109	104	99	95	83	124		
CTOI.C11.LC1.N4A				50	52	73	81	84	87	83	80	77	66	96		
CTOI.C11.LC1.N4B				52	52	73	81	84	87	83	80	77	66	96		
CTOI.C11.LC1.N4C				52	52	73	81	84	87	83	80	77	66	96		
CTOI.C11.LC1.NOP			15	84	66	91	100	104	109	104	99	95	82	123		
CTOI.C11.LC1.S05		3	39	149	89	103	107	113	119	113	98	77	55	4		
CTOI.C11.LC1.S06		14	131	84	99	101	105	109	104	93	76	52	7			
CTOI.C11.LC1.S07			21	138	88	103	107	113	119	113	98	79	57	8		
CTOI.C11.LC1.S08			14	143	83	94	97	101	105	99	86	67	47	3		
CTOI.C11.LC1.S09		22	138	82	95	98	103	107	102	90	72	51	7			
CTOI.C11.LC1.S10			5	112	76	90	90	90	91	87	77	62	45	6		
CTOI.C11.LC1.S11			4	112	78	92	92	91	92	88	78	63	46	6		
CW1I.C11.LC1.N01		7	58	139	58	50	3	3								
CW1I.C11.LC1.N03		3	39	110	51	45	30	2								
CW1I.C11.LC1.N2A		7	59	127	44	35	6									
CW1I.C11.LC1.N2B		7	59	127	44	35	6									
CW1I.C11.LC1.N4A			20	90	33	27	5									
CW1I.C11.LC1.N4B		1	29	98	45	40	26	2								
CW1I.C11.LC1.N4C		1	29	98	45	40	26	2								
CW1I.C11.LC1.NOP		10	73	140	58	49	31	2								
CW1I.C11.LC1.S05	3	38	91	101	11											
CW1I.C11.LC1.S06		20	67	101	21											
CW1I.C11.LC1.S07		29	78	107	21											
CW1I.C11.LC1.S08		18	62	97	11											
CW1I.C11.LC1.S09		22	77	108	21											
CW1I.C11.LC1.S10		4	45	85	19											
CW1I.C11.LC1.S11		1	40	84	19											
CW2I.C11.LC1.N01		13	58	104	24	3									1	
CW2I.C11.LC1.N03		7	39	81	21	3										
CW2I.C11.LC1.N2A		8	59	101	24	4										
CW2I.C11.LC1.N2B		8	59	101	24	4										
CW2I.C11.LC1.N4A			20	68	18	3										
CW2I.C11.LC1.N4B			20	68	18	3										
CW2I.C11.LC1.N4C			20	68	18	3										
CW2I.C11.LC1.NOP		8	59	101	24	4										
CW3I.C11.LC1.S05	5	38	88	65											2	1
CW3I.C11.LC1.S06		21	64	57											1	
CW3I.C11.LC1.S07	3	31	75	60											1	
CW3I.C11.LC1.S08	1	18	59	62												

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
CS1I.C11.LC1.S07								32	35	46	68	82	80	183	12	
CS1I.C11.LC1.S08								29	31	40	59	71	69	149	8	
CS1I.C11.LC1.S09								30	31	41	62	75	72	158	11	
CS1I.C11.LC1.S10								26	26	35	53	65	64	147	11	
CS1I.C11.LC1.S11								27	27	36	54	65	65	150	11	
CS2I.C11.LC1.N01			6	102	74	91	96	102	107	95	47					
CS2I.C11.LC1.N03			1	79	65	82	88	96	103	92	45					
CS2I.C11.LC1.N2A			6	98	73	90	93	96	100	89	44					
CS2I.C11.LC1.N2B			6	98	73	90	93	96	100	89	44					
CS2I.C11.LC1.N4A				66	57	72	75	77	80	71	35					
CS2I.C11.LC1.N4B				66	57	72	75	77	80	71	35					
CS2I.C11.LC1.N4C				66	57	72	75	77	80	71	35					
CS2I.C11.LC1.NOP			6	98	73	90	93	96	100	89	44					
CS2I.C11.LC1:S05		3	43	152	80	93	97	98	94	32						
CS2I.C11.LC1.S06			22	139	76	89	91	90	86	29						
CS2I.C11.LC1.S07			30	148	79	92	96	97	94	32						
CS2I.C11.LC1.S08			19	146	74	85	87	87	83	28						
CS2I.C11.LC1.S09			31	147	74	85	88	89	85	29						
CS2I.C11.LC1.S10			11	120	69	81	81	78	72	25						
CS2I.C11.LC1.S11			10	120	70	83	83	79	73	25						
CS3I.C11.LC1.N01				21	28	48	71	95	112	107	102	95	76	6		
CS3I.C11.LC1.N03				16	24	44	65	90	108	103	98	90	71	5		
CS3I.C11.LC1.N2A				20	28	49	69	90	104	99	95	87	70	5		
CS3I.C11.LC1.N2B				20	28	49	69	90	104	99	95	87	70	5		
CS3I.C11.LC1.N4A				11	21	39	55	72	83	80	77	71	56	4		
CS3I.C11.LC1.N4B				11	21	39	55	72	83	80	77	71	56	4		
CS3I.C11.LC1.N4C				11	21	39	55	72	83	80	77	71	56	4		
CS3I.C11.LC1.NOP				20	28	49	69	90	104	99	95	87	70	5		
CS3I.C11.LC1.S05				63	61	90	101	106	112	102	87	37				
CS3I.C11.LC1.S06				55	58	86	95	98	102	94	82	35				
CS3I.C11.LC1.S07				58	60	90	101	106	112	102	86	36				
CS3I.C11.LC1.S08				60	57	83	92	95	99	90	76	32				
CS3I.C11.LC1.S09				61	57	83	92	97	101	92	79	33				
CS3I.C11.LC1.S10				41	53	79	85	85	86	79	68	29				
CS3I.C11.LC1.S11				40	54	81	86	86	87	80	69	29				
CT1I.C11.LC1.N01			2	50	41	61	76	93	109	107	102	99	90	204	70	
CT1I.C11.LC1.N03				35	36	55	70	88	105	103	98	94	84	179	42	
CT1I.C11.LC1.N2A			2	48	41	61	74	88	101	99	95	91	83	184	49	
CT1I.C11.LC1.N2B			2	48	41	61	74	88	101	99	95	91	83	184	49	
CT1I.C11.LC1.N4A				24	31	49	60	71	81	80	77	74	66	142	32	
CT1I.C11.LC1.N4B				26	31	49	60	71	81	80	77	74	66	143	33	
CT1I.C11.LC1.N4C				26	31	49	60	71	81	80	77	74	66	143	33	
CT1I.C11.LC1.NOP			4	53	41	61	74	88	101	99	94	91	82	183	57	
CT1I.C11.LC1.S05			25	94	70	94	103	108	114	108	96	82	67	74		
CT1I.C11.LC1.S06			8	83	65	88	97	100	104	99	93	83	65	80		
CT1I.C11.LC1.S07			13	77	62	86	99	108	114	108	101	91	75	119		
CT1I.C11.LC1.S08			6	90	65	86	93	97	101	95	84	72	57	60		
CT1I.C11.LC1.S09			14	79	59	79	91	99	103	98	92	83	67	103		
CT1I.C11.LC1.S10			1	58	54	76	84	86	87	83	79	72	59	95	70	
CT1I.C11.LC1.S11				56	55	77	85	88	88	84	80	73	60	97		
CT2I.C11.LC1.S05			9	60	47	70	88	105	116	110	103	98	89	179	31	
CT2I.C11.LC1.S06			4	52	45	67	83	97	106	101	97	94	81	149	24	
CT2I.C11.LC1.S07			6	56	47	70	87	105	116	110	103	98	88	178	28	

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
CW3I.C11.LC1.S09		23	74	63												
CW3I.C11.LC1.S10		4	42	44												
CW3I.C11.LC1.S11		1	37	42												
DBNI.C11.LC1.N01			8	129	75	89	79	50	3							
DBNI.C11.LC1.N03			3	103	66	80	73	47	3							
DBNI.C11.LC1.N2A			8	125	74	88	77	48	2							
DBNI.C11.LC1.N2B			8	125	74	88	77	48	2							
DBNI.C11.LC1.N4A				88	58	71	62	38	2							
DBNI.C11.LC1.N4B				90	59	71	62	38	2							
DBNI.C11.LC1.N4C				90	59	71	62	38	2							
DBNI.C11.LC1.NOP			8	125	74	88	77	48	2							
DW1I.C11.LC1.N01		7	58	139	58	50	32	3								
DW1I.C11.LC1.N03		3	39	110	51	45	30	2								
DW1I.C11.LC1.N2A		7	59	127	44	35	6									
DW1I.C11.LC1.N2B		7	59	127	44	35	6									
DW1I.C11.LC1.N4A			20	90	33	27	5									
DW1I.C11.LC1.N4B		1	29	98	45	40	26	2								
DW1I.C11.LC1.N4C		1	29	98	45	40	26	2								
DW1I.C11.LC1.NOP		10	73	140	58	49	31	2								
DW1I.C11.LC1.S05	3	38	91	101	12											
DW1I.C11.LC1.S06		20	67	101	21											
DW1I.C11.LC1.S07		29	78	107	21											
DW1I.C11.LC1.S08		18	62	97	11											
DW1I.C11.LC1.S09		22	77	108	21											
DW1I.C11.LC1.S10		4	45	85	19											
DW1I.C11.LC1.S11		1	40	84	19											
DW2I.C11.LC1.N01		13	58	104	24	3									1	
DW2I.C11.LC1.N03		7	39	81	21	3										
DW2I.C11.LC1.N2A		8	59	101	24	4										
DW2I.C11.LC1.N2B		8	59	101	24	4										
DW2I.C11.LC1.N4A			20	68	18	3										
DW2I.C11.LC1.N4B			20	68	18	3										
DW2I.C11.LC1.N4C			20	68	18	3										
DW2I.C11.LC1.NOP		8	59	101	24	4										
DW3I.C11.LC1.S05	5	38	88	65											2	1
DW3I.C11.LC1.S06		21	64	57											1	
DW3I.C11.LC1.S07	3	31	75	60											1	
DW3I.C11.LC1.S08	1	18	59	62												
DW3I.C11.LC1.S09		23	74	63												
DW3I.C11.LC1.S10		4	42	44												
DW3I.C11.LC1.S11		1	37	42												
EG1I.C11.LC1.N01			7	66	49	66	76	88	97	93	89	86	78	182	52	
EG1I.C11.LC1.N03			1	49	43	59	70	83	94	89	85	82	73	159	35	
EG1I.C11.LC1.N2A			7	63	49	66	74	83	90	86	82	79	72	164	39	
EG1I.C11.LC1.N2B			7	63	49	66	74	83	90	86	82	79	72	164	39	
EG1I.C11.LC1.N4A				36	37	52	59	67	72	69	67	64	58	127	28	
EG1I.C11.LC1.N4B				36	37	52	59	67	72	69	67	64	58	127	28	
EG1I.C11.LC1.N4C				36	37	52	59	67	72	69	67	64	58	127	28	
EG1I.C11.LC1.NOP			7	63	49	66	74	83	90	86	82	79	72	164	39	
EG1I.C11.LC1.S05		3	35	106	65	83	89	94	99	94	88	84	77	169	9	
EG1I.C11.LC1.S06			14	96	61	79	84	87	91	87	83	80	70	138		
EG1I.C11.LC1.S07			21	95	61	78	87	94	99	94	88	84	77	169	15	
EG1I.C11.LC1.S08			10	102	60	75	81	84	88	83	66	62	55	116	6	

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
EG1I.C11.LC1.S09			22	96	58	73	80	86	90	85	80	76	69	146	13	
EG1I.C11.LC1.S10			4	74	53	70	74	75	76	72	69	66	61	136	13	
EG1I.C11.LC1.S11			2	73	54	71	75	76	77	73	70	67	62	138	13	
EG2I.C11.LC1.N01			3	46	37	54	65	79	93	96	94	90	82	195	82	
EG2I.C11.LC1.N03				32	32	49	60	74	89	92	89	86	77	171	51	
EG2I.C11.LC1.N2A			3	44	37	54	64	74	86	89	86	83	75	176	59	
EG2I.C11.LC1.N2B			3	44	37	54	64	74	86	89	86	83	75	176	59	
EG2I.C11.LC1.N4A				21	28	43	51	60	69	71	70	67	61	136	39	
EG2I.C11.LC1.N4B				21	28	43	51	60	69	71	70	67	61	136	39	
EG2I.C11.LC1.N4C				21	28	43	51	60	69	71	70	67	61	136	39	
EG2I.C11.LC1.NOP			3	44	37	54	64	74	86	89	86	83	75	176	59	
EG2I.C11.LC1.S05			27	75	52	70	81	95	104	99	92	88	81	182	35	
EG2I.C11.LC1.S06			8	66	50	67	77	87	95	91	87	84	74	151	28	
EG2I.C11.LC1.S07			14	70	52	69	81	94	104	99	92	88	81	180	33	
EG2I.C11.LC1.S08			6	72	49	64	74	85	92	87	81	76	69	147	27	
EG2I.C11.LC1.S09			15	73	49	64	74	86	94	89	84	80	72	155	29	
EG2I.C11.LC1.S10			1	52	45	62	69	75	79	76	72	69	64	145	29	
EG2I.C11.LC1.S11				50	46	63	70	76	81	77	73	70	65	148	30	
FTOI.C11.LC1.N01			6	82	67	92	104	110	117	112	107	103	90	136		
FTOI.C11.LC1.N03				63	59	83	95	104	112	107	102	98	84	121		
FTOI.C11.LC1.N2A			5	79	66	91	100	104	109	104	99	95	83	124		
FTOI.C11.LC1.N2B			5	79	66	91	100	104	109	104	99	95	83	124		
FTOI.C11.LC1.N4A				50	52	73	81	84	87	83	80	77	66	96		
FTOI.C11.LC1.N4B				52	52	73	81	84	87	83	80	77	66	96		
FTOI.C11.LC1.N4C				52	52	73	81	84	87	83	80	77	66	96		
FTOI.C11.LC1.NOP			15	84	66	91	100	104	109	104	99	95	82	123		
FTOI.C11.LC1.S05		3	39	149	89	103	107	113	119	113	98	77	55	4		
FTOI.C11.LC1.S06		14	131	84	99	101	105	109	104	93	76	52	7			
FTOI.C11.LC1.S07			21	138	88	103	107	113	119	113	98	79	57	8		
FTOI.C11.LC1.S08			14	143	83	94	97	101	105	99	86	67	47	3		
FTOI.C11.LC1.S09		22	138	82	95	98	103	107	102	90	72	51	7			
FTOI.C11.LC1.S10			5	112	76	90	90	90	91	87	77	62	45	6		
FTOI.C11.LC1.S11			4	112	78	92	92	91	92	88	78	63	46	6		
GN1I.C11.LC1.N01			2	66	57	80	90	96	102	94	77	59				
GN1I.C11.LC1.N03				49	51	72	83	91	98	90	74	57				
GN1I.C11.LC1.N2A			7	63	57	80	88	91	95	87	71	55				
GN1I.C11.LC1.N2B			7	63	57	80	88	91	95	87	71	55				
GN1I.C11.LC1.N4A				36	44	64	70	73	76	70	58	44				
GN1I.C11.LC1.N4B				36	44	64	70	73	76	70	58	44				
GN1I.C11.LC1.N4C				36	44	64	70	73	76	70	58	44				
GN1I.C11.LC1.NOP			7	63	57	80	88	91	95	87	71	55				
GN1I.C11.LC1.S05						19	40	47	65	80	88	88	81	182	26	
GN1I.C11.LC1.S06						18	38	43	59	74	83	84	74	157	29	
GN1I.C11.LC1.S07							39	42	54	70	83	88	81	190	47	
GN1I.C11.LC1.S08						17	36	42	57	70	77	76	69	147	20	
GN1I.C11.LC1.S09							36	38	49	64	76	80	72	164	42	
GN1I.C11.LC1.S10							34	34	42	54	66	69	64	152	43	
GN1I.C11.LC1.S11							34	34	42	55	66	70	65	155	44	
GN2I.C11.LC1.N01				21	27	45	62	82	99	98	94	90	79	109		
GN2I.C11.LC1.N03				16	24	40	57	78	95	94	89	86	74	97		
GN2I.C11.LC1.N2A				20	27	45	61	78	92	91	86	83	73	99		
GN2I.C11.LC1.N2B				20	27	45	61	78	92	91	86	83	73	99		
GN2I.C11.LC1.N4A				11	20	36	49	62	74	73	70	67	58	77		

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
GN2I.C11.LC1.N4B				11	20	36	49	62	74	73	70	67	58	77		
GN2I.C11.LC1.N4C				11	20	36	49	62	74	73	70	67	58	77		
GN2I.C11.LC1.NOP				20	27	45	61	78	92	91	86	83	73	99		
GN2I.C11.LC1.S05				62	54	81	93	98	103	98	86	70	40			
GN2I.C11.LC1.S06				55	51	77	88	91	94	90	81	67	37			
GN2I.C11.LC1.S07				58	53	80	92	98	103	98	86	69	40			
GN2I.C11.LC1.S08				60	51	74	84	88	91	86	75	60	34			
GN2I.C11.LC1.S09				61	51	74	85	89	93	88	78	63	36			
GN2I.C11.LC1.S10				41	47	71	78	78	79	75	67	55	32			
GN2I.C11.LC1.S11				39	47	72	80	79	80	76	68	55	32			
LEKI.C11.LC1.N01									15	28	27	34	45	161	86	12
LEKI.C11.LC1.N03									9	18	25	32	42	141	54	2
LEKI.C11.LC1.N2A									13	26	25	31	41	144	127	37
LEKI.C11.LC1.N2B									13	26	25	31	41	144	127	37
LEKI.C11.LC1.N4A									11	21	20	25	33	112	42	1
LEKI.C11.LC1.N4B									11	21	20	25	33	112	43	
LEKI.C11.LC1.N4C									11	21	20	25	33	112	43	
LEKI.C11.LC1.NOP									10	19	24	31	41	144	71	10
LEKI.C11.LC1.S05										14	26	25	30	135	84	22
LEKI.C11.LC1.S06										13	25	24	28	111	61	7
LEKI.C11.LC1.S07										9	26	25	30	133	76	14
LEKI.C11.LC1.S08										12	23	22	25	108	63	10
LEKI.C11.LC1.S09										13	24	23	27	115	68	10
LEKI.C11.LC1.S10										11	21	20	24	107	69	6
LEKI.C11.LC1.S11										11	21	20	24	109	68	4
LNTI.C11.LC1.N01		14	58	91	23	1										1
LNTI.C11.LC1.N03		7	39	70	20	1										
LNTI.C11.LC1.N2A		8	59	88	23	2										
LNTI.C11.LC1.N2B		8	59	88	23	2										
LNTI.C11.LC1.N4A			20	57	17	1										
LNTI.C11.LC1.N4B		3	29	59	17	1										
LNTI.C11.LC1.N4C		3	29	59	17	1										
LNTI.C11.LC1.NOP		22	73	93	23											
LNTI.C11.LC1.S05	8	38	73	28												
LNTI.C11.LC1.S06	1	21	56	37												
LNTI.C11.LC1.S07	4	31	66	40												
LNTI.C11.LC1.S08	3	18	44	26												
LNTI.C11.LC1.S09		23	66	43												
LNTI.C11.LC1.S10		4	35	27												
LNTI.C11.LC1.S11		1	29	25												
LT1I.C11.LC1.N01		8	16												12	
LT1I.C11.LC1.N03		3	8												3	
LT1I.C11.LC1.N2A		4	16												5	
LT1I.C11.LC1.N2B		4	16												5	
LT1I.C11.LC1.N4A															2	
LT1I.C11.LC1.N4B			4												2	
LT1I.C11.LC1.N4C			4												2	
LT1I.C11.LC1.NOP		15	24												9	
LT1I.C11.LC1.S05	4	30														4
LT1I.C11.LC1.S06		14	6													
LT1I.C11.LC1.S07	2	23	7													1
LT1I.C11.LC1.S08		10														
LT1I.C11.LC1.S09		16	7													

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
LT1I.C11.LC1.S10		1	2													
LT1I.C11.LC1.S11			1													
LT2I.C11.LC1.N01		7	3												33	
LT2I.C11.LC1.N03		2	1												16	
LT2I.C11.LC1.N2A		4	2												19	
LT2I.C11.LC1.N2B		4	2												19	
LT2I.C11.LC1.N4A															11	
LT2I.C11.LC1.N4B															11	
LT2I.C11.LC1.N4C															11	
LT2I.C11.LC1.NOP		4	2												19	
LT2I.C11.LC1.S05	4	9													15	4
LT2I.C11.LC1.S06		2													9	
LT2I.C11.LC1.S07	2	6													10	1
LT2I.C11.LC1.S08		2													8	
LT2I.C11.LC1.S09		2													9	
LT2I.C11.LC1.S10															10	
LT2I.C11.LC1.S11															8	
LT3I.C11.LC1.N01		8	46													2
LT3I.C11.LC1.N03		3	28													
LT3I.C11.LC1.N2A		4	47													
LT3I.C11.LC1.N2B		4	47													
LT3I.C11.LC1.N4A			12													
LT3I.C11.LC1.N4B			12													
LT3I.C11.LC1.N4C			12													
LT3I.C11.LC1.NOP		4	47													
LT3I.C11.LC1.S05	4	31	55													1
LT3I.C11.LC1.S06		14	37													
LT3I.C11.LC1.S07	2	23	45													
LT3I.C11.LC1.S08		11	32													
LT3I.C11.LC1.S09		16	44													
LT3I.C11.LC1.S10		1	20													
LT3I.C11.LC1.S11			16													
MELI.C11.LC1.N01				41	36	56	71	87	97	93	89	85	74	65		
MELI.C11.LC1.N03				29	32	50	65	82	94	89	85	82	69	59		
MELI.C11.LC1.N2A				44	36	55	69	82	91	86	82	79	67	59		
MELI.C11.LC1.N2B				39	36	56	69	82	90	86	82	79	67	60		
MELI.C11.LC1.N4A				19	27	45	55	66	72	69	67	64	54	47		
MELI.C11.LC1.N4B				20	27	45	56	66	73	69	67	64	54	47		
MELI.C11.LC1.N4C				20	27	45	56	66	73	69	67	64	54	47		
MELI.C11.LC1.NOP				44	36	55	69	82	91	86	82	79	67	59		
MELI.C11.LC1.S05			21	82	63	83	89	94	99	93	79	50				
MELI.C11.LC1.S06			6	81	63	81	84	87	91	86	76	55				
MELI.C11.LC1.S07			9	74	59	80	89	94	99	94	85	71	27			
MELI.C11.LC1.S08			5	78	58	76	81	84	88	82	69	43				
MELI.C11.LC1.S09			11	76	56	74	82	86	90	85	77	65	24			
MELI.C11.LC1.S10				55	52	71	75	75	76	72	66	56	21			
MELI.C11.LC1.S11				54	53	73	77	76	77	73	67	57	22			
OKRI.C11.LC1.S05			19	117	81	95	98	104	109	104	97	90	76	130	14	
OKRI.C11.LC1.S06			6	106	77	90	93	96	100	95	91	88	73	116	15	
OKRI.C11.LC1.S07			7	78	54	63	65	67	70	67	97	92	82	151	22	
OKRI.C11.LC1.S08			5	111	76	86	89	93	97	91	85	79	64	104	9	
OKRI.C11.LC1.S09			10	97	72	87	90	94	98	93	88	84	73	130	20	
OKRI.C11.LC1.S10				75	67	83	83	82	83	80	76	73	65	122	22	

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
OKRI.C11.LC1.S11				74	68	85	84	84	84	81	77	73	66	124	22	
ON1I.C11.LC1.N01		8	48	124	64	73	74	75	61					53	46	9
ON1I.C11.LC1.N03		3	29	98	56	66	68	71	59					45	24	1
ON1I.C11.LC1.N2A		4	48	120	63	73	72	71	57					48	29	3
ON1I.C11.LC1.N2B		4	48	120	63	73	72	71	57					48	29	3
ON1I.C11.LC1.N4A			12	84	49	58	58	57	45					91	44	
ON1I.C11.LC1.N4B			20	86	50	59	58	57	45					36	17	
ON1I.C11.LC1.N4C			20	86	50	59	58	57	45					36	17	
ON1I.C11.LC1.NOP		15	62	125	63	72	71	71	57					47	37	7
ON1I.C11.LC1.S05	4	31	80	133	60	53								25	38	16
ON1I.C11.LC1.S06		14	56	124	58	66	19							20	27	3
ON1I.C11.LC1.S07	2	23	66	132	60	68	20							24	30	7
ON1I.C11.LC1.S08		11	51	128	56	49								19	25	5
ON1I.C11.LC1.S09		16	66	131	57	63	19							20	28	4
ON1I.C11.LC1.S10		1	35	106	53	60	17							20	29	2
ON1I.C11.LC1.S11			30	106	54	62	18							20	28	
ON2I.C11.LC1.N01		8	48	122	60	68	68	21					19	90	75	12
ON2I.C11.LC1.N03		3	29	96	52	61	63	20					17	78	45	2
ON2I.C11.LC1.N2A		4	48	118	59	68	66	20					17	82	53	5
ON2I.C11.LC1.N2B		4	48	118	59	68	66	20					17	82	53	5
ON2I.C11.LC1.N4A			12	82	46	54	53	16					14	61	34	
ON2I.C11.LC1.N4B			12	82	46	54	53	16					14	61	34	
ON2I.C11.LC1.N4C			12	82	46	54	53	16					14	61	34	
ON2I.C11.LC1.NOP		4	48	118	59	68	66	20					17	82	53	5
ON2I.C11.LC1.S05	4	31	79	123	33									72	63	22
ON2I.C11.LC1.S06		14	55	111	31									59	47	7
ON2I.C11.LC1.S07	2	23	65	118	32									70	55	14
ON2I.C11.LC1.S08		11	50	118	31									57	45	10
ON2I.C11.LC1.S09		16	65	119	31									61	50	10
ON2I.C11.LC1.S10		1	34	95	28									57	50	6
ON2I.C11.LC1.S11			29	94	29									58	49	4
ON3I.C11.LC1.N01		8	48	124	65	77	80	81	83	75				14	32	2
ON3I.C11.LC1.N03		3	29	98	57	70	74	77	80	72				11	14	
ON3I.C11.LC1.N2A		4	48	120	64	77	78	77	77	70				12	17	
ON3I.C11.LC1.N2B		4	48	120	64	77	78	77	77	70				12	17	
ON3I.C11.LC1.N4A			12	84	50	61	62	62	62	56				9	10	
ON3I.C11.LC1.N4B			12	84	50	61	62	62	62	56				9	10	
ON3I.C11.LC1.N4C			12	84	50	61	62	62	62	56				9	10	
ON3I.C11.LC1.NOP		4	48	120	64	77	78	77	77	70				12	17	
ON3I.C11.LC1.S05	4	31	80	142	66	73	72	36							30	8
ON3I.C11.LC1.S06		14	56	129	63	70	68	33							20	1
ON3I.C11.LC1.S07	2	23	66	137	65	72	71	36							23	3
ON3I.C11.LC1.S08		11	51	136	62	67	65	32							18	2
ON3I.C11.LC1.S09		16	66	137	62	67	66	32							20	1
ON3I.C11.LC1.S10		1	35	111	57	64	61	28							22	
ON3I.C11.LC1.S11			30	105	58	66	62	29							20	
ONSI.C11.LC1.N01			34	133	69	81	86	90	91	82	74	14				
ONSI.C11.LC1.N03			20	106	60	74	79	85	88	79	8	13				
ONSI.C11.LC1.N2A			34	128	68	81	84	85	85	76	69	12				
ONSI.C11.LC1.N2B			34	128	68	81	84	85	85	76	69	12				
ONSI.C11.LC1.N4A			11	91	53	65	67	68	68	61	56	10				
ONSI.C11.LC1.N4B			14	93	53	65	67	68	68	61	56	10				
ONSI.C11.LC1.N4C			14	93	53	65	67	68	68	61	56	10				

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
ONSI.C11.LC1.NOP			48	134	68	80	83	85	85	76	68	12				
ONSI.C11.LC1.S05		8	81	151	74	83	82	81	40							
ONSI.C11.LC1.S06		2	57	138	70	80	78	76	59							
ONSI.C11.LC1.S07		3	64	147	73	84	85	84	83	15						
ONSI.C11.LC1.S08			52	145	69	76	74	72	35							
ONSI.C11.LC1.S09		2	63	146	69	78	78	77	75	13						
ONSI.C11.LC1.S10			32	120	63	75	72	67	64	11						
ONSI.C11.LC1.S11			28	119	64	76	73	68	64	12						
PP1I.C11.LC1.N01				39	31	47	61	77	91	90	86	83	76	181	79	2
PP1I.C11.LC1.N03				28	27	43	57	73	88	87	82	80	71	159	49	
PP1I.C11.LC1.N2A				37	32	48	60	73	85	84	80	77	70	107	57	
PP1I.C11.LC1.N2B				37	32	48	60	73	85	84	80	77	70	107	57	
PP1I.C11.LC1.N4A				18	23	38	48	59	68	67	65	62	56	126	38	
PP1I.C11.LC1.N4B				19	24	38	48	59	68	67	65	62	56	126	39	
PP1I.C11.LC1.N4C				19	24	38	48	59	68	67	65	62	56	126	39	
PP1I.C11.LC1.NOP				41	32	47	59	73	85	84	80	76	69	162	65	
PP1I.C11.LC1.S05			19	73	56	77	86	91	96	91	85	81	73	119		
PP1I.C11.LC1.S06			6	54	45	64	76	84	88	84	81	78	69	136		
PP1I.C11.LC1.S07			8	57	46	66	80	91	96	91	85	81	74	162		
PP1I.C11.LC1.S08			5	69	52	70	78	82	85	80	60	57	52	113		
PP1I.C11.LC1.S09			8	60	44	61	74	83	87	82	78	74	67	140		
PP1I.C11.LC1.S10				40	40	59	69	73	73	70	67	64	59	130		
PP1I.C11.LC1.S11				39	41	60	69	74	74	71	68	65	60	133		
PP2I.C11.LC1.N01				16	23	30	39	55	73	83	85	83	75	179	87	9
PP2I.C11.LC1.N03				12	20	27	36	52	70	80	81	79	70	157	54	1
PP2I.C11.LC1.N2A				15	24	31	38	52	67	77	79	76	69	162	63	4
PP2I.C11.LC1.N2B				15	24	31	38	52	67	77	79	76	69	162	63	4
PP2I.C11.LC1.N4A				9	17	24	30	42	54	62	64	62	55	125	42	
PP2I.C11.LC1.N4B				9	17	24	30	42	54	62	64	62	55	125	42	
PP2I.C11.LC1.N4C				9	17	24	30	42	54	62	64	62	55	125	42	
PP2I.C11.LC1.NOP				15	24	31	38	52	67	77	79	76	69	162	63	4
PP2I.C11.LC1.S05				46	33	48	63	79	93	91	85	81	75	178	67	
PP2I.C11.LC1.S06				40	31	47	59	73	85	84	81	78	69	148	51	
PP2I.C11.LC1.S07				42	32	48	62	78	93	91	85	81	74	176	61	
PP2I.C11.LC1.S08				45	31	44	57	71	82	80	75	71	63	144	50	
PP2I.C11.LC1.S09				45	31	45	57	72	84	82	78	74	67	152	54	
PP2I.C11.LC1.S10				30	28	43	53	63	71	70	67	64	59	142	55	
PP2I.C11.LC1.S11				28	28	44	54	64	72	71	68	65	60	144	55	
PTEI.C11.LC1.N01			7	116	75	88	92	88	62							
PTEI.C11.LC1.N03			2	93	67	81	86	85	60							
PTEI.C11.LC1.N2A			7	114	75	89	91	85	58							
PTEI.C11.LC1.N2B			7	114	75	89	91	85	58							
PTEI.C11.LC1.N4A				79	59	71	73	68	47							
PTEI.C11.LC1.N4B				81	59	72	73	68	47							
PTEI.C11.LC1.N4C				81	59	72	73	68	47							
PTEI.C11.LC1.NOP			7	114	75	89	91	85	58							
PTEI.C11.LC1.S05		3	40	152	80	91	86	59								
PTEI.C11.LC1.S06			20	139	76	87	81	54								
PTEI.C11.LC1.S07			27	148	79	91	85	59								
PTEI.C11.LC1.S08			16	146	74	83	77	53								
PTEI.C11.LC1.S09			28	147	74	84	78	53								
PTEI.C11.LC1.S10			9	120	69	80	72	47								
PTEI.C11.LC1.S11			8	120	70	82	73	48								

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
PTLI.C11.LC1.N01			8	122	76	90	95	98	96	81	33					
PTLI.C11.LC1.N03			2	96	67	81	87	93	92	78	32					
PTLI.C11.LC1.N2A			7	117	75	89	92	93	89	75	31					
PTLI.C11.LC1.N2B			7	117	75	89	92	93	89	75	31					
PTLI.C11.LC1.N4A				82	59	71	74	75	71	60	25					
PTLI.C11.LC1.N4B				84	59	72	74	75	71	60	25					
PTLI.C11.LC1.N4C				84	59	72	74	75	71	60	25					
PTLI.C11.LC1.NOP			7	117	75	89	92	93	89	75	31					
PTLI.C11.LC1.S05		3	41	155	81	94	92	86	79							
PTLI.C11.LC1.S06			20	142	76	89	87	80	72							
PTLI.C11.LC1.S07			28	150	80	93	92	86	79							
PTLI.C11.LC1.S08			16	148	75	86	83	77	70							
PTLI.C11.LC1.S09			28	149	75	86	84	78	71							
PTLI.C11.LC1.S10			10	123	70	82	77	69	60							
PTLI.C11.LC1.S11			8	123	71	84	79	70	61							
RICI.C11.LC1.N01			27	376	116	131	139	149	157	152	147	132	106	79		
RICI.C11.LC1.N03			26	355	107	122	131	143	152	147	142	128	100	73		
RICI.C11.LC1.N2A			27	372	115	131	136	143	149	144	139	124	99	73		
RICI.C11.LC1.N2B			27	372	115	131	136	143	149	144	139	124	99	73		
RICI.C11.LC1.N4A			26	344	99	113	117	122	127	123	121	107	84	59		
RICI.C11.LC1.N4B			26	345	99	113	117	123	127	123	120	107	84	60		
RICI.C11.LC1.N4C			26	345	99	113	117	123	127	123	120	107	84	60		
RICI.C11.LC1.NOP			27	376	115	130	136	142	149	144	139	124	98	72		
RICI.C11.LC1.S05		6	311	292	128	143	147	147	138	112	42					
RICI.C11.LC1.S06		6	298	278	123	139	141	139	128	104	40					
RICI.C11.LC1.S07			286	286	125	142	147	153	147	122	95					
RICI.C11.LC1.S08		6	288	285	121	134	137	136	125	100	38					
RICI.C11.LC1.S09			286	284	120	134	138	143	136	112	88					
RICI.C11.LC1.S10			273	256	114	130	130	130	120	99	77					
RICI.C11.LC1.S11			272	256	115	131	132	131	122	100	78					
SB1I.C11.LC1.N01								29	31	43	67	84	82	196	70	
SB1I.C11.LC1.N03								27	30	42	64	80	77	172	43	
SB1I.C11.LC1.N2A								25	29	40	62	77	75	177	49	
SB1I.C11.LC1.N2B								25	29	40	62	77	75	177	49	
SB1I.C11.LC1.N4A								22	23	32	51	63	61	104	33	
SB1I.C11.LC1.N4B								22	23	32	51	63	61	137	34	
SB1I.C11.LC1.N4C								22	23	32	51	63	61	137	34	
SB1I.C11.LC1.NOP								27	29	40	62	77	75	176	57	
SB1I.C11.LC1.S05								30	32	47	76	88	81	186	22	
SB1I.C11.LC1.S06								28	29	43	72	84	74	155	19	
SB1I.C11.LC1.S07								29	32	47	76	88	81	185	22	
SB1I.C11.LC1.S08								27	28	41	67	76	69	150	16	
SB1I.C11.LC1.S09								27	29	43	70	80	72	159	19	
SB1I.C11.LC1.S10								24	24	36	60	69	64	148	20	
SB1I.C11.LC1.S11								24	25	37	61	70	64	151	20	
SB2I.C11.LC1.N01			9	124	72	86	90	96	100	82	57	10				
SB2I.C11.LC1.N03			3	98	64	77	83	91	96	79	54	10				
SB2I.C11.LC1.N2A			8	120	72	85	88	91	93	76	53	10				
SB2I.C11.LC1.N2B			8	120	72	85	88	91	93	76	53	10				
SB2I.C11.LC1.N4A				83	56	68	70	73	74	61	43	8				
SB2I.C11.LC1.N4B				83	56	68	70	73	74	61	43	8				
SB2I.C11.LC1.N4C				83	56	68	70	73	74	61	43	8				
SB2I.C11.LC1.NOP			8	120	72	85	88	91	93	76	53	10				

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
SB2I.C11.LC1.S05		3	54	153	75	88	91	91	79	53						
SB2I.C11.LC1.S06			33	140	71	84	86	84	72	49						
SB2I.C11.LC1.S07			41	148	74	87	91	90	78	53						
SB2I.C11.LC1.S08			28	146	70	80	82	81	69	47						
SB2I.C11.LC1.S09			41	147	70	80	83	82	71	48						
SB2I.C11.LC1.S10			17	121	65	77	77	72	60	41						
SB2I.C11.LC1.S11			14	121	66	78	78	73	61	41						
SB3I.C11.LC1.N01				23	31	57	84	101	107	102	98	90	66	25		
SB3I.C11.LC1.N03				17	27	51	77	95	103	98	93	86	62	23		
SB3I.C11.LC1.N2A				18	31	57	81	95	100	95	90	83	60	23		
SB3I.C11.LC1.N2B				18	31	57	81	95	100	95	90	83	60	23		
SB3I.C11.LC1.N4A				12	23	45	65	77	80	76	73	68	48	18		
SB3I.C11.LC1.N4B				12	23	45	65	77	80	76	73	68	48	18		
SB3I.C11.LC1.N4C				12	23	45	65	77	80	76	73	68	48	18		
SB3I.C11.LC1.NOP				18	31	57	81	95	100	95	90	83	60	23		
SB3I.C11.LC1.S05				65	63	89	97	102	107	102	83	54	3			
SB3I.C11.LC1.S06				57	60	85	91	94	98	93	78	51	2			
SB3I.C11.LC1.S07				50	62	89	96	101	107	102	82	53	3			
SB3I.C11.LC1.S08				62	59	82	87	91	95	89	72	46	2			
SB3I.C11.LC1.S09				63	59	82	88	92	97	92	75	49	2			
SB3I.C11.LC1.S10				43	54	78	81	81	82	78	65	42	2			
SB3I.C11.LC1.S11				41	55	80	83	82	83	79	65	43	2			
SBTI.C11.LC1.N01			6	84	63	85	95	101	107	102	98	95	86	189	37	
SBTI.C11.LC1.N03				64	56	77	87	95	103	98	90	87	78	166	27	
SBTI.C11.LC1.N2A			5	81	67	85	92	95	100	95	90	87	78	171	30	
SBTI.C11.LC1.N2B			5	81	67	85	92	95	100	95	90	87	78	171	30	
SBTI.C11.LC1.N4A				51	49	68	74	77	80	76	73	71	69	132	22	
SBTI.C11.LC1.N4B				53	49	68	74	77	80	76	73	71	63	133	22	
SBTI.C11.LC1.N4C				53	49	68	74	77	80	76	73	71	63	133	22	
SBTI.C11.LC1.NOP			15	86	63	84	91	95	100	95	90	87	78	169	32	
SBTI.C11.LC1.S05		3	42	146	81	95	98	104	109	101	91	83	73	32		
SBTI.C11.LC1.S06			21	134	77	90	93	96	100	93	86	79	67	27		
SBTI.C11.LC1.S07			24	136	80	94	98	103	109	102	93	85	74	64		
SBTI.C11.LC1.S08			17	140	76	86	89	93	97	89	68	61	52	22		
SBTI.C11.LC1.S09			25	132	76	87	90	94	98	92	85	77	66	56		
SBTI.C11.LC1.S10			7	107	70	83	83	82	83	79	73	67	59	51		
SBTI.C11.LC1.S11			6	107	71	85	84	84	84	80	74	68	60	52		
SG1I.C11.LC1.N01								29	31	41	61	80	82	196	92	7
SG1I.C11.LC1.N03								27	30	39	58	76	77	172	58	
SG1I.C11.LC1.N2A								27	29	38	56	73	75	177	67	3
SG1I.C11.LC1.N2B								27	29	38	56	73	75	177	67	3
SG1I.C11.LC1.N4A								22	23	31	46	60	61	137	45	
SG1I.C11.LC1.N4B								22	23	31	46	60	61	137	47	
SG1I.C11.LC1.N4C								22	23	31	46	60	61	137	47	
SG1I.C11.LC1.NOP								27	29	38	56	73	75	176	75	6
SG1I.C11.LC1.S05								30	32	42	60	78	81	194	68	
SG1I.C11.LC1.S06								28	29	38	57	75	74	161	51	
SG1I.C11.LC1.S07								29	32	41	60	78	81	192	60	
SG1I.C11.LC1.S08								27	28	36	53	68	69	157	50	
SG1I.C11.LC1.S09								27	29	37	55	71	72	166	54	
SG1I.C11.LC1.S10								24	24	32	47	61	64	111	55	
SG1I.C11.LC1.S11								24	25	32	48	62	65	157	54	
SG2I.C11.LC1.N01			7	99	71	87	91	97	103	95	79	62	22			

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
SG2I.C11.LC1.N03			1	77	62	78	84	92	99	91	76	59	20			
SG2I.C11.LC1.N2A			6	96	70	86	89	92	96	88	73	57	20			
SG2I.C11.LC1.N2B			6	96	70	86	89	92	96	88	73	57	20			
SG2I.C11.LC1.N4A				63	55	69	71	74	77	71	59	46	16			
SG2I.C11.LC1.N4B				63	55	69	71	74	77	71	59	46	16			
SG2I.C11.LC1.N4C				63	55	69	71	74	77	71	59	46	16			
SG2I.C11.LC1.NOP			6	96	70	86	89	92	96	88	73	57	20			
SG2I.C11.LC1.S05		3	42	142	75	88	91	96	96	78	59	13				
SG2I.C11.LC1.S06			21	130	71	84	86	89	87	72	56	13				
SG2I.C11.LC1.S07			29	137	74	87	91	96	96	78	59	13				
SG2I.C11.LC1.S08			17	136	70	80	82	86	85	69	52	11				
SG2I.C11.LC1.S09			30	137	70	80	83	87	86	71	54	12	48	9		
SG2I.C11.LC1.S10			10	111	65	77	77	76	73	60	47	10				
SG2I.C11.LC1.S11			8	109	66	78	78	78	74	61	47	10				
SG3I.C11.LC1.N01				22	28	49	70	92	107	102	98	95	82	117		
SG3I.C11.LC1.N03				17	25	44	64	87	103	98	93	90	77	65		
SG3I.C11.LC1.N2A				21	29	49	68	87	100	95	90	87	75	107		
SG3I.C11.LC1.N2B				21	29	49	68	87	100	95	90	87	75	107		
SG3I.C11.LC1.N4A				11	21	39	54	70	80	76	73	71	60	82		
SG3I.C11.LC1.N4B				11	21	39	54	70	80	76	73	71	60	82		
SG3I.C11.LC1.N4C				11	21	39	54	70	80	76	73	71	60	82		
SG3I.C11.LC1.NOP				21	29	49	68	87	100	95	90	87	75	107		
SG3I.C11.LC1.S05				64	56	83	97	103	108	103	90	73	53	11		
SG3I.C11.LC1.S06				56	53	79	91	95	99	94	85	70	49	9		
SG3I.C11.LC1.S07				60	55	82	96	102	108	102	90	73	53	11		
SG3I.C11.LC1.S08				61	52	76	87	92	96	90	79	64	45	9		
SG3I.C11.LC1.S09				62	52	76	88	93	98	92	82	67	48	9		
SG3I.C11.LC1.S10				42	46	70	79	82	83	79	75	67	5			
SG3I.C11.LC1.S11				41	49	75	83	83	84	80	72	58	43	9		
SN1I.C11.LC1.N01			6	90	70	91	99	106	112	107	102	93	70	56		
SN1I.C11.LC1.N03				69	61	82	91	100	108	103	98	89	65	50		
SN1I.C11.LC1.N2A			5	87	69	91	96	100	104	99	95	86	64	51		
SN1I.C11.LC1.N2B			5	87	69	91	96	100	104	99	95	86	64	51		
SN1I.C11.LC1.N4A				56	54	72	77	80	83	80	77	70	51	40		
SN1I.C11.LC1.N4B				58	54	73	77	80	84	80	77	70	51	40		
SN1I.C11.LC1.N4C				58	54	73	77	80	84	80	77	70	51	40		
SN1I.C11.LC1.NOP			15	92	69	90	96	100	104	99	94	86	64	50		
SN1I.C11.LC1.S05		3	43	153	85	99	103	108	114	96	69	42				
SN1I.C11.LC1.S06			22	140	81	94	97	100	104	89	65	42	2			
SN1I.C11.LC1.S07			25	139	84	98	102	108	114	103	80	55	18			
SN1I.C11.LC1.S08			18	147	79	90	93	97	101	84	59	36				
SN1I.C11.LC1.S09			26	138	79	91	94	99	103	93	73	50	16			
SN1I.C11.LC1.S10			8	113	74	87	86	86	87	80	63	43	14	56		
SN1I.C11.LC1.S11			6	112	75	88	88	88	88	81	64	44	15			
SN2I.C11.LC1.N01			4	56	51	74	91	105	112	107	102	99	83	99		
SN2I.C11.LC1.N03				41	45	67	84	99	108	103	98	94	78	88		
SN2I.C11.LC1.N2A			3	54	51	74	89	99	104	99	95	91	76	90		
SN2I.C11.LC1.N2B			3	54	51	74	89	99	104	99	95	91	76	90		
SN2I.C11.LC1.N4A				29	39	59	71	80	83	80	77	74	61	70		
SN2I.C11.LC1.N4B				29	39	59	71	80	83	80	77	74	61	70		
SN2I.C11.LC1.N4C				29	39	59	71	80	83	80	77	74	61	70		
SN2I.C11.LC1.NOP			3	54	51	74	89	99	104	99	95	91	76	90		
SN2I.C11.LC1.S05			29	119	79	96	99	105	110	105	88	63	39	2		

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
SN2I.C11.LC1.S06			10	108	75	91	93	97	101	96	83	61	35	2		
SN2I.C11.LC1.S07			16	115	78	95	99	104	110	104	88	63	38	2		
SN2I.C11.LC1.S08			7	114	74	87	90	94	97	92	77	55	33	1		
SN2I.C11.LC1.S09			17	115	74	88	91	95	99	94	80	58	34	2		
SN2I.C11.LC1.S10			3	91	68	84	83	83	84	80	69	50	30	1		
SN2I.C11.LC1.S11			1	90	69	85	85	85	85	82	70	50	31	1		
SN3I.C11.LC1.S05			16	79	61	85	99	108	114	108	101	96	81	95		
SN3I.C11.LC1.S06			7	70	58	81	93	100	104	99	96	92	74	80		
SN3I.C11.LC1.S07			10	74	60	84	98	108	114	108	101	96	80	94		
SN3I.C11.LC1.S08			5	75	57	77	90	97	101	95	89	84	69	77		
SN3I.C11.LC1.S09			11	76	57	78	90	99	103	98	92	88	72	81		
SN3I.C11.LC1.S10			1	55	53	74	83	86	87	83	79	76	64	75		
SN3I.C11.LC1.S11				54	54	76	85	88	88	84	80	77	65	77		
SP1I.C11.LC1.N01														24	48	12
SP1I.C11.LC1.N03														20	25	2
SP1I.C11.LC1.N2A														21	30	5
SP1I.C11.LC1.N2B														21	30	5
SP1I.C11.LC1.N4A														15	17	
SP1I.C11.LC1.N4B														15	18	
SP1I.C11.LC1.N4C														15	18	
SP1I.C11.LC1.NOP														22	38	10
SP1I.C11.LC1.S05															39	20
SP1I.C11.LC1.S06															28	6
SP1I.C11.LC1.S07															26	9
SP1I.C11.LC1.S08															25	8
SP1I.C11.LC1.S09															23	6
SP1I.C11.LC1.S10															25	2
SP1I.C11.LC1.S11															23	
SP2I.C11.LC1.N01														77	60	
SP2I.C11.LC1.N03														67	40	
SP2I.C11.LC1.N2A														70	45	
SP2I.C11.LC1.N2B														70	45	
SP2I.C11.LC1.N4A														52	32	
SP2I.C11.LC1.N4B														52	32	
SP2I.C11.LC1.N4C														52	32	
SP2I.C11.LC1.NOP														70	45	
SP2I.C11.LC1.S05														29	64	5
SP2I.C11.LC1.S06														23	47	2
SP2I.C11.LC1.S07														28	56	4
SP2I.C11.LC1.S08														22	46	3
SP2I.C11.LC1.S09														24	50	3
SP2I.C11.LC1.S10														23	51	2
SP2I.C11.LC1.S11														23	50	1
SP3I.C11.LC1.N01															25	
SP3I.C11.LC1.N03															10	
SP3I.C11.LC1.N2A															13	
SP3I.C11.LC1.N2B															13	
SP3I.C11.LC1.N4A															7	
SP3I.C11.LC1.N4B															7	
SP3I.C11.LC1.N4C															7	
SP3I.C11.LC1.NOP															13	
SP3I.C11.LC1.S05															15	3
SP3I.C11.LC1.S06															6	

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
SP3I.C11.LC1.S07															7	1
SP3I.C11.LC1.S08															6	1
SP3I.C11.LC1.S09															6	
SP3I.C11.LC1.S10															6	
SP3I.C11.LC1.S11															5	
SPSI.C11.LC1.N01			28	71												
SPSI.C11.LC1.N03			15	53												
SPSI.C11.LC1.N2A			36	60												
SPSI.C11.LC1.N2B			36	60												
SPSI.C11.LC1.N4A			26	118												
SPSI.C11.LC1.N4B			10	46												
SPSI.C11.LC1.N4C			10	46												
SPSI.C11.LC1.NOP			41	72												
SPSI.C11.LC1.S05		12	27													
SPSI.C11.LC1.S06		18	51													
SPSI.C11.LC1.S07		2	50													
SPSI.C11.LC1.S08		3	14													
SPSI.C11.LC1.S09			78													
SPSI.C11.LC1.S10			22													
SPSI.C11.LC1.S11			19													
SQAI.C11.LC1.N01				41	39	60	76	87	92	85	73					
SQAI.C11.LC1.N03				29	34	54	70	82	89	82	69					
SQAI.C11.LC1.N2A				39	39	60	74	82	86	79	67					
SQAI.C11.LC1.N2B				39	39	60	74	82	86	79	67					
SQAI.C11.LC1.N4A				20	30	48	59	66	69	64	54					
SQAI.C11.LC1.N4B				21	30	48	59	66	69	64	54					
SQAI.C11.LC1.N4C				21	30	48	59	66	69	64	54					
SQAI.C11.LC1.NOP				43	39	59	73	82	86	79	67					
SQAI.C11.LC1.S05			19	98	68	82	84	81	22							
SQAI.C11.LC1.S06			6	86	63	78	80	77	34							
SQAI.C11.LC1.S07			9	81	63	81	84	86	81							
SQAI.C11.LC1.S08			5	94	63	74	76	72	19							
SQAI.C11.LC1.S09			10	83	60	75	78	78	73							
SQAI.C11.LC1.S10				62	55	71	71	69	62							
SQAI.C11.LC1.S11				60	56	73	74	70	63							
SS1I.C11.LC1.N01								29	31	41	61	80	82	196	59	
SS1I.C11.LC1.N03								27	30	39	58	76	77	172	41	
SS1I.C11.LC1.N2A								27	29	38	56	73	75	176	46	
SS1I.C11.LC1.N2B								27	29	38	56	73	75	176	46	
SS1I.C11.LC1.N4A								22	23	31	46	60	61	137	33	
SS1I.C11.LC1.N4B								22	23	31	46	60	61	137	33	
SS1I.C11.LC1.N4C								22	23	31	46	60	61	137	33	
SS1I.C11.LC1.NOP								27	29	38	56	73	75	176	49	
SS1I.C11.LC1.S05								30	32	42	60	78	81	194	38	
SS1I.C11.LC1.S06								28	29	38	57	75	74	161	30	
SS1I.C11.LC1.S07								29	32	41	60	78	81	192	36	
SS1I.C11.LC1.S08								27	28	36	53	68	69	157	30	
SS1I.C11.LC1.S09								27	29	37	55	71	72	157	32	
SS1I.C11.LC1.S10								24	24	32	47	61	64	153	31	
SS1I.C11.LC1.S11								24	25	32	48	62	65	157	32	
SS2I.C11.LC1.N01			6	97	70	87	91	97	103	99	52					
SS2I.C11.LC1.N03			1	75	61	78	84	92	99	95	50					
SS2I.C11.LC1.N2A			6	93	69	86	89	92	96	92	48					

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
SS2I.C11.LC1.N2B			6	93	69	86	89	92	96	92	48					
SS2I.C11.LC1.N4A				62	54	69	71	74	77	74	39					
SS2I.C11.LC1.N4B				62	54	69	71	74	77	74	39					
SS2I.C11.LC1.N4C				62	54	69	71	74	77	74	39					
SS2I.C11.LC1.NOP			6	93	69	86	89	92	96	92	48					
SS2I.C11.LC1.S05		3	41	137	75	88	91	96	101	89						
SS2I.C11.LC1.S06			21	125	71	84	86	89	92	81						
SS2I.C11.LC1.S07			28	132	74	87	91	96	101	88						
SS2I.C11.LC1.S08			16	131	70	80	84	86	90	78						
SS2I.C11.LC1.S09			29	132	70	80	83	87	91	80						
SS2I.C11.LC1.S10			9	107	65	77	77	76	77	68						
SS2I.C11.LC1.S11			8	106	66	78	78	78	78	69						
SS3I.C11.LC1.N01				22	28	49	70	92	107	102	98	95	82			
SS3I.C11.LC1.N03				17	25	44	64	87	103	98	93	90	76			
SS3I.C11.LC1.N2A				21	29	49	68	87	100	95	90	87	75			
SS3I.C11.LC1.N2B				21	29	49	68	87	100	95	90	87	75			
SS3I.C11.LC1.N4A				11	21	39	54	70	80	76	73	71	60			
SS3I.C11.LC1.N4B				11	21	39	54	70	80	76	73	71	60			
SS3I.C11.LC1.N4C				11	21	39	54	70	80	76	73	71	60			
SS3I.C11.LC1.NOP				21	29	49	68	87	100	95	90	87	75			
SS3I.C11.LC1.S05				64	54	79	94	103	108	103	96	85	6			
SS3I.C11.LC1.S06				56	51	76	89	95	99	94	91	81	6			
SS3I.C11.LC1.S07				59	53	79	94	102	108	102	96	85	6			
SS3I.C11.LC1.S08				61	50	72	85	92	96	90	84	73	6			
SS3I.C11.LC1.S09				62	50	73	86	93	98	92	87	77	6			
SS3I.C11.LC1.S10				42	46	70	79	82	83	79	75	67	5			
SS3I.C11.LC1.S11				40	47	71	81	83	84	80	76	67	5			
WMLI.C11.LC1.N01				45	41	65	81	92	97	93	85	72	11			
WMLI.C11.LC1.N03				32	36	58	75	87	94	89	81	69	10			
WMLI.C11.LC1.N2A				48	41	64	78	86	91	86	78	56	10			
WMLI.C11.LC1.N2B				43	41	65	79	87	90	86	78	66	10			
WMLI.C11.LC1.N4A				21	31	52	63	70	72	69	63	54	8			
WMLI.C11.LC1.N4B				22	32	52	63	70	73	69	63	54	8			
WMLI.C11.LC1.N4C				22	32	52	63	70	73	69	63	54	8			
WMLI.C11.LC1.NOP				48	41	64	78	86	91	86	78	56	10			
WMLI.C11.LC1.S05			13	75	63	84	89	94	96	81	26					
WMLI.C11.LC1.S06			6	66	58	79	84	87	89	79	52					
WMLI.C11.LC1.S07			8	70	61	82	89	94	98	86	55					
WMLI.C11.LC1.S08			5	72	58	76	81	84	84	71	23					
WMLI.C11.LC1.S09			9	73	57	76	82	86	88	77	50					
WMLI.C11.LC1.S10				52	53	73	75	75	75	66	43					
WMLI.C11.LC1.S11				50	54	74	77	76	76	67	44					
APPI.C11.LC1.N01			21	99	59	73	80	89	96	93	88	82	72	158	63	3
APPI.C11.LC1.N03			8	77	52	66	74	84	93	89	83	78	67	139	37	
APPI.C11.LC1.N2A			20	96	58	73	78	84	90	86	81	75	66	143	43	
APPI.C11.LC1.N2B			20	96	58	73	78	84	90	86	81	75	66	143	43	
APPI.C11.LC1.N4A			3	64	45	58	62	67	72	69	66	61	53	110	27	
APPI.C11.LC1.N4B			5	66	45	58	63	67	72	69	66	61	53	110	28	
APPI.C11.LC1.N4C			5	66	45	58	63	67	72	69	66	61	53	110	28	
APPI.C11.LC1.NOP			20	96	58	73	78	84	90	86	81	75	66	143	43	
APRI.C11.LC1.N01			17	89	53	66	72	80	87	84	80	77	68	146	53	1
APRI.C11.LC1.N03			6	69	47	60	67	75	84	81	76	73	63	128	30	

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
APRI.C11.LC1.N2A			17	86	53	66	71	75	81	78	74	71	62	133	35	
APRI.C11.LC1.N2B			17	86	53	66	71	75	81	78	74	71	62	133	35	
APRI.C11.LC1.N4A			1	55	41	53	57	60	65	62	60	57	50	102	22	
APRI.C11.LC1.N4B			3	57	41	53	57	61	65	63	60	57	50	102	22	
APRI.C11.LC1.N4C			3	57	41	53	57	61	65	63	60	57	50	102	22	
APRI.C11.LC1.NOP			17	86	53	66	71	75	81	78	74	71	62	133	35	
APRI.C11.LC1.S05		5	47	106	57	70	75	82	89	85	79	75	67	145	55	5
APRI.C11.LC1.S06			26	96	55	67	71	76	81	78	75	72	61	120	40	1
APRI.C11.LC1.S07		2	33	102	57	69	75	82	88	85	79	75	66	143	47	2
APRI.C11.LC1.S08			19	102	54	64	68	73	78	74	69	65	56	117	39	1
APRI.C11.LC1.S09		1	34	103	54	64	69	75	80	76	72	68	59	124	42	8
APRI.C11.LC1.S10			9	80	50	62	64	65	68	65	62	59	53	116	43	
APRI.C11.LC1.S11			7	79	50	63	65	66	69	66	63	60	53	118	42	
CRRI.C11.LC1.N01			21	99	59	73	80	89	96	93	88	82	72	158	63	3
CRRI.C11.LC1.N03			8	77	52	66	74	84	93	89	83	78	67	139	37	
CRRI.C11.LC1.N2A			20	96	58	73	78	84	90	86	81	75	66	143	43	
CRRI.C11.LC1.N2B			20	96	58	73	78	84	90	86	81	75	66	143	43	
CRRI.C11.LC1.N4A			3	64	45	58	62	67	72	69	66	61	53	110	27	
CRRI.C11.LC1.N4B			5	66	45	58	63	67	72	69	66	61	53	110	28	
CRRI.C11.LC1.N4C			5	66	45	58	63	67	72	69	66	61	53	110	28	
CRRI.C11.LC1.NOP			20	96	58	73	78	84	90	86	81	75	66	143	43	
CRRI.C11.LC1.S05		6	51	116	63	77	83	91	98	94	87	80	71	157	63	9
CRRI.C11.LC1.S06			29	105	60	74	79	84	90	87	82	76	65	130	47	3
CRRI.C11.LC1.S07		2	38	112	62	76	83	91	98	94	86	80	70	155	55	4
CRRI.C11.LC1.S08			23	112	59	70	75	81	87	83	76	69	60	127	46	3
CRRI.C11.LC1.S09		1	38	112	59	71	76	83	89	85	79	73	63	134	50	3
CRRI.C11.LC1.S10			12	89	54	68	70	72	75	72	68	63	56	125	50	
CRRI.C11.LC1.S11			9	88	55	69	71	74	76	73	69	63	56	127	50	
FGDI.C11.LC1.N01			4	56	38	50	55	61	67	65	62	59	52	110	32	
FGDI.C11.LC1.N03				40	34	45	51	58	65	63	59	57	49	97	17	
FGDI.C11.LC1.N2A			4	53	39	50	54	58	63	60	57	55	48	100	19	
FGDI.C11.LC1.N2B			4	53	39	50	54	58	63	60	57	55	48	100	19	
FGDI.C11.LC1.N4A				28	29	40	43	47	50	49	47	44	38	76	12	
FGDI.C11.LC1.N4B				30	29	40	43	47	50	49	47	44	38	76	12	
FGDI.C11.LC1.N4C				30	29	40	43	47	50	49	47	44	38	76	12	
FGDI.C11.LC1.NOP			4	53	39	50	54	58	63	60	57	55	48	100	19	
FGDI.C11.LC1.S05			24	71	42	53	58	63	69	66	62	58	51	110	36	2
FGDI.C11.LC1.S06			7	63	40	51	54	59	63	60	58	55	47	91	25	
FGDI.C11.LC1.S07			11	67	41	52	57	63	69	66	61	58	51	108	29	
FGDI.C11.LC1.S08			5	68	39	48	52	57	61	40	54	50	43	88	23	
FGDI.C11.LC1.S09			13	69	39	49	53	58	62	42	56	53	46	93	26	
FGDI.C11.LC1.S10			1	49	36	47	49	50	52	35	48	46	40	88	28	
FGDI.C11.LC1.S11				47	37	48	50	51	53	36	49	46	41	89	26	
FGFI.C11.LC1.N01			4	56	38	50	55	61	67	65	62	59	52	110	32	
FGFI.C11.LC1.N03				40	34	45	51	58	65	63	59	57	49	97	17	
FGFI.C11.LC1.N2A			4	53	39	50	54	58	63	60	57	55	48	100	19	
FGFI.C11.LC1.N2B			4	53	39	50	54	58	63	60	57	55	48	100	19	
FGFI.C11.LC1.N4A				28	29	40	43	47	50	49	47	44	38	76	12	
FGFI.C11.LC1.N4B				30	29	40	43	47	50	49	47	44	38	76	12	
FGFI.C11.LC1.N4C				30	29	40	43	47	50	49	47	44	38	76	12	
FGFI.C11.LC1.NOP			4	53	39	50	54	58	63	60	57	55	48	100	19	
FGFI.C11.LC1.S05			24	71	42	53	58	63	69	66	62	58	51	110	36	2
FGFI.C11.LC1.S06			7	63	40	51	54	59	63	60	58	55	47	91	25	

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
FGFI.C11.LC1.S07			11	67	41	52	57	63	69	66	61	58	51	108	29	
FGFI.C11.LC1.S08			5	68	39	48	52	57	61	40	54	50	43	88	23	
FGFI.C11.LC1.S09			13	69	39	49	53	58	62	42	56	53	46	93	26	
FGFI.C11.LC1.S10			1	49	36	47	49	50	52	35	48	46	40	88	28	
FGFI.C11.LC1.S11				47	37	48	50	51	53	36	49	46	41	89	26	
GRSI.C11.LC1.N01			4	56	38	50	55	61	67	65	62	59	52	110	32	
GRSI.C11.LC1.N03				40	34	45	51	58	65	63	59	57	49	97	17	
GRSI.C11.LC1.N2A			4	53	39	50	54	58	63	60	57	55	48	100	19	
GRSI.C11.LC1.N2B			4	53	39	50	54	58	63	60	57	55	48	100	19	
GRSI.C11.LC1.N4A				28	29	40	43	47	50	49	47	44	38	76	12	
GRSI.C11.LC1.N4B				30	29	40	43	47	50	49	47	44	12	76	12	
GRSI.C11.LC1.N4C				30	29	40	43	47	50	49	47	44	55	76	12	
GRSI.C11.LC1.NOP			4	53	39	50	54	58	63	60	57	55	48	100	19	
GRSI.C11.LC1.S05			24	71	42	53	58	63	69	66	62	58	51	110	36	2
GRSI.C11.LC1.S06			7	63	40	51	54	59	63	60	58	55	47	91	25	
GRSI.C11.LC1.S07			11	67	41	52	57	63	69	66	61	58	51	108	29	
GRSI.C11.LC1.S08			5	68	39	48	52	57	61	58	54	50	43	88	23	
GRSI.C11.LC1.S09			13	69	39	49	53	58	62	59	56	53	46	93	26	
GRSI.C11.LC1.S10			1	49	36	47	49	50	52	51	48	46	40	88	28	
GRSI.C11.LC1.S11				47	37	48	50	51	53	51	49	46	41	89	26	
GRTI.C11.LC1.N01			4	56	38	50	55	61	67	65	62	59	52	110	32	
GRTI.C11.LC1.N03				40	34	45	51	58	65	63	59	57	49	97	17	
GRTI.C11.LC1.N2A			4	53	39	50	54	58	63	60	57	55	48	100	19	
GRTI.C11.LC1.N2B			4	53	39	50	54	58	63	60	57	55	48	100	19	
GRTI.C11.LC1.N4A				28	29	40	43	47	50	49	47	44	38	76	12	
GRTI.C11.LC1.N4B				30	29	40	43	47	50	49	47	44	12	76	12	
GRTI.C11.LC1.N4C				30	29	40	43	47	50	49	47	44	55	76	12	
GRTI.C11.LC1.NOP			4	53	39	50	54	58	63	60	57	55	48	100	19	
GRTI.C11.LC1.S05			24	71	42	53	58	63	69	66	62	58	51	110	36	2
GRTI.C11.LC1.S06			7	63	40	51	54	59	63	60	58	55	47	91	25	
GRTI.C11.LC1.S07			11	67	41	52	57	63	69	66	61	58	51	108	29	
GRTI.C11.LC1.S08			5	68	39	48	52	57	61	58	54	50	43	88	23	
GRTI.C11.LC1.S09			13	69	39	49	53	58	62	59	56	53	46	93	26	
GRTI.C11.LC1.S10			1	49	36	47	49	50	52	51	48	46	40	88	28	
GRTI.C11.LC1.S11				47	37	48	50	51	53	51	49	46	41	89	26	
PARI.C11.LC1.N01			17	89	53	66	72	80	87	84	80	77	68	146	53	1
PARI.C11.LC1.N03			6	69	47	60	67	75	84	81	76	73	63	128	30	
PARI.C11.LC1.N2A			17	86	53	66	71	75	81	78	74	71	62	133	35	
PARI.C11.LC1.N2B			17	86	53	66	71	75	81	78	74	71	62	133	35	
PARI.C11.LC1.N4A			1	55	41	53	57	60	65	62	60	57	50	102	22	
PARI.C11.LC1.N4B			3	57	41	53	57	61	65	63	60	57	50	102	22	
PARI.C11.LC1.N4C			3	57	41	53	57	61	65	63	60	57	50	102	22	
PARI.C11.LC1.NOP			17	86	53	66	71	75	81	78	74	71	62	133	35	
PCFI.C11.LC1.N01			17	89	53	66	72	80	87	84	80	77	68	146	53	1
PCFI.C11.LC1.N03			6	69	47	60	67	75	84	81	76	73	63	128	30	
PCFI.C11.LC1.N2A			17	86	53	66	71	75	81	78	74	71	62	133	35	
PCFI.C11.LC1.N2B			17	86	53	66	71	75	81	78	74	71	62	133	35	
PCFI.C11.LC1.N4A			1	55	41	53	57	60	65	62	60	57	50	102	22	
PCFI.C11.LC1.N4B			3	57	41	53	57	61	65	63	60	57	50	102	22	
PCFI.C11.LC1.N4C			3	57	41	53	57	61	65	63	60	57	50	102	22	
PCFI.C11.LC1.NOP			17	86	53	66	71	75	81	78	74	71	62	133	35	
PCFI.C11.LC1.S05		5	47	106	57	70	75	82	89	85	79	75	67	145	55	5
PCFI.C11.LC1.S06			26	96	55	67	71	76	81	78	75	72	61	120	40	1

WATER COEFFICIENTS

mm

	WG02	WG03	WG04	WG05	WG6A	WG6B	WG6	WG7A	WG7B	WG7	WG8A	WG8B	WG8	WG09	WG10	WG11
PCFI.C11.LC1.S07	2	33	102	57	69	75	82	88	85	79	75	66	143	47	2	
PCFI.C11.LC1.S08		19	102	54	64	68	73	78	74	69	65	56	117	39	1	
PCFI.C11.LC1.S09	1	34	103	54	64	69	75	80	76	72	68	59	124	42	8	
PCFI.C11.LC1.S10		9	80	50	62	64	65	68	65	62	59	53	116	43		
PCFI.C11.LC1.S11		7	79	50	63	65	66	69	66	63	60	53	118	42		
PCPI.C11.LC1.N01		17	89	53	66	72	80	87	84	80	77	68	146	53	1	
PCPI.C11.LC1.N03		6	69	47	60	67	75	84	81	76	73	63	128	30		
PCPI.C11.LC1.N2A		17	86	53	66	71	75	81	78	74	71	62	133	35		
PCPI.C11.LC1.N2B		17	86	53	66	71	75	81	78	74	71	62	133	35		
PCPI.C11.LC1.N4A		1	55	41	53	57	60	65	62	60	57	50	102	22		
PCPI.C11.LC1.N4B		3	57	41	53	57	61	65	63	60	57	50	102	22		
PCPI.C11.LC1.N4C		3	57	41	53	57	61	65	63	60	57	50	102	22		
PCPI.C11.LC1.NOP		17	86	53	66	71	75	81	78	74	71	62	133	35		
PCPI.C11.LC1.S05	5	47	106	57	70	75	82	89	85	79	75	67	145	55	5	
PCPI.C11.LC1.S06		26	96	55	67	71	76	81	78	75	72	61	120	40	1	
PCPI.C11.LC1.S07	2	33	102	57	69	75	82	88	85	79	75	66	143	47	2	
PCPI.C11.LC1.S08		19	102	54	64	68	73	78	74	69	65	56	117	39	1	
PCPI.C11.LC1.S09	1	34	103	54	64	69	75	80	76	72	68	59	124	42	8	
PCPI.C11.LC1.S10		9	80	50	62	64	65	68	65	62	59	53	116	43		
PCPI.C11.LC1.S11		7	79	50	63	65	66	69	66	63	60	53	118	42		
POMI.C11.LC1.N01		17	89	53	66	72	80	87	84	80	77	68	146	53	1	
POMI.C11.LC1.N03		6	69	47	60	67	75	84	81	76	73	63	128	30		
POMI.C11.LC1.N2A		17	86	53	66	71	75	81	78	74	71	62	133	35		
POMI.C11.LC1.N2B		17	86	53	66	71	75	81	78	74	71	62	133	35		
POMI.C11.LC1.N4A		1	55	41	53	57	60	65	62	60	57	50	102	22		
POMI.C11.LC1.N4B		3	57	41	53	57	61	65	63	60	57	50	102	22		
POMI.C11.LC1.N4C		3	57	41	53	57	61	65	63	60	57	50	102	22		
POMI.C11.LC1.NOP		17	86	53	66	71	75	81	78	74	71	62	133	35		
POMI.C11.LC1.S05	5	47	106	57	70	75	82	89	85	79	75	67	145	55	5	
POMI.C11.LC1.S06		26	96	55	67	71	76	81	78	75	72	61	120	40	1	
POMI.C11.LC1.S07	2	33	102	57	69	75	82	88	85	79	75	66	143	47	2	
POMI.C11.LC1.S08		19	102	54	64	68	73	78	74	69	65	56	117	39	1	
POMI.C11.LC1.S09	1	34	103	54	64	69	75	80	76	72	68	59	124	42	8	
POMI.C11.LC1.S10		9	80	50	62	64	65	68	65	62	59	53	116	43		
POMI.C11.LC1.S11		7	79	50	63	65	66	69	66	63	60	53	118	42		
WCRI.C11.LC1.N01		21	99	59	73	80	89	96	93	88	82	72	158	63	3	
WCRI.C11.LC1.N03		8	77	52	66	74	84	93	89	83	78	67	139	37		
WCRI.C11.LC1.N2A		20	96	58	73	78	84	90	86	81	75	66	143	43		
WCRI.C11.LC1.N2B		20	96	58	73	78	84	90	86	81	75	66	143	43		
WCRI.C11.LC1.N4A		3	64	45	58	62	67	72	69	66	61	53	110	27		
WCRI.C11.LC1.N4B		5	66	45	58	63	67	72	69	66	61	53	110	28		
WCRI.C11.LC1.N4C		5	66	45	58	63	67	72	69	66	61	53	110	28		
WCRI.C11.LC1.NOP		20	96	58	73	78	84	90	86	81	75	66	143	43		
WCRI.C11.LC1.S05	6	51	116	63	77	83	91	98	94	87	80	71	157	63	9	
WCRI.C11.LC1.S06		29	105	60	74	79	84	90	87	82	76	65	130	47	3	
WCRI.C11.LC1.S07	2	38	112	62	76	83	91	98	94	86	80	70	155	55	4	
WCRI.C11.LC1.S08		23	112	59	70	75	81	87	83	76	69	60	127	46	3	
WCRI.C11.LC1.S09	1	38	112	59	71	76	83	89	85	79	73	63	12	50	3	
WCRI.C11.LC1.S10		12	89	54	68	70	72	75	72	68	63	56	178	50	1	
WCRI.C11.LC1.S11		9	88	55	69	71	74	76	73	69	63	56	127	50		

APPENDIX E 7:

YIELD COEFFICIENTS

(KG PER DECAR)

YIELD COEFFICIENTS	kg/da
ALFI.C11.LC1.N00.ALFALFA	1750.00
ALFI.C11.LC1.S00.ALFALFA	1900.00
ALFI.C11.LC2.N00.ALFALFA	1645.00
ALFI.C11.LC2.S00.ALFALFA	1786.00
ALFI.C11.LC3.N00.ALFALFA	1540.00
ALFI.C11.LC3.S00.ALFALFA	1672.00
BR1I.C11.LC1.000.BARLEY	600.00
BR1I.C11.LC2.000.BARLEY	564.00
BR1I.C11.LC3.000.BARLEY	528.00
BR2I.C11.LC1.000.BARLEY	600.00
BR2I.C11.LC2.000.BARLEY	564.00
BR2I.C11.LC3.000.BARLEY	528.00
BRLD.C11.LC1.NHR.BARLEY	350.75
BRLD.C11.LC1.0MR.BARLEY	305.00
BRLD.C11.LC1.SLR.BARLEY	259.25
BRLD.C11.LC2.NHR.BARLEY	329.71
BRLD.C11.LC2.0MR.BARLEY	286.70
BRLD.C11.LC2.SLR.BARLEY	243.70
BRLD.C11.LC3.NHR.BARLEY	308.66
BRLD.C11.LC3.0MR.BARLEY	268.40
BRLD.C11.LC3.SLR.BARLEY	228.14
BRLD.C11.LC4.NHR.BARLEY	287.62
BRLD.C11.LC4.0MR.BARLEY	250.10
BRLD.C11.LC4.SLR.BARLEY	212.59
CASI.C11.LC1.000.CARROT	4500.00
CASI.C11.LC2.000.CARROT	3870.00
CASI.C11.LC3.000.CARROT	3240.00
CAWI.C11.LC1.000.CARROT	2300.00
CAWI.C11.LC2.000.CARROT	2024.00
CAWI.C11.LC3.000.CARROT	1748.00
CB1I.C11.LC1.000.CABBAGE	3500.00
CB1I.C11.LC2.000.CABBAGE	3010.00
CB1I.C11.LC3.000.CABBAGE	2520.00
CB2I.C11.LC1.000.CABBAGE	3500.00
CB2I.C11.LC2.000.CABBAGE	3010.00
CB2I.C11.LC3.000.CABBAGE	2520.00
CB3I.C11.LC1.000.CABBAGE	3500.00
CB3I.C11.LC2.000.CABBAGE	3010.00
CB3I.C11.LC3.000.CABBAGE	2520.00
CC1I.C11.LC1.000.CUCUMBER	4000.00
CC1I.C11.LC2.000.CUCUMBER	3280.00
CC1I.C11.LC3.000.CUCUMBER	2560.00
CC2I.C11.LC1.000.CUCUMBER	4000.00
CC2I.C11.LC2.000.CUCUMBER	3280.00
CC2I.C11.LC3.000.CUCUMBER	2560.00
CG1I.C11.LC1.000.CORN	900.00
CG1I.C11.LC2.000.CORN	846.00
CG1I.C11.LC3.000.CORN	792.00
CG2I.C11.LC1.000.CORN	900.00
CG2I.C11.LC2.000.CORN	846.00
CG2I.C11.LC3.000.CORN	792.00
CG3I.C11.LC1.000.CORN	900.00
CG3I.C11.LC2.000.CORN	846.00
CG3I.C11.LC3.000.CORN	792.00
CH1I.C11.LC1.000.CHICK-PEA	350.00
CH1I.C11.LC2.000.CHICK-PEA	329.00
CH1I.C11.LC3.000.CHICK-PEA	308.00
CH2I.C11.LC1.000.CHICK-PEA	350.00
CH2I.C11.LC2.000.CHICK-PEA	329.00

YIELD COEFFICIENTS	kg/da
CH2I.C11.LC3.000.CHICK-PEA	308.00
CH3I.C11.LC1.000.CHICK-PEA	350.00
CH3I.C11.LC2.000.CHICK-PEA	329.00
CH3I.C11.LC3.000.CHICK-PEA	308.00
CHCD.C11.LC1.NHR.CHICK-PEA	230.00
CHCD.C11.LC1.0MR.CHICK-PEA	200.00
CHCD.C11.LC1.SLR.CHICK-PEA	170.00
CHCD.C11.LC2.NHR.CHICK-PEA	216.20
CHCD.C11.LC2.0MR.CHICK-PEA	188.00
CHCD.C11.LC2.SLR.CHICK-PEA	159.80
CHCD.C11.LC3.NHR.CHICK-PEA	202.40
CHCD.C11.LC3.0MR.CHICK-PEA	176.00
CHCD.C11.LC3.SLR.CHICK-PEA	149.60
CHCD.C11.LC4.NHR.CHICK-PEA	188.60
CHCD.C11.LC4.0MR.CHICK-PEA	164.00
CHCD.C11.LC4.SLR.CHICK-PEA	139.40
CLFI.C11.LC1.000.CAULIFLOWR	3000.00
CLFI.C11.LC2.000.CAULIFLOWR	2460.00
CLFI.C11.LC3.000.CAULIFLOWR	2040.00
CS1I.C11.LC1.000.CORN-SIL	6100.00
CS1I.C11.LC2.000.CORN-SIL	5734.00
CS1I.C11.LC3.000.CORN-SIL	5368.00
CS2I.C11.LC1.000.CORN-SIL	7980.00
CS2I.C11.LC2.000.CORN-SIL	7501.20
CS2I.C11.LC3.000.CORN-SIL	7022.40
CS3I.C11.LC1.000.CORN-SIL	6890.00
CS3I.C11.LC2.000.CORN-SIL	6476.60
CS3I.C11.LC3.000.CORN-SIL	6063.20
CT1I.C11.LC1.000.COTTON	450.00
CT1I.C11.LC2.000.COTTON	423.00
CT2I.C11.LC1.S00.COTTON	415.00
CT2I.C11.LC2.S00.COTTON	390.10
CT3I.C11.LC1.S00.COTTON	380.00
CT3I.C11.LC2.S00.COTTON	357.20
CTOI.C11.LC1.N00.CON-TOMATO	5040.00
CTOI.C11.LC1.S00.CON-TOMATO	6000.00
CTOI.C11.LC2.N00.CON-TOMATO	4132.80
CTOI.C11.LC2.S00.CON-TOMATO	4920.00
CTOI.C11.LC3.N00.CON-TOMATO	3225.60
CTOI.C11.LC3.S00.CON-TOMATO	3840.00
CW1I.C11.LC1.000.COMWHEAT	560.00
CW1I.C11.LC2.000.COMWHEAT	526.40
CW1I.C11.LC3.000.COMWHEAT	492.80
CW2I.C11.LC1.000.COMWHEAT	560.00
CW2I.C11.LC2.000.COMWHEAT	526.40
CW2I.C11.LC3.000.COMWHEAT	492.80
CW3I.C11.LC1.S05.COMWHEAT	560.00
CW3I.C11.LC2.S05.COMWHEAT	526.40
CW3I.C11.LC3.S05.COMWHEAT	492.80
CWHD.C11.LC1.NHR.COMWHEAT	391.00
CWHD.C11.LC1.0MR.COMWHEAT	340.00
CWHD.C11.LC1.SLR.COMWHEAT	289.00
CWHD.C11.LC2.NHR.COMWHEAT	367.54
CWHD.C11.LC2.0MR.COMWHEAT	319.60
CWHD.C11.LC2.SLR.COMWHEAT	271.66
CWHD.C11.LC3.NHR.COMWHEAT	344.08
CWHD.C11.LC3.0MR.COMWHEAT	299.20
CWHD.C11.LC3.SLR.COMWHEAT	254.32
CWHD.C11.LC4.NHR.COMWHEAT	320.62

YIELD COEFFICIENTS	kg/da
CWHD.C11.LC4.0MR.COMWHEAT	278.80
CWHD.C11.LC4.SLR.COMWHEAT	236.98
DBNI.C11.LC1.000.DRY-BEAN	200.00
DBNI.C11.LC2.000.DRY-BEAN	188.00
DBNI.C11.LC3.000.DRY-BEAN	176.00
DW1I.C11.LC1.000.DURWHEAT	520.00
DW1I.C11.LC2.000.DURWHEAT	488.80
DW1I.C11.LC3.000.DURWHEAT	457.60
DW2I.C11.LC1.N00.DURWHEAT	520.00
DW2I.C11.LC2.N00.DURWHEAT	488.80
DW2I.C11.LC3.N00.DURWHEAT	457.60
DW3I.C11.LC1.S00.DURWHEAT	520.00
DW3I.C11.LC2.S00.DURWHEAT	488.80
DW3I.C11.LC3.S00.DURWHEAT	457.60
DWHD.C11.LC1.NHR.DURWHEAT	391.00
DWHD.C11.LC1.0MR.DURWHEAT	340.00
DWHD.C11.LC1.SLR.DURWHEAT	289.00
DWHD.C11.LC2.NHR.DURWHEAT	367.54
DWHD.C11.LC2.0MR.DURWHEAT	319.60
DWHD.C11.LC2.SLR.DURWHEAT	271.66
DWHD.C11.LC3.NHR.DURWHEAT	344.08
DWHD.C11.LC3.0MR.DURWHEAT	299.20
DWHD.C11.LC3.SLR.DURWHEAT	254.32
DWHD.C11.LC4.NHR.DURWHEAT	320.62
DWHD.C11.LC4.0MR.DURWHEAT	278.80
DWHD.C11.LC4.SLR.DURWHEAT	236.98
EG1I.C11.LC1.000.AUBERGINE	6000.00
EG1I.C11.LC2.000.AUBERGINE	4920.00
EG1I.C11.LC3.000.AUBERGINE	3840.00
EG2I.C11.LC1.000.AUBERGINE	6000.00
EG2I.C11.LC2.000.AUBERGINE	4920.00
EG2I.C11.LC3.000.AUBERGINE	3840.00
FTOI.C11.LC1.N00.FRE-TOMATO	4550.00
FTOI.C11.LC1.S00.FRE-TOMATO	5400.00
FTOI.C11.LC2.N00.FRE-TOMATO	3731.00
FTOI.C11.LC2.S00.FRE-TOMATO	4428.00
FTOI.C11.LC3.N00.FRE-TOMATO	2912.00
FTOI.C11.LC3.S00.FRE-TOMATO	3456.00
GN1I.C11.LC1.000.GROUNDNUT	375.00
GN1I.C11.LC2.000.GROUNDNUT	352.50
GN1I.C11.LC3.000.GROUNDNUT	330.00
GN2I.C11.LC1.000.GROUNDNUT	330.00
GN2I.C11.LC2.000.GROUNDNUT	310.20
GN2I.C11.LC3.000.GROUNDNUT	290.40
LEKI.C11.LC1.000.LEEK	7000.00
LEKI.C11.LC2.000.LEEK	6020.00
LEKI.C11.LC3.000.LEEK	5040.00
LNTD.C11.LC1.NHR.LENTIL	218.50
LNTD.C11.LC1.0MR.LENTIL	190.00
LNTD.C11.LC1.SLR.LENTIL	161.50
LNTD.C11.LC2.NHR.LENTIL	205.39
LNTD.C11.LC2.0MR.LENTIL	178.60
LNTD.C11.LC2.SLR.LENTIL	151.81
LNTD.C11.LC3.NHR.LENTIL	192.28
LNTD.C11.LC3.0MR.LENTIL	167.20
LNTD.C11.LC3.SLR.LENTIL	142.12
LNTD.C11.LC4.NHR.LENTIL	179.17
LNTD.C11.LC4.0MR.LENTIL	155.80
LNTD.C11.LC4.SLR.LENTIL	132.43

YIELD COEFFICIENTS	kg/da
LNTI.C11.LC1.000.LENTIL	300.00
LNTI.C11.LC2.000.LENTIL	282.00
LNTI.C11.LC3.000.LENTIL	264.00
LT1I.C11.LC1.000.LETTUCE	4500.00
LT1I.C11.LC2.000.LETTUCE	3870.00
LT1I.C11.LC3.000.LETTUCE	3240.00
LT2I.C11.LC1.000.LETTUCE	4500.00
LT2I.C11.LC2.000.LETTUCE	3870.00
LT2I.C11.LC3.000.LETTUCE	3240.00
LT3I.C11.LC1.000.LETTUCE	4500.00
LT3I.C11.LC2.000.LETTUCE	3870.00
LT3I.C11.LC3.000.LETTUCE	3240.00
MELD.C11.LC1.NHR.MELON	1300.08
MELD.C11.LC1.OMR.MELON	1130.50
MELD.C11.LC1.SLR.MELON	960.93
MELD.C11.LC2.NHR.MELON	1222.07
MELD.C11.LC2.OMR.MELON	1062.67
MELD.C11.LC2.SLR.MELON	903.27
MELD.C11.LC3.NHR.MELON	1144.07
MELD.C11.LC3.OMR.MELON	994.84
MELD.C11.LC3.SLR.MELON	845.61
MELD.C11.LC4.NHR.MELON	1066.06
MELD.C11.LC4.OMR.MELON	927.01
MELD.C11.LC4.SLR.MELON	787.96
MELI.C11.LC1.000.MELON	3000.00
MELI.C11.LC2.000.MELON	2820.00
MELI.C11.LC3.000.MELON	2640.00
OKRI.C11.LC1.S00.OKRA	1000.00
OKRI.C11.LC2.S00.OKRA	820.00
OKRI.C11.LC3.S00.OKRA	680.00
ON1I.C11.LC1.000.ONION	1900.00
ON1I.C11.LC2.000.ONION	1634.00
ON1I.C11.LC3.000.ONION	1368.00
ON2I.C11.LC1.000.ONION	1900.00
ON2I.C11.LC2.000.ONION	1634.00
ON2I.C11.LC3.000.ONION	1368.00
ON3I.C11.LC1.000.ONION	1900.00
ON3I.C11.LC2.000.ONION	1634.00
ON3I.C11.LC3.000.ONION	1368.00
ONSI.C11.LC1.000.ONION	1400.00
ONSI.C11.LC2.000.ONION	1204.00
ONSI.C11.LC3.000.ONION	1008.00
PP1I.C11.LC1.000.PEPPER	2800.00
PP1I.C11.LC2.000.PEPPER	2296.00
PP1I.C11.LC3.000.PEPPER	1792.00
PP2I.C11.LC1.000.PEPPER	2800.00
PP2I.C11.LC2.000.PEPPER	2296.00
PP2I.C11.LC3.000.PEPPER	1792.00
PTEI.C11.LC1.000.EARLY-POT	2000.00
PTEI.C11.LC2.000.EARLY-POT	1720.00
PTEI.C11.LC3.000.EARLY-POT	1440.00
PTLI.C11.LC1.000.POTATO	2800.00
PTLI.C11.LC2.000.POTATO	2408.00
PTLI.C11.LC3.000.POTATO	2016.00
RICI.C11.LC1.000.RICE	585.00
RYED.C11.LC1.NHR.RYE	247.25
RYED.C11.LC1.OMR.RYE	215.00
RYED.C11.LC1.SLR.RYE	182.75
RYED.C11.LC2.NHR.RYE	232.41

YIELD COEFFICIENTS	kg/da
RYED.C11.LC2.OMR.RYE	202.10
RYED.C11.LC2.SLR.RYE	171.79
RYED.C11.LC3.NHR.RYE	217.58
RYED.C11.LC3.OMR.RYE	189.20
RYED.C11.LC3.SLR.RYE	160.82
RYED.C11.LC4.NHR.RYE	202.75
RYED.C11.LC4.OMR.RYE	176.30
RYED.C11.LC4.SLR.RYE	149.86
SB1I.C11.LC1.000.SOYABEAN	380.00
SB1I.C11.LC2.000.SOYABEAN	357.20
SB1I.C11.LC3.000.SOYABEAN	334.40
SB2I.C11.LC1.000.SOYABEAN	380.00
SB2I.C11.LC2.000.SOYABEAN	357.20
SB2I.C11.LC3.000.SOYABEAN	334.40
SB3I.C11.LC1.000.SOYABEAN	380.00
SB3I.C11.LC2.000.SOYABEAN	357.20
SB3I.C11.LC3.000.SOYABEAN	334.40
SBTI.C11.LC1.000.SUGARBEET	4500.00
SBTI.C11.LC2.000.SUGARBEET	4230.00
SBTI.C11.LC3.000.SUGARBEET	3960.00
SESD.C11.LC1.NHR.SESAME	115.00
SESD.C11.LC1.OMR.SESAME	100.00
SESD.C11.LC1.SLR.SESAME	85.00
SESD.C11.LC2.NHR.SESAME	108.10
SESD.C11.LC2.OMR.SESAME	94.00
SESD.C11.LC2.SLR.SESAME	79.90
SESD.C11.LC3.NHR.SESAME	101.20
SESD.C11.LC3.OMR.SESAME	88.00
SESD.C11.LC3.SLR.SESAME	74.80
SESD.C11.LC4.NHR.SESAME	94.30
SESD.C11.LC4.OMR.SESAME	82.00
SESD.C11.LC4.SLR.SESAME	69.70
SG1I.C11.LC1.000.SORGHUM	760.00
SG1I.C11.LC2.000.SORGHUM	714.40
SG1I.C11.LC3.000.SORGHUM	668.80
SG2I.C11.LC1.000.SORGHUM	950.00
SG2I.C11.LC2.000.SORGHUM	893.00
SG2I.C11.LC3.000.SORGHUM	836.00
SG3I.C11.LC1.000.SORGHUM	855.00
SG3I.C11.LC2.000.SORGHUM	803.70
SG3I.C11.LC3.000.SORGHUM	752.40
SN1I.C11.LC1.000.SUNFLOWER	300.00
SN1I.C11.LC2.000.SUNFLOWER	282.00
SN1I.C11.LC3.000.SUNFLOWER	264.00
SN2I.C11.LC1.000.SUNFLOWER	300.00
SN2I.C11.LC2.000.SUNFLOWER	282.00
SN2I.C11.LC3.000.SUNFLOWER	264.00
SN3I.C11.LC1.S00.SUNFLOWER	300.00
SN3I.C11.LC2.S00.SUNFLOWER	282.00
SN3I.C11.LC3.S00.SUNFLOWER	264.00
SNFD.C11.LC1.NHR.SUNFLOWER	207.00
SNFD.C11.LC1.OMR.SUNFLOWER	180.00
SNFD.C11.LC1.SLR.SUNFLOWER	153.00
SNFD.C11.LC2.NHR.SUNFLOWER	194.58
SNFD.C11.LC2.OMR.SUNFLOWER	169.20
SNFD.C11.LC2.SLR.SUNFLOWER	143.82
SNFD.C11.LC3.NHR.SUNFLOWER	182.16
SNFD.C11.LC3.OMR.SUNFLOWER	158.40
SNFD.C11.LC3.SLR.SUNFLOWER	134.64

YIELD COEFFICIENTS	kg/da
SNFD.C11.LC4.NHR.SUNFLOWER	169.74
SNFD.C11.LC4.OMR.SUNFLOWER	147.60
SNFD.C11.LC4.SLR.SUNFLOWER	125.46
SP1I.C11.LC1.000.SPINACH	2500.00
SP1I.C11.LC2.000.SPINACH	2150.00
SP1I.C11.LC3.000.SPINACH	1800.00
SP2I.C11.LC1.000.SPINACH	2500.00
SP2I.C11.LC2.000.SPINACH	2150.00
SP2I.C11.LC3.000.SPINACH	1800.00
SP3I.C11.LC1.000.SPINACH	2500.00
SP3I.C11.LC2.000.SPINACH	2150.00
SP3I.C11.LC3.000.SPINACH	1800.00
SPSI.C11.LC1.000.SPINACH	1200.00
SPSI.C11.LC2.000.SPINACH	1032.00
SPSI.C11.LC3.000.SPINACH	864.00
SQAI.C11.LC1.000.SQUASH	4000.00
SQAI.C11.LC2.000.SQUASH	3280.00
SQAI.C11.LC3.000.SQUASH	2720.00
SS1I.C11.LC1.000.SORGH-SIL	7200.00
SS1I.C11.LC2.000.SORGH-SIL	6768.00
SS1I.C11.LC3.000.SORGH-SIL	6336.00
SS2I.C11.LC1.000.SORGH-SIL	9070.00
SS2I.C11.LC2.000.SORGH-SIL	8525.80
SS2I.C11.LC3.000.SORGH-SIL	7981.60
SS3I.C11.LC1.000.SORGH-SIL	8130.00
SS3I.C11.LC2.000.SORGH-SIL	7642.20
SS3I.C11.LC3.000.SORGH-SIL	7154.40
TOBD.C11.LC2.NHR.TOBACCO	103.50
TOBD.C11.LC2.NMR.TOBACCO	90.00
TOBD.C11.LC2.SLR.TOBACCO	71.91
TOBD.C11.LC3.NHR.TOBACCO	91.18
TOBD.C11.LC3.NMR.TOBACCO	79.90
TOBD.C11.LC3.SLR.TOBACCO	67.68
TOBD.C11.LC4.NHR.TOBACCO	80.08
TOBD.C11.LC4.NMR.TOBACCO	69.52
TOBD.C11.LC4.SLR.TOBACCO	58.96
VCFD.C11.LC1.NHR.VETCH-FOD	1081.00
VCFD.C11.LC1.OMR.VETCH-FOD	940.00
VCFD.C11.LC1.SLR.VETCH-FOD	800.00
VCFD.C11.LC2.NHR.VETCH-FOD	1016.14
VCFD.C11.LC2.OMR.VETCH-FOD	883.60
VCFD.C11.LC2.SLR.VETCH-FOD	752.00
VCFD.C11.LC3.NHR.VETCH-FOD	951.28
VCFD.C11.LC3.OMR.VETCH-FOD	827.20
VCFD.C11.LC3.SLR.VETCH-FOD	704.00
VCFD.C11.LC4.NHR.VETCH-FOD	886.42
VCFD.C11.LC4.OMR.VETCH-FOD	770.80
VCFD.C11.LC4.SLR.VETCH-FOD	656.00
VCGD.C11.LC1.NHR.VETCH-GRA	287.50
VCGD.C11.LC1.OMR.VETCH-GRA	250.00
VCGD.C11.LC1.SLR.VETCH-GRA	212.50
VCGD.C11.LC2.NHR.VETCH-GRA	270.25
VCGD.C11.LC2.OMR.VETCH-GRA	235.00
VCGD.C11.LC2.SLR.VETCH-GRA	199.75
VCGD.C11.LC3.NHR.VETCH-GRA	253.00
VCGD.C11.LC3.OMR.VETCH-GRA	220.00
VCGD.C11.LC3.SLR.VETCH-GRA	187.00
VCGD.C11.LC4.NHR.VETCH-GRA	235.75
VCGD.C11.LC4.OMR.VETCH-GRA	205.00

YIELD COEFFICIENTS	kg/da
VCGD.C11.LC4.SLR.VETCH-GRA	174.25
WMLD.C11.LC1.NHR.WAT-MELON	1615.75
WMLD.C11.LC1.0MR.WAT-MELON	1405.00
WMLD.C11.LC1.SLR.WAT-MELON	1194.25
WMLD.C11.LC2.NHR.WAT-MELON	1518.80
WMLD.C11.LC2.0MR.WAT-MELON	1320.70
WMLD.C11.LC2.SLR.WAT-MELON	1122.60
WMLD.C11.LC3.NHR.WAT-MELON	1421.86
WMLD.C11.LC3.0MR.WAT-MELON	1236.40
WMLD.C11.LC3.SLR.WAT-MELON	1050.94
WMLD.C11.LC4.NHR.WAT-MELON	1324.91
WMLD.C11.LC4.0MR.WAT-MELON	1152.10
WMLD.C11.LC4.SLR.WAT-MELON	979.29
WMLI.C11.LC1.000.WAT-MELON	3500.00
WMLI.C11.LC2.000.WAT-MELON	3290.00
WMLI.C11.LC3.000.WAT-MELON	2905.00
APPI.C11.LC1.N00.APPLE	860.00
APPI.C11.LC2.N00.APPLE	834.20
APPI.C11.LC3.N00.APPLE	808.40
APRI.C11.LC1.000.APRICOT	1070.00
APRI.C11.LC2.000.APRICOT	1037.90
APRI.C11.LC3.000.APRICOT	1005.80
CRRI.C11.LC1.000.CHERRY	720.00
CRRI.C11.LC2.000.CHERRY	698.40
CRRI.C11.LC3.000.CHERRY	676.80
FGDI.C11.LC1.000.DRY-FIGS	720.00
FGDI.C11.LC2.000.DRY-FIGS	698.40
FGDI.C11.LC3.000.DRY-FIGS	676.80
FGFI.C11.LC1.000.FRE-FIGS	720.00
FGFI.C11.LC2.000.FRE-FIGS	698.40
FGFI.C11.LC3.000.FRE-FIGS	676.80
GRSI.C11.LC1.000.SULTANA	900.00
GRSI.C11.LC2.000.SULTANA	873.00
GRSI.C11.LC3.000.SULTANA	846.00
GRTD.C11.LC1.NHR.TAB-GRAPE	800.00
GRTD.C11.LC1.0MR.TAB-GRAPE	690.00
GRTD.C11.LC2.NHR.TAB-GRAPE	776.00
GRTD.C11.LC2.0MR.TAB-GRAPE	669.30
GRTD.C11.LC3.NHR.TAB-GRAPE	752.00
GRTD.C11.LC3.0MR.TAB-GRAPE	648.60
GRTD.C11.LC4.NHR.TAB-GRAPE	728.00
GRTD.C11.LC4.0MR.TAB-GRAPE	627.90
GRTI.C11.LC1.N00.TAB-GRAPE	700.00
GRTI.C11.LC1.S00.TAB-GRAPE	1100.00
GRTI.C11.LC2.N00.TAB-GRAPE	679.00
GRTI.C11.LC2.S00.TAB-GRAPE	1067.00
GRTI.C11.LC3.N00.TAB-GRAPE	658.00
GRTI.C11.LC3.S00.TAB-GRAPE	1034.00
GRWD.C11.LC1.00R.WINE-GRAPE	670.00
GRWD.C11.LC2.00R.WINE-GRAPE	649.90
GRWD.C11.LC3.00R.WINE-GRAPE	629.80
GRWD.C11.LC4.00R.WINE-GRAPE	609.70
OLOD.C11.LC1.NHR.OIL-OLIVE	110.00
OLOD.C11.LC2.NHR.OIL-OLIVE	106.70
OLOD.C11.LC3.NHR.OIL-OLIVE	103.40
OLOD.C11.LC4.NHR.OIL-OLIVE	100.10
OLTD.C11.LC1.NHR.TAB-OLIVE	100.00
OLTD.C11.LC2.NHR.TAB-OLIVE	97.00

YIELD COEFFICIENTS	kg/da
OLTD.C11.LC3.NHR.TAB-OLIVE	94.00
OLTD.C11.LC4.NHR.TAB-OLIVE	91.00
PARI.C11.LC1.000.PEARS	700.00
PARI.C11.LC2.000.PEARS	679.00
PARI.C11.LC3.000.PEARS	658.00
PCFI.C11.LC1.000.FRE-PEACH	930.00
PCFI.C11.LC2.000.FRE-PEACH	902.10
PCFI.C11.LC3.000.FRE-PEACH	874.20
PCPI.C11.LC1.000.PRO-PEACH	1200.00
PCPI.C11.LC2.000.PRO-PEACH	1164.00
PCPI.C11.LC3.000.PRO-PEACH	1128.00
PISD.C11.LC1.NHR.PISTACHIO	34.50
PISD.C11.LC1.0MR.PISTACHIO	36.20
PISD.C11.LC1.SLR.PISTACHIO	36.20
PISD.C11.LC2.NHR.PISTACHIO	33.47
PISD.C11.LC2.0MR.PISTACHIO	35.11
PISD.C11.LC2.SLR.PISTACHIO	35.11
PISD.C11.LC3.NHR.PISTACHIO	32.43
PISD.C11.LC3.0MR.PISTACHIO	34.03
PISD.C11.LC3.SLR.PISTACHIO	34.03
PISD.C11.LC4.NHR.PISTACHIO	31.40
PISD.C11.LC4.0MR.PISTACHIO	32.94
PISD.C11.LC4.SLR.PISTACHIO	32.94
POMI.C11.LC1.000.POMEGRAN	880.00
POMI.C11.LC2.000.POMEGRAN	853.60
POMI.C11.LC3.000.POMEGRAN	827.20
WCRI.C11.LC1.000.WILDCHERRY	700.00
WCRI.C11.LC2.000.WILDCHERRY	679.00
WCRI.C11.LC3.000.WILDCHERRY	658.00

APPENDIX E 8:

BY-PRODUCT COEFFICIENTS

(KG PER DECAR)

BY-PRODUCTS	kg/da
BR1I.C11.LC1.000.F-BARLEY	1080.00
BR1I.C11.LC2.000.F-BARLEY	1015.20
BR1I.C11.LC3.000.F-BARLEY	950.40
BR2I.C11.LC1.000.F-BARLEY	1080.00
BR2I.C11.LC2.000.F-BARLEY	1015.20
BR2I.C11.LC3.000.F-BARLEY	950.40
BRLD.C11.LC1.NHR.F-BARLEY	631.35
BRLD.C11.LC1.0MR.F-BARLEY	549.00
BRLD.C11.LC1.SLR.F-BARLEY	466.65
BRLD.C11.LC2.NHR.F-BARLEY	593.47
BRLD.C11.LC2.0MR.F-BARLEY	516.06
BRLD.C11.LC2.SLR.F-BARLEY	438.65
BRLD.C11.LC3.NHR.F-BARLEY	555.59
BRLD.C11.LC3.0MR.F-BARLEY	483.12
BRLD.C11.LC3.SLR.F-BARLEY	410.65
BRLD.C11.LC4.NHR.F-BARLEY	517.71
BRLD.C11.LC4.0MR.F-BARLEY	450.18
BRLD.C11.LC4.SLR.F-BARLEY	382.65
CG1I.C11.LC1.000.F-CORN	1260.00
CG1I.C11.LC2.000.F-CORN	1184.40
CG1I.C11.LC3.000.F-CORN	1108.80
CG2I.C11.LC1.000.F-CORN	1260.00
CG2I.C11.LC2.000.F-CORN	1184.40
CG2I.C11.LC3.000.F-CORN	1108.80
CG3I.C11.LC1.000.F-CORN	1260.00
CG3I.C11.LC2.000.F-CORN	1184.40
CG3I.C11.LC3.000.F-CORN	1108.80
CH1I.C11.LC1.000.F-PULSES	420.00
CH1I.C11.LC2.000.F-PULSES	394.80
CH1I.C11.LC3.000.F-PULSES	369.60
CH3I.C11.LC1.000.F-PULSES	420.00
CH3I.C11.LC2.000.F-PULSES	394.80
CH3I.C11.LC3.000.F-PULSES	369.60
CHCD.C11.LC1.NHR.F-PULSES	276.00
CHCD.C11.LC1.0MR.F-PULSES	240.00
CHCD.C11.LC1.SLR.F-PULSES	204.00
CHCD.C11.LC2.NHR.F-PULSES	259.44
CHCD.C11.LC2.0MR.F-PULSES	225.60
CHCD.C11.LC2.SLR.F-PULSES	191.76
CHCD.C11.LC3.NHR.F-PULSES	242.88
CHCD.C11.LC3.0MR.F-PULSES	211.20
CHCD.C11.LC3.SLR.F-PULSES	179.52
CHCD.C11.LC4.NHR.F-PULSES	226.32
CHCD.C11.LC4.0MR.F-PULSES	196.80
CHCD.C11.LC4.SLR.F-PULSES	167.28
CW1I.C11.LC1.000.F-COMWHEAT	1008.00
CW1I.C11.LC2.000.F-COMWHEAT	947.52
CW1I.C11.LC3.000.F-COMWHEAT	887.04
CW2I.C11.LC1.N00.F-COMWHEAT	1008.00
CW2I.C11.LC2.N00.F-COMWHEAT	947.52
CW2I.C11.LC3.N00.F-COMWHEAT	887.04
CW3I.C11.LC1.S00.F-COMWHEAT	1008.00
CW3I.C11.LC2.S00.F-COMWHEAT	947.52
CW3I.C11.LC3.S00.F-COMWHEAT	887.04
CWHD.C11.LC1.NHR.F-COMWHEAT	598.23
CWHD.C11.LC1.0MR.F-COMWHEAT	520.20
CWHD.C11.LC1.SLR.F-COMWHEAT	442.17
CWHD.C11.LC2.NHR.F-COMWHEAT	562.34
CWHD.C11.LC2.0MR.F-COMWHEAT	488.99

BY-PRODUCTS	kg/da
CWHD.C11.LC2.SLR.F-COMWHEAT	415.64
CWHD.C11.LC3.NHR.F-COMWHEAT	526.44
CWHD.C11.LC3.OMR.F-COMWHEAT	457.78
CWHD.C11.LC3.SLR.F-COMWHEAT	389.11
CWHD.C11.LC4.NHR.F-COMWHEAT	490.55
CWHD.C11.LC4.OMR.F-COMWHEAT	426.56
CWHD.C11.LC4.SLR.F-COMWHEAT	362.58
DBNI.C11.LC1.N00.F-PULSES	240.00
DBNI.C11.LC2.N00.F-PULSES	225.60
DBNI.C11.LC3.N00.F-PULSES	211.20
DW1I.C11.LC1.000.F-DURWHEAT	936.00
DW1I.C11.LC2.000.F-DURWHEAT	879.84
DW1I.C11.LC3.000.F-DURWHEAT	823.68
DW2I.C11.LC1.N00.F-DURWHEAT	936.00
DW2I.C11.LC2.N00.F-DURWHEAT	879.84
DW2I.C11.LC3.N00.F-DURWHEAT	823.68
DW3I.C11.LC1.S00.F-DURWHEAT	936.00
DW3I.C11.LC2.S00.F-DURWHEAT	879.84
DW3I.C11.LC3.S00.F-DURWHEAT	823.68
DWHD.C11.LC1.NHR.F-DURWHEAT	536.13
DWHD.C11.LC1.OMR.F-DURWHEAT	466.20
DWHD.C11.LC1.SLR.F-DURWHEAT	396.27
DWHD.C11.LC2.NHR.F-DURWHEAT	503.96
DWHD.C11.LC2.OMR.F-DURWHEAT	438.23
DWHD.C11.LC2.SLR.F-DURWHEAT	372.49
DWHD.C11.LC3.NHR.F-DURWHEAT	471.79
DWHD.C11.LC3.OMR.F-DURWHEAT	410.26
DWHD.C11.LC3.SLR.F-DURWHEAT	348.72
DWHD.C11.LC4.NHR.F-DURWHEAT	439.63
DWHD.C11.LC4.OMR.F-DURWHEAT	382.28
DWHD.C11.LC4.SLR.F-DURWHEAT	324.94
LNTD.C11.LC1.NHR.F-PULSES	248.40
LNTD.C11.LC1.OMR.F-PULSES	216.00
LNTD.C11.LC1.SLR.F-PULSES	183.60
LNTD.C11.LC2.NHR.F-PULSES	233.50
LNTD.C11.LC2.OMR.F-PULSES	203.04
LNTD.C11.LC2.SLR.F-PULSES	172.58
LNTD.C11.LC3.NHR.F-PULSES	218.59
LNTD.C11.LC3.OMR.F-PULSES	190.08
LNTD.C11.LC3.SLR.F-PULSES	161.57
LNTD.C11.LC4.NHR.F-PULSES	203.69
LNTD.C11.LC4.OMR.F-PULSES	177.12
LNTD.C11.LC4.SLR.F-PULSES	150.55
LNTI.C11.LC1.000.F-PULSES	360.00
LNTI.C11.LC2.000.F-PULSES	338.40
LNTI.C11.LC3.000.F-PULSES	316.80
RYED.C11.LC1.NHR.F-RYE	395.60
RYED.C11.LC1.OMR.F-RYE	344.00
RYED.C11.LC1.SLR.F-RYE	292.40
RYED.C11.LC2.NHR.F-RYE	371.86
RYED.C11.LC2.OMR.F-RYE	323.36
RYED.C11.LC2.SLR.F-RYE	274.86
RYED.C11.LC3.NHR.F-RYE	348.13
RYED.C11.LC3.OMR.F-RYE	302.72
RYED.C11.LC3.SLR.F-RYE	257.31
RYED.C11.LC4.NHR.F-RYE	324.39
RYED.C11.LC4.OMR.F-RYE	282.08
RYED.C11.LC4.SLR.F-RYE	239.77
VCGD.C11.LC1.NHR.F-VETCHG	431.25

BY-PRODUCTS	kg/da
VCGD.C11.LC1.0MR.F-VETCHG	375.00
VCGD.C11.LC1.SLR.F-VETCHG	318.75
VCGD.C11.LC2.NHR.F-VETCHG	405.38
VCGD.C11.LC2.0MR.F-VETCHG	352.50
VCGD.C11.LC2.SLR.F-VETCHG	299.63
VCGD.C11.LC3.NHR.F-VETCHG	379.50
VCGD.C11.LC3.0MR.F-VETCHG	330.00
VCGD.C11.LC3.SLR.F-VETCHG	280.50
VCGD.C11.LC4.NHR.F-VETCHG	353.63
VCGD.C11.LC4.0MR.F-VETCHG	307.50
VCGD.C11.LC4.SLR.F-VETCHG	261.38

APPENDIX E 9:

IRRIGATION DATA

Summary of Import Data

Irrigation Project	Code	Status*	Imple-mentation Date*	Max.Net** Irrig.Area [ha]	Gross Area Factor**	Annual Water Supply** [$10^6 m^3$]	Monthly Peak Supply ** [m^3/s]	Ep*** [%]
NORTH-GAP								
Siserek-Hilvan	N1	F/S	2006	139772	1.14547	1746	174	46
Adiyaman-Kahta	N2a	F/S	1997	67940	1.14548	669	68	50
Adiyaman-Göksu-Ar.	N2b	U/C	2000	62504	1.14549	535	52	51
Dicle right + right pumpal	N3	U/C	1994	110068	1.14547	1198	122	51
Garzan	N4a	M/P	2003	52380	1.14548	440	54	53
Batman right + left	N4b	U/C	1993	32950	1.14549	285	39	51
Batman-Silvan	N4c	M/P	2003	231300	1.11111	1386	168	45
SOUTH-GAP								
Urfa-Herran	S5	U/C	1993	126441	1.12175	1640	178	51
Merdin-Ceylan (1st+2nd stage)	S6	D/D	2000	296163	1.12991	3593	396	50
Bozova pumpal	S7	F/S	1998	58968	1.18203	707	72	47
Surnç-Baziki	S8	F/S	2003	102402	1.16605	1322	12	49
Gaziantep****	S9	D/D	2001	71234	1.14547	651	78	51
Nusaylin-Gizre-Idil	S10	F/S	2003	77697	1.14548	761	83	54
Siloysi	S11	F/S	2003	25749	1.24277	321	34	53

Notes:
* DSI information of Oct. 1991 (M/P = Master Plan, F/S = Feasibility Study, D/D = Detailed Design, U/C = Under Construction)
** DSI information of 24.1. and 10.2.92
*** Working Paper 15 of MP, Ep should be reduced by 15% alternatively
**** excluding Hancagiz, being already in operation

Relative Water Supply

Irrigation Project	Code	Annual Water Supply*		Monthly Peak Supply**	
		[l/s/ha]	[m³ETo]	[l/s/ha]	[m³/m³ Eto]
NORTH-GAP					
Sircerek-Hilvan	N1	0,59	0,85	1,24	1,13
Adiyaman-Kahta	N2a	0,47	0,72	1,00	0,97
Adiyaman-Göksu -Ar.	N2b	0,47	0,63	0,83	0,81
Dicle right + right pumpal	N3	0,51	0,84	1,11	1,05
Garzan	N4a	0,40	0,77	1,03	1,24
Batman right + left	N4b	0,41	0,79	1,18	1,42
Batman-Silvan	N4c	0,20	0,55	0,73	0,87
SOUTH-GAP					
Urfa-Herran	S5	0,51	0,89	1,41	1,27
Merdin-Ceylan (1st+2nd stage)	S6	0,57	0,92	1,34	1,30
Bozova pumped	S7	0,57	0,82	1,22	1,10
Surnç-Baziki	S8	0,61	0,99	1,19	1,20
Gaziantep	S9	0,49	0,69	1,09	1,11
Nusaylin-Cizre-Idil	S10	0,46	0,81	1,07	1,32
Siloysi	S11	0,59	1,01	1,32	1,50

Notes: * based on 249 days with irrigation (April to November)

** expected peak month: July

Yield Factors related to Irrigation Deficit (only during June to August)

Crop	Seeding date		Irr. 80	Irr. 60
Alfalfa			0.82	0.70
Barley	7.11.	x	0.94	0.88
"	23.10		1.00	1.00
Bean dry	5.4.	x	0.84	0.68
Cabbage	1.8.		0.84	0.68
"	15.8.	x	0.89	0.78
"	1.9.		1.00	1.00
Carrot-spring	17.3.	x	0.84	0.68
Carrot winter	9.9.	x	1.00	1.00
Cauliflower	15.7.	x	0.96	0.92
Chickpea	1.11.		0.98	0.96
"	15.11.	x	0.96	0.92
"	30.11.		0.95	0.90
Corn-grain	1.4.		0.58	0.16
"	16.4.		0.62	0.24
"	1.5.		0.68	0.36
"	16.5.		0.74	0.48
"	1.6.		0.80	0.60
"	16.6.		0.86	0.72
"	1.7.	x	0.92	0.84
Corn-sillage	1.4.		0.58	0.16
"	16.4.		0.62	0.24
"	1.5.		0.68	0.36
"	16.5.		0.74	0.48
"	1.6.		0.80	0.60
"	16.6.		0.86	0.72
"	1.7.	x	0.92	0.84
"	16.7.		0.93	0.86
Cotton	25.4.	x	0.88	0.76
Cucumber	5.5.	x	0.80	0.60
"	20.5.		0.80	0.60
Eggplant	1.4.	x	0.80	0.60
"	15.4.		0.80	0.60
Groundnut	1.4.	x	0.82	0.64
"	15.4.		0.81	0.62
"	1.5.		0.80	0.60
"	16.5.		0.80	0.60
"	1.6.		0.84	0.68
"	16.6.		0.88	0.76
Leek	1.7.		0.92	0.84
Lentil	15.7.	x	0.96	0.92
	3.11.	x	0.94	0.88
Onion-spring	15.3.		0.87	0.74
Onion-winter	24.8.		0.95	0.90
"	9.9.	x	0.93	0.86
"	24.9.		0.90	0.80
Pepper	5.5.	x	0.81	0.62
"	20.5.		0.80	0.60
Potato	28.3.		0.90	0.80
"	5.5.	x	0.80	0.60
"	20.5.		0.78	0.56
Potato, early	28.3.	x	0.96	0.92
Rice	20.5.	x	0.50	0.00
Sorghum grain	1.4.		0.82	0.64
	16.4.		0.82	0.64
	1.5.		0.82	0.64
	16.5.		0.82	0.64
	1.6.		0.87	0.74
	16.6.		0.93	0.86
	1.7.	x	0.95	0.90
Sorghum-sillage	1.4.		0.82	0.64
	16.4.		0.82	0.64
	1.5.		0.82	0.64
	16.5.		0.82	0.64
	1.6.		0.87	0.74
	16.6.		0.93	0.86
	1.7.	x	0.95	0.90
	16.7.		0.96	0.92
Soybean	1.4.		0.83	0.66
	16.4.		0.82	0.66
	1.5.		0.81	0.62
	15.5.		0.80	0.60
	1.6.		0.80	0.60
	16.6.		0.83	0.66
	1.7.	x	0.86	0.72
Spinach-spring	17.3.	x	1.00	1.00
Spinach-winter	5.9.		1.00	1.00
	20.9.	x	1.00	1.00
	5.10.		1.00	1.00
Squash	5.5.	x	0.80	0.60
Sugarbeet	1.4.	x	0.88	0.74
"	16.4.		0.88	0.74
Sunflower	1.4.	x	0.80	0.60
"	16.4.		0.80	0.60

Yield Factors related to Irrigation Deficit (only during June to August)

Crop	Seeding date		Irr. 80	Irr. 60	Crop	Seed. date		Irr. 80	Irr. 60
Lettuce	1.10.		1.00	1.00	Tomato	1.4.	x	0.78	0.56
"	15.10.	x	1.00	1.00	"	16.4.		0.79	0.58
"	1.11.		1.00	1.00					
Melon	3.5.	x	0.80	0.60	Watermelon	1.5.	x	0.80	0.60
Okra	5.5.	x	0.88	0.76	"	15.5.		0.79	0.58
					Wheat	23.10.		0.96	0.92
					"	7.11.	x	0.93	0.86

Note: X = main seeding date
Irr 80 and Irr 60 only to be applied for Dicle right bank, Dicle right bank pumped and Batman right and left bank.

APPENDIX E 10:

MODEL DATA FOR THE REST OF TURKEY

INPUT OUTPUT COEFFICIENTS

TABLE IOC BASIC PRODUCTION COEFFICIENTS

	SCOMWHDG	FCOMWHDP	SCOMWHIL	SDURWHDG	FDURWHDP
DRY-VGOOD					
DRY-GOOD	1	0	0	1	0
DRY-EITH	0	2	0	0	2
IRR-GOOD	0	0	0	0	0
IRR-POOR	0	0	1	0	0
IRR-EITH	0	0	1	0	0
A-DURWHE	0	0	0	1	2
A-COMWHE	1	2	1	0	0
FALLOW	0	1	0	0	1
LABOR-1Q	3.3	2.1	2.8	3.3	2.1
LABOR-2Q	22.3	3.6	38.8	22.3	3.6
LABOR-3Q	19.1	5.1	23.9	19.1	5.1
LABOR-4Q	3.6	3.6	11	3.6	3.6
TRACTOR-1Q	0.7	1.3	0	0.7	1.3
TRACTOR-2Q	5.2	3.1	1.1	5.2	3.1
TRACTOR-3Q	2.4	3.9	7.2	2.4	3.9
TRACTOR-4Q	2.8	2.3	6.1	2.8	2.3
NITROGEN	73.6	48	90.8	73.6	48.0
PHOSPHATE	68.5	59.8	71.6	68.5	59.8
S-COMWHEAT	180.9	194.4	243.8	0	0
COMWHEAT	2.2	2.1	3.9	0	0
F-COMWHEAT	2.8	2.3	6	0	0
S-DURWHEAT	0	0	0	217.1	233.3
DURWHEAT	0	0	0	2.2	2.1
F-DURWHEAT	0	0	0	2.8	2.3

+	SCOMWHDV	SDURWHDV
DRY-VGOOD	1	1
DRY-GOOD	0	0
DRY-EITH	0	0
IRR-GOOD	0	0
IRR-POOR	0	0
IRR-EITH	0	0
A-DURWHE	0	1
A-COMWHE	1	0
FALLOW	0	0
LABOR-1Q	6.6	6.6
LABOR-2Q	4	4
LABOR-3Q	0	0
LABOR-4Q	8	8
TRACTOR-1Q	0	0
TRACTOR-2Q	2.3	2.3
TRACTOR-3Q	0	0
TRACTOR-4Q	4.9	4.9
NITROGEN	85.0	85.0
PHOSPHATE	70.0	70.0
S-COMWHEAT	243.8	
COMWHEAT	3.5	
F-COMWHEAT	3.9	
S-DURWHEAT		292.6
DURWHEAT		3.5
F-DURWHEAT		3.9

+	SDURWHIL	SCORN-DV	FCORN-DG	SCORN-IL	SRYE--DG
DRY-VGOOD	0	1	0	0	0
DRY-GOOD	0	0	2	0	1
DRY-EITH	0	1	2	0	1
IRR-GOOD	0	0	0	0	0
IRR-POOR	1	0	0	1	0
IRR-EITH	1	0	0	1	0
A-DURWHE	1	0	0	0	0
A-CORN--	0	1	2	1	0
A-RYE---	0	0	0	0	1
FALLOW	0	0	1	0	0
LABOR-1Q	2.8	16	1.4	22.15	1.3
LABOR-2Q	38.8	128.5	70.12	259.55	3.9

LABOR-3Q	23.9		72.36	163	3.4
LABOR-4Q	11	162.2		18.1	4
TRACTOR-1Q	0	7.9	1.4	6.15	1.1
TRACTOR-2Q	1.1	3.8	1.92	4.1	3.2
TRACTOR-3Q	7.2		0.36	2	2.1
TRACTOR-4Q	6.1	2.4		1.75	2.8
NITROGEN	90.8	73.9	48	66	40
PHOSPHATE	71.6	42.4	60	32.5	50
S-DURWHEAT	284.6				
DURWHEAT	3.9				
F-DURWHEAT	6				
S-CORN		20	60	60	
CORN		2.23	2.5	4.68	
F-CORN		3	3.4	5	
S-RYE					174.5
RYE					1.66
F-RYE					1.8

+	FRYE--D	SRICE-IL	SRICE-IH	SBARLYDG	FBARLYDP
DRY-VGOOD	0	0	0	0	0
DRY-GOOD	0	0	0	1	0
DRY-EITH	2	0	0	0	2
IRR-GOOD	0	0	1	0	0
IRR-POOR	0	1	0	0	0
IRR-EITH	0	1	1	0	0
A-RYE---	2	0	0	0	0
A-RICE--	0	1	1	0	0
A-BARLEY	0	0	0	1	2
FALLOW	1	0	0	0	1
LABOR-1Q	2.6	22.1	2.2	3.5	3
LABOR-2Q	7.1	205.9	120.5	4	2.4
LABOR-3Q	2.3	183.8	72.1	40.3	3.9
LABOR-4Q	4.7	129.7	2.9	3.2	2.4
TRACTOR-1Q	2.2	0.8	2.2	1.1	2.4
TRACTOR-2Q	6.4	30.4	14.3	2.5	1.8
TRACTOR-3Q	1.0	5.1		3.8	2.9
TRACTOR-4Q	3.5	7.8	2.9	5.3	1.2
NITROGEN	38.5	186.6	384.4	48.5	30
PHOSPHATE	55.0	41.4	65.5	29.8	40
S-RYE	136.5				
RYE	2.0				
F-RYE	2.3				
S-RICE		134.5	240		
RICE		2.35	3.5		
F-RICE		0.5	0.5		
S-BARLEY				195	200
BARLEY				2.1	2.1
F-BARLEY				3.5	3.5

+	SCKPEADP	SCKPEAIL	SDBEANIL	SLENTLDP	SDPEASDP
DRY-VGOOD					
DRY-GOOD					
DRY-EITH	1			1	1
IRR-GOOD		1	1		
IRR-POOR					
IRR-EITH		1	1		
A-CHKPEA	1	1			
A-DRBEAN			1		
A-DRYPEA					1
A-LENTIL				1	
LABOR-1Q	2.1	1.8	0.8	5.7	3
LABOR-2Q	39.4	140	201.7		175
LABOR-3Q	82.5	181.9	157.3	144.6	200
LABOR-4Q	2.1	2.5	53	1.4	0
TRACTOR-1Q	2.1	1.8	0.5	1.7	0
TRACTOR-2Q	1.9	2.8	7.1		3.
TRACTOR-3Q	2.1	10.8	1.7	7.1	3.
TRACTOR-4Q	2.1	2.5	0.4	1.4	0

NITROGEN		19.6	45.9		30
PHOSPHATE		50	74.4		75
S-CHICKPEA	129.3	90.2			
CHICK-PEA	0.8	1			
S-DRYBEAN			89.9		
DRY-BEAN			1.3		
S-LENTIL				70	
LENTIL				0.8	
S-DRYPEA					120
DRY-PEA					1.5
F-PULSES	0.9	1.5	1.7	0.8	1.5
+	SLENTLDG	SEPOTAIL	SEPOTAIH		
DRY-VGOOD	0	0	0		
DRY-GOOD	1	0	0		
DRY-EITH	1	0	0		
IRR-GOOD	0	0	1		
IRR-POOR	0	1	0		
IRR-EITH	0	1	1		
A-LENTIL	1	0	0		
A-EARPOT	0	1	1		
LABOR-1Q	7.5	109	109		
LABOR-2Q	207.9	489	489		
LABOR-3Q	82.8	72	72		
LABOR-4Q	0.1	3.2	3.2		
TRACTOR-1Q	3.4	23.5	23.5		
TRACTOR-2Q	4.5	12.3	12.3		
TRACTOR-3Q	2.8	.9	.9		
TRACTOR-4Q		3.2	3.2		
NITROGEN	29.9	300	300		
PHOSPHATE	54.1	175	175		
S-LENTIL	68.9				
LENTIL	1				
F-PULSES	1.6				
S-EARLYPOT		2100	2100		
EARLY-POT		20.0	30.0		

+	SDPEASIL	SPOTATIL	SPOTATIH	SONIONDV	SONIONIL
DRY-VGOOD				1	
DRY-GOOD					
DRY-EITH				1	
IRR-GOOD	1		1		
IRR-POOR		1			1
IRR-EITH	1	1	1		1
A-DRYPEA	1				
A-POTATO		1			
A-EARPOT			1		
A-ONION-				1	1
LABOR-1Q	3	15.2	58.8	145.7	315.3
LABOR-2Q	175	230	356.8	205.6	301
LABOR-3Q	200	343.6	97.7	497.5	389.5
LABOR-4Q	0	21	141.2		185.2
TRACTOR-1Q	0	0.9	12.3	5.7	7.9
TRACTOR-2Q	3.	5.9	24.7		
TRACTOR-3Q	3.	10.3	0.4	3.3	2.8
TRACTOR-4Q	0	4.6	22.9		4.7
NITROGEN	30	101.6	279.5	60	99.2
PHOSPHATE	75	73.7	210.5	80	99.1
S-DRYPEA	150				
DRY-PEA	2.0				
S-POTATO		1680.4	2300		
POTATO		20.0	38.0		
S-ONION				310	200
ONION				9.3	18.3
F-PULSES	2.0				

+	STOMATIL	STOMATIH	SAUBERIH	SMELONDP	SMELONDV
DRY-VGOOD					1
DRY-GOOD					
DRY-EITH				1	1

IRR-GOOD		1	1		
IRR-POOR	1				
IRR-EITH	1	1	1		
A-CTOMAT	1				
A-FTOMAT		1			
A-AUBERG			1		
A-MELON-				1	1
LABOR-1Q	2.9	92.8	327.1	0.3	59.9
LABOR-2Q	393.9	588.7	787.6	133.4	68.8
LABOR-3Q	994.8	438.3	397.2	57.2	15.07
LABOR-4Q	3.2	138		39.1	
TRACTOR-1Q	2.9	11.8	50.3	0.3	11.15
TRACTOR-2Q	5.3	16	14.4	9.5	43.75
TRACTOR-3Q	25.1	21.2	47.4	8	1.6
TRACTOR-4Q	3.2	1.8		7.5	
NITROGEN	102.4	194.1	311	43.7	79.6
PHOSPHATE	79.2	49.4	124	31.8	55.6
S-FRETOMAT		30.0			
S-CONTOMAT	30.0				
FRE-TOMATO		25.5			
CON-TOMATO	35.5				
S-AUBERGIN			20.		
AUBERGINE			33.9		
S-MELON				5.8	6.8
MELON				10.6	19.7

+	SMELONIL	SMELONIH	SGRUDNIH	SSESAMDG
DRY-VGOOD				
DRY-GOOD				1
DRY-EITH				1
IRR-GOOD		1	1	
IRR-POOR				
IRR-EITH	1	1	1	
A-MELON-	1	1		
A-GRUNDN			1	
A-SESAME				1
LABOR-1Q	0.7	6.1	31.4	4.4
LABOR-2Q	90.1	374.5	170.9	13.9
LABOR-3Q	189.1	208.8	330.9	80.0
LABOR-4Q	2.2	1.7	278.4	321.9
TRACTOR-1Q	0.7	6.1	10.1	4.4
TRACTOR-2Q	6.4	17.9	5.4	2.9
TRACTOR-3Q	11.1	4.8	1.5	0.0
TRACTOR-4Q	2.2	1.7	6.9	6.9
NITROGEN	35.7	136.1	40.0	105.0
PHOSPHATE	64.6	73.1	70.0	0.0
S-MELON	4.6	5.0		
S-GRUNDNUT			130.0	
S-SESAME				60.0
MELON	12.2	15.7		
GROUNDNUT			2.4	
SESAME				1.0

+	SWMELOIL	SWMELOIH	SWMELODV	SWMELODP
DRY-VGOOD			1	
DRY-GOOD				
DRY-EITH			1	1
IRR-GOOD		1		
IRR-POOR				
IRR-EITH	1	1		
A-WMELON	1	1	1	1
LABOR-1Q	3.1	6.1	4.1	3.1
LABOR-2Q	89.9	375.2	81.1	204
LABOR-3Q	261.6	206.0	110.1	88
LABOR-4Q	3.1	0.0	0	
TRACTOR-1Q	3.1	6.1	4.1	3.1
TRACTOR-2Q	4.8	16.4	13.6	1.1
TRACTOR-3Q	1.6	4.8	2.7	2.6

TRACTOR-4Q	3.1	0.0	0		
NITROGEN	100.0	136.1	80	50.0	
PHOSPHATE	60.0	73.1	55	20.0	
S-WATMELON	4.6	5.0	4.5	3.5	
WAT-MELON	18.3	21.7	12.9	9.5	
+	SCARROIL	SCABBAIL	SLEEKIL	SOKRAIL	SSQUASIL
IRR-GOOD					
IRR-POOR	1	1	1	1	1
IRR-EITH	1	1	1	1	1
A-CARROT	1				
A-CABBAG		1			
A-LEEK			1		
A-OKRA				1	
A-SQUASH					1
LABOR-1Q	117.0	225.8		160.4	
LABOR-2Q	257.9			268.4	549.6
LABOR-3Q	162.0	157.5	388.4	10.0	324.0
LABOR-4Q	0.0	32.4	198.0	193.5	
TRACTOR-1Q	17.2			18.0	
TRACTOR-2Q					20.8
TRACTOR-3Q	3.3	18.2	17.2		2.7
TRACTOR-4Q	3.2	1.8	2.8	1.8	
NITROGEN	95.0	108.0	108	108.0	108.0
PHOSPHATE	75.2	72.0	72	72.0	72.0
S-CARROT	7.5				
S-CABBAGE		75.0			
S-LEEK			4		
S-OKRA				46.0	
S-SQUASH					4
CARROT	23.0				
CABBAGE		30			
LEEK			58		
OKRA				7.0	
SQUASH					33.0
+	SLETTUIL	SSPINAIL	SCUCUMIL	SPEPPEIL	
IRR-GOOD					
IRR-POOR	1	1	1	1	
IRR-EITH	1	1	1	1	
A-LETTUC	1				
A-SPINAC		1			
A-CUCUMB			1		
A-PEPPER				1	
LABOR-1Q	108.9	56.2	4.0	3.3	
LABOR-2Q	193.5	128.0	333.4	344.2	
LABOR-3Q		51.8	859.2	998.7	
LABOR-4Q	135.5	103.5	3.5		
TRACTOR-1Q		8.6	4.0	3.3	
TRACTOR-2Q	3.3	3.3	1.9	6.8	
TRACTOR-3Q			9.5	5.6	
TRACTOR-4Q	17.5	4.4	3.5		
NITROGEN	108.4	100.0	90	110	
PHOSPHATE	72.2	71.4	90	110	
S-LETTUCE	80.0				
S-SPINACH		15			
S-CUCUMBER			5.5		
S-PEPPER				36	
LETTUCE	36				
SPINACH		15.5			
CUCUMBER			27.4		
PEPPER				22.6	

+	SCAUFLIP	SSUNFLDP	SSUNFLIL	SSBEANI	SLINSEDG
DRY-VGOOD					
DRY-GOOD					1
DRY-EITH		1			1
IRR-GOOD	1				

IRR-POOR			1		
IRR-EITH	1		1	1	
A-CAULIF	1				
A-SUNFLR		1	1		
A-SBEAN-				1	
A-LINSEE					1
LABOR-1Q	3.5	0.6	3	0	52.3
LABOR-2Q	229	48.8	42.5	0	50.6
LABOR-3Q	550	2.5	37.9	97.2	50.6
LABOR-4Q	0	2.3	4.4	182.1	9.0
TRACTOR-1Q	3.3	0.5	3	0	0
TRACTOR-2Q	6.8	1.1	8.1	0	0.3
TRACTOR-3Q	5.6	1.2	0.9	5.1	0.3
TRACTOR-4Q	0	2.3	2.4	6.2	5.5
NITROGEN	90	33.8	51.9	60.	50.0
PHOSPHATE	80	49.8	42.8	20.0	60.0
S-CAULIFLW	40				
CAULIFLOWR	15				
S-SUNFLWER		5.8	13		
SUNFLOWER		0.7	1.6		
S-SOYABEAN				80	
SOYABEAN				2.1	
S-LINSEED					60.0
LINSEED					0.92
+	SSUNFLDG	SSUNFLDV			

DRY-VGOOD		1			
DRY-GOOD	1				
DRY-EITH	1	1			
IRR-GOOD					
IRR-POOR					
IRR-EITH					
A-SUNFLR	1	1			
LABOR-1Q	1.7	3.2			
LABOR-2Q	35.4	66.9			
LABOR-3Q	23.7				
LABOR-4Q	5.6	3.3			
TRACTOR-1Q	1.7	3.2			
TRACTOR-2Q	6	6.1			
TRACTOR-3Q	0.8				
TRACTOR-4Q	5.1	1.9			
NITROGEN	45.9	52.4			
PHOSPHATE	54	49			
S-SUNFLWER	14.7	14.0			
SUNFLOWER	1.4	1.4			
+	SCOLZAIP	SCOTTNIH	STOBACDG	SSBEETIL	STOBACDV

DRY-VGOOD					1
DRY-GOOD			1		
DRY-EITH			1		1
IRR-GOOD		1			
IRR-POOR					
IRR-EITH	1	1		1	
A-COLZA-	1				
A-COTTON		1			
A-TOBACO			1		1
A-SRBEET				1	
LABOR-1Q	6.0	3.9		15.8	20.6
LABOR-2Q	146.8	253.6	535.8	514.9	912.2
LABOR-3Q	124.8	167	1093.7	199.1	1488.3
LABOR-4Q	2.8	487.3	72.9	331.0	123.9
TRACTOR-1Q	3.2	2.6		4.2	.7
TRACTOR-2Q	1.3	5.1	7.6	2.2	11.6
TRACTOR-3Q	0.8	14.4	2.6	4.3	
TRACTOR-4Q	2.8	6.4	1	12.0	0.1
NITROGEN	80.0	146.1		214.9	
PHOSPHATE	70.0	78.8		188.5	
S-COLZA	5.0				

COLZA	1.65				
S-COTTON		66.8			
COTTON		2.77			
S-TOBACCO			200.0		210.0
TOBACCO			0.8		0.9
S-SUGRBEET				10.7	
SUGARBEET				44.1	
+	SALFALI	SVETFODP	SVETGRDP	PASTUSE	
DRY-VGOOD					
DRY-GOOD					
DRY-EITH		1	1		
IRR-GOOD					
IRR-POOR					
IRR-EITH	1				
A-ALFALF	1				
A-VETCHF		1			
A-VETCHG			1		
PASTURE				1	
LABOR-1Q		38.7	38.7	3	
LABOR-2Q	137.5	45.3	0.0	6	
LABOR-3Q	211.3	0.0	60.0	4	
LABOR-4Q	7.4	0.0	0.0	2	
TRACTOR-1Q		7.2	7.2		
TRACTOR-2Q	3.2	2.2	0.0		
TRACTOR-3Q	3.2	0.0	4.5		
TRACTOR-4Q		0.0	0.0		
NITROGEN	10.9	27.	27		
PHOSPHATE	93.3	54.	54		
S-ALFALFA	15.0				
ALFALFA	11.8				
S-VETCH		100.0	100		
VETCH-FOD		8.5			
VETCH-GRA			2.2		
F-VETCHG			3.3		
PASTFEED				0.25	

+	SCRSILI	SSORGHI	SSOSILI
DRY-VGOOD			
DRY-GOOD			
DRY-EITH			
IRR-GOOD			
IRR-POOR			
IRR-EITH	1	1	1
A-CORSIL	1		
A-SORGHU		1	
A-SORSIL			1
LABOR-1Q			
LABOR-2Q	6.7	6.7	6.7
LABOR-3Q	537.2	437.2	437.2
LABOR-4Q	485.0	190.0	485.0
TRACTOR-1Q			
TRACTOR-2Q	6.7	6.7	6.7
TRACTOR-3Q	2.2	2.2	2.2
TRACTOR-4Q	2.7	2.7	2.7
NITROGEN	140.0	140.0	140.0
PHOSPHATE	72.0	72.0	72.0
S-CORN	40.0		
CORN-SIL	47.0		
S-SORGHUM		60	60
SORGHUM		5.5	
SORGH-SIL			50

+	PISTA-D	HAZEL-D	TOLIV-D	OOLIV-D	TEA---D
TREE	1	1	1	1	1
A-PISTAC	1				
A-HAZELN		1			
A-TOLIVE			1	0	0

A-OOLIVE				1	
A-TEA---					1
LABOR-1Q	51	3.1	15.5	15.5	100.8
LABOR-2Q	1.8	69	8.8	8.8	232.9
LABOR-3Q	161	360.5	1.9	1.9	0
LABOR-4Q	114	10.6	122.5	122.5	145.1
TRACTOR-1Q	12	0	3.1	3.1	0
TRACTOR-2Q	1.8	0	3.1	3.1	0
TRACTOR-3Q	1.0	9.4	0	0	0
TRACTOR-4Q	0	0	1.9	1.9	0
NITROGEN	0	98.6	7.6	7.6	193.1
PHOSPHATE	20	31.6	5.7	5.7	0
PISTACHIO	0.30				
HAZELNUT		1.32			
TAB-OLIVE			1.7		
OIL-OLIVE				1.8	
TEA					6.82

+	TGRAPDV	TGRAPIH	TGRAPIL	WGRAPDG	SULTA-I
TREE	1	1	1	1	1
A-TGRAPE	1	1	1	0	0
A-WGRAPE	0	0	0	1	0
A-SULTAN	0	0	0	0	1
LABOR-1Q	370.5	158.9	186.0	33.9	158.9
LABOR-2Q	173.2	85.5	337.3	50.4	85.5
LABOR-3Q	352.9	542.4	165.7	36.4	479.5
LABOR-4Q	0	123.7	58.6	13.3	123.7
TRACTOR-1Q	0	18.0	2.0	1.0	19.5
TRACTOR-2Q	3.6	1.9	5.8	2.0	1.9
TRACTOR-3Q	3.6	22.5	4.4	8.0	18.0
TRACTOR-4Q	0	0	0.6	0	0
NITROGEN	47.5	114.9	64.0	51.0	114.9
PHOSPHATE	47.5	51.5	68.4	65	51.5
TAB-GRAPE	10.3	14.5	7.5		
WINE-GRAPE				6.8	
SULTANA					12.0

+	FFIGS-I	DFIGS-I	ORANG-I	LEMON-I
TREE	1	1	1	1
A-FFIGS-	1	0	0	0
A-DFIGS-	0	1	0	0
A-ORANGE	0	0	1	0
A-LEMON-	0	0	0	1
LABOR-1Q	54.6	54.6	671	671
LABOR-2Q	49.3	49.3	311	311
LABOR-3Q	655.7	369.4	181	181
LABOR-4Q	5.2	180.9	474	474
TRACTOR-1Q	0	0	4.6	4.6
TRACTOR-2Q	13.3	13.5	0	0
TRACTOR-3Q	10.3	3.5	0	0
TRACTOR-4Q	0	0	4.6	4.6
NITROGEN	11.7	11.7	152	152
PHOSPHATE	7.7	7.7	152	152
FRE-FIGS	12.64	0		
DRY-FIGS		12.64		
ORANGE			22.7	
LEMON				25.0

+	SAPPLEIL	PEARS-I	FPEAC-I	PPEAC-I	SAPRICIL	SAPRICIH
TREE	1	1	1	1	1	1
A-APPLE-	1					
A-PEARS-		1				
A-FPEACH			1			
A-PPEACH				1		
A-APRICO					1	1
LABOR-1Q	114.9	160	320.04	175.4	151.2	16.2
LABOR-2Q	83.7	75	189.9	151.4	647.9	204.6
LABOR-3Q	46.9	200	630.24	721.7	55.4	367.7
LABOR-4Q	145.7	300		36.3		
TRACTOR-1Q	6.5	10	21.04	5	8.6	
TRACTOR-2Q	3.5	0	3	7.8	1.4	0.9

TRACTOR-3Q	2.2	0	27.34	10.1	8.6	0.9
TRACTOR-4Q	1.3	0		7.8		
NITROGEN	45.6	75	110.9	30	87	40
PHOSPHATE	59.2	75	24.3	90	61.3	50
APPLE	10					
PEARS		7.5				
FRE-PEACH			9.5			
PRO-PEACH				12.75		
APRICOT					10.7	6.4

+	SCHERRIL	SWCHERIL	SCHERRIH	POMEGR-I
TREE	1	1	1	1
A-CHERRY	1		1	
A-WDCHER		1		
A-POMEGR				1
LABOR-1Q	207.15	132.85	113.4	240.3
LABOR-2Q	636.85	171.9	1371.7	186.7
LABOR-3Q		1079.6	17	476.8
LABOR-4Q			12	696.7
TRACTOR-1Q	15.3	4.75		
TRACTOR-2Q	15.5	19.65	15.5	
TRACTOR-3Q		2.8	17	
TRACTOR-4Q			12	6.8
NITROGEN	187.5	5	50	62.7
PHOSPHATE	180.2	80	40	68.1
CHERRY	6.93		7.68	
WILDCHERRY		7.45		
POMEGRAN				8.5

+	SHEEP	GOAT	ANGORA	CATTLE	BUFFALO
LABOR	11.53	10.53	10.2	110	120
ANIMAL	0	0	0	38	52
TENE	119.4	117.1	113.7	606.7	637.7
TPAST	8	8	8	8	8
TGRCONOIL	32	30	30	40	40
TGROIL	26	26	26	32	35
TOIL	1	1	1	1	1
TSTRAW	10	10	8	12	12
TFODD	4	4	2	6	5
SHEEP-MEAT	8.647	0	0	0	0
SHEEP-MILK	28.765	0	0	0	0
SHEEP-WOOL	1.283	0	0	0	0
SHEEP-HIDE	0.780	0	0	0	0
GOAT-MEAT	0	6.064	0	0	0
GOAT-MILK	0	33.477	0	0	0
GOAT-WOOL	0	0.435	0	0	0
GOAT-HIDE	0	0.590	0	0	0
ANGOR-MEAT	0	0	3.139	0	0
ANGOR-MILK	0	0	11.000	0	0
ANGOR-WOOL	0	0	1.184	0	0
ANGOR-HIDE	0	0	0.241	0	0
COW-MEAT	0	0	0	28.847	0
COW-MILK	0	0	0	662.008	0
COW-HIDE	0	0	0	3.399	0
BUFAL-MEAT	0	0	0	0	36.183
BUFAL-MILK	0	0	0	0	450.678
BUFAL-HIDE	0	0	0	0	5.536

+	POULTRY
LABOR	5
ANIMAL	0
TENE	25
TPAST	4
TGRCONOIL	72
TGROIL	65
TOIL	4
TSTRAW	5
TFODD	0
POLTR-MEAT	2.240
EGGS	5.315

APPENDIX E 11:

MODEL DATA FOR THE REST OF TURKEY

PRODUCTION AREA AND PRICES FOR THE BASE YEAR

TABLE DOM DOMESTIC PRODUCTION DATA

	DPROD	AREA	YIELDS	DPRICES
COMWHEAT	17425.00	8019.75	2.173	150.00
DURWHEAT	3075.00	1415.25	2.173	158.00
CORN	2000.00	493.25	4.000	163.00
RYE	280.00	180.00	1.556	123.00
BARLEY	7500.00	3445.00	2.177	132.20
RICE	157.50	51.00	3.088	632.40
CHICK-PEA	777.50	778.00	0.999	377.67
DRY-BEAN	211.00	176.00	1.199	949.00
LENTIL	1040.00	983.00	1.058	414.50
DRY-PEA	4.5	2.00	2.250	437.00
POTATO	971.98	39.20	24.770	147.32
EARLY-POT	3379.02	156.80	21.550	169.42
ONION	1345.00	75.00	17.933	169.00
FRE-TOMATO	4200.00	127.27	33.000	312.00
CON-TOMATO	1050.00	23.69	44.330	250.00
AUBERGINE	730.00	21.53	33.900	352.00
MELON	1950.00	130.00	15.000	201.00
CAULIFLOWR	67.00	4.45	15.000	450.00
WAT-MELON	3300.00	206.00	16.020	143.00
CARROT	157.00	6.80	23.000	285.00
CABBAGE	510.00	17.00	30.000	191.00
CUCUMBER	800.00	29.20	27.400	350.00
OKRA	21.00	3.00	7.000	881.00
PEPPER	730.00	32.30	22.600	420.00
LETTUCE	135.00	3.75	36.000	200.00
SPINACH	140.00	9.03	15.500	274.00
SQUASH	300.00	9.10	33.000	288.00
LEEK	310.00	5.40	58.000	220.00
GROUNDNUT	60.00	23.50	2.553	582.00
SESAME	45.00	94.00	0.479	1021.00
SUNFLOWER	1150.00	750.00	1.533	336.00
SOYABEAN	150.00	66.00	2.273	248.00
LINSEED	3.35	4.90	0.684	366.24
COLZA	1.40	1.23	1.138	300.00
COTTON	1395.64	585.80	2.382	678.40
TOBACCO	211.69	238.71	0.887	2904.00
SUGARBEET	11534.15	317.25	36.356	33.00
PISTACHIO	30.00	42.86	0.350	4884.00
HAZELNUT	402.50	359.38	1.120	1628.00
TAB-OLIVE	218.00	128.39	1.698	1891.00
OIL-OLIVE	882.00	547.49	1.611	1378.33
TEA	752.66	86.29	8.722	1250.00
TAB-GRAPE	3000.00	561.18	5.346	209.00
WINE-GRAPE	1111.00	171.80	6.500	200.00
SULTANA	1116.67	310.20	3.600	215.00
FRE-FIGS	70.00	5.55	12.640	494.00
DRY-FIGS	280.00	109.80	2.550	494.00
ORANGE	740.00	32.60	22.700	365.67
LEMON	360.00	18.00	20.00	443.00
APPLE	1950.00	195.00	10.00	333.50
PEARS	410.00	41.00	10.00	415.00
FRE-PEACH	295.20	31.07	9.50	400.00
PRO-PEACH	32.80	2.57	12.7	400.00
APRICOT	284.00	45.00	6.31	505.00
CHERRY	135.00	18.00	7.50	544.00
WILDCHERRY	80.00	10.70	7.45	432.00
POMEGRAN	48.00	5.65	8.50	250.00
SHEEP-MEAT	392.435	71562.33	7.765	1272.50
SHEEP-MILK	1305.471	71562.33	24.381	391.00
SHEEP-WOOL	58.227	71562.33	1.279	2552.00
SHEEP-HIDE	35.399	71562.33	0.676	3752.00
GOAT-MEAT	66.534	15315.44	6.857	1200.00
GOAT-MILK	367.309	15315.44	37.578	391.00
GOAT-WOOL	4.773	15315.44	0.632	1297.00
GOAT-HIDE	6.473	15315.44	0.484	3750.00

ANGOR-MEAT	6.100	2324.28	1.852	1250.00
ANGOR-MILK	21.360	2324.28	15.177	391.00
ANGOR-WOOL	2.300	2324.28	1.462	4446.00
ANGOR-HIDE	0.470	2324.28	0.173	3750.00
COW-MEAT	362.376	15628.74	24.105	1265.00
COW-MILK	8316.144	15628.74	218.032	335.00
COW-HIDE	42.698	15628.74	4.150	1000.00
BUFAL-MEAT	17.549	608.02	32.724	1260.00
BUFAL-MILK	218.579	608.02	288.969	335.00
BUFAL-HIDE	2.685	608.02	3.521	1000.00
POLTR-MEAT	143.31	63986.95	2.240	2182.00
EGGS	340.08	63986.95	5.315	1560.00
ALFALFA	2132.26	184.07	11.590	0
VETCH-FOD	896.46	350.19	2.560	0
VETCH-GRA	204.20	350.19	0.580	
CORN-SIL	405.69	6.75	60.000	
SORGHUM	0.1			
SORGH-SIL	0.1			

APPENDIX E 12:

MODEL DATA FOR THE REST OF TURKEY

FOREIGN TRADE

TABLE TRADE FOREIGN TRADE DATA

	EXP-Q	EXP-P	PFACT10
COMWHEAT	1478.00	81.75	1.46
DURWHEAT	1005.00	86.80	1.46
CORN		110.00	1.39
RYE	0.12	77.27	1.39
BARLEY	452.73	88.83	1.39
RICE			1.72
CHICK-PEA	536.42	221.58	1.15
DRY-BEAN	33.75	460.48	1.15
LENTIL	606.49	220.30	1.16
DRY-PEA	0.29	311.17	1.15
POTATO	3.43	40.00	1.15
EARLY-POT	10.00	45.00	1.15
ONION	164.01	76.56	1.24
FRE-TOMATO	148.55	114.63	1.24
CON-TOMATO	589.67	114.63	1.24
AUBERGINE	2.09	291.31	1.24
MELON	29.04	140.45	1.24
CAULIFLOWR	1.14	144.17	1.24
WAT-MELON	14.51	117.10	1.24
CARROT	8.00	123.83	1.24
CABBAGE	2.41	130.05	1.24
CUCUMBER	7.45	379.15	1.24
OKRA	1.01	476.46	1.24
PEPPER	15.13	478.38	1.24
LETTUCE	0.77	109.68	1.24
SPINACH	0.08	168.90	1.24
SQUASH	0.78	269.39	1.24
LEEK	10.98	147.52	1.24
GROUNDNUT	9.40	772.65	1.43
SESAME			1.22
SUNFLOWER		250.00	1.22
SOYABEAN			1.19
LINSEED	0.10	676.53	1.19
COLZA			
COTTON	325.92	923.77	1.18
TOBACCO	64.16	2679.29	1.14
SUGARBEET		30.00	1.55
PISTACHIO	8.74	2576.49	1.12
HAZELNUT	330.55	1476.29	1.12
TAB-OLIVE	15.69	519.03	1.20
OIL-OLIVE	103.89	519.03	1.20
TEA	1.60	250.00	1.10
TAB-GRAPE	17.43	211.48	1.20
WINE-GRAPE	11.51	121.17	1.12
SULTANA	514.18	230.86	1.12
FRE-FIGS	3.71	366.33	1.20
DRY-FIGS	48.72	366.33	1.12
ORANGE	87.20	160.62	1.20
LEMON	123.93	182.48	1.20
APPLE	68.08	150.74	1.2
PEARS		150.00	1.2
FRE-PEACH	7.00	148.96	1.2
PRO-PEACH	0.07	148.76	1.12
APRICOT	138.07	214.81	1.2
CHERRY	3.69	517.16	1.2
WILDCHERRY	9.13	716.89	1.2
POMEGRAN	3.63	215.45	1.2
SHEEP-MEAT	164.79	1756.64	1.5
SHEEP-MILK			1.45
SHEEP-WOOL			1.2
SHEEP-HIDE			1.2
GOAT-MEAT	10.03	1832.86	1.5
GOAT-MILK			
GOAT-WOOL	1.79	3500.00	1.2
GOAT-HIDE			1.2

ANGOR-MEAT	3.00	1832.86	1.5
ANGOR-MILK			
ANGOR-WOOL	1.5	4467.72	1.25
ANGOR-HIDE			1.2
COW-MEAT			1.5
COW-MILK			
COW-HIDE			
BUFAL-MEAT			
BUFAL-MILK			
BUFAL-HIDE			
POLTR-MEAT	1.60	617.17	1.33
EGGS	9.69	781.81	1.18

+	IMP-Q	IMP-P
COMWHEAT		
DURWHEAT		
CORN	243.96	121.48
RYE		
BARLEY		
RICE	90.90	207.00
CHICK-PEA		
DRY-BEAN		
LENTIL		
DRY-PEA		
POTATO		
EARLY-POT		
ONION		
FRE-TOMATO		
CON-TOMATO		
AUBERGINE		
MELON		
CAULIFLOWR		
WAT-MELON		
CARROT		
CABBAGE		
CUCUMBER		
OKRA		
PEPPER		
LETTUCE		
SPINACH		
SQUASH		
LEEK		
GROUNDNUT		
SESAME	5.06	627.74
SUNFLOWER	247.60	379.92
SOYABEAN	123.14	932.00
LINSEED		
COLZA		
COTTON		
TOBACCO		
SUGARBEET	484.59	39.500
PISTACHIO		
HAZELNUT		
TAB-OLIVE		
OIL-OLIVE		
TEA		
TAB-GRAPE		
WINE-GRAPE		
SULTANA		
FRE-FIGS		
DRY-FIGS		
ORANGE		
LEMON		
APPLE		
PEARS		
FRE-PEACH		
PRO-PEACH		

APRICOT		
CHERRY		
WILDCHERRY		
POMEGRAN		
SHEEP-MEAT		
SHEEP-MILK	0.44	1047.67
SHEEP-WOOL	29.39	1500.00
SHEEP-HIDE	29.49	2380.61
GOAT-MEAT		
GOAT-MILK		
GOAT-WOOL		
GOAT-HIDE	3.00	2519.66
ANGOR-MEAT		
ANGOR-MILK		
ANGOR-WOOL		
ANGOR-HIDE	0.77	2519.66
COW-MEAT	258.34	1389.75
COW-MILK	7.00	1047.67
COW-HIDE		
BUFAL-MEAT		
BUFAL-MILK		
BUFAL-HIDE		
POLTR-MEAT		
EGGS		

TABLE TRADE2010 FOREIGN TRADE DATA

	EXP-Q	EXP-P	ECX-Q	ECX-P	INT-Q	INT-P	WOX-Q	WOX-P
COMWHEAT	1500.00	88.00	16	207	530	168	9999	88
DURWHEAT	1000.00	330.00	300	332	500	331	2500	330
CORN	650.00	108.00	4300	243	0	181	9999	108
RYE	2.10	134.00	0	209	36	167	120	134
BARLEY	2000.00	86.00	45	200	205	160	1000	86
RICE		289.00	330	351	10	306	10	289
CHICK-PEA	700.00	227.00	250	228			350	227
DRY-BEAN	110.00	503.00	15	504		363	9999	503
LENTIL	610.00	619.00	50	578			50	619
DRY-PEA	0.30	418.00	45	293		282	9999	418
POTATO	100.00	38.00	1	152			5	38
EARLY-POT	200.00	95.00	1	289			15	95
ONION	350.00	76.00	15	209			160	76
FRE-TOMATO	400.00	143.00	25	456	9999	45	9999	143
CON-TOMATO	1100.00	109.00	9	243		138	1000	109
AUBERGINE	4.80	369.00	2	363	9999	74	5	369
MELON	60.00	134.00	20	469			30	110
CAULIFLOWR	1.50	190.00	0	547	9999	70	2	190
WAT-MELON	30.00	112.00						
CARROT	10.00	154.00						
CABBAGE	3.00	162.00						
CUCUMBER	10.00	474.00						
OKRA	1.50	595.00						
PEPPER	30.00	598.00						
LETTUCE	1.00	137.00						
SPINACH	0.10	211.00						
SQUASH	1.00	336.00						
LEEK	12.00	184.00						
GROUNDNUT	30.00	618.00						
SESAME								
SUNFLOWER	80.00	257.00	230	258		572	1500	257
SOYABEAN		246.00	150	247		462	750	246
LINSEED	2.00	127.00	6	128		579	750	127
COLZA		203.00	3	204		381	25	203
COTTON	700.00	515.00	500	516		986	200	515
TOBACCO	150.00	1980.00	10	2387	10	2160	100	1980
SUGARBEET	600.00	37.00	600	39	1086	38	9999	37
PISTACHIO	15.00	2456.00	5	2457			9	2456
HAZELNUT	350.00	1397.00	200	1398			160	1397
TAB-OLIVE	22.00	493.00	7	494			15	493
OIL-OLIVE	150.00	406.00	10	407	24	406	100	406

TEA	30.00	503.00	1	504			1	503
TAB-GRAPE	50.00	201.00	5	585		118	10	201
WINE-GRAPE	30.00	110.00	3	111	48	99	50	110
SULTANA	1000.00	219.00	300	218	0	384	500	219
FRE-FIGS	8.00	314.00	2	793			4	314
DRY-FIGS	100.00	348.00	30	370		916	30	348
ORANGE	400.00	153.00	30	280	1	121	9999	153
LEMON	280.00	173.00	20	560	54	113	9999	173
APPLE	260.00	143.00	50	421	59	82	50	143
PEARS	260.00	165.00	50	469	18	70	1	165
FRE-PEACH	22.00	143.00	1	462	59	78	9999	143
PRO-PEACH	0.20	119.00	0	301	0	196	9999	119
APRICOT	280.00	203.00	100	718	2	112	9999	203
CHERRY	4.00	491.00	1	1285			4	491
WILDCHER	10.00	681.00	5	638			5	681
POMEGRAN	8.40	210.00						
SHEEP-MEAT	525.00	883.00	8	1336	10	1005	150	883
SHEEP-MILK		132.00	0	461	0	252	1	132
SHEEP-WOOL		1464.00	1	974			2	1464
SHEEP-HIDE		5372.00	1	4286			1	5372
GOAT-MEAT	33.00	883.00	0	1256	1	966	15	883
GOAT-MILK		132.00	0	301	0	236	5	132
GOAT-WOOL	2.00	3675.00	1	2448			2	3675
GOAT-HIDE		5372.00	1	4286			1	5372
ANGOR-MEAT	9.00	883.00	0	1256	0	966	5	883
ANGOR-MILK		132.00	0	301	0	236	1	132
ANGOR-WOOL	1.75	4620.00	2	3076			5	4620
ANGOR-HIDE		5373.00	0	4287			1	5373
COW-MEAT		1568.00	5	1413	0	1128	10	1568
COW-MILK		132.00	1	343	10	252	2	132
COW-HIDE		2027.00	1	1621			1	2027
BUFAL-MEAT		1568.00	0	1413	0	1128	1	1568
BUFAL-MILK		132.00	0	343	0	252	1	132
BUFAL-HIDE		2027.00	0	1621			1	2027
POLTR-MEAT	58.00	1030.00	1	1177			1	1030
EGGS	60.00	330.00	1	835			10	330

+	IMP-Q	IMP-P	ECM-Q	ECM-P	WOM-Q	WOM-P	PRO-S
COMWHEAT		89	9999	208	9999	209	
DURWHEAT		331	9999	333	9999	334	64
CORN		109	0	244	9999	245	
RYE		135	9999	210	9999	211	
BARLEY		86	9999	201	9999	202	
RICE	600.00	290	0	352	9999	353	
CHICK-PEA		228	0	229	9999	230	
DRY-BEAN		504	0	505	9999	506	49
LENTIL		620	0	579	9999	580	
DRY-PEA		419	0	294	9999	295	47
POTATO		39	100	153	0	154	
EARLY-POT		96	100	290	0	291	
ONION		77	100	210	0	211	
FRE-TOMATO		144	100	449	50	450	
CON-TOMATO		110	9999	244	9999	245	57
AUBERGINE		370	0	364	9999	365	
MELON		111	0	470	0	471	
CAULIFLOWR		191	0	548	20	549	
WAT-MELON							
CARROT							
CABBAGE							
CUCUMBER							
OKRA							
PEPPER							
LETTUCE							
SPINACH							
LEEK							
GROUNDNUT							
SESAME	10.00	458					
SUNFLOWER		258	0	259	9999	260	170

SOYABEAN	2100.00	247	0	248	9999	249	136
LINSEED		128	0	129	9999	130	228
COLZA		204	0	205	9999	206	110
COTTON		516	0	517	9999	518	284
TOBACCO		1981	50	2388	9999	2389	1194
SUGARBEET		38	9999	40	9999	41	
PISTACHIO		2457	0	2458	9999	2459	
HAZELNUT		1398	0	1399	9999	1400	
TAB-OLIVE		494	0	495	9999	496	
OIL-OLIVE		407	9999	408	9999	409	248
TEA		504	0	505	9999	506	
TAB-GRAPE		502	0	586	9999	587	
WINE-GRAPE		111	9999	112	9999	113	
SULTANA		220	0	219	9999	220	95
FRE-FIGS		315	0	794	9999	795	
DRY-FIGS		349	0	371	9999	372	193
ORANGE		154	10	281	9999	282	
LEMON		174	20	561	9999	562	
APPLE		144	20	422	9999	423	
PEARS		166	20	470	9999	471	
FRE-PEACH		144	20	463	9999	464	
PRO-PEACH		120	100	302	9999	303	120
APRICOT		204	20	719	9999	720	
CHERRY		492	0	1286	9999	1287	
WILDCHER		682	0	639	9999	640	
POMEGRAN							
SHEEP-MEAT		884	0	1337	9999	1338	551
SHEEP-MILK	2.00	133	10	462	9999	463	
SHEEP-WOOL	64.00	1465	100	975	9999	976	
SHEEP-HIDE	30.00	5373	100	4287	9999	4288	
GOAT-MEAT		8844	0	1257	9999	1258	551
GOAT-MILK		133	10	302	9999	303	
GOAT-WOOL		3676	0	2449	9999	2450	
GOAT-HIDE	3.00	5373	5	4287	9999	4288	
ANGOR-MEAT		884	0	1257	9999	1258	551
ANGOR-MILK		133	0	302	9999	303	
ANGOR-WOOL		4621	0	3077	9999	3078	
ANGOR-HIDE	1.00	5374	0	4288	9999	4289	
COW-MEAT	14.00	1569	9999	1414	9999	1415	18
COW-MILK	7.00	133	9999	344	9999	345	
COW-HIDE		2028	10	1622	9999	1623	
BUFAL-MEAT		1569	0	1414	9999	1415	
BUFAL-MILK		133	0	344	9999	345	
BUFAL-HIDE		2028	0	1622	9999	1623	
POLTR-MEAT		1031	9999	1178	9999	1179	
EGGS		331	350	836	9999	837	

APPENDIX E 13:

MODEL DATA FOR THE REST OF TURKEY

RESOURCES AVAILABILITIES AND PRICES

TABLE RES RESOURCE DATA

	QUANT	PRICE	REINDEX	PQP3	QINDEX2010	PINDEX2010
DRY-VGOOD	1527.00	0	1	1.000		
DRY-GOOD	10552.00	0	1	0.961		
DRY-EITH	16574.00	0	1	0.950		
IRR-GOOD	899.0	0	1	1.463		
IRR-POOR	1878.3	0	1	1.222		
IRR-EITH	2777.3	0	1	1.300		
TREE	1982	0	1	1.070		
PASTURE	21746	0	1	1.000		
LABOR-1Q	2700000	750.0	1	1.010	1.1	
LABOR-2Q	2700000	750.0	1	1.010	1.1	
LABOR-3Q	2700000	750.0	1	1.010	1.1	
LABOR-4Q	2700000	750.0	1	1.010	1.1	
TRACTOR-1Q	247000	7.45	1	1.170	1.1	
TRACTOR-2Q	247000	7.45	1	1.170	1.1	
TRACTOR-3Q	247000	7.45	1	1.170	1.1	
TRACTOR-4Q	247000	7.45	1	1.170	1.1	
LABORG	100000	750.0	1	1.400	1.1	
TRACTORG	3650	7.45	1	3.000	1.1	
NITROGEN	953181	0.312	0.795	2.000	1.1	
PHOSPHATE	519677	0.26	0.508	2.000	1.1	
SHEEP	48707	0	1	0.00019	1.100	
GOAT	13615	0	1	0.00051	1.100	
ANGORA	3112	0	1	0.00001	1.100	
CATTLE	14099	0	1	0.00943	1.100	
BUFFALO	758	0	1	0.15263	1.100	
POULTRY	63987	0	1	0.00006	1.200	
S-COMWHEAT	0	160	1			1.1
S-DURWHEAT		180	1			1.1
S-CORN	0	1800	1			1.1
S-RYE	0	119	1			1.1
S-BARLEY	0	130	1			1.1
S-RICE	0	500	1			1.1
S-CHICKPEA	0	285	1			1.1
S-DRYBEAN	0	950	1			1.1
S-LENTIL	0	325	1			1.1
S-DRYPEA		800	1			1.1
S-POTATO	0	150	1			1.1
S-EARLYPOT		200	1			1.1
S-ONION	0	375	1			1.1
S-FRETOMAT	0	5000	1			1.1
S-CONTOMAT		5000	1			1.1
S-AUBERGIN		7500	1			1.1
S-MELON	0	5750	1			1.1
S-CAULIFLW		25000	1			1.1
S-WATMELON		5750	1			1.1
S-CARROT		40000	1			1.1
S-CABBAGE		2500	1			1.1
S-CUCUMBER		37000	1			1.1
S-OKRA		35000	1			1.1
S-PEPPER		6700	1			1.1
S-LETTUCE		2500	1			1.1
S-SPINACH		3700	1			1.1
S-SQUASH		5900	1			1.1
S-LEEK		44450	1			1.1
S-GRUNDNUT		1300	1			1.1
S-SESAME		1500	1			1.1
S-SUNFLWER	0	600	1			1.1
S-SOYABEAN	0	700	1			1.1
S-LINSEED		500	1			1.1
S-COLZA		400	1			1.1
S-COTTON	0	355	1			1.1
S-TOBACCO	0	3500	1			1.1
S-SUGRBEET	0	1500	1			1.1
S-ALFALFA	0	2000	1			1.1
S-VETCH	0	175	1			1.1

S-SORGHUM		200	1		1.1
PISTA-D	0	500000	1	1.050	1.15
HAZEL-D	0	75000	1	1.050	1.15
TOLIV-D	0	45000	1	1.050	1.15
OOLIV-D		45000	1	1.050	1.15
TEA---D	0	120000	1	1.050	1.15
TGRAPDW	0	145000	1	1.050	1.15
TGRAPIH	0	185000	1	1.050	1.15
WGRAPDG		145000	1	1.050	1.15
WGRAPIL		145000	1	1.050	1.15
SULTA-I		185000	1	1.050	1.15
FFIGS-I		180000	1	1.050	1.15
DFIGS-I		180000	1	1.050	1.15
ORANG-I	0	240000	1	1.050	1.15
LEMON-I		240000	1	1.050	1.15
SAPPLEIL	0	185000	1	1.050	1.15
PEARS-I		185000	1	1.050	1.15
FPEAC-I	0	505000	1	1.050	1.15
PPEAC-I		505000	1	1.050	1.15
SAPRICIL	0	270000	1	1.050	1.15
SAPRICIH		270000	1	1.050	1.15
SCHERRIL	0	360000	1	1.050	1.15
SCHERRIH		360000	1	1.050	1.15
SWCHERIL	0	360000	1	1.050	1.15
POMEGR-I		300000	1	1.050	1.15
* ANNUALIZED SET-UP COSTS FOR GAP					
APPI		185000			1.15
APRI		270000			1.15
CRRI		360000			1.15
FGDI		180000			1.15
FGFI		180000			1.15
GRSI		185000			1.15
GRTD		145000			1.15
GRTI		145000			1.15
GRWD		145000			1.15
OLOD		45000			1.15
OLTD		45000			1.15
PARI		185000			1.15
PCFI		505000			1.15
PCPI		505000			1.15
PISD		500000			1.15
POMI		300000			1.15
WCRI		360000			1.15

APPENDIX F:

MODEL OUTPUT OF TURGAP

(YEAR 2010 - BASE)