Online Appendix for: "Hours, Occupations, and Gender Differences in Labor Market Outcomes"

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F No Heterogeneity in Comparative Advantage

Table F-1: Model with No Heterogeneity in Comparative Advantage

A: Data

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.73	0.22	2.59	0.45
Linear	0.40	7.57	0.32	2.22	0.47
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.37	7.50	0.39	2.25	0.48
Linear	0.63	7.35	0.50	1.89	0.47
Aggregate	1.00	7.40	0.46	2.04	0.48

B: No heterogeneity in comparative advantage

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.83	0.12	2.55	0.44
Linear	0.40	7.37	0.15	2.30	0.45
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.26	7.80	0.10	2.59	0.44
Linear	0.75	7.17	0.31	2.29	0.46
Aggregate	1.00	7.37	0.40	2.38	0.47

Table F-2: No Het. in CA and Occupational Taste Shocks: Var 0.01, 0.02, and 0.04

A: Variance of occupational taste shock 0.01

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.77	0.20	2.52	0.46
Linear	0.40	7.50	0.25	2.35	0.45
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.40	7.59	0.39	2.43	0.53
Linear	0.60	7.22	0.37	2.32	0.45
Aggregate	1.00	7.38	0.42	2.37	0.49

B: Variance of occupational taste shock 0.02

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.75	0.21	2.52	0.46
Linear	0.40	7.53	0.26	2.36	0.44
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.44	7.55	0.40	2.41	0.53
Linear	0.56	7.23	0.38	2.32	0.45
Aggregate	1.00	7.38	0.42	2.36	0.49

C: Variance of occupational taste shock 0.04

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.74	0.22	2.52	0.46
Linear	0.40	7.55	0.26	2.36	0.44
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.47	7.52	0.41	2.40	0.53
Linear	0.53	7.25	0.39	2.32	0.45
Aggregate	1.00	7.39	0.42	2.36	0.49

Table F-3: Calibration of Economies with No Heterogeneity in Comparative Advantage

Parameters	No taste shock	$\sigma^2_{occ} = .01$	$\sigma^2_{occ} = .02$	$\sigma^2_{occ} = .04$	Targets	No taste shock	$\sigma^2_{occ} = .01$	$\sigma^2_{occ} = .02$	$\sigma^2_{occ} = .04$	Data
$log(a_2/a_1)$	-0.0016	-0.0175	-0.0304	-0.0472	E_m^{NL}	0.60	0.60	0.60	0.60	0.60
σ_a^2	0.1965	0.1933	0.1920	0.1907	$sd(\ln w_m)$	0.46	0.46	0.46	0.46	0.45
μ_ϕ	0.4271	0.4395	0.4453	0.4514	$\ln \overline{h_m}$	7.67	7.67	7.67	7.67	7.67
σ_ϕ^2	0.8438	0.9142	0.9305	0.9445	$sd(\ln h_m)$	0.26	0.26	0.26	0.26	0.26
ρ_{a_m,a_f}	0.5264	0.5720	0.5759	0.5791	gender corr. of log wages	0.43	0.43	0.43	0.43	0.43
ρ_{ϕ_m,ϕ_f}	0.5071	0.4872	0.4871	0.4882	gender corr. of log hours	0.02	0.02	0.02	0.02	0.02

Notes: The table shows the calibration results for economies with a fixed skill ratio a_2/a_1. The first column corresponds to an economy with no tastes shocks. The other economies are calibrated assuming a mean zero occupational-specific taste shock. The variance varies across economies(from 0.01 to 0.04). The calibration minimizes the sum of the square deviations between the model statistics and the the targets listed above.

G Occupational Taste Shocks in the Baseline Model

Table G-1: Baseline Model with Occupational Taste Shock

A: Data

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.73	0.22	2.59	0.45
Linear	0.40	7.57	0.32	2.22	0.47
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.37	7.50	0.39	2.25	0.48
Linear	0.63	7.35	0.50	1.89	0.47
Aggregate	1.00	7.40	0.46	2.04	0.48

B: Variance of occupational taste shock 0.01

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.61	7.71	0.24	2.58	0.49
Linear	0.39	7.59	0.28	2.23	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.52	7.48	0.40	2.48	0.55
Linear	0.48	7.24	0.47	2.12	0.45
Aggregate	1.00	7.38	0.45	2.32	0.53

Table G-2: Baseline Model with Occupational Taste Shock: var 0.02 and var 0.04

A: Variance of occupational taste shock 0.02

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.62	7.71	0.24	2.58	0.50
Linear	0.38	7.59	0.28	2.23	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.53	7.48	0.41	2.47	0.56
Linear	0.47	7.24	0.47	2.11	0.45
Aggregate	1.00	7.38	0.46	2.32	0.53

B: Variance of occupational taste shock 0.04

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.62	7.71	0.24	2.58	0.50
Linear	0.38	7.59	0.28	2.23	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.54	7.48	0.41	2.45	0.57
Linear	0.46	7.25	0.47	2.11	0.45
Aggregate	1.00	7.38	0.46	2.31	0.54

Table G-3: Role of Occupational Taste Shocks

	Baseline	$\sigma^2_{occ} = .01$	$\sigma^2_{occ} = .02$	$\sigma^2_{occ} = .04$
Gender Gap				
Wage	0.121	0.135	0.142	0.152
Wage NL	0.082	0.103	0.114	0.130
Wage L	0.103	0.107	0.112	0.116
Hours	0.286	0.290	0.291	0.293
Share Emp NL	0.090	0.089	0.085	0.081
Occupational Gap (NL minus L)				
Mean hours males	0.116	0.122	0.123	0.122
Mean hours females	0.241	0.241	0.238	0.231
Std dev hours males	-0.039	-0.043	-0.046	-0.045
Std dev hours females	-0.084	-0.065	-0.059	-0.056
Wage males	0.358	0.357	0.354	0.352
Wage females	0.379	0.362	0.352	0.338

Notes: The table compare statistics across model economies *with* heterogeneity in comparative advantage. The first column corresponds to the baseline economy and the rest of the columns correspond to (recalibrated model economies) assuming the presence of occupation-specific taste shocks with variances equal to 0.01, 0.02, and 0.04.

Table G-4: Calibration of Economies with Occupational Taste Shocks

Parameters	Baseline	$\sigma^2_{occ} = .01$	$\sigma^2_{occ} = .02$	$\sigma^2_{occ} = .04$	Targets	Baseline	$\sigma^2_{occ} = .01$	$\sigma^2_{occ} = .02$	$\sigma^2_{occ} = .04$	Data
μ_{a_2}	-0.1758	-0.1914	-0.2090	-0.2212	E_m^{NL}	0.61	0.61	0.62	0.62	0.60
$\sigma^2_{a_1}$	0.3290	0.3244	0.3140	0.3015	$sd(\ln w_{m,NL})$	0.49	0.49	0.50	0.50	0.45
$\sigma^2_{a_2}$	0.1877	0.1872	0.1862	0.1821	$sd(\ln w_{m,L})$	0.42	0.42	0.42	0.42	0.45
μ_ϕ	0.4589	4874	0.4898	0.4859	$\ln \overline{h_m}$	7.67	7.67	7.67	7.67	7.67
σ^2_ϕ	0.9429	0.98262	0.9888	0.9840	$sd(\ln h_m)$	0.26	0.26	0.26	0.26	0.26
ρ_{a_1,a_2}	0.3114	0.2532	0.2221	0.1848	$\ln \overline{w_{m,NL}} - \ln \overline{w_{m,L}}$	0.36	0.36	0.35	0.35	0.37
ρ_{a_m,a_f}	0.6886	0.7468	0.7770	0.8119	gender corr. of log wages	0.43	0.43	0.43	0.43	0.43
ρ_{ϕ_m,ϕ_f}	0.5056	0.5147	0.5231	0.5280	gender corr. of log hours	0.02	0.02	0.02	0.02	0.02

Notes: The table shows the calibration results for the baseline model with taste shocks. The first column corresponds to the baseline economy with no tastes shocks. The other economies are calibrated assuming a mean zero occupational-specific taste shock. The variance varies across economies(from 0.01 to 0.04). The calibration minimizes the sum of the square deviations between the model statistics and the the targets listed above.

H Sensitivity with Respect to θ

Table H-1: Baseline Economy.

A: Data

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.73	0.22	2.59	0.45
Linear	0.40	7.57	0.32	2.22	0.47
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.37	7.50	0.39	2.25	0.48
Linear	0.63	7.35	0.50	1.89	0.47
Aggregate	1.00	7.40	0.46	2.04	0.48

B: Baseline: $\theta_1 = 0.6$, $\theta_2 = 0.2$

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.61	7.71	0.23	2.58	0.49
Linear	0.39	7.60	0.27	2.23	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.52	7.49	0.37	2.50	0.51
Linear	0.48	7.25	0.46	2.12	0.44
Aggregate	1.00	7.38	0.44	2.34	0.51

Table H-2: Economies with $(\theta_1, \theta_2) = (0.5, 0.2)$ and $(\theta_1, \theta_2) = (0.7, 0.2)$

A: $\theta_1 = 0.5$, $\theta_2 = 0.2$

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.61	7.70	0.24	2.59	0.49
Linear	0.39	7.61	0.27	2.23	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.54	7.47	0.38	2.51	0.51
Linear	0.46	7.29	0.44	2.14	0.44
Aggregate	1.00	7.39	0.43	2.36	0.50

B: $\theta_1 = 0.7$, $\theta_2 = 0.2$

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.72	0.23	2.59	0.49
Linear	0.40	7.59	0.28	2.23	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.49	7.52	0.36	2.51	0.51
Linear	0.51	7.22	0.47	2.11	0.45
Aggregate	1.00	7.38	0.46	2.32	0.51

Table H-3: Economy with $(\theta_1, \theta_2) = (0.6, 0)$

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.61	7.74	0.22	2.58	0.49
Linear	0.39	7.56	0.28	2.23	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.48	7.55	0.33	2.54	0.49
Linear	0.52	7.20	0.44	2.18	0.43
Aggregate	1.00	7.38	0.44	2.37	0.49

Table H-4: Calibration of Economies Differing on (θ_1, θ_2)

Parameters	$\theta_1 = 0.6$	$\theta_1 = 0.5$	$\theta_1 = 0.7$	$\theta_1 = 0.6$ $\theta_2 = 0$	Targets	$\theta_1 = 0.6$	$\theta = 0.5$	$\theta = 0.7$	$\theta = 0.6$ $\theta_2 = 0$	Data
μ_{a_2}	-0.1758	-0.1626	-0.1662	-0.1748	E_m^{NL}	0.61	0.61	0.61	0.61	0.60
$\sigma^2_{a_1}$	0.3290	0.3387	0.3267	0.3272	$sd(\ln w_{m,NL})$	0.49	0.49	0.49	0.49	0.45
$\sigma^2_{a_2}$	0.1877	0.1833	0.1899	0.1939	$sd(\ln w_{m,L})$	0.42	0.42	0.42	0.42	0.47
μ_ϕ	0.4589	0.4854	0.4233	0.3817	$\ln \overline{h_m}$	7.67	7.67	7.67	7.67	7.67
σ^2_ϕ	0.9429	0.9510	0.9636	0.9155	$sd(\ln h_m)$	0.26	0.26	0.26	0.26	0.26
ρ_{a_1,a_2}	0.3114	0.3392	0.2813	0.3382	$\ln \overline{w_{m,NL}} - \ln \overline{w_{m,L}}$	0.36	0.36	0.36	0.36	0.37
ρ_{a_m,a_f}	0.6886	0.6606	0.7185	0.6618	gender corr. of log wages	0.43	0.43	0.43	0.42	0.43
ρ_{ϕ_m,ϕ_f}	0.5056	0.4936	0.5146	0.4937	gender corr. of log hours	0.02	0.02	0.02	0.02	0.02

Notes: The table shows the calibration results for economies that vary in the mapping from hours of work to labor services across occupations. The first column corresponds to the baseline model. The calibration minimizes the sum of the square deviations between the model statistics and the the targets listed above.

I Sensitivity with Respect to $\bar{h}$

Table I-1: Economies with $\bar{h} = 2400$ and $\bar{h} = 2600$

A: $\bar{h} = 2400$

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.61	7.71	0.24	2.58	0.49
Linear	0.39	7.60	0.28	2.22	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.53	7.50	0.37	2.51	0.51
Linear	0.47	7.26	0.47	2.12	0.44
Aggregate	1.00	7.39	0.45	2.35	0.51

B: $\bar{h} = 2600$

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.62	7.71	0.24	2.58	0.49
Linear	0.38	7.59	0.27	2.22	0.42
Aggregate	1.00	7.67	0.26	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.52	7.48	0.38	2.49	0.51
Linear	0.48	7.23	0.47	2.11	0.44
Aggregate	1.00	7.37	0.45	2.33	0.51

Table I-2: Calibration of Economies Differing on $\bar{h}$

Parameters	$\bar{h} = 2500$	$\bar{h} = 2400$	$\bar{h} = 2600$	Targets	Data	$\bar{h} = 2500$	$\bar{h} = 2400$	$\bar{h} = 2600$
μ_{a_2}	-0.1758	-0.1786	-0.1848	E_m^{NL}	0.60	0.61	0.61	0.62
$\sigma^2_{a_1}$	0.3290	0.3345	0.3222	$sd(\ln w_{m,NL})$	0.45	0.49	0.49	0.49
$\sigma^2_{a_2}$	0.1877	0.1870	0.1872	$sd(\ln w_{m,L})$	0.47	0.42	0.42	0.42
μ_ϕ	0.4589	0.4317	0.5004	$\ln \overline{h_m}$	7.67	7.67	7.67	7.67
σ^2_ϕ	0.9429	1.0080	0.9588	$sd(\ln h_m)$	0.26	0.26	0.26	0.26
ρ_{a_1,a_2}	0.3114	0.3176	0.3063	$\ln \overline{w_{m,NL}} - \ln \overline{w_{m,L}}$	0.37	0.36	0.36	0.36
ρ_{a_m,a_f}	0.6886	0.6824	0.6936	gender corr. of log wages	0.43	0.42	0.43	0.42
ρ_{ϕ_m,ϕ_f}	0.5056	0.4860	0.5144	gender corr. of log hours	0.02	0.02	0.02	0.02

Notes: The table shows the calibration results for economies that vary in $\overline{h}$. The first column corresponds to the baseline model. The calibration minimizes the sum of the square deviations between the model statistics and the the targets listed above.

J No Heterogeneity in Taste for Work: ($\sigma_\phi = 0$)

Table J-1: Calibration of Economy with no Heterogeneity in Taste for Work ($\sigma_\phi = 0$)

Parameter	Value	Target	Data	Model
μ_{a_2}	-0.1545	E_m^{NL}	0.60	0.61
$\sigma^2_{a_1}$	0.3322	$sd(\ln w_{m,NL})$	0.45	0.50
$\sigma^2_{a_2}$	0.1923	$sd(\ln w_{m,L})$	0.47	0.42
μ_ϕ	0.4733	$\ln \overline{h_m}$	7.67	7.67
ρ_{a_1,a_2}	0.3161	$\ln \overline{w_{m,NL}} - \ln \overline{w_{m,L}}$	0.37	0.35
ρ_{a_m,a_f}	0.6831	gender corr. of log wages	0.43	0.43

Notes: The table shows the calibration results for an economy with no heterogeneity in taste for work ($\sigma_\phi = 0$). The mapping from hours to labor services is kept as in the baseline economy ($\theta_1 = 0.6$, $\theta_2 = 0.2$, $\bar{h} = 2500$). The calibration minimizes the sum of the square deviations between the model statistics and the the targets listed above. Unlike the baseline economy, the correlation of log hours of husbands and wives is not targeted. It is -0.75 relative to 0.02 in the model and in the data

Table J-2: Economy with no Heterogeneity in Disutility of Labor ($\sigma_\phi = 0$)

A: Data

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.73	0.22	2.59	0.45
Linear	0.40	7.57	0.32	2.22	0.47
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.37	7.50	0.39	2.25	0.48
Linear	0.63	7.35	0.50	1.89	0.47
Aggregate	1.00	7.40	0.46	2.04	0.48

B: No Heterogeneity: $\sigma_\phi = 0$, $\theta_1 = 0.6$, $\theta_2 = 0.2$

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.61	7.71	0.08	2.58	0.50
Linear	0.39	7.61	0.07	2.23	**0.42**
Aggregate	1.00	7.67	0.09	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.52	7.38	0.16	2.45	0.50
Linear	0.48	7.27	0.14	2.13	0.43
Aggregate	1.00	7.33	0.16	2.31	0.49

K Home Production of Males: $T_m = 700$

Table K-1: Economy with $T_m = 700$ and $T_f = 1200$.

A: Data

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.60	7.73	0.22	2.59	0.45
Linear	0.40	7.57	0.32	2.22	0.47
Aggregate	1.00	7.67	0.26	2.46	0.46

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.37	7.50	0.39	2.25	0.48
Linear	0.63	7.35	0.50	1.89	0.47
Aggregate	1.00	7.40	0.46	2.04	0.48

B: Economy with $T_m = 700$ and $T_f = 1200$

Males

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.62	7.71	0.23	2.58	0.49
Linear	0.38	7.59	0.27	2.23	0.42
Aggregate	1.00	7.67	0.25	2.46	0.49

Females

	Emp. share	Log mean hours	Std log hours	Log mean wages	Std log wages
Non-Linear	0.52	7.49	0.35	2.50	0.50
Linear	0.48	7.25	0.49	2.12	0.45
Aggregate	1.00	7.38	0.45	2.34	0.51

Table K-2: Calibration of Economy with $T_m = 700, T_f = 1200$

Parameters	Baseline	$T_m = 700$	Targets	Data	Baseline	$T_m = 700$
μ_{a_2}	-0.1758	-0.1775	E_m^{NL}	0.60	0.61	0.62
$\sigma^2_{a_1}$	0.3290	0.3252	$sd(\ln w_{m,NL})$	0.45	0.49	0.49
$\sigma^2_{a_2}$	0.1877	0.1885	$sd(\ln w_{m,L})$	0.47	0.42	0.42
μ_ϕ	0.4589	0.4394	$\ln \overline{h_m}$	7.67	7.67	7.67
σ^2_ϕ	0.9429	0.8699	$sd(\ln h_m)$	0.26	0.26	0.25
ρ_{a_1,a_2}	0.3114	0.3132	$\ln \overline{w_{m,NL}} - \ln \overline{w_{m,L}}$	0.37	0.36	0.36
ρ_{a_m,a_f}	0.6886	0.6868	gender corr. of log wages	0.43	0.43	0.43
ρ_{ϕ_m,ϕ_f}	0.5056	0.5241	gender corr. of log hours	0.02	0.02	0.02

Notes: The table shows the calibration results for the baseline economy ($T_m = 0, T_f = 500, \gamma = 3$) and the calibration results of an economy with $T_m = 700, T_f = 1200, \gamma = 4$). The two economies feature the same labor supply elasticity of males when hours of work equal 2100. The calibration minimizes the sum of the square deviations between the model statistics and the the targets listed above.

Table K-3: Effects of Recalibrating T_m on Model Statistics

	Baseline	$T_m = 700$
Gender Gap		
Wage	0.121	0.121
Wage NL	0.082	0.080
Wage L	0.103	0.104
Hours	0.286	0.286
Share Emp NL	0.090	0.093
Occupational Gap (NL minus L)		
Mean hours males	0.116	0.118
Mean hours females	0.241	0.247
Std dev hours males	-0.039	-0.049
Std dev hours females	-0.084	-0.132
Wage males	0.358	0.356
Wage females	0.379	0.380

Notes: The table compares statistics between the baseline and a recalibrated economy with $T_m = 700, T_f = 1200$.