

Ligninger for erhvervenes efterspørgsel efter maskinkapital og arbejdskraft, millennium reestimation

Resumé:

Papiret præsenterer en reestimation af erhvervenes efterspørgsel efter maskinkapital og arbejdskraft.

mow13300.wp

Nøgleord: Faktorefterspørgsel, maskinkapital, arbejdskraft, reestimation

Modelgruppepapirer er interne arbejdsrapporter. De konklusioner, der drages i papirerne, er ikke endelige og kan være ændret inden opstillingen af nye modelversioner. Det henstilles derfor, at der kun citeres fra modelgruppepapirerne efter aftale med Danmarks Statistik.

1. Indledning

Baggrunden for reestimationen er Nationalregnskabets nye tal i 1995-priser. I forbindelsen med de nye NR-tal er der ikke kommet tilsvarende nye kapital- og investeringstal. Således er datagrundlaget for faktorblokken ikke ændret på kapital- og investringssiden. Dette kunne tale for at undlade en reestimation, og blot anvende korrektionsfaktorer som det har været tilfældet i maj98 og jan00. Det er dog alternativt valgt at reestimere. Formålet med reestimationen er dels at slippe af med korrektionsfaktorerne i faktorblok-ligningerne og dels at inddrage den information der trods alt ligger i de ny NR-tal.

Det forsøges at reestimere ligningerne under de gældende reestriktioner. Ligeledes bibeholdes opdelingen på 2. og 3. generationserhverv og graden af polynomierne i effektivitetsindeksene forsøges bibeholdt. Estimationsperioden er begrænset til perioden 1958-1992 som følge af fraværet af nye investerings- og kaitaltal.

I det følgende afsnit præsenteres estimationsresultaterne. Bilag 1 indeholder detaljerede estimationsresultater og bilag 2 indeholder forslag til nye modelligninger.

2. Estimationsresultater

Det har for de fleste erhverv været muligt at reestimere under de eksisterende restriktioner og trendantagelser. For erhvervene *nb*, *nn* og *qq* har det været nødvendigt at ændre initialværdierne i estimationsprogrammet for at sikre konvergens. Endelig er trendpolynomiet for arbejdskraften i *nf*-erhvervet ændret fra grad 5 til grad 4 for at opnå troværdige resultater.

Det gælder for samtlige erhverv, at der ikke er væsentlige ændringer i parameterestimater eller ligningernes egenskaber i forhold til reestimationen august 1997. I tabel 2.1 nedenfor er hovedresultaterne fra reestimationen præsenteret . De tilsvarende resultater fra august 1997 er angivet i parentes.

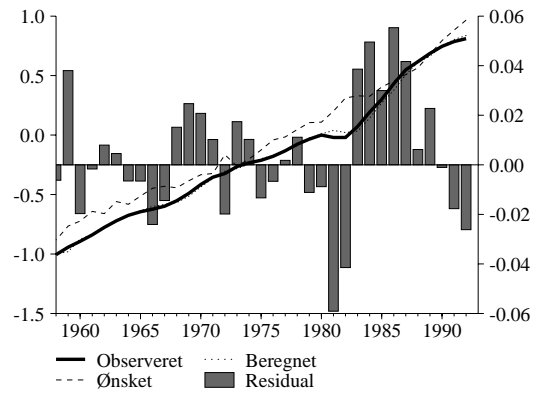
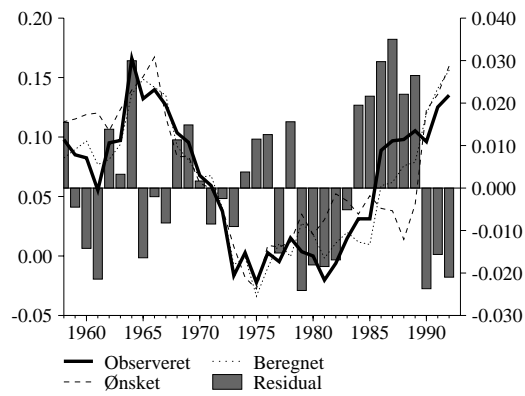
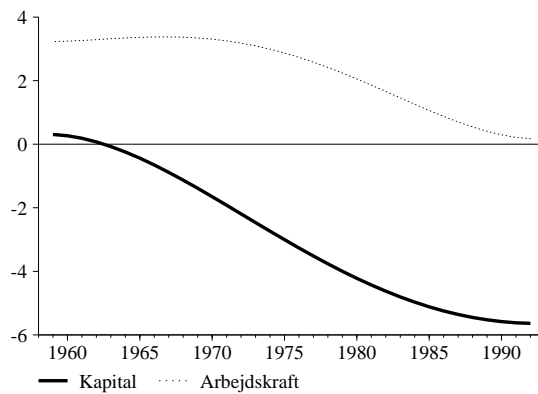
Tabel 2.1 **Oversigt over reestimation af
erhvervenes faktorefterspørgsel**

Erhverv	Egenprisel.		Subst. el.	ρ		Spredning		D.W.	
	K	L		K	L	K	L	K	L
qq^1	-0.32 (-0.31)	-0.08 (-0.09)	0.40* (0.40*)	0.67 (0.70)	0.78 (0.80)	2.51 (2.25)	1.74 (2.00)	1.09 (1.06)	1.22 (1.53)
qh^1	-0.18 (-0.18)	-0.02 (-0.02)	0.20* (0.20*)	0.57 (0.66)	0.28 (0.51)	1.76 (1.63)	2.18 (2.48)	1.72 (1.58)	1.75 (1.39)
nm^1	-0.34 (-0.38)	-0.08 (-0.09)	0.43 (0.47)	0.31 (0.38)	0.55 (0.38)	0.78 (0.84)	2.25 (2.12)	1.82 (1.82)	1.61 (1.61)
qt^1	-0.07 (-0.10)	-0.03 (-0.04)	0.10 (0.14)	0.95 (0.94)	0.64 (0.60)	1.58 (1.56)	3.08 (2.80)	2.35 (2.16)	1.23 (1.40)
b^1	-0.14 (-0.17)	-0.03 (-0.03)	0.17 (0.20)	0.68 (0.58)	0.74 (0.71)	2.75 (2.31)	4.81 (4.11)	1.29 (1.57)	1.09 (1.52)
a^1	-0.35 (-0.23)	-0.16 (-0.11)	0.51 (0.40)	0.37 (0.41)	0.60 (0.72)	1.89 (1.69)	3.13 (3.22)	1.33 (1.25)	1.55 (1.38)
nq^1	-0.27 (-0.23)	-0.05 (-0.05)	0.32 (0.28)	0.37 (0.45)	0.70 (0.71)	1.05 (1.04)	1.52 (1.88)	1.97 (2.00)	1.34 (1.38)
qf^2	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	13.1 (12.6)	10.3 (11.2)	0.30 (0.37)	0.43 (0.47)
nf^1	-0.50 (-0.42)	-0.14 (-0.13)	0.64 (0.54)	0.62 (0.58)	0.68 (0.58)	0.91 (0.96)	3.19 (3.39)	2.18 (2.01)	1.27 (1.15)
nb^1	-0.30 (-0.28)	-0.15 (-0.14)	0.44 (0.42)	0.39 (0.27)	0.77 (0.69)	2.36 (1.94)	4.13 (2.14)	1.40 (1.86)	1.07 (1.64)
nk^1	-0.44 (-0.34)	-0.16 (-0.13)	0.60 (0.47)	0.62 (0.66)	0.76 (0.80)	1.94 (1.93)	2.80 (2.74)	1.95 (2.06)	1.47 (1.30)
nt^1	-0.33 (-0.34)	-0.07 (-0.06)	0.40* (0.40*)	0.66 (0.66)	0.66 (0.80)	2.32 (2.28)	6.15 (6.59)	1.84 (1.82)	1.33 (1.06)
ne^2	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	12.2 (12.6)	7.70 (8.82)	0.31 (0.36)	0.84 (0.77)
qs^2	-0.10 (-0.09)	-0.30 (-0.31)	0.40* (0.40*)	0 (0)	0 (0)	11.6 (11.4)	16.5 (16.3)	0.79 (0.80)	0.43 (0.48)
nn^1	-0.20 (-0.21)	-0.08 (0.10)	0.28 (0.32)	0.31 (0.37)	0.76 (0.77)	1.95 (1.98)	3.52 (3.92)	1.67 (1.57)	1.11 (0.93)
ng^2	-0.05 (-0.03)	-0.05 (-0.07)	0.10* (0.10*)	- (-)	- (-)	10.6 (11.0)	12.34 (9.41)	0.94 (0.68)	1.12 (0.83)

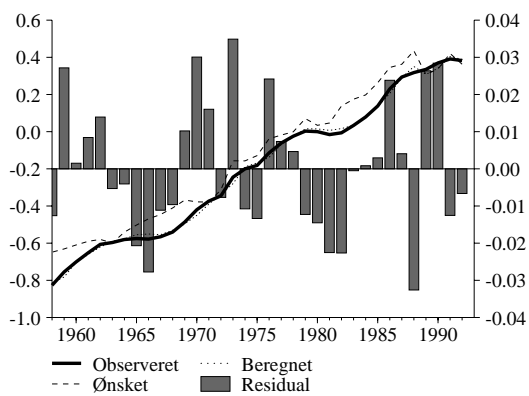
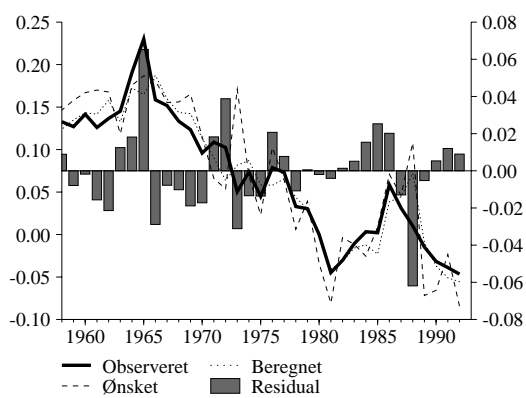
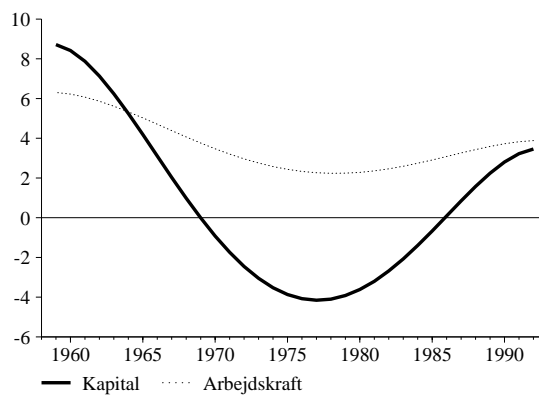
anm: Tal i parantes = ADAM, august 1997. Egenpriselasticiteterne er variende med data. Egenpriselasticiteterne i reestimationen gælder for året 1992.

- ¹ 3.generationsdynamik, ettrins-estimation
² 2. generationsdynamik, tottrins-estimation, restrikeret dynamik
* substitutionselasticiteten er restrikeret

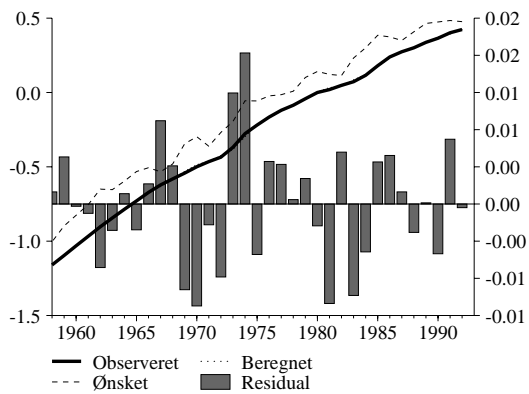
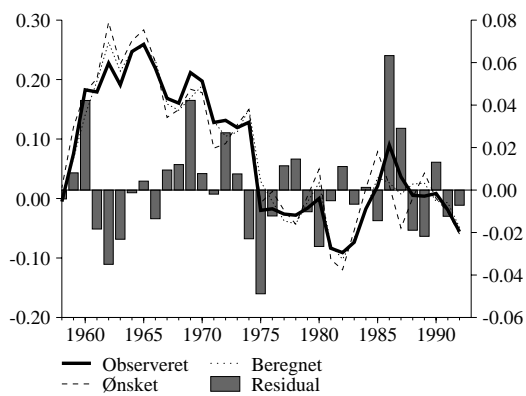
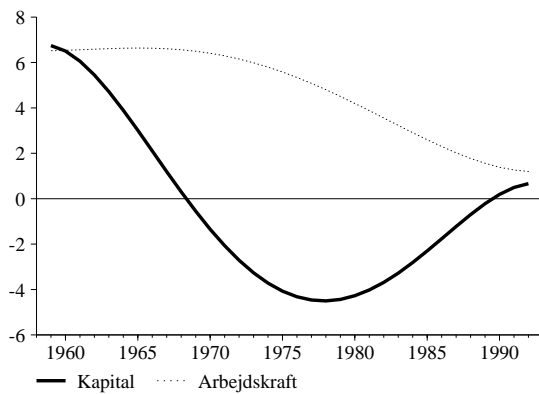
qq-erhvervet

Kapitalmængde*Arbejdskraft**Effektivitetsindeks*

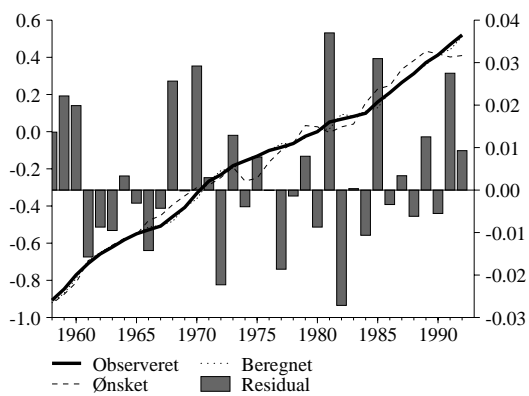
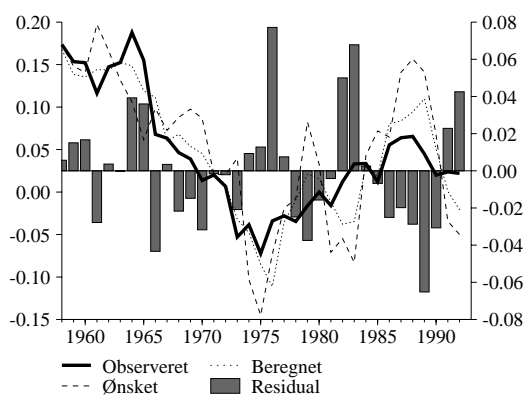
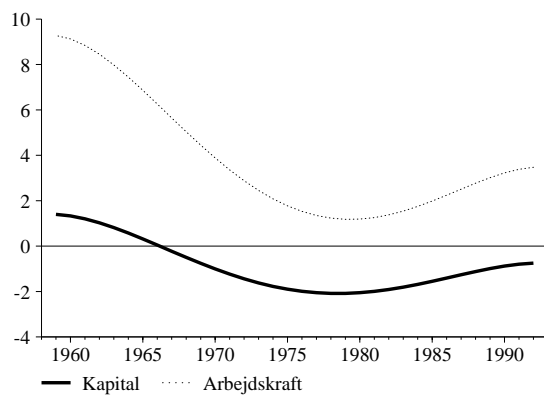
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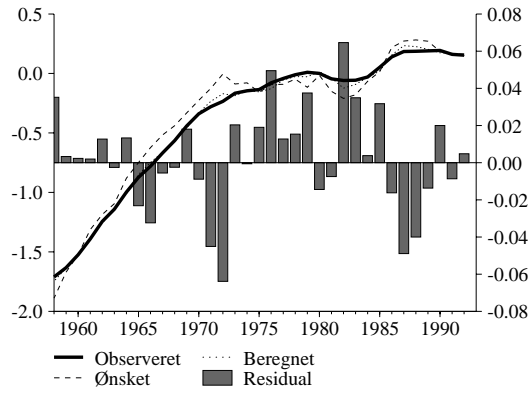
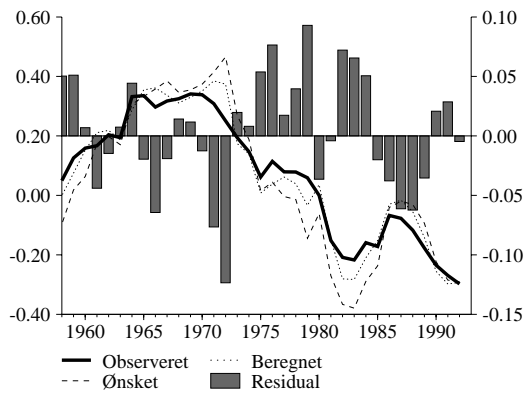
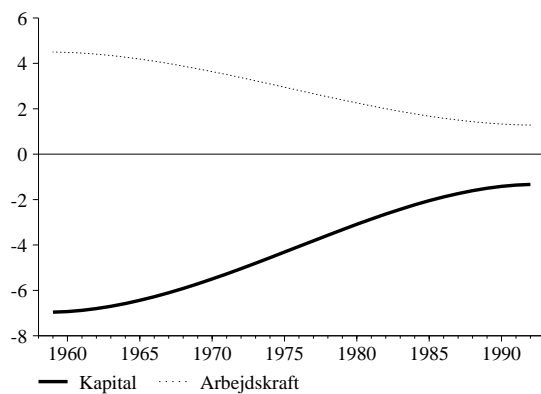
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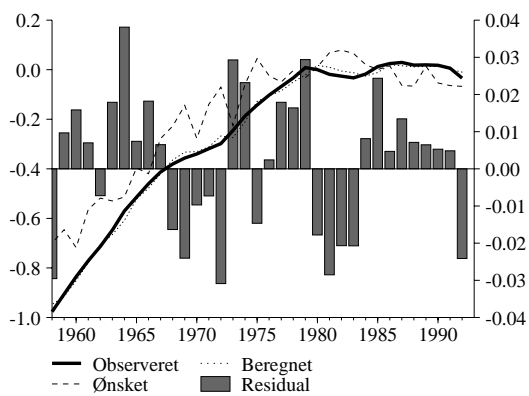
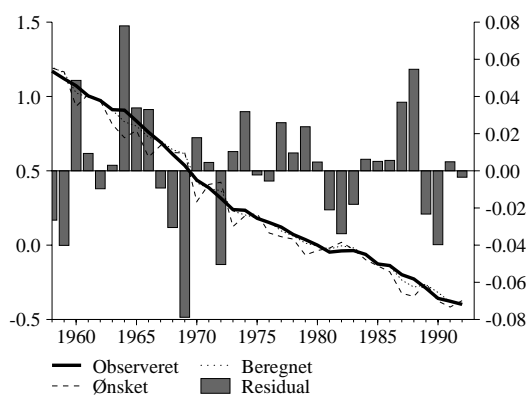
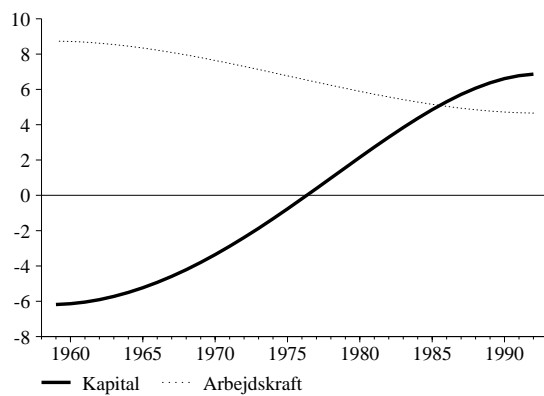
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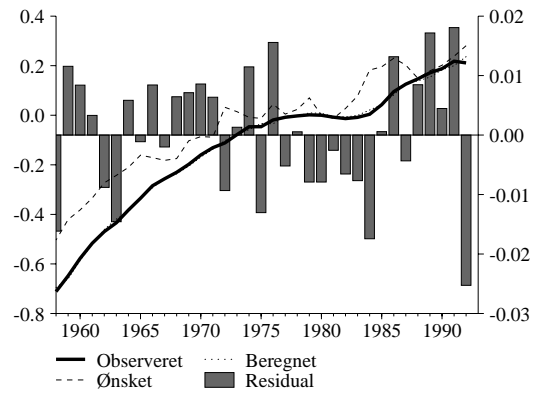
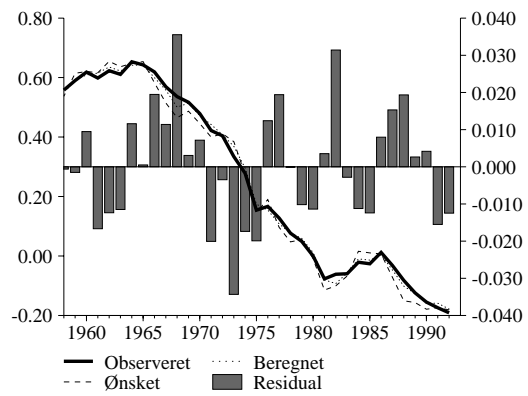
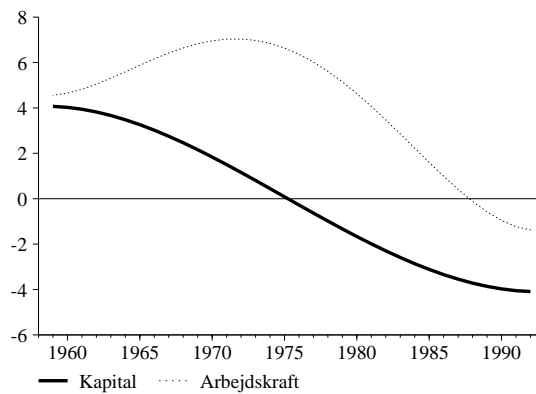
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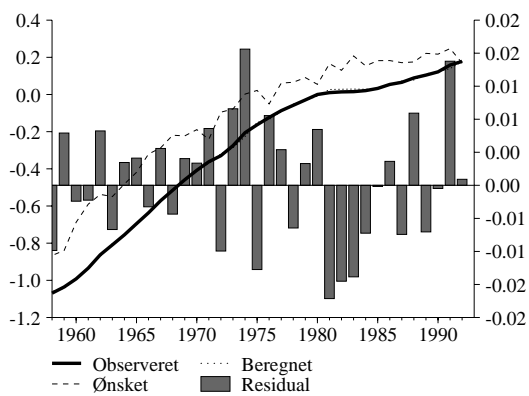
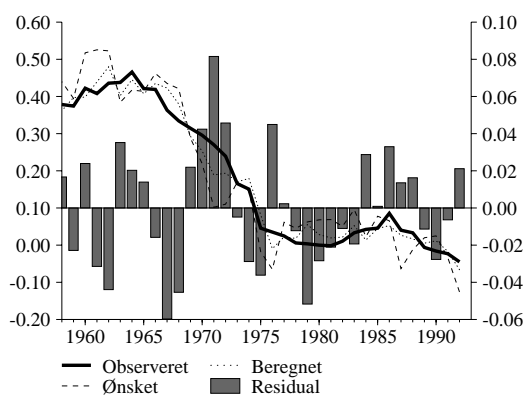
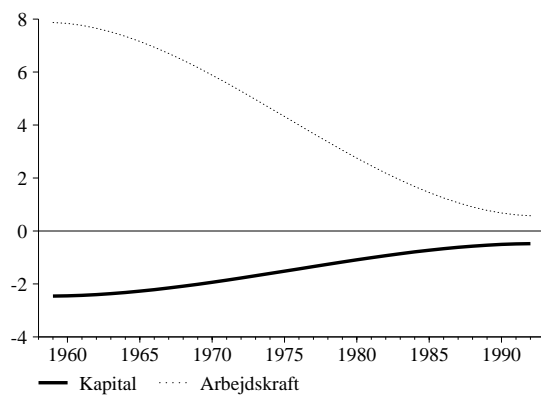
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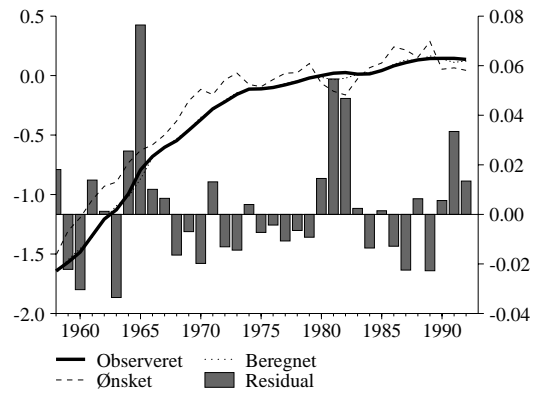
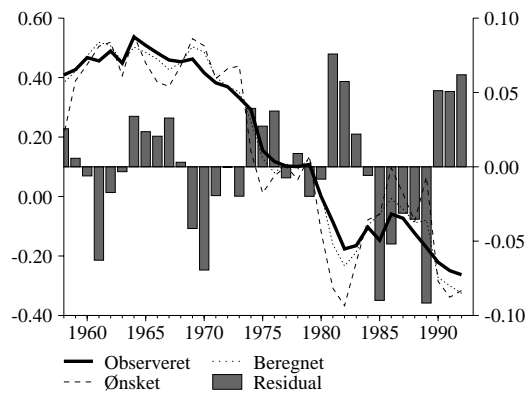
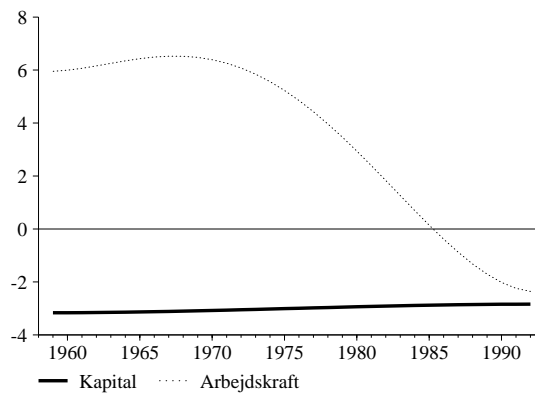
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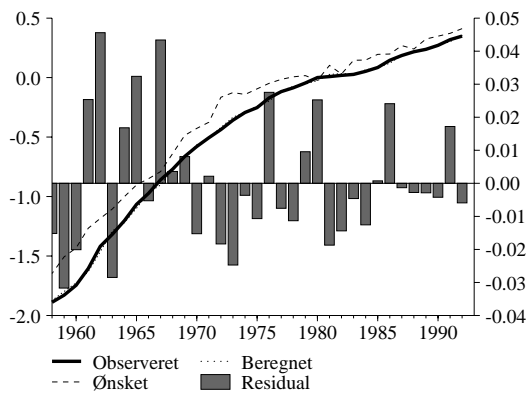
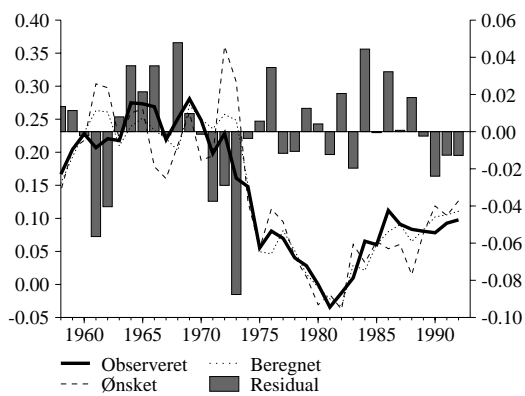
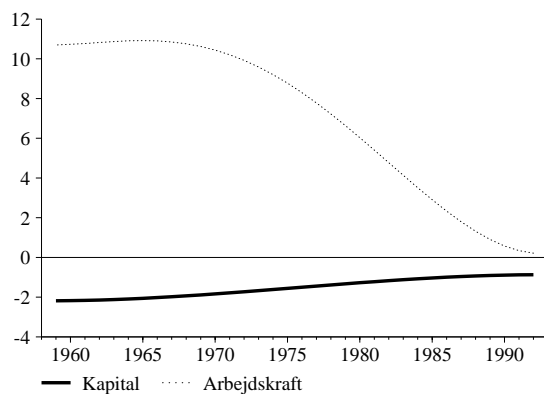
nf-erhvervet

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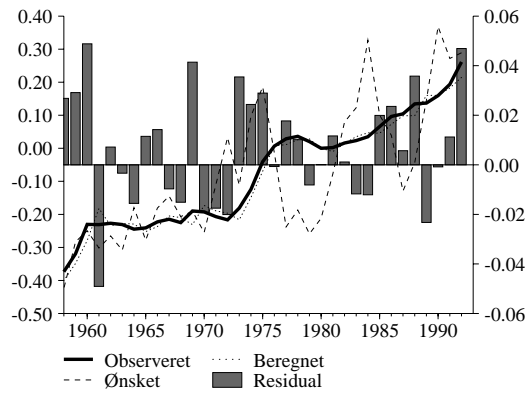
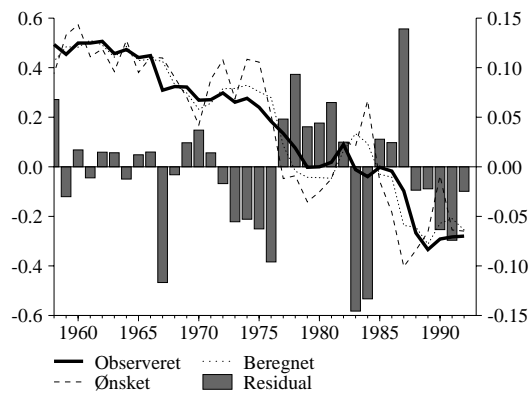
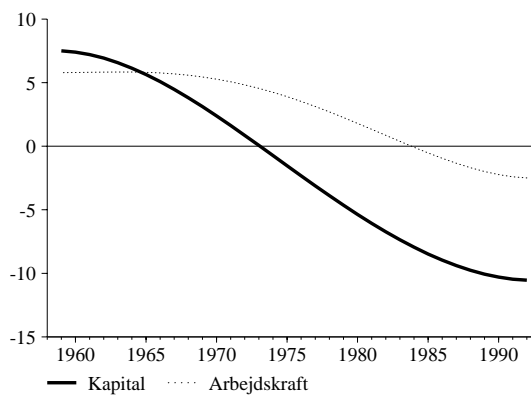
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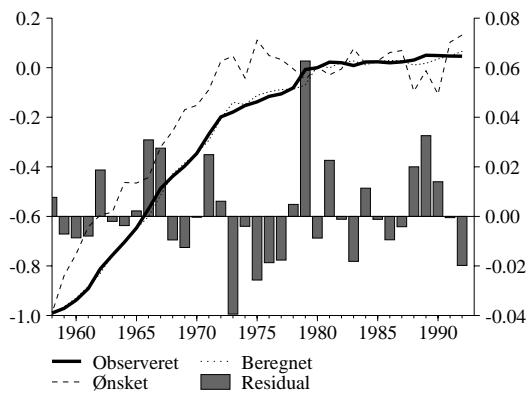
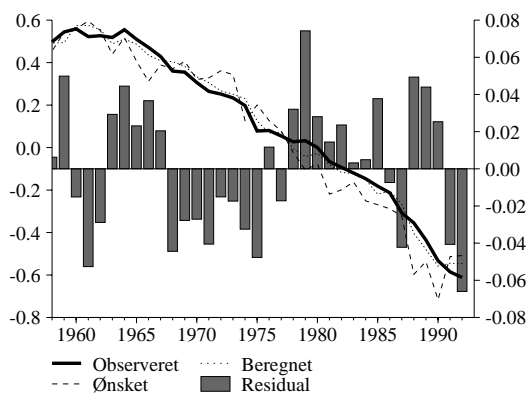
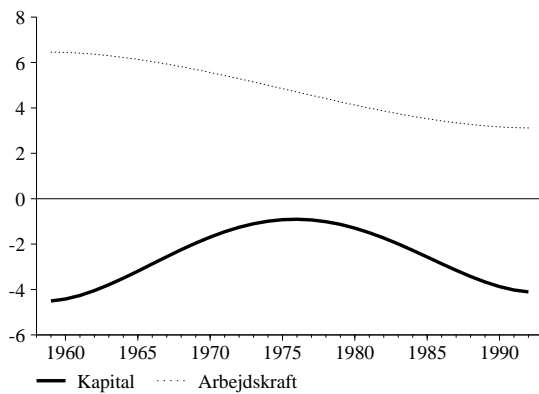
nk-erhvervet

Kapitalmængde*Arbejdskraft**Effektivitetsindeks*

nt-erhvervet

Kapitalmængde*Arbejdskraft**Effektivitetsindeks*

nn-erhvervet

Kapitalmængde*Arbejdskraft**Effektivitetsindeks*

Bilag 1 Estimationsresultater

qq-erhvervet

L-model		2						
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW	
-0.32	0.32	0.27	-5.64	0.124	0.326	2.51	1.09	
0.08	-0.08	3.24	0.17	0.354	-0.228	1.74	1.22	
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA		
0.400	0.665	0.780	178.78					
0.000	0.164	0.132	0.000	0.646	-0.418	0.00		
TILPASNING								
0.12	0.41	0.60						
0.35	0.77	1.00						

qh-erhvervet

L-model		2						
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW	
-0.18	0.18	8.42	3.46	0.305	0.366	1.76	1.72	
0.02	-0.02	6.22	3.88	0.427	-0.267	2.18	1.75	
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA		
0.200	0.577	0.275	175.95					
0.000	0.178	0.176	0.000	0.573	-0.307	0.00		
TILPASNING								
0.30	0.56	0.72						
0.43	0.73	1.00						

nm-erhvervet

L-model		2						
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW	
-0.34	0.34	6.50	0.66	0.162	0.261	0.78	1.84	
0.08	-0.08	6.54	1.20	0.670	-0.138	2.25	1.54	
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA		
0.427	0.306	0.554	203.44					
0.135	0.176	0.149	0.000	0.330	-0.192	0.00		
TILPASNING								
0.16	0.38	0.54						
0.67	0.86	1.00						

 qt-erhvervet

L-model		2						
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW	
-0.07	0.07	1.33	-0.75	0.137	0.189	1.58	2.35	
0.03	-0.03	9.13	3.47	0.341	-0.382	3.08	1.23	
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA		
0.101	0.949	0.640	167.73					
0.000	0.072	0.145	0.000	0.659	-0.277	0.00		
TILPASNING								
0.14	0.30	0.43						
0.34	0.62	1.00						

 b-erhvervet

L-model		2						
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW	
-0.14	0.14	-6.93	-1.33	0.372	0.633	2.75	1.29	
0.03	-0.03	4.48	1.28	0.667	-0.039	4.81	1.09	
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA		
0.170	0.684	0.736	156.48					
0.088	0.094	0.093	0.000	0.333	-0.294	0.00		
TILPASNING								
0.37	0.77	0.92						
0.67	0.96	1.00						

 a-erhvervet

L-model		2						
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW	
-0.35	0.35	-6.14	6.86	0.143	0.261	1.86	1.33	
0.16	-0.16	8.72	4.66	0.394	-0.219	3.13	1.55	
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA		
0.514	0.368	0.601	171.82					
0.311	0.156	0.131	0.000	0.606	-0.387	0.00		
TILPASNING								
0.14	0.37	0.53						
0.39	0.78	1.00						

nq-erhvervet

L-model		2							
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW		
-0.27	0.27	4.02	-4.09	0.116	0.251	1.05	1.97		
0.05	-0.05	4.65	-1.38	0.613	-0.146	1.52	1.34		
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA			
0.324	0.374	0.701	207.88						
0.146	0.187	0.128	0.000	0.387	-0.241	0.00			
TILPASNING									
0.12	0.34	0.50							
0.61	0.85	1.00							

nf-erhvervet

L-model		2							
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW		
-0.50	0.50	-2.45	-0.48	0.094	0.179	0.91	2.18		
0.14	-0.14	7.83	0.57	0.445	-0.325	3.19	1.27		
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA			
0.640	0.615	0.677	185.81						
0.260	0.155	0.129	0.000	0.555	-0.230	0.00			
TILPASNING									
0.09	0.26	0.39							
0.45	0.68	1.00							

nb-erhvervet

L-model		2							
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW		
-0.30	0.30	-3.16	-2.84	0.208	0.377	2.36	1.40		
0.15	-0.15	5.99	-2.36	0.471	-0.212	4.13	1.07		
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA			
0.444	0.386	0.774	148.56						
0.186	0.162	0.131	0.000	0.529	-0.318	0.00			

nk-erhvervet

L-model		2							
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW		
-0.44	0.44	-2.18	-0.87	0.154	0.395	1.94	1.95		
0.16	-0.16	10.73	0.22	0.456	-0.194	2.80	1.47		
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA			
0.597	0.620	0.759	163.97						
0.272	0.153	0.124	0.000	0.544	-0.350	0.00			
TILPASNING									
0.15	0.49	0.69							
0.46	0.81	1.00							

nt-erhvervet

L-model		2							
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW		
-0.33	0.33	7.40	-10.54	0.066	0.120	2.32	1.84		
0.07	-0.07	5.80	-2.50	0.275	-0.330	6.15	1.33		
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA			
0.400	0.657	0.664	130.18						
0.000	0.147	0.170	0.000	0.725	-0.395	0.00			
TILPASNING									
0.07	0.18	0.28							
0.28	0.67	1.00							

qs-erhvervet

L-model		2							
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW		
-0.10	0.10	-5.55	5.14	1.000	1.000	11.61	0.79		
0.30	-0.30	0.32	11.51	1.000	0.000	16.49	0.43		
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA			
0.400	0.000	0.000	50.46						
0.000	0.000	0.000	0.000	0.000	0.000	0.00			
TILPASNING									
1.00	1.00	1.00							
1.00	1.00	1.00							

 nn-erhvervet

L-model		2							
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW		
-0.20	0.20	-4.42	-4.10	0.128	0.233	1.95	1.67		
0.08	-0.08	6.44	3.11	0.299	-0.267	3.52	1.11		
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA			
0.280	0.309	0.757	160.90						
0.230	0.186	0.112	0.000	0.701	-0.434	0.00			
TILPASNING									
0.13	0.33	0.49							
0.30	0.73	1.00							

 ng-erhvervet

L-model		2							
PK	PL	R(e(60))	R(e(92))	1.aar	Tilp.	s	DW		
-0.05	0.05	-8.45	2.24	1.000	1.000	10.58	0.94		
0.05	-0.05	5.40	-2.86	1.000	0.000	12.34	1.12		
SIGMA	RHO_K	RHO_L	LOGL	gH1	gH2	GAMMA			
0.100	0.000	0.000	42.00						
0.000	0.000	0.000	0.000	0.000	0.000	0.00			
TILPASNING									
1.00	1.00	1.00							
1.00	1.00	1.00							

Bilag 2 Modelligninger

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() FAKTORBLOK (ARBEJDSKRAFT OG MASKINKAPITAL)
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() -----
() a-erhvervet
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()
FRML _DJ_D rpimae = 0.25*rpimae(-1) + 0.75*(pima/pima(-1)-1) $
FRML _DJ_D bfknma = fKnma /fKma $
FRML _DJRD uima = bfknma*pima*(1-tsdsu*bivpm)/(1-tsdsu
* ((1-tsdsu)*iwlo+bfinmva-0.50*rpimae) $
FRML _SJRDF fkmaw = (1/dtfkma)*0.37239**((0.51386/(1-0.51386))
* (((fYfa-10000*vhstk)/20654.84961)/1.86409)
* ( ( (la*319.72708)/(uima*93037.33594)
* (dtfkma/dthqa) )
** (1-0.51386)
* ((1-0.37239)/0.37239)**0.51386+1 )
** (0.51386/(1-0.51386))*93037.33594 $
FRML _SJRDF Dlog(fKma) = 0.14298*Dlog(fKmaw)
+ 0.26134*(log(fKmaw(-1))-log(fKma(-1)))
+ rofKma
*( Dlog(fKma(-1))
-0.14298*Dlog(fKmaw(-1))
-0.26134*(log(fKmaw(-2))-log(fKma(-2))) ) $
FRML _GJ_D fKmak = fKma $
FRML _DJRD fIma = dif(fKma) + bfinmva*fKma(-1) $
FRML _DJRD fKnma = fIma + (1-bfinmva)*fKnma(-1) $
FRML _SJRDF HQan = (1/dthqa)
*( (1/(1-0.37239))
* (((fYfa-10000*vhstk)/20654.84961)/1.86409)
** (-1/0.51386-1))
-(0.37239/(1-0.37239))
*(dtfkma*fKmak/93037.33594)**(-1/0.51386-1)) )
** (-1/(1/0.51386-1))*319.72708 $
FRML _SJRDF log(HQa) = 0.39432*(log(HQan)-log(Hgn))+log(Hgn)
+ (1-0.39432+(-0.21891))
*(log(HQan(-1))-log(Hgn(-1)))
- (-0.21891)*(log(HQan(-2))-log(Hgn(-2))) +
rohqa
*( log(HQa(-1))
-( 0.39432*(log(HQan(-1))-log(Hgn(-1)))
+(1-0.39432+(-0.21891))
*(log(HQan(-2))-log(Hgn(-2)))-(-0.21891)
*(log(HQan(-3))-log(Hgn(-3)))+log(Hgn(-1))) ) ) $
FRML _GJRD Qa = HQa/Hgn*1000 $
FRML _G Qsa = bqsa*Qa $
FRML _I Qwa = Qa-Qsa $
FRML _G Ywa = lnak1*Hgn*Qwa*0.001 $
FRML _DJR la = (Ywa+siqal)/(Qwa*Hgn)*1000 $
FRML _SJRDF HQaw = (1/dthqa)*(1-0.37239)**(0.51386/(1-0.51386))
* (((fYfa-10000*vhstk)/20654.84961)/1.86409)
* ( ( (uima*93037.33594)/(la*319.72708)
* (dthqa/dtfkma) )
** (1-0.51386)
* (0.37239/(1-0.37239)**0.51386+1 )
** (0.51386/(1-0.51386))*319.72708 $
() -----
() ng-erhvervet
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FRML _DJ_D rpimnge = 0.25*rpimnge(-1) + 0.75*(pimng/pimng(-1)-1) $
FRML _DJ_D bfknmg = fKnmg/fKmg $
FRML _DJRD uimng = bfknmg*pimng*(1-tsdsu*bivpm)/(1-tsdsu
* ((1-tsdsu)*iwlo+bfinmvg-0.50*rpimnge) $
FRML _SJRDF fkmngw = (1/dtfkmg)*0.078408**((0.10000/(1-0.10000))
* ((fXng/5989.83984)/0.96920)
* ( ( (lng*1.23090)/(uimng*2362.01611))
* (dtfkmg/dthqng) )
** (1-0.10000)
* ((1-0.078408)/0.078408)**0.10000+1 )
** (0.10000/(1-0.10000))*2362.01611 $
FRML _GJ_D fKmgk = fKmg $

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FRML _SJRDF Dlog(fKmng) = 0.20*Dlog(fKmngw) + 0.20*Dlog(fKmngw(-1))
              + 0.20*Dlog(fKmngw(-2)) + 0.20*Dlog(fKmngw(-3))
              + 0.20*Dlog(fKmngw(-4)) $
FRML _DJRD fImng = dif(fKmng) + bfimvng*fKmng(-1) $
FRML _DJRD fKnmng = fImng + (1-bfinmvng)*fKnmng(-1) $

FRML _SJRDF HQngw = (1/dthqng)*(1-0.078408)**(0.10000/(1-0.10000))
                  *((fXng/5989.83984)/0.96920)
                  *( ( (uimng*2362.01611)/(lng*1.23090))
                    *(dthqng/dtfkmng) )
                    *(1-0.10000)
                    *(0.078408/(1-0.078408))**0.10000+1 )
                    *(0.10000/(1-0.10000))*1.23090 $
FRML _SJRDF Dlog(HQng) = 0.65*(Dlog(HQngw)-Dlog(Hgn)) + Dlog(Hgn)
                  + 0.20*(Dlog(HQngw(-1))-Dlog(Hgn(-1)))
                  + 0.15*(Dlog(HQngw(-2))-Dlog(Hgn(-2))) $
FRML _GJRD Qng = HQng/Hgn*1000 $
FRML _G Qsng = bqsng*Qng $
FRML _I Qwng = Qng-Qsng $
FRML _G Ywng = lnakl*Hgn*Qwng*0.001*klng $
FRML _DJR lng = (Ywng+0.00*Siqam+0.00*Siqum+0.001*Siqab)
                /(Qwng*Hgn)*1000 $

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() ne-erhvervet
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FRML _DJ_D rpimnee = 0.25*rpimnee(-1) + 0.75*(pimne/pimne(-1)-1) $
FRML _DJ_D bfkmne = fKmnne/fKmne $
FRML _DJRD uimne = bfkmne*pimne*(1-tsdsu*bivpm)/(1-tsdsu)
                *((1-tsdsu)*iwlo+bfinmvne-0.50*rpimnee) $
FRML _SJRDF fkmnew = (fXne/17316.31641)/1.46750/dtfkmne*23545.26367 $
FRML _SJRDF Dlog(fKmne) = 0.20*Dlog(fKmnew) + 0.20*Dlog(fKmnew(-1))
                  + 0.20*Dlog(fKmnew(-2)) + 0.20*Dlog(fKmnew(-3))
                  + 0.20*Dlog(fKmnew(-4)) $
FRML _DJRD fImne = dif(fKmne) + bfimvne*fKmne(-1) $
FRML _DJRD fKmnne = fImne + (1-bfinmvne)*fKmnne(-1) $

FRML _SJRDF HQnew = (fXne/17316.31641)/1.29017/dthqne*18.95190 $
FRML _SJRDF Dlog(HQne) = 0.65*(Dlog(HQnew)-Dlog(Hgn)) + Dlog(Hgn)
                  + 0.20*(Dlog(HQnew(-1))-Dlog(Hgn(-1)))
                  + 0.15*(Dlog(HQnew(-2))-Dlog(Hgn(-2))) $
FRML _GJRD Qne = HQne/Hgn*1000 $
FRML _G Qsne = bqsne*Qne $
FRML _I Qwne = Qne-Qsne $
FRML _G Ywne = lnakl*Hgn*Qwne*0.001 $
FRML _DJR lne = (Ywne+0.00*Siqam+0.01*Siqum+0.008*Siqab)
                /(Qwne*Hgn)*1000 $

() -----
() nf-erhvervet
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()
FRML _DJ_D rpimnfe = 0.25*rpimnfe(-1) + 0.75*(pimnf/pimnf(-1)-1) $
FRML _DJ_D bfkmnf = fKmnf/fKmnf $
FRML _DJRD uimnf = bfkmnf*pimnf*(1-tsdsu*bivpm)/(1-tsdsu)
                *((1-tsdsu)*iwlo+bfinmvnf-0.50*rpimnfe) $
FRML _SJRDF fkmnf = (1/dtfkmnf)*0.25501**((0.63954/(1-0.63954))
                *((fYfnf/20050.52734)/1.04579)
                *( ( (lnf*132.58244)/(uimnf*35274.01953))
                  *(dtfkmnf/dthqnf) )
                  *(1-0.63954)
                  *((1-0.25501)/0.25501)**0.63954+1 )
                  *(0.63954/(1-0.63954))*35274.01953 $
FRML _SJRDF Dlog(fKmnf) = 0.094150*Dlog(fKmnf)
                  + 0.17940*(log(fKmnf(-1))-log(fKmnf(-1)))
                  + rofKmnf
                  *( Dlog(fKmnf(-1))
                    -0.094150*Dlog(fKmnf(-1))
                    -0.17940*(log(fKmnf(-2))-log(fKmnf(-2))) ) $
FRML _GJ_D fKmnfk = fKmnf $
FRML _DJRD fImnf = dif(fKmnf) + bfimvnf*fKmnf(-1) $
FRML _DJRD fKmnfn = fImnf + (1-bfinmvnf)*fKmnfn(-1) $

FRML _SJRDF HQnfn = (1/dthqnf)
                  *( (1/(1-0.25501))
                    *((fYfnf/20050.52734)/1.04579)
                    **(-(1/0.63954-1))

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      -(0.25501/(1-0.25501))
      *(dtfkmnf*fKmnfk/35274.01953)**(-(1/0.63954-1)) )
      **(-(1/(1/0.63954-1)))*132.58244 $
FRML _SJRDF log(HQnf) = 0.44515*(log(HQnfn)-log(Hgn))+log(Hgn)
      + (1-0.44515+(-0.32477))
      *(log(HQnfn(-1))-log(Hgn(-1)))
      - (-0.32477)*(log(HQnfn(-2))-log(Hgn(-2))) +
      rohgnf
      *( log(HQnf(-1))
      -( 0.44515*(log(HQnfn(-1))-log(Hgn(-1)))
      +(1-0.44515+(-0.32477))
      *(log(HQnfn(-2))-log(Hgn(-2)))-(-0.32477)
      *(log(HQnfn(-3))-log(Hgn(-3)))+log(Hgn(-1)) ) ) $
FRML _GJRD Qnf = HQnf/Hgn*1000 $
FRML _G Qsnf = bqsnf*Qnf $
FRML _I Qwnf = Qnf-Qsnf $
FRML _G Ywnf = lnakl*Hgn*Qwnf*0.001 $
FRML _DJR lnf = (Ywnf+sigal)/(Qwnf*Hgn)*1000 $

FRML _SJRDF HQnfw = (1/dthqnf)*(1-0.25501)**(0.63954/(1-0.63954))
      *( (fYfnf/20050.52734)/1.04579)
      *( ( (uimnf*35274.01953)/(lnf*132.58244) )
      *(dthqnf/dtfkmnf) )
      ** (1-0.63954)
      *(0.25501/(1-0.25501))**0.63954+1 )
      ** (0.63954/(1-0.63954))*132.58244 $

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() nn-erhvervet
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()
FRML _DJ_D rpimne = 0.25*rpimne(-1) + 0.75*(pimnn/pimnn(-1)-1) $
FRML _DJ_D bfkmnn /fkmnn $
FRML _DJRD uimnn = bfkmnn*pimnn*(1-tsdsu*bivpm)/(1-tsdsu)
      *( (1-tsdsu)*iwlo+bfinmvnn-0.50*rpimne) $
FRML _SJRDF fkmnnw = (1/dtfkmnn)*0.71584**((0.27990/(1-0.27990))
      *( (fYfnn/5885.21484)/1.09807)
      *( ( (lnn*24.31935)/(uimnn*7675.25293) )
      *(dtfkmnn/dthqnn) )
      ** (1-0.27990)
      *( (1-0.71584)/0.71584)**0.27990+1 )
      ** (0.27990/(1-0.27990))*7675.25293 $
FRML _SJRDF Dlog(fKmn) = 0.12828*Dlog(fKmnw)
      + 0.23319*(log(fKmnw(-1))-log(fKmn(-1)))
      + rofKmn
      *( Dlog(fKmn(-1))
      -0.12828*Dlog(fKmnw(-1))
      -0.23319*(log(fKmnw(-2))-log(fKmn(-2))) ) $
FRML _GJ_D fKmnk = fKmn $
FRML _DJRD fImnn = dif(fKmn) + bfinmvnn*fKmn(-1) $
FRML _DJRD fKmn = fImnn + (1-bfinmvnn)*fKmn(-1) $

FRML _SJRDF HQnnn = (1/dthqnn)
      *( (1/(1-0.71584))
      *( (fYfnn/5885.21484)/1.09807)
      **(-(1/0.27990-1))
      -(0.71584/(1-0.71584))
      *(dtfkmnn*fKmnk/7675.25293)**(-(1/0.27990-1)) )
      **(-(1/(1/0.27990-1)))*24.31935 $
FRML _SJRDF log(HQnn) = 0.29903*(log(HQnnn)-log(Hgn))+log(Hgn)
      + (1-0.29903+(-0.26671))
      *(log(HQnnn(-1))-log(Hgn(-1)))
      - (-0.26671)*(log(HQnnn(-2))-log(Hgn(-2))) +
      rohqnn
      *( log(HQnn(-1))
      -( 0.29903*(log(HQnnn(-1))-log(Hgn(-1)))
      +(1-0.29903+(-0.26671))
      *(log(HQnnn(-2))-log(Hgn(-2)))-(-0.26671)
      *(log(HQnnn(-3))-log(Hgn(-3)))+log(Hgn(-1)) ) ) ) $
FRML _GJRD Qnn = HQnn/Hgn*1000 $
FRML _G Qsnn = bqsnn*Qnn $
FRML _I Qwnn = Qnn-Qsnn $
FRML _G Ywnn = lnakl*Hgn*Qwnn*0.001 $
FRML _DJR lnn = (Ywnn+sigal)/(Qwnn*Hgn)*1000 $

FRML _SJRDF HQnnw = (1/dthqnn)*(1-0.71584)**(0.27990/(1-0.27990))

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*( (fYfnn/5885.21484)/1.09807)
*( ( (uimnn*7675.25293)/(lnn*24.31935))
  *(dthqnn/dtfkmmn) )
  *(1-0.27990)
  *(0.71584/(1-0.71584))*0.27990+1 )
  *(0.27990/(1-0.27990))*24.31935 $

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() nb-erhvervet
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()
FRML _DJ_D   rpimnbe   = 0.25*rpimnbe(-1) + 0.75*(pimnb/pimnb(-1)-1) $
FRML _DJ_D   bfknmmnb = fKmmnb /fKmmnb $
FRML _DJRD   uimnb     = bfknmmnb*pimnb*(1-tsdsu*bivpm)/(1-tsdsu
  *((1-tsdsu)*iwlo+bfinmvnb-0.50*rpimnbe) $
FRML _SJR    fkmnbw    = (1/dtfkmmn)*0.42867**0.44408/(1-0.44408)
  *( (fYfnn/11246.19141)/0.92005)
  *( ( (lnb*59.31255)/(uimnb*24979.33203))
    *(dtkmmn/dthqnb) )
    *(1-0.44408)
    *((1-0.42867)/0.42867)**0.44408+1 )
    *(0.44408/(1-0.44408))*24979.33203 $
FRML _SJRDF  Dlog(fKmmnb) = 0.20793*Dlog(fKmmnbw)
  + 0.37698*(log(fKmmnbw(-1))-log(fKmmnb(-1)))
  + rofKmmnb
  *( Dlog(fKmmnb(-1))
    -0.20793*Dlog(fKmmnbw(-1))
    -0.37698*(log(fKmmnbw(-2))-log(fKmmnb(-2))) ) ) $
FRML _GJ_D   fKmmnbk   = fKmmnb $
FRML _DJRD   fImnb     = dif(fKmmnb) + bfinmvnb*fKmmnb(-1) $
FRML _DJRD   fKmmnb    = fImnb + (1-bfinmvnb)*fKmmnb(-1) $

FRML _SJR    HQnbn     = (1/dthqnb)
  *( (1/(1-0.42867))
    *( (fYfnn/11246.19141)/0.92005)
    *((-1/0.44408-1))
    -(0.42867/(1-0.42867))
    *(dtkmmn*fKmmnbk/24979.33203)**(-1/0.44408-1) ) )
    *((-1/(1/0.44408-1))*59.31255 $
FRML _SJRDF  log(HQnbn) = 0.47077*(log(HQnbn)-log(Hgn))+log(Hgn)
  + (1-0.47077+(-0.21169))
  *(log(HQnbn(-1))-log(Hgn(-1)))
  - (-0.21169)*(log(HQnbn(-2))-log(Hgn(-2))) +
  rohqnb
  *( log(HQnbn(-1))
    -( 0.47077*(log(HQnbn(-1))-log(Hgn(-1)))
      +(1-0.47077+(-0.21169))
      *(log(HQnbn(-2))-log(Hgn(-2)))-(-0.21169)
      *(log(HQnbn(-3))-log(Hgn(-3)))+log(Hgn(-1)) ) ) ) $
FRML _GJRD   Qnb       = HQnbn/Hgn*1000 $
FRML _G       Qsnb     = bgsnb*Qnb $
FRML _I       Qwnb     = Qnb-Qsnb $
FRML _G       Ywnb     = lnak1*Hgn*Qwnb*0.001 $
FRML _DJR    lnb       = (Ywnb+siqal)/(Qwnb*Hgn)*1000 $

FRML _SJR    HQnbw     = (1/dthqnb)*(1-0.42867)**0.44408/(1-0.44408)
  *( (fYfnn/11246.19141)/0.92005)
  *( ( (uimnb*24979.33203)/(lnb*59.31255))
    *(dthqnb/dtfkmmn) )
    *(1-0.44408)
    *(0.42867/(1-0.42867))*0.44408+1 )
    *(0.44408/(1-0.44408))*59.31255 $

() -----
() nm-erhvervet
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FRML _DJ_D   rpimnme   = 0.25*rpimnme(-1) + 0.75*(pimnm/pimnm(-1)-1) $
FRML _DJ_D   bfknmmn  = fKmmnm /fKmmnm $
FRML _DJRD   uimnm     = bfknmmn*pimnm*(1-tsdsu*bivpm)/(1-tsdsu
  *((1-tsdsu)*iwlo+bfinmvnm-0.50*rpimnme) $
FRML _SJR    fkmnmw    = (1/dtfkmmn)*0.33790**0.42728/(1-0.42728)
  *( (fYfnn/39700.45703)/1.11402)
  *( ( (lnm*266.76538)/(uimnm*43780.55859))
    *(dtkmmn/dthqnm) )
    *(1-0.42728)
    *((1-0.33790)/0.33790)**0.42728+1 )

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FRML _SJRDF Dlog(fKmmn) = ((0.42728/(1-0.42728))*43780.55859 $
+ 0.16177*Dlog(fKmmnw)
+ 0.26071*(log(fKmmnw(-1))-log(fKmmn(-1)))
+ rofKmmn
*( Dlog(fKmmn(-1))
-0.16177*Dlog(fKmmnw(-1))
-0.26071*(log(fKmmnw(-2))-log(fKmmn(-2))) ) $
FRML _GJ_D fKmmnk = fKmmn $
FRML _DJRD fImnm = dif(fKmmn) + bfinvnm*fKmmn(-1) $
FRML _DJRD fKmmnm = fImnm + (1-bfinvnm)*fKmmn(-1) $
FRML _SJRDF HQnmn = (1/dthqnm)
*( (1/(1-0.33790))
*((fYfnm/39700.45703)/1.11402)
**(-(1/0.42728-1))
-(0.33790/(1-0.33790))
*(dtfkmnm*fKmmnk/43780.55859)**(-(1/0.42728-1)) )
FRML _SJRDF log(HQnm) = 0.67049*(log(HQnmn)-log(Hgn))+log(Hgn)
+ (1-0.67049+(-0.13799))
*(log(HQnmn(-1))-log(Hgn(-1)))
- (-0.13799)*(log(HQnmn(-2))-log(Hgn(-2))) +
rohqnm
*( log(HQnm(-1))
-( 0.67049*(log(HQnmn(-1))-log(Hgn(-1)))
+(1-0.67049+(-0.13799))
*(log(HQnmn(-2))-log(Hgn(-2)))-(-0.13799)
*(log(HQnmn(-3))-log(Hgn(-3)))+log(Hgn(-1)) ) ) $
FRML _GJRD Qnm = HQnm/Hgn*1000 $
FRML _G Qsnm = bqsnm*Qnm $
FRML _I Qwnm = Qnm-Qsnm $
FRML _G Ywnm = lnak1*Hgn*Qwnm*0.001 $
FRML _DJR lnm = (Ywnm+sigal)/(Qwnm*Hgn)*1000 $
FRML _SJRDF HQnmw = (1/dthqnm)*(1-0.33790)**(0.42728/(1-0.42728))
*( (fYfnm/39700.45703)/1.11402)
*( ( (uimnm*43780.55859)/(lnm*266.76538))
*(dthqnm/dtfkmnm) )
**((1-0.42728)
*(0.33790/(1-0.33790))**0.42728+1 )
**((0.42728/(1-0.42728))*266.76538 $
() -----
() nt-erhvervet
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()
()
FRML _DJ_D rpimnte = 0.25*rpimnte(-1) + 0.75*(pimnt/pimnt(-1)-1) $
FRML _DJ_D bfkmnt = fKmnt /fKmnt $
FRML _DJRD uimnt = bfkmnt*pimnt*(1-tsdsu*bivpm)/(1-tsdsu)
*((1-tsdsu)*iwlo+bfinmvnt-0.50*rpimnte) $
FRML _SJRDF fkmntw = (1/dtfkmnt)*0.31507**((0.40000/(1-0.40000))
*(fYfnt/5491.12305)/0.81262)
*( ( (lnt*43.00395)/(uimnt*5734.10938))
*(dtfkmnt/dthqnt) )
**((1-0.40000)
*( (1-0.31507)/0.31507)**0.40000+1 )
**((0.40000/(1-0.40000))*5734.10938 $
FRML _SJRDF Dlog(fKmnt) = 0.066320*Dlog(fKmntw)
+ 0.12018*(log(fKmntw(-1))-log(fKmnt(-1)))
+ rofKmnt
*( Dlog(fKmnt(-1))
-0.066320*Dlog(fKmntw(-1))
-0.12018*(log(fKmntw(-2))-log(fKmnt(-2))) ) $
FRML _GJ_D fKmntk = fKmnt $
FRML _DJRD fImnt = dif(fKmnt) + bfinvnt*fKmnt(-1) $
FRML _DJRD fKmntnt = fImnt + (1-bfinvnt)*fKmnt(-1) $
FRML _SJRDF HQntn = (1/dthqnt)
*( (1/(1-0.31507))
*((fYfnt/5491.12305)/0.81262)
**(-(1/0.40000-1))
-(0.31507/(1-0.31507))
*(dtfkmnt*fKmntk/5734.10938)**(-(1/0.40000-1)) )
**(-(1/(1/0.40000-1))*43.00395 $
FRML _SJRDF log(HQnt) = 0.27541*(log(HQntn)-log(Hgn))+log(Hgn)
+ (1-0.27541+(-0.32995))
*(log(HQntn(-1))-log(Hgn(-1)))

```



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**((0.59723/(1-0.59723))*76.11945 $
() -----
() nq-erhvervet
() -----
()
()
FRML _DJ_D rpimnqe = 0.25*rpimnqe(-1) + 0.75*(pimnq/pimnq(-1)-1) $
FRML _DJ_D bfknmnq = fKmnq /fKmnq $
FRML _DJRD uimnq = bfknmnq*pimnq*(1-tsdsu*bivpm)/(1-tsdsu
* ((1-tsdsu)*iwlo+bfinmvnq-0.50*rpimnqe) $
FRML _SJRDF fkmnqw = (1/dtfkmnq)*0.35579**((0.32396/(1-0.32396))
*( (fYfnq/34046.76172)/0.99077)
*( ( (lnq*213.36974)/(uimnq*32390.25781))
*(dtfkmnq/dthqnq) )
**((1-0.32396)
*((1-0.35579)/0.35579)**0.32396+1 )
**((0.32396/(1-0.32396))*32390.25781 $
FRML _SJRDF Dlog(fKmnq) = 0.11621*Dlog(fKmnqw)
+ 0.25072*(log(fKmnqw(-1))-log(fKmnq(-1)))
+ rofKmnq
*( Dlog(fKmnq(-1))
-0.11621*Dlog(fKmnqw(-1))
-0.25072*(log(fKmnqw(-2))-log(fKmnq(-2))) ) $
FRML _GJ_D fKmnqk = fKmnq $
FRML _DJRD fImnq = dif(fKmnq) + bfinmvnq*fKmnq(-1) $
FRML _DJRD fKmnq = fImnq + (1-bfinmvnq)*fKmnq(-1) $
FRML _SJRDF HQnqn = (1/dthqnq)
*( (1/(1-0.35579))
*((fYfnq/34046.76172)/0.99077)
**(-(1/0.32396-1))
-(0.35579/(1-0.35579))
*(dtfkmnq*fKmnqk/32390.25781)**(-(1/0.32396-1)) )
FRML _SJRDF log(HQnq) = 0.61318*(log(HQnqn)-log(Hgn))+log(Hgn)
+ (1-0.61318+(-0.14581))
*(log(HQnqn(-1))-log(Hgn(-1)))
- (-0.14581)*(log(HQnqn(-2))-log(Hgn(-2))) +
rohqnq
*( log(HQnq(-1))
-( 0.61318*(log(HQnqn(-1))-log(Hgn(-1)))
+(1-0.61318+(-0.14581))
*(log(HQnqn(-2))-log(Hgn(-2)))-(-0.14581)
*(log(HQnqn(-3))-log(Hgn(-3)))+log(Hgn(-1)) ) ) $
FRML _GJRD Qnq = HQnq/Hgn*1000 $
FRML _G Qsnq = bqsng*Qnq $
FRML _I Qwnq = Qnq-Qsnq $
FRML _G Ywnq = lnakl*Hgn*Qwnq*0.001 $
FRML _DJR lnq = (Ywnq+siqal)/(Qwnq*Hgn)*1000 $
FRML _SJRDF HQnqw = (1/dthqnq)*(1-0.35579)**((0.32396/(1-0.32396))
*((fYfnq/34046.76172)/0.99077)
*( ( (uimnq*32390.25781)/(lnq*213.36974))
*(dthqnq/dtfkmnq) )
**((1-0.32396)
*(0.35579/(1-0.35579))**0.32396+1 )
**((0.32396/(1-0.32396))*213.36974 $
() -----
() b-erhvervet
() -----
()
()
FRML _DJ_D rpimbe = 0.25*rpimbe(-1) + 0.75*(pimb/pimb(-1)-1) $
FRML _DJ_D bfknmb = fKmb /fKmb $
FRML _DJRD uimb = bfknmb*pimb*(1-tsdsu*bivpm)/(1-tsdsu
* ((1-tsdsu)*iwlo+bfinmvb-0.50*rpimbe) $
FRML _SJRDF fkmbw = (1/dtfkmb)*0.64069**((0.16989/(1-0.16989))
*( (fYfb/42855.93359)/1.07672)
*( ( (lb*302.47302)/(uimb*41362.68750))
*(dtfkmb/dthqb) )
**((1-0.16989)
*((1-0.64069)/0.64069)**0.16989+1 )
**((0.16989/(1-0.16989))*41362.68750 $
FRML _SJRDF Dlog(fKmb) = 0.37206*Dlog(fKmbw)
+ 0.63303*(log(fKmbw(-1))-log(fKmb(-1)))
+ rofKmb
*( Dlog(fKmb(-1))

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-0.37206*Dlog(fKmbw(-1))
-0.63303*(log(fKmbw(-2))-log(fKmb(-2))) ) $
FRML _GJ_D fKmbk = fKmb $
FRML _DJRD fImb = dif(fKmb) + bfimvb*fKmb(-1) $
FRML _DJRD fKnmb = fImb + (1-bfinmvb)*fKnmb(-1) $

FRML _SJRDF HQbn = (1/dthqb)
* ( (1/(1-0.64069))
* ((fYfb/42855.93359)/1.07672)
**(-(1/0.16989-1))
-(0.64069/(1-0.64069))
*(dtfkmb*fKmbk/41362.68750)**(-(1/0.16989-1)) )
**(-(1/(1/0.16989-1)))*302.47302 $
FRML _SJRDF log(HQb) = 0.66655*(log(HQbn)-log(Hgn))+log(Hgn)
+ (1-0.66655+(-0.039320))
*(log(HQbn(-1))-log(Hgn(-1)))
- (-0.039320)*(log(HQbn(-2))-log(Hgn(-2))) +
rohqb
*( log(HQb(-1))
-( 0.66655*(log(HQbn(-1))-log(Hgn(-1)))
+(1-0.66655+(-0.039320))
*(log(HQbn(-2))-log(Hgn(-2)))-(-0.039320)
*(log(HQbn(-3))-log(Hgn(-3)))+log(Hgn(-1)) ) ) $

FRML _GJRD Qb = HQb/Hgn*1000 $
FRML _G Qsb = bqsb*Qb $
FRML _I Qwb = Qb-Qsb $
FRML _G Ywb = lnak1*Hgn*Qwb*0.001 $
FRML _DJR lb = (Ywb+siqal)/(Qwb*Hgn)*1000 $

FRML _SJRDF HQbw = (1/dthqb)*(1-0.64069)**(0.16989/(1-0.16989))
* ((fYfb/42855.93359)/1.07672)
* ( ( (uimb*41362.68750)/(lb*302.47302))
*(dthqb/dtfkmb) )
** (1-0.16989)
*(0.64069/(1-0.64069))**0.16989+1 )
** (0.16989/(1-0.16989))*302.47302 $

() -----
() qh-erhvervet
() -----
()
()

FRML _DJ_D rpimqhe = 0.25*rpimqhe(-1) + 0.75*(pimqh/pimqh(-1)-1) $
FRML _DJ_D bfknmqh = fKnmqh /fKmqh $
FRML _DJRD uimqh = bfknmqh*pimqh*(1-tsdsu*bivpm)/(1-tsdsu)
* ((1-tsdsu)*iwl0+bfimvqh-0.50*rpimqhe) $
FRML _SJRDF fkmqhw = (1/dtfkqh)*0.38789**((0.20000/(1-0.20000))
* ((fYfqh/76032.83594)/1.37372)
* ( ( (lqh*627.44708)/(uimqh*39781.26563))
*(dtfkqh/dthqgh) )
** (1-0.20000)
* ((1-0.38789)/0.38789)**0.20000+1 )
** (0.20000/(1-0.20000))*39781.26563 $
FRML _SJRDF Dlog(fKmqh) = 0.30480*Dlog(fKmqhw)
+ 0.36631*(log(fKmqhw(-1))-log(fKmqh(-1)))
+ rofKmqh
*( Dlog(fKmqh(-1))
-0.30480*Dlog(fKmqhw(-1))
-0.36631*(log(fKmqhw(-2))-log(fKmqh(-2))) ) $

FRML _GJ_D fKmqhk = fKmqh $
FRML _DJRD fImqh = dif(fKmqh) + bfimvqh*fKmqh(-1) $
FRML _DJRD fKnmqh = fImqh + (1-bfinmvqh)*fKnmqh(-1) $

FRML _SJRDF HQqhn = (1/dthqgh)
* ( (1/(1-0.38789))
* ((fYfqh/76032.83594)/1.37372)
**(-(1/0.20000-1))
-(0.38789/(1-0.38789))
*(dtfkqh*fKmqhk/39781.26563)**(-(1/0.20000-1)) )
**(-(1/(1/0.20000-1)))*627.44708 $
FRML _SJRDF log(HQqh) = 0.42677*(log(HQqhn)-log(Hgn))+log(Hgn)
+ (1-0.42677+(-0.26671))
*(log(HQqhn(-1))-log(Hgn(-1)))
- (-0.26671)*(log(HQqhn(-2))-log(Hgn(-2))) +
rohqgh
*( log(HQqh(-1))
-( 0.42677*(log(HQqhn(-1))-log(Hgn(-1)))
+(1-0.42677+(-0.26671))

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                                *(log(HQqhn(-2))-log(Hgn(-2)))-(-0.26671)
                                *(log(HQqhn(-3))-log(Hgn(-3)))+log(Hgn(-1)) ) ) $
FRML _GJRD   Qqh      = HQqh/Hgn*1000 $
FRML _G      Qsqh      = bqsqh*Qqh $
FRML _I      Qwqh      = Qqh-Qsqh $
FRML _G      Ywqh      = lnak1*Hgn*Qwqh*0.001 $
FRML _DJR    lqh       = (Ywqh+sigal)/(Qwqh*Hgn)*1000 $

FRML _SJR    HQqhw     = (1/dthqgh)*(1-0.38789)**(0.20000/(1-0.20000))
                                *((fYfqh/76032.83594)/1.37372)
                                *( ( ( (uimqh*39781.26563)/(lqh*627.44708) )
                                    *(dthqgh/dtfkmqh) )
                                    *(1-0.20000)
                                    *(0.38789/(1-0.38789))**0.20000+1 )
                                    *(0.20000/(1-0.20000))*627.44708 $

() -----
() qs-erhvervet
() -----
()
()
FRML _DJ_D   rpimqse    = 0.25*rpimqse(-1) + 0.75*(pimqs/pimqs(-1)-1) $
FRML _DJ_D   bfknmqsw  = fknmqsw/fknmqsw $
FRML _DJR    uimqs      = bfknmqsw*pimqs*(1-tsdsu*bivpm)/(1-tsdsu)
                                *((1-tsdsu)*iwlo+bfinmvqs-0.50*rpimqse) $
FRML _SJR    fkmqsw     = (1/dtfkmqs)*0.82501**0.40000/(1-0.40000)
                                *((fXqs/13841.24219)/1.89672)
                                *( ( (lqs*28.74300)/(uimqs*89655.19531) )
                                    *(dtfkmqs/dthqqs) )
                                    *(1-0.40000)
                                    *((1-0.82501)/0.82501)**0.40000+1 )
                                    *(0.40000/(1-0.40000))*89655.19531 $

FRML _GJ_D   fKmqsk     = fKmqsk $
FRML _SJRDF  Dlog(fKmqsw) = 0.20*Dlog(fKmqsw) + 0.20*Dlog(fKmqsw(-1))
                                + 0.20*Dlog(fKmqsw(-2)) + 0.20*Dlog(fKmqsw(-3))
                                + 0.20*Dlog(fKmqsw(-4)) $

FRML _DJR    fImqs      = dif(fKmqsk) + bfinmvqs*fKmqsk(-1) $
FRML _DJR    fKmqsk     = fImqs + (1-bfinmvqs)*fKmqsk(-1) $

FRML _SJR    HQqsw     = (1/dthqqs)*(1-0.82501)**(0.40000/(1-0.40000))
                                *((fXqs/13841.24219)/1.89672)
                                *( ( (uimqs*89655.19531)/(lqs*28.74300) )
                                    *(dthqqs/dtfkmqs) )
                                    *(1-0.40000)
                                    *(0.82501/(1-0.82501))**0.40000+1 )
                                    *(0.40000/(1-0.40000))*28.74300 $

FRML _SJRDF  Dlog(HQqs) = 0.65*(Dlog(HQqsw)-Dlog(Hgn)) + Dlog(Hgn)
                                + 0.20*(Dlog(HQqsw(-1))-Dlog(Hgn(-1)))
                                + 0.15*(Dlog(HQqsw(-2))-Dlog(Hgn(-2))) $

FRML _GJRD   Qqs       = HQqs/Hgn*1000 $
FRML _G      Qsqqs     = bqsqs*Qqs $
FRML _I      Qwqs     = Qqs-Qsqqs $
FRML _G      Ywqs     = lnak1*Hgn*Qwqs*0.001*klqs $
FRML _DJR    lqs       = (Ywqs+0.00*Sigam+0.00*Siqum+0.001*Siqab)
                                /(Qwqs*Hgn)*1000 $

() -----
() qt-erhvervet
() -----
()
()
FRML _DJ_D   rpimqte    = 0.25*rpimqte(-1) + 0.75*(pimqt/pimqt(-1)-1) $
FRML _DJ_D   bfknmqte  = fknmqte/fknmqte $
FRML _DJR    uimqt     = bfknmqte*pimqt*(1-tsdsu*bivpm)/(1-tsdsu)
                                *((1-tsdsu)*iwlo+bfinmvqt-0.50*rpimqte) $
FRML _SJR    fkmqt     = (1/dtfkmqt)*0.95254**0.10058/(1-0.10058)
                                *((fYfqte/44800.38281)/0.95471)
                                *( ( (lqt*251.71408)/(uimqt*68615.69531) )
                                    *(dtfkmqt/dthqqt) )
                                    *(1-0.10058)
                                    *((1-0.95254)/0.95254)**0.10058+1 )
                                    *(0.10058/(1-0.10058))*68615.69531 $

FRML _SJRDF  Dlog(fKmqte) = 0.13749*Dlog(fKmqte)
                                + 0.18911*(log(fKmqte(-1))-log(fKmqte(-1)))
                                + rofKmqte
                                *( Dlog(fKmqte(-1))
                                    -0.13749*Dlog(fKmqte(-1))
                                    -0.18911*(log(fKmqte(-2))-log(fKmqte(-2))) ) ) $

FRML _GJ_D   fKmqtk     = fKmqtk $
FRML _DJR    fImqt     = dif(fKmqte) + bfinmvqt*fKmqte(-1) $

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FRML _DJRD fKnmqt = fImqt + (1-bfinmvqt)*fKnmqt(-1) $
FRML _SJRDF HQqtn = (1/dthqqt)
                    *( (1/(1-0.95254))
                      *((fYfqt/44800.38281)/0.95471)
                      **(-1/0.10058-1))
                    -(0.95254/(1-0.95254))
                    *(dtfkmqt*fKmqtk/68615.69531)**(-1/0.10058-1)) )
FRML _SJRDF log(HQqt) = 0.34115*(log(HQqtn)-log(Hgn))+log(Hgn)
                    + (1-0.34115+(-0.38217))
                    *(log(HQqtn(-1))-log(Hgn(-1)))
                    - (-0.38217)*(log(HQqtn(-2))-log(Hgn(-2)))) +
                    rohqqt
                    *( log(HQqt(-1))
                      -( 0.34115*(log(HQqtn(-1))-log(Hgn(-1)))
                        +(1-0.34115+(-0.38217))
                        *(log(HQqtn(-2))-log(Hgn(-2)))-(-0.38217)
                        *(log(HQqtn(-3))-log(Hgn(-3)))+log(Hgn(-1))) ) ) $
FRML _GJRD Qqt = HQqt/Hgn*1000 $
FRML _G Qsqt = bqsqt*Qqt $
FRML _I Qwqt = Qqt-Qsqt $
FRML _G Ywqt = lnakl*Hgn*Qwqt*0.001 $
FRML _DJR lqt = (Ywqt+siqal)/(Qwqt*Hgn)*1000 $

FRML _SJRDF HQqtw = (1/dthqqt)*(1-0.95254)**(0.10058/(1-0.10058))
                    *( (fYfqt/44800.38281)/0.95471)
                    *( ( (uimqt*68615.69531)/(lqt*251.71408))
                      *(dthqqt/dtfkmqt) )
                    ** (1-0.10058)
                    *(0.95254/(1-0.95254))**0.10058+1 )
                    *(0.10058/(1-0.10058))*251.71408 $

() -----
() qf-erhvervet
() -----
()
FRML _DJ_D rpimqfe = 0.25*rpimqfe(-1) + 0.75*(pimqf/pimqf(-1)-1) $
FRML _DJ_D bfknmqf = fKnmqf/fKmqf $
FRML _DJRD uimqf = bfknmqf*pimqf*(1-tsdsu*bivpm)/(1-tsdsu)
                *((1-tsdsu)*iwlo+bfinmvqf-0.50*rpimqfe) $
FRML _SJRDF fkmqfw = (fXqf/46763.26563)/0.35030/dtfkmqf*5636.15283 $
FRML _SJRDF Dlog(fKmqf) = 0.20*Dlog(fKmqfw) + 0.20*Dlog(fKmqfw(-1))
                    + 0.20*Dlog(fKmqfw(-2)) + 0.20*Dlog(fKmqfw(-3))
                    + 0.20*Dlog(fKmqfw(-4)) $
FRML _DJRD fImqf = dif(fKmqf) + bfinmvqf*fKmqf(-1) $
FRML _DJRD fKnmqf = fImqf + (1-bfinmvqf)*fKnmqf(-1) $

FRML _SJRDF HQqfw = (fXqf/46763.26563)/1.36091/dthqqf*127.25789 $
FRML _SJRDF Dlog(HQqf) = 0.65*(Dlog(HQqfw)-Dlog(Hgn)) + Dlog(Hgn)
                    + 0.20*(Dlog(HQqfw(-1))-Dlog(Hgn(-1)))
                    + 0.15*(Dlog(HQqfw(-2))-Dlog(Hgn(-2))) $

FRML _GJRD Qqf = HQqf/Hgn*1000 $
FRML _G Qsqf = bqsqf*Qqf $
FRML _I Qwqf = Qqf-Qsqf $
FRML _G Ywqf = lnakl*Hgn*Qwqf*0.001 $
FRML _DJR lqf = (Ywqf+0.00*Siqam+0.01*Siqum+0.008*Siqab)
                /(Qwqf*Hgn)*1000 $

() -----
() qq-erhvervet
() -----
()
FRML _DJ_D rpimqqe = 0.25*rpimqqe(-1) + 0.75*(pimqq/pimqq(-1)-1) $
FRML _DJ_D bfknmqq = fKnmqq /fKmqq $
FRML _DJRD uimqq = bfknmqq*pimqq*(1-tsdsu*bivpm)/(1-tsdsu)
                *((1-tsdsu)*iwlo+bfinmvqq-0.50*rpimqqe) $
FRML _SJRDF fkmqqw = (1/dtfkmqq)*0.46014**((0.40000/(1-0.40000))
                    *((fYfqq/106434.18750)/0.85514)
                    *( ( (lqq*588.55164)/(uimqq*45941.41406))
                      *(dtfkmqq/dthqqq) )
                    ** (1-0.40000)
                    *((1-0.46014)/0.46014)**0.40000+1 )
                    **((0.40000/(1-0.40000))*45941.41406) $
FRML _SJRDF Dlog(fKmqq) = 0.12381*Dlog(fKmqqw)
                    + 0.32590*(log(fKmqqw(-1))-log(fKmqq(-1)))
                    + rofKmqq
                    *( Dlog(fKmqq(-1))
                      -0.12381*Dlog(fKmqqw(-1))

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-0.32590*(log(fKmqqw(-2))-log(fKmqq(-2))) ) $
FRML _GJ_D fKmqqk = fKmqq $
FRML _DJRD fImqq = dif(fKmqq) + bfinvqq*fKmqq(-1) $
FRML _DJRD fKnmqq = fImqq + (1-bfinmvqq)*fKnmqq(-1) $

FRML _SJRJ HQqqn = (1/dthqqq)
* ( 1/(1-0.46014) )
* ((fYfqq/106434.18750)/0.85514)
* (-1/0.40000-1)
- (0.46014/(1-0.46014) )
* (dtfkmqq*fKmqqk/45941.41406)**(-1/0.40000-1) )
* (-1/(1/0.40000-1)) *588.55164 $
FRML _SJRDF log(HQqq) = 0.35385*(log(HQqqn)-log(Hgn))+log(Hgn)
+ (1-0.35385+(-0.22807))
*(log(HQqqn(-1))-log(Hgn(-1)))
- (-0.22807)*(log(HQqqn(-2))-log(Hgn(-2))) +
rohqqq
*( log(HQqq(-1))
- ( 0.35385*(log(HQqqn(-1))-log(Hgn(-1)))
+ (1-0.35385+(-0.22807))
*(log(HQqqn(-2))-log(Hgn(-2))))-(-0.22807)
*(log(HQqqn(-3))-log(Hgn(-3)))+log(Hgn(-1)) ) ) $
FRML _GJRD Qqq = HQqq/Hgn*1000 $
FRML _G Qsqq = bqsqq*Qqq $
FRML _I Qwqq = Qqq-Qsqq $
FRML _G Ywqq = lnakl*Hgn*Qwqq*0.001 $
FRML _DJR lqq = (Ywqq+sigal)/(Qwqq*Hgn)*1000 $

FRML _SJRJ HQqqw = (1/dthqqq)*(1-0.46014)**(0.40000/(1-0.40000))
*((fYfqq/106434.18750)/0.85514)
* ( ( (uimqq*45941.41406)/(lqq*588.55164) )
*(dthqqq/dtfkmqq) )
** (1-0.40000)
*(0.46014/(1-0.46014))**0.40000+1 )
** (0.40000/(1-0.40000))*588.55164 $

```