

Table 1: Results from posterior maximization (parameters)

	Prior			Posterior	
	Dist.	Mean	Stdev	Mode	Stdev
$\alpha$	norm	0.300	0.0500	0.3872	0.0246
$\psi$	beta	0.500	0.1500	0.6004	0.0600
$\Phi$	norm	1.250	0.1250	1.1496	0.0485
$\iota_w$	beta	0.500	0.1500	0.2091	0.0903
$\xi_w$	beta	0.500	0.1000	0.9053	0.0220
$\iota_p$	beta	0.500	0.1500	0.1690	0.0638
$\xi_p$	beta	0.500	0.1000	0.8967	0.0325
$\sigma_c$	norm	1.500	0.3750	1.4485	0.0770
$\sigma_l$	norm	2.000	0.7500	0.5876	0.5465
$\lambda$	beta	0.700	0.1000	0.3047	0.0629
$\varphi$	norm	4.000	1.5000	0.0657	0.0150
$r_\pi$	norm	1.500	0.2500	1.6343	0.2380
$r_y$	norm	0.125	0.0500	0.0711	0.0512
$r_{\Delta y}$	norm	0.125	0.0500	0.3036	0.0260
$\rho$	beta	0.750	0.1000	0.9616	0.0171
$n_*$	norm	0.000	2.0000	2.5339	0.6280
$\gamma$	norm	0.400	0.1000	0.5926	0.0849
$\zeta_{sp}$	beta	0.050	0.0050	0.0421	0.0045
$\bar{\pi}$	gamm	0.625	0.2000	0.4239	0.0742
$\rho_{ga}$	beta	0.500	0.2000	0.6312	0.1913
$\rho_a$	beta	0.500	0.2000	0.9695	0.0103
$\rho_b$	beta	0.500	0.2000	0.8830	0.0169
$\rho_g$	beta	0.500	0.2000	0.9801	0.0068
$\rho_i$	beta	0.500	0.2000	0.9960	0.0020
$\rho_r$	beta	0.500	0.2000	0.0528	0.0328
$\rho_p$	beta	0.500	0.2000	0.9559	0.0337
$\rho_w$	beta	0.500	0.2000	0.2604	0.1498
$\rho_{\sigma_w}$	beta	0.750	0.1500	0.9950	0.0042
$\rho_{\pi_*}$	beta	0.750	0.1500	0.8403	0.1448
$\mu_p$	beta	0.500	0.2000	0.8239	0.0592
$\mu_w$	beta	0.500	0.2000	0.4294	0.1262

Table 2: Results from posterior maximization (standard deviation of structural shocks)

	Prior			Posterior	
	Dist.	Mean	Stdev	Mode	Stdev
$\eta^a$	invg	0.100	2.0000	0.5790	0.0311
$\eta^b$	invg	0.100	2.0000	0.1317	0.0118
$\eta^g$	invg	0.100	2.0000	2.5208	0.1211
$\eta^i$	invg	0.100	2.0000	2.0804	0.2877
$\eta^m$	invg	0.100	2.0000	0.3436	0.0260
$\eta^p$	invg	0.100	2.0000	0.1864	0.0124
$\eta^w$	invg	0.100	2.0000	0.4933	0.0304
$\eta^{\sigma_w}$	invg	0.100	2.0000	0.0694	0.0077
$\eta^{\pi*}$	invg	0.100	2.0000	0.0458	0.0185

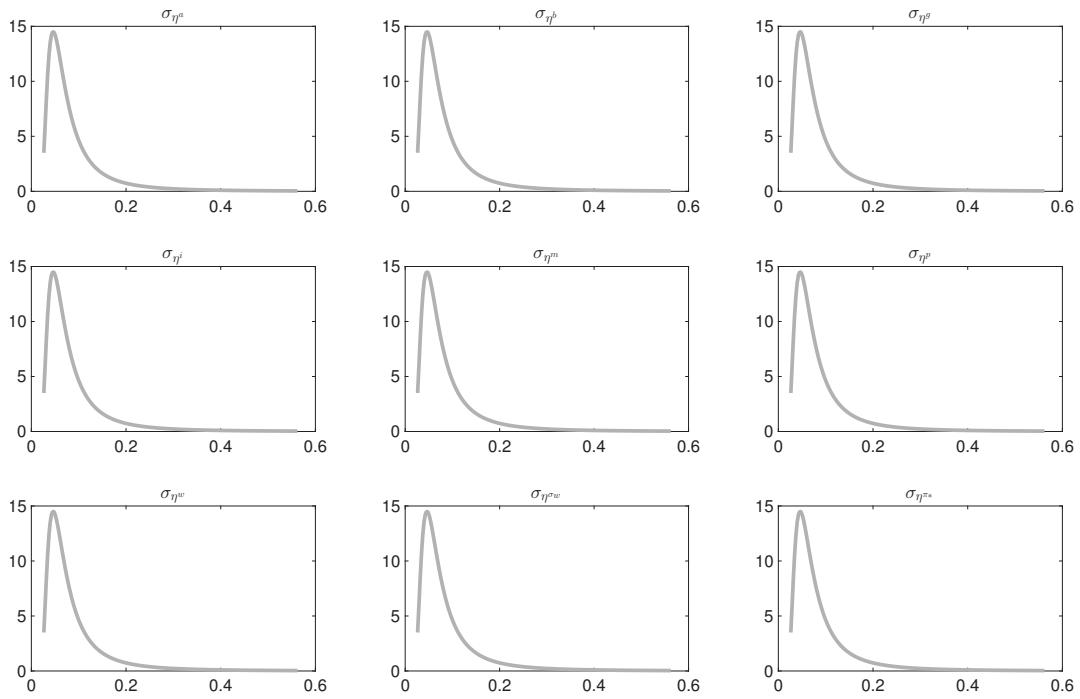


Figure 1: Priors.

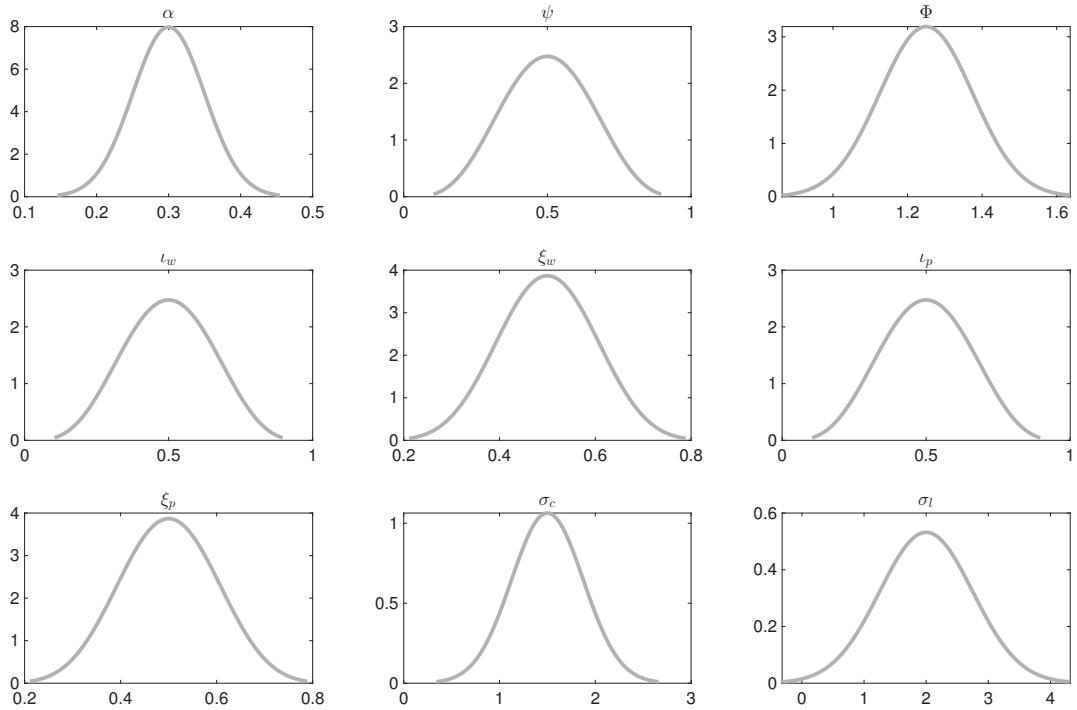


Figure 2: Priors.

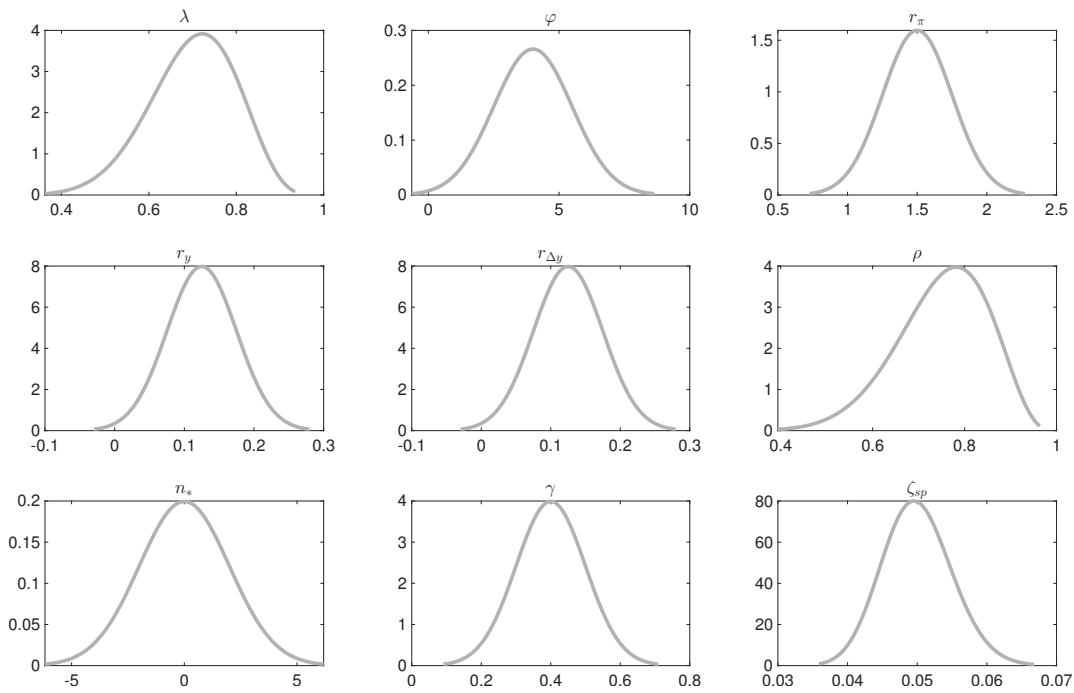


Figure 3: Priors.

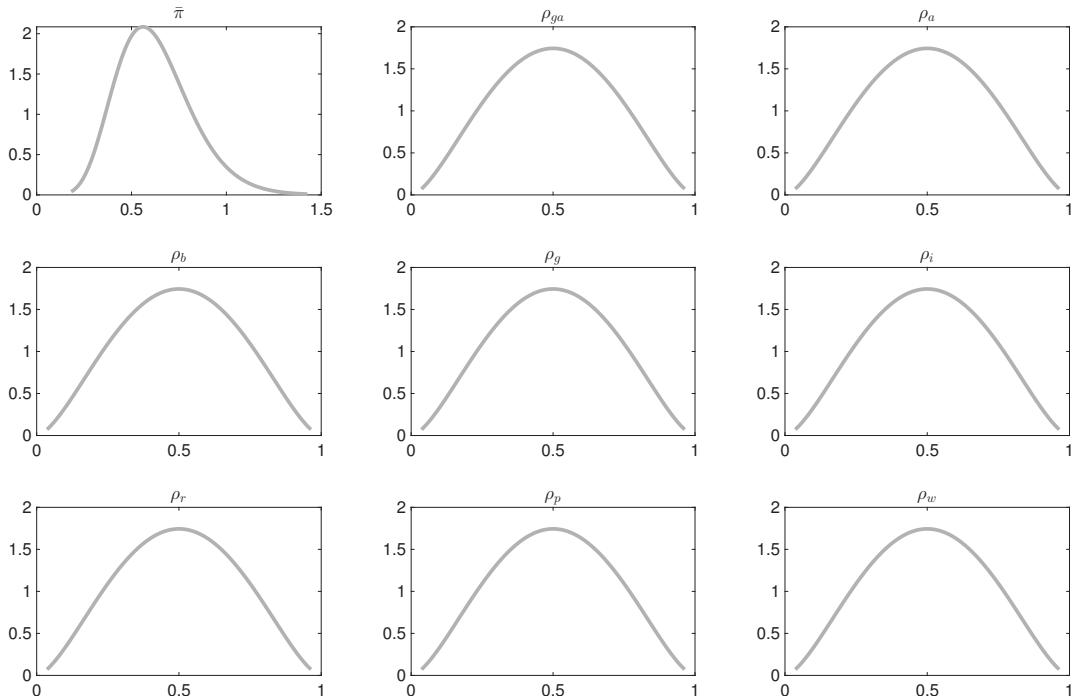


Figure 4: Priors.

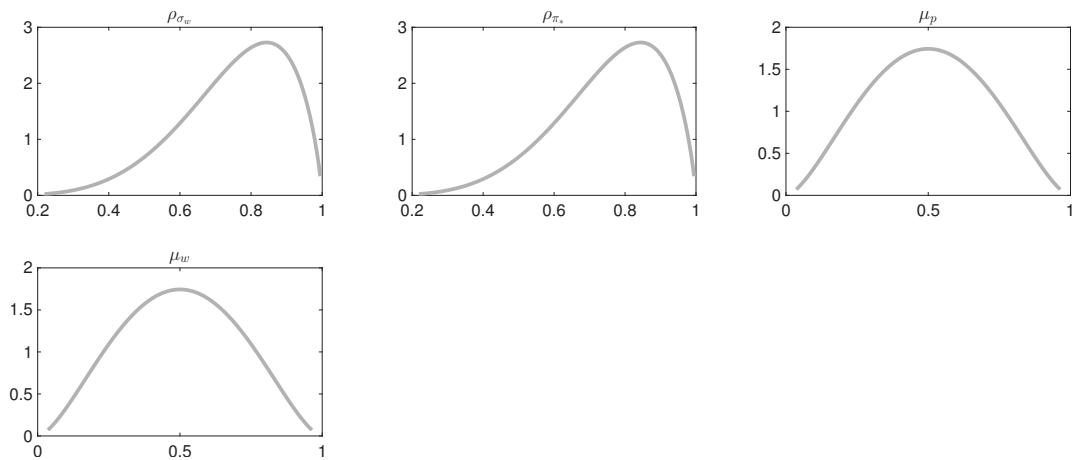


Figure 5: Priors.

Table 3: MATRIX OF COVARIANCE OF EXOGENOUS SHOCKS

<i>Variables</i>	$\eta^a$	$\eta^b$	$\eta^g$	$\eta^i$	$\eta^m$	$\eta^p$	$\eta^w$	$\eta^{\sigma_w}$	$\eta^{\pi_*}$
$\eta^a$	0.335218	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
$\eta^b$	0.000000	0.017344	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
$\eta^g$	0.000000	0.000000	6.354620	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
$\eta^i$	0.000000	0.000000	0.000000	4.328249	0.000000	0.000000	0.000000	0.000000	0.000000
$\eta^m$	0.000000	0.000000	0.000000	0.000000	0.118035	0.000000	0.000000	0.000000	0.000000
$\eta^p$	0.000000	0.000000	0.000000	0.000000	0.000000	0.034740	0.000000	0.000000	0.000000
$\eta^w$	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.243363	0.000000	0.000000
$\eta^{\sigma_w}$	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.004818	0.000000
$\eta^{\pi_*}$	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.002100
$\eta^{z_p}$	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

Table 4: Endogenous

Variable	LATEX	Description
c	$c$	Consumption
inve	$i$	Investment
y	$y$	Output
lab	$l$	hours worked
pinf	$\pi$	Inflation
w	$w$	real wage
r	$r$	nominal interest rate
rk	$r^k$	rental rate of capital
k	$k^s$	Capital services
mc	$\mu_p$	gross price markup
spinf	$\varepsilon^p$	Price markup shock process
sw	$\varepsilon^w$	Wage markup shock process
g	$\varepsilon^g$	Exogenous spending
b	$c_2 * \varepsilon_t^b$	Scaled risk premium shock
rkf	$r^{k,flex}$	rental rate of capital flex price economy
kf	$k^{s,flex}$	Capital services flex price economy
cf	$c^{flex}$	Consumption flex price economy
invef	$i^{flex}$	Investment flex price economy
yf	$y^{flex}$	Output flex price economy
labf	$l^{flex}$	hours worked flex price economy
wf	$w^{flex}$	real wage flex price economy
sobs	Spread	BBB-AAA Rate Spread
labobs	$lHOURS$	log hours worked
robs	$FEDFUND\$$	Federal funds rate
pinfofs	$dlP$	Inflation
dy	$dlGDP$	Output growth rate
dc	$dlCONS$	Consumption growth rate
dinve	$dlINV$	Investment growth rate
dw	$dlWAG$	Wage growth rate
wh	$w^h$	Marginal rate of substitution
rkttil	$r^{kttil}$	Return to capital
ztil	$z^{til}$	Stationary Technology shock
sigw	$\sigma_w$	Financial shock
pist	$\pi_*$	Inflation Target
og	$OG$	OutputGap
zp	$z_p$	Permanent Technology shock
n	$n$	Entrepreneurial Net Worth
z	$w$	Trend growth rate
u	$u$	Capital utilization rate
mu	$\varepsilon^i$	Investment-specific technology
rm	$\varepsilon^r$	Monetary policy shock process
kbar	$k$	Capital stock
qk	$q$	real value of existing capital stock
rf	$r^{flex}$	real interest rate flex price economy

Table 4 – Continued

Variable	LATEX	Description
kbarf	$k^{flex}$	Capital stock flex price economy
uf	$z^{flex}$	Capital utilization rate flex price economy
qkf	$q^{flex}$	real value of existing capital stock flex price economy
AUX_EXO_LAG_52_0	AUX_EXO_LAG_52_0	AUX_EXO_LAG_52_0
AUX_EXO_LAG_53_0	AUX_EXO_LAG_53_0	AUX_EXO_LAG_53_0

Table 5: Exogenous

Variable	LATEX	Description
ea	$\eta^a$	TFP shock
eb	$\eta^b$	Risk Premium shock
eg	$\eta^g$	Spending shock
eqs	$\eta^i$	Investment-specific technology shock
em	$\eta^m$	Monetary policy shock
epinf	$\eta^p$	Price markup shock
ew	$\eta^w$	Wage markup shock
esigw	$\eta^{\sigma_w}$	Financial shock
epist	$\eta^{\pi_*}$	Inflation Target shock
ezp	$\eta^{z_p}$	Permanent technology shock

Table 6: Parameters

Variable	LATEX	Description
cbeta	$\beta$	discount rate
cepssp	$\varepsilon_w$	Curvature Kimball aggregator wages
cepsw	$\varepsilon_p$	Curvature Kimball aggregator prices
calfa	$\alpha$	capital share
czcap	$\psi$	capacity utilization cost
csadjcost	$\varphi$	investment adjustment cost
ctou	$\delta$	depreciation rate
csigma	$\sigma_c$	risk aversion
chabb	$\lambda$	external habit degree
cfc	$\Phi$	fixed cost share
cindw	$\iota_w$	Indexation to past wages
cprobw	$\xi_w$	Calvo parameter wages
cindp	$\iota_p$	Indexation to past prices
cprobp	$\xi_p$	Calvo parameter prices
csigl	$\sigma_l$	Frisch elasticity
crpi	$r_\pi$	Taylor rule inflation feedback
crdy	$r_{\Delta y}$	Taylor rule output growth feedback

Table 6 – Continued

Variable	LATEX	Description
cry	$r_y$	Taylor rule output level feedback
crr	$\rho$	interest rate persistence
czeta_spb	$\zeta_{sp}$	Spread elasticity
cgammstar	$\gamma^*$	Wealth parameter
cvstar	$v^*$	Wealth parameter
cnstar	$n_*$	SS Entrepreneurial wealth
czeta_nRk	$\zeta_{nRk}$	Net Worth parameter
czeta_nR	$\zeta_{nR}$	Net Worth parameter
czeta_nsigw	$\zeta_{n\sigma_w}$	Net Worth parameter
czeta_spsigw	$\zeta_{s\sigma_w}$	Net Worth parameter
czeta_nqk	$\zeta_{nqk}$	Net Worth parameter
czeta_nn	$\zeta_{nn}$	Net Worth parameter
cgy	$\rho_{ga}$	Feedback technology on exogenous spending
cmaw	$\mu_w$	coefficient on MA term wage markup
cmap	$\mu_p$	coefficient on MA term price markup
crhosigw	$\rho_{\sigma_w}$	persistence Financial shock
crhopist	$\rho_{\pi_*}$	persistence Inflation Target shock
crhozp	$\rho_{zp}$	persistence permanent technology shock
csigma_spinf	$\sigma_{map}$	price markup MA scaling
csigma_sw	$\sigma_{maw}$	wage markup MA scaling
crhoa	$\rho_a$	persistence productivity shock
crhob	$\rho_b$	persistence risk premium shock
crhog	$\rho_g$	persistence spending shock
crhoqs	$\rho_i$	persistence risk premium shock
crhom	$\rho_r$	persistence monetary policy shock
crhopinf	$\rho_p$	persistence price markup shock
crhow	$\rho_w$	persistence wage markup shock
cgamma	$\gamma$	Adjusted trend
crkstar	$r\bar{k}$	SS return on capital
ckstar	$k^*$	Capital-Output ratio
ckbarstar	$\bar{k}^*$	SS Capital-Output ratio
cinvestar	$\frac{\bar{i}}{\bar{y}}$	Private investment share in aggregate output
cystar	$\frac{y_p}{\bar{y}}$	Private output share in aggregate output
ccstar	$\frac{c}{\bar{y}}$	Private consumption share in aggregate output
cwl_c	$wl_c$	Consumption wage parameter
conster	$\bar{r}$	steady state interest rate
constelab	$\bar{l}$	steady state hours
constepinf	$\bar{\pi}$	steady state inflation rate
ctrend	$\bar{\gamma}$	net growth rate in percent
cg	$\frac{\bar{g}}{\bar{y}}$	steady state exogenous spending share

Table 7: Parameter Values

Parameter	Value	Description
$\beta$	0.999	discount rate
$\varepsilon_w$	10.000	Curvature Kimball aggregator wages
$\varepsilon_p$	10.000	Curvature Kimball aggregator prices
$\alpha$	0.387	capital share
$\psi$	0.600	capacity utilization cost
$\varphi$	0.066	investment adjustment cost
$\delta$	0.025	depreciation rate
$\sigma_c$	1.449	risk aversion
$\lambda$	0.305	external habit degree
$\Phi$	1.150	fixed cost share
$\iota_w$	0.209	Indexation to past wages
$\xi_w$	0.905	Calvo parameter wages
$\iota_p$	0.169	Indexation to past prices
$\xi_p$	0.897	Calvo parameter prices
$\sigma_l$	0.588	Frisch elasticity
$r_\pi$	1.634	Taylor rule inflation feedback
$r_{\Delta y}$	0.304	Taylor rule output growth feedback
$r_y$	0.071	Taylor rule output level feedback
$\rho$	0.962	interest rate persistence
$\zeta_{sp}$	0.042	Spread elasticity
$\gamma^*$	0.990	Wealth parameter
$v^*$	2.471	Wealth parameter
$n_*$	2.534	SS Entrepreneurial wealth
$\zeta_{nRk}$	1.694	Net Worth parameter
$\zeta_{nR}$	0.693	Net Worth parameter
$\zeta_{n\sigma_w}$	0.004	Net Worth parameter
$\zeta_{sp\sigma_w}$	0.028	Net Worth parameter
$\zeta_{nqk}$	0.002	Net Worth parameter
$\zeta_{nn}$	0.999	Net Worth parameter
$\rho_{ga}$	0.631	Feedback technology on exogenous spending
$\mu_w$	0.429	coefficient on MA term wage markup
$\mu_p$	0.824	coefficient on MA term price markup
$\rho_{\sigma_w}$	0.995	persistence Financial shock
$\rho_{\pi_*}$	0.840	persistence Inflation Target shock
$\rho_{zp}$	0.950	persistence permanent technology shock
$\sigma_{map}$	1.000	price markup MA scaling
$\sigma_{maw}$	1.000	wage markup MA scaling
$\rho_a$	0.970	persistence productivity shock
$\rho_b$	0.883	persistence risk premium shock
$\rho_g$	0.980	persistence spending shock
$\rho_i$	0.996	persistence risk premium shock
$\rho_r$	0.053	persistence monetary policy shock
$\rho_p$	0.956	persistence price markup shock

Table 7 – Continued

Parameter	Value	Description
$\rho_w$	0.260	persistence wage markup shock
$\gamma$	0.593	Adjusted trend
$r_k$	0.036	SS return on capital
$k^*$	4.149	Capital-Output ratio
$\bar{k}^*$	4.165	SS Capital-Output ratio
$\frac{\dot{i}}{\bar{y}}$	0.120	Private investment share in aggregate output
$\frac{\dot{y}_p}{\bar{y}}$	0.845	Private output share in aggregate output
$\frac{\dot{c}}{\bar{y}}$	0.573	Private consumption share in aggregate output
$wl_c$	0.808	Consumption wage parameter
$\bar{r}$	0.700	steady state interest rate
$\bar{l}$	0.000	steady state hours
$\bar{\pi}$	0.424	steady state inflation rate
$\bar{\gamma}$	0.400	net growth rate in percent
$\bar{g}$	0.180	steady state exogenous spending share

Table 8: Prior information (parameters)

Distribution		Mean	Mode	Std.dev.	Bounds*		90% HPDI	
					Lower	Upper	Lower	Upper
$\sigma_{\eta^a}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\sigma_{\eta^b}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\sigma_{\eta^g}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\sigma_{\eta^i}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\sigma_{\eta^m}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\sigma_{\eta^p}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\sigma_{\eta^w}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\sigma_{\eta^{\sigma_w}}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\sigma_{\eta^{\pi_*}}$	Inv. Gamma	0.1000	0.0461	2.0000	0.0118	5595.7204	0.0326	0.2490
$\alpha$	Gaussian	0.3000	0.3000	0.0500	-0.0181	0.6181	0.2178	0.3822
$\psi$	Beta	0.5000	0.5000	0.1500	0.0040	0.9960	0.2526	0.7474
$\Phi$	Gaussian	1.2500	1.2500	0.1250	0.4548	2.0452	1.0444	1.4556
$\iota_w$	Beta	0.5000	0.5000	0.1500	0.0040	0.9960	0.2526	0.7474
$\xi_w$	Beta	0.5000	0.5000	0.1000	0.0471	0.9529	0.3351	0.6649
$\iota_p$	Beta	0.5000	0.5000	0.1500	0.0040	0.9960	0.2526	0.7474
$\xi_p$	Beta	0.5000	0.5000	0.1000	0.0471	0.9529	0.3351	0.6649
$\sigma_c$	Gaussian	1.5000	1.5000	0.3750	-0.8855	3.8855	0.8832	2.1168
$\sigma_l$	Gaussian	2.0000	2.0000	0.7500	-2.7710	6.7710	0.7664	3.2336
$\lambda$	Beta	0.7000	0.7222	0.1000	0.1025	0.9960	0.5242	0.8525
$\varphi$	Gaussian	4.0000	4.0000	1.5000	-5.5420	13.5420	1.5327	6.4673
$r_\pi$	Gaussian	1.5000	1.5000	0.2500	-0.0903	3.0903	1.0888	1.9112
$r_y$	Gaussian	0.1250	0.1250	0.0500	-0.1931	0.4431	0.0428	0.2072
$r_{\Delta y}$	Gaussian	0.1250	0.1250	0.0500	-0.1931	0.4431	0.0428	0.2072
$\rho$	Beta	0.7500	0.7817	0.1000	0.1073	0.9991	0.5701	0.8971
$n_*$	Gaussian	0.0000	0.0000	2.0000	-12.7227	12.7227	-3.2897	3.2897
$\gamma$	Gaussian	0.4000	0.4000	0.1000	-0.2361	1.0361	0.2355	0.5645
$\zeta_{sp}$	Beta	0.0500	0.0495	0.0050	0.0243	0.0881	0.0421	0.0585
$\bar{\pi}$	Gamma	0.6250	0.5610	0.2000	0.0280	2.8267	0.3362	0.9862
$\rho_{ga}$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\rho_a$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\rho_b$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\rho_g$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\rho_i$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\rho_r$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\rho_p$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\rho_w$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\rho_{\sigma_w}$	Beta	0.7500	0.8438	0.1500	0.0114	1.0000	0.4671	0.9519

\*Displayed bounds are after applying a prior truncation of options'.trunc=0.000

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Table 8: (continued)

Distribution		Mean	Mode	Std.dev.	Bounds*		90% HPDI	
					Lower	Upper	Lower	Upper
$\rho_{\pi_*}$	Beta	0.7500	0.8438	0.1500	0.0114	1.0000	0.4671	0.9519
$\mu_p$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282
$\mu_w$	Beta	0.5000	0.5000	0.2000	0.0001	0.9999	0.1718	0.8282

Note: Displayed bounds are after applying a prior truncation of options..prior\_trunc=1.00e-10

Table 9: COEFFICIENTS OF AUTOCORRELATION

<i>Order</i>	1	2	3	4	5
<i>y</i>	0.9918	0.9806	0.9686	0.9566	0.9447
<i>c</i>	0.9935	0.9853	0.9767	0.9681	0.9595
<i>i</i>	0.9909	0.9738	0.9530	0.9310	0.9091
$\pi$	0.9009	0.8655	0.8404	0.8169	0.7934
<i>r</i>	0.9555	0.8995	0.8436	0.7905	0.7411
<i>w</i>	0.9961	0.9908	0.9841	0.9760	0.9667
<i>k<sup>s</sup></i>	0.9978	0.9950	0.9917	0.9879	0.9837
<i>l</i>	0.9895	0.9745	0.9584	0.9423	0.9264
<i>q</i>	0.9951	0.9906	0.9865	0.9824	0.9784
<i>n</i>	0.9967	0.9929	0.9888	0.9843	0.9795
<i>r<sup>ktil</sup></i>	0.3320	0.3459	0.3450	0.3381	0.3285
<i>OG</i>	0.9900	0.9754	0.9598	0.9439	0.9283

Table 10: MATRIX OF CORRELATIONS

<i>Variables</i>	<i>y</i>	<i>c</i>	<i>i</i>	$\pi$	<i>r</i>	<i>w</i>	$k^s$	<i>l</i>	<i>q</i>	<i>n</i>
<i>y</i>	1.0000	0.9493	0.8511	0.2389	0.2604	0.3346	0.7216	0.5998	-0.4700	0.3337
<i>c</i>	0.9493	1.0000	0.7771	0.1773	0.1703	0.2928	0.7126	0.5420	-0.5185	0.3312
<i>i</i>	0.8511	0.7771	1.0000	0.3729	0.3710	0.5710	0.8308	0.2543	-0.5191	0.4678
$\pi$	0.2389	0.1773	0.3729	1.0000	0.7523	0.6747	0.4785	-0.2075	-0.0134	0.4545
<i>r</i>	0.2604	0.1703	0.3710	0.7523	1.0000	0.5704	0.3879	-0.0666	-0.0385	0.2680
<i>w</i>	0.3346	0.2928	0.5710	0.6747	0.5704	1.0000	0.8178	-0.4622	-0.3098	0.6847
$k^s$	0.7216	0.7126	0.8308	0.4785	0.3879	0.8178	1.0000	-0.1182	-0.6309	0.6949
<i>l</i>	0.5998	0.5420	0.2543	-0.2075	-0.0666	-0.4622	-0.1182	1.0000	0.0562	-0.3197
<i>q</i>	-0.4700	-0.5185	-0.5191	-0.0134	-0.0385	-0.3098	-0.6309	0.0562	1.0000	-0.2878
<i>n</i>	0.3337	0.3312	0.4678	0.4545	0.2680	0.6847	0.6949	-0.3197	-0.2878	1.0000
$r^{ktile}$	0.2130	0.1595	0.2536	0.6305	0.4771	0.3910	0.2747	-0.0096	-0.0170	0.2515
<i>OG</i>	0.8596	0.8005	0.6872	0.3267	0.3559	0.2532	0.4742	0.6926	-0.0178	0.1872

Table 11: THEORETICAL MOMENTS

<i>VARIABLE</i>	<i>MEAN</i>	<i>STD.DEV.</i>	<i>VARIANCE</i>
$y$	0.0000	10.2167	104.3809
$c$	0.0000	12.1470	147.5495
$i$	0.0000	19.0177	361.6731
$\pi$	0.0000	0.7099	0.5040
$r$	0.0000	0.8597	0.7390
$w$	0.0000	15.8556	251.3990
$k^s$	0.0000	18.5173	342.8893
$l$	0.0000	10.0313	100.6278
$q$	0.0000	8.8184	77.7642
$n$	0.0000	21.7738	474.0977
$r^{ktil}$	0.0000	1.1464	1.3142
$OG$	0.0000	8.8548	78.4080

Table 12: VARIANCE DECOMPOSITION (in percent)

	$\eta^a$	$\eta^b$	$\eta^g$	$\eta^i$	$\eta^m$	$\eta^p$	$\eta^w$	$\eta^{\sigma_w}$	$\eta^{\pi^*}$	$\eta^{z_p}$
$y$	1.00	3.88	1.96	23.78	60.05	1.78	0.06	0.43	0.15	6.91
$c$	0.81	4.75	1.41	29.33	55.66	1.00	0.05	0.51	0.14	6.34
$i$	1.15	2.53	0.03	29.65	40.72	4.06	0.42	12.53	0.09	8.81
$\pi$	1.04	0.87	0.03	0.03	6.28	28.01	0.76	0.32	0.02	62.66
$r$	1.59	34.61	0.45	1.02	3.11	5.84	0.60	1.59	0.02	51.17
$w$	2.65	0.10	0.06	11.69	7.12	7.87	0.87	0.32	0.02	69.30
$k^s$	2.19	0.36	0.11	46.58	24.78	2.74	0.15	1.94	0.06	21.10
$l$	1.09	4.97	2.76	3.21	37.24	0.43	0.20	0.74	0.10	49.25
$q$	0.01	0.04	0.00	99.82	0.06	0.01	0.00	0.04	0.00	0.01
$n$	2.33	4.00	0.13	25.70	15.55	1.66	0.10	21.10	0.04	29.39
$r^{ktl}$	0.74	4.04	0.11	45.62	7.28	12.56	0.67	3.55	0.01	25.42
$OG$	0.60	5.17	0.25	0.40	79.94	2.38	0.08	0.57	0.20	10.42

$$cbetabar=\beta\,\exp\left(\left(1-\sigma_c\right)\,\gamma\right)$$

$$cpie=1+\frac{\bar{\pi}}{100}$$

$$crss = \frac{cpie}{cbetabar}$$

$$clandap=\Phi$$

$$c1=\frac{\lambda\,\exp\left((- \gamma)\right)}{1+\lambda\,\exp\left((- \gamma)\right)}$$

$$c2=\frac{1-\lambda\,\exp\left((- \gamma)\right)}{\sigma_c\,\left(1+\lambda\,\exp\left((- \gamma)\right)\right)}$$

$$c3=\frac{1}{1+\lambda\,\exp\left((- \gamma)\right)}$$

$$c4=\frac{1}{1-\alpha}\,\left(\rho_a-1\right)$$

$$c5=\frac{\left(\sigma_c-1\right)\,wl_c}{\sigma_c\,\left(1+\lambda\,\exp\left((- \gamma)\right)\right)}$$

$$i1=\frac{1}{1+cbetabar}$$

$$i2=\frac{cbetabar}{1+cbetabar}$$

$$i3=\left(1+cbetabar\right)\varphi\,\exp\left(2\,\gamma\right)$$

$$k1=1-\frac{\frac{\bar{i}}{\bar{y}}}{\bar{k}^*}$$

$$k2=\frac{\frac{\bar{i}}{\bar{y}}}{\bar{k}^*}$$

$$k3=\frac{\left(1+cbetabar\right)\,\exp\left(2\,\gamma\right)\,\varphi\,\frac{\bar{i}}{\bar{y}}}{\bar{k}^*}$$

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$$u1=\frac{1-\psi}{\psi}$$

$$pi1 = \frac{\left(1 - cbetabar\,\xi_p\right)\,(1 - \xi_p)}{\xi_p\,\left(1 + (\Phi - 1)\,\varepsilon_w\right)}$$

$$pi2 = \frac{1}{1 + cbetabar\,\iota_p}$$

$$pi3 = \frac{\iota_p}{1 + cbetabar\,\iota_p}$$

$$pi4 = \frac{cbetabar}{1 + cbetabar\,\iota_p}$$

$$w1 = \frac{\left(1 - cbetabar\,\xi_w\right)\,(1 - \xi_w)}{\xi_w\,\left(1 + 0.5\,\varepsilon_p\right)}$$

$$w2 = \frac{1}{1 + cbetabar}$$

$$w3 = \frac{1 + cbetabar\,\iota_w}{1 + cbetabar}$$

$$w4 = \frac{cbetabar}{1 + cbetabar}$$

$$y1 = \frac{\frac{\bar c}{\bar y}}{\frac{\underline y p}{\bar y}}$$

$$y2 = \frac{\frac{\bar i}{\bar y}}{\frac{\underline y p}{\bar y}}$$

$$y3 = r\bar k\,\frac{k^*}{\frac{\bar y p}{\bar y}}$$

$$ff1 = \frac{r\bar k}{1 + r\bar k - \delta}$$

$$ff2 = \frac{1 - \delta}{1 + r\bar k - \delta}$$

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$$ff3 = \frac{\sigma_c \left(1 + \lambda \exp\left((- \gamma)\right)\right)}{1 - \lambda \exp\left((- \gamma)\right)}$$

$$ff4 = \frac{\gamma^* v^*}{n_*}$$

$$mrs1 = \frac{1}{1 - \lambda \exp\left((- \gamma)\right)}$$

$$c_t = (-c2) (r_t - \pi_{t+1}) + c_2 * \varepsilon_{tt}^b + c1 (c_{t-1} - w_t) + c3 (c_{t+1} + c4 z^{til}_t) + c5 (l_t - l_{t+1}) \quad (1)$$

$$q_t = i3 (i_t - i1 (i_{t-1} - w_t) - i2 i_{t+1} - z^{til}_t c4 i2 - \varepsilon_t^i) \quad (2)$$

$$k_t = k1 (k_{t-1} - w_t) + i_t k2 + \varepsilon_t^i k3 \quad (3)$$

$$k^s_t = k_{t-1} + u_t - w_t \quad (4)$$

$$u_t = u1 r^k_t \quad (5)$$

$$\mu_{p_t} = w_t + \alpha l_t - \alpha k^s_t \quad (6)$$

$$k^s_t = l_t + w_t - r^k_t \quad (7)$$

$$y_t = k^s_t \Phi \alpha + l_t \Phi (1 - \alpha) + z^{til}_t \frac{\Phi - 1}{1 - \alpha} \quad (8)$$

$$y_t = \frac{\bar{g}}{\bar{y}} \varepsilon^g_t + c_t y1 + i_t y2 + u_t y3 - z^{til}_t c4 \frac{\bar{g}}{\bar{y}} \quad (9)$$

$$\pi_t = \mu_{p_t} pi1 pi2 + pi3 \pi_{t-1} + \pi_{t+1} pi4 + \varepsilon_t^p \quad (10)$$

$$w_t = w1 w2 (w^h_t - w_t) - \pi_t w3 + w2 (w_{t-1} - w_t + \iota_w \pi_{t-1}) + w4 (\pi_{t+1} + c4 z^{til}_t + w_{t+1}) + \varepsilon_t^w \quad (11)$$

$$w^h_t = mrs1 (c_t - \lambda \exp\left((- \gamma)\right) c_{t-1} + \lambda \exp\left((- \gamma)\right) w_t) + l_t \sigma_l \quad (12)$$

$$r_t = \rho r_{t-1} + (1 - \rho) r_\pi (\pi_t - \pi_{*t}) + (1 - \rho) r_y (y_t - y^{flex}_t) + r_{\Delta y} (y_t - y^{flex}_t - (y_{t-1} - y^{flex}_{t-1})) + \varepsilon_t^r \quad (13)$$

$$r^{ktl}_t = \pi_t + r^k_t ff1 + q_t ff2 - q_{t-1} \quad (14)$$

$$r^{ktl}_{t+1} = r_t - c_2 * \varepsilon_{tt}^b f f 3 + \zeta_{sp} (q_t + k_t - n_t) + \sigma_{wt} \quad (15)$$

$$n_t = \zeta_{nRk} (r^{ktl}_t - \pi_t) - \zeta_{nR} (r_{t-1} - \pi_t) + \zeta_{nqk} (k_{t-1} + q_{t-1}) + \zeta_{nn} n_{t-1} - \frac{\zeta_{n\sigma_w}}{\zeta_{sp\sigma_w}} \sigma_{wt-1} - w_t f f 4 \quad (16)$$

$$c^{flex}_t = c_2 * \varepsilon_{tt}^b + (-c2) r^{flex}_t + c1 (c^{flex}_{t-1} - w_t) + c3 (c4 z^{til}_t + c^{flex}_{t+1}) + c5 (l^{flex}_t - l^{flex}_{t+1}) \quad (17)$$

$$q^{flex}_t = i3 (i^{flex}_t - i1 (i^{flex}_{t-1} - w_t) - i2 i^{flex}_{t+1} - z^{til}_t c4 i2 - \varepsilon_t^i) \quad (18)$$

$$k^{flex}_t = \varepsilon_t^i k3 + k1 (k^{flex}_{t-1} - w_t) + k2 i^{flex}_t \quad (19)$$

$$k^{s,flex}_t = k^{flex}_{t-1} + z^{flex}_t - w_t \quad (20)$$

$$z^{flex}_t = u1 r^{k,flex}_t \quad (21)$$

$$w^{flex}_t = l^{flex}_t (-\alpha) + \alpha k^{s,flex}_t \quad (22)$$

$$k^{s,flex}_t = l^{flex}_t + w^{flex}_t - r^{k,flex}_t \quad (23)$$

$$y^{flex}_t = z^{til}_t \frac{\Phi - 1}{1 - \alpha} + \Phi \alpha k^{s,flex}_t + \Phi (1 - \alpha) l^{flex}_t \quad (24)$$

$$y^{flex}_t = \bar{g} \varepsilon_t^g + y1 c^{flex}_t + y2 i^{flex}_t + y3 z^{flex}_t - z^{til}_t c4 \frac{\bar{g}}{y} \quad (25)$$

$$w^{flex}_t = mrs1 (\lambda \exp ((-\gamma)) w_t + c^{flex}_t - \lambda \exp ((-\gamma)) c^{flex}_{t-1}) + \sigma_l l^{flex}_t \quad (26)$$

$$q^{flex}_t = c_2 * \varepsilon_{tt}^b f f 3 + f f 1 r^{k,flex}_{t+1} + f f 2 q^{flex}_{t+1} - r^{flex}_t \quad (27)$$

$$OG_t = y_t - y^{flex}_t \quad (28)$$

$$w_t = c4 z^{til}_{t-1} + \frac{1}{1 - \alpha} \eta^a_t + z_{pt} \quad (29)$$

$$z^{til}_t = \eta^a_t + \rho_a z^{til}_{t-1} \quad (30)$$

$$\varepsilon_t^g = \rho_g \varepsilon_{t-1}^g + \eta^g_t + \eta^a_t \rho_{ga} \quad (31)$$

$$c_2 * \varepsilon_{tt}^b = \rho_b c_2 * \varepsilon_{tt-1}^b + \eta^b_t \quad (32)$$

$$\varepsilon^i_t = \rho_i \varepsilon^i_{t-1} + \eta^i_t \quad (33)$$

$$\varepsilon^p_t = \rho_p \varepsilon^p_{t-1} + \eta^p_t - \mu_p \sigma_{map} \eta^p_{t-1} \quad (34)$$

$$\varepsilon^w_t = \rho_w \varepsilon^w_{t-1} + \eta^w_t - \mu_w \sigma_{maw} \eta^w_{t-1} \quad (35)$$

$$\varepsilon^r_t = \rho_r \varepsilon^r_{t-1} + \eta^m_t \quad (36)$$

$$\sigma_{wt} = \sigma_{wt-1} \rho_{\sigma_w} + \eta^{\sigma_w}_t \quad (37)$$

$$\pi_{*t} = \rho_{\pi_*} \pi_{*t-1} + \eta^{\pi_*}_t \quad (38)$$

$$z_{pt} = \rho_{zp} z_{pt-1} + \eta^{z_p}_t \quad (39)$$

$$dlGDP_t = w_t + y_t - y_{t-1} + \bar{\gamma} \quad (40)$$

$$dlCONS_t = w_t + \bar{\gamma} + c_t - c_{t-1} \quad (41)$$

$$dlINV_t = w_t + \bar{\gamma} + i_t - i_{t-1} \quad (42)$$

$$dlWAG_t = w_t + \bar{\gamma} + w_t - w_{t-1} \quad (43)$$

$$lHOURS_t = l_t + \bar{l} \quad (44)$$

$$FEDFUNDS_t = r_t + \bar{r} \quad (45)$$

$$dlP_t = \bar{\pi} + \pi_t \quad (46)$$

$$Spread_t = 100 \left( r^{ktil}_t - r_t \right) + 0.02 \quad (47)$$

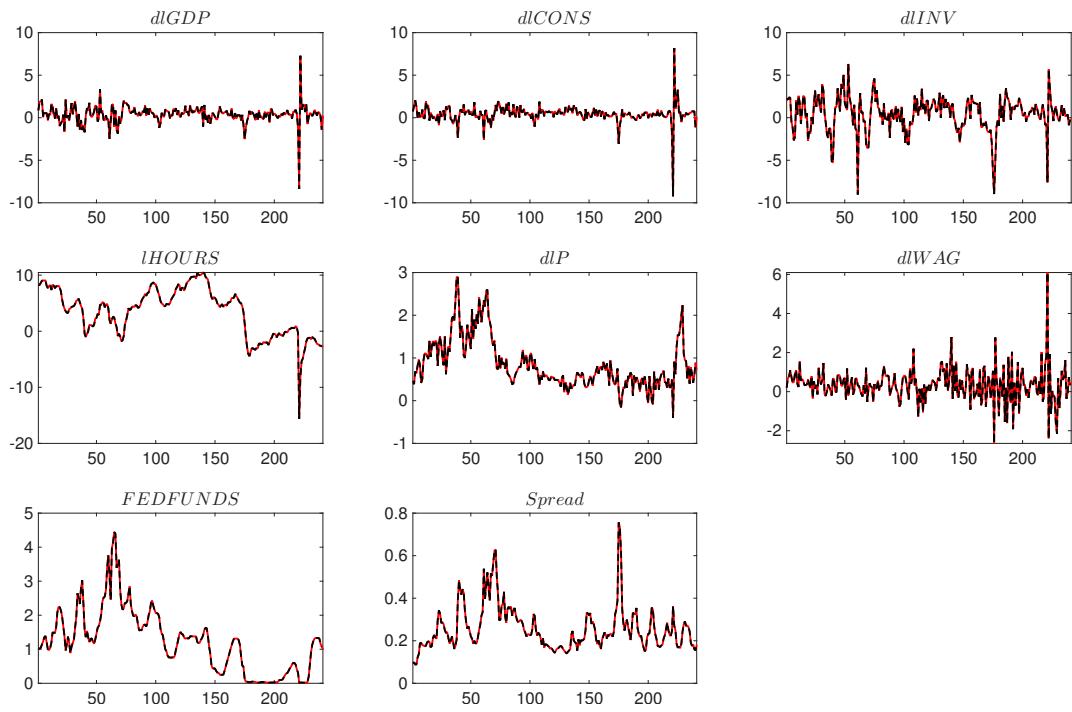


Figure 6: Historical and smoothed variables.

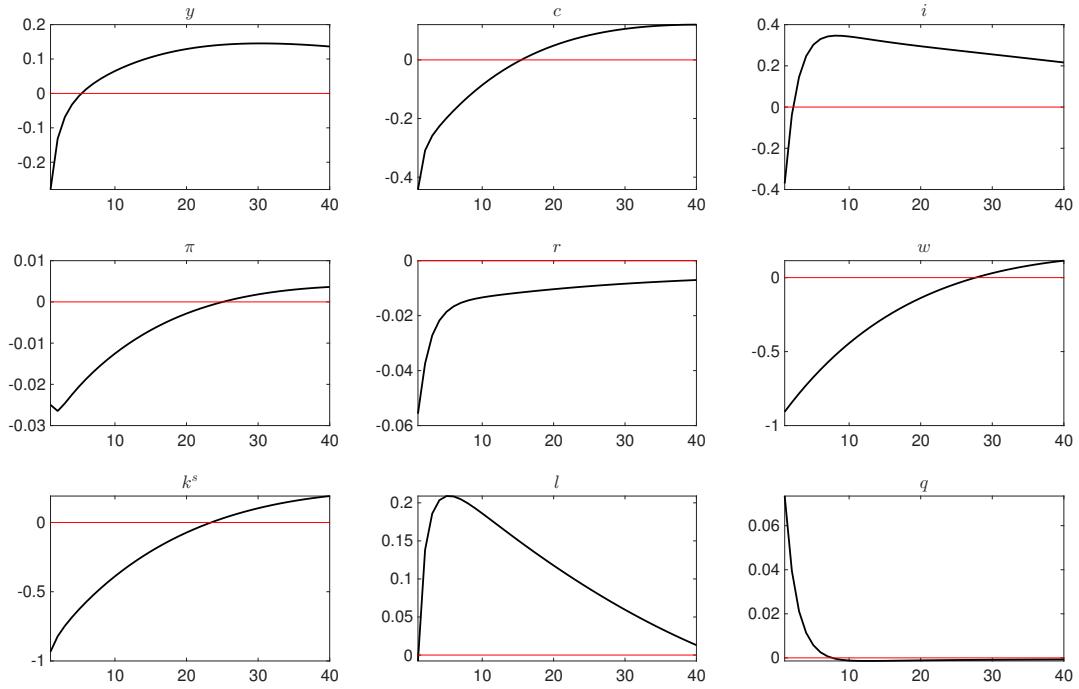


Figure 7: Impulse response functions (orthogonalized shock to  $\eta^a$ ).

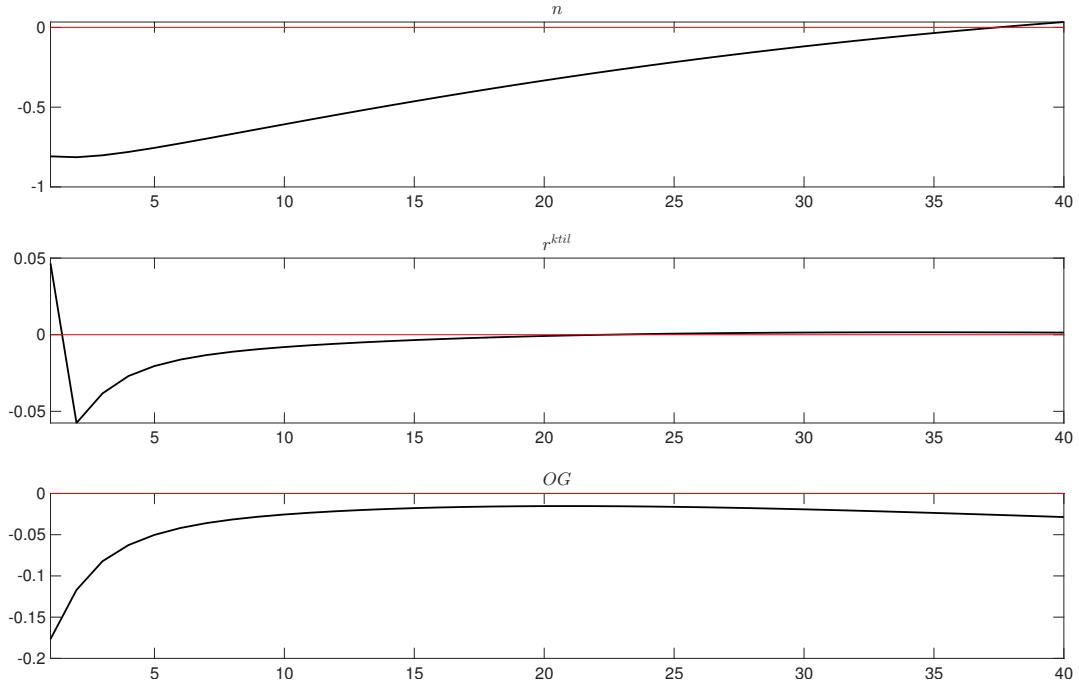


Figure 8: Impulse response functions (orthogonalized shock to  $\eta^a$ ).

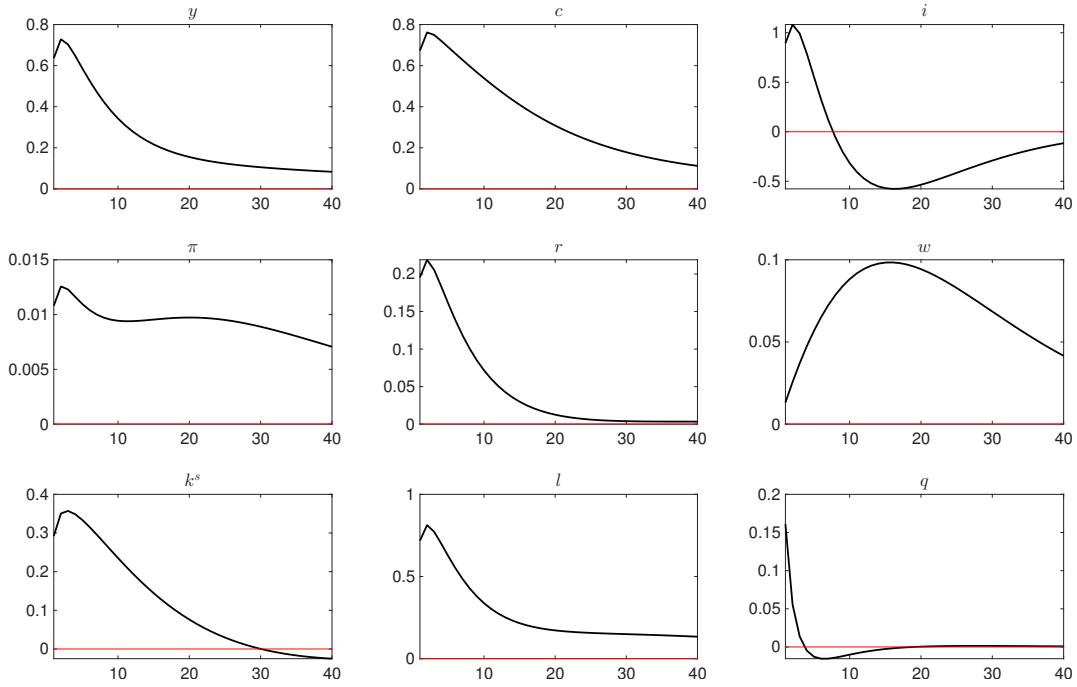


Figure 9: Impulse response functions (orthogonalized shock to  $\eta^b$ ).

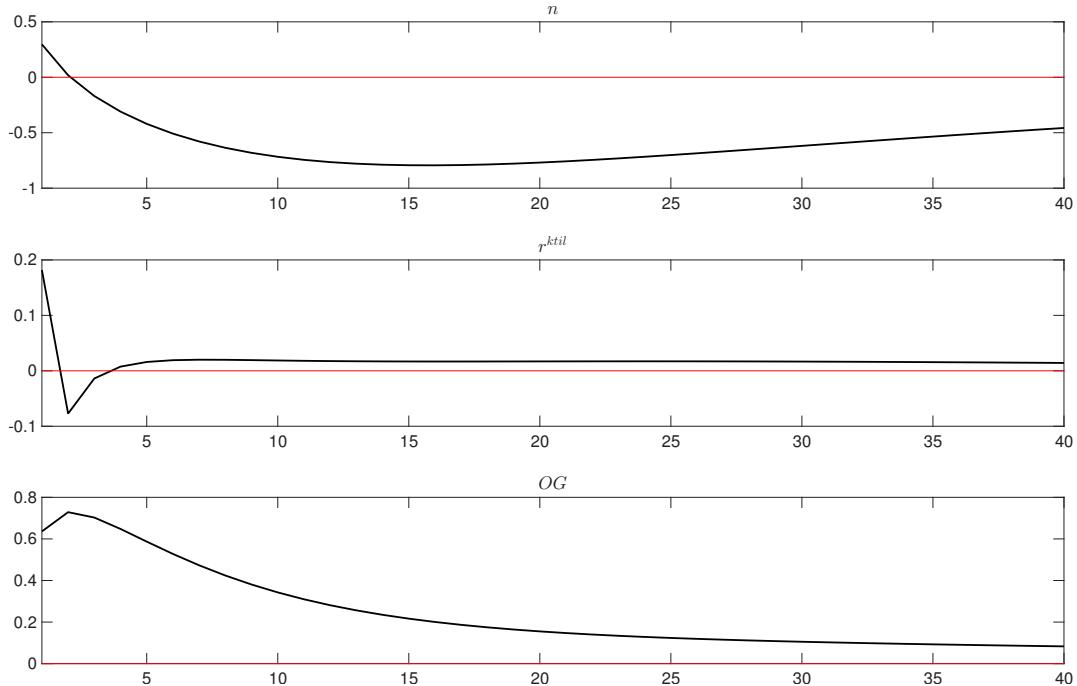


Figure 10: Impulse response functions (orthogonalized shock to  $\eta^b$ ).

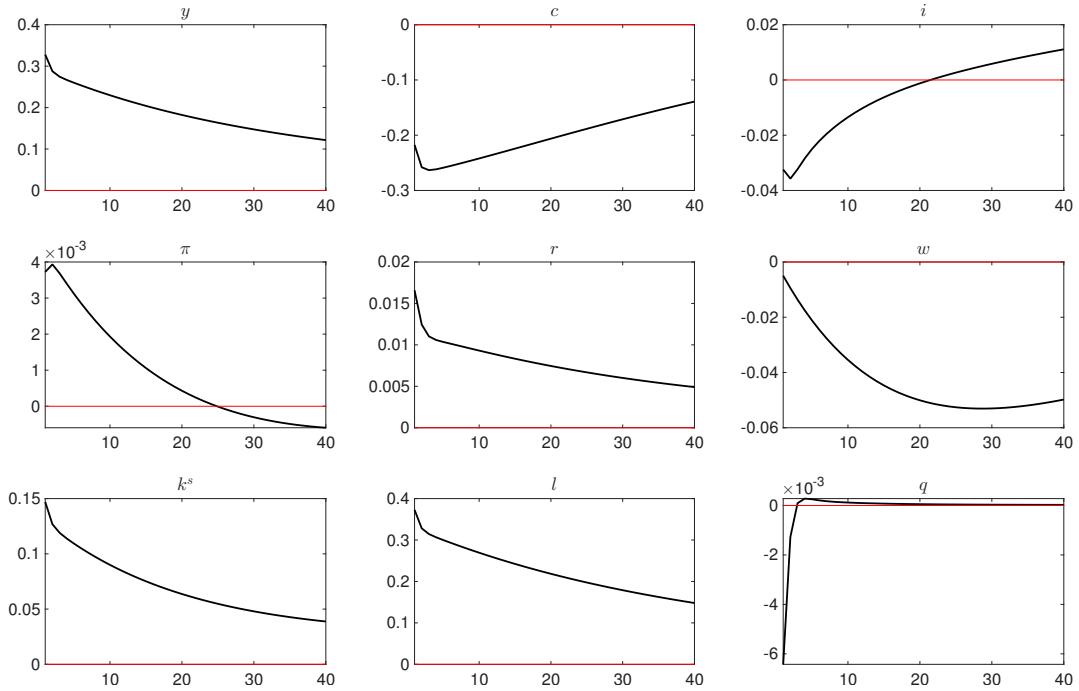


Figure 11: Impulse response functions (orthogonalized shock to  $\eta^g$ ).

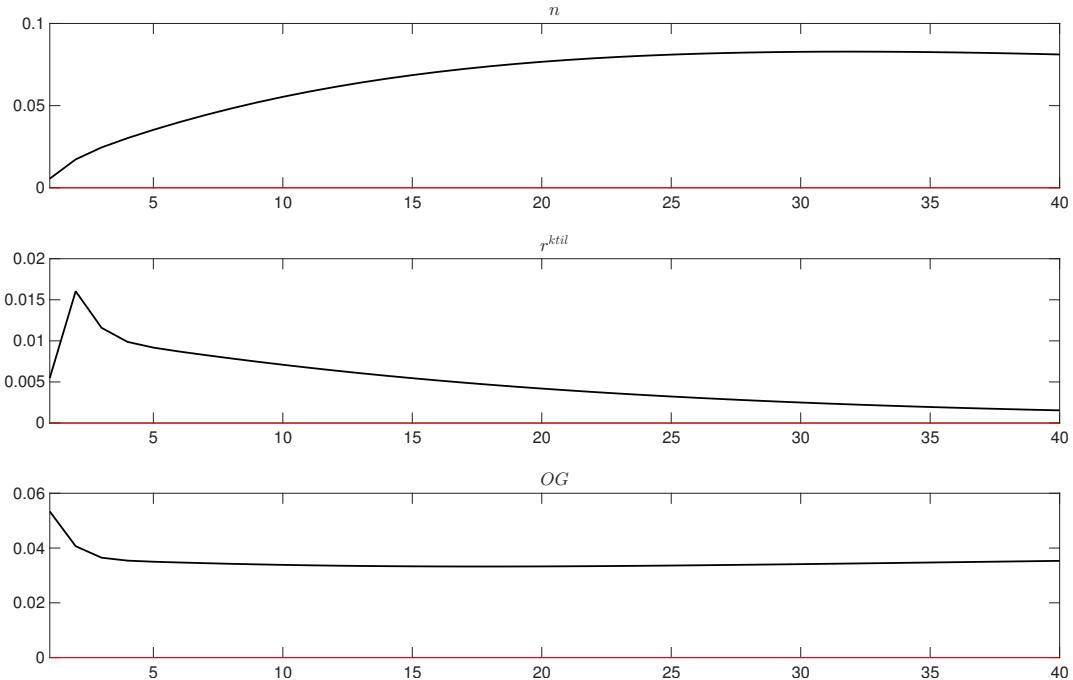


Figure 12: Impulse response functions (orthogonalized shock to  $\eta^g$ ).

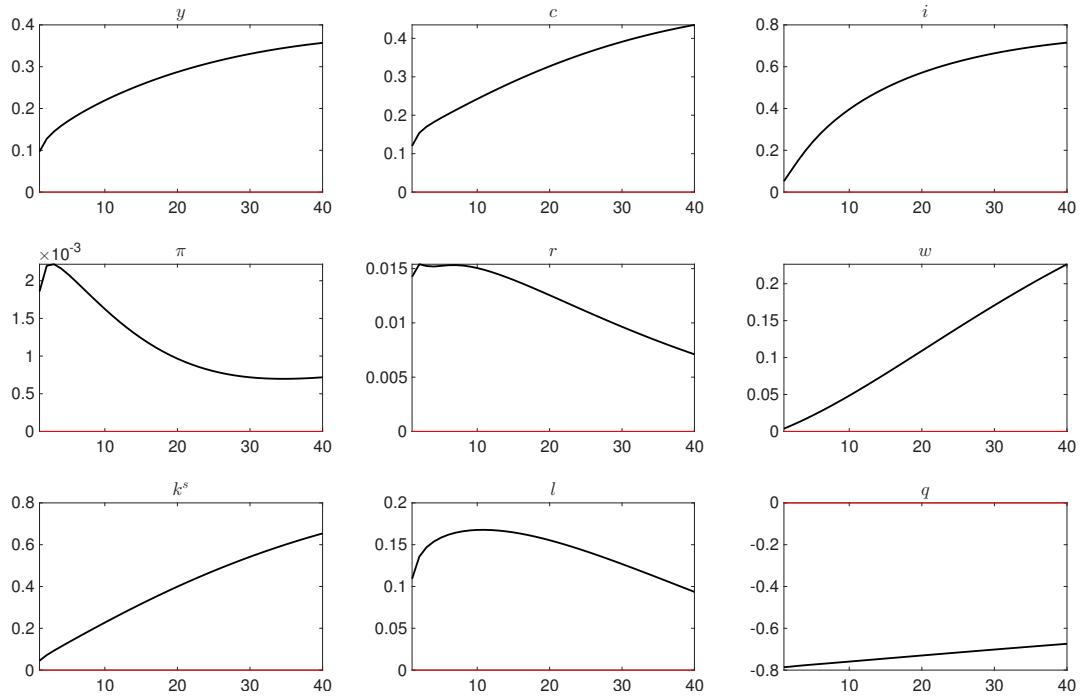


Figure 13: Impulse response functions (orthogonalized shock to  $\eta^i$ ).

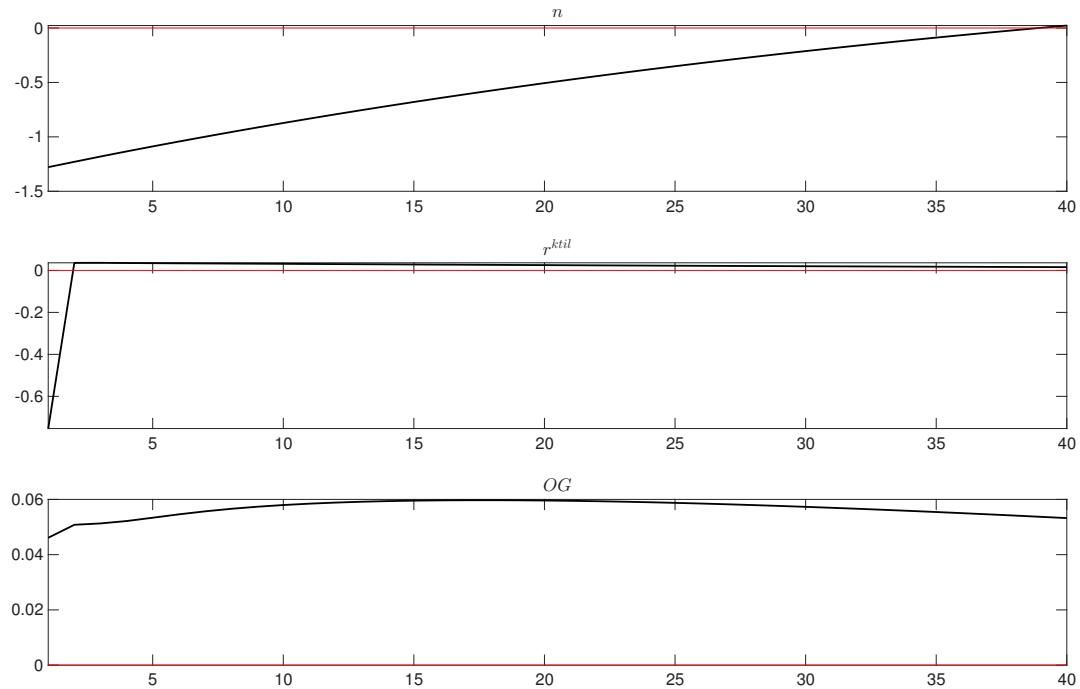


Figure 14: Impulse response functions (orthogonalized shock to  $\eta^i$ ).

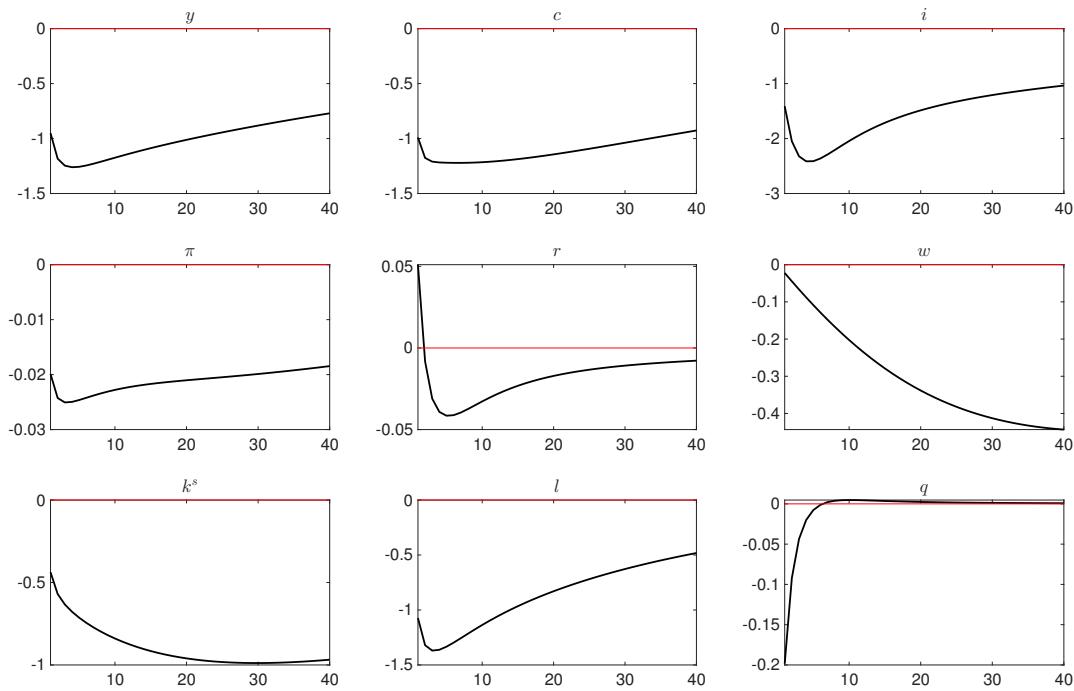


Figure 15: Impulse response functions (orthogonalized shock to  $\eta^m$ ).

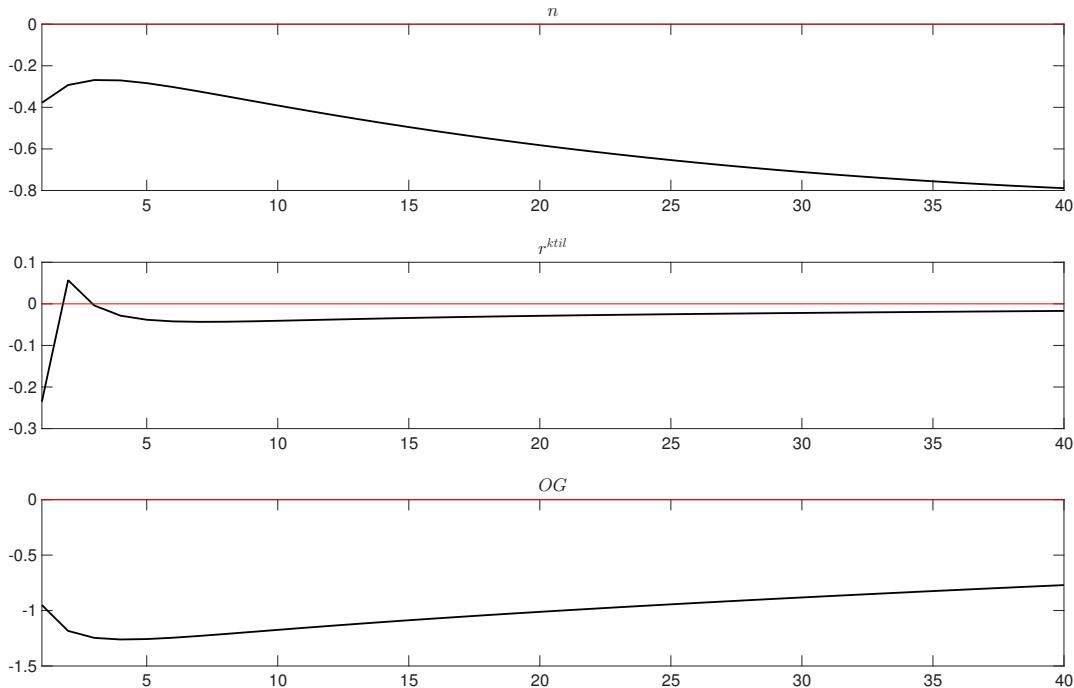


Figure 16: Impulse response functions (orthogonalized shock to  $\eta^m$ ).

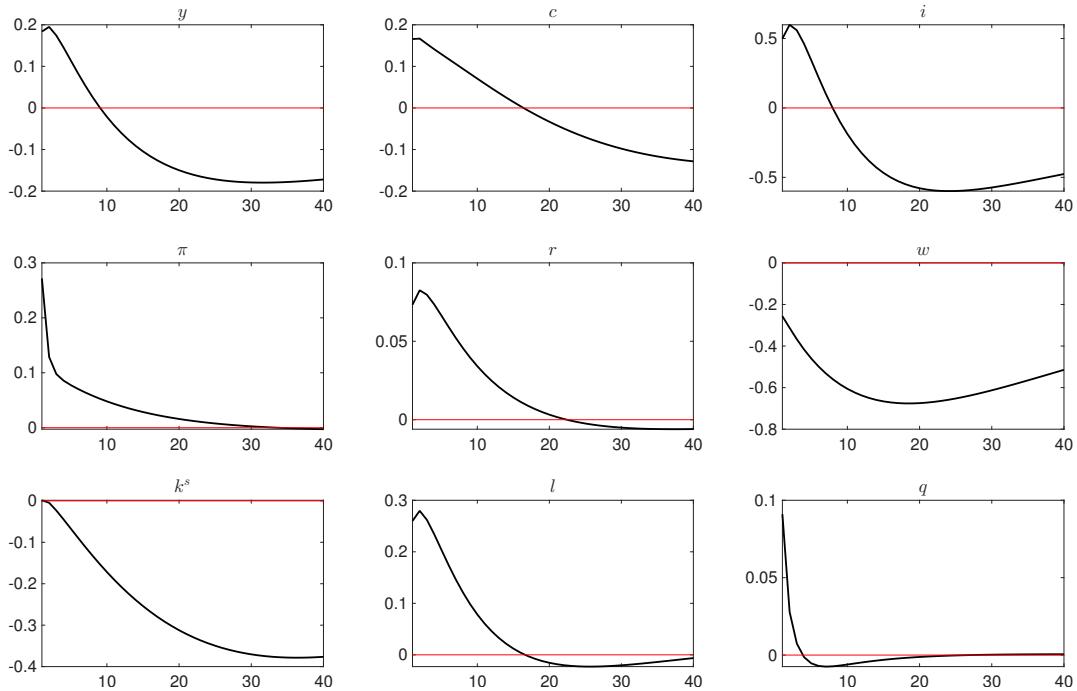


Figure 17: Impulse response functions (orthogonalized shock to  $\eta^p$ ).

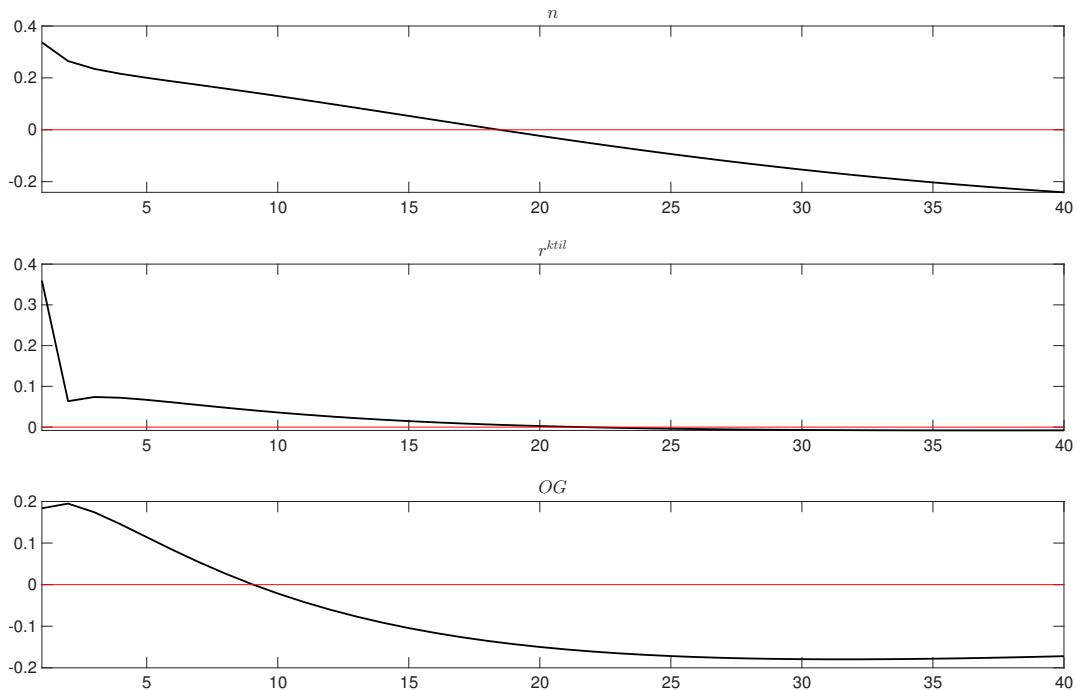


Figure 18: Impulse response functions (orthogonalized shock to  $\eta^p$ ).

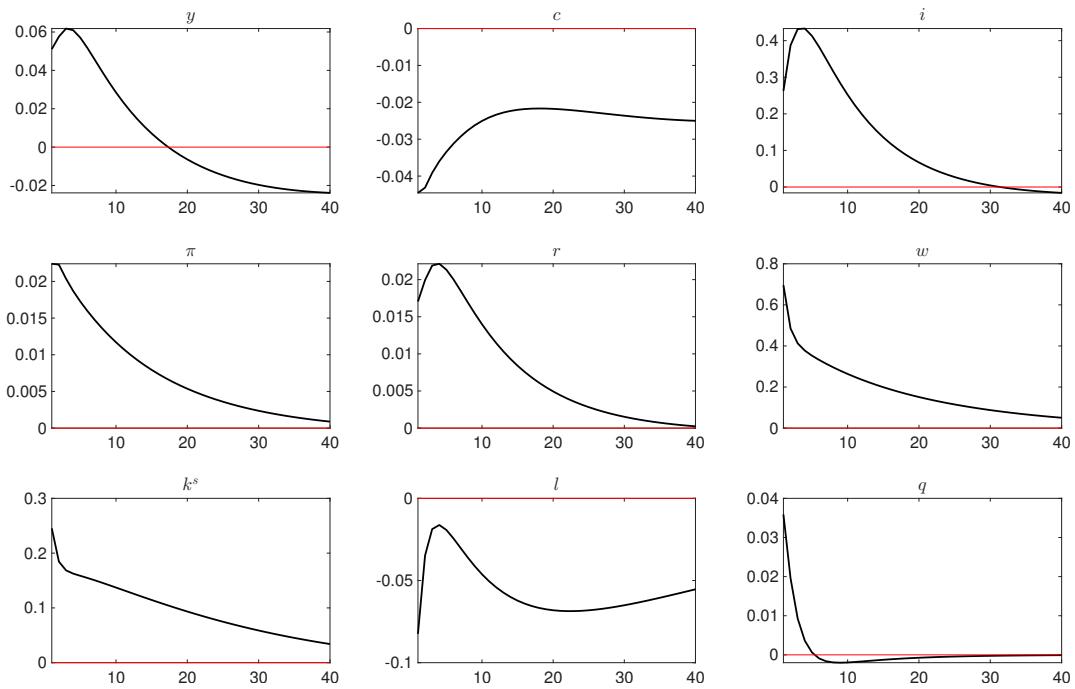


Figure 19: Impulse response functions (orthogonalized shock to  $\eta^w$ ).

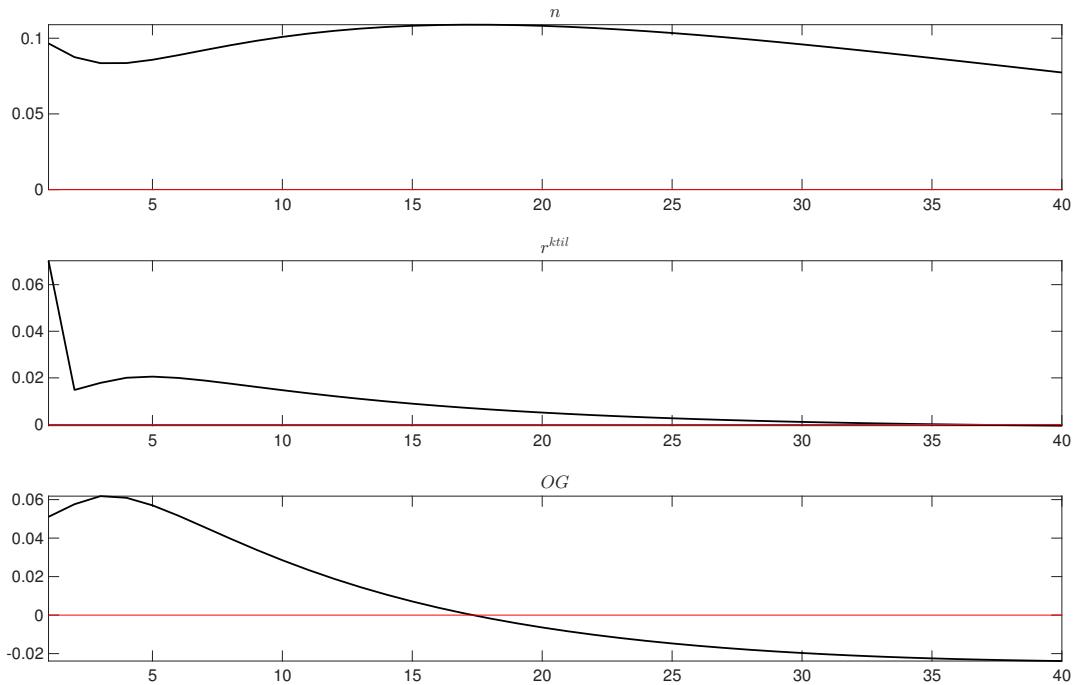


Figure 20: Impulse response functions (orthogonalized shock to  $\eta^w$ ).

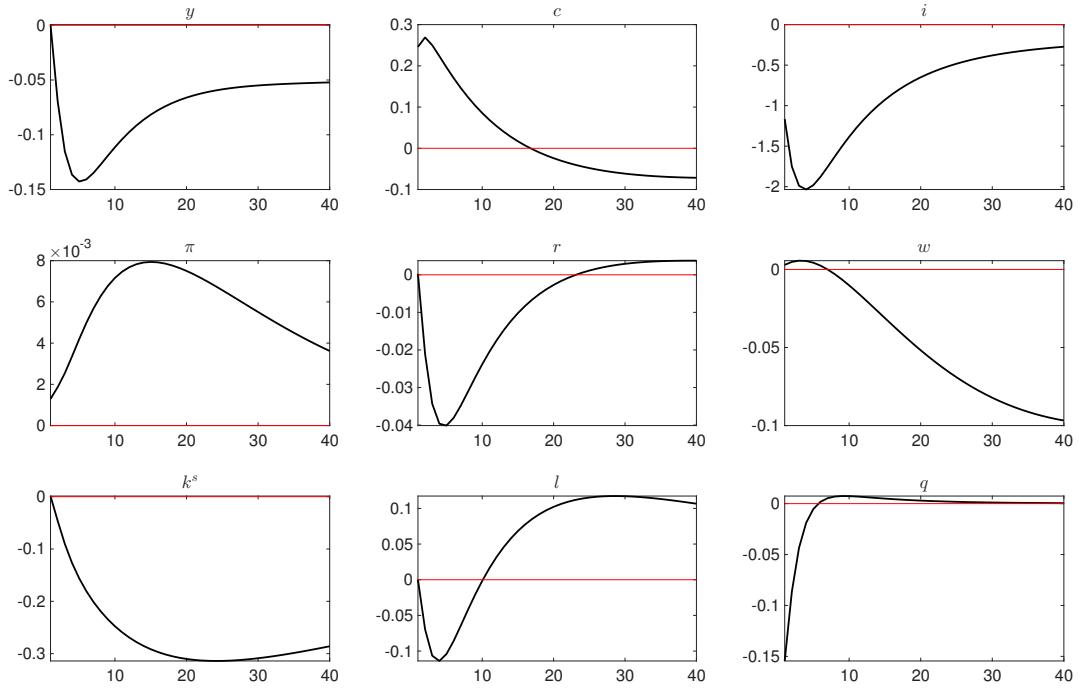


Figure 21: Impulse response functions (orthogonalized shock to  $\eta^{\sigma_w}$ ).

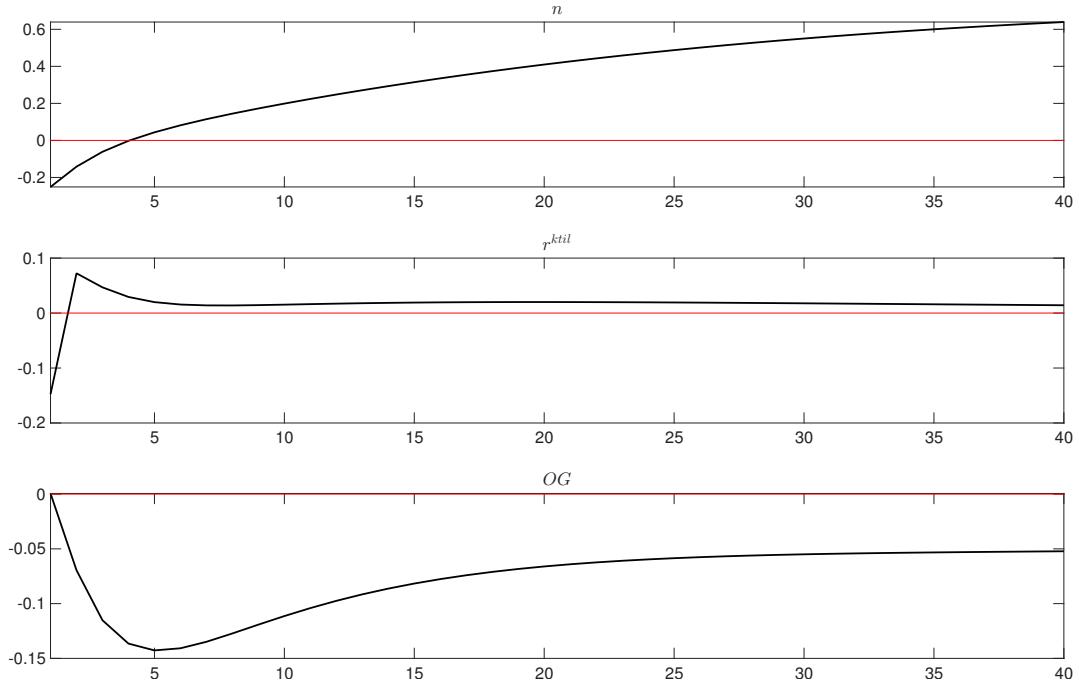


Figure 22: Impulse response functions (orthogonalized shock to  $\eta^{\sigma_w}$ ).

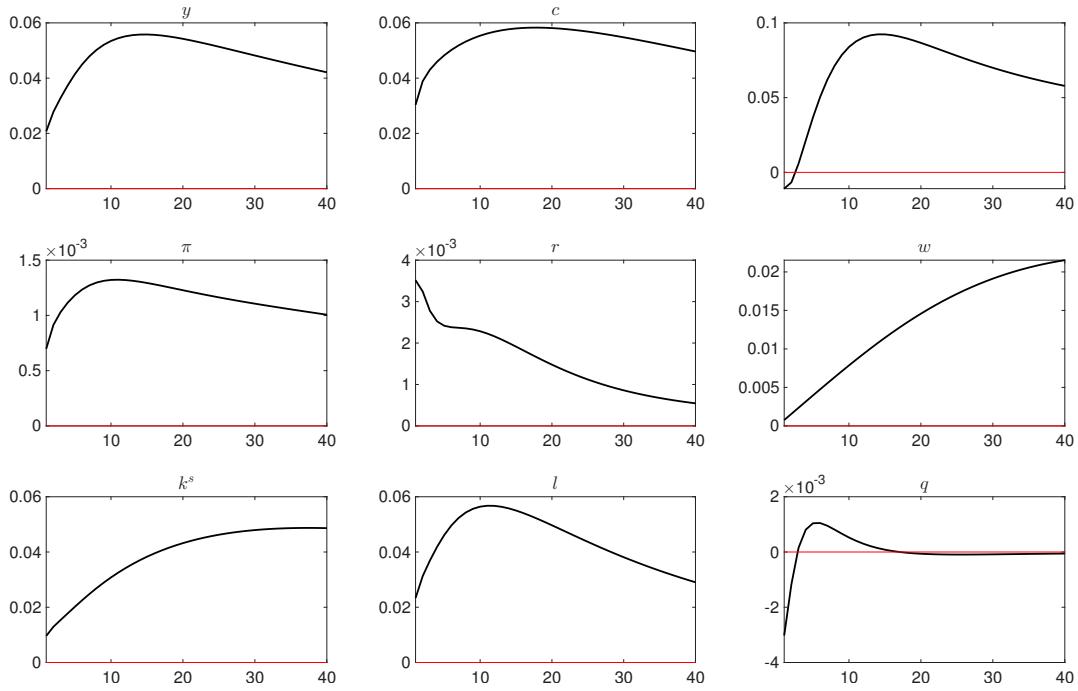


Figure 23: Impulse response functions (orthogonalized shock to  $\eta^{\pi*}$ ).

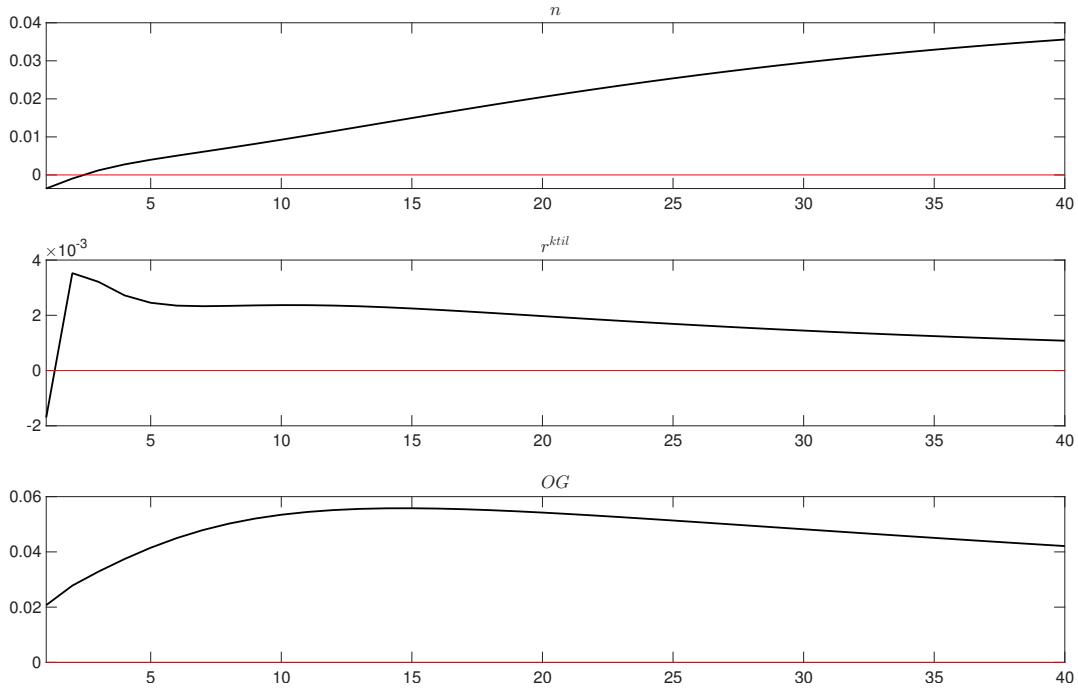


Figure 24: Impulse response functions (orthogonalized shock to  $\eta^{\pi*}$ ).

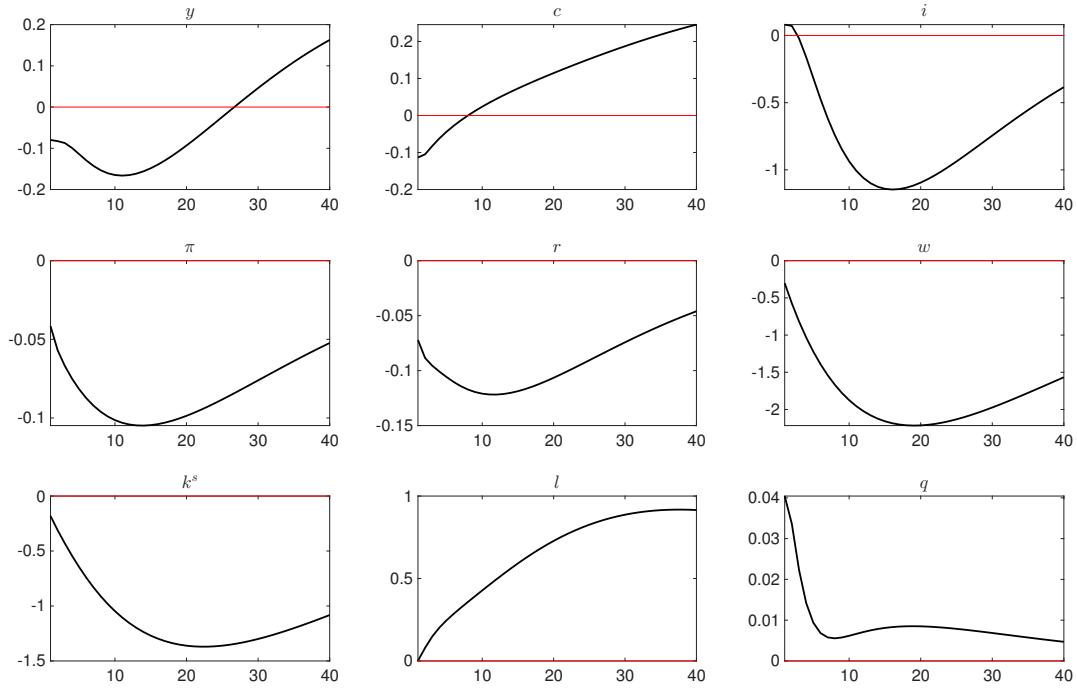


Figure 25: Impulse response functions (orthogonalized shock to  $\eta^{z_p}$ ).

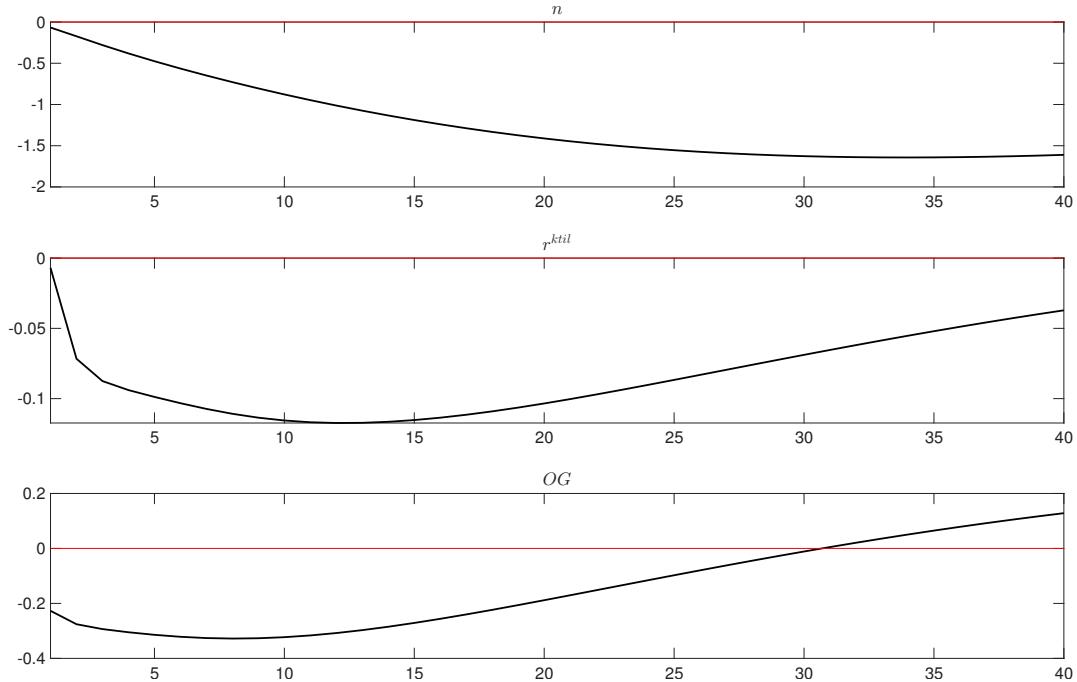


Figure 26: Impulse response functions (orthogonalized shock to  $\eta^{z_p}$ ).

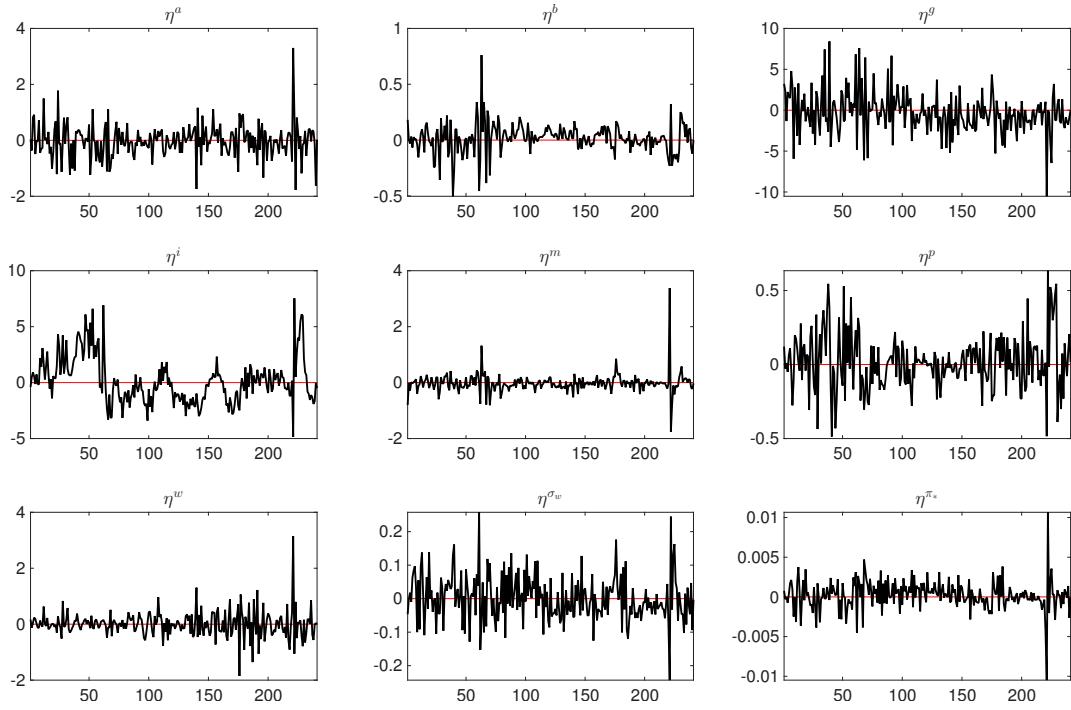


Figure 27: Smoothed shocks.

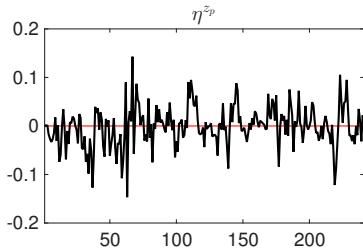


Figure 28: Smoothed shocks.