

Figure 2-111 Run 2-26: increased compensation for perceived life expectancy

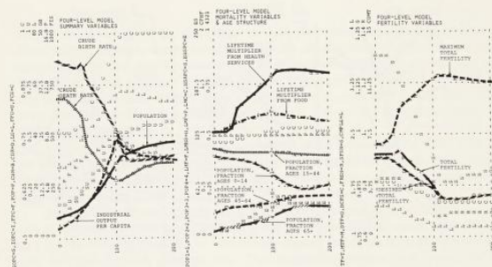


Figure 2-112 Run 2-27: decreased lifetime perception delay

Finally, Run 2-28 (Figure 2-113) shows the result of decreasing the assumed value of fertility control effectiveness FCE at any given value of family planning facilities per capita. The table used in Run 2-28 allows FCE to vary from 0.5 to 0.98 rather than from 0.7 to 1.0. This change causes a large gap between desired and actual total fertility, a higher birth rate, and a higher population. The general behavior mode is not altered.

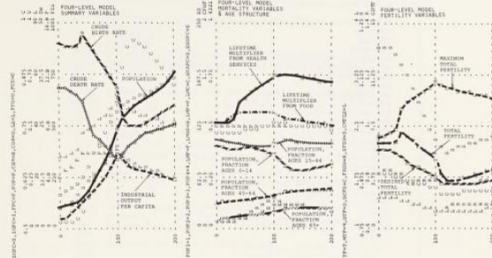


Figure 2-113 Run 2-28: decreased fertility control effectiveness

APPENDIX A: ONE-LEVEL POPULATION MODEL

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POP1
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NOTE
NOTE ONE-LEVEL POPULATION SECTOR WITH EXOGENOUS INPUTS
NOTE
NOTE POPULATION LEVEL EQUATIONS
L POP.K=POP.J*(DT) (B,JK-D,JK)
N POP=POP1
C POP1=1.61E9
NOTE
NOTE DEATH RATE EQUATIONS
NOTE
D.KL=POP.K/L.E.K
R CDR.K=1000*D.JK/POP.K
A LE.K=LE.K*LMF.K*LMIS.K*LMF.K*LMC.K
C LEH=28
A LMF.K=TABILL(LMFT,FPC.R/SFPC,0,5,1)
T LMFT=0/1/1.2/1.3/1.35/1.4
C SFPC=230
A HSAPC.K=TABILL(HSAPCT,SOPC.K,0,2000,250)
T HSAPCT=0/20/50/95/140/175/200/220/230
C HSAPC.K=SMOOTH(HSAPC.K,HSID)
A HSID=20
C LMIS.K=CLIP(LMIS2.K,LMIS1.K,TIMU.K,1PHST)
C IMIS2=40
A LMIS1.K=TABILL(LMIS1T,HSAPC.K,0,100,20)
T LMIS1T=1/1.1/1.4/1.6/1.7/1.8
A LMIS2T=1/1.4/1.6/1.8/1.95/2.0
T FPO.K=TABILL(FPUT,POP.K,0,100,20)
A FPUT=0/2/4/6/8/10/12/14/16/18/20
C CH1.K=TABILL(CHIT,IOPC.K,0,1000,200)
T CHIT=2/05/1/08/02/05/1/15/2
A LMC.K=1-(CH1.K/FPO.K)
T LMC.K=TABILL(LMCT,FPOLC.K,0,100,10)
T LMCT=1/0/99/97/95/90/85/75/65/55/40/20
NOTE

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