

**\*\*Data accessed originally from: <http://users.ox.ac.uk/~ball0144/research.htm>**

**\*\*These files create the results and figures reported in Finding Pathways, Chapter7**

set more off

**\*\*Creating Figure 7.1**

histogram sxp, percent

set more off

**\*\* To compute the difference in predicted probability with and without the key independent variable: primary resource exports**

**\*\*\* Begin with a Replication of Table 3, column 1 from Collier and Hoeffler, Guns and Grievance**

logit warsa c.sxp##c.sxp coldwar secm gyl peace prevwar mount geogia frac lnpop

**\*\*predict probability of war for each case**

predict warSXP

**\*\*estimate the same regression, but WITHOUT the primary exports variable**

logit warsa coldwar secm gyl peace prevwar mount geogia frac lnpop

**\*\*predict probability of war for each case using the prior regression**

predict warwoSXP

**\*\*Generate our measure of Expected Relationship; the difference between the predicted probability with and without the key explanatory variable**

**\*\* positive values will mean that the probability was higher with the key variable than without it.**

gen diffwarSXPwoSXP = warSXP-warwoSXP

**\*\* Using the data we can now create the relevant figures used in case selection**

twoway (scatter diffwarSXPwoSXP sxp if sxp<1 & warsa==1, msymbol(x) legend(off)) ///

(scatter diffwarSXPwoSXP sxp if sxp<1 & warsa==0) ///

```

(scatter diffwarSXPwoSXP sxp if warsa==1 & country_lower=="Angola" & year==1975,
mlabel(country_year) msymbol(x)) ///

(scatter diffwarSXPwoSXP sxp if warsa==1 & country_lower=="Indonesia" & year==1975,
mlabel(country_year) msymbol(x)) ///

(scatter diffwarSXPwoSXP sxp if warsa==1 & country_lower=="Congo" & year==1995,
mlabel(country_year) msymbol(x)) ///

(scatter diffwarSXPwoSXP sxp if warsa==1 & country_lower=="Peru" & year==1980,
mlabel(country_year) msymbol(x)) ///

(scatter diffwarSXPwoSXP sxp if warsa==1 & country_lower=="Sierra Leone" & year==1990,
mlabel(country_year) msymbol(x)) ///

(scatter diffwarSXPwoSXP sxp if warsa==1 & country_lower=="Colombia" & year==1980,
mlabel(country_year) msymbol(x)) ///

(scatter diffwarSXPwoSXP sxp if warsa==1 & country_lower=="Sudan" & year==1980,
mlabel(country_year) msymbol(x)) ///

(scatter diffwarSXPwoSXP sxp if warsa==1 & country_lower=="Myanmar/Burma" & year==1980,
mlabel(country_year) msymbol(x))

```

\*\*\* Replication of Table 3, column 1 from Collier and Hoeffler, Guns and Grievance  
logit warsa c.sxp##c.sxp coldwar secgm gyl peace prevwar mount geogia frac lnpop

\*note that the regression above uses a different syntax, but estimates the same  
regression they did. I use an interaction term to take account of the squared stuff

\*\*to compute the marginal effects:

```

margins, at(sxp=(.002 .05 .1 .15 .2 .25 .3 .35 .4 .45 .5 .55 .6 .65 .7 .75 .8 .85 .9 .95
1.0)) atmeans vsquish post

```

```

marginsplot
marginsplot, noci

```

\*Now, let's graph the effects

```
mat t=J(21,3,.)
```

```

mat a = (.002\.05\.1\.15\.2\.25\.30\.35\.40\.45\.5\.55\.6\.65\.7\.75\.8\.85\.9\.95\1)
/* get the 11 "at" values */

```

```

forvalues i=1/21 {
    mat t[`i',1] = _b[`i'._at] /* get probability estimates */
    mat t[`i',2] = _b[`i'._at] - 1.96*_se[`i'._at] /* compute lower limit */
    mat t[`i',3] = _b[`i'._at] + 1.96*_se[`i'._at] /* compute upper limit */
}

```

```

mat t=t,a /* horizontal concatenation */
mat colnames t = prob 1l ul at /* fix column names */
svmat t, names(col) /* save matrix as data */

```

```

twoway (rarea 1l ul at)(line prob at), legend(off) ///
       xtitle(sxp) ytitle(probability) scheme(lean1)

```

```

clear

**      TO COMPUTE THE SAME EFFECTS BUT AT MEDIAN VALUES OF Xs
use "/Users/nicholasweller/Dropbox/Weller Files/BarLer/Replication Material/Chapter
7/Chapter7replication.dta"

logit warsa c.sxp##c.sxp coldwar secm gyl peace prevwar mount geogia frac lnpop

*note that the regression above uses a different syntax, but estimates the same
regression they did. I use an interaction term to take account of the squared stuff

**to compute the marginal effects:

    margins, at(sxp=(.002 .05 .1 .15 .2 .25 .3 .35 .4 .45 .5 .55 .6 .65 .7 .75 .8 .85 .9 .95
1.0)) at((median) _all) vsquish post

*Now, let's graph the effects

mat t=J(21,3,.)

mat a = (.002\.05\.1\.15\.2\.25\.30\.35\.40\.45\.5\.55\.6\.65\.7\.75\.8\.85\.9\.95\1)
/* get the 11 "at" values      */

forvalues i=1/21 {
    mat t[`i',1] = _b[`i'._at] /* get probability estimates */
    mat t[`i',2] = _b[`i'._at] - 1.96*_se[`i'._at] /* compute lower limit */
    mat t[`i',3] = _b[`i'._at] + 1.96*_se[`i'._at] /* compute upper limit */
}

mat t=t,a /* horizontal concatenation */
mat colnames t = prob ll ul at /* fix column names */
svmat t, names(col) /* save matrix as data */

twoway (rarea ll ul at)(line prob at), legend(off) ///
      xtitle(sxp) ytitle(probability) scheme(lean1)

clear

*BELOW COMPUTES MARGINAL EFFECTS WITH Xs SET AT 25TH PERCENTILE

use "/Users/nicholasweller/Dropbox/Weller Files/BarLer/Replication Material/Chapter
7/Chapter7replication.dta"

logit warsa c.sxp##c.sxp coldwar secm gyl peace prevwar mount geogia frac lnpop

*note that the regression above uses a different syntax, but estimates the same
regression they did. I use an interaction term to take account of the squared stuff

**to compute the marginal effects:

    margins, at(sxp=(.002 .05 .1 .15 .2 .25 .3 .35 .4 .45 .5 .55 .6 .65 .7 .75 .8 .85 .9 .95
1.0)) at((p25) _all) vsquish post

*Now, let's graph the effects

mat t=J(21,3,.)

mat a = (.002\.05\.1\.15\.2\.25\.30\.35\.40\.45\.5\.55\.6\.65\.7\.75\.8\.85\.9\.95\1)
/* get the 11 "at" values      */

forvalues i=1/21 {
    mat t[`i',1] = _b[`i'._at] /* get probability estimates */

```

```

    mat t[`i',2] = _b[`i'._at] - 1.96*_se[`i'._at] /* compute lower limit */
    mat t[`i',3] = _b[`i'._at] + 1.96*_se[`i'._at] /* compute upper limit */
}

mat t=t,a /* horizontal concatenation */
mat colnames t = prob ll ul at /* fix column names */
svmat t, names(col) /* save matrix as data */

twoway (rarea ll ul at)(line prob at), legend(off) ///
       xtitle(sxp) ytitle(probability) scheme(lean1)

clear

**BELOW PROVIDES MARGINAL EFFECTS AT 75TH PERCENTILE
use "/Users/nicholasweller/Dropbox/Weller Files/BarLer/Replication Material/Chapter
7/Chapter7replication.dta"

logit warsa c.sxp##c.sxp coldwar secm gyl peace prevwar mount geogia frac lnpop

*note that the regression above uses a different syntax, but estimates the same
regression they did. I use an interaction term to take account of the squared stuff

**to compute the marginal effects:

margins, at(sxp=(.002 .05 .1 .15 .2 .25 .3 .35 .4 .45 .5 .55 .6 .65 .7 .75 .8 .85 .9 .95
1.0)) at((p75) _all) vsquish post

*Now, let's graph the effects

mat t=J(21,3,..)

mat a = (.002\.05\.1\.15\.2\.25\.30\.35\.40\.45\.5\.55\.6\.65\.7\.75\.8\.85\.9\.95\1)
/* get the 11 "at" values */

forvalues i=1/21 {
    mat t[`i',1] = _b[`i'._at] /* get probability estimates */
    mat t[`i',2] = _b[`i'._at] - 1.96*_se[`i'._at] /* compute lower limit */
    mat t[`i',3] = _b[`i'._at] + 1.96*_se[`i'._at] /* compute upper limit */
}

mat t=t,a /* horizontal concatenation */
mat colnames t = prob ll ul at /* fix column names */
svmat t, names(col) /* save matrix as data */

twoway (rarea ll ul at)(line prob at), legend(off) ///
       xtitle(sxp) ytitle(probability) scheme(lean1)

clear

```