Data Management & Analysis Final Project

Replication and Extention for Acemoglu, Naidu, Restrepo and Robinson (2019)

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0.1 Setup

```
pacman::p_load(
  rmdformats,
  knitr,
  tinytex,
  haven,
  tidyverse,
  kableExtra,
 plm,
  texreg
options(max.print = "75")
opts_chunk$set(
  fig.align = "center",
  echo = TRUE,
  cache = TRUE,
  prompt = FALSE,
  tidy = FALSE,
  comment = NA,
  message = FALSE,
  warning = FALSE
opts knit$set(width = 75)
```

1 About this Report

1.1 Project Type

In this report, we replicate and extend the previous paper. The paper we replicate is Acemoglu, D., Naidu, S., Restrepo, P., & Robinson, J. A. (2019). "Democracy Does Cause Growth." *Journal of Political Economy*, 127(1), 47–100. https://doi.org/10.1086/700936.

We try to replicate Figure 1, Table 1, Table 2 and Table 6 in the paper, which are especially critical results in the paper. We also try several extension approaches using the bootstrap method. In appendix, we replicate Arellano Bond Estimation for Table 2 because we failed to replicate due to several limitations.

1.2 Summary of the Paper (Honoka Otani)

1.2.1 What the problem is

The authors attempted to provide a clear answer to the widely divergent topic of opinion on the causal relationship between democracy and economic growth. At the time of writing, there was a widely shared view that democracy has no relation to, or rather a negative effect on, economic growth.

On the other hand, there were empirical studies that showed a positive effect of democracy on economic growth, but they did not adequately address the endogeneity issue between political regimes and economic growth.

This paper points to four main challenges in estimating the causal relationship between democracy and economic growth. First, existing democracy indicators are subject to measurement error and changes in scores may not accurately reflect actual changes in political regimes. Second, there are institutional, historical

and cultural differences between democracies and nondemocracies that also affect economic growth, which may introduce bias in the analysis. Third, democratization tends to occur after a temporary drop in GDP, which can bias estimates if not captured correctly in the model. Fourth, democratization and economic growth may be affected by common external factors, making it difficult to identify causality.

1.2.2 Why it is important

Demonstrating the causal relationship between democracy and economic growth has important implications for both political and economic development strategies. If democracy has a positive effect on economic growth, it provides an incentive to promote democratization across the world. It would also provide important hints to each country seeking to achieve economic growth. By providing empirical evidence, this study contributes to the competing debate on governance and economic growth.

1.2.3 How you solve the problem

To address the problem of measurement error in democracy indicators, the authors introduced a new democracy indicator by integrating several existing measurement methods.

For other endogeneity problems, the authors employed three empirical strategies.

First, a dynamic (linear) panel model is used to control for country fixed effects and autoregressive GDP dynamics. By including lags of GDP per capita, this model accounts for the pre-democratization dip in GDP, ensuring that countries transitioning to democracy are not on a different GDP trend compared to other countries with similar past GDP levels.

Second, they adopted a propensity score reweighting strategy semiparametric treatment effects framework which democratization influences the distribution of potential GDP in all subsequent years. This method models the selection into democracy as a function of observable factors, particularly past GDP, without relying on a fully parametric GDP model. This approach increases flexibility in estimating how democracy influences GDP over time.

Third, they applied an instrumental variables (IV) method, using regional waves of democratization as an instrument for a country's transition to democracy. Since democratizations often occur in regional clusters, this method isolates exogenous variation in democracy that is not directly related to a country's own economic conditions. By leveraging this external source of variation, the IV approach strengthens the identification of the causal effect of democracy on GDP.

As for extension part, in order to visualize the uncertainty of the long-term impact of democratization on economic growth, we estimate the confidence interval of the ATT estimate using the bootstrap method based on the event study in Figure 1.

1.2.4 What we find

The findings of this paper demonstrate that democracy has a significant positive effect on GDP per capita. A country that transitions from nondemocracy to democracy experiences a long-run increase in GDP per capita of approximately 20–25% over the next 25 years. This effect is robust across different three strategies.

Furthermore, the analysis shows that the effect does not depend on a country's initial level of development, however, the effect is stronger in countries with higher levels of secondary education.

The authors also suggest several channels through which democracy promotes economic growth. They showed that democracy increases economic reforms, tax revenue (as a percentage of GDP). And enrollment in primary and secondary education and reduces child mortality rate. They also found the possibility that democracy promotes investment and open trade, and reduces social unrest.

Overall, the findings of this study strongly support the claim that democracy causes economic growth. This effect is primarily driven by democracy's ability to increase investment, improve human capital through education and healthcare, and strengthen governance structures, while also contributing to greater political stability and reduced social unrest. These results challenge the notion that democracy is a hindrance to economic growth and instead emphasize its role in fostering sustainable and inclusive economic growth.

As for extension part, we found that the long-term impact of democratization on economic growth is quite uncertain.

1.3 Data (Shoya Abe)

We use data obtained from the replication files available in the data archive on Professor Daron Acemoglu's homepage. This dataset consists of a large panel of 175 countries from 1960 to 2010. The sample size is 9,384, and the number of variables is 1,177. A list of variables is provided in the appendix.

```
data <- read_dta("data/raw/DDCGdata_final.dta")

summarize_data <- function(data, n = 10) {
   cat("Sample size (number of rows):", nrow(data), "\n")
   cat("Number of variables (columns):", ncol(data), "\n")
}

summarize_data(data)</pre>
```

```
Sample size (number of rows): 9384
Number of variables (columns): 1177
```

1.4 Empirical Methods (Shoya Abe)

We briefly explain the empirical methods we use for our replication. The original paper used a number of empirical methods to strengthen the robustness of the results. Among them, we replicate three main strategy below¹.

1.4.1 Event Study (Figure.1)

First, we conduct the event study. We estimate the average treatment effect (ATT) for the treated group using the procedure described below.

First, let T_c denote the year in which a given country experienced the democratization event. For any country c and year t, we define the relative year as

$$\tau_{c,t} = t - T_c. \tag{1}$$

Then, taking the outcome y in the year immediately preceding democratization (i.e., when $\tau = -1$) as the baseline, the outcome of interest is defined as

$$gdpDiff_{c,t} = y_{c,t} - y_{c,T_c-1}.$$
(2)

¹We also worked on Arellano Bond estimation in table.2. However, it took an enormous amount of computation time and the results obtained were quite different from the original results. In other words, replication failed. However, in the belief that it is desirable to disclose the entire analysis process and results, we disclose the analysis code and results in the appendix.

Next, we estimate the following regression model using the control group that did not experience democratization:

$$gdpDiff_{c,t} = \sum_{\tau = -15, \ \tau \neq -1}^{30} \beta_{\tau} \mathbf{1} \{ \tau_{c,t} = \tau \} + \epsilon_{c,t}.$$
(3)

The estimated coefficient $\hat{\beta}_{\tau_{c,t}}$ from (3) can be interpreted as the counterfactual outcome for country c in year t in the absence of democratization. Therefore, the average difference between the observed outcome and this counterfactual outcome provides an estimate of the ATT for relative year τ , which is calculated as

$$ATT(\tau) = \frac{1}{N_{\tau}^{\text{treated}}} \sum_{\substack{(c,t) \in \text{treated} \\ \tau_{c,t} = \tau}} \left(\text{gdpDiff}_{c,t} - \hat{\beta}_{\tau} \right). \tag{4}$$

1.4.2 Dynamic Liner Panel Model (Table.2)

Next, we estimate the following dynamic linear panel model.

$$y_{ct} = \beta D_{ct} + \gamma_1 y_{ct-1} + \alpha_c + \delta_t + \epsilon_{ct}, \tag{1}$$

$$y_{ct} = \beta D_{ct} + \sum_{j=1}^{2} \gamma_j y_{ct-j} + \alpha_c + \delta_t + \epsilon_{ct}, \tag{2}$$

$$y_{ct} = \beta D_{ct} + \sum_{j=1}^{4} \gamma_j y_{ct-j} + \alpha_c + \delta_t + \epsilon_{ct}, \tag{3}$$

$$y_{ct} = \beta D_{ct} + \sum_{j=1}^{8} \gamma_j y_{ct-j} + \alpha_c + \delta_t + \epsilon_{ct}, \tag{4}$$

where y_{ct} is the log of GDP per capita in country c at time t and D_{ct} is a dummy variable that takes the value 1 if country c is a democracy at time t and 0 otherwise.

1.4.3 Instrumental Variable (IV) Method (Table.6)

Finally, we adopt the instrumental variable (IV) method. The instrumental variables used in this analysis are as follows.

$$Z_{ct} = \frac{1}{|I_c|} \sum_{c^* \in I_c} D_{c^*t}.$$
 (5)

Using this instrumental variable, we conduct the following 2SLS estimation.

$$y_{ct} = \beta D_{ct} + \sum_{j=1}^{p} \gamma y_{ct-j} + \alpha_c + \delta_t + \epsilon_{ct}, \tag{5}$$

$$D_{ct} = \sum_{j=1}^{q} \pi_j Z_{ct-j} + \sum_{j=1}^{p} \phi_j y_{ct-j} + \theta_c + \mu_t + v_{ct}$$
(6)

2 Replication

2.1 Figure.1 (Shoya Abe)

2.1.1 Preprocessing

```
data_f1 <- data %>%
  rename(id = "_ID") %>%
  group_by(id) %>%
  arrange(year) %>%
  mutate(
    prev_dem = dplyr::lag(dem, 1),
    transition = case_when(
      dem == 1 & prev_dem == 0 ~ 1,
      dem == 0 & prev_dem == 0 ~ 0,
      TRUE ~ NA real
    ),
    lag1 = dplyr::lag(y, 1),
    lag2 = dplyr::lag(y, 2),
    lag3 = dplyr::lag(y, 3),
    lag4 = dplyr::lag(y, 4)
  ) %>%
  filter(
    !is.na(lag1) & !is.na(lag2) &
      !is.na(lag3) & !is.na(lag4)
  ) %>%
  ungroup()
for (t in -15:-2) {
  col_name <- paste0("gdpDiff_m", abs(t))</pre>
  data_f1 <- data_f1 %>%
    group_by(id) %>%
    arrange(year) %>%
    mutate(!!col_name := dplyr::lag(y, abs(t)) - lag1) %>%
    ungroup()
}
data_f1 <- data_f1 %>%
 mutate(
    gdpDiff_m1 = 0,
    gdpDiff_0 = y - lag1
for (t in 1:30) {
  col_name <- paste0("gdpDiff_p", t)</pre>
  data_f1 <- data_f1 %>%
    group_by(id) %>%
    arrange(year) %>%
    mutate(!!col_name := dplyr::lead(y, t) - lag1) %>%
    ungroup()
}
```

```
data_f1 <- data_f1 %>%
  filter(!is.na(transition))
```

2.1.2 Estimation

```
estimateATT <- function(outcome_col) {</pre>
  sub_data <- data_f1 %>%
    filter(!is.na(.data[[outcome_col]]), !is.na(transition))
  if (nrow(sub_data) == 0) return(NA)
  year_levels <- sort(unique(sub_data$year))</pre>
  sub_data <- sub_data %>%
    mutate(year_factor = factor(year, levels = year_levels))
  control_data <- sub_data %>%
    filter(transition == 0)
  treated_data <- sub_data %>%
    filter(transition == 1)
  if (nrow(control_data) < 2 ||</pre>
      length(unique(control_data$year)) < 2) return(NA)</pre>
  model_formula <- as.formula(</pre>
    paste(outcome_col, "~ year_factor - 1")
  control_model <- tryCatch(</pre>
    lm(model_formula, data = control_data),
    error = function(e) NULL
  if (is.null(control_model)) return(NA)
  predicted_outcomes <- tryCatch(</pre>
    predict(control model, newdata = treated data),
    error = function(e) rep(NA, nrow(treated_data))
  treatment_effects <- treated_data[[outcome_col]] - predicted_outcomes</pre>
  mean(treatment_effects, na.rm = TRUE)
}
relative times \leftarrow c(seq(-15, -1), seq(0, 30))
atets <- numeric(length(relative_times))</pre>
for (i in seq_along(relative_times)) {
  t_val <- relative_times[i]</pre>
  if (t_val < 0) {</pre>
    col_name <- paste0("gdpDiff_m", abs(t_val))</pre>
  } else {
    col_name \leftarrow if (t_val == 0) {
      "gdpDiff_0"
    } else {
      paste0("gdpDiff_p", t_val)
  }
  atets[i] <- estimateATT(col_name)</pre>
results_df <- data.frame(</pre>
```

```
RelativeTime = relative_times,
ATT = atets
)
```

2.1.3 Plot

```
figure_1 <- ggplot(results_df, aes(x = RelativeTime, y = ATT)) +
    geom_line(color = "black") +
    scale_x_continuous(breaks = seq(-15, 30, 5)) +
    labs(
        x = "Years around Democratization",
        y = "Change in GDP per capita (log points)"
    ) +
    theme_bw()

ggsave(
    "output/figure_1.pdf",
    width = 14,
    height = 8,
    units = "cm"
)</pre>
```

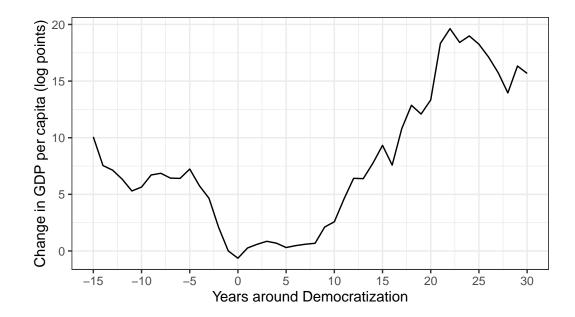


Figure 1: The Long-Term Impact of Democratization on Economic Growth

2.2 Table.1 (Honoka Otani)

2.2.1 Preprocessing

```
var_info <- tibble(</pre>
  var = c(
    "gdppercapitaconstant2000us",
    "loginvpc",
    "ltrade2",
    "lp_bl",
    "ls_bl",
    "lgov",
    "mortnew",
    "unrestn",
    "marketref"
  ),
  label = c(
    "GDP per capita",
    "Investment share of GDP",
    "Trade share of GDP",
    "Primary-school enrollment rate",
    "Secondary-school enrollment rate",
    "Tax revenue share of GDP",
    "Child mortality per 1,000 births",
    "Unrest rate",
    "Market reforms index (0-100)"
  )
)
data sub <- data %>%
 select(dem, all_of(var_info$var))
```

2.2.2 Caliculation

```
calc_stats <- function(variable) {</pre>
 non_demo <- data_sub %>%
    filter(dem == 0) %>%
    pull(.data[[variable]])
 non_demo <- non_demo[!is.na(non_demo)]</pre>
  demo <- data_sub %>%
    filter(dem == 1) %>%
    pull(.data[[variable]])
 demo <- demo[!is.na(demo)]</pre>
 tibble(
    var = variable,
    n_non_demo = length(non_demo),
    mean_non_demo = mean(non_demo),
    sd_non_demo = sd(non_demo),
   n_demo = length(demo),
   mean_demo = mean(demo),
    sd_demo = sd(demo)
 )
}
summary_table <- map_dfr(var_info$var, calc_stats) %>%
```

```
left_join(var_info, by = "var") %>%
select(label, n_non_demo, mean_non_demo, sd_non_demo, n_demo, mean_demo, sd_demo)
```

2.2.3 Tabulation

```
latex_table <- summary_table %>%
kbl(
    caption = "Summary Statistics by Democracy Status",
    format = "latex",
    booktabs = TRUE,
    digits = 2,
    col.names = c("", "N", "Mean", "SD", "N", "Mean", "SD")
) %>%
    add_header_above(c(" " = 1, "Nondemocracies" = 3, "Democracies" = 3)) %>%
    kable_styling(latex_options = c("HOLD_position", "striped"))
save_kable(latex_table, file = "output/table_1.tex")
```

Table 1: Summary Statistics by Democracy Status

	N	Nondemocracies			Democracies	
	N	Mean	SD	N	Mean	SD
GDP per capita	3376	2074.46	3838.65	3558	8149.97	9334.83
Investment share of GDP	3222	297.18	50.15	3339	309.94	31.84
Trade share of GDP	3175	406.06	67.95	3485	419.29	58.74
Primary-school enrollment rate	817	32.14	19.56	689	38.10	20.05
Secondary-school enrollment rate	817	19.53	17.15	689	34.37	19.72
Tax revenue share of GDP	3122	-201.59	62.93	2564	-168.61	49.82
Child mortality per 1,000 births	4142	77.29	49.64	3615	33.26	32.65
Unrest rate	3739	28.70	45.24	3610	21.91	41.37
Market reforms index $(0-100)$	3476	21.89	23.26	2829	52.11	24.75

2.3 Table.2 (Honoka Otani)

2.3.1 Preprocessing

```
data_t2 <- data %>%
  select(1:30) %>%
  group_by(country_name) %>%
  arrange(year) %>%
  mutate(
   lag1 = dplyr::lag(y, 1),
   lag2 = dplyr::lag(y, 2),
   lag3 = dplyr::lag(y, 3),
   lag4 = dplyr::lag(y, 4),
   lag5 = dplyr::lag(y, 5),
```

```
lag6 = dplyr::lag(y, 6),
lag7 = dplyr::lag(y, 7),
lag8 = dplyr::lag(y, 8)
) %>%
ungroup()
```

2.3.2 Estimation

```
data_m1 <- data_t2 %>%
  drop_na(y, dem, lag1) %>%
  pdata.frame(index = c("country_name", "year"))
model_1 <- plm(</pre>
  y ~ dem + lag1,
 data = data_m1,
model = "within",
 effect = "twoways"
)
data_m2 <- data_t2 %>%
  drop_na(y, dem, lag1, lag2) %>%
  pdata.frame(index = c("country_name", "year"))
model_2 <- plm(</pre>
 y ~ dem + lag1 + lag2,
  data = data_m2,
 model = "within",
  effect = "twoways"
data_m3 <- data_t2 %>%
 drop_na(y, dem, lag1, lag2, lag3, lag4) %>%
  pdata.frame(index = c("country_name", "year"))
model_3 <- plm(</pre>
  y ~ dem + lag1 + lag2 + lag3 + lag4,
 data = data_m3,
 model = "within",
  effect = "twoways"
data_m4 <- data_t2 %>%
  drop_na(
    y, dem, lag1, lag2, lag3, lag4,
    lag5, lag6, lag7, lag8
  ) %>%
  pdata.frame(index = c("country_name", "year"))
model_4 <- plm(
  y ~ dem + lag1 + lag2 + lag3 + lag4 +
    lag5 + lag6 + lag7 + lag8,
  data = data_m4,
 model = "within",
  effect = "twoways"
)
```

```
beta_hat_1 <- coef(model_1)["dem"]</pre>
gamma_hat_1 <- coef(model_1)["lag1"]</pre>
long_run_effect_1 <- beta_hat_1 / (1 - sum(gamma_hat_1))</pre>
beta_hat_2 <- coef(model_2)["dem"]</pre>
gamma_hat_2 <- coef(model_2)[c("lag1", "lag2")]</pre>
long_run_effect_2 <- beta_hat_2 / (1 - sum(gamma_hat_2))</pre>
beta_hat_3 <- coef(model_3)["dem"]</pre>
gamma_hat_3 <- coef(model_3)[c("lag1", "lag2", "lag3", "lag4")]</pre>
long_run_effect_3 <- beta_hat_3 / (1 - sum(gamma_hat_3))</pre>
beta_hat_4 <- coef(model_4)["dem"]</pre>
gamma_hat_4 <- coef(model_4)[</pre>
  c("lag1", "lag2", "lag3", "lag4",
    "lag5", "lag6", "lag7", "lag8")
long_run_effect_4 <- beta_hat_4 / (1 - sum(gamma_hat_4))</pre>
lre <- round(</pre>
  c(long_run_effect_1, long_run_effect_2,
    long_run_effect_3, long_run_effect_4),
)
pers1 <- sum(coef(model 1)[2])</pre>
pers2 <- sum(coef(model 2)[2:3])
pers3 <- sum(coef(model_3)[2:5])</pre>
pers4 <- sum(coef(model_4)[2:9])</pre>
pers <- round(c(pers1, pers2, pers3, pers4), 3)</pre>
dem_shortrun <- coef(model_1)["dem"]</pre>
lag1_mod1 <- coef(model_1)[2]</pre>
effect1 <- dem_shortrun</pre>
effect2 <- (effect1 * lag1_mod1) + dem_shortrun</pre>
effects_mod1 <- c(effect1, effect2)</pre>
for (i in 3:30) {
  eff <- (effects_mod1[i - 1] * lag1_mod1) + dem_shortrun</pre>
  effects_mod1 <- c(effects_mod1, eff)</pre>
eff_25_1 <- effects_mod1[25]</pre>
dem shortrun <- coef(model 2)["dem"]</pre>
lag1_mod2 <- coef(model_2)[2]</pre>
lag2_mod2 <- coef(model_2)[3]</pre>
effect1 <- dem_shortrun</pre>
effect2 <- (effect1 * lag1_mod2) + dem_shortrun</pre>
effect3 <- (effect2 * lag1_mod2) +
  (effect1 * lag2_mod2) + dem_shortrun
effects_mod2 <- c(effect1, effect2, effect3)</pre>
for (i in 4:30) {
  eff <- (effects_mod2[i - 1] * lag1_mod2) +</pre>
    (effects_mod2[i - 2] * lag2_mod2) +
```

```
dem_shortrun
  effects_mod2 <- c(effects_mod2, eff)</pre>
eff_25_2 \leftarrow effects_mod2[25]
dem_shortrun <- coef(model_3)["dem"]</pre>
lag1_mod3 <- coef(model_3)[2]</pre>
lag2_mod3 <- coef(model_3)[3]</pre>
lag3 mod3 <- coef(model 3)[4]</pre>
lag4_mod3 <- coef(model_3)[5]</pre>
effect1 <- dem_shortrun</pre>
effect2 <- (effect1 * lag1_mod3) + dem_shortrun</pre>
effect3 <- (effect2 * lag1_mod3) +</pre>
  (effect1 * lag2_mod3) + dem_shortrun
effect4 <- (effect3 * lag1_mod3) +
  (effect2 * lag2_mod3) +
  (effect1 * lag3_mod3) + dem_shortrun
effects_mod3 <- c(effect1, effect2, effect3, effect4)</pre>
for (i in 5:30) {
  eff <- (effects_mod3[i - 1] * lag1_mod3) +</pre>
    (effects_mod3[i - 2] * lag2_mod3) +
    (effects_mod3[i - 3] * lag3_mod3) +
    (effects_mod3[i - 4] * lag4_mod3) +
    dem_shortrun
  effects_mod3 <- c(effects_mod3, eff)</pre>
eff_25_3 <- effects_mod3[25]
dem_shortrun <- coef(model_4)["dem"]</pre>
lag1_mod4 <- coef(model_4)[2]</pre>
lag2_mod4 <- coef(model_4)[3]</pre>
lag3_mod4 <- coef(model_4)[4]</pre>
lag4_mod4 <- coef(model_4)[5]</pre>
lag5_mod4 <- coef(model_4)[6]</pre>
lag6_mod4 <- coef(model_4)[7]</pre>
lag7_mod4 <- coef(model_4)[8]</pre>
lag8_mod4 <- coef(model_4)[9]</pre>
effect1 <- dem shortrun
effect2 <- (effect1 * lag1_mod4) + dem_shortrun</pre>
effect3 <- (effect2 * lag1_mod4) +
  (effect1 * lag2_mod4) + dem_shortrun
effect4 <- (effect3 * lag1_mod4) +
  (effect2 * lag2_mod4) +
  (effect1 * lag3_mod4) + dem_shortrun
effect5 <- (effect4 * lag1_mod4) +
  (effect3 * lag2_mod4) +
  (effect2 * lag3_mod4) +
  (effect1 * lag4_mod4) + dem_shortrun
effect6 <- (effect5 * lag1_mod4) +
  (effect4 * lag2_mod4) +
  (effect3 * lag3_mod4) +
  (effect2 * lag4_mod4) +
  (effect1 * lag5_mod4) + dem_shortrun
```

```
effect7 <- (effect6 * lag1_mod4) +
  (effect5 * lag2_mod4) +
  (effect4 * lag3_mod4) +
  (effect3 * lag4_mod4) +
  (effect2 * lag5_mod4) +
  (effect1 * lag6_mod4) + dem_shortrun
effect8 <- (effect7 * lag1_mod4) +
  (effect6 * lag2_mod4) +
  (effect5 * lag3_mod4) +
  (effect4 * lag4_mod4) +
  (effect3 * lag5_mod4) +
  (effect2 * lag6_mod4) +
  (effect1 * lag7_mod4) + dem_shortrun
effects_mod4 <- c(
  effect1, effect2, effect3, effect4,
  effect5, effect6, effect7, effect8
for (i in 9:30) {
  eff <- (effects_mod4[i - 1] * lag1_mod4) +
    (effects_mod4[i - 2] * lag2_mod4) +
    (effects_mod4[i - 3] * lag3_mod4) +
    (effects_mod4[i - 4] * lag4_mod4) +
    (effects_mod4[i - 5] * lag5_mod4) +
    (effects_mod4[i - 6] * lag6_mod4) +
    (effects_mod4[i - 7] * lag7_mod4) +
    (effects_mod4[i - 8] * lag8_mod4) +
    dem shortrun
  effects_mod4 <- c(effects_mod4, eff)</pre>
eff_25_4 \leftarrow effects_mod4[25]
eff_25 <- round(</pre>
  c(eff_25_1, eff_25_2, eff_25_3, eff_25_4),
)
se1 <- sqrt(diag(vcov(model_1)))</pre>
se2 <- sqrt(diag(vcov(model_2)))</pre>
se3 <- sqrt(diag(vcov(model_3)))</pre>
se4 <- sqrt(diag(vcov(model_4)))</pre>
override.coef.1 <- c(
  coef(model 1)["dem"],
  coef(model_1)["lag1"],
 NA, NA, NA, NA, NA, NA
override.se.1 <- c(
  se1["dem"],
  se1["lag1"],
 NA, NA, NA, NA, NA, NA
override.coef.2 <- c(
```

```
coef(model_2)["dem"],
  coef(model_2)["lag1"],
  coef(model_2)["lag2"],
  NA, NA, NA, NA, NA
override.se.2 <- c(</pre>
  se2["dem"],
  se2["lag1"],
  se2["lag2"],
 NA, NA, NA, NA, NA
override.coef.3 <- c(</pre>
  coef(model_3)["dem"],
  coef(model_3)["lag1"],
  coef(model_3)["lag2"],
  coef(model_3)["lag3"],
  coef(model_3)["lag4"],
  NA, NA, NA, NA
)
override.se.3 <- c(
  se3["dem"],
  se3["lag1"],
  se3["lag2"],
  se3["lag3"],
  se3["lag4"],
 NA, NA, NA, NA
)
override.coef.4 <- c(</pre>
  coef(model_4)["dem"],
  coef(model_4)["lag1"],
  coef(model_4)["lag2"],
  coef(model_4)["lag3"],
  coef(model_4)["lag4"],
  coef(model_4)["lag5"],
  coef(model_4)["lag6"],
  coef(model_4)["lag7"],
  coef(model_4)["lag8"]
override.se.4 <- c(</pre>
  se4["dem"],
  se4["lag1"],
  se4["lag2"],
  se4["lag3"],
  se4["lag4"],
  se4["lag5"],
  se4["lag6"],
  se4["lag7"],
  se4["lag8"]
)
```

2.3.3 Tabulation

```
models <- list(model_1, model_2, model_3, model_4)</pre>
texreg(
 models,
  override.coef = list(
    override.coef.1,
    override.coef.2,
    override.coef.3,
   override.coef.4
 ),
 override.se = list(
    override.se.1,
    override.se.2,
    override.se.3,
    override.se.4
 ),
  custom.model.names = c("(1)", "(2)", "(3)", "(4)"),
  custom.coef.names = c(
    "Democracy", "Lag 1", "Lag 2",
    "Lag 3", "Lag 4", "Lag 5",
    "Lag 6", "Lag 7", "Lag 8"
  custom.gof.rows = list(
    "Persistence" = pers,
    "Long run effect" = lre,
   "Effect after 25 years" = eff_25
 ),
 file = "output/table_2_FE.tex",
  caption = "Effect of Democracy on (Log) GDP per Capita"
)
```

2.4 Table.6 (Shoya Abe)

2.4.1 Preprocessing

```
data_t6 <- data %>%
  group_by(country_name) %>%
  arrange(year) %>%
  mutate(
    lag1 = dplyr::lag(y, 1),
    lag2 = dplyr::lag(y, 2),
    lag3 = dplyr::lag(y, 3),
    lag4 = dplyr::lag(y, 4),
    lag5 = dplyr::lag(y, 5),
    lag6 = dplyr::lag(y, 6),
    lag7 = dplyr::lag(y, 7),
    lag8 = dplyr::lag(y, 8)
) %>%
  ungroup() %>%
  pdata.frame(index = c("country_name", "year"))
```

	(1)	(2)	(3)	(4)
Democracy	0.97***	0.65**	0.79***	0.89***
	(0.24)	(0.23)	(0.23)	(0.24)
Lag 1	0.97***	1.27^{***}	1.24***	1.23***
	(0.00)	(0.01)	(0.01)	(0.01)
Lag 2		-0.30***	-0.21***	-0.21***
		(0.01)	(0.02)	(0.02)
Lag 3			-0.03	-0.02
			(0.02)	(0.02)
Lag 4			-0.04***	-0.04
			(0.01)	(0.02)
Lag 5				-0.02
				(0.02)
Lag 6				0.01
				(0.02)
Lag 7				0.02
				(0.02)
Lag 8				-0.01
				(0.01)
Persistence	0.97	0.97	0.96	0.96
Long run effect	35.59	19.60	21.24	22.01
Effect after 25 years	17.79	13.80	16.90	17.72
\mathbb{R}^2	0.96	0.96	0.96	0.96
$Adj. R^2$	0.96	0.96	0.96	0.96
Num. obs.	6790	6642	6336	5688

^{***}p < 0.001; **p < 0.01; *p < 0.05

Table 2: Effect of Democracy on (Log) GDP per Capita

2.4.2 Estimation

```
model_iv_1 <- plm(</pre>
  y ~ dem + plm::lag(y, 1:4) |
    plm::lag(demreg, 1) + plm::lag(y, 1:4),
  data = data_t6,
  effect = "twoways"
model_iv_2 <- plm(</pre>
  y ~ dem + plm::lag(y, 1:4) |
    plm::lag(demreg, 1:4) + plm::lag(y, 1:4),
  data = data_t6,
  effect = "twoways"
model_iv_3 <- plm(</pre>
  y \sim dem + plm::lag(y, 1:4) + sov1 + sov2 + sov3 + sov4 |
    plm::lag(demreg, 1:4) + plm::lag(y, 1:4) +
    sov1 + sov2 + sov3 + sov4,
  data = data_t6,
  effect = "twoways"
model_iv_4 <- plm(</pre>
  y \sim dem + plm::lag(y, 1:4) +
    rtrend2 + rtrend3 + rtrend4 + rtrend5 + rtrend6 + rtrend7
    plm::lag(demreg, 1:4) + plm::lag(y, 1:4) +
    rtrend2 + rtrend3 + rtrend4 + rtrend5 + rtrend6 + rtrend7,
  data = data_t6,
  effect = "twoways",
  model = "within"
beta_hat_1 <- coef(model_iv_1)["dem"]</pre>
gamma_hat_1 <- coef(model_iv_1)[2:5]</pre>
long_run_effect_1 <- beta_hat_1 / (1 - sum(gamma_hat_1))</pre>
beta_hat_2 <- coef(model_iv_2)["dem"]</pre>
gamma_hat_2 <- coef(model_iv_2)[2:5]</pre>
long_run_effect_2 <- beta_hat_2 / (1 - sum(gamma_hat_2))</pre>
beta_hat_3 <- coef(model_iv_3)["dem"]</pre>
gamma_hat_3 <- coef(model_iv_3)[2:5]</pre>
long_run_effect_3 <- beta_hat_3 / (1 - sum(gamma_hat_3))</pre>
beta_hat_4 <- coef(model_iv_4)["dem"]</pre>
gamma hat 4 <- coef(model iv 4)[2:5]
long_run_effect_4 <- beta_hat_4 / (1 - sum(gamma_hat_4))</pre>
lre <- round(</pre>
  c(long_run_effect_1, long_run_effect_2,
    long_run_effect_3, long_run_effect_4),
  3
)
```

```
sre <- c()</pre>
dem_shortrun <- coef(model_iv_1)["dem"]</pre>
lag1 <- coef(model_iv_1)[2]</pre>
lag2 <- coef(model_iv_1)[3]</pre>
lag3 <- coef(model_iv_1)[4]</pre>
lag4 <- coef(model_iv_1)[5]</pre>
effect1 <- dem shortrun
effect2 <- effect1 * lag1 + dem_shortrun</pre>
effect3 <- effect2 * lag1 + effect1 * lag2 + dem_shortrun</pre>
effect4 <- effect3 * lag1 + effect2 * lag2 +
  effect1 * lag3 + dem_shortrun
effects <- c(effect1, effect2, effect3, effect4)</pre>
for (i in 5:30) {
  eff <- effects[i - 1] * lag1 +
    effects[i - 2] * lag2 +
    effects[i - 3] * lag3 +
    effects[i - 4] * lag4 + dem_shortrun
  effects <- c(effects, eff)
}
sre <- c(sre, effects[25])</pre>
dem_shortrun <- coef(model_iv_2)["dem"]</pre>
lag1 <- coef(model_iv_2)[2]</pre>
lag2 <- coef(model iv 2)[3]</pre>
lag3 <- coef(model_iv_2)[4]</pre>
lag4 <- coef(model_iv_2)[5]</pre>
effect1 <- dem_shortrun</pre>
effect2 <- effect1 * lag1 + dem_shortrun</pre>
effect3 <- effect2 * lag1 + effect1 * lag2 + dem_shortrun</pre>
effect4 <- effect3 * lag1 + effect2 * lag2 +
  effect1 * lag3 + dem_shortrun
effects <- c(effect1, effect2, effect3, effect4)</pre>
for (i in 5:30) {
  eff <- effects[i - 1] * lag1 +
    effects[i - 2] * lag2 +
    effects[i - 3] * lag3 +
    effects[i - 4] * lag4 + dem_shortrun
  effects <- c(effects, eff)
sre <- c(sre, effects[25])</pre>
dem_shortrun <- coef(model_iv_3)["dem"]</pre>
lag1 <- coef(model_iv_3)[2]</pre>
lag2 <- coef(model_iv_3)[3]</pre>
lag3 <- coef(model_iv_3)[4]</pre>
lag4 <- coef(model_iv_3)[5]</pre>
effect1 <- dem_shortrun</pre>
effect2 <- effect1 * lag1 + dem_shortrun</pre>
effect3 <- effect2 * lag1 + effect1 * lag2 + dem_shortrun</pre>
effect4 <- effect3 * lag1 + effect2 * lag2 +
  effect1 * lag3 + dem_shortrun
effects <- c(effect1, effect2, effect3, effect4)</pre>
```

```
for (i in 5:30) {
  eff <- effects[i - 1] * lag1 +
    effects[i - 2] * lag2 +
    effects[i - 3] * lag3 +
    effects[i - 4] * lag4 + dem_shortrun
  effects <- c(effects, eff)
sre <- c(sre, effects[25])</pre>
dem_shortrun <- coef(model_iv_4)["dem"]</pre>
lag1 <- coef(model_iv_4)[2]</pre>
lag2 <- coef(model_iv_4)[3]</pre>
lag3 <- coef(model iv 4)[4]</pre>
lag4 <- coef(model_iv_4)[5]</pre>
effect1 <- dem_shortrun</pre>
effect2 <- effect1 * lag1 + dem_shortrun</pre>
effect3 <- effect2 * lag1 + effect1 * lag2 + dem_shortrun</pre>
effect4 <- effect3 * lag1 + effect2 * lag2 +
  effect1 * lag3 + dem_shortrun
effects <- c(effect1, effect2, effect3, effect4)
for (i in 5:30) {
  eff <- effects[i - 1] * lag1 +
    effects[i - 2] * lag2 +
    effects[i - 3] * lag3 +
    effects[i - 4] * lag4 + dem_shortrun
  effects <- c(effects, eff)</pre>
sre <- c(sre, effects[25])</pre>
sre <- round(sre, 3)</pre>
pers1 <- sum(coef(model_iv_1)[2:5])</pre>
pers2 <- sum(coef(model_iv_2)[2:5])</pre>
pers3 <- sum(coef(model_iv_3)[2:5])</pre>
pers4 <- sum(coef(model_iv_4)[2:5])</pre>
pers <- round(c(pers1, pers2, pers3, pers4), 3)</pre>
```

2.4.3 Tabulation

```
override.coef.1 <- coef(model_iv_1)["dem", drop = FALSE]
override.coef.2 <- coef(model_iv_2)["dem", drop = FALSE]
override.coef.3 <- coef(model_iv_3)["dem", drop = FALSE]
override.coef.4 <- coef(model_iv_4)["dem", drop = FALSE]
override.se.1 <- sqrt(diag(vcov(model_iv_1)))["dem"]
override.se.2 <- sqrt(diag(vcov(model_iv_2)))["dem"]
override.se.3 <- sqrt(diag(vcov(model_iv_3)))["dem"]
override.se.4 <- sqrt(diag(vcov(model_iv_4)))["dem"]
models <- list(model_iv_1, model_iv_2, model_iv_3, model_iv_4)

texreg(
models,</pre>
```

	1 Lag	4 Lags	Soviet Dummies	Regional Trends
Democracy	0.97	1.15	1.29	1.70*
	(0.61)	(0.61)	(0.67)	(0.78)
Persistence	0.96	0.96	0.96	0.95
Long run effect	26.32	31.52	35.72	36.79
Effect after 25 years	20.84	24.87	27.93	32.05
Num. obs.	6312	6309	6309	6309

^{***}p < 0.001; **p < 0.01; *p < 0.05

Table 3: Effect of Democracy on (Log) GDP per Capita

```
override.coef = list(
  override.coef.1,
  override.coef.2,
  override.coef.3,
  override.coef.4
),
override.se = list(
  override.se.1,
  override.se.2,
  override.se.3,
  override.se.4
),
custom.model.names = c(
  "1 Lag", "4 Lags",
  "Soviet Dummies",
  "Regional Trends"
),
custom.coef.map = list(dem = "Democracy"),
custom.gof.rows = list(
  "Persistence" = pers,
  "Long run effect" = lre,
  "Effect after 25 years" = sre
),
file = "output/table_6_iv.tex",
caption = "Effect of Democracy on (Log) GDP per Capita",
include.rsquared = FALSE,
include.adjrs = FALSE,
include.fstat = FALSE
```

3 Extention

3.1 Confidence Interval by the Bootstrap Method (Shoya Abe)

In Figure 1 of the original paper, confidence intervals are not presented. We employ the bootstrap method to derive the confidence interval for the estimated ATT. This allows us to visualize the uncertainty associated with the estimated ATT.

3.1.1 Bootstrap Method

We explain the bootstrap method used in our analysis. The bootstrap method is a computational simulation technique that allows us to estimate the distribution of a statistic in a finite sample. The procedure is conducted as follows:

- 1. Randomly draw n observations with replacement from the original sample to generate n bootstrap samples.
- 2. Estimate the ATT for each bootstrap sample.
- 3. Compute the standard error of the ATT estimates obtained from the bootstrap samples.
- 4. Use this standard error to estimate the confidence interval.

Here, we derive the confidence interval using two different methods. The first method assumes that the distribution of the estimated ATT follows a normal distribution and estimates the confidence interval using the 2.5% and 97.5% percentiles. This corresponds to the light blue-shaded interval in Figure 3. The second method estimates the confidence interval using the 2.5% and 97.5% percentiles of the bootstrap distribution. This corresponds to the pink-shaded interval in Figure 3.

3.1.2 Estimation

We estimate the confidence interval by executing the following code. The number of bootstrap replications is 200.

```
compute_atets <- function(data_boot) {</pre>
  original_data <- data_f1
  data_f1 <<- data_boot</pre>
  out <- numeric(length(relative times))</pre>
  for (i in seq_along(relative_times)) {
    t_val <- relative_times[i]</pre>
    if (t_val < 0) {</pre>
      col_name <- paste0("gdpDiff_m", abs(t_val))</pre>
    } else {
      col_name <- if (t_val == 0) "gdpDiff_0" else paste0("gdpDiff_p", t_val)</pre>
    }
    out[i] <- estimateATT(col_name)</pre>
  data_f1 <<- original_data
  out
}
B <- 200
set.seed(123)
boot_mat <- matrix(NA, nrow = B, ncol = length(relative_times))</pre>
unique_ids <- unique(data_f1$id)
for (b in seq_len(B)) {
  sampled_ids <- sample(unique_ids, size = length(unique_ids), replace = TRUE)</pre>
  bs_data <- lapply(sampled_ids, function(x) {</pre>
    data_f1[data_f1$id == x, ]
  }) %>% bind rows()
  boot_mat[b, ] <- compute_atets(bs_data)</pre>
```

```
boot_se <- apply(boot_mat, 2, sd, na.rm = TRUE)
ci_lower_normal <- atets - 1.96 * boot_se
ci_upper_normal <- atets + 1.96 * boot_se

ci_lower_perc <- apply(boot_mat, 2, quantile, probs = 0.025, na.rm = TRUE)
ci_upper_perc <- apply(boot_mat, 2, quantile, probs = 0.975, na.rm = TRUE)

results_with_ci <- data.frame(
    RelativeTime = relative_times,
    ATT = atets,
    ciL_normal = ci_lower_normal,
    ciU_normal = ci_upper_normal,
    ciL_perc = ci_lower_perc,
    ciU_perc = ci_lower_perc
)</pre>
```

3.1.3 Plot

```
figure_1_withCI <- ggplot(results_with_ci, aes(x = RelativeTime, y = ATT)) +
  geom_line(color = "black") +
  geom_ribbon(aes(ymin = ciL_perc, ymax = ciU_perc), fill = "pink", alpha = 0.3) +
  geom_ribbon(aes(ymin = ciL_normal, ymax = ciU_normal), fill = "skyblue", alpha = 0.3) +
  scale_x_continuous(breaks = seq(-15, 30, 5)) +
  labs(
    x = "Years around Democratization",
    y = "Change in GDP per capita (log points)"
  ) +
  theme_bw()

ggsave("output/figure_1_withCI.pdf",
    figure_1_withCI,
    width = 14,
    height = 8,
    units = "cm")</pre>
```

Figure 1 appears to strongly support the claim that "Democracy does cause growth". However, when we look at Figure 2, which includes confidence intervals, the picture changes completely. While we do not deny that democratization has a positive effect on economic growth, it becomes clear that the long-term effects of democratization on economic growth are highly uncertain. Perhaps the authors chose not to display the confidence intervals, even if unintentionally, in a way that emphasized the claim that "Democracy does cause growth."

4 References

Acemoglu, Daron, Suresh Naidu, Pascual Restrepo, and James A Robinson. 2019. "Democracy Does Cause Growth." *Journal of Political Economy* 127 (1): 47–100. https://doi.org/10.1086/700936. Hansen, Bruce. 2022. *Econometrics*. Princeton University Press.

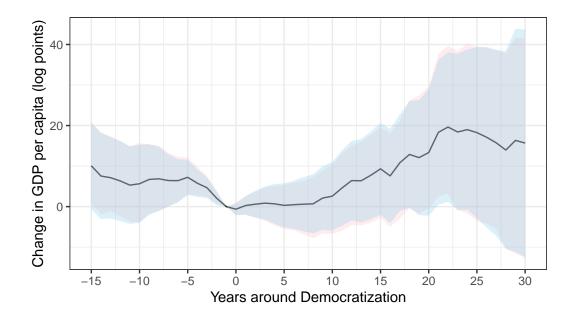


Figure 2: The Long-Term Impact of Democratization on Economic Growth (with the confidence interval)

5 Appendix

5.1 List of Variables (Shoya Abe)

```
var_labels <- sapply(data, function(x) attr(x, "label"))
list_var <- tibble(
  variable = names(var_labels),
  label = var_labels
)

kable(
  list_var,
  format = "latex",
  booktabs = TRUE,
  longtable = TRUE,
  caption = "List of Variables"
) %>%
  kable_styling(latex_options = "repeat_header")
```

Table 4: List of Variables

variable	label
country_name	Country name
wbcode	World Bank country code
year	Year (from 1960 to 2010)
gdppercapitaconstant2000us	GDP per capita (constant 2000 US\$, from World Bank)
lp_bl	Percentage of population with at most primary (Barro-Lee)
ls_bl	Percentage of population with at most secondary (Barro-Lee)

Table 4: List of Variables (continued)

variable	label
lh_bl taxratio region wbcode2	Percentage of population with tertiary education (Barro-Lee) Tax revenue as a share of GDP (from Hendrix) Geographical region Generated numeric country code
demCGV demBMR yeardem yearrev secenr	Democracy measure by CGV Democracy measure by BMR Identifier for a democratization during this year Identifier for a reversal to autocracy during this year Secondary enrollment from World bank
prienr tradewb mortnew ginv rtfpna	Primary enrollment from World Bank Exports plus Imports as a share of GDP from World Bank Child mortality per 1000 births from World Bank Gross investment as a share of GDP TFP at constant national prices (2005=1) from PWT
y dem yy1 yy2 yy3	log of GDP per capita in 2000 constant dollars (multiplied by a 100) Democracy measure by ANRR year== 1960.0000 year== 1961.0000 year== 1962.0000
yy4 yy5 yy6 yy7 yy8	year== 1963.0000 year== 1964.0000 year== 1965.0000 year== 1966.0000 year== 1967.0000
yy9 yy10 yy11 yy12 yy13	year == 1968.0000 $year == 1969.0000$ $year == 1970.0000$ $year == 1971.0000$ $year == 1972.0000$
yy14 yy15 yy16 yy17 yy18	year == 1973.0000 $year == 1974.0000$ $year == 1975.0000$ $year == 1976.0000$ $year == 1977.0000$
yy19 yy20 yy21 yy22 yy23	year== 1978.0000 year== 1979.0000 year== 1980.0000 year== 1981.0000 year== 1982.0000
yy24 yy25 yy26 yy27 yy28	year== 1983.0000 year== 1984.0000 year== 1985.0000 year== 1986.0000 year== 1987.0000
yy29 yy30 yy31	year = 1988.0000 year = 1989.0000 year = 1990.0000

Table 4: List of Variables (continued)

variable	label
yy32	year = 1991.0000
yy33	year = 1992.0000
yy34	year = 1993.0000
yy35	year = 1994.0000
yy36	year = 1995.0000
yy37	year = 1996.0000
yy38	year = 1997.0000
yy39	year = 1998.0000
yy40	year = 1999.0000
yy41	year = 2000.0000
yy42	year = 2001.0000
yy43	year = 2002.0000
yy44	year = 2003.0000
yy45	year = 2004.0000
yy46	year = 2005.0000
yy47	year = 2006.0000
yy48	year = 2007.0000
yy49	year = 2008.0000
yy50	year = 2009.0000
yy51	year = 2010.0000
InitReg	Democratic status after independence or in 1960
unrest	Occurrence of events of unrest (from Banks CNTS)
loginvpc	log investment (multiplied by 100)
ltfp	log TFP (multiplied by 100)
ltrade2	lof of trade (multiplied by 100)
lprienr	lof of primary enrollment (multiplied by 100)
lsecenr	log of secondary enrollment (multiplied by 100)
lgov	log of taxes to GDP (multiplied by a 100)
lmort	log of child mortality rate (multiplied by a 100)
unrestn	Likelihood of unrest (0-100 scale)
demFH	democracy measure based on Freedom House
demPOL	democracy measure based on Polity IV
demPS	democracy measure by PS
demPOL xconst	dummy for constraints on executive (based on polity)
demPOL_parcomp	dummy for competitiveness of participation (based on polity)
demPOL_exrec	dummy for quality of executive recruitment process (based on Polity)
demFH_pr	Dummy for political rights (based on Freedom House)
_	,
demFH_cl demevent	Dummy for civil liberties (based on Freedom House) Event of democratization
	Event of democratization Event of reversal to autocracy
revevent democ	Cummulative number of democratizations
rever	Cumulative number of reversals
demext	Democratic status at beginning of sample
regionINITREG	Region/Initial regime at start of sample cells Average demogracy in the region*initial regime (leaving own country out)
demreg	Average democracy in the region*initial regime (leaving own country out) Regional trade
tradewbreg	Regional urrest
unrestreg	negional uniest

Table 4: List of Variables (continued)

variable	label
yreg rtrend1 rtrend2 rtrend3 rtrend4	Regional GDP per capita Region 1 trend Region 2 trend Region 3 trend Region 4 trend
rtrend5 rtrend6 rtrend7 region60 regionDA	Region 5 trend Region trend 6 region trend 7 Region/Democratic in 1960 cells Region/Always democratic cells
regionREG demreg60 demregDA demregREGIME d60_1	Region/Detailed regime in 1960 cells Average democracy in the region*initial regim (using regime in 1960, jackniffed) Average democracy in the region*initial regim (using always democracy, jackniffe Average democracy in the region*initial regime (detailed regimes, jackniffed) region60==AFR_dem
d60_2 d60_3 d60_4 d60_5 d60_6	region60==AFR_nd region60==EAP_dem region60==EAP_nd region60==ECA_nd region60==INL_dem
d60_7 d60_8 d60_9 d60_10 d60_11	region60==INL_nd region60==LAC_dem region60==LAC_nd region60==MNA_dem region60==MNA_nd
d60_12 d60_13 dDA_1 dDA_2 dDA_3	region60==SAS_dem region60==SAS_nd regionDA==AFR_dem regionDA==AFR_nd regionDA==EAP_dem
dDA_4 dDA_5 dDA_6 dDA_7 dDA_8	regionDA==EAP_nd regionDA==ECA_nd regionDA==INL_dem regionDA==INL_nd regionDA==LAC_dem
dDA_9 dDA_10 dDA_11 dDA_12 dREG_1	regionDA==LAC_nd regionDA==MNA_nd regionDA==SAS_dem regionDA==SAS_nd regionREG==AFRBritishColony
dREG_2 dREG_3 dREG_4 dREG_5 dREG_6	regionREG==AFRCivilDictator regionREG==AFRFrenchColony regionREG==AFRMilitaryDictator regionREG==AFRParlamentaryDemocracy regionREG==AFRRoyalDictator
dREG_7	${\it region} {\it REG} {\it ==} {\it AFRSocialistRegime}$

Table 4: List of Variables (continued)

variable	label
dREG_8 dREG_9 dREG_10 dREG_11	regionREG==EAPBritishColony regionREG==EAPCivilDictator regionREG==EAPMilitaryDictator regionREG==EAPMixedAndPresidentialDemocracy
dREG_12 dREG_13 dREG_14 dREG_15 dREG_16	regionREG==EAPRoyalDictator regionREG==EAPSocialistRegime regionREG==ECAMilitaryDictator regionREG==ECASocialistRegime regionREG==INLCivilDictator
dREG_17 dREG_18 dREG_19 dREG_20 dREG_21	regionREG==INLFrenchColony regionREG==INLMilitaryDictator regionREG==INLMixedAndPresidentialDemocracy regionREG==INLParlamentaryDemocracy regionREG==LACBritishColony
dREG_22 dREG_23 dREG_24 dREG_25 dREG_26	regionREG==LACFrenchColony regionREG==LACMilitaryDictator regionREG==LACMixedAndPresidentialDemocracy regionREG==LACSocialistRegime regionREG==MNABritishColony
dREG_27 dREG_28 dREG_29 dREG_30 dREG_31	regionREG==MNACivilDictator regionREG==MNAFrenchColony regionREG==MNAMilitaryDictator regionREG==MNAParlamentaryDemocracy regionREG==MNARoyalDictator
dREG_32 dREG_33 dREG_34 dREG_35 gdp1960	regionREG==SASBritishColony regionREG==SASMilitaryDictator regionREG==SASParlamentaryDemocracy regionREG==SASRoyalDictator GDP per capita in 1960 from Madisson
region_initreg_year incomequint50s_year sov1 sov2 sov3	Region/Initial regime/year cells Income quintiles in 50s/year cells Soviets post 89 Soviets post 90 Soviets post 91
sov4 marketref regdum1 regdum2 regdum3	Soviets post 92 Index of market reforms region_initreg_year==AFR_dem1960 region_initreg_year==AFR_dem1961 region_initreg_year==AFR_dem1962
regdum4 regdum5 regdum6 regdum7 regdum8	region_initreg_year==AFR_dem1963 region_initreg_year==AFR_dem1964 region_initreg_year==AFR_dem1965 region_initreg_year==AFR_dem1966 region_initreg_year==AFR_dem1967
regdum9 regdum10 regdum11	region_initreg_year==AFR_dem1968 region_initreg_year==AFR_dem1969 region_initreg_year==AFR_dem1970

Table 4: List of Variables (continued)

variable	label
regdum12	$region_initreg_year == AFR_dem 1971$
regdum13	$region_initreg_year == AFR_dem 1972$
regdum14	$region_initreg_year == AFR_dem 1973$
regdum15	region_initreg_year==AFR_dem1974
regdum16	region_initreg_year==AFR_dem1975
regdum17	$region_initreg_year == AFR_dem 1976$
regdum18	$region_initreg_year == AFR_dem 1977$
regdum19	$region_initreg_year == AFR_dem 1978$
regdum20	$region_initreg_year == AFR_dem 1979$
regdum21	$region_initreg_year == AFR_dem 1980$
regdum22	$region_initreg_year == AFR_dem 1981$
regdum23	$region_initreg_year == AFR_dem 1982$
regdum24	$region_initreg_year == AFR_dem 1983$
regdum25	$region_initreg_year == AFR_dem 1984$
regdum26	$region_initreg_year == AFR_dem 1985$
regdum27	$region_initreg_year == AFR_dem 1986$
regdum28	$region_initreg_year == AFR_dem 1987$
regdum29	$region_initreg_year == AFR_dem 1988$
regdum30	$region_initreg_year == AFR_dem 1989$
regdum31	$region_initreg_year == AFR_dem 1990$
regdum32	$region_initreg_year == AFR_dem 1991$
regdum33	$region_initreg_year == AFR_dem 1992$
regdum34	${\rm region_initreg_year} {==} {\rm AFR_dem} 1993$
regdum35	$region_initreg_year == AFR_dem 1994$
regdum36	$region_initreg_year == AFR_dem 1995$
regdum37	$region_initreg_year == AFR_dem 1996$
regdum38	$region_initreg_year == AFR_dem 1997$
regdum39	$region_initreg_year == AFR_dem 1998$
regdum40	$region_initreg_year == AFR_dem 1999$
regdum41	$region_initreg_year == AFR_dem 2000$
regdum42	$region_initreg_year == AFR_dem 2001$
regdum43	$region_initreg_year == AFR_dem 2002$
regdum44	$region_initreg_year == AFR_dem 2003$
regdum45	region_initreg_year==AFR_dem2004
regdum46	region_initreg_year==AFR_dem2005
regdum47	region_initreg_year==AFR_dem2006
regdum48	$region_initreg_year == AFR_dem 2007$
regdum49	region_initreg_year==AFR_dem2008
regdum50	region_initreg_year==AFR_dem2009
regdum51	region_initreg_year==AFR_dem2010
regdum52	region_initreg_year==AFR_nd1960
regdum53	$region_initreg_year == AFR_nd1961$
regdum54	region_initreg_year==AFR_nd1962
regdum55	region_initreg_year==AFR_nd1963
regdum56	region_initreg_year==AFR_nd1964
regdum57	region_initreg_year==AFR_nd1965
regdum58	$region_initreg_year == AFR_nd1966$

Table 4: List of Variables (continued)

variable	label
regdum59	region_initreg_year==AFR_nd1967
regdum60	region_initreg_year==AFR_nd1968
regdum61	region_initreg_year==AFR_nd1969
regdum62	region_initreg_year==AFR_nd1970
regdum63	region_initreg_year==AFR_nd1971
_	
regdum64	region_initreg_year==AFR_nd1972
regdum65	region_initreg_year==AFR_nd1973
regdum66	region_initreg_year==AFR_nd1974
regdum67	$region_initreg_year == AFR_nd1975$
regdum68	$region_initreg_year == AFR_nd1976$
regdum69	$region_initreg_year == AFR_nd1977$
regdum70	$region_initreg_year == AFR_nd1978$
regdum71	$region_initreg_year == AFR_nd1979$
regdum72	$region_initreg_year == AFR_nd1980$
regdum73	$region_initreg_year == AFR_nd1981$
regdum74	$region_initreg_year == AFR_nd1982$
regdum75	region_initreg_year==AFR_nd1983
regdum76	region_initreg_year==AFR_nd1984
regdum77	region_initreg_year==AFR_nd1985
regdum78	region_initreg_year==AFR_nd1986
regdum79	region_initreg_year==AFR_nd1987
_	
regdum80	region_initreg_year==AFR_nd1988
regdum81	region_initreg_year==AFR_nd1989
regdum82	region_initreg_year==AFR_nd1990
regdum83	$region_initreg_year == AFR_nd1991$
regdum84	$region_initreg_year == AFR_nd1992$
regdum85	$region_initreg_year == AFR_nd1993$
regdum86	$region_initreg_year == AFR_nd1994$
regdum87	$region_initreg_year == AFR_nd1995$
regdum88	$region_initreg_year == AFR_nd1996$
regdum89	$region_initreg_year == AFR_nd1997$
regdum90	region_initreg_year==AFR_nd1998
regdum91	region_initreg_year==AFR_nd1999
regdum92	region_initreg_year==AFR_nd2000
regdum93	region initreg year==AFR nd2001
<u> </u>	0 = 0=
regdum94	region_initreg_year==AFR_nd2002
regdum95	region_initreg_year==AFR_nd2003
regdum96	region_initreg_year==AFR_nd2004
regdum97	region_initreg_year==AFR_nd2005
regdum98	$region_initreg_year == AFR_nd2006$
regdum99	${\rm region_initreg_year}{=}{\rm AFR_nd2007}$
regdum100	$region_initreg_year == AFR_nd2008$
regdum101	$region_initreg_year == AFR_nd2009$
regdum102	region_initreg_year==AFR_nd2010
regdum103	region_initreg_year==EAP_dem1960
regdum104	region_initreg_year==EAP_dem1961
1090000000	1081011_1111106Jour == 1111 _doi:111011

Table 4: List of Variables (continued)

regdum107 regdum108 region_initreg_year==EAP_dem1965 regdum109 region_initreg_year==EAP_dem1965 regdum109 region_initreg_year==EAP_dem1966 regdum110 region_initreg_year==EAP_dem1967 regdum111 region_initreg_year==EAP_dem1968 regdum112 region_initreg_year==EAP_dem1969 regdum113 region_initreg_year==EAP_dem1970 regdum114 region_initreg_year==EAP_dem1971 regdum115 region_initreg_year==EAP_dem1972 regdum116 region_initreg_year==EAP_dem1973 regdum117 region_initreg_year==EAP_dem1973 regdum118 region_initreg_year==EAP_dem1974 regdum119 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 regdum126 region_initreg_year==EAP_dem1981 regdum127 region_initreg_year==EAP_dem1983 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1985 regdum130 region_initreg_year==EAP_dem1986 regdum131 region_initreg_year==EAP_dem1987 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1990 regdum135 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1993 regdum136 region_initreg_year==EAP_dem1994 region_initreg_year==EAP_dem1995 regdum137 region_initreg_year==EAP_dem1996 regdum138 region_initreg_year==EAP_dem1997 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1997 regdum142 region_initreg_year==EAP_dem1998 regdum143 region_initreg_year==EAP_dem1997 regdum144 region_initreg_year==EAP_dem1997 regdum145 region_initreg_year==EAP_dem1997 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2001 regdum146 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	variable	label
regdum107 regdum108 region_initreg_year==EAP_dem1965 regdum109 region_initreg_year==EAP_dem1965 regdum109 region_initreg_year==EAP_dem1966 regdum110 region_initreg_year==EAP_dem1967 regdum111 region_initreg_year==EAP_dem1968 regdum112 region_initreg_year==EAP_dem1969 regdum113 region_initreg_year==EAP_dem1970 regdum114 region_initreg_year==EAP_dem1971 regdum115 region_initreg_year==EAP_dem1972 regdum116 region_initreg_year==EAP_dem1973 regdum117 region_initreg_year==EAP_dem1973 regdum118 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1977 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 regdum126 region_initreg_year==EAP_dem1982 regdum127 region_initreg_year==EAP_dem1983 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1985 regdum130 region_initreg_year==EAP_dem1985 regdum131 region_initreg_year==EAP_dem1986 regdum132 region_initreg_year==EAP_dem1987 region_initreg_year==EAP_dem1988 regdum131 region_initreg_year==EAP_dem1990 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1991 region_initreg_year==EAP_dem1994 region_initreg_year==EAP_dem1995 region_initreg_year==EAP_dem1996 region_initreg_year==EAP_dem1997 region_initreg_year==EAP_dem1999 region_initreg_year==EAP_dem1999 region_initreg_year==EAP_dem1999 region_initreg_year==EAP_dem1999 region_initreg_year==EAP_dem1999 region_initreg_year==EAP_dem1998 region_initreg_year==EAP_dem1999 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem20	regdum105	$region_initreg_year == EAP_dem 1962$
regdum108 region_initreg_year==EAP_dem1965 regdum110 region_initreg_year==EAP_dem1966 regdum111 region_initreg_year==EAP_dem1968 regdum112 region_initreg_year==EAP_dem1968 regdum113 region_initreg_year==EAP_dem1969 regdum114 region_initreg_year==EAP_dem1970 regdum115 regdum115 region_initreg_year==EAP_dem1971 regdum116 region_initreg_year==EAP_dem1973 regdum117 region_initreg_year==EAP_dem1973 regdum118 region_initreg_year==EAP_dem1974 regdum119 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1976 regdum121 region_initreg_year==EAP_dem1977 regdum122 region_initreg_year==EAP_dem1978 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1980 regdum125 regdum126 region_initreg_year==EAP_dem1981 regdum127 region_initreg_year==EAP_dem1982 regdum128 regdum129 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1985 regdum130 region_initreg_year==EAP_dem1988 regdum131 region_initreg_year==EAP_dem1988 regdum131 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1990 regdum135 region_initreg_year==EAP_dem1991 regdum136 region_initreg_year==EAP_dem1992 regdum137 region_initreg_year==EAP_dem1993 regdum139 region_initreg_year==EAP_dem1993 regdum130 region_initreg_year==EAP_dem1994 regdum131 region_initreg_year==EAP_dem1995 regdum133 region_initreg_year==EAP_dem1996 regdum134 region_initreg_year==EAP_dem1997 regdum135 region_initreg_year==EAP_dem1999 regdum136 region_initreg_year==EAP_dem1999 regdum137 region_initreg_year==EAP_dem1999 regdum139 region_initreg_year==EAP_dem1999 regdum140 region_initreg_year==EAP_dem1999 regdum141 region_initreg_year==EAP_dem1999 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem1990 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2001 regdum146 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2005	regdum106	
regdum109 region_initreg_year==EAP_dem1966 regdum111 region_initreg_year==EAP_dem1967 regdum112 region_initreg_year==EAP_dem1968 regdum113 region_initreg_year==EAP_dem1969 regdum114 region_initreg_year==EAP_dem1970 regdum115 region_initreg_year==EAP_dem1971 regdum116 region_initreg_year==EAP_dem1972 regdum117 region_initreg_year==EAP_dem1973 regdum118 region_initreg_year==EAP_dem1974 regdum119 region_initreg_year==EAP_dem1975 regdum110 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1977 regdum122 region_initreg_year==EAP_dem1978 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum130 region_initreg_year==EAP_dem1986 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1988 regdum133 region_initreg_year==EAP_dem1989 regdum134 region_initreg_year==EAP_dem1989 regdum135 region_initreg_year==EAP_dem1990 regdum136 region_initreg_year==EAP_dem1991 regdum137 region_initreg_year==EAP_dem1992 regdum138 region_initreg_year==EAP_dem1993 regdum139 region_initreg_year==EAP_dem1994 regdum139 region_initreg_year==EAP_dem1996 regdum139 region_initreg_year==EAP_dem1997 regdum139 region_initreg_year==EAP_dem1997 regdum139 region_initreg_year==EAP_dem1997 regdum139 region_initreg_year==EAP_dem1997 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1999 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem1997 regdum144 region_initreg_year==EAP_dem1997 regdum145 region_initreg_year==EAP_dem2001 regdum146 region_initreg_year==EAP_dem2001 regdum147 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==E	regdum107	
regdum110 region_initreg_year==EAP_dem1967 regdum111 region_initreg_year==EAP_dem1968 regdum112 region_initreg_year==EAP_dem1969 regdum113 region_initreg_year==EAP_dem1970 regdum114 region_initreg_year==EAP_dem1971 regdum115 region_initreg_year==EAP_dem1971 regdum116 region_initreg_year==EAP_dem1972 regdum117 region_initreg_year==EAP_dem1973 regdum118 region_initreg_year==EAP_dem1974 regdum119 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 regdum126 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1987 regdum133 region_initreg_year==EAP_dem1989 regdum134 region_initreg_year==EAP_dem1990 regdum135 region_initreg_year==EAP_dem1990 regdum136 region_initreg_year==EAP_dem1991 regdum137 region_initreg_year==EAP_dem1993 regdum138 region_initreg_year==EAP_dem1996 regdum139 region_initreg_year==EAP_dem1997 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1996 regdum141 region_initreg_year==EAP_dem1997 regdum142 region_initreg_year==EAP_dem1996 regdum143 region_initreg_year==EAP_dem1997 regdum144 region_initreg_year==EAP_dem1999 regdum145 region_initreg_year==EAP_dem1999 regdum146 region_initreg_year==EAP_dem2000 regdum147 region_initreg_year==EAP_dem2001 regdum148 region_initreg_year==EAP_dem2004 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2005	regdum108	$region_initreg_year == EAP_dem1965$
regdum111 region_initreg_year==EAP_dem1968 regdum112 region_initreg_year==EAP_dem1969 regdum113 region_initreg_year==EAP_dem1970 regdum114 region_initreg_year==EAP_dem1971 regdum115 region_initreg_year==EAP_dem1971 regdum116 region_initreg_year==EAP_dem1973 regdum117 regdum118 region_initreg_year==EAP_dem1974 regdum118 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 regdum126 region_initreg_year==EAP_dem1982 regdum127 region_initreg_year==EAP_dem1984 regdum128 regdum129 region_initreg_year==EAP_dem1984 regdum129 regdum130 region_initreg_year==EAP_dem1986 regdum131 region_initreg_year==EAP_dem1987 regdum132 region_initreg_year==EAP_dem1987 regdum133 region_initreg_year==EAP_dem1989 regdum134 region_initreg_year==EAP_dem1990 regdum135 region_initreg_year==EAP_dem1990 regdum136 region_initreg_year==EAP_dem1991 regdum137 region_initreg_year==EAP_dem1991 regdum138 region_initreg_year==EAP_dem1993 regdum139 region_initreg_year==EAP_dem1994 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum144 region_initreg_year==EAP_dem1999 regdum145 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum144 region_initreg_year==EAP_dem2001 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2001 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2005 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2005	regdum109	$region_initreg_year == EAP_dem 1966$
regdum112 region_initregyear==EAP_dem1969 regdum113 region_initregyear==EAP_dem1970 regdum114 region_initregyear==EAP_dem1971 regdum115 region_initregyear==EAP_dem1972 regdum116 region_initregyear==EAP_dem1973 regdum117 region_initregyear==EAP_dem1974 regdum118 region_initregyear==EAP_dem1975 regdum119 region_initregyear=EAP_dem1976 regdum120 region_initregyear=EAP_dem1976 regdum121 region_initregyear=EAP_dem1978 regdum122 region_initregyear=EAP_dem1978 regdum123 region_initregyear=EAP_dem1980 regdum124 region_initregyear=EAP_dem1980 regdum125 region_initregyear=EAP_dem1981 regdum126 region_initregyear=EAP_dem1983 regdum127 region_initregyear=EAP_dem1984 regdum128 region_initregyear=EAP_dem1985 regdum129 region_initregyear=EAP_dem1986 regdum130 region_initregyear=EAP_dem1988 regdum131 region_initregyear=EAP_dem1989 regdum133 region_initregyear=EAP_dem1991		
regdum113	regdum111	$region_initreg_year == EAP_dem 1968$
regdum114 regdum115 regdum116 regdum117 regdum117 regdum117 region_initreg_year==EAP_dem1972 regdum118 region_initreg_year==EAP_dem1973 regdum118 region_initreg_year==EAP_dem1974 regdum119 region_initreg_year==EAP_dem1975 regdum120 region_initreg_year==EAP_dem1976 regdum121 region_initreg_year==EAP_dem1977 regdum122 region_initreg_year==EAP_dem1978 regdum123 region_initreg_year==EAP_dem1979 regdum124 region_initreg_year==EAP_dem1979 regdum125 regdum126 region_initreg_year==EAP_dem1980 regdum127 region_initreg_year==EAP_dem1983 regdum128 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1988 regdum131 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1989 regdum134 region_initreg_year==EAP_dem1990 regdum135 regdum136 region_initreg_year==EAP_dem1991 regdum137 region_initreg_year==EAP_dem1992 regdum138 region_initreg_year==EAP_dem1993 regdum139 regdum137 region_initreg_year==EAP_dem1995 regdum138 region_initreg_year==EAP_dem1996 regdum139 region_initreg_year==EAP_dem1997 regdum140 region_initreg_year==EAP_dem1998 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1998 regdum143 region_initreg_year==EAP_dem1996 regdum144 region_initreg_year==EAP_dem1997 regdum145 region_initreg_year==EAP_dem1998 regdum146 region_initreg_year==EAP_dem2000 regdum147 region_initreg_year==EAP_dem2001 regdum148 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2001 region_initreg_year==EAP_dem2005 region_initreg_year==EAP_dem2005 region_initreg_year==EAP_dem2005	regdum112	$region_initreg_year == EAP_dem1969$
regdum115 region_initreg_year==EAP_dem1972 regdum116 region_initreg_year==EAP_dem1973 regdum117 region_initreg_year==EAP_dem1974 regdum118 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1981 regdum126 region_initreg_year==EAP_dem1982 regdum127 region_initreg_year==EAP_dem1985 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1989 regdum132 region_initreg_year==EAP_dem1990 regdum133 region_initreg_year==EAP_dem1991 regdum134 region_initreg_year==EAP_dem1992 regdum135 region_initreg_year==EAP_dem1994 regdum1	regdum113	$region_initreg_year == EAP_dem 1970$
regdum116 region_initreg_year==EAP_dem1973 regdum117 region_initreg_year==EAP_dem1974 regdum118 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1980 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1981 regdum126 region_initreg_year==EAP_dem1982 regdum127 region_initreg_year==EAP_dem1983 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1987 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1989 regdum132 region_initreg_year==EAP_dem1990 regdum133 region_initreg_year==EAP_dem1991 regdum134 region_initreg_year==EAP_dem1992 regdum135 region_initreg_year==EAP_dem1993 regdum136 region_initreg_year==EAP_dem1995 regdum1	regdum114	
regdum117 region_initreg_year==EAP_dem1974 regdum118 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1980 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1985 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1989 regdum132 region_initreg_year==EAP_dem1990 regdum133 region_initreg_year==EAP_dem1991 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1995 regdum137 region_initreg_year==EAP_dem1996 regdum1	0	0 0
regdum118 region_initreg_year==EAP_dem1975 regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year=EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum130 region_initreg_year==EAP_dem1986 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1980 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1995 regdum138 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum14	0	9 1
regdum119 region_initreg_year==EAP_dem1976 regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year=EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1988 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1990 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum14	0	
regdum120 region_initreg_year==EAP_dem1977 regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1994 regdum137 region_initreg_year==EAP_dem1995 regdum138 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum1	regdum118	$region_initreg_year == EAP_dem 1975$
regdum121 region_initreg_year==EAP_dem1978 regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1990 regdum133 region_initreg_year==EAP_dem1991 regdum134 region_initreg_year==EAP_dem1992 regdum135 region_initreg_year==EAP_dem1993 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1995 regdum138 region_initreg_year==EAP_dem1995 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum144 region_initreg_year==EAP_dem200 regdum14	regdum119	9 4
regdum122 region_initreg_year==EAP_dem1979 regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1995 regdum138 region_initreg_year==EAP_dem1995 regdum140 region_initreg_year==EAP_dem1996 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum1	regdum120	9 4
regdum123 region_initreg_year==EAP_dem1980 regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1980 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum140 region_initreg_year==EAP_dem1996 regdum141 region_initreg_year==EAP_dem1997 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum1	regdum121	$region_initreg_year == EAP_dem 1978$
regdum124 region_initreg_year==EAP_dem1981 regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1990 regdum135 region_initreg_year==EAP_dem1991 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem1999 regdum144 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2001 regdum146 region_initreg_year==EAP_dem2002 regdum147 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum122	$region_initreg_year == EAP_dem 1979$
regdum125 region_initreg_year==EAP_dem1982 regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum140 region_initreg_year==EAP_dem1996 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum1	regdum123	$region_initreg_year == EAP_dem 1980$
regdum126 region_initreg_year==EAP_dem1983 regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2005 regdum1	regdum124	
regdum127 region_initreg_year==EAP_dem1984 regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem2000 regdum143 region_initreg_year==EAP_dem2001 regdum144 region_initreg_year==EAP_dem2002 regdum145 region_initreg_year==EAP_dem2003 regdum146 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum1	regdum125	$region_initreg_year == EAP_dem1982$
regdum128 region_initreg_year==EAP_dem1985 regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2005 regdum148 region_initreg_year==EAP_dem2006	regdum126	$region_initreg_year == EAP_dem1983$
regdum129 region_initreg_year==EAP_dem1986 regdum130 region_initreg_year==EAP_dem1987 regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2005 region_initreg_year==EAP_dem2005 region_initreg_year==EAP_dem2006	© .	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
regdum130 regioninitregyear==EAPdem1987 regdum131 regioninitregyear==EAPdem1988 regdum132 regioninitregyear==EAPdem1989 regdum133 regioninitregyear==EAPdem1990 regdum134 regioninitregyear==EAPdem1991 regdum135 regioninitregyear==EAPdem1992 regdum136 regioninitregyear==EAPdem1993 regdum137 regioninitregyear==EAPdem1994 regdum138 regioninitregyear==EAPdem1995 regdum140 regioninitregyear==EAPdem1996 regdum141 regioninitregyear==EAPdem1998 regdum142 regioninitregyear==EAPdem1999 regdum143 regioninitregyear==EAPdem2000 regdum144 regioninitregyear==EAPdem2001 regdum145 regioninitregyear==EAPdem2002 regdum146 regioninitregyear==EAPdem2004 regdum147 regioninitregyear==EAPdem2004 regdum148 regioninitregyear==EAPdem2005 regdum149 regioninitregyear==EAPdem2006	regdum128	$region_initreg_year == EAP_dem 1985$
regdum131 region_initreg_year==EAP_dem1988 regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem2000 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2004 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum129	$region_initreg_year == EAP_dem 1986$
regdum132 region_initreg_year==EAP_dem1989 regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum130	$region_initreg_year == EAP_dem1987$
regdum133 region_initreg_year==EAP_dem1990 regdum134 region_initreg_year==EAP_dem1991 regdum135 region_initreg_year==EAP_dem1992 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum131	
regdum134 regdum135 region_initreg_year==EAP_dem1991 regdum136 region_initreg_year==EAP_dem1993 regdum137 region_initreg_year==EAP_dem1994 regdum138 region_initreg_year==EAP_dem1995 regdum139 regdum140 region_initreg_year==EAP_dem1996 regdum141 region_initreg_year==EAP_dem1997 regdum142 region_initreg_year==EAP_dem1998 regdum143 region_initreg_year==EAP_dem1999 regdum144 region_initreg_year==EAP_dem2000 regdum145 region_initreg_year==EAP_dem2001 regdum146 region_initreg_year==EAP_dem2002 regdum147 region_initreg_year==EAP_dem2003 regdum148 region_initreg_year==EAP_dem2004 regdum149 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum132	
regdum135 regioninitregyear==EAPdem1992 regdum136 regioninitregyear==EAPdem1993 regdum137 regioninitregyear==EAPdem1994 regdum138 regioninitregyear==EAPdem1995 regdum139 regioninitregyear==EAPdem1996 regdum140 regioninitregyear==EAPdem1997 regdum141 regioninitregyear==EAPdem1998 regdum142 regioninitregyear==EAPdem1999 regdum143 regioninitregyear==EAPdem2000 regdum144 regioninitregyear==EAPdem2001 regdum145 regioninitregyear==EAPdem2002 regdum146 regioninitregyear==EAPdem2003 regdum147 regioninitregyear==EAPdem2004 regdum148 regioninitregyear==EAPdem2005 regdum149 regioninitregyear==EAPdem2006	regdum133	$region_initreg_year == EAP_dem 1990$
regdum136 regioninitregyear==EAPdem1993 regdum137 regioninitregyear==EAPdem1994 regdum138 regioninitregyear==EAPdem1995 regdum139 regioninitregyear==EAPdem1996 regdum140 regioninitregyear==EAPdem1997 regdum141 regioninitregyear==EAPdem1998 regdum142 regioninitregyear==EAPdem1999 regdum143 regioninitregyear==EAPdem2000 regdum144 regioninitregyear==EAPdem2001 regdum145 regioninitregyear==EAPdem2002 regdum146 regioninitregyear==EAPdem2004 regdum147 regioninitregyear==EAPdem2005 regdum148 regioninitregyear==EAPdem2006 regioninitregyear==EAPdem2006	regdum134	
regdum137 regioninitregyear==EAPdem1994 regdum138 regioninitregyear==EAPdem1995 regdum139 regioninitregyear==EAPdem1996 regdum140 regioninitregyear==EAPdem1997 regdum141 regioninitregyear==EAPdem1998 regdum142 regioninitregyear==EAPdem1999 regdum143 regioninitregyear==EAPdem2000 regdum144 regioninitregyear==EAPdem2001 regdum145 regioninitregyear==EAPdem2002 regdum146 regioninitregyear==EAPdem2003 regdum147 regioninitregyear==EAPdem2004 regdum148 regioninitregyear==EAPdem2005 regdum149 regioninitregyear==EAPdem2006	S	
regdum138 region_initreg_year==EAP_dem1995 regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum136	
regdum139 region_initreg_year==EAP_dem1996 regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	9	9 — 9— —
regdum140 region_initreg_year==EAP_dem1997 regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum138	$region_initreg_year == EAP_dem 1995$
regdum141 region_initreg_year==EAP_dem1998 regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum139	<u> </u>
regdum142 region_initreg_year==EAP_dem1999 regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum140	
regdum143 region_initreg_year==EAP_dem2000 regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum141	
regdum144 region_initreg_year==EAP_dem2001 regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum 142	
regdum145 region_initreg_year==EAP_dem2002 regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum143	$region_initreg_year == EAP_dem 2000$
regdum146 region_initreg_year==EAP_dem2003 regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum144	
regdum147 region_initreg_year==EAP_dem2004 regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum145	<u> </u>
regdum148 region_initreg_year==EAP_dem2005 regdum149 region_initreg_year==EAP_dem2006	regdum146	9 4
regdum149 region_initreg_year==EAP_dem2006	regdum147	
0 — 0— —	regdum148	$region_initreg_year == EAP_dem 2005$
region initrog year—FAD dom2007	regdum149	$region_initreg_year == EAP_dem 2006$
0 = 0=	regdum150	$region_initreg_year == EAP_dem 2007$
$regdum 151 region_initreg_year == EAP_dem 2008$	regdum151	region initreg year==EAP dem2008

Table 4: List of Variables (continued)

rariable	label
egdum152	$region_initreg_year == EAP_dem 2009$
egdum153	$region_initreg_year == EAP_dem 2010$
egdum154	region_initreg_year==EAP_nd1960
egdum155	region_initreg_year==EAP_nd1961
egdum156	region_initreg_year==EAP_nd1962
egdum157	$region_initreg_year == EAP_nd1963$
egdum158	$region_initreg_year == EAP_nd1964$
egdum159	$region_initreg_year == EAP_nd1965$
egdum160	$region_initreg_year == EAP_nd1966$
egdum161	$region_initreg_year == EAP_nd1967$
egdum162	$region_initreg_year == EAP_nd1968$
egdum163	$region_initreg_year == EAP_nd1969$
egdum164	$region_initreg_year == EAP_nd1970$
egdum165	$region_initreg_year == EAP_nd1971$
egdum166	$region_initreg_year == EAP_nd1972$
egdum167	$region_initreg_year == EAP_nd1973$
egdum168	$region_initreg_year == EAP_nd1974$
egdum169	$region_initreg_year == EAP_nd1975$
egdum170	$region_initreg_year == EAP_nd1976$
egdum171	region_initreg_year==EAP_nd1977
egdum172	region_initreg_year==EAP_nd1978
egdum173	$region_initreg_year == EAP_nd1979$
egdum174	$region_initreg_year == EAP_nd1980$
egdum175	region_initreg_year==EAP_nd1981
egdum176	$region_initreg_year == EAP_nd1982$
egdum177	$region_initreg_year == EAP_nd1983$
egdum178	$region_initreg_year == EAP_nd1984$
egdum179	$region_initreg_year == EAP_nd1985$
egdum180	$region_initreg_year == EAP_nd1986$
egdum181	$region_initreg_year == EAP_nd1987$
egdum182	$region_initreg_year == EAP_nd1988$
egdum183	$region_initreg_year == EAP_nd1989$
egdum184	$region_initreg_year == EAP_nd1990$
egdum185	$region_initreg_year == EAP_nd1991$
egdum186	$region_initreg_year == EAP_nd1992$
egdum187	$region_initreg_year == EAP_nd1993$
egdum188	$region_initreg_year == EAP_nd1994$
egdum189	$region_initreg_year == EAP_nd1995$
egdum190	$region_initreg_year == EAP_nd1996$
egdum191	$region_initreg_year == EAP_nd1997$
egdum192	$region_initreg_year == EAP_nd1998$
egdum193	$region_initreg_year == EAP_nd1999$
egdum194	$region_initreg_year == EAP_nd2000$
egdum195	$region_initreg_year == EAP_nd2001$
egdum196	$region_initreg_year == EAP_nd2002$
egdum197	$region_initreg_year == EAP_nd2003$
egdum198	region initreg year==EAP nd2004

Table 4: List of Variables (continued)

variable	label
regdum199	$region_initreg_year == EAP_nd2005$
regdum200	$region_initreg_year == EAP_nd2006$
regdum201	$region_initreg_year == EAP_nd2007$
regdum202	region_initreg_year==EAP_nd2008
regdum203	$region_initreg_year == EAP_nd2009$
regdum204	region_initreg_year==EAP_nd2010
regdum205	region_initreg_year==ECA_nd1960
regdum206	region initreg year==ECA nd1961
regdum207	region_initreg_year==ECA_nd1962
regdum208	region_initreg_year==ECA_nd1963
regdum209	region_initreg_year==ECA_nd1964
regdum210	region_initreg_year==ECA_nd1965
regdum211	region_initreg_year==ECA_nd1966
regdum212	region_initreg_year==ECA_nd1967
regdum213	region initreg year==ECA nd1968
9	
regdum214	region_initreg_year==ECA_nd1969
regdum215	region_initreg_year==ECA_nd1970
regdum216	region_initreg_year==ECA_nd1971
regdum217	region_initreg_year==ECA_nd1972
regdum218	$region_initreg_year == ECA_nd1973$
regdum219	$region_initreg_year == ECA_nd1974$
regdum220	$region_initreg_year == ECA_nd1975$
regdum221	$region_initreg_year == ECA_nd1976$
regdum222	$region_initreg_year == ECA_nd1977$
regdum223	$region_initreg_year == ECA_nd1978$
regdum224	region_initreg_year==ECA_nd1979
regdum225	$region_initreg_year == ECA_nd1980$
regdum226	region_initreg_year==ECA_nd1981
regdum227	$region_initreg_year == ECA_nd1982$
regdum228	$region_initreg_year == ECA_nd1983$
regdum229	region_initreg_year==ECA_nd1984
regdum230	region_initreg_year==ECA_nd1985
regdum231	region_initreg_year==ECA_nd1986
regdum232	region_initreg_year==ECA_nd1987
regdum233	$region_initreg_year == ECA_nd1988$
regdum234	region_initreg_year==ECA_nd1989
regdum235	region_initreg_year==ECA_nd1990
regdum236	region_initreg_year==ECA_nd1991
regdum237	region_initreg_year==ECA_nd1992
regdum238	region_initreg_year==ECA_nd1993
regdum239	region_initreg_year==ECA_nd1994
regdum240	region_initreg_year==ECA_nd1995
regdum241	region_initreg_year==ECA_nd1996
regdum242	region_initreg_year==ECA_nd1997
regdum243	region initreg year==ECA nd1998
9	
regdum244	region_initreg_year==ECA_nd1999

Table 4: List of Variables (continued)

variable	label
regdum 245	${\rm region_initreg_year}{=}{\rm ECA_nd2000}$
regdum246	$region_initreg_year == ECA_nd2001$
regdum247	$region_initreg_year == ECA_nd2002$
regdum248	$region_initreg_year == ECA_nd2003$
regdum249	$region_initreg_year == ECA_nd2004$
regdum250	$region_initreg_year == ECA_nd2005$
regdum251	$region_initreg_year == ECA_nd2006$
regdum252	$region_initreg_year == ECA_nd2007$
regdum253	$region_initreg_year == ECA_nd2008$
regdum 254	$region_initreg_year == ECA_nd2009$
regdum255	$region_initreg_year == ECA_nd2010$
regdum256	$region_initreg_year == INL_dem 1960$
regdum257	$region_initreg_year == INL_dem 1961$
regdum258	$region_initreg_year == INL_dem 1962$
regdum259	$region_initreg_year == INL_dem 1963$
regdum260	$region_initreg_year == INL_dem 1964$
regdum261	$region_initreg_year == INL_dem 1965$
regdum262	$region_initreg_year == INL_dem 1966$
regdum263	$region_initreg_year == INL_dem 1967$
regdum 264	$region_initreg_year == INL_dem 1968$
regdum265	$region_initreg_year == INL_dem 1969$
regdum266	$region_initreg_year == INL_dem 1970$
regdum267	$region_initreg_year == INL_dem 1971$
regdum268	$region_initreg_year == INL_dem 1972$
regdum 269	$region_initreg_year == INL_dem 1973$
regdum270	$region_initreg_year == INL_dem 1974$
regdum271	$region_initreg_year == INL_dem 1975$
regdum272	$region_initreg_year == INL_dem 1976$
regdum273	$region_initreg_year == INL_dem 1977$
regdum274	$region_initreg_year == INL_dem 1978$
regdum275	$region_initreg_year == INL_dem 1979$
regdum276	$region_initreg_year == INL_dem 1980$
regdum277	region_initreg_year==INL_dem1981
regdum278	$region_initreg_year == INL_dem 1982$
regdum279	$region_initreg_year == INL_dem 1983$
regdum280	$region_initreg_year == INL_dem 1984$
regdum281	region_initreg_year==INL_dem1985
regdum282	region_initreg_year==INL_dem1986
regdum283	$region_initreg_year == INL_dem 1987$
regdum284	$region_initreg_year == INL_dem 1988$
regdum285	$region_initreg_year == INL_dem 1989$
regdum286	$region_initreg_year == INL_dem 1990$
regdum287	$region_initreg_year == INL_dem 1991$
regdum288	$region_initreg_year == INL_dem 1992$
regdum289	region_initreg_year==INL_dem1993
0	- *
regdum290 regdum291	region_initreg_year==INL_dem1994 region_initreg_year==INL_dem1995

Table 4: List of Variables (continued)

variable	label	
regdum292	${\rm region_initreg_year}{=}{=}{\rm INL_dem}1996$	
regdum 293	$region_initreg_year == INL_dem 1997$	
regdum294	region_initreg_year==INL_dem1998	
regdum295	region_initreg_year==INL_dem1999	
regdum296	region_initreg_year==INL_dem2000	
regdum297	region_initreg_year==INL_dem2001	
regdum298	${\rm region_initreg_year}{=}{=}{\rm INL_dem}2002$	
regdum299	region_initreg_year==INL_dem2003	
regdum300	region_initreg_year==INL_dem2004	
regdum301	$region_initreg_year == INL_dem 2005$	
regdum302	$region_initreg_year == INL_dem 2006$	
regdum303	$region_initreg_year == INL_dem 2007$	
regdum304	region_initreg_year==INL_dem2008	
regdum305	region_initreg_year==INL_dem2009	
regdum306	region_initreg_year==INL_dem2010	
regdum307	$region_initreg_year == INL_nd1960$	
regdum308	$region_initreg_year == INL_nd1961$	
regdum309	$region_initreg_year == INL_nd1962$	
regdum310	$region_initreg_year == INL_nd1963$	
regdum311	$region_initreg_year == INL_nd1964$	
regdum312	$region_initreg_year == INL_nd1965$	
regdum313	$region_initreg_year == INL_nd1966$	
regdum314	$region_initreg_year == INL_nd1967$	
regdum315	$region_initreg_year == INL_nd1968$	
regdum316	region_initreg_year==INL_nd1969	
regdum317	region_initreg_year==INL_nd1970	
regdum318	region_initreg_year==INL_nd1971	
regdum319	region_initreg_year==INL_nd1972	
regdum320	region_initreg_year==INL_nd1973	
regdum321	region_initreg_year==INL_nd1974	
regdum322	region_initreg_year==INL_nd1975	
regdum323	$region_initreg_year == INL_nd1976$	
regdum324	region_initreg_year==INL_nd1977	
regdum325	region_initreg_year==INL_nd1978	
regdum326	region_initreg_year==INL_nd1979	
regdum327	region_initreg_year==INL_nd1980	
regdum328	region_initreg_year==INL_nd1981	
regdum329	region_initreg_year==INL_nd1982	
regdum330	region_initreg_year==INL_nd1983	
regdum331	region_initreg_year==INL_nd1984	
regdum332	region_initreg_year==INL_nd1985	
regdum333	region_initreg_year==INL_nd1986	
regdum334	region_initreg_year==INL_nd1987	
regdum335	region_initreg_year==INL_nd1988	
regdum336	region_initreg_year==INL_nd1989	
regdum337	region_initreg_year==INL_nd1990	
regdum338	$region_initreg_year == INL_nd1991$	

Table 4: List of Variables (continued)

variable	label	
regdum339	region_initreg_year==INL_nd1992	
regdum340	region_initreg_year==INL_nd1993	
regdum341	region_initreg_year==INL_nd1994	
regdum342	region_initreg_year==INL_nd1995	
regdum343	region_initreg_year==INL_nd1996	
regdum344	region_initreg_year==INL_nd1997	
regdum345	region_initreg_year==INL_nd1998	
regdum346	region_initreg_year==INL_nd1999	
regdum347	region_initreg_year==INL_nd2000	
regdum348	region_initreg_year==INL_nd2001	
regdum349	region_initreg_year==INL_nd2002	
regdum350	region_initreg_year==INL_nd2003	
regdum351	region_initreg_year==INL_nd2004	
regdum352	region_initreg_year==INL_nd2005	
regdum353	region initreg year==INL nd2006	
regdum354	region_initreg_year==INL_nd2007	
regdum355	region_initreg_year==INL_nd2007 region_initreg_year==INL_nd2008	
regdum356	region_initreg_year==INL_nd2009	
regdum357	region initreg year==INL nd2010	
regdum358	region_initreg_year==LAC_dem1960	
regdum359	region_initreg_year==LAC_dem1961	
regdum360	region_initreg_year==LAC_dem1962	
regdum361	region_initreg_year==LAC_dem1963	
regdum362 regdum363	region_initreg_year==LAC_dem1964 region_initreg_year==LAC_dem1965	
regdum364	region_initreg_year==LAC_dem1966	
regdum365	region_initreg_year==LAC_dem1967	
regdum366	region_initreg_year==LAC_dem1968	
regdum367	region_initreg_year==LAC_dem1969	
regdum368	$region_initreg_year == LAC_dem 1970$	
regdum369	$region_initreg_year == LAC_dem 1971$	
regdum370	$region_initreg_year == LAC_dem 1972$	
regdum371	$region_initreg_year == LAC_dem 1973$	
regdum372	$region_initreg_year == LAC_dem 1974$	
regdum373	$region_initreg_year == LAC_dem 1975$	
regdum374	$region_initreg_year == LAC_dem 1976$	
regdum375	$region_initreg_year == LAC_dem 1977$	
regdum376	$region_initreg_year == LAC_dem 1978$	
regdum377	$region_initreg_year == LAC_dem 1979$	
regdum378	$region_initreg_year == LAC_dem 1980$	
regdum379	$region_initreg_year == LAC_dem1981$	
regdum380	$region_initreg_year == LAC_dem1982$	
regdum381	$region_initreg_year == LAC_dem 1983$	
regdum382	$region_initreg_year == LAC_dem 1984$	
regdum383	$region_initreg_year == LAC_dem 1985$	
regdum384	region_initreg_year==LAC_dem1986	
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Table 4: List of Variables (continued)

region_initreg_year==LAC_dem1992
region_initreg_year==LAC_dem1992
region_initreg_year==LAC_dem1993
region_initreg_year==LAC_dem1994
region_initreg_year==LAC_dem1995 gdum394 region_initreg_year==LAC_dem1996 region_initreg_year==LAC_dem1997 region_initreg_year==LAC_dem1998 region_initreg_year==LAC_dem1998 region_initreg_year==LAC_dem1999 region_initreg_year==LAC_dem2000 region_initreg_year==LAC_dem2001 region_initreg_year==LAC_dem2001 region_initreg_year==LAC_dem2002 region_initreg_year==LAC_dem2003 region_initreg_year==LAC_dem2003 region_initreg_year==LAC_dem2004 region_initreg_year==LAC_dem2005 region_initreg_year==LAC_dem2005 region_initreg_year==LAC_dem2006 region_initreg_year==LAC_dem2007 region_initreg_year==LAC_dem2007 region_initreg_year==LAC_dem2008 region_initreg_year==LAC_dem2009 region_initreg_year==LAC_dem2009 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_nd1960 region_initreg_year==LAC_nd1961 region_initreg_year==LAC_nd1962 region_initreg_year==LAC_nd1963 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1972 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_dem1997
region_initreg_year==LAC_dem1997
region_initreg_year==LAC_dem1998 region_initreg_year==LAC_dem1999 region_initreg_year==LAC_dem2000 region_initreg_year==LAC_dem2001 region_initreg_year==LAC_dem2001 region_initreg_year==LAC_dem2002 region_initreg_year==LAC_dem2003 region_initreg_year==LAC_dem2003 region_initreg_year==LAC_dem2004 region_initreg_year==LAC_dem2004 region_initreg_year==LAC_dem2005 region_initreg_year==LAC_dem2006 region_initreg_year==LAC_dem2006 region_initreg_year==LAC_dem2007 region_initreg_year==LAC_dem2008 region_initreg_year==LAC_dem2009 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_nd1960 region_initreg_year==LAC_nd1961 region_initreg_year==LAC_nd1962 region_initreg_year==LAC_nd1963 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1967 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972 region_initreg_year
gdum397 region_initreg_year==LAC_dem1999 gdum398 region_initreg_year==LAC_dem2000 gdum409 region_initreg_year==LAC_dem2001 gdum400 region_initreg_year==LAC_dem2002 gdum401 region_initreg_year==LAC_dem2003 gdum402 region_initreg_year==LAC_dem2004 gdum403 region_initreg_year==LAC_dem2005 gdum404 region_initreg_year==LAC_dem2006 gdum405 region_initreg_year==LAC_dem2007 gdum406 region_initreg_year==LAC_dem2008 gdum407 region_initreg_year==LAC_dem2009 gdum408 region_initreg_year==LAC_dem2010 gdum409 region_initreg_year==LAC_nd1960 gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1966 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1968 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1970 </td
gdum398 region_initreg_year==LAC_dem2000 gdum399 region_initreg_year==LAC_dem2001 gdum400 region_initreg_year==LAC_dem2002 gdum401 region_initreg_year==LAC_dem2003 gdum402 region_initreg_year==LAC_dem2004 gdum403 region_initreg_year==LAC_dem2005 gdum404 region_initreg_year==LAC_dem2006 gdum405 region_initreg_year==LAC_dem2007 gdum406 region_initreg_year==LAC_dem2009 gdum407 region_initreg_year==LAC_dem2009 gdum408 region_initreg_year==LAC_nd1960 gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1966 gdum415 region_initreg_year==LAC_nd1968 gdum416 region_initreg_year==LAC_nd1968 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1971
gdum400 region_initreg_year==LAC_dem2002 gdum401 region_initreg_year==LAC_dem2003 gdum402 region_initreg_year==LAC_dem2004 gdum403 region_initreg_year==LAC_dem2005 gdum404 region_initreg_year==LAC_dem2006 gdum405 region_initreg_year==LAC_dem2007 gdum406 region_initreg_year==LAC_dem2008 gdum407 region_initreg_year==LAC_dem2009 gdum408 region_initreg_year==LAC_nd1960 gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1970 gdum419 region_initreg_year==LAC_nd1971 gdum420 region_initreg_year==LAC_nd1972
gdum400 region_initreg_year==LAC_dem2002 gdum401 region_initreg_year==LAC_dem2003 gdum402 region_initreg_year==LAC_dem2004 gdum403 region_initreg_year==LAC_dem2005 gdum404 region_initreg_year==LAC_dem2006 gdum405 region_initreg_year==LAC_dem2007 gdum406 region_initreg_year==LAC_dem2008 gdum407 region_initreg_year==LAC_dem2009 gdum408 region_initreg_year==LAC_nd1960 gdum409 region_initreg_year==LAC_nd1961 gdum410 region_initreg_year==LAC_nd1962 gdum411 region_initreg_year==LAC_nd1963 gdum412 region_initreg_year==LAC_nd1964 gdum413 region_initreg_year==LAC_nd1965 gdum414 region_initreg_year==LAC_nd1966 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1969 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_dem2003 region_initreg_year==LAC_dem2004 region_initreg_year==LAC_dem2005 region_initreg_year==LAC_dem2005 region_initreg_year==LAC_dem2006 region_initreg_year==LAC_dem2007 region_initreg_year==LAC_dem2008 region_initreg_year==LAC_dem2009 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_nd1960 region_initreg_year==LAC_nd1961 region_initreg_year==LAC_nd1962 region_initreg_year==LAC_nd1963 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1965 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1967 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972 region_initreg_year==LAC_nd1972
gdum402 region_initreg_year==LAC_dem2004 gdum403 region_initreg_year==LAC_dem2005 gdum404 region_initreg_year==LAC_dem2006 gdum405 region_initreg_year==LAC_dem2007 gdum406 region_initreg_year==LAC_dem2008 gdum407 region_initreg_year==LAC_dem2009 gdum408 region_initreg_year==LAC_dem2010 gdum409 region_initreg_year==LAC_nd1960 gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1963 gdum412 region_initreg_year==LAC_nd1964 gdum413 region_initreg_year==LAC_nd1965 gdum414 region_initreg_year==LAC_nd1966 gdum415 region_initreg_year==LAC_nd1967 gdum416 region_initreg_year==LAC_nd1968 gdum417 region_initreg_year==LAC_nd1969 gdum418 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_dem2005 gdum404 region_initreg_year==LAC_dem2006 gdum405 region_initreg_year==LAC_dem2007 gdum406 region_initreg_year==LAC_dem2008 gdum407 region_initreg_year==LAC_dem2009 gdum408 region_initreg_year==LAC_dem2010 gdum409 region_initreg_year==LAC_nd1960 gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 region_initreg_year==LAC_nd1968 gdum417 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972
gdum404 region_initreg_year==LAC_dem2006 gdum405 region_initreg_year==LAC_dem2007 gdum406 region_initreg_year==LAC_dem2008 gdum407 region_initreg_year==LAC_dem2009 gdum408 region_initreg_year==LAC_dem2010 gdum409 region_initreg_year==LAC_nd1960 gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_dem2007 region_initreg_year==LAC_dem2008 region_initreg_year==LAC_dem2009 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_nd1960 region_initreg_year==LAC_nd1961 region_initreg_year==LAC_nd1962 region_initreg_year==LAC_nd1963 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1965 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1967 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_dem2008 region_initreg_year==LAC_dem2009 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_dem2010 region_initreg_year==LAC_nd1960 region_initreg_year==LAC_nd1961 region_initreg_year==LAC_nd1962 region_initreg_year==LAC_nd1963 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1965 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1967 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972 region_initreg_year==LAC_nd1972
gdum407 region_initreg_year==LAC_dem2009 gdum408 region_initreg_year==LAC_dem2010 gdum409 region_initreg_year==LAC_nd1960 gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1970 gdum419 region_initreg_year==LAC_nd1971 gdum420 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_dem2010 region_initreg_year==LAC_nd1960 region_initreg_year==LAC_nd1961 region_initreg_year==LAC_nd1962 region_initreg_year==LAC_nd1963 region_initreg_year==LAC_nd1964 region_initreg_year==LAC_nd1965 region_initreg_year==LAC_nd1966 region_initreg_year==LAC_nd1967 region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972
gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
gdum410 region_initreg_year==LAC_nd1961 gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
gdum411 region_initreg_year==LAC_nd1962 gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
gdum412 region_initreg_year==LAC_nd1963 gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
gdum413 region_initreg_year==LAC_nd1964 gdum414 region_initreg_year==LAC_nd1965 gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
gdum415 region_initreg_year==LAC_nd1966 gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
gdum416 region_initreg_year==LAC_nd1967 gdum417 region_initreg_year==LAC_nd1968 gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_nd1968 region_initreg_year==LAC_nd1969 region_initreg_year==LAC_nd1970 region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972
gdum418 region_initreg_year==LAC_nd1969 gdum419 region_initreg_year==LAC_nd1970 gdum420 region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_nd1971 region_initreg_year==LAC_nd1972
region_initreg_year==LAC_nd1971 gdum421 region_initreg_year==LAC_nd1972
$rgdum421$ $region_initreg_year == LAC_nd1972$
region_initreg_year==LAC_nd1974
gdum424 region_initreg_year==LAC_nd1975
gdum425 region_initreg_year==LAC_nd1976
gdum426 region_initreg_year==LAC_nd1977
gdum427 region_initreg_year==LAC_nd1978
gdum428 region_initreg_year==LAC_nd1979
gdum429 region_initreg_year==LAC_nd1980
gdum430 region_initreg_year==LAC_nd1981
gdum431 region initreg year==LAC nd1982
gdum451 region_initreg_year==LAU_nd1982

Table 4: List of Variables (continued)

regdum432 region initreg_vear==LAC_nd1984 regdum433 region initreg_vear==LAC_nd1984 regdum434 region initreg_vear==LAC_nd1985 regdum435 region initreg_vear==LAC_nd1986 regdum437 region_initreg_vear==LAC_nd1988 regdum438 region_initreg_vear==LAC_nd1988 regdum439 region_initreg_vear==LAC_nd1989 regdum440 region_initreg_vear==LAC_nd1990 regdum441 region_initreg_vear==LAC_nd1991 regdum442 region_initreg_vear==LAC_nd1992 regdum443 region_initreg_vear==LAC_nd1994 regdum444 region_initreg_vear==LAC_nd1994 regdum444 region_initreg_vear==LAC_nd1995 regdum446 region_initreg_vear==LAC_nd1996 regdum447 region_initreg_vear==LAC_nd1997 regdum448 region_initreg_vear==LAC_nd1999 regdum449 region_initreg_vear==LAC_nd2000 regdum450 region_initreg_vear==LAC_nd2000 regdum451 region_initreg_vear==LAC_nd2000 regdum452 region_initreg_vear==LAC_nd2000 regdum453 region_initreg_vear==LAC_nd2000 regdum454 region_initreg_vear==LAC_nd2000 regdum455 region_initreg_vear==LAC_nd2000 regdum456 region_initreg_vear==LAC_nd2000 regdum457 region_initreg_vear==LAC_nd2000 regdum458 region_initreg_vear==LAC_nd2000 regdum459 region_initreg_vear==LAC_nd2000 regdum450 region_initreg_vear==LAC_nd2000 regdum450 region_initreg_vear==LAC_nd2000 regdum450 region_initreg_vear==LAC_nd2000 regdum450 region_initreg_vear==MAC_du2006 regdum460 region_initreg_vear==MAC_du2006 regdum460 region_initreg_vear==MAC_du2007 regdum461 region_initreg_vear==MAC_du2008 regdum462 region_initreg_vear==MAC_du2009 regdum463 region_initreg_vear==MAC_du2006 regdum464 region_initreg_vear==MAC_du2006 regdum465 region_initreg_vear==MAC_du2006 regdum466 region_initreg_vear==MAC_du2007 regdum470 region_initreg_vear=MAC_du2007 regdum471 region_initreg_vear=MAC_du2007 regdum472 region_initreg_vear=MAC_du2007 regdum473 region_initreg_vear=MAC	variable	label	
regdum434 region_initreg_year==LAC_nd1985 regdum436 region_initreg_year==LAC_nd1986 regdum437 region_initreg_year==LAC_nd1987 regdum438 region_initreg_year==LAC_nd1988 regdum438 region_initreg_year==LAC_nd1989 regdum440 region_initreg_year==LAC_nd1990 regdum441 region_initreg_year==LAC_nd1991 regdum442 region_initreg_year==LAC_nd1992 regdum443 region_initreg_year==LAC_nd1993 regdum444 region_initreg_year==LAC_nd1994 regdum444 region_initreg_year==LAC_nd1996 regdum445 region_initreg_year==LAC_nd1996 regdum446 region_initreg_year==LAC_nd1996 regdum447 region_initreg_year==LAC_nd1996 regdum448 region_initreg_year==LAC_nd1999 regdum449 region_initreg_year==LAC_nd2000 regdum450 region_initreg_year==LAC_nd2000 regdum451 region_initreg_year==LAC_nd2001 regdum452 region_initreg_year==LAC_nd2001 regdum453 region_initreg_year==LAC_nd2003 regdum454 region_initreg_year==LAC_nd2004 regdum455 region_initreg_year==LAC_nd2006 regdum456 region_initreg_year==LAC_nd2007 regdum457 region_initreg_year==LAC_nd2008 regdum458 region_initreg_year==LAC_nd2006 regdum459 region_initreg_year==LAC_nd2006 regdum450 region_initreg_year==LAC_nd2006 regdum451 region_initreg_year==LAC_nd2006 regdum452 region_initreg_year==LAC_nd2006 regdum453 region_initreg_year==LAC_nd2006 regdum454 region_initreg_year==LAC_nd2006 regdum456 region_initreg_year==LAC_nd2006 regdum457 region_initreg_year==MNA_dem1961 regdum460 region_initreg_year==MNA_dem1961 regdum461 region_initreg_year==MNA_dem1962 regdum462 region_initreg_year==MNA_dem1963 regdum463 region_initreg_year==MNA_dem1966 regdum464 region_initreg_year==MNA_dem1967 regdum467 region_initreg_year==MNA_dem1967 regdum468 region_initreg_year==MNA_dem1967 regdum469 region_initreg_year==MNA_dem1967 regdum470 region_initreg_year==MNA_dem1977 regdum471 region_initreg_year==MNA_dem1977 regdum473 region_initreg_year==MNA_dem1977 regdum474 region_initreg_year==MNA_dem1977 regdum475 region_initreg_year==MNA_dem1977 regdum476 region_initreg_year==MNA_dem1977	<u> </u>		
regdum435 regdum436 regdum437 regdum437 regdum438 regdum439 regdum440 regdum440 regdum441 regdum441 regdum441 regdum442 regdum442 regdum442 regdum443 regdum443 regdum443 regdum444 regdum444 regdum445 regdum445 regdum445 regdum446 regdum446 regdum446 regdum447 regdum447 regdum447 regdum447 regdum446 regdum446 regdum446 regdum447 regdum447 regdum447 regdum447 regdum448 regdum448 regdum448 regdum449 regdum449 regdum449 regdum449 regdum450 regdum450 regdum451 regdum451 regdum451 regdum452 regdum453 regdum453 regdum454 region initreg_year=LAC_nd2000 regdum456 regdum457 regdum457 regdum458 region_initreg_year=LAC_nd2000 regdum459 regdum459 regdum459 regdum459 regdum459 regdum456 region_initreg_year=LAC_nd2000 regdum457 regdum457 regdum458 region_initreg_year=LAC_nd2000 regdum450 regdum456 region_initreg_year=LAC_nd2000 regdum457 regdum457 regdum458 region_initreg_year=LAC_nd2000 regdum459 regdum459 region_initreg_year=LAC_nd2000 regdum459 regdum459 region_initreg_year=LAC_nd2000 regdum459 regdum459 region_initreg_year=LAC_nd2000 regdum459 regdum460 regdum461 region_initreg_year=LAC_nd2000 regdum459 regdum461 region_initreg_year=LAC_nd2000 regdum461 region_initreg_year=LAC_nd2000 regdum461 region_initreg_year=LAC_nd2000 regdum461 region_initreg_year=MNA_dem1960 regdum462 regdum463 region_initreg_year=MNA_dem1964 regdum464 region_initreg_year=MNA_dem1964 regdum465 regdum467 region_initreg_year=MNA_dem1964 regdum468 regdum469 region_initreg_year=MNA_dem1964 regdum467 region_initreg_year=MNA_dem1967 regdum468 regdum467 region_initreg_year=MNA_dem1967 regdum471 region_initreg_year=MNA_dem1977 regdum472 region_initreg_year=MNA_dem1974 regdum473 region_initreg_year=MNA_dem1976 regdum474 region_initreg_year=MNA_dem1976 regdum475 region_initreg_year=MNA_dem1976 regdum476 region_initreg_year=MNA_dem1976 regdum477 region_initreg_year=MNA_dem1976 regdum477 region_initreg_year=MNA_dem1976 regdum477 region_initreg_year=MNA_dem1976	regdum433	$region_initreg_year == LAC_nd1984$	
regdum435 regdum436 regdum437 regdum437 regdum438 regdum439 regdum440 regdum440 regdum441 regdum441 regdum441 regdum442 regdum442 regdum442 regdum443 regdum443 regdum443 regdum444 regdum444 regdum445 regdum445 regdum445 regdum446 regdum446 regdum446 regdum447 regdum447 regdum447 regdum447 regdum446 regdum446 regdum446 regdum447 regdum447 regdum447 regdum447 regdum448 regdum448 regdum448 regdum449 regdum449 regdum449 regdum449 regdum450 regdum450 regdum451 regdum451 regdum451 regdum452 regdum453 regdum453 regdum454 region initreg_year=LAC_nd2000 regdum456 regdum457 regdum457 regdum458 region_initreg_year=LAC_nd2000 regdum459 regdum459 regdum459 regdum459 regdum459 regdum456 region_initreg_year=LAC_nd2000 regdum457 regdum457 regdum458 region_initreg_year=LAC_nd2000 regdum450 regdum456 region_initreg_year=LAC_nd2000 regdum457 regdum457 regdum458 region_initreg_year=LAC_nd2000 regdum459 regdum459 region_initreg_year=LAC_nd2000 regdum459 regdum459 region_initreg_year=LAC_nd2000 regdum459 regdum459 region_initreg_year=LAC_nd2000 regdum459 regdum460 regdum461 region_initreg_year=LAC_nd2000 regdum459 regdum461 region_initreg_year=LAC_nd2000 regdum461 region_initreg_year=LAC_nd2000 regdum461 region_initreg_year=LAC_nd2000 regdum461 region_initreg_year=MNA_dem1960 regdum462 regdum463 region_initreg_year=MNA_dem1964 regdum464 region_initreg_year=MNA_dem1964 regdum465 regdum467 region_initreg_year=MNA_dem1964 regdum468 regdum469 region_initreg_year=MNA_dem1964 regdum467 region_initreg_year=MNA_dem1967 regdum468 regdum467 region_initreg_year=MNA_dem1967 regdum471 region_initreg_year=MNA_dem1977 regdum472 region_initreg_year=MNA_dem1974 regdum473 region_initreg_year=MNA_dem1976 regdum474 region_initreg_year=MNA_dem1976 regdum475 region_initreg_year=MNA_dem1976 regdum476 region_initreg_year=MNA_dem1976 regdum477 region_initreg_year=MNA_dem1976 regdum477 region_initreg_year=MNA_dem1976 regdum477 region_initreg_year=MNA_dem1976	regdum434	region initreg vear==LAC nd1985	
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regdum438	<u> </u>		
regdum440 region initreg year==LAC nd1991 regdum441 region initreg year==LAC nd1992 regdum442 region initreg year==LAC nd1994 regdum443 region initreg year==LAC nd1994 regdum444 region initreg year==LAC nd1995 regdum445 region initreg year==LAC nd1996 regdum446 region initreg year==LAC nd1998 regdum447 region initreg year==LAC nd1999 regdum448 region initreg year==LAC nd2000 regdum449 region initreg year==LAC nd2000 regdum450 region initreg year==LAC nd2001 regdum451 region initreg year==LAC nd2002 regdum452 region initreg year==LAC nd2003 regdum453 region initreg year==LAC nd2004 regdum454 region initreg year==LAC nd2005 regdum455 region initreg year==LAC nd2006 regdum456 region initreg year==LAC nd2008 regdum457 region initreg year==LAC nd2009 regdum458 region initreg year==LAC nd2009 regdum460 region initreg year==MNA dem1961 regdum461 region initreg year==MNA dem1961 regdum462 <td< td=""><td><u> </u></td><td></td><td></td></td<>	<u> </u>		
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regdum441 region_initreg_year==LAC_nd1992 regdum443 region_initreg_year==LAC_nd1993 regdum444 region_initreg_year==LAC_nd1994 regdum444 region_initreg_year==LAC_nd1995 regdum445 region_initreg_year==LAC_nd1996 regdum446 region_initreg_year==LAC_nd1997 regdum447 region_initreg_year==LAC_nd1998 regdum448 region_initreg_year==LAC_nd1999 regdum449 region_initreg_year==LAC_nd2000 regdum450 region_initreg_year==LAC_nd2001 regdum451 region_initreg_year==LAC_nd2001 regdum452 region_initreg_year==LAC_nd2002 regdum453 region_initreg_year==LAC_nd2003 regdum453 region_initreg_year==LAC_nd2004 regdum454 region_initreg_year==LAC_nd2005 regdum455 region_initreg_year==LAC_nd2006 regdum456 region_initreg_year==LAC_nd2007 regdum457 region_initreg_year==LAC_nd2008 regdum458 region_initreg_year==LAC_nd2009 regdum459 region_initreg_year==LAC_nd2009 regdum460 region_initreg_year==LAC_nd2010 regdum461 region_initreg_year==LAC_nd2010 regdum462 region_initreg_year==MNA_dem1960 regdum463 region_initreg_year==MNA_dem1960 regdum464 region_initreg_year==MNA_dem1963 regdum465 region_initreg_year==MNA_dem1963 regdum466 region_initreg_year==MNA_dem1964 regdum467 region_initreg_year==MNA_dem1966 regdum468 region_initreg_year==MNA_dem1967 regdum469 region_initreg_year==MNA_dem1969 regdum460 region_initreg_year==MNA_dem1969 regdum461 region_initreg_year==MNA_dem1967 regdum462 region_initreg_year==MNA_dem1967 regdum463 region_initreg_year==MNA_dem1967 regdum464 region_initreg_year==MNA_dem1967 regdum465 region_initreg_year==MNA_dem1967 regdum466 region_initreg_year==MNA_dem1967 regdum467 region_initreg_year==MNA_dem1967 regdum470 region_initreg_year==MNA_dem1973 regdum471 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1975 regdum475 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	<u> </u>		
regdum442			
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regdum444	<u> </u>		
regdum445 region_initreg_year==LAC_nd1996 regdum446 region_initreg_year==LAC_nd1997 regdum447 region_initreg_year==LAC_nd1998 regdum448 region_initreg_year==LAC_nd1999 regdum449 region_initreg_year==LAC_nd2000 regdum450 region_initreg_year==LAC_nd2001 regdum451 region_initreg_year==LAC_nd2003 regdum452 region_initreg_year==LAC_nd2004 regdum453 region_initreg_year==LAC_nd2004 regdum454 region_initreg_year==LAC_nd2005 regdum455 region_initreg_year==LAC_nd2006 regdum456 region_initreg_year==LAC_nd2007 regdum457 region_initreg_year==LAC_nd2009 regdum458 region_initreg_year==LAC_nd2010 regdum459 region_initreg_year==MNA_dem1960 regdum460 region_initreg_year==MNA_dem1961 regdum461 region_initreg_year==MNA_dem1962 regdum462 region_initreg_year==MNA_dem1963 regdum463 region_initreg_year==MNA_dem1964 regdum464 region_initreg_year==MNA_dem1965 regdum465 region_initreg_year==MNA_dem1966 regdum466	9	<u> </u>	
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regdum451 region_initreg_year==LAC_nd2002 regdum452 region_initreg_year==LAC_nd2003 regdum453 region_initreg_year==LAC_nd2004 regdum454 region_initreg_year==LAC_nd2005 regdum455 region_initreg_year==LAC_nd2006 regdum456 region_initreg_year==LAC_nd2007 regdum457 region_initreg_year==LAC_nd2008 regdum458 region_initreg_year==LAC_nd2009 regdum459 region_initreg_year==MNA_dem1960 regdum460 region_initreg_year==MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1963 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1964 regdum465 region_initreg_year==MNA_dem1966 regdum466 region_initreg_year==MNA_dem1966 regdum467 region_initreg_year==MNA_dem1968 regdum468 region_initreg_year==MNA_dem1970 regdum470 region_initreg_year==MNA_dem1971 regdum471 region_initreg_year==MNA_dem1973 regdum472 region_initreg_year==MNA_dem1973 regdum474	regdum449	$region_initreg_year == LAC_nd2000$	
regdum452 regdum453 region_initreg_year==LAC_nd2003 regdum454 region_initreg_year==LAC_nd2005 regdum455 region_initreg_year==LAC_nd2006 regdum456 region_initreg_year==LAC_nd2007 regdum457 region_initreg_year==LAC_nd2008 regdum458 region_initreg_year==LAC_nd2009 regdum459 region_initreg_year==LAC_nd2010 regdum460 region_initreg_year==MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1962 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1965 regdum465 regdum465 region_initreg_year==MNA_dem1966 regdum466 region_initreg_year==MNA_dem1966 regdum467 region_initreg_year==MNA_dem1968 regdum468 region_initreg_year==MNA_dem1969 regdum470 region_initreg_year==MNA_dem1970 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1975 regdum475 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977			
regdum453 region_initreg_year==LAC_nd2004 regdum454 region_initreg_year==LAC_nd2005 regdum455 region_initreg_year==LAC_nd2007 regdum456 region_initreg_year==LAC_nd2008 regdum457 region_initreg_year==LAC_nd2009 regdum458 region_initreg_year==LAC_nd2010 regdum459 region_initreg_year==MNA_dem1960 regdum460 region_initreg_year==MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1963 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1965 regdum465 region_initreg_year==MNA_dem1966 regdum466 region_initreg_year==MNA_dem1968 regdum467 region_initreg_year==MNA_dem1969 regdum469 region_initreg_year==MNA_dem1970 regdum470 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1973 regdum475 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum476 <td></td> <td>$region_initreg_year == LAC_nd2002$</td> <td></td>		$region_initreg_year == LAC_nd2002$	
regdum454 region_initreg_year==LAC_nd2005 regdum455 region_initreg_year==LAC_nd2006 regdum456 region_initreg_year==LAC_nd2007 regdum457 region_initreg_year==LAC_nd2008 regdum458 region_initreg_year==LAC_nd2009 regdum459 region_initreg_year==LAC_nd2010 regdum460 region_initreg_year==MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1963 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1965 regdum465 region_initreg_year==MNA_dem1966 regdum466 region_initreg_year==MNA_dem1967 regdum467 region_initreg_year==MNA_dem1968 regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1970 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1975 regdum475 regdum476 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977			
regdum455 region_initreg_year==LAC_nd2006 regdum456 region_initreg_year==LAC_nd2007 regdum457 region_initreg_year==LAC_nd2008 regdum458 region_initreg_year=LAC_nd2009 regdum459 region_initreg_year==LAC_nd2010 regdum460 region_initreg_year=MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1962 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1964 regdum465 region_initreg_year==MNA_dem1966 regdum466 region_initreg_year==MNA_dem1967 regdum467 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1969 regdum470 region_initreg_year==MNA_dem1970 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1973 regdum475 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	regdum453	$region_initreg_year == LAC_nd2004$	
regdum456 regdum457 region_initreg_year==LAC_nd2007 regdum458 region_initreg_year==LAC_nd2009 regdum459 regdum460 region_initreg_year==LAC_nd2010 regdum461 region_initreg_year==MNA_dem1960 regdum462 region_initreg_year==MNA_dem1962 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1964 regdum465 regdum465 region_initreg_year==MNA_dem1966 regdum466 region_initreg_year==MNA_dem1966 regdum467 regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1968 regdum470 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1972 regdum473 regdum474 region_initreg_year==MNA_dem1974 regdum475 regdum476 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977			
regdum457 regdum458 region_initreg_year==LAC_nd2009 regdum459 region_initreg_year==LAC_nd2010 regdum460 region_initreg_year==MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1963 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1964 regdum465 regdum466 region_initreg_year==MNA_dem1966 regdum467 region_initreg_year==MNA_dem1967 regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1969 regdum470 region_initreg_year==MNA_dem1970 regdum471 regdum472 region_initreg_year==MNA_dem1972 regdum473 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977	<u> </u>		
regdum458 region_initreg_year==LAC_nd2009 regdum459 region_initreg_year==LAC_nd2010 regdum460 region_initreg_year==MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1962 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1964 regdum465 region_initreg_year==MNA_dem1965 regdum466 region_initreg_year==MNA_dem1966 regdum467 region_initreg_year==MNA_dem1967 regdum468 region_initreg_year==MNA_dem1968 regdum470 region_initreg_year==MNA_dem1970 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1973 regdum473 region_initreg_year==MNA_dem1974 regdum474 region_initreg_year==MNA_dem1975 regdum475 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	_		
regdum459 region_initreg_year==LAC_nd2010 regdum460 region_initreg_year==MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1962 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1964 regdum465 region_initreg_year==MNA_dem1965 regdum466 region_initreg_year==MNA_dem1966 regdum467 region_initreg_year==MNA_dem1967 regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1969 regdum470 region_initreg_year==MNA_dem1970 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1973 regdum473 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1975 regdum475 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977			
regdum460 region_initreg_year==MNA_dem1960 regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1962 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1964 regdum465 region_initreg_year==MNA_dem1965 regdum466 region_initreg_year==MNA_dem1966 regdum467 region_initreg_year==MNA_dem1967 regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1970 regdum470 region_initreg_year==MNA_dem1971 regdum471 region_initreg_year==MNA_dem1972 regdum472 region_initreg_year==MNA_dem1973 regdum473 region_initreg_year==MNA_dem1974 regdum474 region_initreg_year==MNA_dem1975 regdum475 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	regdum458	$region_initreg_year == LAC_nd2009$	
regdum461 region_initreg_year==MNA_dem1961 regdum462 region_initreg_year==MNA_dem1962 regdum463 region_initreg_year==MNA_dem1963 regdum464 region_initreg_year==MNA_dem1964 regdum465 region_initreg_year==MNA_dem1965 regdum466 region_initreg_year==MNA_dem1966 regdum467 region_initreg_year==MNA_dem1967 regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1969 regdum470 region_initreg_year==MNA_dem1970 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1972 regdum473 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1974 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	<u> </u>		
regdum462 regdum463 region_initreg_year==MNA_dem1962 regdum464 regdum465 regdum465 region_initreg_year==MNA_dem1965 regdum466 regdum466 region_initreg_year==MNA_dem1966 regdum467 regdum468 region_initreg_year==MNA_dem1967 regdum469 regdum470 region_initreg_year==MNA_dem1969 regdum471 regdum471 regdum472 region_initreg_year==MNA_dem1972 regdum473 regdum474 region_initreg_year==MNA_dem1973 regdum475 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977	<u> </u>		
regdum463 region_initreg_year==MNA_dem1963 regdum464 regdum465 region_initreg_year==MNA_dem1965 regdum466 regdum467 region_initreg_year==MNA_dem1966 regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1969 regdum470 region_initreg_year==MNA_dem1970 regdum471 regdum472 region_initreg_year==MNA_dem1972 regdum473 regdum473 region_initreg_year==MNA_dem1973 regdum474 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977	<u> </u>	<u> </u>	
regdum464 regdum465 region_initreg_year==MNA_dem1965 regdum466 region_initreg_year==MNA_dem1966 regdum467 region_initreg_year==MNA_dem1967 regdum468 region_initreg_year==MNA_dem1968 regdum470 region_initreg_year==MNA_dem1970 regdum471 regdum472 region_initreg_year==MNA_dem1971 regdum473 region_initreg_year==MNA_dem1972 regdum474 regdum474 region_initreg_year==MNA_dem1974 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977	_		
regdum465 regdum466 regdum466 regdum467 regdum467 regdum468 region_initreg_year==MNA_dem1967 regdum469 regdum470 regdum471 regdum472 regdum472 regdum473 regdum473 regdum474 regdum474 regdum475 regdum475 regdum476 regdum476 region_initreg_year==MNA_dem1976 regdum476 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977	regdum463	$region_initreg_year == MNA_dem 1963$	
regdum466 regdum467 region_initreg_year==MNA_dem1966 regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1969 regdum470 region_initreg_year==MNA_dem1970 regdum471 regdum472 region_initreg_year==MNA_dem1972 regdum473 region_initreg_year==MNA_dem1973 regdum474 regdum475 region_initreg_year==MNA_dem1974 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977	_		
regdum467 regdum468 region_initreg_year==MNA_dem1968 regdum469 regdum470 region_initreg_year==MNA_dem1969 regdum471 regdum471 regdum472 region_initreg_year==MNA_dem1971 regdum473 region_initreg_year==MNA_dem1972 regdum474 regdum474 regdum475 region_initreg_year==MNA_dem1974 regdum475 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977			
regdum468 region_initreg_year==MNA_dem1968 regdum469 region_initreg_year==MNA_dem1969 regdum470 region_initreg_year==MNA_dem1970 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1972 regdum473 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1974 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977			
regdum469 regdum470 region_initreg_year==MNA_dem1969 regdum471 regdum471 regdum472 region_initreg_year==MNA_dem1971 regdum473 region_initreg_year==MNA_dem1973 regdum474 regdum475 regdum475 region_initreg_year==MNA_dem1974 regdum476 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1976 region_initreg_year==MNA_dem1977	0		
regdum470 region_initreg_year==MNA_dem1970 regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1972 regdum473 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1974 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	regdum468	$region_initreg_year == MNA_dem 1968$	
regdum471 region_initreg_year==MNA_dem1971 regdum472 region_initreg_year==MNA_dem1972 regdum473 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1974 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	_		
regdum472 region_initreg_year==MNA_dem1972 regdum473 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1974 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977			
regdum473 region_initreg_year==MNA_dem1973 regdum474 region_initreg_year==MNA_dem1974 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977			
regdum474 region_initreg_year==MNA_dem1974 regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	_		
regdum475 region_initreg_year==MNA_dem1975 regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	regdum473	$region_initreg_year == MNA_dem 1973$	
regdum476 region_initreg_year==MNA_dem1976 regdum477 region_initreg_year==MNA_dem1977	_		
$regdum 477 region_initreg_year == MNA_dem 1977$			
region initreg year==MNA dem1978			
1081011 101010 1011111 1011111 1011111 1011111 1011111 1011111 1011111 101111 101111 101111 101111 101111 10111	regdum478	$region_initreg_year == MNA_dem 1978$	

Table 4: List of Variables (continued)

variable	label
regdum479	region_initreg_year==MNA_dem1979
regdum480	$region_initreg_year == MNA_dem 1980$
regdum481	region_initreg_year==MNA_dem1981
regdum482	$region_initreg_year == MNA_dem 1982$
regdum483	$region_initreg_year == MNA_dem 1983$
regdum484	region_initreg_year==MNA_dem1984
regdum485	region_initreg_year==MNA_dem1985
regdum486	region_initreg_year==MNA_dem1986
regdum487	region initreg year==MNA dem1987
regdum488	region_initreg_year==MNA_dem1988
regdum489	$region_initreg_year == MNA_dem 1989$
regdum490	region_initreg_year==MNA_dem1990
regdum491	region_initreg_year==MNA_dem1991
regdum492	region_initreg_year==MNA_dem1992
regdum493	region_initreg_year==MNA_dem1993
regdum494	region_initreg_year==MNA_dem1994
regdum495	region_initreg_year==MNA_dem1995
regdum496	region_initreg_year==MNA_dem1996
regdum497	region_initreg_year==MNA_dem1997
regdum498	region_initreg_year==MNA_dem1998
regdum499	region_initreg_year==MNA_dem1999
regdum500	region_initreg_year==MNA_dem2000
regdum501	region_initreg_year==MNA_dem2001
regdum502	region_initreg_year==MNA_dem2002
regdum503	region_initreg_year==MNA_dem2003
regdum504	region_initreg_year==MNA_dem2004
regdum505	region_initreg_year==MNA_dem2005
regdum506	region_initreg_year==MNA_dem2006
regdum507	region_initreg_year==MNA_dem2007
regdum508	region_initreg_year==MNA_dem2008
regdum509	region initreg year==MNA dem2009
regdum510	region_initreg_year==MNA_dem2010
regdum511	region_initreg_year==MNA_nd1960
regdum512	region_initreg_year==MNA_nd1961
regdum513	region_initreg_year==MNA_nd1962
regdum514	region_initreg_year==MNA_nd1963
regdum515	region_initreg_year==MNA_nd1964
regdum516	region_initreg_year==MNA_nd1965
regdum517	region_initreg_year==MNA_nd1966
regdum518	region_initreg_year==MNA_nd1967
regdum519	region_initreg_year==MNA_nd1968
regdum520	region_initreg_year==MNA_nd1969
regdum521	region_initreg_year==MNA_nd1970
regdum522	region_initreg_year==MNA_nd1971
regdum523	region_initreg_year==MNA_nd1972
regdum524	region_initreg_year==MNA_nd1973
.0844111021	1081011_11111010111_1111_1111010

Table 4: List of Variables (continued)

regdum525 region_initreg_year==MNA_nd1974 regdum526 region_initreg_year==MNA_nd1975 regdum527 region_initreg_year==MNA_nd1976 regdum528 region_initreg_year==MNA_nd1977 regdum529 region_initreg_year==MNA_nd1978 regdum530 region_initreg_year==MNA_nd1980 regdum531 region_initreg_year==MNA_nd1980 regdum532 region_initreg_year==MNA_nd1981 regdum533 region_initreg_year==MNA_nd1982 regdum534 region_initreg_year==MNA_nd1983 regdum535 region_initreg_year==MNA_nd1984 regdum536 region_initreg_year==MNA_nd1985 regdum537 region_initreg_year==MNA_nd1986 regdum538 region_initreg_year==MNA_nd1987 regdum539 region_initreg_year==MNA_nd1989 regdum540 region_initreg_year==MNA_nd1989 regdum541 region_initreg_year==MNA_nd1990 regdum542 region_initreg_year==MNA_nd1991 regdum543 region_initreg_year==MNA_nd1993 regdum544 region_initreg_year==MNA_nd1993 regdum545 region_initreg_year==MNA_nd1996 regdum546 r
regdum527 region_initreg_year==MNA_nd1976 regdum528 region_initreg_year==MNA_nd1977 regdum529 region_initreg_year==MNA_nd1978 regdum530 region_initreg_year==MNA_nd1979 regdum531 region_initreg_year==MNA_nd1980 regdum532 region_initreg_year==MNA_nd1981 regdum533 region_initreg_year==MNA_nd1982 regdum534 region_initreg_year==MNA_nd1983 regdum535 region_initreg_year==MNA_nd1984 regdum536 region_initreg_year==MNA_nd1985 regdum537 region_initreg_year==MNA_nd1987 regdum538 region_initreg_year==MNA_nd1987 regdum539 region_initreg_year==MNA_nd1988 regdum540 region_initreg_year==MNA_nd1980 regdum541 region_initreg_year==MNA_nd1990 regdum542 region_initreg_year==MNA_nd1991 regdum543 region_initreg_year==MNA_nd1993 regdum544 region_initreg_year==MNA_nd1993 regdum545 region_initreg_year==MNA_nd1996 regdum548 region_initreg_year==MNA_nd1996 regdum549 region_initreg_year==MNA_nd1999 regdum550 r
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$regdum 555 region_initreg_year == MNA_nd 2004$
$regdum 556 region_initreg_year == MNA_nd 2005$
$regdum 557 region_initreg_year == MNA_nd 2006$
regdum 558 region_initreg_year==MNA_nd 2007
$regdum 559 region_initreg_year == MNA_nd 2008$
$regdum 560 region_initreg_year == MNA_nd 2009$
$regdum 561 region_initreg_year == MNA_nd 2010$
$regdum 562 region_initreg_year == SAS_dem 1960$
regdum 563 region_initreg_year==SAS_dem 1961
$regdum 564 region_initreg_year == SAS_dem 1962$
$regdum 565 region_initreg_year == SAS_dem 1963$
$regdum 566 region_initreg_year == SAS_dem 1964$
$regdum 567 region_initreg_year == SAS_dem 1965$
$regdum 568 region_initreg_year == SAS_dem 1966$
$regdum 569 region_initreg_year == SAS_dem 1967$
regdum569 region_initreg_year==SAS_dem1967 regdum570 region_initreg_year==SAS_dem1968 regdum571 region_initreg_year==SAS_dem1969

Table 4: List of Variables (continued)

variable	label
regdum 572	$region_initreg_year == SAS_dem 1970$
regdum573	$region_initreg_year == SAS_dem 1971$
regdum574	$region_initreg_year == SAS_dem 1972$
regdum575	$region_initreg_year == SAS_dem 1973$
regdum 576	$region_initreg_year == SAS_dem 1974$
regdum 577	$region_initreg_year == SAS_dem 1975$
regdum578	$region_initreg_year == SAS_dem 1976$
regdum579	$region_initreg_year == SAS_dem 1977$
regdum580	$region_initreg_year == SAS_dem 1978$
regdum581	$region_initreg_year == SAS_dem 1979$
regdum582	$region_initreg_year == SAS_dem 1980$
regdum583	$region_initreg_year == SAS_dem 1981$
regdum584	$region_initreg_year == SAS_dem 1982$
regdum585	$region_initreg_year == SAS_dem 1983$
regdum586	$region_initreg_year == SAS_dem 1984$
regdum587	$region_initreg_year == SAS_dem 1985$
regdum588	$region_initreg_year == SAS_dem 1986$
regdum589	$region_initreg_year == SAS_dem 1987$
regdum590	$region_initreg_year == SAS_dem 1988$
regdum591	$region_initreg_year == SAS_dem 1989$
regdum 592	$region_initreg_year == SAS_dem 1990$
regdum593	$region_initreg_year == SAS_dem 1991$
regdum594	$region_initreg_year == SAS_dem 1992$
regdum595	$region_initreg_year == SAS_dem 1993$
regdum 596	$region_initreg_year == SAS_dem 1994$
regdum 597	$region_initreg_year == SAS_dem 1995$
regdum598	$region_initreg_year == SAS_dem 1996$
regdum 599	$region_initreg_year == SAS_dem 1997$
regdum600	$region_initreg_year == SAS_dem 1998$
regdum601	$region_initreg_year == SAS_dem 1999$
regdum602	$region_initreg_year == SAS_dem 2000$
regdum603	$region_initreg_year == SAS_dem 2001$
regdum604	$region_initreg_year == SAS_dem 2002$
regdum 605	$region_initreg_year == SAS_dem 2003$
regdum606	$region_initreg_year == SAS_dem 2004$
regdum607	$region_initreg_year == SAS_dem 2005$
regdum608	$region_initreg_year == SAS_dem 2006$
regdum609	$region_initreg_year == SAS_dem 2007$
regdum610	$region_initreg_year == SAS_dem 2008$
regdum611	$region_initreg_year == SAS_dem 2009$
regdum612	region_initreg_year==SAS_dem2010
regdum613	$region_initreg_year == SAS_nd1960$
regdum614	$region_initreg_year == SAS_nd1961$
regdum615	$region_initreg_year == SAS_nd1962$
no adviso 616	region_initreg_year==SAS_nd1963
regdum616	
regdum617 regdum618	region_initreg_year==SAS_nd1964 region_initreg_year==SAS_nd1965

Table 4: List of Variables (continued)

variable	label
regdum619	region_initreg_year==SAS_nd1966
regdum620	region_initreg_year==SAS_nd1967
regdum621	region_initreg_year==SAS_nd1968
regdum622	region_initreg_year==SAS_nd1969
regdum623	region_initreg_year==SAS_nd1970
regdum624	region initreg year==SAS nd1971
regdum625	region_initreg_year==SAS_nd1972
regdum626	region_initreg_year==SAS_nd1973
regdum627	region initreg year==SAS nd1974
regdum628	region initreg year==SAS nd1975
regdum629	region_initreg_year==SAS_nd1976
regdum630	region_initreg_year==SAS_nd1970 region_initreg_year==SAS_nd1977
regdum631	region_initreg_year==SAS_nd1977 region_initreg_year==SAS_nd1978
regdum632	region_initreg_year==SAS_nd1979
regdum633	region_initreg_year==SAS_nd1919 region_initreg_year==SAS_nd1980
_	
regdum634	region_initreg_year==SAS_nd1981
regdum635	region_initreg_year==SAS_nd1982
regdum636	$region_initreg_year == SAS_nd1983$
regdum637	$region_initreg_year == SAS_nd1984$
regdum638	$region_initreg_year == SAS_nd1985$
regdum639	$region_initreg_year == SAS_nd1986$
regdum640	$region_initreg_year == SAS_nd1987$
regdum641	$region_initreg_year == SAS_nd1988$
regdum642	$region_initreg_year == SAS_nd1989$
regdum643	$region_initreg_year == SAS_nd1990$
regdum644	region_initreg_year==SAS_nd1991
regdum645	region_initreg_year==SAS_nd1992
regdum646	region_initreg_year==SAS_nd1993
regdum647	region_initreg_year==SAS_nd1994
regdum648	$region_initreg_year == SAS_nd1995$
regdum649	$region_initreg_year == SAS_nd1996$
regdum650	region_initreg_year==SAS_nd1997
regdum651	region_initreg_year==SAS_nd1998
regdum652	region_initreg_year==SAS_nd1999
regdum653	region_initreg_year==SAS_nd2000
regdum654	region_initreg_year==SAS_nd2001
regdum655 regdum655	region_initreg_year==SAS_nd2001 region_initreg_year==SAS_nd2002
regdum656	region_initreg_year==SAS_nd2002 region_initreg_year==SAS_nd2003
regdum657	region_initreg_year==SAS_nd2004
regdum658	region_initreg_year==SAS_nd2004 region_initreg_year==SAS_nd2005
<u> </u>	
regdum659	region_initreg_year==SAS_nd2006
regdum660	region_initreg_year==SAS_nd2007
regdum661	region_initreg_year==SAS_nd2008
regdum662	region_initreg_year==SAS_nd2009
regdum663	$region_initreg_year == SAS_nd2010$
dFY_1	${\rm regionINITREG}{==}{\rm AFR_dem}$

Table 4: List of Variables (continued)

variable	label
variable	label
dFY_2 dFY_3 dFY_4 dFY_5	regionINITREG==AFR_nd regionINITREG==EAP_dem regionINITREG==EAP_nd regionINITREG==ECA_nd
dFY_6 dFY_7 dFY_8 dFY_9 dFY_10	regionINITREG==INL_dem regionINITREG==INL_nd regionINITREG==LAC_dem regionINITREG==LAC_nd regionINITREG==MNA_dem
dFY_11 dFY_12 dFY_13 gfa nfa	regionINITREG==MNA_nd regionINITREG==SAS_dem regionINITREG==SAS_nd (sum) gfa (sum) nfa
totalassets totalliabilities nfagdp nfagdpreg incomequint50s_year1	(sum) totalassets (sum) totalliabilities (mean) nfagdp NULL NULL
incomequint50s_year2 quintile50s dquint1 dquint2 dquint3	$\begin{array}{l} \text{NULL} \\ \text{NULL} \\ \text{quintile} 50\text{s} == 1.0000 \\ \text{quintile} 50\text{s} == 2.0000 \\ \text{quintile} 50\text{s} == 3.0000 \end{array}$
dquint4 dquint5 interfull_yy1_quintile1 interfull_yy1_quintile2 interfull_yy1_quintile3	quintile50s == 4.0000 $quintile50s == 5.0000$ $NULL$ $NULL$ $NULL$
interfull_yy1_quintile4 interfull_yy1_quintile5 interfull_yy2_quintile1 interfull_yy2_quintile2 interfull_yy2_quintile3	NULL NULL NULL NULL NULL NULL
interfull_yy2_quintile4 interfull_yy2_quintile5 interfull_yy3_quintile1 interfull_yy3_quintile2 interfull_yy3_quintile3	NULL NULL NULL NULL NULL NULL
interfull_yy3_quintile4 interfull_yy3_quintile5 interfull_yy4_quintile1 interfull_yy4_quintile2 interfull_yy4_quintile3	NULL NULL NULL NULL NULL NULL
interfull_yy4_quintile4 interfull_yy4_quintile5 interfull_yy5_quintile1	NULL NULL NULL

Table 4: List of Variables (continued)

variable	label
interfull_yy5_quintile2	NULL
interfull_yy5_quintile3	NULL
interfull_yy5_quintile4	NULL
interfull yy5 quintile5	NULL
interfull_yy6_quintile1	NULL
interfull yy6 quintile2	NULL
interfull_yy6_quintile3	NULL
interfull_yy6_quintile4	NULL
interfull yy6 quintile5	NULL
interfull_yy7_quintile1	NULL
interfull yy7 quintile2	NULL
interfull yy7 quintile3	NULL
v -	
interfull_yy7_quintile4	NULL
interfull_yy7_quintile5	NULL
interfull_yy8_quintile1 interfull_yy8_quintile2	NULL NULL
interfull_yy8_quintile2 interfull_yy8_quintile3	NULL
-	
interfull_yy8_quintile4	NULL
interfull_yy8_quintile5	NULL
interfull_yy9_quintile1	NULL
interfull_yy9_quintile2	NULL
interfull_yy9_quintile3	NULL
$interfull_yy9_quintile4$	NULL
$interfull_yy9_quintile5$	NULL
interfull_yy10_quintile1	NULL
interfull_yy10_quintile2	NULL
$interfull_yy10_quintile3$	NULL
$interfull_yy10_quintile4$	NULL
$interfull_yy10_quintile5$	NULL
$interfull_yy11_quintile1$	NULL
interfull_yy11_quintile2	NULL
$interfull_yy11_quintile3$	NULL
$interfull_yy11_quintile4$	NULL
interfull_yy11_quintile5	NULL
$interfull_yy12_quintile1$	NULL
$interfull_yy12_quintile2$	NULL
$interfull_yy12_quintile3$	NULL
interfull_yy12_quintile4	NULL
interfull_yy12_quintile5	NULL
$\frac{1}{1}$ interfull $\frac{1}{1}$ $\frac{1}$	NULL
$interfull_yy13_quintile2$	NULL
$interfull_yy13_quintile3$	NULL
interfull_yy13_quintile4	NULL
interfull_yy13_quintile5	NULL
interfull_yy14_quintile1	NULL
interfull_yy14_quintile2	NULL
interfull_yy14_quintile3	NULL
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Table 4: List of Variables (continued)

variable	label
interfull_yy14_quintile4	NULL
interfull_yy14_quintile5	NULL
interfull_yy15_quintile1	NULL
interfull_yy15_quintile2	NULL
interfull yy15 quintile3	NULL
interfull_yy15_quintile4	NULL
interfull yy15 quintile5	NULL
interfull_yy16_quintile1	NULL
interfull_yy16_quintile2	NULL
$interfull_yy16_quintile3$	NULL
interfull_yy16_quintile4	NULL
interfull_yy16_quintile5	NULL
interfull_yy17_quintile1	NULL
interfull_yy17_quintile2	NULL
interfull_yy17_quintile3	NULL
interfull_yy17_quintile4	NULL
$interfull_yy17_quintile5$	NULL
$interfull_yy18_quintile1$	NULL
$interfull_yy18_quintile2$	NULL
interfull_yy18_quintile3	NULL
interfull_yy18_quintile4	NULL
interfull_yy18_quintile5	NULL
interfull_yy19_quintile1	NULL
interfull yy19 quintile2	NULL
interfull_yy19_quintile3	NULL
interfull_yy19_quintile4	NULL
interfull_yy19_quintile5	NULL
interfull_yy20_quintile1	NULL
interfull_yy20_quintile2	NULL
interfull_yy20_quintile3	NULL
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interfull_yy20_quintile4	NULL
$interfull_yy20_quintile5$	NULL
$interfull_yy21_quintile1$	NULL
$interfull_yy21_quintile2$	NULL
$interfull_yy21_quintile3$	NULL
interfull_yy21_quintile4	NULL
interfull_yy21_quintile5	NULL
interfull yy22 quintile1	NULL
interfull yy22 quintile2	NULL
interfull_yy22_quintile3	NULL
interfull_yy22_quintile4	NULL
interfull_yy22_quintile5	NULL
	NULL
interfull_yy23_quintile1	
interfull_yy23_quintile2	NULL
$interfull_yy23_quintile3$	NULL
$interfull_yy23_quintile4$	NULL

Table 4: List of Variables (continued)

variable	label
interfull_yy23_quintile5	NULL
$interfull_yy24_quintile1$	NULL
$interfull_yy24_quintile2$	NULL
$interfull_yy24_quintile3$	NULL
interfull_yy24_quintile4	NULL
interfull yy24 quintile5	NULL
interfull yy25 quintile1	NULL
interfull_yy25_quintile2	NULL
interfull yy25 quintile3	NULL
interfull_yy25_quintile4	NULL
interfull_yy25_quintile5	NULL
interfull_yy26_quintile1	NULL
interfull_yy26_quintile2	NULL
interfull_yy26_quintile3	NULL
interfull_yy26_quintile4	NULL
interfull_yy26_quintile5	NULL
interfull_yy27_quintile1	NULL
interfull_yy27_quintile2	NULL
$interfull_yy27_quintile3$	NULL
$interfull_yy27_quintile4$	NULL
$interfull_yy27_quintile5$	NULL
$interfull_yy28_quintile1$	NULL
$interfull_yy28_quintile2$	NULL
$interfull_yy28_quintile3$	NULL
interfull_yy28_quintile4	NULL
interfull_yy28_quintile5	NULL
interfull_yy29_quintile1	NULL
interfull_yy29_quintile2	NULL
interfull_yy29_quintile3	NULL
interfull_yy29_quintile4	NULL
interfull yy29 quintile5	NULL
interfull yy30 quintile1	NULL
interfull yy30 quintile2	NULL
interfull_yy30_quintile3	NULL
interfull_yy30_quintile4	NULL
interfull_yy30_quintile5	NULL NULL
interfull_yy31_quintile1 interfull_yy31_quintile2	NULL NULL
interfull_yy31_quintile3	NULL
interfull_yy31_quintile4	NULL
interfull_yy31_quintile5	NULL
interfull_yy32_quintile1	NULL
interfull_yy32_quintile2	NULL
$interfull_yy32_quintile3$	NULL
$interfull_yy32_quintile4$	NULL
$interfull_yy32_quintile5$	NULL
$interfull_yy33_quintile1$	NULL

Table 4: List of Variables (continued)

variable	label
interfull_yy33_quintile2	NULL
interfull_yy33_quintile3	NULL
interfull_yy33_quintile4	NULL
interfull yy33 quintile5	NULL
interfull yy34 quintile1	NULL
interfull yy34 quintile2	NULL
interfull_yy34_quintile3	NULL
interfull_yy34_quintile4	NULL
interfull_yy34_quintile5	NULL
interfull_yy35_quintile1	NULL
interfull_yy35_quintile2	NULL
$interfull_yy35_quintile3$	NULL
$interfull_yy35_quintile4$	NULL
$interfull_yy35_quintile5$	NULL
$interfull_yy36_quintile1$	NULL
$interfull_yy36_quintile2$	NULL
$interfull_yy36_quintile3$	NULL
interfull_yy36_quintile4	NULL
interfull_yy36_quintile5	NULL
interfull_yy37_quintile1	NULL
$interfull_yy37_quintile2$	NULL
$interfull_yy37_quintile3$	NULL
interfull_yy37_quintile4	NULL
interfull_yy37_quintile5	NULL
interfull_yy38_quintile1	NULL
interfull_yy38_quintile2	NULL
interfull_yy38_quintile3	NULL
$interfull_yy38_quintile4$	NULL
$interfull_yy38_quintile5$	NULL
$interfull_yy39_quintile1$	NULL
interfull_yy39_quintile2	NULL
$interfull_yy39_quintile3$	NULL
interfull_yy39_quintile4	NULL
interfull_yy39_quintile5	NULL
interfull_yy40_quintile1	NULL
$interfull_yy40_quintile2$	NULL
$interfull_yy40_quintile3$	NULL
interfull_yy40_quintile4	NULL
interfull_yy40_quintile5	NULL
interfull_yy41_quintile1	NULL
interfull_yy41_quintile2	NULL
$interfull_yy41_quintile3$	NULL
interfull_yy41_quintile4	NULL
interfull_yy41_quintile5	NULL
interfull_yy42_quintile1	NULL
interfull_yy42_quintile2	NULL
interfull yy42 quintile3	NULL

Table 4: List of Variables (continued)

variable	label
interfull_yy42_quintile4	NULL
interfull_yy42_quintile5	NULL
interfull_yy43_quintile1	NULL
interfull_yy43_quintile2	NULL
interfull yy43 quintile3	NULL
interfull yy43 quintile4	NULL
interfull yy43 quintile5	
- v	NULL
interfull_yy44_quintile1	NULL
interfull_yy44_quintile2	NULL
interfull_yy44_quintile3	NULL
interfull_yy44_quintile4	NULL
interfull_yy44_quintile5	NULL
interfull_yy45_quintile1	NULL
interfull yy45 quintile2	NULL
interfull yy45 quintile3	NULL
interfull_yy45_quintile4	NULL
$interfull_yy45_quintile5$	NULL
$interfull_yy46_quintile1$	NULL
$interfull_yy46_quintile2$	NULL
$interfull_yy46_quintile3$	NULL
interfull_yy46_quintile4	NULL
interfull_yy46_quintile5	NULL
interfull_yy47_quintile1	NULL
interfull yy47 quintile2	NULL
interfull_yy47_quintile3	NULL
interfull_yy47_quintile4	NULL
interfull_yy47_quintile5	NULL
interfull_yy48_quintile1	NULL
interfull yy48 quintile2	NULL
interfull yy48 quintile3	NULL
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interfull_yy48_quintile4	NULL
$interfull_yy48_quintile5$	NULL
$interfull_yy49_quintile1$	NULL
$interfull_yy49_quintile2$	NULL
$interfull_yy49_quintile3$	NULL
interfull_yy49_quintile4	NULL
interfull yy49 quintile5	NULL
interfull_yy50_quintile1	NULL
interfull_yy50_quintile2	NULL
interfull yy50 quintile3	NULL
· · ·	
interfull_yy50_quintile4	NULL
interfull_yy50_quintile5	NULL
interfull_yy51_quintile1	NULL
interfull_yy51_quintile2	NULL
interfull_yy51_quintile3	NULL
$interfull_yy51_quintile4$	NULL

Table 4: List of Variables (continued)

variable	label
interfull_yy51_quintile5 country areakm2 cen_lat	NULL Country Name Area in km2 latitude of country centroid
cen_lon elev distcr distc distr	longitude of country centroid mean m above sea level mean distance to coast or river mean distance to coast mean distance to river
tropicar troppop lc100km lcr100km pop95	% land area in geographical tropics %pop ('95) in geographical tropics %area 100km from icefree coast %area 100km from icefree coast or sea-nav. river 1995 pop (from GPWv2)
pdenpavg pop100km pop100cr cen_c cen_cr	typical pop density experienced %pop ('95) 100km from icefree coast %pop ('95) 100km from icefree coast or sea-nav. river dist centroid to coast(km) dist centroid to coast/riv (km)
polity xrreg xrcomp xropen xconst	NULL NULL NULL NULL NULL
parreg parcomp exrec exconst polcomp	NULL NULL NULL NULL NULL
polity2_aug independent transition interruption interregnum	NULL NULL NULL NULL NULL
pr cl pr_aug cl_aug demt	NULL NULL NULL NULL NULL
polity2 status NAME LON LAT	NULL NULL NAME LON LAT
_ID GDPpercapitaconstantLCUN rgdpl2	NULL GDP per capita (constant LCU) [NY.GDP.PCAP.KN] NULL

Table 4: List of Variables (continued)

variable	label
rgdpna_full	NULL
PopulationtotalSPPOPTOTL	Population, total [SP.POP.TOTL]
Populationages014oftotal	Population ages 0-14 (% of total) [SP.POP.0014.TO.ZS]
Populationages1564oftota	Population ages 15-64 (% of total) [SP.POP.1564.TO.ZS]

5.2 Arellano Bond Estimation for Table.2 (Shoya Abe)

```
data_t2 <- data %>%
  select(1:30) %>%
  group_by(country_name) %>%
  arrange(year) %>%
  mutate(
    lag1 = dplyr::lag(y, 1),
    lag2 = dplyr::lag(y, 2),
    lag3 = dplyr::lag(y, 3),
   lag4 = dplyr::lag(y, 4),
   lag5 = dplyr::lag(y, 5),
    lag6 = dplyr::lag(y, 6),
   lag7 = dplyr::lag(y, 7),
    lag8 = dplyr::lag(y, 8)
  ) %>%
  ungroup()
data_m1 <- data_t2 %>%
  drop_na(y, dem, lag1) %>%
  pdata.frame(index = c("country_name", "year"))
data_m2 <- data_t2 %>%
  drop_na(y, dem, lag1, lag2) %>%
  pdata.frame(index = c("country_name", "year"))
data_m3 <- data_t2 %>%
  drop_na(y, dem, lag1, lag2, lag3, lag4) %>%
  pdata.frame(index = c("country_name", "year"))
data_m4 <- data_t2 %>%
  drop_na(
    y, dem, lag1, lag2, lag3, lag4,
    lag5, lag6, lag7, lag8
  pdata.frame(index = c("country_name", "year"))
maxlag <- 49
model_1_gmm <- pgmm(</pre>
  y \sim dem + lag(y, 1)
    lag(y, 2:maxlag) + lag(dem, 1:maxlag),
  data = data m1,
  effect = "twoways",
  model = "twosteps",
 transformation = "d"
```

```
model_2_gmm <- pgmm(</pre>
  y \sim dem + lag(y, 1) + lag(y, 2)
    lag(y, 2:maxlag) + lag(dem, 1:maxlag),
  data = data_m2,
  effect = "twoways",
  model = "twosteps",
  transformation = "d"
model_3_gmm <- pgmm(</pre>
  y \sim dem + lag(y, 1) + lag(y, 2) +
    lag(y, 3) + lag(y, 4) |
    lag(y, 2:maxlag) + lag(dem, 1:maxlag),
  data = data_m3,
  effect = "twoways",
  model = "twosteps",
  transformation = "d"
)
model_4_gmm <- pgmm(</pre>
  y \sim dem + lag(y, 1) + lag(y, 2) +
    lag(y, 3) + lag(y, 4) +
    lag(y, 5) + lag(y, 6) +
    lag(y, 7) + lag(y, 8) |
    lag(y, 2:maxlag) + lag(dem, 1:maxlag),
  data = data_m4,
  effect = "twoways",
  model = "twosteps",
  transformation = "d"
compute_dynamic_effect <- function(dem_coef, lag_coefs, n_periods) {</pre>
  effects <- numeric(n_periods)</pre>
  effects[1] <- dem_coef</pre>
  k <- length(lag_coefs)</pre>
  if (n_periods > 1) {
    for (i in 2:n_periods) {
      eff <- dem_coef
      for (j in 1:min(i - 1, k)) {
        eff <- eff + effects[i - j] * lag_coefs[j]</pre>
      }
      effects[i] <- eff
    }
  }
  effects[n_periods]
coef_1 <- coef(model_1_gmm)</pre>
dem_coef_1 <- coef_1["dem"]</pre>
lag1_1 \leftarrow coef_1["lag(y, 1)"]
lre1 <- dem_coef_1 / (1 - lag1_1)</pre>
```

```
pers1 <- lag1_1
eff_25_1 <- compute_dynamic_effect(</pre>
  dem_coef_1, c(lag1_1), 25
coef_2 <- coef(model_2_gmm)</pre>
dem_coef_2 <- coef_2["dem"]</pre>
lag1_2 \leftarrow coef_2["lag(y, 1)"]
lag2_2 \leftarrow coef_2["lag(y, 2)"]
lre2 <- dem_coef_2 / (1 - (lag1_2 + lag2_2))</pre>
pers2 <- lag1_2 + lag2_2
eff_25_2 <- compute_dynamic_effect(</pre>
  dem_coef_2, c(lag1_2, lag2_2), 25
coef_3 <- coef(model_3_gmm)</pre>
dem_coef_3 <- coef_3["dem"]</pre>
lag1_3 \leftarrow coef_3["lag(y, 1)"]
lag2_3 \leftarrow coef_3["lag(y, 2)"]
lag3_3 \leftarrow coef_3["lag(y, 3)"]
lag4_3 \leftarrow coef_3["lag(y, 4)"]
lre3 <- dem_coef_3 / (1 - (lag1_3 +</pre>
  lag2_3 + lag3_3 + lag4_3))
pers3 <- lag1_3 + lag2_3 + lag3_3 + lag4_3
eff_25_3 <- compute_dynamic_effect(</pre>
  dem_coef_3, c(lag1_3, lag2_3, lag3_3, lag4_3), 25
coef_4 <- coef(model_4_gmm)</pre>
dem_coef_4 <- coef_4["dem"]</pre>
lag1_4 \leftarrow coef_4["lag(y, 1)"]
lag2_4 \leftarrow coef_4["lag(y, 2)"]
lag3_4 \leftarrow coef_4["lag(y, 3)"]
lag4_4 \leftarrow coef_4["lag(y, 4)"]
lag5_4 \leftarrow coef_4["lag(y, 5)"]
lag6_4 \leftarrow coef_4["lag(y, 6)"]
lag7_4 \leftarrow coef_4["lag(y, 7)"]
lag8_4 \leftarrow coef_4["lag(y, 8)"]
lre4 <- dem_coef_4 / (1 - (lag1_4 +</pre>
  lag2_4 + lag3_4 + lag4_4 + lag5_4 +
  lag6_4 + lag7_4 + lag8_4))
pers4 <- lag1_4 + lag2_4 + lag3_4 +
  lag4_4 + lag5_4 + lag6_4 + lag7_4 + lag8_4
eff_25_4 <- compute_dynamic_effect(
  dem_coef_4,
  c(
    lag1_4, lag2_4, lag3_4, lag4_4,
    lag5_4, lag6_4, lag7_4, lag8_4
  ),
  25
)
lre <- round(c(lre1, lre2, lre3, lre4), 3)</pre>
```

```
pers <- round(c(pers1, pers2, pers3, pers4), 3)</pre>
eff_25 <- round(
  c(eff_25_1, eff_25_2, eff_25_3, eff_25_4),
)
se1 <- sqrt(diag(vcov(model_1_gmm)))</pre>
se2 <- sqrt(diag(vcov(model 2 gmm)))</pre>
se3 <- sqrt(diag(vcov(model_3_gmm)))</pre>
se4 <- sqrt(diag(vcov(model_4_gmm)))</pre>
override.coef.1 <- c(</pre>
  coef 1["dem"],
  coef_1["lag(y, 1)"],
  rep(NA, 7)
override.se.1 <- c(
  se1["dem"],
  se1["lag(y, 1)"],
  rep(NA, 7)
override.coef.2 <- c(</pre>
  coef_2["dem"],
  coef_2["lag(y, 1)"],
  coef_2["lag(y, 2)"],
  rep(NA, 6)
override.se.2 <- c(
  se2["dem"],
  se2["lag(y, 1)"],
  se2["lag(y, 2)"],
  rep(NA, 6)
override.coef.3 <- c(</pre>
  coef_3["dem"],
  coef_3["lag(y, 1)"],
  coef_3["lag(y, 2)"],
  coef_3["lag(y, 3)"],
  coef_3["lag(y, 4)"],
  rep(NA, 4)
override.se.3 <- c(
  se3["dem"],
  se3["lag(y, 1)"],
  se3["lag(y, 2)"],
  se3["lag(y, 3)"],
  se3["lag(y, 4)"],
  rep(NA, 4)
override.coef.4 <- c(
  coef_4["dem"],
  coef_4["lag(y, 1)"],
  coef_{4}["lag(y, 2)"],
```

```
coef_4["lag(y, 3)"],
  coef_{4}["lag(y, 4)"],
  coef_4["lag(y, 5)"],
  coef_{4}["lag(y, 6)"],
  coef_4["lag(y, 7)"],
  coef_4["lag(y, 8)"]
override.se.4 <- c(
  se4["dem"],
  se4["lag(y, 1)"],
  se4["lag(y, 2)"],
  se4["lag(y, 3)"],
  se4["lag(y, 4)"],
  se4["lag(y, 5)"],
  se4["lag(y, 6)"],
  se4["lag(y, 7)"],
  se4["lag(y, 8)"]
models <- list(model_1_gmm, model_2_gmm, model_3_gmm, model_4_gmm)</pre>
texreg(
 models,
  override.coef = list(
    override.coef.1,
    override.coef.2,
    override.coef.3,
    override.coef.4
  ),
  override.se = list(
    override.se.1,
    override.se.2,
    override.se.3,
    override.se.4
  ),
  custom.model.names = c("(1)", "(2)", "(3)", "(4)"),
  custom.coef.names = c(
    "Democracy", "Lag 1", "Lag 2",
    "Lag 3", "Lag 4", "Lag 5",
    "Lag 6", "Lag 7", "Lag 8"
  ),
  custom.gof.rows = list(
    "Persistence" = pers,
    "Long run effect" = lre,
    "Effect after 25 years" = eff_25
  ),
  file = "output/table_2_GMM.tex",
  caption = "Effect of Democracy on (Log) GDP per Capita: Arellano-Bond GMM Estimation"
)
```

	(1)	(2)	(3)	(4)
Democracy	2.79	2.29	0.05	1.51
•	(2.12)	(1.63)	(1.42)	(0.51)
Lag 1	0.96***	0.99***	0.94***	0.93***
	(0.03)	(0.03)	(0.03)	(0.01)
Lag 2	, ,	-0.02	-0.00	-0.01
		(0.01)	(0.01)	(0.00)
Lag 3		,	$0.00^{'}$	$0.00^{'}$
			(0.01)	(0.00)
Lag 4			-0.02^{*}	-0.01
			(0.01)	(0.00)
Lag 5			,	-0.00
				(0.00)
Lag 6				$0.00^{'}$
				(0.00)
Lag 7				-0.00
				(0.00)
Lag 8				-0.00
				(0.00)
Persistence	0.96	0.97	0.92	0.91
Long run effect	63.18	74.26	0.65	16.40
Effect after 25 years	42.76	40.77	0.59	15.27
n	175	175	175	175
T	50	49	47	43
Num. obs.	6790	6642	6336	5688
Num. obs. used	6542	6311	5824	4779
Sargan Test: chisq	145.66	147.27	140.10	146.09
Sargan Test: df	2398.00	2297.00	2095.00	1691.00
Sargan Test: p-value	1.00	1.00	1.00	1.00
Wald Test Coefficients: chisq	808.19	984.51	1143.95	2227.71
Wald Test Coefficients: df	2	3	5	9
Wald Test Coefficients: p-value	0.00	0.00	0.00	0.00
Wald Test Time Dummies: chisq	533.24	491.67	497.42	453.37
Wald Test Time Dummies: df	48	46	42	34
Wald Test Time Dummies: p-value	0.00	0.00	0.00	0.00
*** < 0.001. ** < 0.01. * < 0.05				

***p < 0.001; **p < 0.01; *p < 0.05

Table 5: Effect of Democracy on (Log) GDP per Capita: Arellano–Bond GMM Estimation