General Equilibrium Incidence of the Earned Income Tax Credit

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NTA: Labor Supply Session

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Motivation	EITC		

The Earned Income Tax Credit is a massive subsidy to labor:

- \$67 billion in disbursements to 27 million workers (IRS 2017)
 - $\bullet~97\%$ of credit dollars to workers with children
 - $\bullet~\sim 20\%$ of total labor force
 - $\bullet~\sim 25\%$ of women in labor force
 - $\bullet~\sim 40\%$ single parent families eligible
 - $\bullet~\sim 40\%$ HS Dropout families eligible
 - $\bullet~\sim7\%$ college educated families eligible

Prior Literature

All prior EITC literature is either Partial Equilibrium or GE with the assumption of fixed wages. Prior Lit

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Why is this	s Importar	nt?			

Policy-makers need to know...

- what the right multiplier is
- why EITC works and why it might fail
- I what alternative policies do relative to EITC

This paper helps on all three accounts.

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Research	Questions		

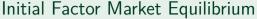
Theory:

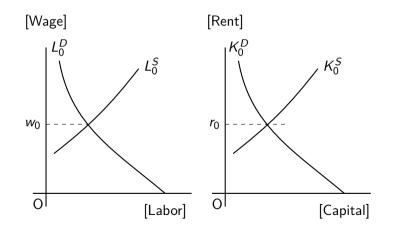
• What is the GE incidence of heterogeneous factor supply subsidies?

Application:

- What was the GE incidence of 1993 EITC expansion?
 - For each dollar spent, net-earnings increased by \$0.93
 - $\bullet\,$ For each dollar spent, the equivalent variation was 0.72
- How do EITC and NIT incidence differ?
 - For each dollar spent, EITC increased net-earings by \$1.28, NIT by \$0.63
 - $\bullet\,$ For each dollar spent, EV for EITC was \$0.93, for NIT \$1.08

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Initial Faster Market Fauilibrium						

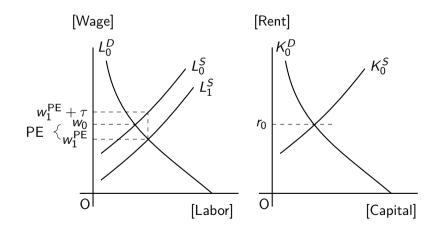




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Incidence Visualization: Partial Equilibrium

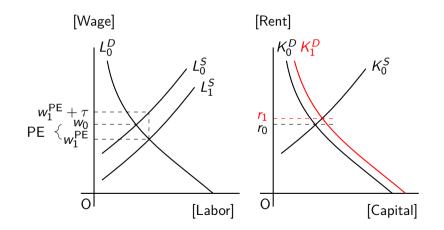


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Incidence Visualization: Capital Response

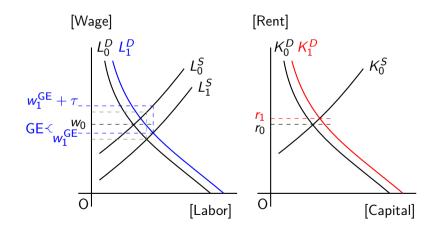


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Incidence Visualization: General Equilibrium





- Environment: perfect competition, full information, static
- Workers: binary choice to work or not, consume net income Quasi-linear in consumption, 2 skills groups with own labor elasticity $U^i(c, \ell) = c + v^i(1-\ell), i \in \{1, 2\}$
- **Firms**: heterogeneous entry costs; if enter, then hire labor Nested CES Production technology produces homogeneous output $Q_{j} = A_{j} \left[\left(\vartheta_{1} (L_{1}^{D})^{\frac{1+\rho}{\rho}} + \vartheta_{2} (L_{2}^{D})^{\frac{1+\rho}{\rho}} \right)^{\frac{\rho}{1+\rho}} \right]^{\alpha} K_{j}^{1-\alpha}$
- Gov't: choose subsidies and benefits, finances with lump-sum tax

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Simple Model: Equilibrium with $\{L_1, L_2, K, \tau_1\}$

Labor Clearing
$$\frac{L_1^S(w_1 + \tau)}{L_2^S(w_2)} = \left(\frac{w_1/\vartheta_1}{w_2/\vartheta_2}\right)^{\rho}$$
(1)
Factor Clearing
$$\frac{L^S(w_1 + \tau, w_2)}{K^S(r)} = \left(\frac{\bar{w}/\alpha}{r/1 - \alpha}\right)^{-1}$$
(2)

Zero Profits
$$P = c(w_1, w_2, r) := 1$$
 (3)

where
$$ar{w} = \left(\vartheta_1 \left(rac{w_1}{\vartheta_1}
ight)^{1+
ho} + \vartheta_2 \left(rac{w_2}{\vartheta_2}
ight)^{1+
ho}
ight)^{rac{1}{1+
ho}}$$

For GE incidence, I take total derivative of the system: 3 equations, 3 unknowns (dw_1, dw_2, dr) Introduction Theory Conclusion 0000 Counterfactual Policy Conclusion 0000 Contestinates Counterfactual Policy Conclusion 000 Conclusion 0000 Conclusion 000 Conclusion 000

Simple Model: Incidence with $\{L_1, L_2, K, \tau_1\}$

Partial Equilibrium Incidence; holding w_2, L_2, r, K fixed

$$\frac{\hat{w}_1^{\mathsf{PE}}}{\hat{\tau}} = \left(\frac{-\varepsilon_1^{\mathsf{S}}}{\varepsilon_1^{\mathsf{S}} - \rho}\right) < 0$$

General Equilibrium Incidence

$$\begin{aligned} \frac{\hat{w}_{1}^{\mathsf{GE}}}{\hat{\tau}} &= \left(\frac{\hat{w}_{1}^{\mathsf{PE}}}{\hat{\tau}} + \frac{\left(\frac{s_{1}}{\varepsilon_{1}-\rho}\right)\left(\frac{\varepsilon_{1}}{\varepsilon_{1}-\rho}\right)\left(\frac{\varepsilon_{K}+1}{s_{K}} + \frac{1+\rho}{s_{L}}\right)}{\left(1 + \left(\frac{\varepsilon_{K}+1}{s_{K}} + \frac{1+\rho}{s_{L}}\right)\left(\sum_{e}\frac{s_{e}}{(\varepsilon_{e}-\rho)}\right)\right)}\right) \\ &= \left(\mathsf{PE}_{1} + \mathsf{Spillover}_{1}\right) \leq 0 \end{aligned}$$

- Note: If $s_1 = 0$, then GE = PE
- $\bullet \ |\mathsf{GE}| = |\mathsf{PE} + \mathsf{Sp}| \le |\mathsf{PE}|$

	Theory 000●			
Connect	Theory to	Data		

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Need the following parameters to quantify incidence:

- Estimated
 - Labor Supply Elasticities: {ε_{e,k}}
 for skill level e and demographic group k
 - Labor Substitution Elasticity: $\rho = \frac{d \ln[L_e^D/L_{e'}^D]}{d \ln[w_e/w_{e'}]} < 0$
- Calculated
 - Market Cost Shares: se
 - Tax Changes: $\hat{\tau}_{e,k}$
- Parameterized
 - Capital Supply Elasticity: $\varepsilon_{K} = 1$

Goolsbee (1998) short run estimate

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Elasticity E	stimates				

Tax Induced Price Changes [First Stage]

$$\hat{w}_{est} = \psi_e \hat{ au}_{est} + \Psi_e(\{\hat{ au}_{est}\}_{e'})$$

Identify Market Quantity responses [Structural Equation]

Data

Instruments

EITC Variation

$$\hat{L}_{kest} = \varepsilon_{e,k}^{S} \hat{w}_{kest}$$
(5)
 \rightarrow Identified by Tax Changes Within Skill Grops

$$\begin{bmatrix} \hat{L}_{est} - \hat{L}_{1st} \end{bmatrix} = \rho [\hat{w}_{est} - \hat{w}_{1st}]$$
(6)
 \rightarrow Identified by Relative Tax Changes Between Skill Groups

for some e' = 1 reference skill level.

(4)

Introduction 00000	Elasticity Estimates 0●0		

Labor Supply Elasticity Results

Obs	Unmarried		Ma	rried
33,902	w/o Children	w/ Children	w/o Children	w/ Children
Less HS	0.54	0.72	0.76	0.99
	(0.10)	(0.09)	(0.09)	(0.09)
HS	0.40	0.58	0.62	0.85
	(0.08)	(0.07)	(0.07)	(0.07)
Some College	0.40	0.58	0.62	0.86
	(0.09)	(0.08)	(0.08)	(0.08)
BA Plus	0.10	0.28	0.32	0.56
	(0.09)	(0.09)	(0.08)	(0.08)
Weak IV	AR-F	KP rk LM	KP rk Wald F	MOP Effective-F
Tests	38.01	104.4	57.314	23.530

All data from MORG 90-00, 1990 Census; EITC ATRs calculated using TAXSIM. Standard Errors clustered by (140) demographic groupings. Model controls: log total cell size, FEs for demographics, State-Year, and Initial-Wage-Pct-Year. Model 1 uses 10 Instruments.

	Elasticity Estimates		
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Labor Substitution Elasticity Estimates

	(1)	(2)
ρ	-2.55	-2.60
Wald SE	(0.56)	(0.50)
WIVR CI	[-3.85,-1.58]	[-3.83,-1.70]
KP rk Wald F	51.06	30.20
Anderson-Rubin F	28.39	19.33
MOP Effictive-F	51.90	20.61
# IVs	1	2
Obs	9,674	9,674

All data from MORG 90-00, 1990 Census; EITC ATRs calculated using TAXSIM. Wald Standard Errors clustered by (70) skill groupings. Weak IV Robust Cls based on Andrews (2018). Model controls: log relative total cell size, FEs for Edu-Age-Year, State-Year, and Initial-Wage-Pct-Year.

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For every dollar of New EITC spending...

Table: All Women

Dollars	("PE" (1)	GE (2)
Labor Wage Earnings	0.15 -0.37 -0.22	0.21 -0.28 -0.07
NetEarn	0.78	0.93
Equivalent Variation	0.63	0.72

Units in table are changes in dollars of earnings, LM changes summed across demographic groups. Earnings = Wage + Labor; Net Earnings = Earnings + Transfer, Equivalent Var. = Wages + Transfer. All data from 1995 March CPS, Women from Tax Units.

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Tax Refor	ms				

I follow Rothstein (2010) in simulating two equal sized tax reforms.

Transfer Programs

- EITC: Nonlinear earned income subsidy: Credit = EITC(income, kids)
- NIT: Initial benefit that is taxed away with income: Credit = max((Benefit - income*tax-rate) , 0) · 1{kids}

Tax Reform

Policy-makers wish to increase generosity of transfer program by \$100 million. Policy-makers calculate the percent change in in generosity assuming no behavoral responses.
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 Incidence Compare:
 All Women

	"P	E"	GE		
Dollars	EITC	NIT	EITC	NIT	
	(1)	(2)	(3)	(4)	
Intended	1.00	0.55	1.00	0.55	
Labor	0.32	-0.42	0.35	-0.46	
Wage	-0.12	0.15	-0.07	0.09	
Earnings	0.20	-0.26	0.28	-0.37	
NetEarn	1.20	0.73	1.28	0.63	
Equivalent Variation	0.88	1.15	0.93	1.08	

Units in table are changes in dollars of earnings, LM changes summed across demographic groups. Earnings = Wage + Labor; Net Earnings = Earnings + Transfer, Equivalent Var. = Wages + Transfer. All data from 1993 March CPS, Women from Tax Units.

			Conclusion •
Conclusion			

Take Away Results

- Spillovers matter!
 - \rightarrow Distorting labor supply effects all workers
- Policy matters!
 - \rightarrow EITC: PE significantly underestimates GE effects
 - \rightarrow NIT: PE significantly overestimates GE effects

Other Effects / Future Directions

- $\bullet\,$ Multiple Production Sectors $\rightarrow\,$ output price effects
- $\bullet\,$ net-Cost of EITC for Government \rightarrow lower taxes in model
- \bullet Alternative Reforms \rightarrow more generous if no kids
- What would expansion effect be today with greater LFP by women?

Begin Appendix

Previous Literature

EITC brings workers into labor force

Dickert, Houser & Scholz (1995); Eissa & Leibman (1996); Eissa & Hoynes (2004); Fitzpatrick & Thompson (2010); Leigh (2010)

Recent Pushback

Klevin (2019)

Net-EITC Effects on Gov't Budget

Bastian & Jones (2019)

Wages decrease with EITC generosity

Leigh (2010); Rothstein (2010); Azmat (2018)

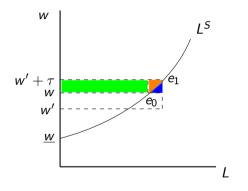
Policy Options

Expand EITC, Universal Basic Income / Negative Income Tax, In-Kind Transfers



Model: Welfare

Figure: Surplus of Group with Subsidy



Green: $(dw + d\tau) \cdot L_0 =$ Equivalent Variation Orange + Blue ≈ 0

What am I estimating?

Using IV approach, so that means:

$$\varepsilon_{ek,\text{LATE}}^{S} = \mathbf{E}_{a} \left[\mathbf{E}_{ek} \left[\frac{\partial \ln[L_{ek}]}{\partial \ln[w_{e}]} \middle| \partial \hat{\tau}_{ek} = a \right] \right]$$
(7)
$$\rho_{\text{LATE}} = \mathbf{E}_{b} \left[\mathbf{E}_{e} \left[\frac{\partial \ln[L_{e}/L_{1}]}{\partial \ln[w_{e}/w_{1}]} \middle| \partial \left[\hat{\tau}_{e} - \hat{\tau}_{1} \right] = b \right] \right]$$
(8)

Looking at responsiveness of labor markets if EITC tax change – exactly what we want for incidence: "compilers" ! Implies estimate not average elasticity

- incumbent workers are "always-takers"



Supply Elasticity: Within Market

IV Estimating Equations, given instrument vector Z

$$\ln [w]_{kest} = \pi_0 + Z_{kest} \Pi_1 + [Z'_{kest} \cdot g_{e,k}] \Pi_2 + d_{ek} + d_{st} + d_{w_0^{\%},t} + e_{est}^{W}$$
(9)
$$\ln [L]_{kest} = \alpha_0 + \alpha_1 \ln [w]_{kest} + \alpha_{(2,g)} [\ln [w]_{kest} \cdot g_{e,k}] + d_{ek} + d_{st} + d_{w_0^{\%},t} + e_{kest}^{L}$$
(10)

where d_{ek} are sub-market FEs, d_{st} are state-year FEs, and $d_{w_0^{\%},t}$ FEs are initial (1988) state-market wage percentiles interacted with year dummies.

$$\widehat{\varepsilon_{e,k}^{S}} = \widehat{\alpha_1} + \widehat{\alpha_{(2,g_{e,k})}} \to_p \varepsilon_{e,k}^{S}$$



Substitution Elasticity: Between Market

IV Estimating Equations, given instrument vector Z

$$D \ln [w]_{est} = \gamma_0 + [DZ_{est}] \Gamma_1 + d_{\tilde{e}} + d_{st} + d_{w_0^{\%},t} + v_{est}^{w}$$
(11)
$$D \ln [L]_{est} = \beta_0 + \beta_1 D \ln [w]_{est} + d_{\tilde{e}} + d_{st} + d_{w_0^{\%},t} + v_{est}^{L}$$
(12)

where $d_{\tilde{e}}$ interacts education w/ age-groups,

and $Dx_{est} = x_{est} - x_{1st}$ for some e' = 1 reference market.

$$\widehat{\rho} = \widehat{\beta_1} \to_{\mathbf{p}} \rho$$

Back to Identification

Production Side Elasticities

For the production side:

• Labor Elasticity of Substitution :

 $\{-0.30,-2.5\}$ - Rothstein, (2008 / 2010), my own estimate

• Capital Supply Elasticity:

 $\{1.0\}$ - Conservative Guess; Goolsbee (1998) finds short run 1, medium run 2.

Calculate cost shares as the labor market share of labor compensation (wage + health benefits):

Cost Shares

$$s_{L_e} = \left(\frac{\sum_{i \in L_e} W_{ie}}{\sum_{e'} \sum_{i \in L'_e} W_{ie'}}\right) \cdot \left(\frac{\text{Total Labor Payments}}{\text{Total Factor Payments}}\right)$$

Data + Labor Market Def

Data

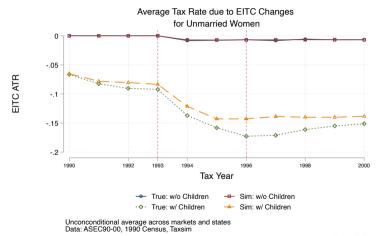
- CPS MORG 1988-2000, women 16-65 (IPUMS)
- 1990 Census 5% sample, women 16-65 (IPUMS)
- CPS ASEC 1995, women 20-59 (IPUMS)
- NBER Internet TAXSIM

Empirical Labor Market Definition

- Labor markets based on age-education-marriage status
 - ightarrow 72 skill groups
- This pools all other characteristics, including parental status
- This meant as a crude skill proxy

Back to Identification .

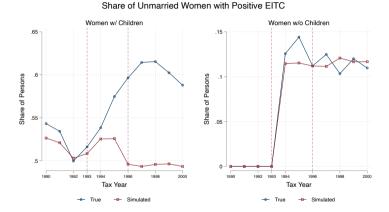
Figure: Simulated vs True Share Receiving EITC



Watson (2019)



Figure: Simulated vs True Share Receiving EITC



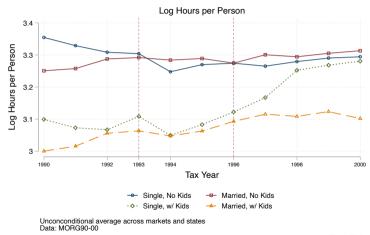
Unconconditional average across markets and states Data: ASEC90-00, 1990 Census, Taxsim

Watson (2019)

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Figure: Log Total Hours per Person

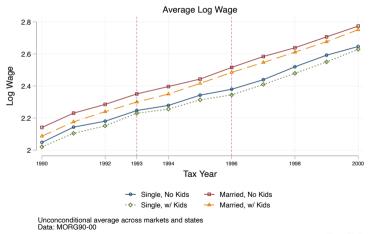


Watson (2019)



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Figure: Average Log Wage



Watson (2019)



Empirical Instruments

Easy to calculate $\hat{\tau}_{kest}$

Define the EITC ATR as:

$$\tau = \frac{(\mathsf{EITC})^{\mathsf{Actual}} - (\mathsf{EITC})^{\mathsf{No Work}}}{(\mathsf{Tax Unit Labor-Earnings})^{\mathsf{Actual}}},$$
(13)

where (EITC)^{No Work} is a counterfactual value if the woman's labor income was zero.

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Empirical Instruments

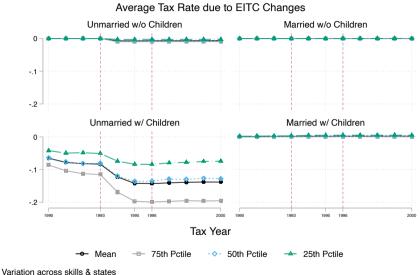
But spillover terms, Ψ_{est} ({ $\hat{\tau}_{est}$ }), depend on { $\{\varepsilon_{e,k}\}, \rho\}$!

For a given labor market $e' = \{ Edu, Age, Marriage \}$, approximate $\Psi_{e'st} (\{ \hat{\tau}_{est} \})$ using

• **E**[$\hat{\tau}_{est} \mid S, T, G = g$]

where $\{g\}_G$ are subgroups based on age, education, marriage matched to market e'

Back to Identification .



Data: 1990 Census, Taxsim

EITC ATR

For a dollar of New EITC spending...

Table: Aggregate 'Dollar' Effects: All Women

	ho = -0.3		ho = -2.5		
	"PE" GE		"PE"	GE	
Dollars	(1)	(2)	(3)	(4)	
Labor	-0.42	0.18	0.15	0.21	
Wage	-1.48	-0.41	-0.37	-0.28	
Earnings	-1.89	-0.22	-0.22	-0.07	
NetEarn	-0.89	0.78	0.78	0.93	
EV	-0.48	0.59	0.63	0.72	
PE/GE	-	-0.81	-	0.88	

Units in table are changes in dollars of earnings, LM changes summed across demographic groups. Earnings = Wage + Labor; Net Earnings = Earnings + Transfer, Equivalent Var. = Wages + Transfer. All data from 1995 March CPS, Women from Tax Units.

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Production Side Elasticities

For the production side:

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• Capital Supply Elasticity:

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Calculate cost shares as the labor market share of labor compensation (wage + health benefits):

Cost Shares
$$s_{L_e} = \left(\frac{\sum_{i \in L_e} W_{ie}}{\sum_{e'} \sum_{i \in L'_e} W_{ie'}}\right) \cdot \left(\frac{\text{Total Labor Payments}}{\text{Total Factor Payments}}\right)$$



Tax Reforms

I model each tax unit's (naive) subsidy change as:



I model $\hat{\tau}$ as the change in ATR from the policy:

Tax Change $\hat{\tau}_d = \sum_{i \in L_d} \left(\frac{\text{Subsidy}_{Reform} - \text{Subsidy}_{\text{Initial}}}{\text{Tax Unit Adj Gross Income}} \right)_i$

For Subsidy \in {EITC, NIT}



Summary Statistics: Back to TR Main

	Age	Anykids	Married	Get Eic
Unmarried Women	33.25	0.00	0.00	0.00
Married Women	47.54	0.00	1.00	0.00
Unmarried Mothers	34.51	1.00	0.00	0.66
Married Mothers	36.90	1.00	1.00	0.10
Total	37.99	0.45	0.57	0.11
	Less HS	HS Only	Less BA	BA+
Unmarried Women	0.26	0.26	0.30	0.18
Married Women	0.15	0.42	0.23	0.21
Unmarried Mothers	0.25	0.39	0.26	0.10
Married Mothers	0.13	0.38	0.28	0.22
Total	0.19	0.35	0.27	0.19
	Worker	Wage	Share of Workers	Cost Share
Unmarried Women	0.73	10.09	0.30	0.19
Married Women	0.69	11.17	0.25	0.17
Unmarried Mothers	0.68	9.60	0.12	0.07
Married Mothers	0.72	10.83	0.33	0.22
Total	0.71	10.54	1.00	0.66

All date from 1002 Mouch CDS, Warnen from Tay Unite Warne in \$1002

Incidence Compare: All Women

	ho = -0.3				ho=-2.5			
	"P		GE		"PE"		GE	
Dollars	EITC	NIT	EITC	NIT	EITC	<u>NIT</u>	<u>EITC</u>	NIT
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Intended	1.00	0.55	1.00	0.55	1.00	0.55	1.00	0.55
Labor	0.14	-0.17	0.36	-0.42	0.32	-0.42	0.35	-0.46
Wage	-0.48	0.55	-0.07	0.08	-0.12	0.15	-0.07	0.09
Earnings	-0.34	0.38	0.29	-0.34	0.20	-0.26	0.28	-0.37
NetEarn	0.66	1.38	1.29	0.66	1.20	0.73	1.28	0.63
EV	0.52	1.55	0.93	1.08	0.88	1.15	0.93	1.08
PE/GE	-	-	0.59	1.44	-	-	0.95	1.06
NIT/EITC	-	2.98	-	1.16	-	1.31	-	1.16

Units in table are changes in dollars of earnings, LM changes summed across demographic groups Earnings = Wage + Labor; Net Earnings = Earnings + Transfer, Equivalent Var. = Wages + Transfer_ ト イクト イント キャー・モート モート モート モート マン いって All data from 1993 March CPS Women from Tax Units