



```

      name: <unnamed>
      log: C:\Users\kmd86\Desktop\Papers I'm Working On\Nicaragua Bridges\Submission
> _Econometrica\Accepted\play_around\logged_results\SuppB.smcl
      log type: smcl
      opened on: 12 Mar 2020, 15:39:40

1 .
2 .
3 . * ----- *
4 . * Supp B.1: Importance of labor market income *
5 . * ----- *
6 .
7 . sort id

8 . by id: gen total_count = _N

9 .
10. gen test = 1 if income > 0 & !missing(income)
    (1,560 missing values generated)

11. by id: egen total_income_count = sum(test)

12. drop test

13. gen sh_income = total_income_count/total_count

14.
15. hist sh income, width(0.05) name(SuppB_Fig1a) fraction /*
    > */ xtitle("Fraction of weeks with positive wage earnings") ytitle("Fraction of House
    > holds") /*
    > */ yscale(r(0 0.35)) ylabel(0(0.10)0.35) /*
    > */ graphregion(color(white) ilwidth(none)) bgcolor(white) lcolor(black) fcolor("`co
    > lor_green_bar'")
    (bin=20, start=0, width=.05)

16. graph export "graphs/SuppB_Figure1a.eps", as(eps) preview(off) replace
    (file graphs/SuppB_Figure1a.eps written in EPS format)

17.
18. hist sh income if total_count >= 10, width(0.05) name(SuppB_Fig1b) fraction /*
    > */ xtitle("Fraction of weeks with positive wage earnings") ytitle("Fraction of House
    > holds") /*
    > */ yscale(r(0 0.35)) ylabel(0(0.10)0.35) /*
    > */ graphregion(color(white) ilwidth(none)) bgcolor(white) lcolor(black) fcolor("`co
    > lor_green_bar'")
    (bin=20, start=0, width=.05)

19. graph export "graphs/SuppB_Figure1b.eps", as(eps) preview(off) replace
    (file graphs/SuppB_Figure1b.eps written in EPS format)

20.
21.
22.
23.
24. * ----- *
25. * Supp B.2: How responses change during floods *
26. * ----- *
27.
28.

```

[illegible]

[illegible]

```

59. graph export "graphs/SuppB_Figure3b.eps", as(eps) preview(off) replace
    (file graphs/SuppB_Figure3b.eps written in EPS format)

60.
61.
62. // Table 3: Effect of flooding on survey response
63. by week comm, sort: egen flood2 = max(flood)

64.
65. gen answer = 0

66. replace answer = 1 if !missing(no_inc)
    (6,756 real changes made)

67.
68.
69. sort id

70. local ylist "answer"

71. foreach x of local ylist {
    2.
    72.     quietly {
    3.
    73.         // De-meaned dep variables
    74.         gen _hold = `x' if !missing(`x')
    4.             by id: egen avg_1 = mean(_hold)
    5.             gen `x'_net = `x' - avg_1
    6.             drop avg_1 _hold
    7.
    75.
    76.         // Normalize flood realization
    77.         gen _hold = flood2 if !missing(`x')
    8.             by id: egen _hold5 = mean(_hold)
    9.             gen flood_n = flood2 - _hold5
    10.             drop _hold
    11.
    78.         // Week indicators
    79.         forvalues ii = 5/71 {
    12.             gen _hold = Week `ii' if !missing(`x')
    13.             by id: egen _hold2 = mean(_hold)
    14.             gen Week `ii'_n = Week `ii' - _hold2
    15.             drop _hold _hold2
    16.         }
    17.
    80.     }
    18.
    81. // Regressions
    82.
    83.     display in red "-----"
    19.     display in red "    Flood and answering: SuppB Table 3    "
    20.     display in red "    No Week FE"
    >     "
    21.     display in red "-----"
    22.
    84.     cgmwildboot `x'_net flood_n, cluster(comm) bootcluster(comm) reps(`repbs')
    23.
    85.     display in red "-----"
    24.     display in red "    Flood and answering: SuppB Table 3    "
    25.     display in red "    With Week FE"
    >     "
    26.     display in red "-----"
    27.

```

```

86.      cgmwildboot `x'_net Week*_n flood_n, cluster(comm) bootcluster(comm) reps(`
> repbs')
28.
87.      loneway `x' comm
29.
88.
89. // Drop
90.      drop Week*_n flood_n _hold*
30.      drop `x'_net
31. }

```

-----  
**Flood and answering: SuppB Table 3**  
**No Week FE**  
 -----

```

Bootstrap reps (1000)
-----|-----|-----|-----|-----|
      1      2      3      4      5
.....
..... 50
..... 100
..... 150
..... 200
..... 250
..... 300
..... 350
..... 400
..... 450
..... 500
..... 550
..... 600
..... 650
..... 700
..... 750
..... 800
..... 850
..... 900
..... 950
..... 1000

```

```

.
Regress with clustered SEs/Wild bootstrap (1000 successful resamples)
Number of clustvars= 1      Number of obs = 18079
Num combinations = 1      R-squared = 0.0009
                        Adj R-squared = 0.0008
                        G(community) = 15
                        (Bootstrapped)

```

answer_net	Coef.	Null	p-value	[95% Conf. Interval]	
flood_n	-.03051423	.	.06	-.05911862	-.00287473
cons	-2.879e-09	.	.12	-8.676e-09	-1.661e-09

-----  
**Flood and answering: SuppB Table 3**  
**With Week FE**  
 -----

```

Bootstrap reps (1000)
-----|-----|-----|-----|-----|
      1      2      3      4      5
.....
..... 50
..... 100
..... 150
..... 200
..... 250
..... 300
..... 350
..... 400
..... 450
..... 500
..... 550
..... 600
..... 650
..... 700
..... 750
..... 800
..... 850

```

```

..... 900
..... 950
..... 1000
.
Regress with clustered SEs/Wild bootstrap (1000 successful resamples)
Number of clustvars= 1 Number of obs = 18079
Num combinations = 1 R-squared = 0.0248
Adj R-squared = 0.0212
G(community) = 15
(Bootstrapped)

```

answer_net	Coef.	Null	p-value	[95% Conf. Interval]	
Week_5_n	.00702414	.	.79	-.03913091	.05596492
Week_6_n	.05852271	.	.348	-.01703591	.13661152
Week_7_n	.06019019	.	.232	-.03244623	.15221557
Week_8_n	.0876765	.	.212	.02016439	.16046172
Week_9_n	.03765575	.	.37	-.02104278	.09727401
Week_10_n	.01848355	.	.704	-.03151711	.07099759
Week_11_n	.02955858	.	.608	-.05997735	.12336271
Week_12_n	-.04861108	.	.174	-.10720946	.01428031
Week_13_n	.00635816	.	.92	-.070079	.08182376
Week_14_n	-.0023349	.	.934	-.08833797	.09028938
Week_15_n	-.07623905	.	.068	-.15283068	.00310866
Week_16_n	-.08568599	.	.076	-.15166572	-.01549072
Week_17_n	-.13250257	.	.008	-.23053075	-.03661164
Week_18_n	-.11976087	.	.002	-.17123148	-.06803279
Week_19_n	-.14948071	.	.002	-.22579488	-.07085281
Week_20_n	-.16625466	.	.002	-.22141495	-.11347174
Week_21_n	-.18186937	.	.054	-.28221968	-.07576039
Week_22_n	-.08814245	.	.012	-.14604104	-.0311594
Week_23_n	-.18272479	.	.002	-.2580947	-.1093193
Week_24_n	(dropped)				
Week_25_n	(dropped)				
Week_26_n	-.12285921	.	.06	-.19068913	-.05321665
Week_27_n	.02504335	.	.424	-.05171634	.09090194
Week_28_n	.0269975	.	.566	-.03821738	.09551135
Week_29_n	.04271119	.	.292	-.03085925	.10240287
Week_30_n	-.01426472	.	.652	-.07727336	.05041096
Week_31_n	.0639126	.	.202	-.02133087	.13764377
Week_32_n	.01709416	.	.776	-.07469448	.10876839
Week_33_n	-.00675877	.	.816	-.04411288	.03058121
Week_34_n	-.02820201	.	.588	-.12348068	.06748068
Week_35_n	(dropped)				
Week_36_n	-.01774904	.	.73	-.10116129	.06304383
Week_37_n	.01797621	.	.52	-.03379478	.06305839
Week_38_n	-.03168633	.	.562	-.13172096	.0708367
Week_39_n	-.01735948	.	.61	-.06597987	.03027987
Week_40_n	-.05607657	.	.328	-.15568982	.05131355
Week_41_n	.00030836	.	.896	-.07311642	.07328165
Week_42_n	-.04213929	.	.544	-.15621503	.07828277
Week_43_n	-.05622874	.	.04	-.09310233	-.0207893
Week_44_n	-.06652953	.	.304	-.15658928	.02879987
Week_45_n	-.04383369	.	.378	-.11424442	.02620648
Week_46_n	-.11531002	.	.12	-.21804555	-.00429723
Week_47_n	-.07389658	.	.114	-.14437987	-.00350471
Week_48_n	-.10485706	.	.078	-.18700524	-.0166531
Week_49_n	-.04209446	.	.246	-.0980448	.01383219
Week_50_n	-.09091978	.	.076	-.17100194	-.00875837
Week_51_n	-.01148611	.	.762	-.05329809	.03065094
Week_52_n	-.04213929	.	.154	-.09502448	.0163562
Week_53_n	-.05622874	.	.044	-.09338821	-.01907771
Week_54_n	-.03517065	.	.516	-.12996003	.07234882
Week_55_n	-.08569105	.	.08	-.14555147	-.0278696
Week_56_n	-.06304521	.	.312	-.15953101	.03882757
Week_57_n	-.07468352	.	.044	-.13425127	-.01624284
Week_58_n	-.07101169	.	.342	-.16646948	.03268639
Week_59_n	-.11478973	.	.042	-.16264872	-.06819827
Week_60_n	-.07001385	.	.228	-.15428631	.01906859
Week_61_n	-.07036301	.	.08	-.12580435	-.01496965
Week_62_n	-.07698249	.	.2	-.16318943	.01474819
Week_63_n	-.13254848	.	.028	-.21170098	-.05553345

Week_64_n	-.14168418	.	.058	-.22978751	-.04702394
Week_65_n	-.09715768	.	.014	-.15069389	-.04356406
Week_66_n	-.18556959	.	.006	-.25776428	-.10799727
Week_67_n	-.13412975	.	.052	-.21958771	-.0516821
Week_68_n	-.16162756	.	.004	-.22395723	-.09406852
Week_69_n	-.13239053	.	.032	-.19126387	-.07838559
Week_70_n	-.16481942	.	.004	-.23293363	-.09419309
Week_71_n	-.13750082	.	.002	-.18363325	-.0950971
flood_n	.02572761	.	.128	-.00075382	.05240548
cons	-2.825e-09	.	.02	-4.795e-09	-9.796e-10

One-way Analysis of Variance for answer:

Number of obs = 18,079  
R-squared = 0.0244

Source	SS	df	MS	F	Prob > F
Between community	103.11493	14	7.3653518	32.23	0.0000
Within community	4128.2136	18,064	.22853264		
Total	4231.3285	18,078	.23405955		

Intraclass correlation	Asy. S.E.	[95% Conf. Interval]	
0.02566	0.01072	0.00466	0.04667
Estimated SD of community effect			.0775838
Estimated SD within community			.4780509
Est. reliability of a community mean (evaluated at n=1185.67)			0.96897

```

91.
92.
93.
94.
95. * ----- *
96. * Supp B.4: HF Balance checks *
97. * ----- *
98.
99. use `data1', clear

100
101 xtset id week
    panel variable: id (unbalanced)
    time variable: week, 5 to 71, but with gaps
                delta: 1 unit

102 gen month = month(date)
103 order month, after(date)
104 sort date

105
106 by id, sort: egen hf_count = count(no_inc)

107 keep id hf_count

```

```

108
109 sort id

110 drop if id[_n] == id[_n-1]
    (6,186 observations deleted)

111
112 tempfile data55

113 save `data55'
    file C:\Users\kmd86\AppData\Local\Temp\ST_fbc_000002.tmp saved

114
115
116 use "Final_Dataset_pr.dta", clear

117 keep if Wave_number == 2
    (926 observations deleted)

118 order id

119
120 #delimit ;
    delimiter now ;
121 keep id build
    > bridge_dist age_head Kids edu_head HHsize
    > agr_hh wage_hh tttotal_earnings
    > tMaiz_harvest tFrijoles_harvest Maiz_anyplant Frijoles_anyplant tintermed_spend
    > Staples_anyplant I_intermed
    > ;

122 #delimit cr
    delimiter now cr
123
124 merge 1:1 id using `data55'

      Result                                     # of obs.
      -----
not matched                                     299
    from master                               155  (_merge==1)
    from using                                144  (_merge==2)

matched                                         426  (_merge==3)
-----

125
126 order _merge

127 sort _merge id

128 keep if _merge == 1 | _merge == 3
    (144 observations deleted)

129 replace hf_count = 0 if _merge == 1
    (155 real changes made)

130 drop _merge

131
132 gen in_HF = 0

```



```
133 replace in_HF = 1 if hf_count > 0
    (426 real changes made)
```

```
134 gen build_HF = build*in_HF
```

```
135 gen build_HF_num = build*hf_count
```

```
136
```

```
137
```

```
138
```

```
139 * ----- Table 4. Outcome is number of observations.
```

```
140
```

```
141 // Household composition
```

```
142 reg bridge_dist build hf_count build_HF_num
```

Source	SS	df	MS	Number of obs	=	571
Model	<b>10.0942621</b>	<b>3</b>	<b>3.36475403</b>	F(3, 567)	=	<b>2.79</b>
Residual	<b>683.201085</b>	<b>567</b>	<b>1.20494018</b>	Prob > F	=	<b>0.0398</b>
				R-squared	=	<b>0.0146</b>
				Adj R-squared	=	<b>0.0093</b>
Total	<b>693.295347</b>	<b>570</b>	<b>1.21630763</b>	Root MSE	=	<b>1.0977</b>

  

bridge_dis~m	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	<b>-.1452567</b>	<b>.1357591</b>	<b>-1.07</b>	<b>0.285</b>	<b>-.4119089</b>	<b>.1213954</b>
hf_count	<b>-.0145655</b>	<b>.0062366</b>	<b>-2.34</b>	<b>0.020</b>	<b>-.026815</b>	<b>-.0023159</b>
build_HF_num	<b>.002343</b>	<b>.0107263</b>	<b>0.22</b>	<b>0.827</b>	<b>-.018725</b>	<b>.0234111</b>
_Cons	<b>1.673455</b>	<b>.0891797</b>	<b>18.76</b>	<b>0.000</b>	<b>1.498292</b>	<b>1.848618</b>

```
143 reg age_head build hf_count build_HF_num
```

Source	SS	df	MS	Number of obs	=	581
Model	<b>3658.61424</b>	<b>3</b>	<b>1219.53808</b>	F(3, 577)	=	<b>4.57</b>
Residual	<b>154080.095</b>	<b>577</b>	<b>267.03656</b>	Prob > F	=	<b>0.0036</b>
				R-squared	=	<b>0.0232</b>
				Adj R-squared	=	<b>0.0181</b>
Total	<b>157738.709</b>	<b>580</b>	<b>271.963292</b>	Root MSE	=	<b>16.341</b>

  

age_head	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	<b>1.256326</b>	<b>2.006674</b>	<b>0.63</b>	<b>0.532</b>	<b>-2.684951</b>	<b>5.197603</b>
hf_count	<b>-.1856274</b>	<b>.0920002</b>	<b>-2.02</b>	<b>0.044</b>	<b>-.3663236</b>	<b>-.0049312</b>
build_HF_num	<b>-.2117553</b>	<b>.1576968</b>	<b>-1.34</b>	<b>0.180</b>	<b>-.5214849</b>	<b>.0979744</b>
_Cons	<b>47.04263</b>	<b>1.319961</b>	<b>35.64</b>	<b>0.000</b>	<b>44.45011</b>	<b>49.63514</b>

```
144 reg edu_head build hf_count build_HF_num
```

Source	SS	df	MS	Number of obs	=	513
Model	<b>72.1341737</b>	<b>3</b>	<b>24.0447246</b>	F(3, 509)	=	<b>2.65</b>
Residual	<b>4609.97499</b>	<b>509</b>	<b>9.05692532</b>	Prob > F	=	<b>0.0479</b>
				R-squared	=	<b>0.0154</b>
				Adj R-squared	=	<b>0.0096</b>
Total	<b>4682.10916</b>	<b>512</b>	<b>9.14474446</b>	Root MSE	=	<b>3.0095</b>

  

edu_head	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	<b>.2986238</b>	<b>.4263676</b>	<b>0.70</b>	<b>0.484</b>	<b>-.5390332</b>	<b>1.136281</b>
hf_count	<b>.0381145</b>	<b>.0169431</b>	<b>2.25</b>	<b>0.025</b>	<b>.0048274</b>	<b>.0714016</b>
build_HF_num	<b>.0015371</b>	<b>.0325384</b>	<b>0.05</b>	<b>0.962</b>	<b>-.062389</b>	<b>.0654632</b>
_Cons	<b>3.022502</b>	<b>.2430895</b>	<b>12.43</b>	<b>0.000</b>	<b>2.54492</b>	<b>3.500084</b>

145 reg Kids build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs	=	581
Model	11.4017787	3	3.8005929	F(3, 577)	=	2.98
Residual	736.488066	577	1.27640913	Prob > F	=	0.0310
				R-squared	=	0.0152
				Adj R-squared	=	0.0101
Total	747.889845	580	1.28946525	Root MSE	=	1.1298

  

Kids	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	-.0165287	.1387351	-0.12	0.905	-.2890161	.2559588
hf_count	.0111763	.0063606	1.76	0.079	-.0013165	.0236691
build_HF_num	.0099059	.0109027	0.91	0.364	-.0115078	.0313196
_cons	1.16356	.0912579	12.75	0.000	.9843219	1.342798

146 reg HHsize build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs	=	581
Model	73.1380256	3	24.3793419	F(3, 577)	=	8.36
Residual	1683.60208	577	2.91785455	Prob > F	=	0.0000
				R-squared	=	0.0416
				Adj R-squared	=	0.0366
Total	1756.7401	580	3.02886225	Root MSE	=	1.7082

  

HHsize	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	-.0083138	.2097603	-0.04	0.968	-.4203007	.4036731
hf_count	.0315342	.0096169	3.28	0.001	.0126457	.0504226
build_HF_num	.0186528	.0164843	1.13	0.258	-.0137236	.0510293
_cons	3.809728	.1379773	27.61	0.000	3.538729	4.080727

147

148 // Occupation and Earnings

149 reg agr\_hh build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs	=	581
Model	1.01313969	3	.337713232	F(3, 577)	=	1.35
Residual	144.202007	577	.249916823	Prob > F	=	0.2568
				R-squared	=	0.0070
				Adj R-squared	=	0.0018
Total	145.215146	580	.250370942	Root MSE	=	.49992

  

agr_hh	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	.1029325	.0613888	1.68	0.094	-.0176403	.2235053
hf_count	.0046699	.0028145	1.66	0.098	-.000858	.0101978
build_HF_num	-.005291	.0048243	-1.10	0.273	-.0147663	.0041844
_cons	.4384338	.0403807	10.86	0.000	.3591228	.5177448

150 reg wage\_hh build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs	=	581
Model	.548308863	3	.182769621	F(3, 577)	=	0.74
Residual	142.99386	577	.247822981	Prob > F	=	0.5299
				R-squared	=	0.0038
				Adj R-squared	=	-0.0014
Total	143.542169	580	.247486498	Root MSE	=	.49782

wage_hh	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	-.018158	.0611311	-0.30	0.767	-.1382247	.1019086
hf_count	.0031447	.0028027	1.12	0.262	-.00236	.0086494
build_HF_num	-.0005714	.0048041	-0.12	0.905	-.010007	.0088642
_cons	.5328002	.0402112	13.25	0.000	.4538221	.6117783

151 reg tttotal\_earnings build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs = 578		
Model	5833622.29	3	1944540.76	F(3, 574)	=	0.42
Residual	2.6369e+09	574	4593891.19	Prob > F	=	0.7364
Total	2.6427e+09	577	4580116.41	R-squared	=	0.0022
				Adj R-squared	=	-0.0030
				Root MSE	=	2143.3

  

tttotal_ear~s	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	182.7154	263.3772	0.69	0.488	-334.5853	700.0161
hf_count	2.447509	12.11333	0.20	0.840	-21.34435	26.23937
build_HF_num	-21.09626	20.72937	-1.02	0.309	-61.81092	19.6184
_cons	1037.681	173.391	5.98	0.000	697.1226	1378.239

152

153 // Farming

154 reg tMaiz\_harvest build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs = 575		
Model	265.153353	3	88.384451	F(3, 571)	=	1.00
Residual	50290.5858	571	88.074581	Prob > F	=	0.3908
Total	50555.7391	574	88.0762006	R-squared	=	0.0052
				Adj R-squared	=	0.0000
				Root MSE	=	9.3848

  

tMaiz_harv~t	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	.2260938	1.1568	0.20	0.845	-2.046009	2.498197
hf_count	-.003025	.05299	-0.06	0.954	-.107104	.101054
build_HF_num	.0921425	.0912373	1.01	0.313	-.0870591	.2713441
_cons	2.522248	.7633102	3.30	0.001	1.02301	4.021486

155 reg tFrijoles\_harvest build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs = 580		
Model	37.6728303	3	12.5576101	F(3, 576)	=	0.45
Residual	16090.7664	576	27.9353583	Prob > F	=	0.7177
Total	16128.4392	579	27.8556809	R-squared	=	0.0023
				Adj R-squared	=	-0.0029
				Root MSE	=	5.2854

  

tFrijoles_~t	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	.7186823	.6491321	1.11	0.269	-.5562722	1.993637
hf_count	.0145193	.0297589	0.49	0.626	-.0439299	.0729685
build_HF_num	-.0510791	.0510067	-1.00	0.317	-.1512608	.0491026
_cons	1.344623	.4270726	3.15	0.002	.5058131	2.183432

156 reg Staples\_anyplant build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs	=	581
Model	.254909657	3	.084969886	F(3, 577)	=	0.37
Residual	132.99466	577	.230493345	Prob > F	=	0.7757
				R-squared	=	0.0019
				Adj R-squared	=	-0.0033
Total	133.24957	580	.229740637	Root MSE	=	.4801

  

Staples_an~t	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	.0572388	.058955	0.97	0.332	-.0585538	.1730314
hf_count	.000372	.0027029	0.14	0.891	-.0049367	.0056808
build_HF_num	-.0030875	.004633	-0.67	0.505	-.0121872	.0060122
_cons	.339947	.0387797	8.77	0.000	.2637804	.4161137

157 reg tintermed\_spend build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs	=	575
Model	5137078	3	1712359.33	F(3, 571)	=	0.36
Residual	2.7387e+09	571	4796305.66	Prob > F	=	0.7841
				R-squared	=	0.0019
				Adj R-squared	=	-0.0034
Total	2.7438e+09	574	4780187.47	Root MSE	=	2190

  

tintermed_~d	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	187.5378	270.9658	0.69	0.489	-344.6734	719.7491
hf_count	-3.220145	12.37261	-0.26	0.795	-27.52153	21.08124
build_HF_num	-11.44983	21.28299	-0.54	0.591	-53.25233	30.35267
_cons	934.2614	178.2076	5.24	0.000	584.239	1284.284

158 reg I\_intermed build hf\_count build\_HF\_num

Source	SS	df	MS	Number of obs	=	581
Model	.063261645	3	.021087215	F(3, 577)	=	0.08
Residual	143.255155	577	.248275832	Prob > F	=	0.9683
				R-squared	=	0.0004
				Adj R-squared	=	-0.0048
Total	143.318417	580	.247100718	Root MSE	=	.49827

  

I_intermed	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	-.0236409	.0611869	-0.39	0.699	-.1438172	.0965354
hf_count	.0002297	.0028052	0.08	0.935	-.0052801	.0057394
build_HF_num	.0012245	.0048084	0.25	0.799	-.0082196	.0106687
_cons	.4455177	.0402479	11.07	0.000	.3664675	.5245679

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165 \* ----- Actual Table 5. Outcome is indicator for participation.

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167 // Household composition

168 reg bridge\_dist build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	571
Model	<b>8.4585</b>	<b>3</b>	<b>2.8195</b>	F(3, 567)	=	<b>2.33</b>
Residual	<b>684.836847</b>	<b>567</b>	<b>1.20782513</b>	Prob > F	=	<b>0.0730</b>
				R-squared	=	<b>0.0122</b>
				Adj R-squared	=	<b>0.0070</b>
Total	<b>693.295347</b>	<b>570</b>	<b>1.21630763</b>	Root MSE	=	<b>1.099</b>

  

bridge_dis~m	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	<b>-.3371715</b>	<b>.1781606</b>	<b>-1.89</b>	<b>0.059</b>	<b>-.6871068</b>	<b>.0127638</b>
in_HF	<b>-.3420418</b>	<b>.1393236</b>	<b>-2.46</b>	<b>0.014</b>	<b>-.6156952</b>	<b>-.0683884</b>
build_HF	<b>.3216211</b>	<b>.2096941</b>	<b>1.53</b>	<b>0.126</b>	<b>-.0902509</b>	<b>.733493</b>
_cons	<b>1.777925</b>	<b>.1213655</b>	<b>14.65</b>	<b>0.000</b>	<b>1.539544</b>	<b>2.016306</b>

169 reg age\_head build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	581
Model	<b>7158.84978</b>	<b>3</b>	<b>2386.28326</b>	F(3, 577)	=	<b>9.14</b>
Residual	<b>150579.859</b>	<b>577</b>	<b>260.970293</b>	Prob > F	=	<b>0.0000</b>
				R-squared	=	<b>0.0454</b>
				Adj R-squared	=	<b>0.0404</b>
Total	<b>157738.709</b>	<b>580</b>	<b>271.963292</b>	Root MSE	=	<b>16.155</b>

  

age_head	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	<b>-1.206827</b>	<b>2.601693</b>	<b>-0.46</b>	<b>0.643</b>	<b>-6.316771</b>	<b>3.903116</b>
in_HF	<b>-8.312657</b>	<b>2.033839</b>	<b>-4.09</b>	<b>0.000</b>	<b>-12.30729</b>	<b>-4.318026</b>
build_HF	<b>.8269724</b>	<b>3.059761</b>	<b>0.27</b>	<b>0.787</b>	<b>-5.182654</b>	<b>6.836599</b>
_cons	<b>51.37349</b>	<b>1.773195</b>	<b>28.97</b>	<b>0.000</b>	<b>47.89079</b>	<b>54.8562</b>

170 reg Kids build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	581
Model	<b>18.0589537</b>	<b>3</b>	<b>6.01965122</b>	F(3, 577)	=	<b>4.76</b>
Residual	<b>729.830891</b>	<b>577</b>	<b>1.26487156</b>	Prob > F	=	<b>0.0028</b>
				R-squared	=	<b>0.0241</b>
				Adj R-squared	=	<b>0.0191</b>
Total	<b>747.889845</b>	<b>580</b>	<b>1.28946525</b>	Root MSE	=	<b>1.1247</b>

  

Kids	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	<b>.105589</b>	<b>.1811272</b>	<b>0.58</b>	<b>0.560</b>	<b>-.2501601</b>	<b>.4613381</b>
in_HF	<b>.420175</b>	<b>.1415938</b>	<b>2.97</b>	<b>0.003</b>	<b>.1420728</b>	<b>.6982772</b>
build_HF	<b>-.0540366</b>	<b>.2130174</b>	<b>-0.25</b>	<b>0.800</b>	<b>-.4724207</b>	<b>.3643475</b>
_cons	<b>.9638554</b>	<b>.123448</b>	<b>7.81</b>	<b>0.000</b>	<b>.7213931</b>	<b>1.206318</b>

171 reg edu\_head build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	513
Model	<b>117.167198</b>	<b>3</b>	<b>39.0557327</b>	F(3, 509)	=	<b>4.35</b>
Residual	<b>4564.94196</b>	<b>509</b>	<b>8.96845179</b>	Prob > F	=	<b>0.0048</b>
				R-squared	=	<b>0.0250</b>
				Adj R-squared	=	<b>0.0193</b>
Total	<b>4682.10916</b>	<b>512</b>	<b>9.14474446</b>	Root MSE	=	<b>2.9947</b>

edu_head	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	.7619747	.5716611	1.33	0.183	-.3611309	1.88508
in_HF	1.24811	.3770334	3.31	0.001	.507377	1.988844
build_HF	-.6507429	.6573242	-0.99	0.323	-1.942145	.6406596
_cons	2.481928	.3287151	7.55	0.000	1.836122	3.127733

172 reg HHsize build in\_HF build\_HF

Source	SS	df	MS	Number of obs = 581		
Model	58.3515072	3	19.4505024	F(3, 577) = 6.61		
Residual	1698.3886	577	2.9434811	Prob > F = 0.0002		
Total	1756.7401	580	3.02886225	R-squared = 0.0332		
				Adj R-squared = 0.0282		
				Root MSE = 1.7157		

  

HHsize	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	.0040161	.2763066	0.01	0.988	-.5386732	.5467053
in_HF	.6377296	.215999	2.95	0.003	.2134895	1.06197
build_HF	.1618614	.3249545	0.50	0.619	-.4763765	.8000992
_cons	3.662651	.1883179	19.45	0.000	3.292778	4.032523

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174 // Occupation and Earnings

175 reg agr\_hh build in\_HF build\_HF

Source	SS	df	MS	Number of obs = 581		
Model	.524830783	3	.174943594	F(3, 577) = 0.70		
Residual	144.690316	577	.250763112	Prob > F = 0.5537		
Total	145.215146	580	.250370942	R-squared = 0.0036		
				Adj R-squared = -0.0016		
				Root MSE = .50076		

  

agr_hh	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	.0819946	.0806478	1.02	0.310	-.0764043	.2403936
in_HF	.056118	.0630453	0.89	0.374	-.0677083	.1799443
build_HF	-.0440185	.094847	-0.46	0.643	-.230306	.142269
_cons	.4457831	.0549658	8.11	0.000	.3378256	.5537406

176 reg wage\_hh build in\_HF build\_HF

Source	SS	df	MS	Number of obs = 581		
Model	.408630159	3	.136210053	F(3, 577) = 0.55		
Residual	143.133539	577	.248065058	Prob > F = 0.6489		
Total	143.542169	580	.247486498	R-squared = 0.0028		
				Adj R-squared = -0.0023		
				Root MSE = .49806		

  

wage_hh	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	-.0301205	.0802127	-0.38	0.707	-.187665	.1274241
in_HF	.0478263	.0627053	0.76	0.446	-.0753321	.1709847
build_HF	.004321	.0943354	0.05	0.963	-.1809617	.1896036
_cons	.5301205	.0546693	9.70	0.000	.4227453	.6374956

177 reg tttotal\_earnings build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	578
Model	4712879.03	3	1570959.68	F(3, 574)	=	0.34
Residual	2.6380e+09	574	4595843.71	Prob > F	=	0.7951
				R-squared	=	0.0018
				Adj R-squared	=	-0.0034
Total	2.6427e+09	577	4580116.41	Root MSE	=	2143.8

  

tttotal_ear~s	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
build	297.1981	345.2575	0.86	0.390	-380.9241 975.3204
in_HF	207.9491	270.1485	0.77	0.442	-322.651 738.5492
build_HF	-407.733	406.4244	-1.00	0.316	-1205.993 390.5273
_cons	906.0241	235.3117	3.85	0.000	443.847 1368.201

178

179 // Farming

180 reg tMaiz\_harvest build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	575
Model	558.190549	3	186.063516	F(3, 571)	=	2.12
Residual	49997.5486	571	87.5613811	Prob > F	=	0.0960
				R-squared	=	0.0110
				Adj R-squared	=	0.0058
Total	50555.7391	574	88.0762006	Root MSE	=	9.3574

  

tMaiz_harv~t	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
build	-1.283133	1.507013	-0.85	0.395	-4.243097 1.676832
in_HF	-.3877837	1.180822	-0.33	0.743	-2.707069 1.931502
build_HF	3.258154	1.775098	1.84	0.067	-.228365 6.744673
_cons	2.783133	1.027111	2.71	0.007	.7657564 4.800509

181 reg tFrijoles\_harvest build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	580
Model	37.3729791	3	12.4576597	F(3, 576)	=	0.45
Residual	16091.0662	576	27.9358789	Prob > F	=	0.7203
				R-squared	=	0.0023
				Adj R-squared	=	-0.0029
Total	16128.4392	579	27.8556809	Root MSE	=	5.2854

  

tFrijoles_~t	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
build	.7838019	.8512198	0.92	0.358	-.8880713 2.455675
in_HF	.0079325	.6657344	0.01	0.990	-1.299631 1.315496
build_HF	-.7581029	1.001292	-0.76	0.449	-2.724732 1.208526
_cons	1.493976	.5801524	2.58	0.010	.3545037 2.633448

182 reg Staples\_anyplant build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	581
Model	.216962692	3	.072320897	F(3, 577)	=	0.31
Residual	133.032607	577	.230559111	Prob > F	=	0.8155
				R-squared	=	0.0016
				Adj R-squared	=	-0.0036
Total	133.24957	580	.229740637	Root MSE	=	.48017

Staples_an~t	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	.0533802	.0773307	0.69	0.490	-.0985037	.2052641
in_HF	-.0071923	.0604522	-0.12	0.905	-.1259255	.111541
build_HF	-.0336223	.0909459	-0.37	0.712	-.2122477	.145003
_cons	.3493976	.052705	6.63	0.000	.2458805	.4529147

183 reg tintermed\_spend build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	575
Model	2584295.66	3	861431.886	F(3, 571)	=	0.18
Residual	2.7412e+09	571	4800776.38	Prob > F	=	0.9103
				R-squared	=	0.0009
				Adj R-squared	=	-0.0043
Total	2.7438e+09	574	4780187.47	Root MSE	=	2191.1

tintermed_~d	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	124.819	355.1938	0.35	0.725	-572.8268	822.4647
in_HF	-82.31006	277.3803	-0.30	0.767	-627.1203	462.5001
build_HF	-44.42452	417.5822	-0.11	0.915	-864.6091	775.76
_cons	962.1951	241.9629	3.98	0.000	486.9492	1437.441

184 reg I\_intermed build in\_HF build\_HF

Source	SS	df	MS	Number of obs	=	581
Model	.289135977	3	.096378659	F(3, 577)	=	0.39
Residual	143.029281	577	.247884368	Prob > F	=	0.7611
				R-squared	=	0.0020
				Adj R-squared	=	-0.0032
Total	143.318417	580	.247100718	Root MSE	=	.49788

I_intermed	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
build	-.0068608	.0801835	-0.09	0.932	-.1643479	.1506264
in_HF	.0504375	.0626824	0.80	0.421	-.072676	.173551
build_HF	-.0053625	.094301	-0.06	0.955	-.1905777	.1798526
_cons	.4096386	.0546494	7.50	0.000	.3023025	.5169746

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194 \* Supp B.5: rainfall and flooding \*

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197 use "Final\_HF\_Pr.dta", clear

198 merge m:1 community week using "RainData\_To\_Merge\_pr.dta"

Result	# of obs.	
not matched	555	
from master	0	( _merge==1)
from using	555	( _merge==2)
matched	6,756	( _merge==3)



Fixed-effects (within) regression	Number of obs	=	<b>465</b>
Group variable: <b>cocode</b>	Number of groups	=	<b>15</b>
R-sq:	Obs per group:		
within = <b>0.1025</b>	min =		<b>22</b>
between = <b>0.0748</b>	avg =		<b>31.0</b>
overall = <b>0.0843</b>	max =		<b>33</b>
	F(1, 449)	=	<b>51.30</b>
corr(u i, Xb) = <b>-0.1243</b>	Prob > F	=	<b>0.0000</b>

flood	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
rain	<b>.0044774</b>	<b>.0006251</b>	<b>7.16</b>	<b>0.000</b>	<b>.0032489</b>	<b>.005706</b>
_cons	<b>.1016035</b>	<b>.0219897</b>	<b>4.62</b>	<b>0.000</b>	<b>.0583879</b>	<b>.144819</b>
sigma_u	<b>.10042841</b>					
sigma_e	<b>.37534645</b>					
rho	<b>.06680673</b>	(fraction of variance due to u_i)				

F test that all u\_i=0: F(14, 449) = **2.19** Prob > F = **0.0075**

227 xtreg flood z\_rain, fe

Fixed-effects (within) regression  
Group variable: **ccode**

Number of obs = **465**  
Number of groups = **15**

R-sq:  
within = **0.0109**  
between = **0.0740**  
overall = **0.0124**

Obs per group:  
min = **22**  
avg = **31.0**  
max = **33**

corr(u\_i, Xb) = **0.0374**

F(1, 449) = **4.93**  
Prob > F = **0.0269**

flood	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
z_rain	<b>.0378971</b>	<b>.0170696</b>	<b>2.22</b>	<b>0.027</b>	<b>.0043508</b>	<b>.0714434</b>
_cons	<b>.2099922</b>	<b>.0190747</b>	<b>11.01</b>	<b>0.000</b>	<b>.1725055</b>	<b>.2474789</b>
sigma_u	<b>.08664361</b>					
sigma_e	<b>.39405233</b>					
rho	<b>.04611694</b>	(fraction of variance due to u_i)				

F test that all u\_i=0: F(14, 449) = **1.46** Prob > F = **0.1238**

228 xtreg flood rain2sig, fe

Fixed-effects (within) regression  
Group variable: **ccode**

Number of obs = **465**  
Number of groups = **15**

R-sq:  
within = **0.0014**  
between = **0.2005**  
overall = **0.0027**

Obs per group:  
min = **22**  
avg = **31.0**  
max = **33**

corr(u\_i, Xb) = **0.0694**

F(1, 449) = **0.63**  
Prob > F = **0.4287**

flood	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
rain2sig	<b>-.0893173</b>	<b>.1127538</b>	<b>-0.79</b>	<b>0.429</b>	<b>-.310908</b>	<b>.1322735</b>
_cons	<b>.2003465</b>	<b>.0186296</b>	<b>10.75</b>	<b>0.000</b>	<b>.1637345</b>	<b>.2369585</b>
sigma_u	<b>.08734709</b>					
sigma_e	<b>.39593278</b>					
rho	<b>.04641042</b>	(fraction of variance due to u_i)				

F test that all u\_i=0: F(14, 449) = **1.47** Prob > F = **0.1202**

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230 xtreg flood\_days rain, fe

Fixed-effects (within) regression  
Group variable: **ccode**

Number of obs = **465**  
Number of groups = **15**

R-sq:

within = **0.0647**  
between = **0.0127**  
overall = **0.0545**

Obs per group:

min = **22**  
avg = **31.0**  
max = **33**

corr(u\_i, Xb) = **-0.0881**

F(1, 449) = **31.05**  
Prob > F = **0.0000**

flood_days	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
rain	<b>.020484</b>	<b>.0036763</b>	<b>5.57</b>	<b>0.000</b>	<b>.0132591</b>	<b>.0277089</b>
_cons	<b>.5248781</b>	<b>.1293195</b>	<b>4.06</b>	<b>0.000</b>	<b>.2707314</b>	<b>.7790248</b>
sigma_u	<b>.5640148</b>					
sigma_e	<b>2.2073806</b>					
rho	<b>.06128581</b>	(fraction of variance due to u_i)				

F test that all u\_i=0: F(14, 449) = **1.99**Prob > F = **0.0171**

231 xtreg flood\_days z\_rain, fe

Fixed-effects (within) regression  
Group variable: **ccode**

Number of obs = **465**  
Number of groups = **15**

R-sq:

within = **0.0048**  
between = **0.1214**  
overall = **0.0065**

Obs per group:

min = **22**  
avg = **31.0**  
max = **33**

corr(u\_i, Xb) = **0.0538**

F(1, 449) = **2.18**  
Prob > F = **0.1409**

flood_days	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
z_rain	<b>.1454971</b>	<b>.0986316</b>	<b>1.48</b>	<b>0.141</b>	<b>-.0483398</b>	<b>.339334</b>
_cons	<b>1.011816</b>	<b>.110217</b>	<b>9.18</b>	<b>0.000</b>	<b>.7952109</b>	<b>1.228421</b>
sigma_u	<b>.52360598</b>					
sigma_e	<b>2.2769082</b>					
rho	<b>.05022708</b>	(fraction of variance due to u_i)				

F test that all u\_i=0: F(14, 449) = **1.57**Prob > F = **0.0846**

232 xtreg flood\_days rain2sig, fe

Fixed-effects (within) regression  
Group variable: **ccode**

Number of obs = **465**  
Number of groups = **15**

R-sq:

within = **0.0007**  
between = **0.1125**  
overall = **0.0015**

Obs per group:

min = **22**  
avg = **31.0**  
max = **33**

corr(u\_i, Xb) = **0.0550**

F(1, 449) = **0.34**  
Prob > F = **0.5619**

flood_days	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
rain2sig	-.3771684	.649744	-0.58	0.562	-1.654085	.8997484
_cons	.9757416	.1073529	9.09	0.000	.764765	1.186718
sigma_u	.52966125					
sigma_e	2.2815631					
rho	.05113697	(fraction of variance due to u_i)				

F test that all u\_i=0: F(14, 449) = 1.60

Prob > F = 0.0762

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236 log close

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