The Effect of an Employer Health Insurance Mandate on Health Insurance Coverage and the Demand for Labor: Evidence from Hawaii

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Web Appendices B and C

NOT FOR PUBLICATION

Appendix Table B1: Population Characteristics, Hawaii vs. Other States (mean values; calculated from March CPS files for 1980-83 and 2003-06)

Variable	1979-1982 (reference years)		2002-2005 (reference years)	
	Hawaii	U.S. ex. Hawaii	Hawaii	U.S. ex. Hawaii
Age (years)	35.7	35.2	38.6	38.3
		(shares)		
Married	0.574	0.598	0.506	0.540
Female	0.506	0.450	0.482	0.470
MSA	0.304	0.666	0.755	0.704
Vet	0.139	0.188	0.065	0.071
Education				
<High School	0.147	0.212	0.075	0.127
High School	0.388	0.396	0.319	0.320
Some College	0.294	0.246	0.344	0.304
College Grad	0.111	0.089	0.206	0.179
>College	0.060	0.057	0.057	0.070
Race/Ethnicity				
White	0.290	0.825	0.176	0.685
Black	0.007	0.097	0.012	0.109
Hispanic	0.022	0.058	0.068	0.146
Other	0.681	0.020	0.744	0.059
Nativity				
U.S.-born	n/a	n/a	0.769	0.839
Foreign-born citizen	n/a	n/a	0.133	0.057
Non-citizen	n/a	n/a	0.098	0.104
Firm size				
<10 emps	n/a	n/a	0.164	0.155
10-24 emps	n/a	n/a	0.127	0.118
25-99 emps	n/a	n/a	0.180	0.156
100-499 emps	n/a	n/a	0.154	0.151
500+ emps	n/a	n/a	0.376	0.421

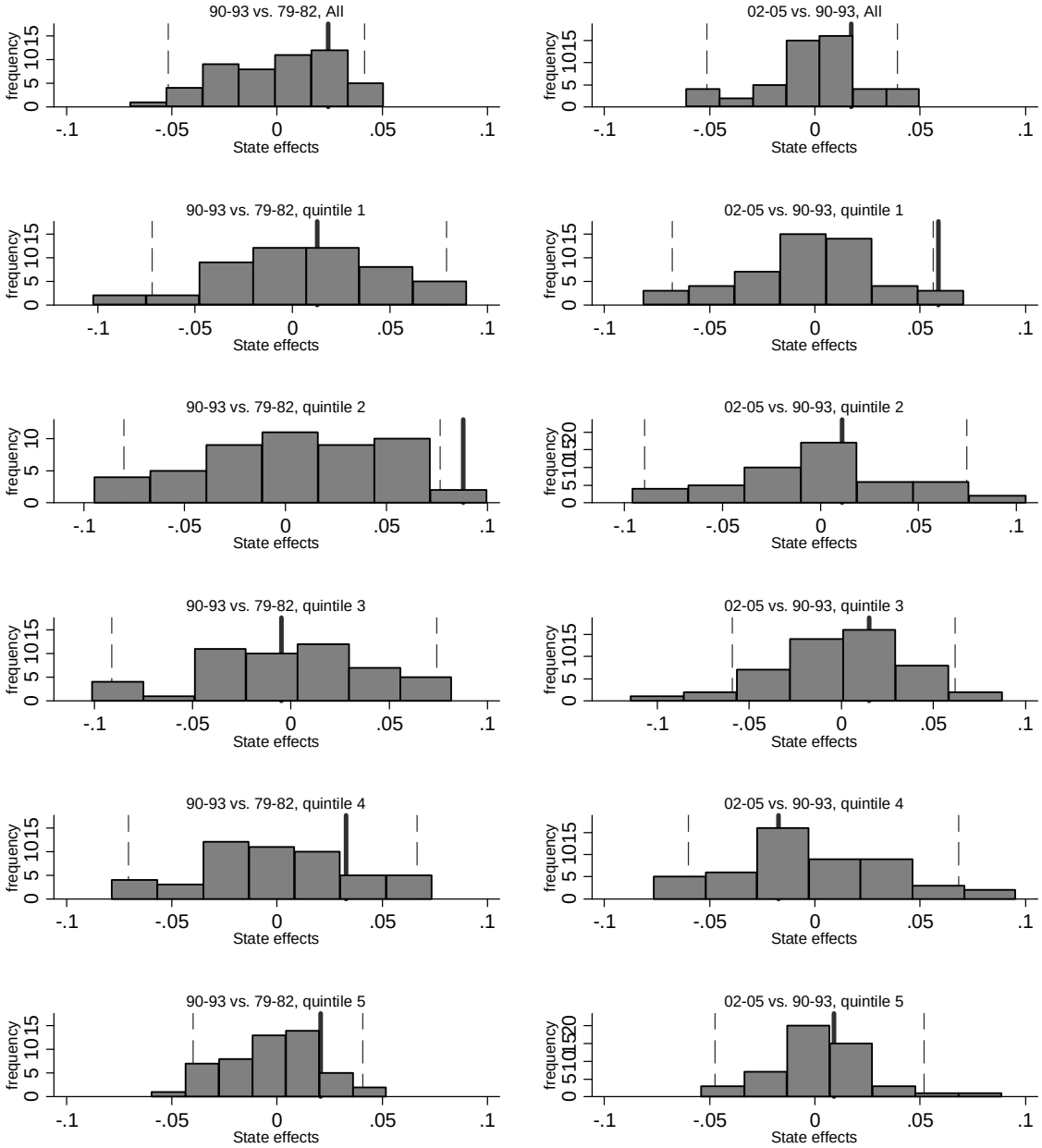
(continued)

Appendix Table B1 (continued)

Variable	1980-1983 (survey years)		2003-2006 (survey years)	
	Hawaii	U.S. ex. Hawaii	Hawaii	U.S. ex. Hawaii
	(shares)			
Industry				
Agriculture	0.045	0.021	0.017	0.011
Mining	0.001	0.013	0.001	0.005
Construction	0.077	0.063	0.093	0.077
Manufact. (non-dur)	0.060	0.115	0.024	0.057
Manufact. (dur.)	0.024	0.172	0.021	0.096
TCPU	0.086	0.070	0.080	0.070
Whlsle Trade	0.054	0.048	0.036	0.038
Retail Trade	0.244	0.194	0.150	0.142
F.I.R.E.	0.111	0.070	0.077	0.080
Business Services	0.061	0.045	0.085	0.077
Personal Services	0.085	0.038	0.187	0.103
Entertainment Serv.	0.015	0.012	0.019	0.018
Prof. Services	0.135	0.139	0.208	0.225
Occupation				
Managerial	0.097	0.090	0.124	0.128
Professional	0.105	0.098	0.114	0.135
Technical	0.015	0.018	0.020	0.029
Sales	0.103	0.082	0.131	0.129
Administrative	0.195	0.187	0.159	0.148
Services	0.196	0.134	0.225	0.163
Prod/craft/repair	0.117	0.142	0.097	0.090
Oper/fab/labor	0.059	0.135	0.041	0.086
Trans/movers	0.039	0.042	0.044	0.045
Handlers/cleaners	0.042	0.054	0.030	0.038
Farm	0.032	0.016	0.015	0.009
Sample size	2,477	230,619	4,507	297,649

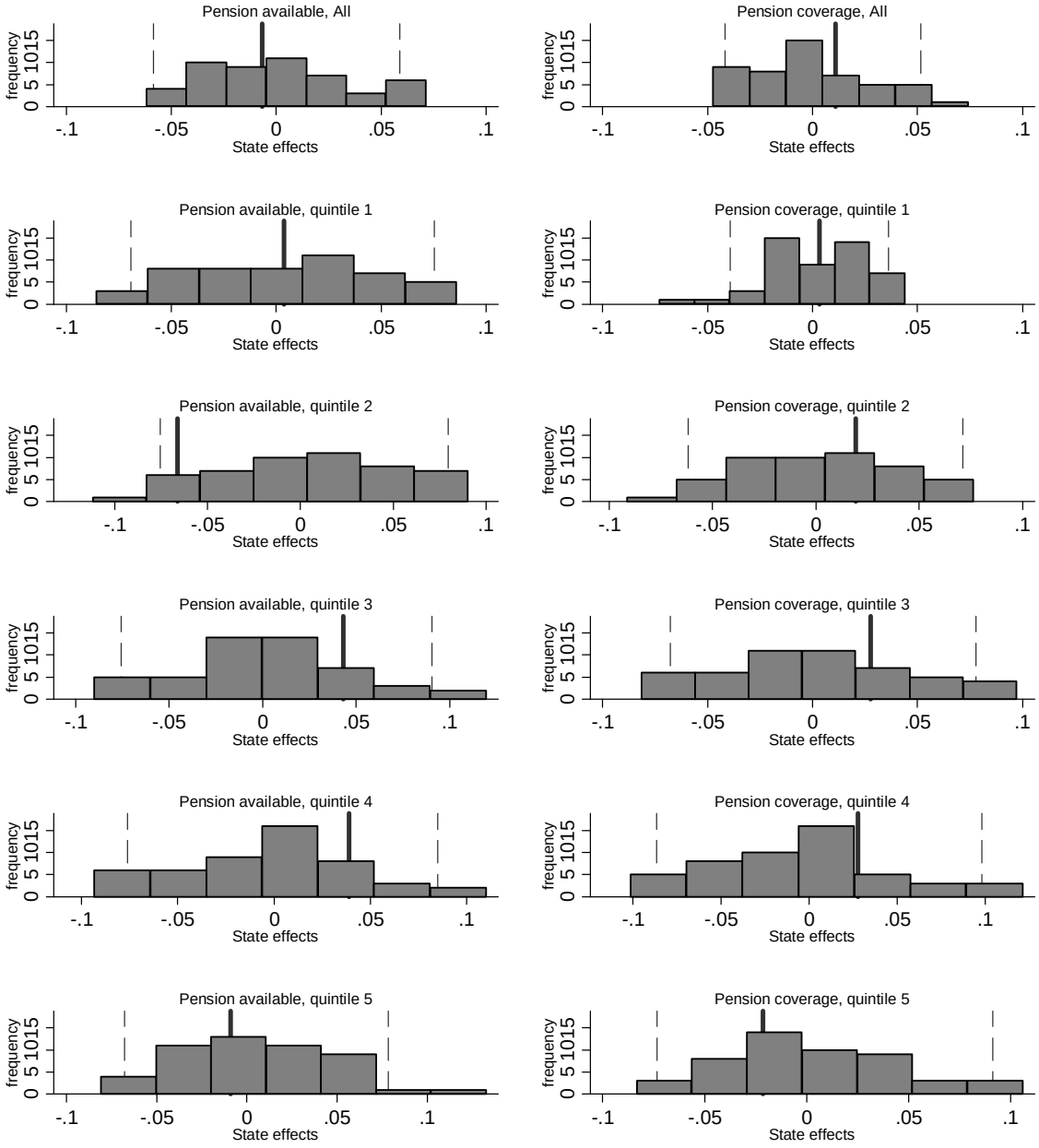
Note: Authors' calculations from March CPS data, private sector workers age 18-64 (weighted).

Figure B1: State Effects (percentages), Own ESI Coverage (by quintile)
Difference estimates (90-93 vs. 79-82, 02-05 vs. 90-93)



Note: Estimated using March CPS data, private sector workers age 18-64. The dashed lines are the 5th and 95th percentile values (other than Hawaii), the solid line is the Hawaii value. Logit models; covariates include the complete set of demographic/state and job controls (see Table 1). Effects estimated as treatment on the treated, converted to percentages (see text). Quintiles formed using fitted Pr(ESI), structure estimated for U.S. ex. Hawaii (see text).

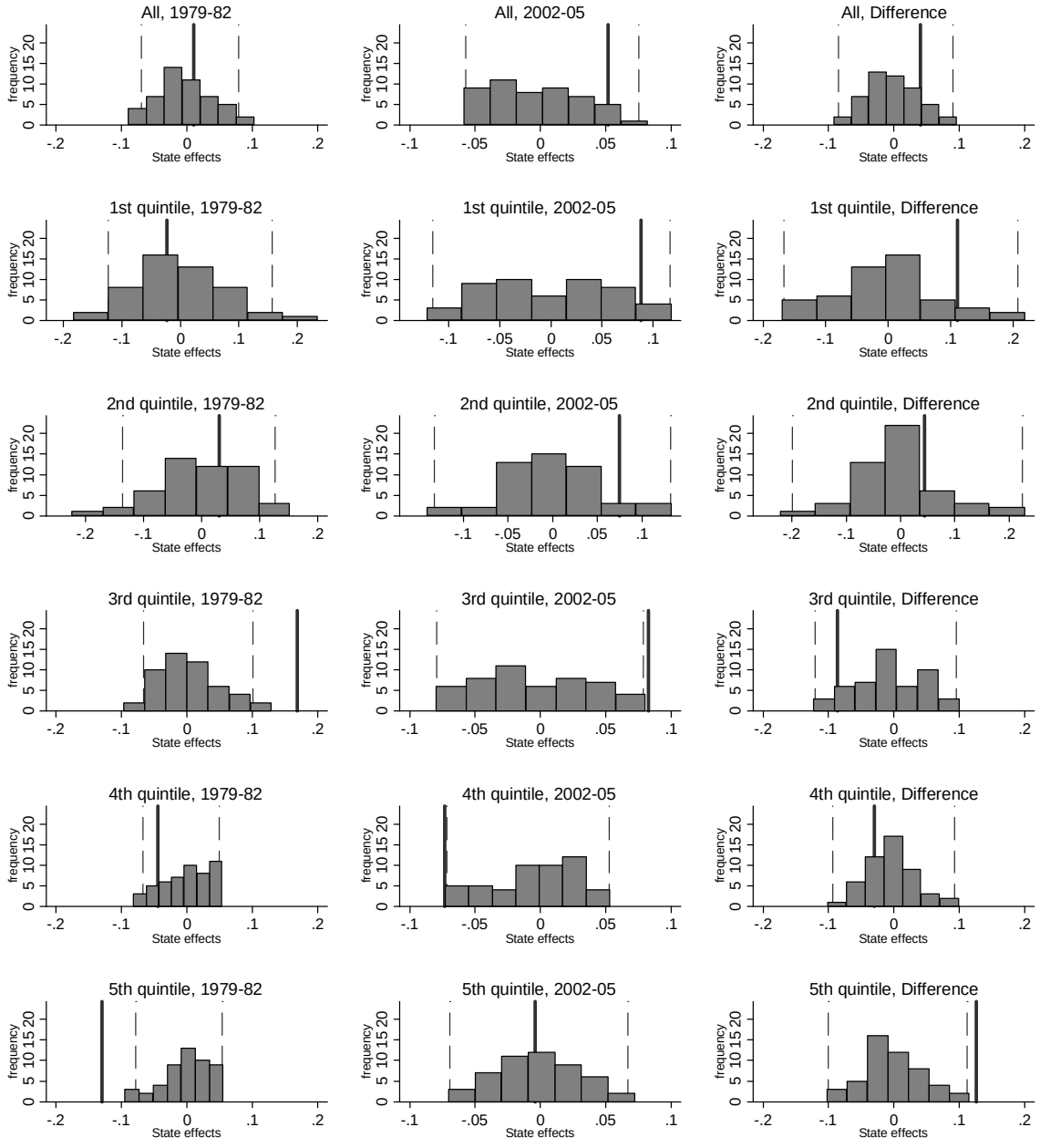
Figure B2: State Effects (percentages), Pensions (by quintile)
Difference estimates (2002-05 minus 1979-82)



Note: Estimated using March CPS data, private sector workers age 18-64. The dashed lines are the 5th and 95th percentile values (other than Hawaii), the solid line is the Hawaii value. Logit models; covariates include the complete set of demographic/state and job controls (see Table 1). Effects estimated as treatment on the treated, converted to percentages (see text). Quintiles formed using fitted Pr(pension), structure estimated for U.S. ex. Hawaii (see text).

Figure B3: State Effects (percentages), Own ESI Coverage (by quintile)
GOVERNMENT EMPLOYEES

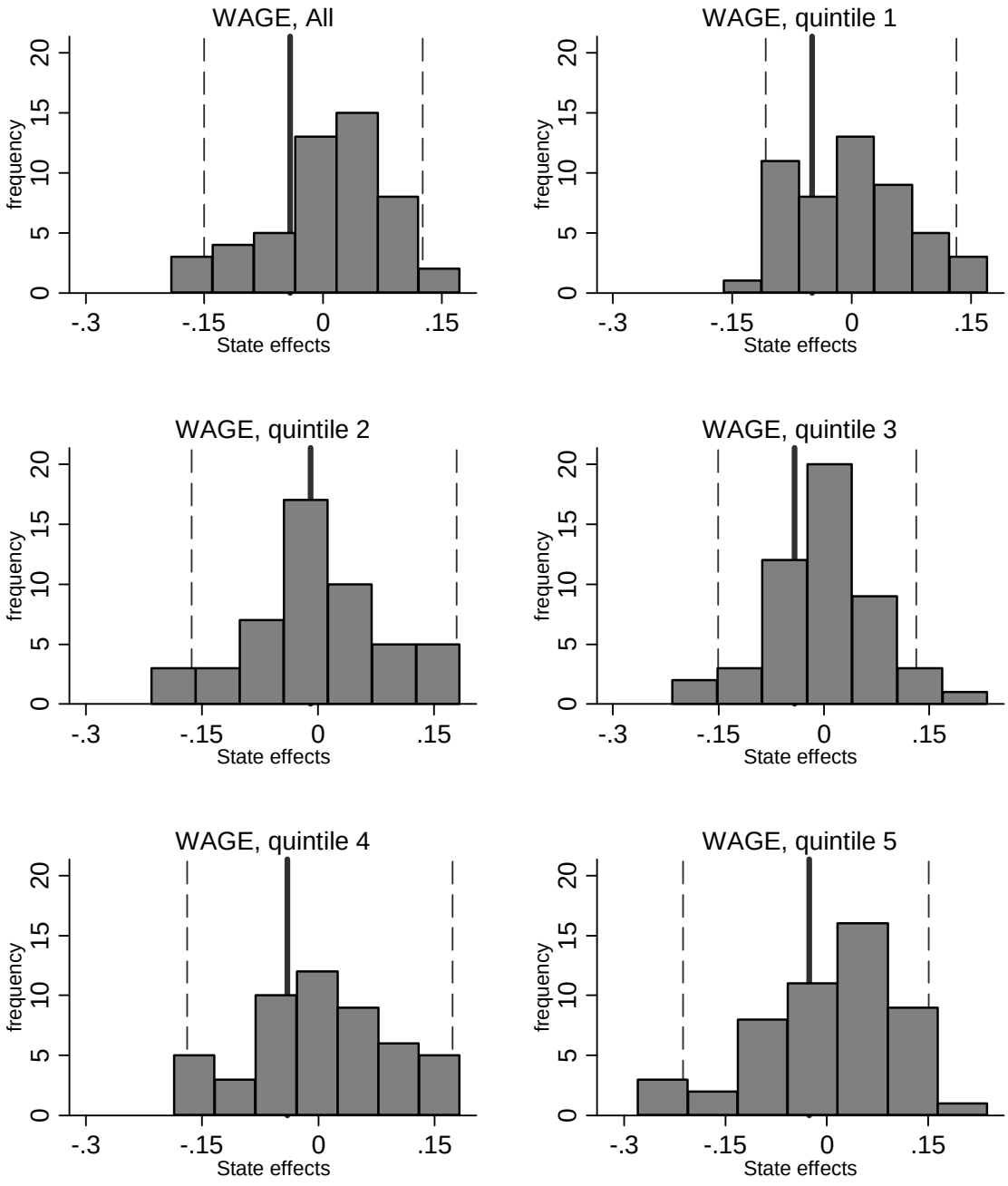
Estimates for 1979-82, 2002-05, difference (02-05 minus 79-82)



Note: Estimated using March CPS data. The thin dotted lines are the 2.5 and 97.5 percentile values (other than Hawaii), the thick solid line is the Hawaii value. Logit models; covariates include the complete set of demographic/state and job controls (see Table 1), except industry/occupation. Effects estimated as treatment on the treated (see text). Quintiles formed using fitted Pr(ESI) (government employees only), structure estimated for U.S. ex. Hawaii (see text).

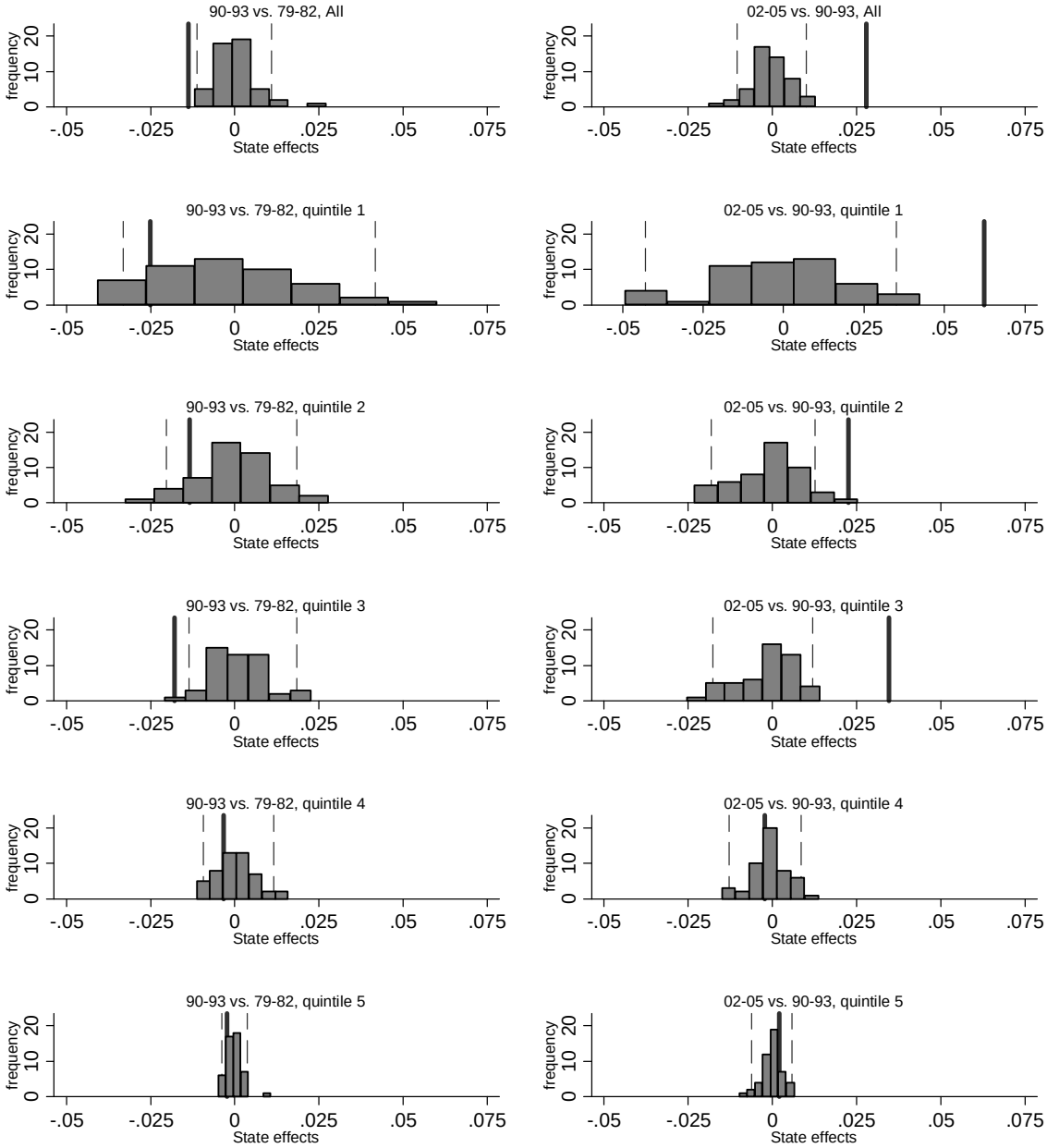
Figure B4: State Effects, Wages (by quintile)
RETAIL EMPLOYEES

Difference estimates (2002-05 minus 1979-82)



Note: Estimated using CPS MORG data, individuals age 18-64 (retail employees only). The dashed lines are the 5th and 95th percentile values (other than Hawaii), the solid line is the Hawaii value. Regressions are log-linear for wages (coefficients converted to % effects). Full controls used (see Table 1), except industry and occupation. Quintiles formed using March CPS, fitted Pr(ESI), structure estimated for U.S. ex. Hawaii (see text).

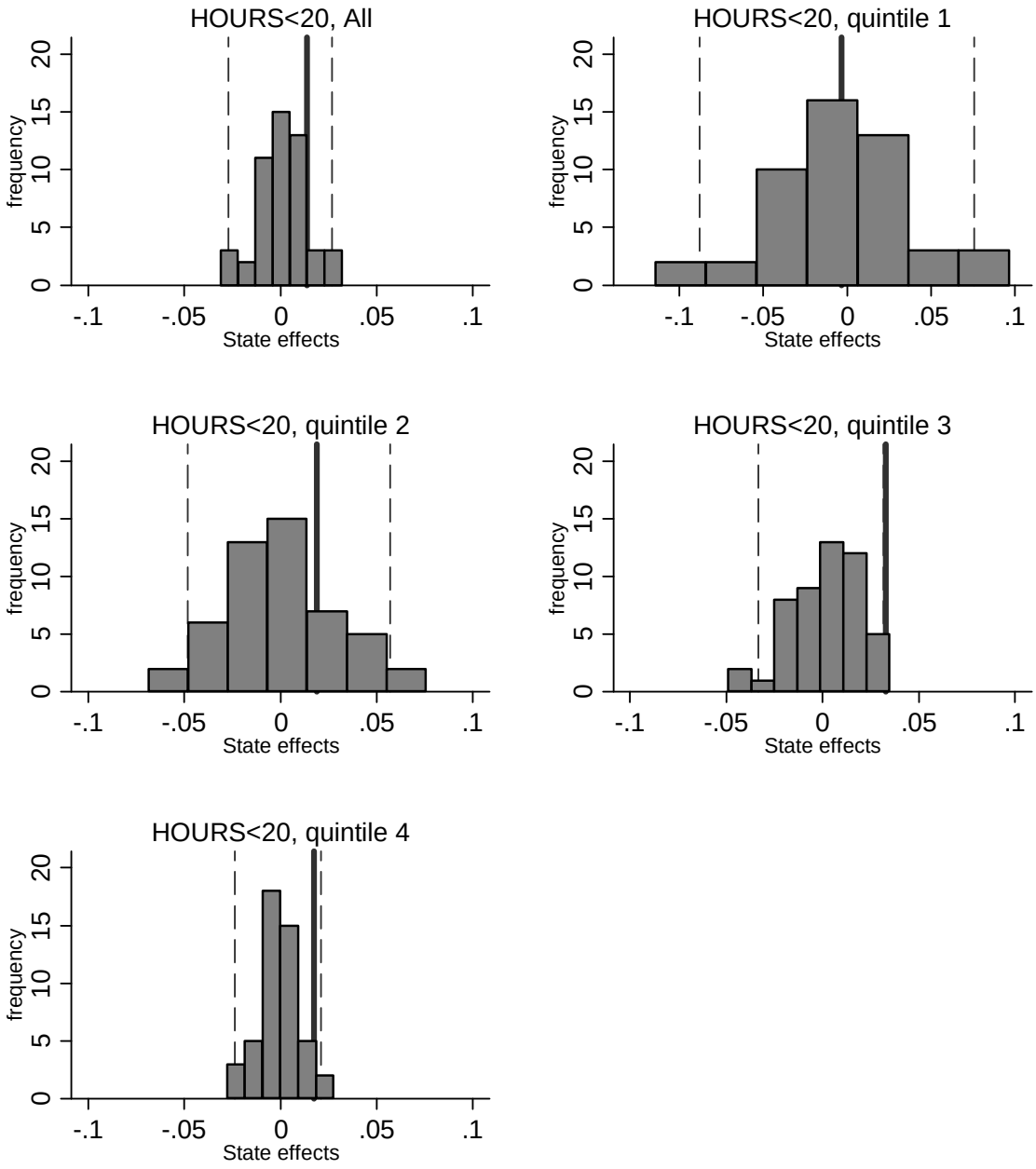
Figure B5: State Effects (percentages), Pr(hours<20) (by quintile)
Difference estimates (90-93 vs. 79-82, 02-05 vs. 90-93)



Note: Estimated using CPS MORG data, private sector workers age 18-64. The dashed lines are the 5th and 95th percentile values (other than Hawaii), the solid line is the Hawaii value. Logit models; covariates include the complete set of demographic/state and job controls (see Table 1). Effects estimated as treatment on the treated, converted to percentages (see text). Quintiles formed using fitted Pr(ESI), structure estimated for U.S. ex. Hawaii (see text).

Figure B6: State Effects, Low Hours (by quintile)
GOVERNMENT EMPLOYEES

Difference estimates (2002-05 minus 1979-82)



Note: Estimated using CPS MORG data, individuals age 18-64 (government employees only). The dashed lines are the 5th and 95th percentile values (other than Hawaii), the solid line is the Hawaii value. Logit models; effects are treatment on the treated, converted to percentages (see text). Full controls used (see Table 1), except industry and occupation. Quintiles formed using March CPS, fitted Pr(ESI) (government employees ony), structure estimated for U.S. ex. Hawaii (see text). Due to lack of variation, the Hawaii effect cannot be estimated for quintile 5 (hours<20); also, quintile 4 is based on 49 states other than Hawaii (rather than 50).

Appendix C: Complete Regression Results (selected equations, 2002-05 sample)

VARIABLES	(1) ESI Coverage (logit), 2002-05 (Table 1, Panel B)	(2) Log(wage), 2002-05 (used for Table 2, Panel A)	(3) Low Hours (logit), 2002-05 (used for Table 2, Panel B)	(4) Employed (logit), 2002-05 (used for Table 2, Panel C)
Hawaii dummy	0.914**	-0.00738	-0.0851	0.405**
	(0.0781)	(0.0209)	(0.0714)	(0.0488)
Ln(state min. wage)	-0.0908	0.258**	0.237	-0.0442
	(0.160)	(0.0612)	(0.190)	(0.166)
Change in ln(state GDP)	0.0750	0.0749	-2.538*	0.524
	(1.087)	(0.272)	(1.177)	(0.467)
State union density (nonfarm)	0.000770	0.00597**	0.0125**	-0.00733*
	(0.00387)	(0.00136)	(0.00393)	(0.00365)
Age	2.411**	0.0397**	-2.879**	1.436**
	(0.114)	(0.0139)	(0.212)	(0.0603)
$Age^2/10$	-0.836**	0.000706	1.042**	-0.512**
	(0.0440)	(0.00566)	(0.0864)	(0.0227)
$Age^3/1000$	1.266**	-0.0132	-1.662**	0.810**
	(0.0727)	(0.00984)	(0.147)	(0.0368)
$Age^4/100,000$	-0.705**	0.00991	0.993**	-0.490**
	(0.0436)	(0.00619)	(0.0888)	(0.0216)
HS degree	0.576**	0.131**	-0.418**	0.734**
	(0.0190)	(0.00950)	(0.0370)	(0.0265)
Some college	0.628**	0.221**	0.0798*	0.936**
	(0.0242)	(0.0111)	(0.0327)	(0.0318)
College degree	0.813**	0.404**	0.0528	1.242**
	(0.0275)	(0.0138)	(0.0582)	(0.0374)
Post-college degree	0.943**	0.599**	-0.106	1.513**
	(0.0312)	(0.0157)	(0.0663)	(0.0444)
Female	-5.577**	-0.497**	3.088	5.977**
	(1.228)	(0.160)	(1.979)	(0.505)
Female*Age	0.631**	0.0465*	-0.455	-0.583**
	(0.133)	(0.0189)	(0.233)	(0.0593)
Female*($Age^2/10$)	-0.253**	-0.0172*	0.230*	0.179**
	(0.0517)	(0.00795)	(0.0960)	(0.0244)
Female*($Age^3/1000$)	0.421**	0.0241	-0.436**	-0.219**
	(0.0858)	(0.0142)	(0.165)	(0.0422)
Female*($Age^4/100,000$)	-0.248**	-0.0110	0.271**	0.0939**
	(0.0515)	(0.00908)	(0.101)	(0.0261)
Married	0.0935**	0.130**	-0.767**	0.884**
	(0.0216)	(0.00400)	(0.0622)	(0.0141)

(continued)

Appendix C (continued)

VARIABLES	(1) ESI Coverage (logit), 2002-05 (Table 1, Panel B)	(2) Log(wage), 2002-05 (used for Table 2, Panel A)	(3) Low Hours (logit), 2002-05 (used for Table 2, Panel B)	(4) Employed (logit), 2002-05 (used for Table 2, Panel C)
Married*female	-0.876**	-0.103**	1.459**	-1.245**
	(0.0345)	(0.00410)	(0.0673)	(0.0310)
Black	-0.0527*	-0.105**	-0.595**	-0.427**
	(0.0232)	(0.0108)	(0.0428)	(0.0331)
Non-white/black	-0.178**	-0.0818**	-0.278**	-0.434**
	(0.0330)	(0.00798)	(0.0438)	(0.0505)
Hispanic	-0.294**	-0.154**	-0.703**	-0.0862*
	(0.0240)	(0.0129)	(0.0511)	(0.0356)
MSA residence	0.116**	0.143**	-0.0609	0.0105
	(0.0272)	(0.00945)	(0.0374)	(0.0348)
Veteran	-0.0389	-0.0115*	-0.0465	-0.168**
	(0.0270)	(0.00503)	(0.0478)	(0.0153)
Industries: Mining	1.516**	0.459**	-1.580**	--
	(0.120)	(0.0357)	(0.299)	
Construction	0.156*	0.282**	-0.568**	--
	(0.0740)	(0.0164)	(0.120)	
Manufacturing (non-dur)	1.259**	0.264**	-1.241**	--
	(0.106)	(0.0160)	(0.125)	
Manufacturing (durable)	1.267**	0.287**	-1.706**	--
	(0.0824)	(0.0159)	(0.138)	
Trans/comm/public utilities	0.936**	0.281**	-0.582**	--
	(0.0843)	(0.0147)	(0.120)	
Wholesale trade	0.994**	0.238**	-1.018**	--
	(0.0790)	(0.0142)	(0.110)	
Retail trade	0.476**	0.0181	-0.191	--
	(0.0756)	(0.0140)	(0.101)	
Finance/ins/real estate	0.837**	0.271**	-0.937**	--
	(0.0855)	(0.0154)	(0.113)	
Business services	0.186*	0.177**	-0.355**	--
	(0.0784)	(0.0157)	(0.113)	
Personal services	-0.0983	0.0246	-0.0549	--
	(0.105)	(0.0173)	(0.102)	
Entertainment services	0.433**	0.0656**	0.377**	--
	(0.122)	(0.0180)	(0.124)	
Professional services	0.583**	0.135**	-0.129	--
	(0.0823)	(0.0148)	(0.111)	

(continued)

Appendix C (continued)

VARIABLES	(1) ESI Coverage (logit), 2002-05 (Table 1, Panel B)	(2) Log(wage), 2002-05 (used for Table 2, Panel A)	(3) Low Hours (logit), 2002-05 (used for Table 2, Panel B)	(4) Employed (logit), 2002-05 (used for Table 2, Panel C)
Occupations: Managerial	1.095**	0.396**	-0.849**	--
	(0.0780)	(0.0155)	(0.133)	
Professional	0.833**	0.366**	0.141	--
	(0.0764)	(0.0155)	(0.121)	
Technical	0.928**	0.319**	-0.0485	--
	(0.0788)	(0.0132)	(0.121)	
Sales	0.446**	0.180**	0.255*	--
	(0.0699)	(0.0148)	(0.109)	
Administrative	0.751**	0.0904**	0.101	--
	(0.0735)	(0.0135)	(0.111)	
Service	0.212**	-0.0102	0.585**	--
	(0.0747)	(0.0122)	(0.108)	
Prod/craft/repair	0.640**	0.189**	-0.776**	--
	(0.0785)	(0.0147)	(0.129)	
Operators	0.541**	0.0364*	-0.125	--
	(0.0759)	(0.0137)	(0.124)	
Transportation/moving	0.325**	0.0374*	0.232	--
	(0.0732)	(0.0140)	(0.128)	
Handlers/cleaners	0.173*	-0.0241	0.352**	--
	(0.0822)	(0.0127)	(0.113)	
Constant	-26.70**	0.513**	25.33**	-13.82**
	(1.059)	(0.167)	(1.747)	(0.626)
Observations	302156	350191	513086	6984926
R-squared	--	0.464	--	--

Note: Omitted categories are education <high school degree, white race, agriculture industry, and farming occupations. Standard errors (clustered by state) in parentheses.
** p<0.01, * p<0.05 (based on conventional t-tests)