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NOTE
1 A POP.K=P1.K+P2.K+P3.K+P4.K
2 L P1.K=P1.3*(DT) (B.JK-D1.JK+MAT1.JK)
3 H P1=PI1
4 C P11=65E7
5 R D1.K=P1.K*M1.E
6 A M1.E=TABHL(M1P.LE,K,20,80,10)
7 T M1P=.0567/.0366/.0143/.0155/.0082/.0023/.001
8 R MAT1.KL=(P1.K) (1-M1.E)/5
9 L P2.K=P2.3*(DT) (MAT1.JK-D2.JK+MAT2.JK)
10 P2=PI2
11 C P21=70E7
12 R D2.K=P2.K*M2.E
13 A M2.E=TABHL(M2P.LE,K,20,80,10)
14 T M2P=.0266/.0171/.0110/.0065/.0040/.0016/.0008
15 R MAT2.KL=(P2.K) (1-M2.E)/30
16 L P3.K=P3.3*(DT) (MAT2.JK-D3.JK+MAT3.JK)
17 P3=PI3
18 C P31=19E7
19 R D3.K=P3.K*M3.E
20 A M3.E=TABHL(M3P.LE,K,20,80,10)
21 T M3P=.0562/.0373/.0252/.0171/.0118/.0083/.006
22 R MAT3.KL=(P3.K) (1-M3.E)/20
23 L P4.K=P4.3*(DT) (MAT3.JK-D4.JK)
24 P4=PI4
25 C P41=6E7
26 R D4.K=P4.K*M4.E
27 A M4.E=TABHL(M4P.LE,K,20,80,10)
28 T M4P=.13/.11/.09/.07/.06/.05/.04
NOTE
NOTE DEATH RATE SUBSECTOR
NOTE
17 A D.K=D1.JK+D2.JK+D3.JK+D4.JK
18 S CDR.K=1000*D.K/POP.K
19 A LE.E=LEN*LMP.K*LMS.K*LMP.K*LMC.K
20 C LEH=28
21 A LMP.K=TABHL(LMPT,PPC.K/SPPC,0,5,1)
22 T LMPT=0/1/1.2/1.3/1.35/1.4
23 A HISAPC.K=TABHL(HISAPCT,SOPC.K,0,2000,200)
24 T HISAPCT=0/20/50/95/145/175/200/220/230
25 A EHSPC.K=SMOOTH(HISAPC.H,HSID)
26 C HSID=20
27 A LMSH.K=CLIP(LMSH2.JK,LMSH1.K,TIME.K,1940)
28 A LMSH1.K=TABHL(LMSH2T,EHSPC.K,0,100,20)
29 T LMSH2T=1/1.1/1.4/1.6/1.7/1.8
30 A LMSH2.K=TABHL(LMSH2T,EHSPC.K,0,100,20)
31 T LMSH2T=1/1.4/1.6/1.8/1.95/2.0
32 A FPPC.K=TABHL(FPPUT,POP.K,5,1605,29)
33 T FPPUT=0/.2/.4/.5/.50/.65/.75/.78/.79
34 A CHIK.K=CHIT,IOPC.K,0,1600,200)
35 T CHIT=5/.05/-.1/.08/-.02/.05/-.1/.15/.2
36 A LMC.K=1-(CHIK.K*FPPC.K)
37 A LMP.K=TABHL(LMPT,FPPC.K,0,100,10)
38 T LMPT=1.0/.99/.97/.95/.90/.85/.75/.65/.55/.40/.20
NOTE
NOTE BIRTH RATE SUBSECTOR
NOTE
39 H B.K=CLIP(D.K,(TF.I*P2.E*0.5/PLT),TIME.K,PEP)
40 C BLT=30
41 C PER=4000
42 S CDR.K=1000*B.K/POP.K
43 A TP.K=MIN(MTP.K,(MTP.E*(1-PCOR.K)+MTP.E*PCOR.E))
44 I MTP.E=MTPM*PM.K
45 C MTPM=12
46 A PM.K=TABHL(PMT,LE,K,0,80,10)
47 T PMT=0/.2/.4/.6/.8/.9/1/1.05/1.1
48 A DTP.H=DCFS.K*CMPLK.E
49 A CMPLK.E=TABHL(CMPLT,PLE,K,0,80,10)
50 T CMPLT=3/2.1/1.6/1.4/1.3/1.2/1.1/0.5/1
51 A PLE.K=DILIMP3(LE,K,LPD)
52 C LPD=20
53 A DCFS.K=CLIP(2.0,DCFSH*FRSN.E*SPSN.E,TIME.E,SPCT)
54 C SPCT=4000
55 A SPSN.K=TABHL(SPUNT,DIOPC.K,0,800,200)
56 T SPUNT=1.25/1/.9/.8/.75
57 A DIOPC.K=DILIMP3(IOPC.K,SAD)
58 C SAD=20
59 A FRSN.K=TABHL(FRSHT,FIE,K,-.7,.2,.1)
60 T FRSHT=5/.6/.7/.85/1

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H FRSHN=.82
A FIE.K=(IOPC.K-ALOPC.K)/ALOPC.K
A ALOPC.K=SMOOTH(IOPC.K,IAT)
C IAT=3
A NPC.K=(MTP.K/MTP.E)-1
A PCOR.E=CLIP(1.0,(TABHL(PCPT,PCPC.E,0,3,.5)),TIME.K,PCEST)
45 C PCEST=4000
46 T PCPT=.75/.85/.9/.95/.98/.99/1
47 A PCPC.E=DILIMP3(PCAPC.E,HSID)
48 A PCAPC.E=FSAPC.K*ISOPC.E
49 A FSAPC.K=TABHL(FSAPCT,IPC.K,0,10,2)
50 T FSAPCT=0/.005/.015/.025/.03/.035
NOTE
NOTE CAPITAL SECTOR
NOTE
NOTE INDUSTRIAL SUBSECTOR
NOTE
49 A IOPC.E=IO.E/POP.E
50 A IO.E=(IC.K) (1-FCORR.K) (CUP.K)/ICOR.E
51 A ICOR.E=CLIP(ICOR2,ICOR1,TIME.K,PYEAR)
52 C ICOR1=3
53 C ICOR2=3
54 L IC.E=IC.3*(DT) (ICIR.JK-ICDR.JK)
55 H IC=ICI
56 C ICI=1.EI1
57 P ICDR.KL=IC.K/ALIC.K
58 A ALIC.E=CLIP(ALIC2,ALIC1,TIME.K,PYEAR)
59 C ALIC1=14
60 C ALIC2=14
55 R ICIR.KL=(IO.K) (FIOAI.K)
56 A FIOAI.K=(1-FIOAC.K-FIOAS.E-FIOAC.K)
57 A FIOAC.K=CLIP(FIOACT,K,FIOACC,K,TIME.K,IET)
58 C IET=4000
59 A FIOACC.K=CLIP(FIOAC2,FIOAC1,TIME.K,PYEAR)
60 C FIOAC1=.43
61 C FIOAC2=.43
59 A FIOACTV.K=TABHL(FIOACTV,IOPC.E/IOPCD,0,2,.2)
60 T FIOACTV=.3/.32/.34/.36/.38/.43/.73/.77/.81/.87/.83
61 C IOPCD=400
NOTE
NOTE SERVICE SUBSECTOR
NOTE
60 A ISOPC.K=CLIP(ISOPTC2.K,ISOPTC1.K,TIME.K,PYEAR)
61 A ISOPTC1.K=TABHL(ISOPTC1,IOPC.K,0,1600,200)
62 T ISOPTC2=400/300/640/1000/1220/1450/1650/1800/2000
63 A ISOPC2.K=TABHL(ISOPTC2T,IOPC.K,0,1600,200)
64 T ISOPC2T=400/300/640/1000/1220/1450/1650/1800/2000
65 A FIOAS.K=CLIP(FIOAS2.E,FIOAS1.E,TIME.E,PYEAR)
66 A FIOAS1.E=TABHL(FIOAS2T,SOPC.K/ISOPC.E,0,2,.5)
67 T FIOAS2T=.3/.2/1/.05/0
65 A FIOAS2.K=TABHL(FIOAS2T,SOPC.K/ISOPC.E,0,2,.5)
66 T FIOAS2T=.3/.2/1/.05/0
67 H SCIR.K=(10.K) (FIOAS.E)
68 L SCIR=SC.3*(DT) (SCIR.JK-SCDR.JK)
69 C SC=SC1
70 C SC1=1.44E11
68 R SCDR.KL=SC.K/ALSC.K
69 A ALSC.K=CLIP(ALSC2,ALSC1,TIME.K,PYEAR)
70 C ALSC1=20
71 C ALSC2=40
70 A SO.E=(SC.K*FUP.E)/(SCOR.K)
71 A SCOR.E=SC.E/POP.E
72 A SCOR.K=CLIP(SCOR2,SCOR1,TIME.K,PYEAR)
73 C SCOR1=1
74 C SCOR2=1
NOTE
NOTE JOB SUBSECTOR
NOTE
73 A J.K=JP23.E+JP24.E+JP35.E
74 A PJ35.E=(IC.K) (JPICU.K)
75 A JPICU.K=TABHL(JPICUT,IOPC.K,50,800,150) *IE-3
76 T JPICUT=.37/.18/.12/.09/.07/.06
77 A PJ35.E=(SC.K) (JPSCU.K)
78 A JPSCU.K=TABHL(JPSCUT,SOPC.E,50,800,150) *IE-3
79 T JPSCUT=1.7/.6/.35/.2/15/15
78 A PJ35.E=(JPM.K) (AL.K)
79 A JPM.K=TABHL(JPMT,ALPHI.E,2,30,6)
80 T JPMT=2/.5/.4/.4/.37/.24/.2/2
81 L P.K=(P2.K+P3.K)*LPPP
82 C LPPP=.75

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