

Frankel-replicate

Table 4a in JIMF 2014

```
#install.packages("foreign")
#install.packages("stargazer")
#install.packages("tidyverse")
#install.packages("broom")

library(foreign)
library(stargazer)

##
## Please cite as:

## Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.

## R package version 5.2.2. https://CRAN.R-project.org/package=stargazer

library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.0 --

## v ggplot2 3.2.1      v purrr  0.3.3
## v tibble  2.1.3      v dplyr  0.8.3
## v tidyr   1.0.0      v stringr 1.4.0
## v readr   1.3.1      v forcats 0.4.0

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

library(broom)

mydata <- read.dta("data-frankel/Appendix NoCE/Individual Commodities Dataset.dta")

mydata %>%
  group_by(commodity) %>%
  mutate(trend = year - 1983) %>%
  do(tidy(lm(log(sp) ~ real_int_gdpcpi + lnrgdp_world + linvent + spread + sdsp_lag + trend, data = .,
  print.data.frame()
```

##	commodity	term	estimate	std.error	statistic
## 1	Copper	(Intercept)	-7.9247165574	20.244045443	-0.39145914
## 2	Copper	real_int_gdpcpi	-0.0271662434	0.016140381	-1.68312282
## 3	Copper	lnrgdp_world	0.4794166829	0.651689611	0.73565187
## 4	Copper	linvent	-0.2002902155	0.054123391	-3.70062206
## 5	Copper	spread	-0.0012290218	0.001932537	-0.63596276
## 6	Copper	sdsp_lag	2.9299189992	0.593643396	4.93548655
## 7	Copper	trend	0.0065737959	0.021471744	0.30616032
## 8	Corn	(Intercept)	-42.8664125430	22.434768294	-1.91071341
## 9	Corn	real_int_gdpcpi	-0.0372789235	0.026449580	-1.40943348
## 10	Corn	lnrgdp_world	1.3528825808	0.747332430	1.81028218
## 11	Corn	linvent	0.1977599437	0.173387249	1.14056798
## 12	Corn	spread	-0.0065905983	0.003555215	-1.85378359
## 13	Corn	sdsp_lag	0.9808791907	0.748528170	1.31041052
## 14	Corn	trend	-0.0332277536	0.023986913	-1.38524508
## 15	Cotton	(Intercept)	-24.2456476618	24.817481365	-0.97695843
## 16	Cotton	real_int_gdpcpi	0.0477347028	0.018598332	2.56661207
## 17	Cotton	lnrgdp_world	1.0341376102	0.780405511	1.32512853
## 18	Cotton	linvent	-0.3455512810	0.200145642	-1.72649915
## 19	Cotton	spread	-0.0003863823	0.001339555	-0.28844084
## 20	Cotton	sdsp_lag	0.6142935629	0.608295097	1.00986111
## 21	Cotton	trend	-0.0092424143	0.028059665	-0.32938435
## 22	Live_cattle	(Intercept)	-55.6563865659	48.541566404	-1.14657171
## 23	Live_cattle	real_int_gdpcpi	-0.0371736846	0.016260224	-2.28617295
## 24	Live_cattle	lnrgdp_world	1.7972753002	1.394742846	1.28860693
## 25	Live_cattle	linvent	0.4280445919	0.684516480	0.62532401
## 26	Live_cattle	spread	-0.0057879825	0.001977622	-2.92673871
## 27	Live_cattle	sdsp_lag	-0.1263091212	0.818900321	-0.15424236
## 28	Live_cattle	trend	-0.0399885435	0.039871198	-1.00294311
## 29	Live_hog	(Intercept)	68.4316318115	38.181820157	1.79225693
## 30	Live_hog	real_int_gdpcpi	-0.0068642500	0.010603291	-0.64736974
## 31	Live_hog	lnrgdp_world	-2.0924509192	1.263499786	-1.65607540
## 32	Live_hog	linvent	-0.0424401690	0.333377529	-0.12730363
## 33	Live_hog	spread	-0.0042574727	0.001064712	-3.99870958
## 34	Live_hog	sdsp_lag	-1.2239415388	0.507277892	-2.41276341
## 35	Live_hog	trend	0.0744119290	0.037406192	1.98929443
## 36	Oats	(Intercept)	-78.0291077783	21.764594373	-3.58513954
## 37	Oats	real_int_gdpcpi	-0.0030249214	0.018849304	-0.16047921
## 38	Oats	lnrgdp_world	2.7141588466	0.733817146	3.69868551
## 39	Oats	linvent	-0.3922472669	0.146936407	-2.66950360
## 40	Oats	spread	-0.0034983692	0.002680980	-1.30488451
## 41	Oats	sdsp_lag	1.2283849601	0.699156146	1.75695368
## 42	Oats	trend	-0.0868890979	0.027617615	-3.14614774
## 43	Petroleum	(Intercept)	144.5822471164	147.545109433	0.97991894
## 44	Petroleum	real_int_gdpcpi	-0.0163455705	0.067274394	-0.24296868
## 45	Petroleum	lnrgdp_world	-4.0000350299	5.104242054	-0.78366876
## 46	Petroleum	linvent	-2.3821157767	3.932544049	-0.60574421
## 47	Petroleum	spread	-0.0017282299	0.004287015	-0.40313128
## 48	Petroleum	sdsp_lag	-0.0791145928	1.144689884	-0.06911443
## 49	Petroleum	trend	0.1792610252	0.145678995	1.23052075
## 50	Platinum	(Intercept)	-127.2911678914	32.190843805	-3.95426627
## 51	Platinum	real_int_gdpcpi	0.1043364935	0.020562589	5.07409314
## 52	Platinum	lnrgdp_world	4.3678031249	1.055907131	4.13654099
## 53	Platinum	linvent	-0.2003329487	0.039494665	-5.07240538

## 54	Platinum	spread	-0.0010066317	0.001385244	-0.72668211
## 55	Platinum	sdsp_lag	1.2081074011	0.589170245	2.05052345
## 56	Platinum	trend	-0.1112474231	0.036278100	-3.06651738
## 57	Silver	(Intercept)	-171.0938787477	62.856599172	-2.72197161
## 58	Silver	real_int_gdpcpi	0.0143684562	0.028312259	0.50749946
## 59	Silver	lnrgdp_world	5.6368791494	2.048979415	2.75106675
## 60	Silver	linvent	-0.0367812116	0.113701948	-0.32348796
## 61	Silver	spread	-0.0095671885	0.003894777	-2.45641470
## 62	Silver	sdsp_lag	5.2679800906	0.746540479	7.05652304
## 63	Silver	trend	-0.1443871669	0.062401406	-2.31384479
## 64	Soybeans	(Intercept)	-64.6711932796	31.286131550	-2.06708820
## 65	Soybeans	real_int_gdpcpi	-0.0071973555	0.019446496	-0.37011066
## 66	Soybeans	lnrgdp_world	2.1476263446	1.037624714	2.06975250
## 67	Soybeans	linvent	0.0544985863	0.113329959	0.48088420
## 68	Soybeans	spread	-0.0053699735	0.003171630	-1.69312749
## 69	Soybeans	sdsp_lag	1.8516995459	0.699691619	2.64645094
## 70	Soybeans	trend	-0.0541420821	0.031098007	-1.74101455
## 71	Wheat	(Intercept)	-34.2789903719	22.323043569	-1.53558767
## 72	Wheat	real_int_gdpcpi	0.0269351053	0.023119530	1.16503690
## 73	Wheat	lnrgdp_world	1.2737903517	0.761574658	1.67257450
## 74	Wheat	linvent	-0.3238222077	0.261668487	-1.23752849
## 75	Wheat	spread	-0.0006354718	0.003081851	-0.20619805
## 76	Wheat	sdsp_lag	1.7392716858	0.694710516	2.50359199
## 77	Wheat	trend	-0.0200621144	0.023875753	-0.84027150
##	p.value				
## 1	0.6973910892199				
## 2	0.0995993723491				
## 3	0.4659365834723				
## 4	0.0006070127386				
## 5	0.5281712885740				
## 6	0.0000125006826				
## 7	0.7609600772714				
## 8	0.0625709732990				
## 9	0.1657360913518				
## 10	0.0770845193656				
## 11	0.2602201029097				
## 12	0.0704817176260				
## 13	0.1968564781361				
## 14	0.1729605880531				
## 15	0.3339307790861				
## 16	0.0137488685827				
## 17	0.1919689344723				
## 18	0.0912737164581				
## 19	0.7743638023689				
## 20	0.3180832588060				
## 21	0.7434280817393				
## 22	0.2624145933554				
## 23	0.0309867619370				
## 24	0.2093327994830				
## 25	0.5374252794505				
## 26	0.0071951608157				
## 27	0.8786570650677				
## 28	0.3254976908800				
## 29	0.0825517532647				

```

## 30 0.5220101407120
## 31 0.1074818457018
## 32 0.8994967060579
## 33 0.0003515063148
## 34 0.0217367761523
## 35 0.0552739406148
## 36 0.0008546996877
## 37 0.8732551475207
## 38 0.0006105286709
## 39 0.0106753227273
## 40 0.1988724755770
## 41 0.0860446938463
## 42 0.0030005674215
## 43 0.3377800296064
## 44 0.8102806870418
## 45 0.4415904259761
## 46 0.5508835175651
## 47 0.6907426658194
## 48 0.9455228955991
## 49 0.2314973537406
## 50 0.0003051043121
## 51 0.0000093471847
## 52 0.0001758487699
## 53 0.0000093977145
## 54 0.4716521858398
## 55 0.0469054996441
## 56 0.0038725103577
## 57 0.0098365884011
## 58 0.6148163247089
## 59 0.0091415324060
## 60 0.7481470790530
## 61 0.0188476708298
## 62 0.0000000238371
## 63 0.0263346892505
## 64 0.0450783984594
## 65 0.7132051423568
## 66 0.0448155944793
## 67 0.6331551569218
## 68 0.0980174147224
## 69 0.0114854392726
## 70 0.0891813649620
## 71 0.1317998807904
## 72 0.2502815356154
## 73 0.1015081514859
## 74 0.2224544776478
## 75 0.8375873727579
## 76 0.0160774219864
## 77 0.4052991476684

```

```

mydata_PriceEquation <- read.dta("data-frankel/Appendix NoCE/Price Equation Dataset.dta")
mydata_InventoryEquation <- read.dta("data-frankel/Appendix NoCE/Price Equation Dataset.dta")

```