

A quantitative analysis of the country level factors influencing female representation in national legislatures of electoral democracies

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"Gender equality is essential to build and strengthen our communities. When women engage in political process, societies thrive and prosper" - Justin Trudeau (Women Political Leaders, 2020)

*"Equal representation in positions of power is a fundamental precondition for truly effective and accountable democracy" -* (Inter-Parliamentary Union, 2017)

#### Abstract:

The current world population is approximately 49.6% female (World Bank, 2020) while the average percentage of women in national parliaments is 24.7% (Interparliamentary Union, 2020). A.H. Birch argues that without representation that reflects the demographics of a country, true democracy cannot be achieved (A.H. Birch, 1971). This study aims to evaluate factors which create conditions where more women occupy seats in the lower house of 105 electoral democracies through an aggregate level analysis of structural, socio-economic and historical factors. Arguing that discrimination is the largest obstacle to women's election to the national legislature, this study models six variables in an Ordinary Least Squares (OLS) regression to determine the most important driving forces. The primary conclusion is that specific structural, socio-economic and historical factors do affect the percentage of women in parliament, notably the use of gender quotas a higher percentage of women in paid work and a large number of years since the first woman was elected to parliament are found in this study to be important. Previous literature which stressed the influential role that the type of voting system had on increasing the percentage of women in parliament have been shown to have far less strength than previously thought. Overall, this study serves to highlight the complicated nature of female representation in national legislatures and the multitude of forces at play.

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## I. Introduction:

Throughout history, positions of power have largely been occupied by men and this has influenced many parts of society, its norms, and laws. In particular, the political environment is largely male with far fewer women represented. This raises questions regarding how democratic a country can be, if half of its citizens are not represented to the same extent that the other half are.

In 2020, the average percentage of women represented in national parliaments was 24.7% (Inter-Parliamentary Union, 2020) while the global percentage of women in the world was 49.5% (World Bank, 2020). Within this, there is great country variance, for example Micronesia has no women represented in its national parliament, while Bolivia has 53.08% of seats occupied by women (Inter-Parliamentary Union, 2020). This study aims to assess the factors that create an environment that encourages a higher percentage of women in parliament in the lower houses of national legislatures, using data from 105 electoral democracies.

A.H. Birch's theory of *demographic* representation argues that the most democratic government represents the needs of all citizen (Birch, 1971). The best way to do this is for a country's parliament to match the demographic of their country, to be a "microcosm of the population" (Lovenduski, 1995, p. 94). By this thinking, this study will argue that more women need to be in parliament, to match the 49.5% that they occupy the world. The basis of demographic representation comes from the idea that those in the same group, represent their interests best and was supported by Jeremy Bentham and Utilitarianism in the 1820s, on the idea that the people could not be represented by a political elite who didn't understand them (Lovenduski, 1995).

Power structures and the status quo have historically marginalized women, and other groups, and it is this entrenched belief system that stops women globally from being represented to the same degree that they occupy society (Paxton, 1997). This belief system manifests itself in the form of discrimination against voting for women and/or discriminatory processes that reduce the likelihood women will put themselves forward. This study will focus on historical, structural, and socioeconomic factors that are helping to break down the barriers of discrimination to get more women into national parliaments.

There are several studies that have considered factors that affect the percentage of women in national parliaments. However, many of these studies were carried out a number of years ago, for example (Duverger, 1955), (Currell, 1974) and (Bogdanor, 1985), while other studies focus on specific regions, (Yoon, 2004) and (Rittberger, 2014). As a result, this study hopes to fit into the literature as a look at global trends, taking the theory from smaller and now somewhat outdated studies to see if they are still relevant.

An OLS regression of 105 electoral democracies will be employed to assess the importance of structural, socio-economic and historical variables on the percentage of women in parliament, as of the most recent election (Interparliamentary Union, 2020). These independent variables are electoral system, quota for women, development level, percentage of women in paid work, years since universal suffrage and years since the first woman was elected to parliament (Interparliamentary Union, 2020) (UN Stats, 2020) (International Institute for Democracy and Electoral Assistance, 2020) (World Bank, 2020) (Women's Suffrage and Beyond, 2017). This study will only consider the lower houses or single houses for

unicameral structures, as this is where most power is held (Mughan, 2001). Electoral democracies have been chosen using the Freedom in the World 2020 electoral democracy index to ensure this study measures effects on democracy (Freedom House, 2020).

Overall, this study aims to better understand what factors facilitate an environment where more women are elected to the national legislature. This allows for consideration of factors that may need to be implemented in countries where representation is far lower than it should be to achieve representative democracy.

## II. The Importance of Representation

By 2020 women are expected to hold \$72 trillion, 32%, of the world's total wealth (Economist, 2018), meanwhile they drive 70-80% of all consumer purchasing through their buying power and influence (Bloomberg, 2018). Notwithstanding their economic contributions, women are also the primary caregiver in many societies and often occupy multiple roles in and outside the home (UN Women, 2019). This growing influence in the world demands greater representation in the political environment to satisfy Birch's theory.

Results from the World Economic Forum 2020 Global Gender Gap report suggests that while the gender gap globally is decreasing, the largest gap remains in the political empowerment index and this includes political representation (World Economic Forum, 2019). 108 out of 149 countries have decreased this gap in recent years by increasing the number of women represented in their parliament (World Economic Forum, 2019). Indeed, in 1890 no women in the world could vote in

democratic elections, while in 2006, all women living in states which held elections, could vote (Hughes, 2006). Additionally, as of June 2019, 11 women were serving as head of state and 12 as head of government (UN Women, 2019).

Despite these recent leaps forward, The United Nations (UN) argues that in order for women to make a meaningful difference in politics, they must occupy 30% of the total space which is also referred to as the Critical Mass theory (Kunovich, 2003). This means that while there has been a steady increase in women's representation over time, the current global average of 24.7% (Inter-Parliamentary Union, 2020) suggests that for some countries there is a long way to go before true representative democracy is achieved.

Burnet argued that increased female representation lays the path for meaningful participation in genuine democracy and a "transformation in political subjectivity" (Burnet, 2008, p. 361). Research by the United Nations lends support to this idea, demonstrating that when more income is put into the hands of women, child nutrition, health and education improve (UN Women, 2012). Additionally, other areas of business and environmental protections flourish as evidence from 25 developed and developing countries suggests (UN Women, 2012). This indicates that countries with higher female parliamentary representation are more likely to set aside protected land areas for either environmental protections, protection of indigenous communities or cultural sites (UN Women, 2012).

Indeed, Paxton highlighted the dangers of a lack of female representation which can lead to the state legislating in the male interest (Paxton, 1997). This is because women are more likely than their male colleagues to represent women's interests because they understand their own needs bettern (Jones, 1998). This can

mean that groups not represented can be side-lined and possibly put in danger. For example, in the United States, a bill was passed in Alabama in 2019 to ban abortion in virtually all circumstances, including rape and incest (BBC News, 2019). The bill was voted for by all male senators and none of the 4 female senators voted in favour of this bill which has widely been regarded as a step backwards for female reproductive rights (BBC News, 2019). Without female voices in positions of power, women's opinions are not heard to the same extent.

Caroline Lucas, MP and previous co-leader of the Green party, stresses the importance of women having a voice in parliament through her experience in the parliament of the United Kingdom (UK). She pointed to the rising female presence in the Lower House of the UK as a catalyst for "major steps forward in tackling gender discrimination" both in parliament and in civil society (The Guardian, 2017). All in all, better representation in national parties of all members of society will lead to better democracy. This is what Birch and others argue for and is widely agreed as necessary for a suitable democracy to function (Lovenduski, 1995).

## **III. Review of the Literature**

#### Discrimination:

To better understand which factors aid or inhibit women's representation in national legislatures it is first important to understand why women are being elected at a far lower proportion than men. The primary obstacle to women's representation is the existing discrimination against women which exists in most societies around the globe. This discrimination can be defined in two ways. *Direct discrimination* is defined by Lovenduski as the unjust or prejudicial treatment of different categories of people, especially on the grounds of race, age, or sex (Lovenduski, 1995, p. 14). This is different to *Imputed Discrimination* defined as when selectors in the party discriminate against a candidate because they do not believe that the electorate will vote for them (Lovenduski, 1995, p. 14). Both types of discrimination are at play when considering the representation of women.

Tremblay and Acker have explored the origins of democracy and its power structures, both convincingly concluding that much of Western democracy has historically excluded women (Tremblay, 2007, p. 533) (Acker, 1990). Tremblay examined democracy in ancient Greece and the societal influences of the time that created rigid gender roles, where women worked in the home and were often kept out of the political sphere (Tremblay, 2007). Later, theorists of the social contract and popular sovereignty, which informed developments of democracy that we see today, also denigrated women to the spheres of private and family life (Kunovich, 2003). It is therefore not only modern structural factors that must be examined and dismantled to increase equal representation, but also ideological and historical factors. Indeed, Bano discussed the obstacles to women's participation in politics as "[residing] in prevailing social and economic regimes as well as in existing political structures" (Bano, 2009, p. 29).

In a similar vein, exploration into modern power structures and the effects they have on women are also important. Acker argues that power in modern democratic systems is designed to be gender neutral and thus existing structures have been adapted in the hope that more people can access these positions (Acker,

1990). However, because women struggle more than men to hide their gender through pregnancy, the sexualisation of their body, menstruation etc. they struggle to fit into this non-gendered environment (Acker, 1990). Indeed, Burrell and Acker described how the "suppression of sexuality is one of the first tasks bureaucracy sets itself" (Burrell, 1984, p. 98). This suggests that women by purely being women, are discriminated against and kept out of positions of power in the political sphere. This in turn, means that there are far fewer women represented in parliament.

Further investigation into discrimination considers the stereotypical characteristics of good leaders. Crawford described good "leadership characteristics" as being charismatic, economically successful and in control of your emotions which are often stereotyped as male features (Crawford, 2011, p. 99). This stereotype has been proven to limit women's ability to represent themselves in positions in parliament. Women in the Australian parliament in Crawford's study described their experiences receiving negative press when returning to work after having a child because they were not abiding by traditional gender norms (Crawford, 2011). Acker highlighted the dangers of these gender identities in encouraging other forms of social segregation (Acker, 1990) and this certainly seems the case when viewing the social segregation of women from power structures.

This distinction between the female and the male ties into Puwar's research into physical characteristics (Puwar, 2004). Puwar defined this as a Somatic Norm which is the concept that there are "ideal physical characteristics" that are accepted by a group as being desired for a role (Puwar, 2004, p. 8). Puwar argues that looking and being a man are the ideal physical characteristics for a politician and this creates challenges for women entering parliament (Puwar, 2004).

Despite all these challenges, Rule (1981) suggested that once women do apply for election, they face no more obstacles than men in being selected (Rule, 1981). However, this study focused on the United States and so its usefulness is limited when looking at the global picture. An additional criticism of Rule's conclusion is evidence that once women do get into positions of power they are often placed into "nurturing portfolios" like healthcare and education which are often deemed less important by the public (Crawford, 2011). This means that women have less 'real' power to represent their constituents' needs (Crawford, 2011). Therefore, while evidence suggests that barriers to women's discrimination are not uniform across countries, this serves to highlight what this study aims to learn, why there is such country variance.

Overall, while there are a range of studies that examine a small sample of countries, there are very few studies that examine the global picture. With discrimination in its broadest sense being the main cause of a lack of female representation, it is important to quantify this and explore how this manifests itself. In the next section of the discussion, the factors which help to limit this discrimination are evaluated in relation to existing literature.

## Structural:

A commonly agreed factor influencing higher representation for women in national legislatures are structural factors of the political environment. These include Rule's (1987) analysis of the impact of different types of electoral systems on the

percentage of women in parliament (Rule, 1987). Rule (1987) tested the importance of the Proportional Representation (PR) voting system that had previously been identified by older studies as facilitating better representation (Duverger, 1955) (Currell, 1974) (Bogdanor, 1985). She identified that Proportional Representation (PR) as a voting system and a higher number of women elected to parliament is strongly correlated using data from 23 advanced democracies (Rule, 1987).

The reason PR systems are so conducive to a higher percentage of women in parliament is that they normally include a list system to achieve this proportionality whereas plurality/majority systems do so less frequently (Rule, 1987). With a PR list system parties are still more likely to choose a male to be put on the ballot, but will also choose a female representative alongside them, to appeal to a wider audience (Rule, 1987). In systems without a list the party are more likely to choose a male, as they believe, due to existing discriminatory structures, that they are more likely to win with a male representative, this is an example of imputed discrimination (Lovenduski, 1995).

The number of studies that suggest a PR system is conducive to a higher number of female MPs representing their constituents in the national legislature suggests that this is an element to explore further. Matland and Montgomery, found support for Rule's theory, concluding that "the electoral system directly affects female legislative representation" because it shapes how people are recruited and who is chosen to be put on the ballot (Tremblay, 2007, p. 537). The problem with the studies of Rule and Matland is that they were carried out over 25 years ago and since then female representation has, for the most part, increased in national legislatures and so this needs to be reconsidered in the current climate.

More recent investigation into the relationship between a PR vote system and the percentage of women represented in parliament comes from Rittberger (2014) and Yoon (2004). Rittberger considered the effect of PR voting systems on women's election to the European parliament and found substantial evidence to suggest that the PR system used in European parliament elections does encourage more women when compared with member states' parliaments who don't use a PR system (Rittberger, 2014). Yoon found a similar relationship in her exploration of Sub-Saharan African countries (Yoon, 2004). Her study found that multi-member proportional representation systems were more favourable than single member or plurality systems in this region to a higher percentage of seats occupied by women (Yoon, 2004). This is due to the wider appeal that having a woman on the ballot brings in in multimember PR systems (Yoon, 2004, p. 450).

However, it is important to keep in mind the conditions under which both Yoon and Rittberger's studies were carried out. Notably, in the case of Rittberger, the European parliament is a relatively new institution without the entrenched male hierarchies which many national parliaments have therefore the relationships may be different (Rittberger, 2014). Additionally, study of the European parliament falls victim to the Second Order Election theory in which voters often vote differently in elections they deem less important (Cutler, 2008). Therefore, Rittberger's study is useful in tandem with others, but cannot provide conclusive suggestions of the global picture. Similarly, Yoon's research is compelling as a start point, however its focus on Sub-Saharan Africa suggests that more multi-country studies need to be carried out to determine whether this trend extends globally.

In this way, this study aims to assess the strength of Rittberger and Yoon's conclusions on a global scale and reassess previous findings from Matland, Montgomery and Rule on how important PR vote system is in a changed global climate. This led to the creation of hypothesis 1:

# **Hypothesis 1.** Countries that have Proportional Representation voting systems will have a higher percentage of women in parliament than countries without PR systems

Another structural factor for which its usefulness has widely been debated is gender quotas. The International Institute for Democracy and Electoral Assistance identifies three main types found in national parliaments: (1) reserved seats, (2) legislated candidate quotas, (3) voluntary party quotas. The first two are either written into electoral law, or the constitution (International Institute for Democracy and Electoral Assistance, 2020) making them legally binding. The final type, voluntary party quotas, is not uniform across the country but specific to a party which may choose to implement a quota (International Institute for Democracy and Electoral Assistance, 2020).

Other differences in relation to quotas includes the amount to which the quota demands. Some countries have followed the Critical Mass Theory, and installed quotas for 30% of seats or 30% of candidates while others have gone for ambitious 50% quotas (International Institute for Democracy and Electoral Assistance, 2020). All these differences highlight the challenges faced when researching them.

The usefulness of quotas in increasing women's representation has widely been debated. Jones was one of the early scholars to explore the use of quotas through his research into the impact of the Argentine quotas in the 1990s (Jones, 1998). He found that the implementation of a quota increased representation of

women in the national legislature, and Argentina became an anomaly compared with most other Latin American countries which still had low levels of female representation (Jones, 1998). Bano similarly encourages the use of quotas, writing that they are "one of the most effective affirmative actions in increasing women's political representation" in his research into the Pakistani parliament from 1947-2008 (Bano, 2009, p. 30).

Since Bano and Jones' writing, more and more countries have implemented some form of electoral quota. In 2020, out of the 190 countries recognised as having elections by the IPU, 104 of them had installed some form of electoral quota (Inter-Parliamentary Union, 2020). This compared with only 5 countries that had adopted quotas in the 1970s suggests a sharp increase in the past 50 years (Bush, 2011). However, these 104 countries include all three types of quota which is problematic for research. While legislated candidate quotas and reserved seat quotas are often compulsory by law, voluntary party quotas are entirely dependent on the party therefore are harder to study.

Research by Studlar and McAllister suggests that the positive increase in women's representation that quotas bring is in part due to the way that they force structures to change (Studlar, 2002). Quotas target existing discrimination in the structures of democracy by making a clear space for women and a prerogative for political parties to work with them. Quotas are also useful in increasing women's representation because they signal an admission of the barriers that women do face and an active effort to tackle them (Yoon, 2004). It is this idea that bought the creation of our second hypothesis.

# **Hypothesis 2.** Countries with a quota implemented by law will have a higher percentage of women in their parliament than countries with no legal quota

However, Bush examined the rise in use of quotas in developing nations and found that some implemented quotas to adhere to structural adjustment packages but did not implement the quota effectively (Bush, 2011). This is a key challenge with investigations into quotas. In some countries, parties either do not adhere to them and pay a fine or there is no consequence at all suggesting that the quota is an attempt to burnish the country's standing in the international arena rather than indicating commitment to real change (International Institute for Democracy and Electoral Assistance, 2020). This creates a major challenge when considering the effect on women in parliament as some are implemented successfully, and some not.

Additionally, quotas are often found in less developed countries because more developed countries have a higher level of representation already (Pourgerami, 1988). Indeed, Western Europe is the origin of traditional democracy today and has an average percentage of women in parliament of 37%, over 10% above the global average (Inter-parliamentary Union, 2020). Here, many believe that non-voluntary quotas constrict who can be elected and so do not support them in their political system, believing they are undemocratic (Studlar, 2002) (Bano, 2009).

As a result, it is likely that the relationship between having a quota and the development level is interlinked and measures should be taken to explore this further. This led to the creation of hypothesis 2a.

Hypothesis 2a: the impact of a gender quota on the percentage of women in parliament will differ dependent on the development level. Less developed countries will find quotas increase the percentage of women in parliament more than gender quotas do for more developed countries which already have relatively high levels of development

Much of the literature focuses on the effect of structural factors, and only briefly considers the effect of socio-economic considerations. Rule suggests that structural factors are far more important due to the way that they create the conditions for women to be elected, while socio-economic factors only consider motivations (Rule, 1987). Indeed, Rittberger noted that structural factors were more important in the European parliament than macro-societal factors (Rittberger, 2014).

While considering all the factors that influence women's representation in national legislatures it is important to consider what the most important factors are. This focus on structural factors in the existing literature has led to the creation of hypothesis 3:

# **Hypothesis 3.** Structural variables have a more significant effect on the percentage of women in parliament than socio-economic or historical variables

## Socio-economic:

Nevertheless, Paxton and Kunovich argued that even if structural factors do enable women to get elected, if you don't have the women going forward in the first place because of discriminatory processes in their socio-economic background, you are unlikely to have many women elected (Kunovich, 2003). It is important to see World Polity Theory in relation to the effect of social factors and their impact. World Polity Theory argues that social change is the result of external social and ideological factors that influence state decisions (Hughes, 2006, p. 900). With more women occupying areas in society, more women will influence state decisions in parliament.

Yoon argued that a socio-economic environment which does not promote women or denigrates them, like a structural political system, will stop women participating in the parliaments of their national legislatures (Yoon, 2004). Indeed, one socio-economic factor which is believed to affect women's representation in national legislatures is that of the level of development of the country.

Matland's exploration into the relationship between development level and percentage of women in parliament was one of the first of its kind and is still one of the few papers looking at the relationship today (Matland, 1998). His research offers some insight into the impact of the development level of a country, however some countries explored by him have changed development level and therefore it is useful to reassess these conclusions (Matland, 1998).

Matland found that "increased development leads to weakening of traditional values ... and attitudinal changes in perceptions of the appropriate roles for women" (Matland, 1998, p. 114). With development comes a shift in culture, towards one that welcomes more women into politics. This argument has merit as research suggests as countries become more economically developed, they too become more democratic and women have a larger role (Pourgerami, 1988). It is therefore suitable to conclude that a developed country is likely to have a higher percentage of female politicians in their national parliaments, than developing countries.

This argument has been disputed by Yoon who in her exploration of countries in Sub-Saharan Africa, suggested there was no statistically significant relationship between the development level of the country and the percentage of women in the national parliaments (Yoon, 2004). However, Yoon's study focused on Sub-Saharan Africa where many countries are not electoral democracies. Therefore, while Yoon's comments are helpful when considering the Sub-Saharan Africa region, in a larger cross-national study, it is likely that there will be some impact of the development level of a country on the percentage of women represented in the national parliament. This led to the identification of hypothesis 4.

# Hypothesis 4. Developed countries will have a higher percentage of women in their national legislatures than developing countries

Another socio-economic factor that is widely agreed to correlate positively with better representation in national legislatures is the percentage of women in the labour force. If women are participating in the labour force, they have more financial independence to run for office (Yoon, 2004). It is convincing to conclude that more women are likely to be elected if they have more economic capital and more financial independence. Indeed, Rule found that there was some correlation between the percentage of women in the workforce and the percentage of women in parliament in her studies into democracies in the 1980s (Rule, 1987).

Another reason the labour force is so important is because politicians emerge disproportionately from certain professions, such as law or academia (Lovenduski, 1995), (Rittberger, 2014). These professions, regardless of gender, engender skills and contacts that help when getting elected and once the individual has a role in parliament (Tremblay, 2007). As a result, more women participating in these

professions will create more women with the skills and contacts required for election to office and lead to a higher percentage of women in parliament.

However, the relationship between labour force and women's representation has limitations. As Yoon pointed out, this relationship can be skewed in some circumstances where a large percentage of women work, but in the low skilled industry where they have little economic capital and little opportunity to learn skills that would help them get elected to office (Yoon, 2004). As a result, it is important to consider other ways that the percentage of women in the labour force and the percentage of women in national legislature is recorded. This study uses an indicator for the percentage of women in paid work which will be described in more detail in the methodology.

# **Hypothesis 5.** The percentage of women in paid work will be positively correlated with the percentage of women in the national legislature

#### Historical:

One factor explored far less in the literature, is the impact of historical factors. Matland described how most research focuses on socioeconomic and institutional factors with little on historical considerations (Matland, 1993). One reason for this is because it is hard to quantify in a cross-national study as every country has a vastly different history.

However, historical factors are important to consider due to the historical nature of discrimination affecting women's election to the national legislature. In particular, if women have been active in politics for longer, whether that be in official positions or through women's groups, the electorate are more comfortable seeing a woman in parliament and therefore are more likely to vote for a woman. Additionally, historical support of women in the national legislature leads to more policies that help women to reach these positions, furthering the percentage of women in parliament.

Country	Year Suffrage
Denmark	1915
Finland	1906
Iceland	1915
Norway	1913
Sweden	1921

Figure 1: Years Suffrage acheived Nordic countries:

(Women's Suffrage and Beyond, 2017)

This relationship can be seen in Nordic countries shown in Figure 1. This groups of countries have the highest number of women in their parliaments and were some of the first to achieve women's suffrage and have a female member of parliament (Inglehart, 2001). The average year for current electoral democracies to achieve universal suffrage is 1947 while for Nordic countries it is 1914 (Women's Suffrage and Beyond, 2020).

It is these egalitarian views that take time to synthesise into countries and ideologies. Therefore it is convincing to conclude that those countries with more years since women's suffrage would also have more women represented in their national parliament as women have had more time to prove themselves and the country is making moves to encourage more equal representation. This conclusion led to the creation of Hypothesis 6.

# **Hypothesis 6.** The greater number of years since women's suffrage, the higher the percentage of women elected to parliament in the year of the most recent election

One aspect explored in more regional level studies is the effect of women's rights movements on bringing women into positions of power in business and the government. Evidence suggests that if women have had more of a role in politics, through women's rights movements or interest, there are likely to be more women in parliament. This is because, with women assisting in the political sphere, even if they are not elected in seats in parliament, this breaks down both structural and ideological assumptions which can limit women's ability to get elected. This relationship is similar to the years since women's suffrage, as time helps to change viewpoints of the public to elect more women.

Research into Rwanda which has the highest percentage of women in their parliament globally at 61.25%, suggests that women's rights movements are particularly important (Burnet, 2008). Following the Rwandan genocide, there were thousands of female refugees and their families whose male relatives had been killed and now had no means of income (Burnet, 2008). It was in refugee camps that organisations to promote women to get back on their feet grew, funded by NGOs. These groups are widely regarded as providing women with the confidence and skills to run for government and get elected in Rwanda (Burnet, 2008). This case study demonstrates the impact that women have when they are involved in the political sphere through rights groups. Having a history of women in these roles increases the percentage of women in parliament because they create conditions where women are more likely to be elected.

Campbell explored the relationship between the number of female politicians and the young women in their constituents' interest in politics. Campbell found that where there are more female MPs there are also more young women talking about politics which brings more women to apply to be members of parliament (Campbell, 2007). This suggests that countries with a longer history of women in parliament, will likely have female constituents who are more interested in politics due to having suitable role models.

Campbell's study suggests that there is some form of cyclical relationship between the independent variable and predictor variable in this case. This is a weakness of the investigation however this is already a complicated issue with many facets. While this cyclical relationship needs to be considered, it is still appropriate to conclude that the more years since the first woman was elected to parliament, the more women will be in the national legislature and so this led to the creation of hypotheses 7.

# Hypothesis 7. The greater number of years since the first woman was elected to parliament, the greater the percentage of women represented in the lower house of the national legislatures

One set of variables that are important to consider but that have not been included in the final models are ideological variables. These may include religion, egalitarian values, and views on the role of women. The usefulness of these as indicators has been debated as they rarely create statistically significant relationships in the studies that use them (Tremblay, 2007) (Studlar, 2002), yet it is hard to deny their importance in affecting the way voters and selectors view women they may be electing to parliament.

Paxton and Kunovich did explore ideological factors using data from the World Values Survey (Kunovich, 2003). They found that ideology was important to some degree in their analysis but cautioned against using measures such as "dominant religion" which mask many other variables with sweeping generalisations. Because ideology is so varied this study does not consider it in the statistical analysis but does accept that they exist and may explain some of the variance not accounted for. To some degree, the historical variables account for some ideological variance as they demonstrate the extent of egalitarian views.

## IV. Methodology

**Research Question:** What country level factors create conditions in which more women are elected to national parliaments?

## Formation of the data set:

The data for this study has been collated from a collection of resources (Interparliamentary Union, 2020) (UN Stats, 2020) (International Institute for Democracy and Electoral Assistance, 2020) (World Bank, 2019) (Women's Suffrage and Beyond, 2017). The dataset has information for the most recent elections (as of March 2020), looking at 105 electoral democracies. The aim is to create an up to date study of factors affecting women's representation in national legislatures and determine whether a) factors important 25 years ago are still important and b) the strength of historical variables which have been explored far less.

The analysis only includes figures for the percentage of women in the lower house or single house of the national legislature. The reason for this decision is the lower house often has greater legislative powers than the upper house therefore is more important when considering the issue of representation and women's ability to make an impact (Kunovich, 2003). Additionally, the lower house is directly elected by citizens of the country while some upper houses are chosen by the executive (Mughan, 2001). The inclusion of the upper houses in analyses such as this, risks Second Order election theory that people who believe an election is less important, vote differently to if they believe it has direct influence on them therefore is not useful for this kind of analysis (Rittberger, 2014).

Moreover, the focus of the study is on electoral democracies as it is the promotion of democracy that this study is examining. Yoon concluded that legislative elections in countries that are not true democracies are meaningless and are likely to produce different outcomes (Yoon, 2004). As a result, all non-electoral democracies were removed, using the Freedom House electoral Democracy database before starting any analysis. Freedom House distinguishes an electoral democracy by considering a legal basis for protections of civil liberties and democratic freedoms and the implementation of these measures (Freedom House, 2020).

The Freedom House data was taken from the 2020 study which showed electoral democracies as of 2019 (Freedom House, 2020). Therefore, for countries whose elections occurred in 2020, therefore after the cut off point for being included in the report, they were cross referenced with news reports to determine whether they could still be included. For all countries which had an election in 2020 and were 'electoral democracies' in 2019, I found that they all were still electoral democracies in 2020.

### The Dependent Variable:

The dependent variable is labelled *percentwomen*, which is a percentage of the seats occupied by women in the lower house of the national legislature, as of March 2020 (Inter-Parliamentary Union, 2020). The Inter-Parliamentary Union is an excellent resource as it provides up to date, extensive and reliable information on countries and their parliaments. "Women" is defined as those that are women in

national census' or governmental documentation, so those who by governmental records are defined as women (Inter-parliamentary Union, 2020).

Countries with parliaments that have recently been dissolved were not included on the IPU database. Of these countries those classed as electoral democracies were added into the dataset, as of the most recent election before the parliament was dissolved to have as representative a sample as possible. This information was taken from the country specific page with historical data (Inter-Parliamentary Union, 2020).

Figure 2 is a histogram of the frequency of the dependent variable. The graph shows the normal distribution, with the mean being at 23.87%. This is close to the global average of 24.7%, including non-electoral democracies therefore suggests that my sample is representative of the world. The histogram also shows that no country has a representation of women above 55% and three have a representation of women at 0%. This demonstrates the country variance which this study aims to explain.

Figure 2: Histogram percent women:



## Explanatory Variables:

The explanatory variables were taken from the Inter-Parliamentary Union, United Nations, UN Stats, the World Bank, IDEA and Women's Suffrage and beyond (Inter-parliamentary Union, 2020) (UN Stats, 2020) (International Institute for Democracy and Electoral Assistance, 2020) (World Bank, 2019) (Women's Suffrage and Beyond, 2017). In line with the hypotheses described above, I have grouped the independent variables to better understand how structural, socio-economic, and historical factors affect the percentage of women represented in national legislatures.

#### <u>Structural:</u>

The first structural variable is a binary variable *PR*. This was transformed from a categorical variable, *votesystem*, which listed the four key types of voting system from the IPU database (Inter-Parliamentary Union, 2020). These are (1) Mixed system, (2) other system, (3) Plurality/majority, (4) Proportional Representation (PR). When diagnostic tests were undertaken and outliers were removed, there was only one observation for some of the categories. Because this study's focus is on the effect of PR system, a binary variable looking at PR was employed as there cannot be categories with only one observation.

This variable will have its own model in a bivariate regression because the study hopes to evaluate the usefulness of PR which older studies suggested was most important. To accept hypothesis 1 there would be a significant relationship when comparing PR to all other systems. We would expect countries with PR systems to have a higher percentage of women in parliament.

The quota variable was exported from the IDEA database (International Institute for Democracy and Electoral Assistance, 2020). It originally was labelled *quotatype* and included three categories of no quota, legislated candidate quota and reserved seats quota. The study only uses quotas that were written into the constitution or the electoral law because the use of voluntary party quotas varies so much within countries that they would not offer suitable results.

The reserved seats variable in *quotatype* only has 1 observation therefore, like the *votesystem* variable, it cannot be used. Instead, a binary variable coded 0 "no quota" and 1 "constitutional or legal quota" will be used in the models to consider the effect of the implementation of a quota by law rather than the type of quota. In a

similar vein, the study is not concerned with the size of the quota as this is more suitable in smaller regional level studies. The validity of hypothesis 2 will be determined by considering the coefficients, p-values and AIC of the models produced using quota variables.

Hypothesis 3 will be investigated by comparing the AIC and r-squared of models 1, 2 and 4. For me to accept hypothesis 3 I would expect the r-squared to increase only a small amount and the AIC to decrease marginally, when the additional variables are added to the model with structural variables.

#### Socio-economic:

The year of the most recent election was taken from the IPU database to allow for the lagged effects of socio-economic variables to be included (Inter-Parliamentary Union, 2020). This was not necessary for historical or structural variables due to the nature of them.

The first variable considered to examine socio-economic effects was GDP as enough of the existing literature had suggested that there was some link between the economic situation of the country and the percentage of women in parliament. However, in initial diagnostic tests no linear relationship was found and no significance level with GDP. It is possible this is due to the nature of inequality in some countries where high GDP does not translate to development level. Because of the relationship found by Pourgerami between higher levels of development and higher levels of democracy (Pourgerami, 1988) the study turned to looking at development indicators instead of GDP.

The development scale variable is ordinal ranging from "least developed" (1), "developing" (2), "developed" (3) coded *devscale*, taken from the UN Stats database (UN Stats, 2020). This allowed for the examination of the economic and social effects that come into play in this relationship.

The development level of the country is cross-referenced to check that the development level indicated in the dataset imported from UN Stats (UN Stats, 2020) is accurate for the year of the last election from the IPU database (Inter-Parliamentary Union, 2020). We would expect a more developed country to have more women represented in their parliament compared to developing countries.

The second socioeconomic variable considered is the percentage of women in official paid jobs, i.e. the government had formal record that they were being paid from data taken from the World Bank (World Bank, 2020). This was coded *lagpaid*, taken from the year before the election to ensure a causal effect can be measured. Using this indicator attempts to solve some of the issues described by Yoon when considering the effect of a standard women in work on the percentage of women in national legislature. Because it is important for women to work in paid jobs in order to gain the skills they need, using a simple percentage of women in work indicator often brings bias in less developed countries where the percentage of women in work is high but in the informal sector where they are less able to gain the skills and resources needed to get elected to parliament (Yoon, 2004).

Instead, the *lagpaid* measure considers the percentage of women in paid jobs and therefore is a better indicator of the percentage of women gaining the knowledge and resources. In this way, this study aims to explore the relationship between

women in work and women in parliament while accounting for possible bias that other studies have experienced.

For the 15 missing values in the *lagpaid* variable these were recoded with the mean for the entire dataset. For me to accept this hypothesis I would expect a significant relationship with a positive correlation between *percentwomen* and *lagpaid*.

#### Historical:

Women's suffrage over history is complicated. For example, in the United Kingdom women over the age of 30 first got the vote in 1918, but men could vote if they were over the age of 21 at this time, universal suffrage was not achieved until 1928 (Women's Suffrage and Beyond, 2017). In countries with recent histories of racism, for example South Africa, white women received the vote in 1930 however black south Africans, male or female did not gain suffrage until 1994 (Women's Suffrage and Beyond, 2017). In this case, to include the year that universal suffrage was achieved could show race issues, rather than women's issues. However, due to the complex nature of many countries' histories this study will use the years since universal suffrage was achieved assuming that the size of the dataset should still show overall trends.

The study calculates the years between suffrage and the election modelled to create a continuous variable *yrssuffrage*. This variable has been taken from the Women's' Suffrage and Beyond database (Women's Suffrage and Beyond, 2017) showing years each country achieved suffrage and cross-referenced with the information on the IPU database.

A two-way scatter plot to test for linearity between *percentwomen* and *yrssuffrage* showed some variables that had not been correctly merged from the original *suffrage* dataset. This was rectified before continuing.

The second historical variable to be modelled is the number of years since the first woman was elected to parliament and the election being examined for each individual country coded *femparl*. Year the first woman entered parliament was taken from the IPU database (Inter-parliamentary Union, 2020), and calculated using the year of the election being modelled. For the hypothesis to be accepted the higher the number of years since the first woman was elected, the higher the percentage of women elected in parliament, compared with other countries.

## V. Results and Analysis

The principle argument of this analysis is that historical factors are often overlooked by the effect of structural factors in explaining the percentage of women represented in the national legislature of electoral democracies globally. Also, this paper seeks to explore the importance of structural factors that have previously been important in explaining the percentage of women and better understand socioeconomic factors.

#### Descriptive Statistics:

Figure 4 shows the descriptive statistics for the 105 electoral democracies in the dataset and the independent variables being used. The largest number of

countries in the dataset come from Europe, but this is unsurprising as this region has many electoral democracies. The smallest number of countries comes from Asia, which again represents the global spread of electoral democracies relatively well.

Variable	Observations	Mean	Standard Deviation
Percentwomen	105	23.87	11.73
PR	105	0.53	0.50
Quota	105	0.36	0.48
Development Scale	105	2.32	0.67
Percentage of women in paid work	105	68.64	23.98
Years since universal suffrage was achieved	105	73.49	18.96
Years since first woman elected to parliament	105	57.49	27.17

Figure 3: Summary of Statistics:

Diagnostic Tests:

To test for outliers, Cooks Distance<sup>1</sup> test was used which can be found in Graph 1 of the appendix. This test showed eight outliers, and when removed, the rsquared improved dramatically and there was some change to the coefficients and p-values. As a result, these 8 countries were removed creating the dataset of 105 observations. It was this test that produced categories for *votesystem* and *quotatype* with only one observation and so binary variables were created from these to manage this.

<sup>&</sup>lt;sup>1</sup> First a normal regression was run with 113 observations. Cooks Distance test was then run, which found 8 observations that exceeded the boundary 4/113=0.04. When these were removed, r-squared improved dramatically and so 105 observations were used instead.
One assumption of OLS that is important to note is that it assumes a linear relationship (Fidell, 2013). This was explored using two-way scatter plots that can be found in graphs 2-5 of the appendix. The relationship on the variables is linear and so an OLS regression is appropriate.

To test for multi-collinearity VIF test on all models can be found in the appendix, table 2. All values were below 10, the threshold for linear dependency (Alin, 2010), therefore the data is appropriate. The Breusch Pagan test was used to test for heteroskedasticity. The chi-2 produced was significant in some of the models and so robust standard errors were employed to account for this.

### Multivariate Regression:

Table 1 shows the five nested models with their coefficients, significance levels, r-squared and AIC.

Firstly, it is important to consider the r-squared and the AIC in relation to all the nested models in Table 1. Models 4 and 5 both have an equal r-squared at 0.45 suggesting that these models and their variables both account for 45% of the variance in *percentwomen*. This is relatively high for a study such as this therefore demonstrates the strength of the models. When comparing the AIC for parsimony, it is easier to determine which is the better model. Notably model 4 achieves the lowest AIC score of all the models at 767.43 while Models 1, 2, 3 and 5 all have an AIC exceeding 770. This leads us to the conclusion that Model 4 is the most parsimonious model.

Table '	1 – A	I nestec	I Models:
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	(1)	(2)	(3)	(4)	(5)
	Model 1	Model 2	Model 3	Model 4	Model 5
PR	8.64***	7.36**	3.07	2.21	2.20
	(2.15)	(2.42)	(2.12)	(2.18)	(2.35)
quota		4.32	$6.06^{**}$	$6.20^{**}$	$6.95^{*}$
		(2.50)	(2.10)	(2.16)	(3.12)
Lesst Dereilen eil			0.2(*	4 71	2.46
Least Developed			-8.30	-4./1	-3.40
			(3.98)	(4.12)	(3.17)
Developing			-5.49*	-3.29	-2.96
Developing			(2.37)	(2.70)	(3.83)
				× ,	· · · ·
lagpaid			0.13*	$0.10^{*}$	$0.10^{*}$
			(0.05)	(0.05)	(0.05)
formarl				0.11**	0.12**
Tempari				(0.04)	(0.12)
				(0.04)	(0.04)
vrssuffrage				0.06	0.06
<i>j1000111</i> 080				(0.05)	(0.05)
					4.00
1.quota#1.devscale					-4.22
					(4 67)
					(1.07)
1.quota#2.devscale					-0.78
					(4.93)
cons	19 27***	18 30***	14 77**	4 60	4 28
_00115	(1.61)	(1.53)	(4.71)	(6.61)	(7.79)

Nested OLS Regression of Percentage Women in Parliament

Standard errors in parentheses \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

AIC

Rsquared

Ν

802.61

105.00

0.14

777.06

105.00

0.37

767.43

105.00

0.45

771.03

105.00

0.45

801.08

105.00

0.16

When considering the relationship with PR and *percentwomen* in Model 5, there is no statistically significant relationship, despite the coefficient being in a positive direction. As a result, we cannot accept hypothesis 1 with any confidence that a PR system facilitates an environment with a higher percentage of women in parliament than using other systems. However, it is important to note here that in the simple bivariate regression of model 1 and the multivariate regression of all structural variables in model 2, this relationship between *PR* and *percentwomen* is significant at a p<0.001 level in model 1 and p<0.01 level in model 2. This suggests that a proportional representation vote system is significant to a degree on its own, however when other variables are considered, the variance that this variable accounts for is covered by other variables. With this in mind we can also conclude that older studies which previously saw the voting system as the most important determiner of the percentage of women in parliament no longer hold as much weight and it is correct to reassess other variables, as models 4 and 5 do.

The other structural variable is the binary *quota* variable. This variable is significant at the p<0.05 level in model 5, leading us to conclude that we can be 90% confident that having a quota written into the constitution or electoral law has a positive impact on the percentage of women in parliament, compared with not having a quota and therefore accept hypothesis 2. It is interesting to note here that in model 1, the quota variable has no significance but with the addition of socio-economic variables it gains significance, reaching the highest significance in model 4 of p<0.01 with a positive coefficient. Because of this relationship and because we had already tested for multi-collinearity with no concerning VIFs, we chose to run an interaction term on quota and development scale to see if there was any interaction here. Indeed, as the literature suggests, often it is countries which are more developed

that have a higher level of democracy that do not believe in quotas, like in the Nordic case (Studlar and McAllister, 2002) (Bano, 2009).

However, in the case of the interaction term in model 5, none of the coefficients reach the lowest significance level of p<0.01. Therefore, we cannot accept hypothesis 2a that there is an interaction between development level and having a quota at any level on the development scale.

When looking at socio-economic variables their relationship to *percentwomen* is varied and does not always agree with the literature. For development scale, the highest level of development "developed" is used as the base line against the lower tiers of development. In model 5, both coefficients are negative but do not satisfy any of the significance levels therefore we cannot accept hypothesis 4 with any confidence that the level of development influences the percentage of women in parliament.

However, like with *PR*, this relationship is significant at a p<0.05 level in model 3 where only structural and socio-economic variables are considered. While this is a relatively low significance level, it does suggest that some of the relationship between *devscale* and *percentwomen* is accounted for by the historical variables that are added in models 4 and 5. However, this significance level is so low that we have chosen not to take this relationship any further.

*Lagpaid* is also included in models 3, 4 and 5 and is the only socio-economic variable that reaches significance level above p<0.01 in all models. This leads us to accept hypothesis 5 with 90% confidence that as the percentage of women in paid work increases, so does the percentage of women in parliament.

The relationship between *lagpaid* and *percentwomen* is shown graphically in figure 5 where there is a positive relationship between the percentage of women in paid work and the percentage of women in parliament. However, the slope of this graph is relatively shallow suggesting that this has a small effect, only increases by 6%. Indeed, with a one unit increase in *lagpaid* we can expect a 0.10 unit increase in the percentage of women in parliament. While this is a relatively low coefficient, it still highlights the positive driving force that more women in paid work leads to more women entering politics because of the skills, confidence, and resources they gain from this employment, strengthening hypothesis 5.



Figure 4: Margins Lagpaid with all others held at the mean

The r-squared in model 3 has increased to 0.37, compared with 0.16 of model 2. This suggests that model 3 now accounts for 37% of the total variance of *percentwomen*. Also, the AIC has dropped significantly to be lower than both models 1 and 2 suggesting that with the addition of the socio-economic variables the model improves in parsimony. This demonstrates the strength of considering both structural and socio-economic variables in an investigation such as this. Previous literature has suggested that structural variables are far more important than socio-economic variables in explaining the percentage of women in parliament (Rule, 1987). However, the results of this study demonstrate that socio-economic variables and structural variables are equally important in explaining the variance in *percentwomen* and both must be considered to understand the full picture, this leads to the rejection of hypothesis 3.

Moreover, the change in r-squared and AIC from models 3 to models 4 suggest that historical variables should also be considered on the same level as structural and socio-economic as the addition of these groups of variables raise the variance accounted for to 45% and makes it a more parsimonious model than just using one grouping of variables.

When considering historical variables in model 4, *femparl* is significant at the p<0.05 level with a positive coefficient. While the coefficient is small at 0.10, the relationship gives 95% confidence that with a one unit increase in *femparl*, we can expect a 0.10 unit increase in the percentage of women in parliament. This offers support to hypothesis 7, leading us to accept with 95% confidence this hypothesis. This relationship is shown graphically in figure 6, a margins plot with all other variables, held at their means.



Figure 5: Margins at femparl with all others held at means

The confidence intervals on figure 5 are wide at either end of the number of years since the first woman entered parliament. This is likely due to the lower number of cases at either end of *femparl* and therefore does not suggest any weaknesses with the relationship. The line is clearly steeper than the line for *lagpaid* suggesting that this relationship is steeper than the relationship between *percentwomen* and this socio-economic variable.

In the case of the other historical variable, *yrssuffrage*, there is no statistically significant p-value on any of the models. When examining model 4 the coefficient is positive but small. As a result, we cannot accept hypothesis 6 with any certainty that the higher number of years since universal suffrage was achieved suggests more

women will be in parliament and instead accept the null. One reason for this is the weaknesses of using the universal suffrage year. As discussed earlier, this may bring bias when it comes to race rights therefore demonstrates the challenges of exploring historical data.

Model 5 incorporates all base variables previously discussed with an interaction term between development scale and whether a country has a quota or not. As discussed, this was included to explore the increase in significance of *quota* with the addition of the *devscale* variable. However, this relationship satisfies no significance levels at any development scale, despite the negative coefficient. As a result, we cannot accept hypothesis 2a that there is an interaction between having a quota and a lower development level with any significance.

Overall, the models suggest great variation in factors affecting the percentage of women in national legislatures. Structural variables are clearly important and account for 16% variance on their own, however, the strength of PR over other voting systems has clearly changed since research on these in the 1980s when PR was particularly important. Also, these models stress the strength of having a quota which literature has previously debated the usefulness. Similarly, socio-economic variables are important if not more so than structural factors which also shows a difference from older studies where socio-economic variables were thought of as less important than structural factors. When considering historical factors, universal suffrage is a challenging measure to use and one which has drawn few conclusions. However, the number of years since the first woman entered parliament does suggest that those countries who have made an earlier move towards equality, are reaping the benefits of more women in parliament more than those who took longer.

### Maximum Theoretical Impact:

It is also important to consider the difference in effect size on the dependent variable to determine which has a greater effect. Due to the categorical nature of some of the variables, standardised beta coefficients are not suitable. Instead, Maximum Theoretical Impact allows for comparison between variables and their effect sizes by looking at the ranges and coefficients<sup>2</sup>. The coefficients used are taken from model 4 which includes all variables without interactions to see the full impact of the variables when all others are held at 0. These have been calculated by hand and can be found in the table below:

Figure	7 – M	laximum	Theoretical	Impact	Values:
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Variable	Maximum Theoretical Impact Value
PR	2.21
Quota	6.20
1 Dev scale compared with developed 3	-4.71
2 Dev scale compared with developed 3	-3.29
Lagpaid	9.03
Femparl	12.32
yrssuffrage	5.46

Looking at the Maximum theoretical impact we can conclude that *femparl* has the largest possible effect on the percentage of women in parliament, compared with any other variables with a figure of 12.32. This further suggests the strength of historical factors that have previously been overlooked and strengthens hypothesis 7 that the more years passed since the first woman entered parliament, the higher percentage of women in parliament.

<sup>&</sup>lt;sup>2</sup> Maximum Theoretical Impact was calculating by multiplying the coefficients in Model 4 with the ranges of the variables. Results found in figure 7.

In the case of structural factors, the value for *quota* is relatively high in a positive direction however *PR* has the weakest impact on *percentwomen*. This leads us to reject hypothesis 3 that structural factors have more impact than other on *percentwomen* and instead see this change from previous studies. *Lagpaid* is relatively high, second highest figure, suggesting that elements of structural, socio-economic, and historical are all important together, not one more than the other. This also suggests that it is better to see individual factors in relation to *percentwomen*, not in groups as structural, socio-economic, and historical.

#### Weaknesses of the data:

Firstly, the binary nature of *PR* and *quota* variables miss out other information that may be involved in *votesystem* and *quotatype*. In this study this was impossible to change due to only having one observation for some of the categories. However, in future studies it would be interesting to investigate other types of vote system or quota to better understand the relationship of these to the percentage of women in parliament.

Moreover, while a strength of this study is that it examines many countries, 105 electoral democracies, which has rarely been attempted before, the number of countries introduces far more variance. This is a weakness to some degree as the models produce far fewer statistically significant relationships than some other studies. However, it also demonstrates the variance in a multi-national study which fits this study within the scope of other literature.

Additionally, some may criticise the use of the Freedom House electoral democracy list over other ratings of democracy, like the Economist Intelligence Unit or the Gastil Index. The Freedom House index for electoral democracies was chosen for this study because Freedom House is well regarded as being accurate and up to date and focuses on structural factors of democracy which are essential in enabling more women to be represented. Therefore, while some may dispute the use of some observations as "democracies" it allows for the creation a larger dataset, using structural aspects of democracy.

One aspect this study does not look too deep into is the internal factors of each individual country. Several scholars have investigated regional social and ideological factors in much more detail and this is perhaps where much of the variance not accounted for in this model lies (Yoon, 2004) (Kunovich, 2003) (Rittberger, 2014). I chose not to include these indicators as they are hard to quantify and are better suited to regional level analyses.

Finally, it is important to understand that this research can only go so far. Women in parliament are important if power is also there. In some societies, there are many women represented, but little actual power given to them and in this case the percentage of women becomes irrelevant. Moreover, even if there are more women in national legislatures, there will still be a major gap in privilege (Acker, 1992). These female MPs are likely to be cis- gendered, white, upper/middle class, well-educated and able-bodied women (June Eric Udorie, Guardian 2017). As a result, it is important to see this work as part of the wider debate and investigation into women's role in society and its power structures.

### **VI.** Conclusion

In conclusion, this study has shown that the percentage of women occupying seats in national legislatures is an issue of global importance and one which affects the entire population of the world. There is substantial evidence from gender studies and international organisations that more women in national parliaments make an impact on the women they represent and other areas of society, helping to make the system of that country fairer and more democratic. However, women cannot occupy positions in society to make a difference if the existing discriminatory structures and access to resources are not dealt with. Certain variables have influenced the dismantling of this discrimination.

Existing literature has shown the variation between countries of the percentage of women occupying seats in parliament. The literature led to the creation of three key areas for further analysis structural factors, socio-economic factors, and historical factors. The results from this study demonstrate the variation between countries in the percentage of women in parliament.

The results suggest that having a PR vote system is important in contributing to more women entering parliament as the literature suggests, however when combined with socio-economic and historical variables, the strength of this relationship becomes weaker. Socio-economic conditions are more important on a global scale than the literature expected them to be in a regional level analysis, suggesting the differences between these types of study. When considering the influence of historical factors, the amount of years passed since the first woman was elected to parliament, is important in explaining *percentwomen*. However, yrssuffrage is a problematic variable.

The OLS regression carried out has allowed for the acceptance of hypotheses 2, 4, and 7 but with no more than 95% confidence for each. The results suggest that the issue of female representation in national parliaments is extremely complicated with multiple different factors. Creating a model with over 45% variance accounted for by 6 variables suggests that Models 4 and 5 are explaining a high amount of the variance in the dependent variable. However, there is a relatively low number of statistically significant relationships. This is comparable with other studies on similar themes and therefore shows the challenges associated with doing global analysis.

The issue of women's representation in national legislatures is complicated and multi-faceted. The literature that considers specific regions can help to explain more general global trends but cannot prove them. The importance of quotas, the percentage of women in paid work and the years since the first woman was elected to parliament has been shown in this study to be especially important. However, the variation in factors suggests that the issues here are country specific and few broad trends can be drawn with any certainty. The quota variable is also one which has far more impact on individual countries and make it hard to consider on a global scale.

This analysis certainly helps to stress the importance of structural and historical factors when considering the representation of women in national legislatures. This is a particularly important aspect of political life that many governments have turned their focus to in the last couple of years to improve democracy. This research can also be used to suggest ways in which conditions can be created for other marginalised groups to also gain better representation so that

A.H. Birch's idea of "demographic" representation can be achieved for all (Birch, 1971).

## Word Count: 10,822

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https://data.ipu.org/compare?field=chamber%3A%3Acurrent women percent&structure=an
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<u>y\_lower\_chamber#map</u>

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participation/facts-and-figures#notes

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### **VIII.** Appendix

### Key Words and Abbreviations:

*Direct discrimination* - the unjust or prejudicial treatment of different categories of people, especially on the grounds of race, age, or sex (Norris et al, 1995)

*Imputed discrimination* - selectors discriminate against a candidate and do not choose them to represent the party because they don't believe that the electorate will vote for them because they hold specific characteristics (Norris et al, 1995)

IPU - Inter-Parliamentary Union

PR – Proportional Representation

*Somatic Norm* - complex of physical characteristics that are accepted by a group as the norm (Puwar, 2004)

UN - United Nations

### Table 2 – List of Hypotheses

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### LIST OF HYPOTHESES:

H1	Countries that have Proportional Representation voting systems will have a higher percentage of women in parliament than countries without PR systems
H2	Countries with a quota implemented by law will have a higher percentage of women in their parliament than countries with no legal quota
H2A	The impact of a gender quota on the percentage of women in parliament will differ dependent on the development level. Less developed countries will find quotas increase the percentage of women in parliament more than gender quotas do for more developed countries
H3	Structural variables have a more significant effect on the percentage of women in parliament than socio-economic or historical variables
H4	Developed countries will have a higher percentage of women in their national legislatures than developing countries
H5	The percentage of women in paid work will be positively correlated with the percentage of women in the national legislature
H6	The greater number of years since women's suffrage, the higher the percentage of women elected to parliament in the year of the most recent election
H7	The greater number of years since the first woman was elected to parliament, the greater the percentage of women represented in the lower house of the national legislature

Table 3 VIF Models 1-4:

VARIABLES	VIF	1/VIF
PR	1.33	0.752633
QUOTA	1.20	0.832899
DEVSCALE 1	2.74	0.365216
DEVSCALE 2	1.98	0.506145
LAGPAID	2.39	0.418536
FEMPARL	1.69	0.591981
YRSSUFFRAGE	1.65	0.605733
MEAN VIF	1.85	

Graph 1 – Cooks Distance





Graph 2 – Two way scatter plot percentwomen devscale

Graph 3 – Two way scatter plot percentwomen lagpaid





Graph 4: Two way scatter plot percentwomen femparl

Graph 5: Two way Scatter Plot percentwomen Yrssuffrage



#### Log File:

\_\_\_\_\_ \_\_\_\_\_ name: <unnamed> log: C:\Users\andre\Documents\9.Pip\Dissertation\final1.log log type: text opened on: 12 May 2020, 15:49:34 . insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\DV.csv" (6 vars, 196 obs) . \*\*\* need to drop titles, rename variables and capitalise countries . drop in 1/6 (6 observations deleted) . drop v1 . rename v2 country . rename v3 chamber . rename v4 percentwomen . rename v5 structure . drop v6 . drop in 1 (1 observation deleted) . \*\*\* Made country names upper case as this will make it easier when combining with other datasets: . replace country=upper(country) (189 real changes made) \*\*\* Now I have a consistent data set that has all the countries' IPU data I want to add in the electoral democracy dataset from Freedom in the World 2020 (2019). . \*\*\* First I clear my IV and input FIW dataset so that I can make sure this dataset is also clean. . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) (note: file final1.dta not found) file final1.dta saved . clear . insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\electoraldems.csv" (2 vars, 197 obs) . browse . drop in 1 (1 observation deleted) . rename v1 country

. rename v2 electoraldem . drop in 1 (1 observation deleted) . replace country=upper(country) (195 real changes made) . sort country . saveold electoraldems.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file electoraldems.dta saved . clear . use final1.dta . sort country . merge m:m country using electoraldems.dta (note: variable country was str37, now str53 to accommodate using data's values) # of obs. Result \_\_\_\_\_ not matched 48 from master 21 ( merge==1) 27 (\_merge==2) from using matched 168 ( merge==3) \_\_\_\_\_ . \*\*\* In this merge, some of the countries have been named as different things, e.g. "The Gambia" and "(THE) Gambia". I want to make sure these are all coded the same so that countries match together and will use the IPU database as my reference, recoding all other country names as the IPU calls them. . tab country if merge == 1 | merge == 2 
 country
 Freq.
 Percent
 Cum.

 BOLIVIA
 1
 2.08
 2.08

 BOLIVIA (PLURINATIONAL STATE OF)
 1
 2.08
 4.17

 BRUNEI
 1
 2.08
 6.25

 BRUNEI DARUSSALAM
 1
 2.08
 8.33

 CONGO
 1
 2.08
 10.42

 CONGO (BRAZZAVILLE)
 1
 2.08
 16.67

 CONGO (KINSHASA)
 1
 2.08
 16.67

 COTE D'IVOIRE
 1
 2.08
 16.67

 CÔTE D'IVOIRE
 1
 2.08
 20.83

 DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA
 1
 2.08
 22.92

 ERITREA
 1
 2.08
 22.92

 GAMBIA (THE)
 1
 2.08
 25.00

 GAMBIA (THE)
 1
 2.08
 25.00

 GAMBIA (THE)
 1
 2.08
 27.08

 GUYANA
 1
 2.08
 31.25

 IRAN
 1
 2.08
 31.25

 IRAN
 1
 2.08
 35.42
 < country | Freq. Percent Cum. \_\_\_\_\_+

REPUBLIC OF KOREA REPUBLIC OF MOLDOVA RUSSIA RUSSIAN FEDERATION SAINT KITTS AND NEVIS SAINT UUCIA SAINT VINCENT AND THE GRENADINES SOUTH KOREA ST. KITTS AND NEVIS ST. LUCIA ST. VINCENT AND THE GRENADINES SUDAN SYRIA SYRIAN ARAB REPUBLIC TAIWAN TANZANIA THE GAMBIA UNITED REPUBLIC OF TANZANIA UNITED STATES UNITED STATES OF AMERICA VENEZUELA (BOLIVARIAN REPUBLIC OF) VIET NAM		2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08	52.08 54.17 56.25 58.33 60.42 62.50 64.58 66.67 68.75 70.83 72.92 75.00 77.08 79.17 81.25 83.33 85.42 87.50 89.58 91.67 93.75 95.83 97.92 100.00
Total	+48	100.00	
. clear			
. use electoraldems.dta			
<pre>. replace country = "BOLIVIA (PLURINATION (1 real change made)</pre>	NAL STATE OF)" i	n 21	
<pre>. replace country = "BRUNEI DARUSSALAM" : (1 real change made)</pre>	in 25		
<pre>. replace country = "CONGO" in 39 (1 real change made)</pre>			
<pre>. replace country = "CôTE D'IVOIRE" in 42 (1 real change made)</pre>	2		
<pre>. replace country = "DEMOCRATIC PEOPLE'S (1 real change made)</pre>	REPUBLIC OF KOF	REA" in 127	
<pre>. replace country = "DEMOCRATIC REPUBLIC (1 real change made)</pre>	OF THE CONGO" i	.n 40	
<pre>. replace country = "GAMBIA (THE)" in 174 (1 real change made)</pre>	1		
<pre>. replace country = "IRAN (ISLAMIC REPUB) (1 real change made)</pre>	LIC OF)" in 78		
<pre>. replace country = "LAO PEOPLE'S DEMOCRA (1 real change made)</pre>	ATIC REPUBLIC" i	n 92	
<pre>. replace country = "MICRONESIA (FEDERATH (1 real change made)</pre>	ed states of)" i	n 111	
<pre>. replace country = "REPUBLIC OF MOLDOVA' (1 real change made)</pre>	" in 112		
<pre>. replace country = "RUSSIAN FEDERATION" (1 real change made)</pre>	in 142		
. replace country = "REPUBLIC OF KOREA" :	in 158		

```
(1 real change made)
. replace country = "SAINT KITTS AND NEVIS" in 162
(1 real change made)
. replace country = "SAINT LUCIA" in 163
(1 real change made)
. replace country = "SAINT VINCENT AND THE GRENADINES" in 164
(1 real change made)
. replace country = "SYRIAN ARAB REPUBLIC" in 169
(1 real change made)
. replace country = "UNITED REPUBLIC OF TANZANIA" in 172
(1 real change made)
. replace country = "UNITED STATES OF AMERICA" in 187
(1 real change made)
. replace country = "VENEZUELA (BOLIVARIAN REPUBLIC OF)" in 191
(1 real change made)
. sort country
. saveold electoraldems.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file electoraldems.dta saved
. clear
. use final1.dta
. browse
. replace country = "VIETNAM" in 186
(1 real change made)
. sort country
. merge m:m country using electoraldems.dta
(note: variable country was str37, now str53 to accommodate using data's values)
    Result
                                       # of obs.
    _____
    not matched
                                               6
                                               0
        from master
                                                   ( merge==1)
        from using
                                               6 (merge==2)
                                             189 (_merge==3)
    matched
     -----
. tab country if _merge == 1 | _merge == 2
                                  country | Freq. Percent Cum.
------

      ERITREA |
      1
      16.67
      16.67

      GUYANA |
      1
      16.67
      33.33

      HAITI |
      1
      16.67
      50.00

      KOSOVO |
      1
      16.67
      66.67

      SUDAN |
      1
      16.67
      83.33

      TAIWAN |
      1
      16.67
      100.00

                                     Total |
                                                      6
                                                             100.00
```

. \*\*\* of the countries that did not merge, Haiti, Sudan, and Eritrea are not electoral democracies, we will be deleting them anyway so no need to take further action. Kosovo and Taiwan have disputed rule with Serbia and China respectively and so IPU has no data on them, therefore they also will not be used. Guyana is a state and the data is just missing from the data set I imported. I have found data on Guyana from the IPU website and so will add this in now: . drop in 190 (1 observation deleted) . drop in 191/194 (4 observations deleted) . replace chamber = "Parliament of the Co-operative Republic of Guyana" in 190 variable chamber was str42 now str49 (1 real change made) . replace structure = "Unicameral" in 190 (1 real change made) . replace percentwomen = "32.31" in 190 (1 real change made) . sort country . \*\*\* Now I will drop those countries that are not rated as electoral democracies: . encode electoraldem, generate(electdemoc) . tab electdemoc electdemoc | Freq. Percent Cum 77 40.53 40.53 No | 113 59.47 100.00 Yes \_\_\_\_\_+ \_\_\_\_\_ \_\_\_\_\_ Total | 190 100.00 . tab electdemoc, nol electdemoc | Freq. Percent Cum. 40.53 40.53 40.53 100.00 \_\_\_\_\_ 77 1 | 2 | 113 \_\_\_\_\_ Total | 190 100.00 . drop if (electdemoc == 1) (77 observations deleted) . drop electoraldem . rename merge mergel . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . \*\*\* Now I have a dataset of only electoral democracies, with the most up to date percentage of women in their parliament. I will now start adding in the other variables I intend on using and will delete countries that are not being used in my sample - not electoral democracies.

. \*\* Electoral system: . clear . insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\Elecsystem.csv" (2 vars, 191 obs) . rename v1 country . rename v2 elecsystem . drop in 1 (1 observation deleted) . sort country . saveold Elecsystem.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file Elecsystem.dta saved . clear . use final1.dta . merge m:m country using Elecsystem.dta Result # of obs. \_\_\_\_\_ not matched 77 0 (\_merge==1) from master 77 (merge==2) from using matched 113 ( merge==3) \_\_\_\_\_ . tab country if \_merge == 1 | \_merge == 2 
 country |
 Freq.
 Percent
 Cum.

 AFGHANISTAN |
 1
 1.30
 1.30

 ALGERIA |
 1
 1.30
 2.60

 ANGOLA |
 1
 1.30
 3.90

 ARMENIA |
 1
 1.30
 3.90

 ARMENIA |
 1
 1.30
 3.90

 AZERBAJJAN |
 1
 1.30
 6.49

 BAHRAIN |
 1
 1.30
 6.49

 BARGLADESH |
 1
 1.30
 7.79

 BANGLADESH |
 1
 1.30
 10.39

 BELARUS |
 1
 1.30
 16.9

 NIA AND HERZEGOVINA |
 1
 1.30
 14.29

 BURUNDI |
 1
 1.30
 16.88

 CAMBODIA |
 1
 1.30
 16.88

 CAMEROON |
 1
 1.30
 20.78

 COMOROS |
 1
 1.30
 23.38

 CHAD |
 1
 1.30
 23.38

 CUBA |
 1
 1.30
 24.68

 CĂ'TE D'IVOIRE |
 country | Freq. Percent Cum. \_\_\_\_\_ BOSNIA AND HERZEGOVINA | CRATIC PEOPLE'S REPUBLIC OF NOLL DEMOCRATIC REPUBLIC OF THE CONGO | DJIBOUTI | DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA |

ETHIOPIA   1 1.30 36.36 GANDIA 1 1.30 37.66 GANDIA 1 1.30 37.66 GUINEA 1 1 1.30 40.26 GUINEA 1 1 1.30 40.26 GUINEA - DISANU 1 1.30 44.65 HATTI 1 1.30 44.65 HATTI 1 1.30 44.65 IRAN (ISLAMIC REPUELC 0F) 1 1.30 44.65 NORDAN 1 1 1.30 46.75 JORDAN 1 1 1.30 46.75 KENVA 1 1 1.30 50.65 KUVALTI 1 1.30 50.65 KUVALTI 1 1.30 51.95 KENVA 1 1 1.30 51.95 KENVA 1 1 1.30 51.95 KENVA 1 1 1.30 51.95 KENVA 1 1 1.30 55.84 LIEVA 1 1.30 55.84 LIEVA 1 1.30 55.84 MALDIVES 1 1.30 64.75 MALDIVES 1 1.30 64.75 MALDIVES 1 1.30 64.74 MALDIVES 1 1.30 67.53 NICERECUA 1 1.30 64.74 MALDIVES 1 1.30 64.74 MALDIVES 1 1.30 67.53 NICERECUA 1 1.30 64.74 MALDIVES 1 1.30 77.14 MALDIVES 1 1.30 64.75 NICERECUA 1 1.30 64.74 MALDIVES 1 1.30 64.74 MALDIVES 1 1.30 64.75 NICERECUA 1 1.30 64.75 NICERECUA 1 1.30 77.14 MALDIVES 1 1.30 77.14 MALDIVES 1 1.30 77.12 MALVENDAR 1 1.30 77.92 SUNATORCO 1 1 1.30 77.92 SUNATORCO 1 1.30 87.73 MALVENT 1 1.30 77.92 SUNATORCO 1 1.30 87.73 MALVENT 1 1.30 87.93 MUGRETA 1 1.30 77.92 SUNATORCO 1 1.30 87.93 MUGRETA 1 1.30 87.93 MUGRETA 1 1.30 87.93 MUGRETA 1 1.30 87.92 SUNATORCO 1 1.30 87.93 MUGRETA 1 1.3	<pre>FTHIOFTA   1 1.30 36.36 GRADN   1 1.30 38.96 GUINEA + DISANJ   1 1.30 38.96 GUINEA + DISANJ   1 1.30 41.66 HATTI   1 1.30 44.64 BORDURAS   1 1.30 44.64 IRAN (ISLAMIC REFUGLIC OF)   1 1.30 44.65 KATARHSTAN   1 1.30 46.75 JORDAN   1 1.30 46.75 KATARHSTAN   1 1.30 46.75 KATARHSTAN   1 1.30 54.55 KUNAT   1 1.30 54.55 KUNAT   1 1.30 55.84 LEBANN   1 1.30 55.84 MALDIVES   1 1.30 56.65 KUNAT   1 1.30 56.64 MALDIVES   1 1.30 56.64 MALDIVES   1 1.30 56.74 MALDIVES   1 1.30 56.64 MALDIVES   1 1.30 66.23 NICRARCUA   1 1.30 66.23 NICRARCUA   1 1.30 66.23 NICRARCUA   1 1.30 66.23 NICRARCUA   1 1.30 77.14 MALDIVES   1 1.30 77.14 MALDIVES   1 1.30 66.24 MALDIVES   1 1.30 66.23 NICRARCUA   1 1.30 77.92 SOUTH ANDRARC   1 1.30 77.92 SOUTH   1 1.30 97.92 SOUTH   1</pre>	ESWATINI	1	1.30	35.06	
CAEON   1 1.30 37.66 GMUELA (THED   1 1.30 40.26 GUINEA FIESAU   1 1.30 44.16 HATTI   1.30 44.16 HATTI   1.30 44.16 IRAN (ISLAMIC REPUBLIC OF)   1.30 44.16 IRAN (ISLAMIC REPUBLIC OF)   1.30 44.16 KARAMINI   1.30 44.16 IRAN (ISLAMIC REPUBLIC OF)   1.30 45.55 KURANT   1.30 50.65 KURANT   1.30 50.65 KURATT   1.30 51.95 KURATT   1.30 57.14 MALAYSIA   1.30 57.14 MALAYSIA   1.30 57.14 MALAYSIA   1.30 61.04 MOROCCO   1.30 64.94 MOROCCO   1.30 64.94 MOROCCO   1.30 64.94 MALI   1.30 67.53 NICER   1.30 67.53 NICER   1.30 67.53 NICER   1.30 67.53 NICER   1.30 67.53 NICER   1.30 70.13 OMAN   1.30 77.42 MALI   1.30 67.53 NICER   1.30 67.53 NICER   1.30 70.13 OMAN   1.30 77.92 SINGAPORE   1.30 67.53 NICER   1.30 77.92 SINGAPORE   1.30 77.92 SING	CABON   1   1.30 37.66 GANBIA (THE)   1   1.30 40.26 GUINEA SISSAU   1   1.30 44.16 HATTI   1   1.30 44.16 HATTI   1   1.30 45.45 HATTI   1   1.30 45.45 IRAN (ISLAMIC REPUBLIC OF)   1   1.30 45.45 GUINEA   1   1.30 45.45 IRAN (ISLAMIC REPUBLIC OF)   1   1.30 45.35 KINNN   1   1.30 45.55 KINNN   1   1.30 51.95 KUNAITI   1   1.30 55.84 LAO FSOPLE'S DEMOCRATIC REPUBLIC   1   1.30 55.84 LIEXN   1   1.30 55.84 LIEXN   1   1.30 55.84 LIEXN   1   1.30 56.45 KINNN   1   1.30 56.46 MIAININK   1   1.30 56.46 MIAININK   1   1.30 56.46 MIAININK   1   1.30 66.23 MICARAGON   1   1.30 66.23 MICRARGON   1   1.30 66.23 MICRARGON   1   1.30 71.43 GANAN   1   1.30 71.43 CATARAGON   1   1.30 71.43 CATARAGON   1   1.30 77.32 SUMAINAR   1   1.30 67.53 SAUDI ARABIN   1   1.30 77.32 SUMAINAR   1   1.30 77.32 SUMAINAR   1   1.30 77.32 SUMAINAR   1   1.30 67.01 THENEE ANAE ENTRYN   1   1.30 67.01 THENEE ANAE ENTRYTES   1   1.30 67.01 THENEE ANAE ENTRYTES   1   1.30 67.01 THENEE ANAE ENTRYTES   1   1.30 69.01 UNITED REPUBLIC OF   1   1.30 67.01 THENEE   1   1.30 90.70 ZIMERAE   1   1.30 90.70 ZIMERAE ENTRYTES   1   1.30 90.70 ZIMERAE   1   1.30 90.70	ETHIOPIA	1	1.30	36.36	
CAMBIA (THE)   1 1.30 38.96 GUINEA-BISSAU   1 1.30 44.26 HATTI   1 1.30 44.16 HATTI   1 1.30 44.16 HATTI   1 1.30 44.16 IRAN (ISLAMIC REPUBLIC OP)   1 1.30 46.75 JORDAN   1 1.30 46.75 KAZARHSTAN   1 1.30 46.75 KURAIT   1 1.30 46.75 KURAIT   1 1.30 55.65 KURAIT   1 1.30 55.65 KURAIT   1 1.30 55.65 KURAIT   1 1.30 55.65 KURAIT   1 1.30 55.64 HALDIVES   1 1.30 55.45 LLAO FEOFLE'S DEMOCRATIC REPUBLIC   1 1.30 55.64 HALDIVES   1 1.30 55.44 MALDIVES   1 1.30 66.23 MALTI   1 .30 66.24 MALTI   1 .30 66.23 NICERIA   1 .30 66.63 NICERIA   1 .30 70.13 MALGENEAN   1 1.30 70.27 MALGENEAN   1 1.30 70.27 MALGENEAN   1 1.30 70.27 MALGENEAN   1 1.30 70.22 MALGENEAN   1 1.30 70.22 MALGENEAN   1 1.30 80.52 SAUDI NRABIA   1 1.30 80.52 SAUDI NRABIA   1 1.30 80.52 SAUDI NRABIA   1 1.30 80.52 MALGENEAN   1 1.30 90.51 MALGENEAN	CAMBIA (THE)   1 1.30 80.26 GUINEA = 11.30 41.56 HATTI   1 1.30 41.56 HATTI   1 1.30 44.16 IRAN (ISLAMIC REPUBLIC OF)   1 1.30 44.16 IRAN (ISLAMIC REPUBLIC OF)   1 1.30 46.75 JORDAN   1 1.30 46.75 JORDAN   1 1.30 46.75 JORDAN   1 1.30 49.35 KAZAKHSTAN   1 1.30 49.35 KUNNA   1 1.30 50.65 KUNNA   1 1.30 50.71 HAN (JELENNON   1 1.30 55.84 LIEWA   1 1.30 59.74 MALLYSTA   1 1.30 59.74 MALLYSTA   1 1.30 66.34 MALTI   1 1.30 66.43 MICRARE[]   1 1.30 66.43 MICRARE[]   1 1.30 66.43 MICRARE[]   1 1.30 66.43 MICRARE[]   1 1.30 77.92 SAUDI ARABIA   1 .30 84.42 TOGO   1 .30 85.71 UNITED ARAB FMIRATES   1 .30 86.31 UNITED ARAB FMIRATES   1 .30 86.31 UNITED ARAB FMIRATES   1 .30 86.31 UNITED REPUBLIC OF   1 .30 86.71 UNITED REPUBLIC OF   1 .30 86.71 UNITED REPUBLIC OF   1 .30 99.61 UNITED REPUBLIC OF   1 .30 99.61 UNI	GABON	1	1.30	37.66	
GUINEA HISSAU 1 1.30 40.26 HAITI 1 1.30 42.86 HAITI 1 1.30 42.86 HAITI 1 1.30 44.16 IRAN (ISLAMIC REPUBLIC OF) 1 1.30 46.75 JORDAN 1 1.30 46.75 JORDAN 1 1.30 46.75 KAZARHSTAN 1 1.30 50.95 KUNAIT 1 1.30 50.95 KUNAIT 1 1.30 50.95 KUNAIT 1 1.30 50.44 HALOYES 1 1.30 56.44 MALOTIES 1 1.30 56.44 MALOTIES 1 1.30 56.44 MALOTIES 1 1.30 66.34 MALOTIES 1 1.30 67.53 NICERIA 1 1.30 70.13 MALORAGIO 1 1.30 70.13 MALORAGIO 1 1.30 70.13 MALORAGIO 1 1.30 70.273 QATAR 1 1.30 77.92 SINAPORE 1 1.30 77.92 SINAPORE 1 1.30 77.92 SINAPORE 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 77.92 SINAPORE 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 77.92 SINAPORE 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 85.71 TURKEY 1 1.30 86.52 SOUMALA 1 1.30 86.52 SOUMALA 1 1.30 86.52 KANDA 1 1.30 86.52 SOUMALA 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 86.52 KUSSIAN FEDERATION 1 1.30 86.52 SOUMALA 1 1.30 86.52 SOUMALA 1 1.30 86.52 KANDA 1 1.30 86.51 UNITED FANDELCO 7 1.1.30 86.51 UNITED FEDULICO 7 MALANIA 1 1.30 96.40 KENERUELA (BOLIVARIAN REPUBLICO 7) 1 1.30 96.70 KURANIA 1 1.30 97.40 KURANIA	GUINEA           1         1.30         40.26           HAITI           1         1.30         42.66           HARN (ISLAMIC REPUBLIC OF)           1         1.30         45.45           TRAN (ISLAMIC REPUBLIC OF)           1         1.30         46.75           JORDAN           1         1.30         46.75           JORDAN           1         1.30         46.75           KENTA           1         1.30         56.75           KUNATT           1         1.30         57.74           KUNATT           1         1.30         57.74           MALAYSIN           1         1.30         66.23           MALAYSIN           1         1.30         66.23           NICERIA           1         1.30         77.33           NICARA	GAMBIA (THE)	1	1.30	38.96	
GUINEA-BISSNU           1         1.30         41.56           HANTI           1         1.30         42.86           HANTI CREPUELIC OP           1         1.30         45.45           JRAN (ISLAMIC REPUELIC OP )         1         1.30         46.05           JORDAN 1         1         1.30         46.05           KAZAKHSTAN 1         1         1.30         51.65           KUMAIT 1         1         1.30         51.65           KUMAIT 1         1         1.30         51.75           LAO PEOPLE'S DEMOCRATIC REPUBLIC 1         1         1.30         55.74           MALAYSIA 1         1         1.30         56.74           MALLYSIA 1         1         1.30         56.74           MALLYSIA 1         1         1.30         66.23           MARDITAR 1         1.30         66.23         66.23           NICGRAGUA 1         1.30         67.53         66.23           NICGRIA 1         1.30         76.75         66.23           NICGRAGUA 1         1.30         76.75         74.03           MARANK 1         1         1.30         76.72           NICGRAGUA 1         1.30         77.92 <t< td=""><td>GUINEA-BISSUI         1         1.30         44.6           HATTI         1         1.30         44.6           IRAN (ISLAMIC REPUBLIC OF)         1         1.30         45.45           IRAQ         1         1.30         45.45           IRAQ         1         1.30         45.45           IRAQ         1         1.30         45.45           IRAQ         1         1.30         45.45           KAZARHSTAN         1         1.30         51.95           KUNNT         1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         57.14           MALDIVES         1         1.30         57.14           MALATSIA         1         1.30         57.44           MALTINIA         1         1.30         64.44           MARANTANIA         1         1.30         64.64           MARANTANIA         1         1.30         64.64           MARANTANIA         1         1.30         64.64           MARANTANIA         1         1.30         70.13           MARANTANIA         1         1.30         71.43           MARANTANIA         <t< td=""><td>GUINEA</td><td>  1</td><td>1.30</td><td>40.26</td></t<></td></t<>	GUINEA-BISSUI         1         1.30         44.6           HATTI         1         1.30         44.6           IRAN (ISLAMIC REPUBLIC OF)         1         1.30         45.45           IRAQ         1         1.30         45.45           IRAQ         1         1.30         45.45           IRAQ         1         1.30         45.45           IRAQ         1         1.30         45.45           KAZARHSTAN         1         1.30         51.95           KUNNT         1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         57.14           MALDIVES         1         1.30         57.14           MALATSIA         1         1.30         57.44           MALTINIA         1         1.30         64.44           MARANTANIA         1         1.30         64.64           MARANTANIA         1         1.30         64.64           MARANTANIA         1         1.30         64.64           MARANTANIA         1         1.30         70.13           MARANTANIA         1         1.30         71.43           MARANTANIA <t< td=""><td>GUINEA</td><td>  1</td><td>1.30</td><td>40.26</td></t<>	GUINEA	1	1.30	40.26	
HATTI   1 1.30 44.16 HONDURAS   1 1.30 44.16 IRAN (ISLAMIC REPUBLIC OF)   1 1.30 46.75 JORDAN   1 1.30 46.75 JORDAN   1 1.30 46.75 KENNA   1 1.30 51.95 KUNATTI   1.30 51.95 KUNATTI   1.30 54.53 LAO FEOFLE'S DEMOCRATIC REPUBLIC   1 1.30 55.64 HIETAN   1 1.30 55.64 LEBANON   1 1.30 55.74 HALDYDES   1 1.30 55.74 HALDYDES   1 1.30 55.74 MALDYDES   1 1.30 66.23 MOZAMETQUE   1 1.30 66.24 MOZAMETQUE   1 1.30 66.23 MOZAMETQUE   1 1.30 77.43 MOZAMETQUE   1 1.30 77.43 MAIN   1 1.30 77.43 MAIN   1 1.30 77.73 RUSSIAN FEDERATION   1 1.30 77.73 RUSSIAN FEDERATION   1 1.30 77.23 SOMALTA   1 1.30 77.22 SOMALTA   1 1.30 86.52 KTALERAN   1 1.30 77.92 SOMALTA   1 1.30 77.92 SOMALTA   1 1.30 86.52 KTALERAN   1 1.30 77.92 SOMALTA   1 1.30 77.92 SOMALTA   1 1.30 86.52 KTALERAN   1 1.30 86.52 KTALERAN   1 1.30 77.92 SOMALTA   1 1.30 86.52 KTALERAN   1 1.30 87.52 SOMALTA   1 1.30 86.52 KTALERAN   1 1.30 86.52 KTALERAN   1 1.30 86.52 KTALERAN   1 1.30 87.52 SOMALTA   1 1.30 86.52 KTALERAN   1 1.30 86.571 KTERENN   1 1.30 86.571 KTERENN   1 1.30 86.571 KTERENN   1 1.30 86.701 KTERENN   1 1.30 87.701 KTERENN   1 1.30 97.40 KTERENN   1 1.30 97.40	HATT   1 1.30 44.16 IFAN (ISLAMIC REPUBLIC OF) 1 1.30 45.45 IFAO 1 1.30 46.75 JORDAN 1 1.30 46.05 KAZAKHSTAN 1 1.30 46.05 KAZAKHSTAN 1 1.30 50.63 KUMAIT 1 1.30 50.63 KUMAIT 1 1.30 51.25 LAO PEOPLE'S DEMOCRATIC REPUBLIC 1 1.30 54.84 LIBYA 1 1.30 57.14 MALAYSIA 1 1.30 57.14 MALAYSIA 1 1.30 57.14 MALAYSIA 1 1.30 57.14 MALAYSIA 1 1.30 61.04 MAUNITANIA 1 1.30 61.04 MAUNITANIA 1 1.30 67.04 MAUNITANIA 1 1.30 67.04 MAUNITANIA 1 1.30 67.73 MALAYSIA 1 1.30 67.74 MAUNITANIA 1 1.30 67.74 MAUNITANIA 1 1.30 67.73 MALAYSIA 1 1.30 67.53 NIGERIA 1 1.30 70.13 MUCANEJUE 1 1.30 70.13 MUCANEJUE 1 1.30 77.92 SINCAPORE 1 1.30 81.82 THALIAND 1 1.30 77.92 SINCAPORE 1 1.30 85.71 TURKEVY 1 1.30 87.01 TURKEVY 1 1.30 87.01 TURKEVY 1 1.30 87.01 UNITED ARABIN 1 1.30 87.01 TURKEVY 1 1.30 87.01 UNITED ARABENTAN 1 1.30 87.01 TURKEVY 1 1.3	GUINEA-BISSAU	1	1.30	41.56	
HONDURAS         1         1.30         44.45           IRAN (ISLAMIC REPUBLIC OP)         1         1.30         45.45           JORDAN         1         1.30         46.05           JORDAN         1         1.30         48.05           KAZAKHSTAN         1         1.30         51.95           KUWAIT         1         1.30         51.95           KUWAIT         1         1.30         51.95           LAO FEOFLE'S DEMOCRATIC REPUBLIC         1         1.30         55.74           LAO FEOFLE'S DEMOCRATIC REPUBLIC         1         1.30         55.74           MALAYSIA         1         1.30         56.74           MALLYSIA         1         1.30         66.73           MALDIYAR         1         1.30         66.73           NICARACOA         1         1.30         66.73           NICARACOA         1         1.30         77.43           MARTANIA         1         1.30         77.43           MARANNA         1         1.30         76.22           SUNDA FRABIA         1         1.30         77.62           SUNDA FRABIA         1         1.30         77.62	HONDURAS   1 1.30 44.16 IRAN (ISLAMIC REPUBLIC OF)   1 1.30 46.75 JORDAN 1 1.30 48.05 KAZAKHSTAN 1 1.30 48.05 KAZAKHSTAN 1 1.30 59.35 KUNAT 1 1.30 59.35 KUNAT 1 1.30 59.35 LAO PEOPLE'S DEMOCRATIC REPUBLIC 1 1.30 54.55 LAO PEOPLE'S DEMOCRATIC REPUBLIC 1 1.30 58.44 MALAYSIA 1 1.30 59.74 MALATYSIA 1 1.30 59.74 MALATYSIA 1 1.30 62.34 MALATYSIA 1 1.30 66.23 NICGRATIC NERVENCY 1 1.30 66.23 NICGRATIC 1 1.30 66.23 NICGRATI 1 1.30 70.13 NICGRATI 1 1.30 70.13 NICGRATI 1 1.30 77.92 SUMALIA 1 1.30 79.22 SUMALIA 1 1.30 79.40 SUMALIA 1 1.	HAITI	1	1.30	42.86	
<pre>IRAN (ISLAMIC REPUBLIC OP)   1 1.30 46.75 JORDAN   1 1.30 46.75 KAZAKHSTAN   1 1.30 48.05 KENTA   1 1.30 50.65 KUWAIT   1 1.30 53.25 LAO PEOPLE'S DEMOCRATIC REPUBLIC   1 1.30 53.24 LAO PEOPLE'S DEMOCRATIC REPUBLIC   1 1.30 55.84 MALDIVES   1 1.30 55.74 MALDIVES   1 1.30 55.74 MALDIVES   1 1.30 65.74 MALDIVES   1 1.30 66.74 MAUNITATIA   1 1.30 66.23 MORAMEIQUE   1 1.30 66.64 MOZAMBIQUE   1 1.30 66.64 MOZAMBIQUE   1 1.30 66.84 MILI   1 1.30 77.14 MAUNITATIA   1 1.30 77.14 MAUNITATIA   1 1.30 77.14 MAUNITATIA   1 1.30 77.13 MALDIVES   1 1.30 77.14 MAUNITATIA   1 1.30 77.13 MALDIVES   1 1.30 77.13 MALDIVES   1 1.30 77.13 MAUNITATIA   1 1.30 77.13 MAUNITATIA   1 1.30 77.13 MICERIA   1 1.30 77.92 SIMAPORE   1 1.30 77.92 SIMAPORE   1 1.30 88.31 MICERIA   1 1.30 88.32 MICERIA   1 1.30 88.32 MICERIA   1 1.30 88.32 MICERIA   1 1.30 88.31 MICERIA   1 1.30 89.61 MITTED ARABERIA   1 1.30 89.61 MITTED ARABERIA   1 1.30 97.40 MITTED ARABERIA   1</pre>	<pre>IRAN (ISLAMIC REPUBLIC OF)   1 1.30 46.75 JORDAN   1 1.30 46.75 KAZAKHSTAN   1 1.30 49.35 KAZAKHSTAN   1 1.30 49.35 KUNAIT   1 1.30 50.65 KUNAIT   1 1.30 50.65 KUNAIT   1 1.30 53.25 LAO PEOPLE'S DEMOCRATIC REPUBLIC   1 1.30 54.44 MALDIVES   1 1.30 57.14 MALAYSIA   1 1.30 57.14 MALAYSIA   1 1.30 58.44 MALDIVES   1 1.30 61.04 MAURITANIA   1 1.30 66.23 MOROCCO   1 1.30 66.24 MOROCCO   1 1.30 66.23 MICERIA   1 1.30 67.53 NICERIA   1 1.30 77.14 MALDIVES   1 1.30 66.23 NICERIA   1 1.30 67.53 NICERIA   1 1.30 77.14 MALDIVES   1 1.30 67.53 NICERIA   1 1.30 77.13 MALDIVES   1 1.30 77.14 MAURITANIA   1 1.30 77.13 MICERIA   1 1.30 77.13 NICERIA   1 1.30 77.52 SINGAPORE   1 1.30 77.52 SINGAPORE   1 1.30 84.42 THAILAND   1 1.30 77.92 SINGAPORE   1 1.30 84.71 TURKEY   1 1.30 87.01 NICERIA   1 1.30 87.01 NICERIAN   1 1.30</pre>	HONDURAS	1	1.30	44.16	
URADN   1   1.30   46.75 URADN   1   1.30   48.05 KAZAKHSTAN   1   1.30   50.65 KURMIT   1   1.30   51.35 LAO PEOPLE'S DEMOCRATIC REPUBLIC   1.30   55.84 ILTBYA   1   1.30   55.84 ILTBYA   1   1.30   55.84 MALDIVES   1   1.30   55.74 MALDIVES   1   1.30   62.34 MOROCCO   1   1.30   62.34 MOROCCO   1   1.30   66.23 NICARACUA   1   1.30   66.23 NICARACUA   1   1.30   66.23 NICARACUA   1   1.30   66.23 NICARACUA   1   1.30   66.83 NICARACUA   1   1.30   70.13 RUSSIAN FEDERATION   1   1.30   76.52 SAUDI ARABIA   1   1.30   76.62 SAUDI ARABIA   1   1.30   76.62 SAUDI ARABIA   1   1.30   75.32 SOMALA   1   1.30   75.32 SOMALA   1   1.30   75.32 SOMALA   1   1.30   75.32 SOMALA   1   1.30   88.61 TURKENSISTAN   1   1.30   85.71 TURKENSISTAN   1   1.30   85.71 TURKENSISTAN   1   1.30   85.71 TURKENSISTAN   1   1.30   88.61 UGANDA   1   1.30   88.61 UNITED ARAB EMRATES   1   1.30   90.91 UNITED ARAB EMRATES   1   1.30   90.91 UNITED ARAB EMRATES   1   1.30   90.91 UNITED ARAB EMRATES   1   1.30   90.610 VEMEN   1   1.30   94.81 VENEZUELA (BOLIVARIAN REPUBLIC OP)   1   1.30   94.81 VENEZUELA (BOLIVARIAN REPUBLIC OP)   1   1.30   94.61 VENEZUELA (BOLIVARIAN REPUBLIC OP)   1   1.30   96.70 ZAMETA   1   1.30   96.70 ZA	JORDAN         1         1.30         46.75           KAZAKHSTAN         1         1.30         46.75           KUMAIT         1         1.30         49.35           KUMAIT         1         1.30         50.65           KUMAIT         1         1.30         51.95           KUMAIT         1         1.30         53.25           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         57.14           MALDIVES         1         1.30         57.74           MALTINIT         1         1.30         58.44           MALDIVES         1         1.30         58.74           MALDIVES         1         1.30         57.74           MALDIVES         1         1.30         66.23           NCRAGUAI         1         1.30         66.23           NCARAGUAI         1         1.30         66.43           WYANMAR         1         1.30         76.43           NICARAGUAI         1         1.30         76.43           NICARACE         1         1.30         76.62           SAUDI ARABIA         1         1.30         77.92           SOUTH SUDAN         1	IRAN (ISLAMIC REPUBLIC OF)	I 1	1.30	45.45	
UDRDAN   1 1.30 48.05 KAZAKHSTNN 1 1.30 49.35 KUWAIT   1 1.30 50.65 KUWAIT   1 1.30 51.95 KUWAIT   1 1.30 51.25 LAO PEOPLE'S DEMOCRATIC REPUBLIC   1 1.30 54.55 LAO PEOPLE'S DEMOCRATIC REPUBLIC   1 1.30 55.84 LIEBANON   1 1.30 55.44 MALDYES   1 1.30 55.44 MALDYES   1 1.30 66.23 MALNYIS   1 1.30 66.23 MALNYIS   1 1.30 66.23 NICRE   1 1.30 66.23 NICRE   1 1.30 66.23 NICRE   1 1.30 70.13 NICRE   1 1.30 71.43 PAKISTAN   1 1.30 71.43 PAKISTAN   1 1.30 71.73 GATAR   1 1.30 77.27 SAUD ARABEA   1 1.30 77.27 SAUD ARABEA   1 1.30 77.22 SAUD ARABEA   1 1.30 88.31 UGANDA   1 1.30 88.52 SOUTH SUDAN   1 1.30 88.51 TALKISTAN   1 1.30 88.51 UGANDA   1 1.30 88.51 UGANDA   1 1.30 88.51 UGANDA   1 1.30 88.61 UUNITED ARABEA   1 1.30 88.51 TURKMENISTAN   1 1.30 88.61 UUNITED ARABEA   1 1.30 90.91 UNITED ARAB	JORDAN   1 1.30 49.05 KAZARHSTAN   1 1.30 49.05 KUWAIT   1 1.30 50.65 KUWAIT   1 1.30 51.95 KUROYZSTAN   1 1.30 55.25 LAO PEOPLE'S DEMOCRATIC REPUBLIC   1 1.30 55.64 LIBYA   1 1.30 55.64 MALAYSIA   1 1.30 55.64 MALAYSIA   1 1.30 62.34 MALAYSIA   1 1.30 62.34 MALAYSIA   1 1.30 66.23 NIGER   1 1.30 66.64 MOZAMBIQUE   1 1.30 66.623 NIGER   1 1.30 66.63 NIGER   1 1.30 70.13 MIGRIAN   1 1.30 70.13 NIGER   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.52 SAUDI RANDA   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 83.12 THALLAND   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKEY   1 1.30 87.01 TURKEY   1 1.30 87.01 TURKEY   1 1.30 97.40 SOUTH SUDAN   1 1.30 87.01 TURKEY   1 1.30 87.01 TURKEY   1 1.30 97.40 SOUTH SUDAN   1 1.30 87.01 TURKEY   1 1.30 97.40 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 90.91 UNITED ARAB EMIRATES   1 1.30 97.40 ZIMBADE   1 1.30 97.40 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 3.00 97.40 ZIMBADE   1 1.30 97.40 YEMEN   1	IRAO	1	1.30	46.75	
KAZAKESTAN         1         1.30         49.35           KUWAI         1         1.30         51.95           KUWAIT         1         1.30         53.25           LAO FEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         53.25           LENANON         1         1.30         53.25           LENANON         1         1.30         55.84           LIBYA         1         1.30         55.74           MALDIVES         1         1.30         62.34           MALDIVES         1         1.30         66.23           MOROCOO         1         1.30         66.23           NICGRAGUA         1         1.30         70.13           NICGRAGUA         1         1.30         70.13           MANN         1         1.30         70.13           NICGRAGUA         1         1.30         70.13           RUSSIAN FEDERATION         1         1.30         76.62           SADDI ARABIA         1         1.30         77.92           SOMALIA         1         1.30         80.52           SOUTH SUDAN         1         1.30         80.51           TAJIKISTAN         1 </td <td>KAZAKBETAN         -         1         1.30         49.35           KUNAT         1         1.30         50.65           KUNATT         1         1.30         51.95           KUNATT         1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         53.25           LEBANON         1         1.30         57.14           MALDIVES         1         1.30         57.74           MALDIVES         1         1.30         57.74           MALDIVES         1         1.30         62.34           MCROCCO         1         1.30         62.34           MCRACID         1         1.30         66.23           NICARCUL         1         1.30         66.23           NCARCUL         1         1.30         66.23           NICARCUL         1         1.30         70.13           QATAR         1         1.30         74.03           RUSSIAN FEDERATION         1         1.30         76.62           SAUDI ARABIA         1         1.30         76.62           SUNDAPORE         1         1.30         83.12           THAINANO</td> <td>TORDAN</td> <td>1 1</td> <td>1 30</td> <td>48 05</td>	KAZAKBETAN         -         1         1.30         49.35           KUNAT         1         1.30         50.65           KUNATT         1         1.30         51.95           KUNATT         1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         53.25           LEBANON         1         1.30         57.14           MALDIVES         1         1.30         57.74           MALDIVES         1         1.30         57.74           MALDIVES         1         1.30         62.34           MCROCCO         1         1.30         62.34           MCRACID         1         1.30         66.23           NICARCUL         1         1.30         66.23           NCARCUL         1         1.30         66.23           NICARCUL         1         1.30         70.13           QATAR         1         1.30         74.03           RUSSIAN FEDERATION         1         1.30         76.62           SAUDI ARABIA         1         1.30         76.62           SUNDAPORE         1         1.30         83.12           THAINANO	TORDAN	1 1	1 30	48 05	
KENTA         1         1.30         50.65           KUWAIT         1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         53.25           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         55.84           LIPYA         1         1.30         55.84           MALAYSIA         1         1.30         58.44           MALDYES         1         1.30         62.34           MANDRUES         1         1.30         66.23           MOROCOO         1         1.30         66.23           MOROCOO         1         1.30         66.23           NICERIA         1         1.30         70.13           OATAR         1         1.30         77.33           OATAR         1         1.30         77.52           SAUDI ARABIA         1         1.30         77.92           SINGAPORE         1         1.30         83.12           TAJIKISTAN         1         1.30         79.22           SOUNI SUDAN         1         1.30         84.42           TOCO         1         1.30         85.71           TAJIKISTAN         <	KENNA           1         1.30         50.65           KURCYZSTAN           1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC REPUBLIC           1         1.30         55.28           LAO PEOPLE'S DEMOCRATIC REPUBLIC           1         1.30         55.84           LIBYA           1         1.30         55.84           MALAYSIA           1         1.30         58.44           MALDYUSS           1         1.30         61.04           MALTYIA           1         1.30         62.34           MOROCCO           1         1.30         64.94           MYANMAR           1         1.30         66.23           NICGRIA           1         1.30         67.53           NICGRIA           1         1.30         70.13           OATAR           1         1.30         71.43           PARISTAN           1         1.30         72.73           QATAR           1         1.30         74.03           RUSSIN FEDERATION           1         1.30         74.03           SOUTH SUDAN           1         1.30         83.12           SOUTH SUDAN           1         1.30         83.12 <td>KAZAKHSTAN</td> <td>1 1</td> <td>1 30</td> <td>49 35</td>	KAZAKHSTAN	1 1	1 30	49 35	
KUMAIT         1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         53.25           LAD PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         55.84           LIEYA         1         1.30         55.84           MALAYSTA         1         1.30         55.74           MALDIVES         1         1.30         55.74           MALDYTENIA         1         1.30         62.34           MCRCCO         1         1.30         66.23           MCRAGUA         1         1.30         66.83           NICERR         1         1.30         77.13           OMAN         1         1.30         76.62           NICERRATION         1         1.30         77.43           PAKISTAN         1         1.30         77.52           SAUDI ARABEA         1         1.30         77.92           SOMALIA         1         1.30         77.92           SOMALIA         1         1.30         87.91           TURKEY         1         1.30         88.12           TAJIKISTAN         1         1.30         88.71           TOCO <t< td=""><td>KUWAIT         1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC PEVELIC         1         1.30         54.55           LEDRANNN         1         1.30         57.14           MALAYSIA         1         1.30         57.14           MALAYSIA         1         1.30         57.14           MALTNINA         1         1.30         57.14           MALTNINA         1         1.30         57.74           MALTNINA         1         1.30         62.34           MOROCCO         1         1.30         66.23           MUCARRIQUE         1         1.30         66.23           NICER         1         1.30         66.23           NICARROUL         1         1.30         70.13           MANTANAR         1         1.30         71.43           PARISTAN         1         1.30         76.62           MANDA         1         1.30         76.62           SUNALIA         1         1.30         87.62           SUNALIA         1         1.30         87.61           THALLAND         1         1.30         87.71           TURKEY         1         1.3</td><td>KENYA</td><td>1 1</td><td>1 30</td><td>50.65</td></t<>	KUWAIT         1         1.30         51.95           LAO PEOPLE'S DEMOCRATIC PEVELIC         1         1.30         54.55           LEDRANNN         1         1.30         57.14           MALAYSIA         1         1.30         57.14           MALAYSIA         1         1.30         57.14           MALTNINA         1         1.30         57.14           MALTNINA         1         1.30         57.74           MALTNINA         1         1.30         62.34           MOROCCO         1         1.30         66.23           MUCARRIQUE         1         1.30         66.23           NICER         1         1.30         66.23           NICARROUL         1         1.30         70.13           MANTANAR         1         1.30         71.43           PARISTAN         1         1.30         76.62           MANDA         1         1.30         76.62           SUNALIA         1         1.30         87.62           SUNALIA         1         1.30         87.61           THALLAND         1         1.30         87.71           TURKEY         1         1.3	KENYA	1 1	1 30	50.65	
KYRCYZSTAN         1         1.30         53.25           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         54.85           LIENAN         1         1.30         55.84           MALAYSTA         1         1.30         55.84           MALAYSTA         1         1.30         59.74           MALAYSTA         1         1.30         59.74           MALAYSTA         1         1.30         66.23           MAURITANIA         1         1.30         66.23           MOROCCO         1         1.30         67.63           NICERER         1         1.30         77.33           MALAYSTAN         1         1.30         77.33           NICERERATION         1         1.30         77.33           QATAR         1         1.30         77.32           RUSSINA PEDERATION         1         1.30         79.22           SUMALTA         1         1.30         79.22           SUMALTA         1         1.30         79.22           SUMALTA         1         1.30         83.12           TAJIKISTAN         1         1.30         87.01           TURKMENISTAN	XYRGYZSTAN         1         1.30         53.25           LAO PEOPLE'S DEMOCRATIC REPUBLIC         1         1.30         53.25           LEBANN         1         1.30         55.84           MALAYSIA         1         1.30         55.84           MALAYSIA         1         1.30         55.44           MALAYSIA         1         1.30         66.23           MAURITANIA         1         1.30         66.23           MOZAMBIQUE         1         1.30         66.23           NICARAGUA         1         1.30         71.43           PAKISTAN         1         1.30         77.33           QATAR         1         1.30         77.32           QATAR         1         1.30         77.32           SOMALIA         1         1.30         77.32           SOMALIA         1         1.30         77.32           SOMALIA         1         1.30         75.32           RUSSIAN FORER         1         1.30         77.92           SOMALIA         1         1.30         86.31           URINER TAN         1         1.30         87.01           TURKEY I         1	KIMAT T	1 1	1 30	51 95	
LAO PEOPLE'S DEMOGRATIC REPUBLIC   1 1.30 54.65 LEBANON   1 1.30 55.84 LIFYA   1 1.30 57.14 MALAYSTA   1 1.30 55.74 MALDIVES   1 1.30 65.74 MALDIVES   1 1.30 66.23 MOROCCO   1 1.30 66.23 MOROCCO   1 1.30 66.23 NICGRAGUA   1 1.30 66.23 NICGRAGUA   1 1.30 66.23 NICGRAGUA   1 1.30 70.13 MANNAR   1 1.30 70.13 OMAN   1 1.30 77.92 SINGAPORE   1 1.30 76.32 RANDA   1 1.30 77.92 SINGAPORE   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.12 TAJIKISTAN   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKMENISTAN   1 1.30 97.01 TURKMENISTAN   1 1.30 97.01 TURKMENISTAN   1 1.30 97.02 ZIMBABWE   1 1.30 97.02	LAO PEOPLE'S DEMOCRATIC REPUBLIC   1 1.30 54.53 LEBANON   1 1.30 55.84 MALAYSIA   1 1.30 55.74 MALAYSIA   1 1.30 55.74 MALDIVES   1 1.30 55.74 MALDIVES   1 1.30 65.24 MALDIVES   1 1.30 66.23 MOROCCO   1 1.30 66.23 NICARAGUA   1 1.30 66.23 NICARAGUA   1 1.30 66.23 NICARAGUA   1 1.30 66.83 NICARAGUA   1 1.30 70.13 OMAN   1 1.30 71.43 PARISIAN   1 1.30 72.73 QATAR   1 1.30 76.62 SAUDI ARABIA   1 1.30 76.62 SAUDI ARABIA   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 88.51 UNISEN FEDERATION   1 1.30 88.52 SOUTH SUDAN   1 1.30 88.41 TAJIKISTAN   1 1.30 88.51 UNITED REPUBLIC OF TANZANIA   1 1.30 88.61 UNITED REPUBLIC OF TANZANIA   1 1.30 99.91 UNITED REPUBLIC OF TANZANIA   1 1.30 99.91 UNITED REPUBLIC OF   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.61 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.70 TYEN NAM   1 1.30 96.10 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.70 THEN REPUBLIC OF)   1 1.30 94.70	KVRCV7STAN	1 1	1 30	53 25	
LEGING Control and a second se	LIGO INCIDES & DEMONNICE NEEDEN I 1 1.30 55.04 LIEXA 1 1 1.30 55.04 MALAYSIA 1 1 1.30 55.74 MALAYSIA 1 1 1.30 55.74 MALAYSIA 1 1.30 55.74 MALAYSIA 1 1.30 55.74 MALAYSIA 1 1.30 55.74 MALAYSIA 1 1.30 62.34 MOZAMBIQUE 1 1 1.30 66.23 MOZAMBIQUE 1 1 1.30 66.23 MUCARAGUA 1 1.30 67.53 NICARAGUA 1 1.30 77.53 NICARAGUA 1 1.30 77.73 QATAR 1 1.30 77.43 PARISTAN 1 1.30 77.73 QATAR 1 1.30 77.92 SINGAPORE 1 1.30 77.92 SINGAPORE 1 1.30 81.62 TAJIKISTAN 1 1.30 81.62 TAJIKISTAN 1 1.30 88.42 TAJIKISTAN 1 1.30 98.61 UNITED ARAB EMIRATES 1 1.30 90.91 UNITED ARAB EMIRATES 1 1.30 99.61 UNITED ARAB EMIRATES 1 1.30 99.61 UNITED ARAB EMIRATES 1 1.30 99.61 UNITED ARAB EMIRATES 1 1.30 99.70 TURKENISTAN 1 1.30 98.70 TURKENISTAN 1 1.30 98.61 (MITED ARAB EMIRATES 1 1.30 99.610 UNITED ARAB EMIRATES 1 1.30 99.610 UNITED ARAB EMIRATES 1 1.30 99.740 ZAMBIA 1 1.30 98.70 TURKENISTAN 1 1.30 97.40 ZAMBIA 1 1.30 98.70 TURKENISTAN 1 1.30 97.40 ZAMBIA 1 1.30 97.40 ZAMBIA 1 1.30 98.70 TURKENISTAN 1 1.30 98.70 TURKENISTAN 1 1.30 97.40 ZAMBIA 1 1.30 97.40 TURKENISTAN 1 1.30 97.40 TURKENISTAN 1 1.30 97.40 TURKENISTAN 1 1.30 98.70 TURKENISTAN 1 1.30 97.40 TURKENISTAN 1 1.30 97.40 TURKENISTAN 1 1.30 97.40 TURKENISTAN 1 1.30 98.70 TURKENISTAN 1 1.30 98.70 T	LAO PEOPLE'S DEMOCRATIC REPUBLIC	1 1	1 30	54 55	
LIBNON   1 1.30 57.14 MALAYSTA   1 1.30 57.14 MALDIVES   1 1.30 59.74 MALDIVES   1 1.30 59.74 MADDIVES   1 1.30 62.34 MOROCCO   1 1.30 62.34 MOROCCO   1 1.30 66.33 MICARAGUA   1 1.30 66.33 NICARAGUA   1 1.30 66.33 NICARAGUA   1 1.30 70.13 MICARAGUA   1 1.30 71.43 PAKISTAN   1 1.30 71.43 PAKISTAN   1 1.30 72.73 QATAR   1 1.30 77.22 SINGAPORE   1 1.30 75.32 RWANDA   1 1.30 77.22 SINGAPORE   1 1.30 77.22 SINGAPORE   1 1.30 77.22 SINGAPORE   1 1.30 83.12 TAJIKISTAN   1 1.30 83.12 TURKMENISTAN   1 1.30 88.31 UGANDA   1 1.30 87.01 TURKMENISTAN   1 1.30 88.31 UGANDA   1 1.30 87.01 TURKMENISTAN   1 1.30 88.31 UGANDA   1 1.30 87.01 TURKMENISTAN   1 1.30 88.31 UGANDA   1 1.30 97.62 SOUTH SUDAN   1 1.30 88.31 UGANDA   1 1.30 88.31 UGANDA   1 1.30 88.31 UGANDA   1 1.30 97.01 TURKMENISTAN   1 1.30 88.31 UGANDA   1 1.30 97.01 TURKMENISTAN   1 1.30 97.00 ZIMBABKE   1 1.30 97.00 ZIMBAFKE   1 1.30 97.00 XIMBAFKE   1 1.30 97.00 XIMBAF	LLENKN   1 1.30 57.14 MALAYSIA   1 1.30 57.14 MALAYSIA   1 1.30 58.44 MALDIVES   1 1.30 59.74 MALI   1 1.30 62.34 MOROCCO   1 1.30 66.23 MURITANIA   1 1.30 66.23 NICARAGUA   1 1.30 66.23 NICARAGUA   1 1.30 66.23 NICARAGUA   1 1.30 70.13 NICER   1 1.30 70.13 NICER   1 1.30 71.43 PAKISTAN   1 1.30 71.43 PAKISTAN   1 1.30 77.73 QATAR   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 80.52 SOUTH SUDAN   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.62 TAJIKISTAN   1 1.30 88.31 UNITED ARAB EMIRATES   1 1.30 88.31 UNITED ARAB EMIRATES   1 1.30 88.31 UNITED ARAB EMIRATES   1 1.30 99.91 UNITED ARAB EMIRATES   1 1.30 99.191 UNITED REPUBLIC OF INIZANIA   1 1.30 98.51 UNITED ARAB EMIRATES   1 1.30 99.10 UNITED ARAB EMIRATES   1 1.30 99.44 TOGO   1 1.30 98.70 TURKMENISTAN   1 1.30 98.71 UNITED REPUBLIC OF INIZANIA   1 1.30 98.61 UNITED ARAB EMIRATES   1 1.30 99.70 ZIMBRABE   1 1.30 99.70 ZIMBRABE   1 1.30 99.70 ZIMBRABE   1 1.30 99.70 ZIMBRABE   1 1.30 99.70 TOTAI   77 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) FYL, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved 	I FRANON	I ⊥ 1	1 30	55 84	
MALAYSTA         1         1.30         58.44           MALDIVES         1         1.30         59.74           MALDIVES         1         1.30         61.04           MAURITANTA         1         1.30         62.34           MORCOCO         1         1.30         66.93           MICARAGUA         1         1.30         66.83           MICARAGUA         1         1.30         67.83           NICERRA         1         1.30         71.43           PARISTAN         1         1.30         71.43           QATAR         1         1.30         75.32           QATAR         1         1.30         76.62           SAUDI ARABIA         1         1.30         77.92           SINGAPORE         1         1.30         76.62           SAUDI ARABIA         1         1.30         77.92           SOUTH SUDAN         1         1.30         83.12           TAJIKISTAN         1         1.30         83.12           TAJIKISTAN         1         1.30         83.12           TURKMENISTAN         1         1.30         87.01           UNITED ARABE         1	MALAYSTA   1 1.30 58.44 MALAYSTA   1 1.30 59.74 MALAYSTA   1 1.30 65.74 MAURITANIA   1 1.30 66.03 MAURITANIA   1 1.30 66.23 MICARAGUA   1 1.30 66.23 MICARAGUA   1 1.30 66.23 MICARAGUA   1 1.30 66.23 MICARAGUA   1 1.30 77.33 MIGER   1 1.30 77.43 PAKISTAN   1 1.30 77.43 PAKISTAN   1 1.30 77.43 RUSSIAN FEDERATION   1 1.30 77.92 SINGAPORE   1 1.30 76.62 SAUDI ARABIA   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 88.12 TAJIKISTAN   1 1.30 88.12 TAJIKISTAN   1 1.30 88.21 UNITED ARAB EMIRATES   1 1.30 88.21 UNITED ARAB EMIRATES   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 99.51 UNITED REPUBLIC OF TANZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.61 VIENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.61 VIENT NAM   1 1.30 94.61 VIENT NAM   1 1.30 94.70 TURKEN   1 1.30 97.40 ZAMBIA   1 1.30 94.70 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.61 VIET DARAB EMIRATES   1 1.30 97.40 ZAMBIA   1 1.30 94.70 TURKEN   1 1.30 94.70 TURKEN   1 1.30 94.70 ZIMBABME   1 1.30 94.70 TURMEN   1 1.30 94.70 ZIMBABME   1 1.30 94.61 VIET NAM   1 1.30 94.70 TURMEN   1 1.30 94.70 ZIMBABME   1 1.30 97.40 ZAMBIA   1 1.30 94.70 TURMEN   1 1.30 94.70 ZIMBABME   1 1.30 94.70 ZIMBABME   1 1.30 94.70 TURATES   1 1.30 97.40 ZAMBIA   1 1.30 94.70 ZIMBABME   1 1.30 94.70 MICARAMEN   1 1.30 94.70 MICARAMEN   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZIMBABME   1 1.3	AVGT I	I I	1 30	57 14	
MALDIVES   1 1.30 59.74 MALDIVES   1 1.30 63.64 MAURITANIA   1 1.30 62.34 MOROCCO   1 1.30 63.64 MOZAMBIQUE   1 1.30 66.23 MOZAMBIQUE   1 1.30 66.23 MICARAGUA   1 1.30 66.23 NICER   1 1.30 67.53 NICER   1 1.30 70.13 OMAN   1 1.30 70.13 PAKISTAN   1 1.30 70.13 OMAN   1 1.30 71.43 PAKISTAN   1 1.30 77.92 SINGAPORE   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.62 TAJIKISTAN   1 1.30 83.12 TAJIKISTAN   1 1.30 85.71 TURKMENISTAN   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKEY   1 1.30 87.01 TURKEY   1 1.30 87.01 TURKEY   1 1.30 87.01 TURKEY   1 1.30 96.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED ARAB EMIRATES   1 1.30 97.40 ZIMBARE   1 1.40 ZIMBARE   1 1.40 ZIMARE   1	MALDIYES   1 1.30 55.74 MALDIYES   1 1.30 65.74 MAUNITANIA   1 1.30 62.34 MOROCCO   1 1.30 63.64 MOZAMBIQUE   1 1.30 66.23 MIGERIA   1 1.30 66.23 NIGERIA   1 1.30 66.23 NIGERIA   1 1.30 77.73 QATAR   1 1.30 77.43 RUSSIAN FEDERATION   1 1.30 77.62 SAUDI ARABIA   1 1.30 77.62 SOMALTA   1 1.30 77.92 SINGAPORE   1 1.30 85.71 TURKMENISTAN   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF IN   1 1.30 95.10 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 95.70 ZIMABABE   1 1.30 97.40 YEMEN   1 1.30 97.40 YEMEN   1 1.30 97.40 ZIMABABE   1 1.30 97.40 YEMEN	LIDIA MALAVSIA		1.30	50 11	
MALLI   1       1.30       61.04         MAURITANIA   1       1.30       62.34         MOROCCO   1       1.30       63.64         MOZAMBIQUE   1       1.30       66.23         MICARAGUA   1       1.30       66.33         NICARAGUA   1       1.30       67.53         NICARAGUA   1       1.30       77.33         QATAR   1       1.30       77.32         QATAR   1       1.30       75.32         RUSSIAN FEDERATION   1       1.30       77.92         SINGAPORE   1       1.30       77.92         SINGAPORE   1       1.30       79.22         SOULL ARABIA   1       1.30       86.52         SOULL ARABIA   1       1.30       86.52         SOULL ARABIA   1       1.30       86.51         UCANDA   1       1.30       86.71         TURKEY   1       1.30       87.01         TURKEY   1       1.30       87.01         UNITED ARAB EMIRATES   1       1.30       96.10         UNITED ARAB EMIRATES   1       1.30       92.21         UNITED ARAB EMIRATES   1       1.30       92.21         UNITED REPUBLIC OF TANZANIA   1       1.30       92.21         UZEEKISTA	MALLI         1         1.30         61.04           MAULITANIA         1         1.30         62.34           MOROCCO         1         1.30         66.24           MYANMAR         1         1.30         66.23           MICARAGUA         1         1.30         66.23           NICARAGUA         1         1.30         67.53           NICARAGUA         1         1.30         77.33           NICARAGUA         1         1.30         77.33           OMAN         1         1.30         77.33           QATAR         1         1.30         77.62           SAUDI ARABIA         1         1.30         77.52           SOMALIA         1         1.30         77.52           SOMALIA         1         1.30         79.22           SOMALIA         1         1.30         83.12           TAJIKISTAN         1         1.30         84.42           TOGO         1         1.30         85.71           URRMENSTAN         1         1.30         85.71           URRMENSTAN         1         1.30         85.71           URRMENSTAN         1         1.30	MALAISIA		1.30	50.44	
<pre>PALL   1 1.30 62.34 MAURITANIA   1 1.30 63.64 MCRAMBIQUE   1 1.30 64.94 MYANMAR   1 1.30 66.23 NICARAGUA   1 1.30 66.23 NICARAGUA   1 1.30 67.53 NICERIA   1 1.30 67.53 NICERIA   1 1.30 70.13 OWAN   1 1.30 71.43 PAKISTAN   1 1.30 72.73 QATAR   1 1.30 75.32 RWANDA   1 1.30 75.32 SAUDI RABAIA   1 1.30 75.32 SUDI RABAIA   1 1.30 75.22 SINGAPORE   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 83.12 TAJIKISTAN   1 1.30 83.12 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 85.71 TURKMENISTAN   1 1.30 85.71 TURKMENISTAN   1 1.30 85.61 UNITED ARAB EMIRATES   1 1.30 85.61 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 94.61 UNITED REPUBLIC OF IN 1 1.30 94.61 VIET NAM   1 1.30 94.61 VIET NAM   1 1.30 97.60 ZAMBIA   1 1.30 98.70 ZIMBABKE   1 1.30 97.60 ZAMBIA   1 1.30 98.70 ZIMBABKE   1 1.30 97.60 ZAMBIA   1 1.30 98.70 ZIMBABKE   1 1.30 98.70 ZIMBABKE</pre>	MAURITANIA           1         1.30         62.34           MOROCCO           1         1.30         63.64           MOZAMBIQUE           1         1.30         66.23           NICRARGUA           1         1.30         66.23           NICRARGUA           1         1.30         66.23           NICERIA           1         1.30         70.13           OMAN           1         1.30         77.33           QATAR           1         1.30         77.43           PAKISTAN           1         1.30         77.43           QATAR           1         1.30         77.62           SAUDI ARABIA           1         1.30         77.62           SAUDI ARABIA           1         1.30         77.92           SOUTI SUDAN           1         1.30         88.31           TAINISTAN           1         1.30         88.71           TGGO           1         1.30         87.11           TURKEY           1         1.30         88.31           UNITED ARAB EMIRATES           1         1.30         99.91           UNITED ARAB EMIRATES           1         1.30         96.10           U	MALT		1.30	59.74	
<pre>MAURITANIA   1 1.30 62.34 MOROCCO   1 1.30 64.94 MAURAMAR   1 1.30 67.53 NICARAGUA   1 1.30 67.53 NICER   1 1.30 67.53 NICER   1 1.30 71.43 PAKISTAN   1 1.30 71.43 PAKISTAN   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 77.92 SOMALTA   1 1.30 77.92 SOMALTA   1 1.30 80.52 SOUTH SUDAN   1 1.30 80.52 SOUTH SUDAN   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.12 THAILAND   1 1.30 83.12 TURKEY   1 1.30 87.01 TURKEY   1 1.30 99.61 UNITED ARAB EMTRATES   1 1.30 99.61 UNITED REPUBLIC OF INZANITA   1 3.0 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.61 (2TMBABWE   1 1.30 97.40 ZIMBABWE   1 1.30 97.40 ZIMBABW</pre>	MANARIANIA   1 1.30 62.34 MOROCO   1 1.30 66.43 MVANMAR   1 1.30 66.23 NICARAGUA   1 1.30 66.23 NICARAGUA   1 1.30 70.13 OMAN   1 1.30 77.13 OMAN   1 1.30 77.13 OMAN   1 1.30 77.13 OMAN   1 1.30 77.03 QATAR   1 1.30 77.02 RUSSIAN FEDERATION   1 1.30 77.92 SINGAPORE   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 83.12 TTAILKISTAN   1 1.30 86.31 UGANDA   1 1.30 86.31 UGANDA   1 1.30 86.31 UNITED ARABE MIRATES   1 1.30 99.61 UNITED ARABE MIRATES   1 1.30 99.61 UNITED ARABE MIRATES   1 1.30 99.61 UNITED ARABE MIRATES   1 1.30 99.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.61 YEEMSN   1 1.30 94.61 YEEMSN   1 1.30 94.70 ZIMBABWE   1 1.30 99.70 ZIMBABWE   1 1.30 100.00 	MALL		1.30	61.04	
MURCUCO   1 1.30 64.94 MVANMAR   1 1.30 66.23 NICARAGUA   1 1.30 66.23 NICARAGUA   1 1.30 66.83 NICER   1 1.30 70.13 OMAN   1 1.30 72.73 QATAR   1 1.30 74.03 PAKISTAN   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.32 RUADIARABIA   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 81.82 TAJIKISTAN   1 1.30 85.71 TURKEY   1 1.30 85.71 TURKEY   1 1.30 85.71 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED REPUBLIC OF TAMZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZIMEAWE   1 1.30 97.	MOROCCO   1 1.30 64.94 MYANMAR   1 1.30 66.23 NICARAGUA   1 1.30 66.23 NICARAGUA   1 1.30 66.83 NIGER   1 1.30 70.13 OMAN   1 1.30 71.43 PAKISTAN   1 1.30 71.43 PAKISTAN   1 1.30 74.03 QATAR   1 1.30 75.32 RUSSIAN FEDERATION   1 1.30 75.52 RWANDA   1 1.30 76.62 SAUDI ARABIA   1 1.30 76.62 SAUDI ARABIA   1 1.30 76.62 SAUDI ARABIA   1 1.30 80.52 SOMALA   1 1.30 80.52 SOUTH SUDAN   1 1.30 83.12 TAJIKISTAN   1 1.30 83.12 TAJIKISTAN   1 1.30 85.71 TURKEY   1 1.30 85.71 TURKEY   1 1.30 85.71 UNITED ARAB EMIRATES   1 1.30 85.71 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 99.61 UNITED REPUBLIC OF JANZANIA   1 1.30 99.70 ZIMBABWE   1 1.30 97.40 ZIMBABWE   1 1.3	MAURITANIA		1.30	62.34	
<pre>MOZAMEIQUE   1 1.30 64.94 MYANMAR   1 1.30 67.53 NICARAGUA   1 1.30 67.53 NIGERIA   1 1.30 70.13 OMAN   1 1.30 71.43 PAKISTAN   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 81.82 TAJIKISTAN   1 1.30 81.82 TAJIKISTAN   1 1.30 81.22 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKMENISTAN   1 1.30 88.31 UNITED ARAB EMIRATES   1 1.30 89.61 UNITED RAPUBLIC OF TANZANIA   1 1.30 98.31 UNITED REPUBLIC OF TANZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.70 ZIMEABME   1 1.30 98.70 ZIMEABME   1 1.30 100.00</pre>	MOZAMBIQUE         1         1.30         66.23           NICARAGUA         1         1.30         67.53           NIGER         1         1.30         67.53           NICARAGUA         1         1.30         67.53           NIGERI         1         1.30         67.53           NICERIA         1         1.30         71.43           OMAN         1         1.30         71.43           PAKISTAN         1         1.30         74.03           RUSSIAN FEDERATION         1         1.30         74.03           RUSSIAN FEDERATION         1         1.30         79.22           SAUDI ARABIA         1         1.30         66.52           SAUDI ARABIA         1         1.30         79.22           SOMALIA         1         1.30         83.12           TAJIKISTAN         1         1.30         84.42           TOCO         1         1.30         84.42           TOCO         1         1.30         89.61           UNITED ARAB EMIRATES         1         1.30         90.91           UNITED ARAB EMIRATES         1         1.30         93.51           UNITED REPUBLIC OF TAN	MOROCCO		1.30	63.64	
MYANNAR   1 1.30 66.23 NICERACUA   1 1.30 67.53 NICER   1 1.30 70.13 OMAN   1 1.30 70.13 OMAN   1 1.30 71.43 PARISTAN   1 1.30 72.73 QATAR   1 1.30 75.32 RUANDA   1 1.30 75.32 RUANDA   1 1.30 75.32 SAUDI ARABIA   1 1.30 76.62 SAUDI ARABIA   1 1.30 79.22 SOMALTA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 81.82 TAJIKISTAN   1 1.30 85.71 TURKMENISTAN   1 1.30 85.71 TURKMENISTAN   1 1.30 85.71 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED ARAB EMIRATES   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBENISTAN   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF   1 1.30 97.40 ZIMEAN   1 1.30 97.40 ZIMEANE   1	MYANMAR       1       1.30       66.23         NICERRAGDA         1       1.30       66.23         NIGERIA         1       1.30       70.13         OMAN         1       1.30       71.43         PAKISTAN         1       1.30       72.73         OATAR         1       1.30       72.73         QATAR         1       1.30       76.62         SAUDI ARABIA         1       1.30       75.32         RUSSIAN FEDERATION         1       1.30       76.62         SAUDI ARABIA         1       1.30       76.62         SUNGAPORE         1       1.30       79.22         SUNGAPORE         1       1.30       81.82         TAJIKISTAN         1       1.30       81.82         TAUKISTAN         1       1.30       87.01         TURKMENISTAN         1       1.30       87.01         UNITED ARAB EMIRATES         1       1.30       93.61         UNITED REPUBLIC OF TANZANIA         1       1.30       93.61         UNITED REPUBLIC OF TANZANIA         1       1.30       93.61         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       96.10 </td <td>MOZAMBIQUE</td> <td>1 1</td> <td>1.30</td> <td>64.94</td>	MOZAMBIQUE	1 1	1.30	64.94	
NICARAGUA   1 1.30 67.53 NIGER   1 1.30 68.83 NIGERTA   1 1.30 70.13 OMAN   1 1.30 71.43 PARISTAN   1 1.30 72.73 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 76.62 RWANDA   1 1.30 77.92 SINGAPORE   1 1.30 77.92 SOMALIA   1 1.30 80.52 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKEY   1 1.30 87.01 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED RABIEMIRATES   1 1.30 90.91 UNITED RABE MIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 0.30 97.40 CAMBIA   1 1.30 98.70 ZIMBABWE   1 0.30 97.40 ZAMBIA   1 0.30 97.40 ZIMBABWE   1 0.30 98.70 ZIMBABWE   1 0.30 97.40 ZIMBABWE   1	NICARAGUA   1 1.30 67.53 NIGER   1 1.30 67.68 NIGERIA   1 1.30 70.13 OMAN   1 1.30 71.43 PARISTAN   1 1.30 72.73 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 76.62 SAUJI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.62 SOUTH SUDAN   1 1.30 81.62 TAJIKISTAN   1 1.30 81.62 TAJIKISTAN   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKEY   1 1.30 87.01 ULANDA   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 97.40 CAMBIA   1 1.30 97.40 (Arap in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	MYANMAR	1	1.30	66.23	
NIGERIA   1 1.30 70.13 NIGERIA   1 1.30 71.43 PARISTAN   1 1.30 72.73 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 76.62 SAUDI ARBIA   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 TAJIKISTAN   1 1.30 84.42 TOGO   1 1.30 85.71 TURKEY   1 1.30 88.31 UNITED RABE EMIRATES   1 1.30 89.61 UNITED RABE EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIA REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 94.81 VIET NAM   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBAWE	NIGER   1 1.30 70.13 OMAN   1 1.30 71.43 PAKISTAN   1 1.30 71.43 PAKISTAN   1 1.30 74.03 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 77.92 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.62 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKMEY   1 1.30 88.31 UGANDA   1 1.30 89.61 UNITED REPUBLIC OF TANZANIA   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 96.10 YEMEN   1 1.30 97.40 ZIMBIA   1 1.30 98.70 ZIMBABKE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved 	NICARAGUA	1	1.30	67.53	
NIGERIA   1 1.30 70.13 OMAN   1 1.30 71.43 PAKISTAN   1 1.30 72.73 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 85.71 TURKEY   1 1.30 85.71 TURKEY   1 1.30 85.71 UNITED ARAB EMIRATES   1 1.30 89.61 UNITED RAPUBLIC OF   1 1.30 90.91 UNITED REPUBLIC OF   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 97.40 ZIMBABWE   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 TIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZIMBABWE   1 1.30 97.40 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 0.30 90.91 MODICONE ************************************	NIGERIA   1 1.30 70.13 OMAN   1 1.30 71.43 PAKISTAN   1 1.30 71.43 PAKISTAN   1 1.30 72.73 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 75.32 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 81.82 TAJIKISTAN   1 1.30 81.82 TAJIKISTAN   1 1.30 81.42 THAILAND   1 1.30 83.12 THAILAND   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKEY   1 1.30 87.01 UNITED ARAB EMIRATES   1 1.30 89.61 UNITED REPUBLIC OF TANZANIA   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 97.40 ZIMBER   1 1.30 97.40 ZIMBER   1 1.30 97.40 CAMBIA   1 1.30 98.70 TOTAL   77 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	NIGER	1	1.30	68.83	
OMAN           1         1.30         71.43           PAKISTAN           1         1.30         72.73           QATAR           1         1.30         74.03           RUSSIAN FEDERATION           1         1.30         76.62           SAUDI ARABIA           1         1.30         76.62           SAUDI ARABIA           1         1.30         77.92           SINGAPORE           1         1.30         77.92           SOMALIA           1         1.30         80.52           SOUTH SUDAN           1         1.30         80.52           SOUTH SUDAN           1         1.30         81.82           TAJIKISTAN           1         1.30         83.12           THAILAND           1         1.30         84.42           TOGO           1         1.30         88.31           UNITED REPUBLIC OF TAXANIA           1         1.30         90.91           UNITED REPUBLIC OF INTATENS           1         1.30         92.21           UNITED REPUBLIC OF INTATENS           1         1.30         96.10           VENEZUELA (BOLIVARIAN REPUBLIC OF)           1         1.30         96.10           YEMEN           1	OMAN   1 1.30 71.43 PAKISTAN   1 1.30 72.73 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 76.62 SAUDI ARABIA   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJJKISTAN   1 1.30 83.12 THAJIKISTAN   1 1.30 83.12 THALIAND   1 1.30 85.71 TURKEY   1 1.30 85.71 TURKEY   1 1.30 86.31 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TAMZANIA   1 1.30 94.81 UNITED REPUBLIC OF JAMZANIA   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.70 ZIMBABWE   1 1.30 96.70 ZIMBABWE   1 1.30 97.40 AMBIA   1.30 97.40 AMBIA   1.30 97.40 AMBIA   1.30 97.40 AMBIA   1.30 97.40 ZAMBIA   1.30 97	NIGERIA	1	1.30	70.13	
PAKISTAN   1 1.30 72.73 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 77.92 SINGAPORE   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 85.71 TURKEY   1 1.30 85.71 TURKEY   1 1.30 85.71 UUNITED ARAB EMIRATES   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 99.61 UNITED REPUBLIC OF   1 1.30 94.81 VIEN NAM   1 1.30 94.81 VIEN NAM   1 1.30 96.10 YEMEN   1 1.30 96.10 YEMEN   1 1.30 96.70 ZIMBABWE   1 1.30 97.40 ZAMBIA   1.30 96.70 ZIMBABWE   1 1.30 97.40 ZAMBIA   1.30 96.70 ZIMBABWE   1 1.30 97.40 ZAMBIA   1.30 97.40 Z	PARISTAN   1 1.30 72.73 QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 76.62 SAUDI ARABIA   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 77.92 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 85.71 TURKEY   1 1.30 85.71 TURKEY   1 1.30 87.01 UNITED ARAB EMIRATES   1 1.30 88.31 UNITED REPUBLIC OF TANZANIA   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 99.61 UNITED REPUBLIC OF TANZANIA   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 94.81 VIET NAM   1 1.30 98.70 ZIMPABWE   1 1.30 98.70 ZIMPABWE   1 1.30 98.70 CIMPARAB CALL OF INCLUSION   1 1.30 94.81 VIET NAM   1 1.30 94.81 VIET NAM   1 1.30 94.81 VIET NAM   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMPABWE   1 1.30 100.00 	OMAN	1	1.30	71.43	
QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 75.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 80.52 SOMALIA   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 83.12 THAILAND   1 1.30 85.71 TURKEY   1 1.30 85.71 UNITED ARAB EMIRATES   1 1.30 88.31 UUNITED REPUBLIC OF TANZANIA   1 1.30 89.61 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZERKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 96.70 ZIMBABWE   1 1.30 96.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1	QATAR   1 1.30 74.03 RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKEY   1 1.30 85.71 TURKEY   1 1.30 88.31 UGANDA   1 1.30 88.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 94.81 VIET NAM   1 1.30 94.81 OVER   1 1.30 94.81 VIET NAM   1 1.30 94.610 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	PAKISTAN	1	1.30	72.73	
RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 77.92 SINGAPORE   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TAJIKISTAN   1 1.30 87.01 TURKMENISTAN   1 1.30 87.01 TURKMENISTAN   1 1.30 88.31 UNITED ARAB EMIRATES   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED CF TANZANIA   1 1.30 92.21 UZEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 96.70 ZIMBABWE   1 1.30 96.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	RUSSIAN FEDERATION   1 1.30 75.32 RWANDA   1 1.30 76.62 SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 77.92 SOMALIA   1 1.30 80.52 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 83.12 TAJIKISTAN   1 1.30 83.12 TAJIKISTAN   1 1.30 84.42 TOGO   1 1.30 87.01 TURKEY   1 1.30 87.01 UGANDA   1 1.30 88.31 UUNITED ARAB EMIRATES   1 1.30 90.91 UNITED ARAB EMIRATES   1 1.30 92.21 UZEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 94.81 VIET NAM   1 1.30 98.70 ZIMEABWE   1 1.30 98.70 ZIMEABWE   1 1.30 98.70 ZIMEABWE   1 1.30 98.70 ZIMEABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ******** QUOTAS: *****************	QATAR	1	1.30	74.03	
RWANDA         1       1.30       76.62         SAUDI ARABIA         1       1.30       77.92         SINGAPORE         1       1.30       79.22         SOMALIA         1       1.30       80.52         SOUTH SUDAN         1       1.30       80.52         SOUTH SUDAN         1       1.30       81.82         TAJIKISTAN         1       1.30       85.71         THAILAND         1       1.30       85.71         TURKEY         1       1.30       86.31         UGANDA         1       1.30       86.31         UNITED ARAB EMIRATES         1       1.30       96.61         UNITED REPUBLIC OF TANZANIA         1       1.30       92.21         UZEEKISTAN         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       94.81         VIENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       96.10         YEMEN         1       1.30       96.10         YEMEN         1       1.30       96.10         YEMEN         1       1.30       96.10         YEMEN         1       1.30       96.10 <td>RWANDA         1       1.30       76.62         SAUDI ARABIA         1       1.30       77.92         SOMALIA         1       1.30       79.22         SOMALIA         1       1.30       80.52         SOUTH SUDAN         1       1.30       80.52         SOUTH SUDAN         1       1.30       81.82         TAJIKISTAN         1       1.30       84.42         TOGO         1       1.30       85.71         TURKEY         1       1.30       86.31         UNITED ARAB EMIRATES         1       1.30       89.61         UNITED REPUBLIC OF TANZANIA         1       1.30       90.91         UNITED REPUBLIC OF TANZANIA         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       94.81         VIET NAM         1       1.30       96.10         YEMEN         1       1.30       97.40         ZAMBIA         1       1.30       98.70         ZIMBABWE         1       1.30       98.70         ZIMBABWE         1       1.30       98.70         ZIMBABWE         1       1.30       100.00</td> <td>RUSSIAN FEDERATION</td> <td>  1</td> <td>1.30</td> <td>75.32</td>	RWANDA         1       1.30       76.62         SAUDI ARABIA         1       1.30       77.92         SOMALIA         1       1.30       79.22         SOMALIA         1       1.30       80.52         SOUTH SUDAN         1       1.30       80.52         SOUTH SUDAN         1       1.30       81.82         TAJIKISTAN         1       1.30       84.42         TOGO         1       1.30       85.71         TURKEY         1       1.30       86.31         UNITED ARAB EMIRATES         1       1.30       89.61         UNITED REPUBLIC OF TANZANIA         1       1.30       90.91         UNITED REPUBLIC OF TANZANIA         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       94.81         VIET NAM         1       1.30       96.10         YEMEN         1       1.30       97.40         ZAMBIA         1       1.30       98.70         ZIMBABWE         1       1.30       98.70         ZIMBABWE         1       1.30       98.70         ZIMBABWE         1       1.30       100.00	RUSSIAN FEDERATION	1	1.30	75.32	
SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKEY   1 1.30 86.31 UGANDA   1 1.30 86.31 UGANDA   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 TEMBA   1 1.30 96.10 TEMBA   1 1.30 96.70 ZIMBABWE   1 1.30 96.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	SAUDI ARABIA   1 1.30 77.92 SINGAPORE   1 1.30 77.92 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 85.71 TURKEY   1 1.30 85.71 TURKEY   1 1.30 86.31 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 Saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved 	RWANDA	1	1.30	76.62	
SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKEY   1 1.30 86.31 UNITED ARAB EMIRATES   1 1.30 89.61 UNITED RAPAB EMIRATES   1 1.30 99.61 UNITED RAPAB EMIRATES   1 1.30 92.21 UZEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 96.10 YEMEN   1 1.30 96.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 98.70 IMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 91.40 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	SINGAPORE   1 1.30 79.22 SOMALIA   1 1.30 80.52 SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 83.12 THAILAND   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKEY   1 1.30 88.31 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	SAUDI ARABIA	1	1.30	77.92	
SOMALIA         1       1.30       80.52         SOUTH SUDAN         1       1.30       81.82         TAJIKISTAN         1       1.30       83.12         THAILAND         1       1.30       83.12         THAILAND         1       1.30       83.12         THAILAND         1       1.30       85.71         TURKEY         1       1.30       85.71         TURKEY         1       1.30       86.31         UGANDA         1       1.30       86.31         UARNER I       1       1.30       89.61         UNITED ARAB EMIRATES         1       1.30       92.21         UZEKISTAN         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       96.10         YEMEN         1       1.30       97.40         ZAMEIA         1       1.30       98.70         ZIMBABWE         1       1.30       100.00         Total         77       100.00         .         .         .         .          .	SOMALIA         1       1.30       80.52         SOUTH SUDAN         1       1.30       81.82         TAJIKISTAN         1       1.30       83.12         THAILAND         1       1.30       84.42         TOGO         1       1.30       85.71         TURKEY         1       1.30       85.71         TURKEY         1       1.30       85.71         TURKEY         1       1.30       86.31         UGANDA         1       1.30       88.31         UNITED ARAB EMIRATES         1       1.30       92.21         UNITED REPUBLIC OF TANZANIA         1       1.30       92.21         UZEEKISTAN         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       96.10         YEMEN         1       1.30       96.70         ZAMBIA         1       1.30       96.70         ZIMBABWE         1       1.30       96.70         ZIMBABWE         1       1.30       96.70         ZIMBABWE         1       1.30       100.00         Total         77       100.00         Saveold	SINGAPORE	1	1.30	79.22	
SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TGGO   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKEY   1 1.30 89.61 UGANDA   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 96.10 YEMEN   1 1.30 96.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	SOUTH SUDAN   1 1.30 81.82 TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 83.12 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKY   1 1.30 87.01 TURKMENISTAN   1 1.30 88.31 UGANDA   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZEEKISTAN   1 1.30 92.21 UZEKISTAN   1 1.30 94.81 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	SOMALIA	1	1.30	80.52	
TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKEY   1 1.30 87.01 TURKMENISTAN   1 1.30 88.31 UGANDA   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZIMBABWE   1 1.30 97.40 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ********* QUOTAS: ************************************	TAJIKISTAN   1 1.30 83.12 THAILAND   1 1.30 84.42 TOGO   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKEY   1 1.30 88.31 UGANDA   1 1.30 88.31 UGANDA   1 1.30 99.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 96.70 ZIMBABWE   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************	SOUTH SUDAN	1	1.30	81.82	
THAILAND         1       1.30       84.42         TOGO         1       1.30       85.71         TURKEY         1       1.30       87.01         TURKMENISTAN         1       1.30       88.31         UGANDA         1       1.30       89.61         UNITED ARAB EMIRATES         1       1.30       90.91         UNITED REPUBLIC OF TANZANIA         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       94.81         VIET NAM         1       1.30       96.10         YEMEN         1       1.30       100.00         Cambra         1       1.30       100.00         .       Grow in 114/190       1       1.30       100.00         .       saveold final1.dta, replace       (saving in Stata 13 format)       (FYI, saveold has options version(12) and version(11) that write files in older	THAILAND         1       1.30       84.42         TOGO         1       1.30       85.71         TURKEY         1       1.30       85.71         TURKMENISTAN         1       1.30       88.31         UGANDA         1       1.30       89.61         UNITED ARAB EMIRATES         1       1.30       90.91         UNITED REPUBLIC OF TANZANIA         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       94.81         VIET NAM         1       1.30       96.10         YEMEN         1       1.30       100.00         OROP in 114/190       (77       100.00         .       saveold finall.dta, replace       (saving in Stata 13 format)         (FYI, saveold has options version(12) and version(11) that write files in older       Stata formats)         file finall.dta saved	TAJIKISTAN	1	1.30	83.12	
TOGO   1 1.30 85.71 TURKEY   1 1.30 87.01 TURKMENISTAN   1 1.30 88.31 UGANDA   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TAMZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 	TOGO         1       1.30       85.71         TURKEY         1       1.30       87.01         TURKMENISTAN         1       1.30       88.31         UGANDA         1       1.30       89.61         UNITED ARAB EMIRATES         1       1.30       90.91         UNITED REPUBLIC OF TANZANIA         1       1.30       92.21         UZBEKISTAN         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       94.81         VIET NAM         1       1.30       96.10         YEMEN         1       1.30       100.00         Code juit 114/190       1       1.30       100.00         .       saveold finall.dta, replace       (saving in Stata 13 format)       (FYI, saveold has options version(12) and version(11) that write files in older         Stat	THAILAND	1	1.30	84.42	
TURKEY         1       1.30       87.01         TURKMENISTAN         1       1.30       88.31         UGANDA         1       1.30       89.61         UNITED ARAB EMIRATES         1       1.30       90.91         UNITED REPUBLIC OF TANZANIA         1       1.30       92.21         UZBEKISTAN         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       94.81         VIET NAM         1       1.30       96.10         YEMEN         1       1.30       96.10         YEMEN         1       1.30       97.40         ZAMBIA         1       1.30       98.70         ZIMBABWE         1       1.30       100.00         Total         77       100.00         .         .         .         .         .         .         .         .         .         .         .         .	TURKEY         1       1.30       87.01         TURKMENISTAN         1       1.30       88.31         UGANDA         1       1.30       89.61         UNITED ARAB EMIRATES         1       1.30       90.91         UNITED REPUBLIC OF TANZANIA         1       1.30       92.21         UZBEKISTAN         1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)         1       1.30       94.81         VIET NAM         1       1.30       96.10         YEMEN         1       1.30       96.10         YEMEN         1       1.30       97.40         ZAMBIA         1       1.30       98.70         ZIMBABWE         1       1.30       100.00	TOGO	1	1.30	85.71	
TURKMENISTAN       1       1.30       88.31         UGANDA       1       1.30       89.61         UNITED ARAB EMIRATES       1       1.30       90.91         UNITED REPUBLIC OF TANZANIA       1       1.30       92.21         UZBEKISTAN       1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)       1       1.30       94.81         VIET NAM       1       1.30       96.10         YEMEN       1       1.30       98.70         ZAMBIA       1       1.30       100.00         Total       77         100.00       Cotal         Total       77         Total       77         Total       77         Total       77         Total       77         Saveold finall.dta, replace         (saving in Stata 13 format)         FYI	TURKMENISTAN       1       1.30       88.31         UGANDA       1       1.30       89.61         UNITED ARAB EMTRATES       1       1.30       90.91         UNITED REPUBLIC OF TANZANIA       1       1.30       92.21         UZBEKISTAN       1       1.30       93.51         VENEZUELA (BOLIVARIAN REPUBLIC OF)       1       1.30       94.81         VIET NAM       1       1.30       96.10         YEMEN       1       1.30       98.70         ZIMBABWE       1       1.30       100.00         .       Total       77       100.00         .       . saveold finall.dta, replace       (saving in Stata 13 format)         (FYI, saveold has options version(12) and version(11) that write files in older       Stata formats)         file finall.dta saved       . ************************************	TURKEY	1	1.30	87.01	
UGANDA           1         1.30         89.61           UNITED ARAB EMIRATES           1         1.30         90.91           UNITED REPUBLIC OF TANZANIA           1         1.30         92.21           UZBEKISTAN           1         1.30         93.51           VENEZUELA (BOLIVARIAN REPUBLIC OF)           1         1.30         94.81           VENEZUELA (BOLIVARIAN REPUBLIC OF)           1         1.30         96.10           YEMEN           1         1.30         97.40           ZAMBIA           1         1.30         98.70           ZIMBABWE           1         1.30         100.00	UGANDA   1 1.30 89.61 UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 96.10 YEMEN   1 1.30 96.10 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	TURKMENISTAN	1	1.30	88.31	
UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 	UNITED ARAB EMIRATES   1 1.30 90.91 UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 	UGANDA	1	1.30	89.61	
UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 96.10 ZAMBIA   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 	UNITED REPUBLIC OF TANZANIA   1 1.30 92.21 UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 	UNITED ARAB EMIRATES	1	1.30	90.91	
UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 	UZBEKISTAN   1 1.30 93.51 VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	UNITED REPUBLIC OF TANZANIA	1	1.30	92.21	
<pre>VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 </pre>	<pre>VENEZUELA (BOLIVARIAN REPUBLIC OF)   1 1.30 94.81 VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************</pre>	UZBEKISTAN	1	1.30	93.51	
<pre>VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************</pre>	<pre>VIET NAM   1 1.30 96.10 YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************</pre>	VENEZUELA (BOLIVARIAN REPUBLIC OF)	1	1.30	94.81	
YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	YEMEN   1 1.30 97.40 ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	VIET NAM	1	1.30	96.10	
ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	ZAMBIA   1 1.30 98.70 ZIMBABWE   1 1.30 100.00 Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	YEMEN	1 1	1.30	97.40	
ZIMBABWE   1 1.30 100.00 Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	ZIMBABWE   1 1.30 100.00 Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	ZAMBIA	1	1.30	98.70	
Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	Z IMBABWE	1	1.30	100.00	
Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************	Total   77 100.00 . drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************		+			
<pre>. drop in 114/190 (77 observations deleted) . saveold finall.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file finall.dta saved . ************************************</pre>	<pre>. drop in 114/190 (77 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************</pre>	Total	77	100.00		
<pre>(saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************</pre>	<pre>(saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . ************************************</pre>	. drop in 114/190 (77 observations deleted) . saveold final1.dta, replace				
. ************************************	. ******************* QUOTAS: ************************************	<pre>(saving in Stata 13 format) (FYI, saveold has options version(12) and Stata formats) file final1.dta saved</pre>	d version(11)	that write	files in older	
	clear	. ************************************	* * * * * *			
. clear	· CICAL	. clear				

```
. insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\quota+.csv"
(6 vars, 84 obs)
. browse
. rename v1 country
. drop v2
. rename v3 volpolparty
. rename v4 quotaype
. rename v5 constitutional
. rename v6 electoral
. drop in 1
(1 observation deleted)
. replace country=upper(country)
(83 real changes made)
. sort country
. saveold quotas.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file quotas.dta saved
. clear
. use final1.dta
. rename merge merge2
. merge m:m country using quotas.dta
      Result
                                                     # of obs.
      -----
      not matched
                                                               120
            from master
                                                                 75 ( merge==1)
                                                                45 (merge==2)
            from using
      matched
                                                                38 ( merge==3)
      _____
. tab country if merge==1
                                              country | Freq. Percent Cum.

      ANDORRA |
      1
      1.33
      1.33

      ANTIGUA AND BARBUDA |
      1
      1.33
      2.67

      AUSTRALIA |
      1
      1.33
      4.00

      AUSTRIA |
      1
      1.33
      5.33

      BAHAMAS |
      1
      1.33
      6.67

      BARBADOS |
      1
      1.33
      9.33

      BHUTAN |
      1
      1.33
      10.67

      BOLIVIA (PLURINATIONAL STATE OF) |
      1
      1.33
      13.33

      BULGARIA |
      1
      1.33
      14.67

      CABO VERDE |
      1
      1.33
      16.00

      CANADA |
      1
      1.33
      17.33

      CYPRUS |
      1
      1.33
      20.00

_____
```

DENMARK	1	1.33	21.33
DOMINICA	1	1.33	22.67
ESTONIA	1	1.33	24.00
FIJI		1.33	25.33
FINLAND		1.33	26.67
GEORGIA		1.33	28.00
GERMANY		1.33	29.33
GHANA		1.33	30.67
GRENADA CUATEMALA		1.33	32.00
GUALEMALA		1.55	20.55
HUNGARI		1 33	36.00
TUTA	I ⊥ 1	1 33	30.00
TSRAEI.	1 1	1 33	38 67
	1 1	1 33	40 00
JA PAN	1 1	1.33	41.33
KIRIBATI	1 1	1.33	42.67
LATVIA	1	1.33	44.00
LIBERIA	1	1.33	45.33
LIECHTENSTEIN	1	1.33	46.67
LITHUANIA	. 1	1.33	48.00
LUXEMBOURG	1	1.33	49.33
MADAGASCAR	1	1.33	50.67
MALAWI	1	1.33	52.00
MALTA	1	1.33	53.33
MARSHALL ISLANDS	1	1.33	54.67
MAURITIUS	1	1.33	56.00
MICRONESIA (FEDERATED STATES OF)	1	1.33	57.33
MONACO	1	1.33	58.67
NAMIBIA	1	1.33	60.00
NAURU	1	1.33	61.33
NETHERLANDS	1	1.33	62.67
NEW ZEALAND	1	1.33	64.00
NORTH MACEDONIA	1	1.33	65.33
NORWAY	1	1.33	66.67
PALAU	1	1.33	68.00
PAPUA NEW GUINEA	1	1.33	69.33
PHILIPPINES	1	1.33	70.67
REPUBLIC OF KOREA		1.33	/2.00
REPUBLIC OF MOLDOVA		1.33	/3.33
ROMANIA		1.33	/4.6/
SAINT KITTS AND NEVIS		1.33	76.00
SAINT LUCIA		1.33	11.33
SAINI VINCENI AND INE GRENADINES	⊥   1	1.33	/0.0/
SAU IOME AND FRINCIFE	⊥   1	1.33	00.00
STERRA LEONE	I ⊥ I 1	1 33	82 67
STUARLY STRUCK PROVE	I 1	1 33	84 00
SOUTH AFRICA	1 1	1 33	85 33
SBT LANKA	I 1	1 33	86 67
SURINAME	1 1	1 33	88 00
SWEDEN	1 1	1.33	89.33
SWITZERLAND	1	1.33	90.67
TONGA	1	1.33	92.00
TRINIDAD AND TOBAGO	1	1.33	93.33
TUVALU	1	1.33	94.67
UKRAINE	1	1.33	96.00
UNITED KINGDOM	1	1.33	97.33
UNITED STATES OF AMERICA	1	1.33	98.67
VANUATU	1	1.33	100.00
	+		
Total	1 75	T00.00	

. . clear

. use quotas.dta
```
. replace country = "BOLIVIA (PLURINATIONAL STATE OF)" in 9
(1 real change made)
. replace country = "CABO VERDE" in 14
(1 real change made)
. replace country = "REPUBLIC OF KOREA" in 37
(1 real change made)
. replace country = "NORTH MACEDONIA" in 52
(1 real change made)
. replace country = "REPUBLIC OF MOLDOVA" in 45
(1 real change made)
. sort country
. saveold quotas.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file quotas.dta saved
. clear
. use final1.dta
. rename _merge merge2
. merge m:m country using quotas.dta
   Result
                               # of obs.
   _____
   not matched
                                    110
      from master
                                     70
                                         ( merge==1)
                                     40
                                         (_merge==2)
      from using
                                     43 ( merge==3)
   matched
   _____
. drop in 114/153
(40 observations deleted)
. saveold final1.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file final1.dta saved
. *** now have the quota information, just need to make it easier to run the
analysis:
. tab quotaype
                  quotaype | Freq. Percent Cum.
_____+

        Legislated Candidate Quotas |
        40
        93.02
        93.02

        Reserved seats |
        3
        6.98
        100.00

_____
                                   ____
                                          _____
                     Total | 43 100.00
. tab quotaype, nol
                  quotaype | Freq.
                                         Percent
                                                       Cum.
Legislated Candidate Quotas |
                                   40
                                           93.02
                                                      93.02
```

Reserved	seats	3	6.98	100.00
	Total	43	100.00	

. encode quotaype, gen(quotatype)

. tab quotatype

quotatype	Freq.	Percent	Cum.
Legislated Candidate Quotas   Reserved seats	40 3	93.02 6.98	93.02 100.00
Total	43	100.00	

. tab quotatype, nol

Cum.	Percent	Freq.	quotatype
93.02 100.00	93.02 6.98	40   3	1 2
	100.00	43	Total

. recode quotatype .=0
(quotatype: 70 changes made)

. tab quotatype

quotatype	Freq.	Percent	Cum.
0	70	61.95	61.95
Legislated Candidate Quotas	40	35.40	97.35
Reserved seats	3	2.65	100.00
Total	113	100.00	

. tab quotatype, nol

Cum.	Percent	Freq.	quotatype
61.95 97.35 100.00	61.95 35.40 2.65	70 40 3	0   1   2
	100.00	113	Total

. \*\*\*\* now have a quota variable with only quotas implemented by electoral law or constitutional law, a categorical variable that deliniates between the two types I am concerned with (not voluntary party quotas)

. saveold final1.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file final1.dta saved

. . \*\*\* Date of most recent election, of which the percentage of women is taken from (IPU):

. clear

. insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\recentelec.csv" (4 vars, 193 obs)

. rename v1 country

```
. rename v2 election
. rename v3 electionyr
. rename v4 nextelec
. drop in 1
(1 observation deleted)
. replace country=upper(country)
(192 real changes made)
. sort country
. saveold recentelec.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file recentelec.dta saved
. clear
. use final1.dta
. rename _merge merge4
. merge m:m country using recentelec.dta
   Result
                                # of obs.
   _____
   not matched
                                     79
       from master
                                      0 ( merge==1)
                                     79 (merge==2)
      from using
   matched
                                    113 ( merge==3)
   -----
. drop in 114/192
(79 observations deleted)
. rename _merge merge5
. saveold final1.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file final1.dta saved
. clear
. insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\Development.csv"
(9 vars, 250 obs)
. browse
. rename v1 country
. rename v2 region
. drop v3 v4
. rename v5 LDC
. rename v6 LLDC
```

. rename v7 SIDS . rename v8 Develop . drop in 1 (1 observation deleted) . replace country=upper(country) (249 real changes made) . sort country . saveold development.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file development.dta saved . clear . use final1.dta . merge m:m country using development.dta # of obs. Result \_\_\_\_\_ not matched 140 from master 2 ( merge==1) 138 (\_merge==2) from using matched 111 ( merge==3) \_\_\_\_\_ . tab country if merge==1 country | Freq. Percent Cum. 
 CZECH REPUBLIC |
 1
 50.00
 50.00

 UNITED KINGDOM |
 1
 50.00
 100.00
 Total | 2 100.00 . clear . use development.dta . browse . replace country = "CZECH REPUBLIC" in 60 (1 real change made) . replace country = "UNITED KINGDOM" in 234 (1 real change made) . sort country . saveold development.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file development.dta saved

. clear

. use final1.dta . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . merge m:m country using development.dta Result # of obs. \_\_\_\_\_ not matched 136 from master 0 ( merge==1) 136 (\_merge==2) from using matched 113 ( merge==3) \_\_\_\_\_ . \*\*\* the 113 countries we are modelling are now matched so I will delete the other regions/countries as they do not fit into what we want to model. . drop in 114/249 (136 observations deleted) . rename merge merge6 . drop v9 . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . \*\*\* now need to clean up this bit of the dataset and destring the variables imported. First, create a dichotomous variable for least developed 1, other 0: . tab LDC LDC | Freq. Percent Cum. x | 15 100.00 100.00 Total | 15 100.00 . tab LDC, nol LDC | Freq. Percent Cum. -----+ 15 100.00 100.00 x | 15 Total | 100.00 . encode LDC, gen(leastdev) . tab leastdev leastdev | Freq. Percent Cum. x | 15 100.00 100.00 Total | 15 100.00 . tab leastdev, nol

+ 1	15	100.00	100.00		
 Total	15	100.00			
. recode leastde (leastdev: 98 ch	ev .=0 nanges made	)			
. tab leastdev					
leastdev	Freq.	Percent	Cum.		
0   x	98 15	86.73 13.27	86.73 100.00		
Total	113	100.00			
*** Next, land	dlocked deve	eloping:			
. tab LLDC					
		LLDC	Freq.	Percent	Cum.
		х	11	100.00	100.00
		Total	11	100.00	
tab LLDC, nol					
		LLDC	Freq.	Percent	Cum.
		 X	+	100.00	100.00
		x Total	+   11 +   11	100.00	100.00
. encode LLDC, q	gen (landloc)	x Total kdev)	+   11 +   11	100.00	100.00
. encode LLDC, q	gen (landloc)	X Total kdev)	+   11 +   11	100.00	100.00
. encode LLDC, q . tab landlockde landlockdev	gen(landloc) ev Freq.	x Total kdev) Percent	+	100.00	100.00
encode LLDC, o tab landlockde .andlockdev   	gen(landloc) ev Freq. 11	x Total kdev) Percent 100.00	+	100.00	100.00
. encode LLDC, q . tab landlockde landlockdev   	gen (landloc) ev Freq. 11 11	x Total kdev) Percent 100.00 100.00	+	100.00	100.00
. encode LLDC, q . tab landlockde landlockdev   	gen (landloc) ev Freq. 11 11 ev, nol	x Total kdev) Percent 100.00 100.00	+	100.00	100.00
. encode LLDC, q . tab landlockdev   	gen (landloc) ev Freq. 11 11 ev, nol Freq.	x Total kdev) Percent 100.00 100.00 Percent	+   11 +   11   11  100.00 	100.00	100.00
. encode LLDC, q . tab landlockdev   . x   . Total   . tab landlockdev   . 1	gen (landloc) ev Freq. 11 11 ev, nol Freq. 11	x Total kdev) Percent 100.00 Percent 100.00	+	100.00	100.00
. encode LLDC, q . tab landlockdev   	gen (landloc) ev Freq. 11 11 ev, nol Freq. 11 11	x Total kdev) Percent 100.00 100.00 Percent 100.00	+	100.00	100.00
<pre>. encode LLDC, q . tab landlockdev  </pre>	gen (landloc) ev Freq. 11 11 ev, nol Freq. 11 11 ckdev .=0 02 changes n	x Total kdev) Percent 100.00 Percent 100.00 100.00	+	100.00	100.00
<pre>. encode LLDC, q . tab landlockdev   . tab landlockdev   . tab landlockdev   . tab landlockdev   . 1   . Total   . recode landlockdev: 10 . tab landlockdev: 10</pre>	gen (landloc) ev Freq. 11 11 ev, nol Freq. 11 11 ckdev .=0 02 changes n	x Total kdev) Percent 100.00 Percent 100.00 100.00	+	100.00	100.00
<pre>. encode LLDC, q . tab landlockdev  </pre>	gen (landloc) ev Freq. 11 11 ev, nol Freq. 11 11 ckdev .=0 02 changes n ev Freq.	x Total kdev) Percent 100.00 100.00 Percent 100.00 nade) Percent	+	100.00	100.00
<pre>. encode LLDC, q . tab landlockdev  </pre>	gen (landloc) ev Freq. 11 11 ev, nol Freq. 11 11 ckdev .=0 02 changes n ev Freq. 102 11	x Total kdev) Percent 100.00 100.00 Percent 100.00 100.00 nade) Percent 90.27 9.73	Lum. Cum. 100.00 Cum. 100.00 Cum. 90.27 100.00	100.00	100.00

. \*\*\* Next, small island developing:

• . tab SIDS

		SIDS	Freq	. Perc	cent	Cum.
		X	3	1 100	0.00 10	0.00
		Total	3	1 100	0.00	
. tab SIDS, r	nol					
		SIDS	Freq	. Perc	cent	Cum.
		x	3	1 100	0.00 10	0.00
		Total	3	1 100	D.00	
. encode SIDS	G, gen(islanddev)					
. tab islando	lev					
islanddev	Freq. Per	cent	Cum.			
x	31 10	0.00	100.00			
Total	31 10	0.00				
. tab islando	dev, nol					
islanddev	Freq. Per	cent	Cum.			
1	31 10	0.00	100.00			
Total	31 10	0.00				
. recode isla	anddev .=0					
tab jalanda	low					
islandday	Freq Per	cent	Cum			
+	82 7					
x	31 2	7.43	100.00			
Total	113 10	0.00				
•	od/dovoloning.					
. develop						
. cab beverop	Develop	I	Freq	Percent	Cum	
	Developed	-+	47	41 59	41 59	
	Developing	·   -+	66	58.41	100.00	
	Total	İ	113	100.00		
. tab Develop						
-	o, nol					
	o, nol Develop		Freq.	Percent	Cum.	
	o, nol Develop Developed Developing	 _+	Freq. 47 66	Percent 41.59 58.41	Cum. 41.59	

. encode Develop, gen(developed)

. tab developed

developed	Freq.	Percent	Cum.
Developed   Developing	47 66	41.59 58.41	41.59 100.00
Total	113	100.00	

. tab developed, nol

Cum.	Percent	Freq.	developed
41.59 100.00	41.59 58.41	47 66	1   2
	100.00	113	Total

. recode developed 2=0
(developed: 66 changes made)

. tab developed

developed	Freq.	Percent	Cum.
0 Developed	66 67 47	58.41 41.59	58.41 100.00
Total	113	100.00	

. saveold final1.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file final1.dta saved

. \*\*\* Create an ordinal variable for development level by collapsing the developed dichotomous and least developed dichotomous variables into one another. This is shown here and now we have a development variable which shows much more about the difference in development and the effect this has on the percentage of women:

. gen devscale=developed

. tab devscale

devscale	Freq.	Percent	Cum.
0 1	66   47	58.41 41.59	58.41 100.00
Total	113	100.00	
. recode devs (devscale: 47	scale 1=2 7 changes made)		
. recode devs (devscale: 4	scale 2=3 7 changes made)		
. recode devs (devscale: 60	scale 0=2 6 changes made)		
. tab devscal	le		

Cum.	Percent	Freq.	devscale
58.41 100.00	58.41 41.59	66   47	2 3
	100.00	113	Total

. \*\*\* Once I had developing and developed on a scale, I wanted to add the information for least developed from the other "leastdev" variable. I couldn't do this automatically so I recoded it by hand, using the information in the data file . replace devscale = 1 in 11 (1 real change made) . replace devscale = 1 in 16(1 real change made) . replace devscale = 1 in 50 (1 real change made) . replace devscale = 1 in 52(1 real change made) . replace devscale = 1 in 53 (1 real change made) . replace devscale = 1 in 57 (1 real change made) . replace devscale = 1 in 58 (1 real change made) . replace devscale = 1 in 69(1 real change made) . replace devscale = 1 in 90(1 real change made) . replace devscale = 1 in 91 (1 real change made) . replace devscale = 1 in 94(1 real change made) . replace devscale = 1 in 97(1 real change made) . replace devscale = 1 in 104(1 real change made) . replace devscale = 1 in 108 (1 real change made) . replace devscale = 1 in 113 (1 real change made) . tab devscale Freq. Percent Cum. devscale | 15 13.27 13.27 1 | 2 | 51 45.13 41.59 58.41 3 | 47 100.00 Total | 113 100.00

. tab devscale, nol Cum. devscale | Freq. Percent \_\_\_\_\_ 15 13.27 13.27 51 45.13 58.41 47 41.59 100.00 1 | 2 | 3 | Total | 113 100.00 . label define devscale 1 "leastdeveloped" 2 "developing" 3 "developed" . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . \*\*\* Having looked at GDP and percentage of women in work, I want to look more at the % of women in paid in work so inputting World Bank information taken from 2019 for the work figures: . clear . insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\%paid.csv" (56 vars, 265 obs) . rename v1 country . rename v2 yr2011 . rename v3 yr2012 . rename v4 yr2013 . rename v5 yr2014 . rename v6 yr2015 . rename v7 yr2016 . rename v8 yr2017 . rename v9 yr2018 . rename v10 yr2019 . drop in 1 (1 observation deleted) . replace country = upper(country) (264 real changes made) . sort country . saveold paid.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file paid.dta saved

```
. clear
```

. use final1.dta

. merge m:m country using paid.dta

Result	# of obs.	
not matched from master from using	171 10 161	(_merge==1) (_merge==2)
matched	103	(_merge==3)

. tab country if \_merge == 1

country	Freq.	Percent	Cum.
BAHAMAS	1	10.00	10.00
BOLIVIA (PLURINATIONAL STATE OF)	1	10.00	20.00
MICRONESIA (FEDERATED STATES OF)	1	10.00	30.00
REPUBLIC OF KOREA	1	10.00	40.00
REPUBLIC OF MOLDOVA	1	10.00	50.00
SAINT KITTS AND NEVIS	1	10.00	60.00
SAINT LUCIA	1	10.00	70.00
SAINT VINCENT AND THE GRENADINES	1	10.00	80.00
SLOVAKIA	1	10.00	90.00
UNITED STATES OF AMERICA	1	10.00	100.00
Total	10	100.00	

. clear

. use paid.dta

```
. replace country = "BAHAMAS" in 15
(1 real change made)
. replace country = "BOLIVIA (PLURINATIONAL STATE OF)" in 25
(1 real change made)
. replace country = "MICRONESIA (FEDERATED STATES OF)" in 157
(1 real change made)
. replace country = "REPUBLIC OF KOREA" in 125
(1 real change made)
. replace country = "REPUBLIC OF MOLDOVA" in 162
(1 real change made)
. replace country = "SAINT KITTS AND NEVIS" in 224
(1 real change made)
. replace country = "SAINT LUCIA" in 225
(1 real change made)
. replace country = "SAINT VINCENT AND THE GRENADINES" in 227
(1 real change made)
. replace country = "SLOVAKIA" in 213
(1 real change made)
. replace country = "UNITED STATES OF AMERICA" in 252
(1 real change made)
. sort country
. saveold paid.dta, replace
```

(saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file paid.dta saved . clear . use final1.dta . merge m:m country using paid.dta Result # of obs. \_\_\_\_\_ not matched 151 0 (\_merge==1) 151 (\_merge==2) from master from using matched 113 ( merge==3) \_\_\_\_\_ . drop in 114/264 (151 observations deleted) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . drop merge . drop v56 . drop yr2011 yr2012 yr2013 yr2014 yr2015 yr2016 yr2017 yr2018 yr2019 v11 v12 v13 v14 v15 v16 v17 v18 v19 v20 v21 v22 v23 v24 v25 v26 v27 v28 v29 v30 v31 v32 v33 v34 v35 v36 v37 v38 v39 v40 v41 v42 v43 v44 v45 v46 v47 v48 v49 v50 v51 v52 v53 v54 v55 . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . \*\*\*\* I used excel to copy the lagged percentage over in this case because it is easier to recode by hand on excel than on dta. . \*\*\*\* The first bit of this was making sure I had the right countries and years to copy over, not including electoral democracies. Now I go onto merge these into a dataset all together: . clear . insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\paid%.csv" (2 vars, 113 obs) . saveold paid.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) note: variable label "country" contains unicode and thus may not display well in Stata 13. file paid.dta saved . clear

. use final1.dta

. merge m:m country using paid.dta

# of obs. Result \_\_\_\_\_ not matched 0 113 ( merge==3) matched \_\_\_\_\_ . rename \_merge merge7 . \*\*\* replaced lagpaid missing values with the mean of the dataset to be able to include it in the model mean lagpaid Mean estimation Number of obs = 98 \_\_\_\_\_ -----Mean Std. Err. [95% Conf. Interval] -----+----+ lagpaid | 67.06831 2.692242 61.72495 72.41166 \_\_\_\_\_ . recode lagpaid .=67.068 (lagpaid: 15 changes made) . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . \*\*\* insert first woman in parliament variable (IPU) . clear . insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\firstfempar.csv" (2 vars, 182 obs) . replace country=upper(country) (182 real changes made) . sort country . saveold firstfempar.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file firstfempar.dta saved . clear . use final1.dta . merge 1:1 country using firstfempar.dta # of obs. Result \_\_\_\_\_ 75 not matched from master 3 ( merge==1) from using 72 (merge==2)

matched 110 (\_merge==3)

. tab country if merge == 1

. drop in 114/185

Cum.	Percent	Freq.	country
33.33	33.33	1	LIBERIA
66.67	33.33	1	MICRONESIA (FEDERATED STATES OF)
100.00	33.33	1	SIERRA LEONE
	100.00	3	Total

. \*\*\* Liberia, Micronesia and Sierra Leona don't have dates for this because they have not yet had a female member of parliament, I will recode these 0. I can also drop the other variables that didn't match because these are not electoral democracies.

(72 observations deleted) . rename merge merge8 . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved . gen femparl = electionyr - firstwomaninparliament (3 missing values generated) . replace femparl = 0 in 53 (1 real change made) . replace femparl = 0 in 63(1 real change made) . replace femparl = 0 in 94(1 real change made) . \*\*\* replaced missing values with 0 as this is the true value, 0 years since the first woman in parliament as there has never been one. . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved

. clear

. insheet using "C:\Users\andre\Documents\9.Pip\Dissertation\suffrage.csv"
(2 vars, 189 obs)

```
. rename v1 country
. rename righttovote suffrage
. replace country=upper(country)
(189 real changes made)
. sort country
. saveold suffrage.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file suffrage.dta saved
. clear
. use final1.dta
. merge m:m country using suffrage.dta
     Result
                                                # of obs.
     -----
                                                       100
     not matched
          from master
                                                        12 ( merge==1)
                                                        88 (_merge==2)
          from using
     matched
                                                      101 ( merge==3)
         _____
. tab country if merge == 1
                                         country | Freq.
                                                                          Percent
                                                                                               Cum.
_____

      ANDORRA |
      1
      8.33
      8.33

      ANTIGUA AND BARBUDA |
      1
      8.33
      16.67

      BAHAMAS |
      1
      8.33
      25.00

      BOLIVIA (PLURINATIONAL STATE OF) |
      1
      8.33
      33.33

      CHILE |
      1
      8.33
      50.00

      MICRONESIA (FEDERATED STATES OF) |
      1
      8.33
      50.00

      MONTENEGRO |
      1
      8.33
      58.33

      NORTH MACEDONIA |
      1
      8.33
      66.67

      REPUBLIC OF MOLDOVA |
      1
      8.33
      75.00

      SERBIA |
      1
      8.33
      91.67

      VANUATU |
      1
      8.33
      100.00

Total | 12 100.00
. clear
. use suffrage.dta
. replace country = "ANDORRA" in 4
(1 real change made)
. replace country = "ANTIGUA AND BARBUDA" in 6
(1 real change made)
. replace country = "BOLIVIA (PLURINATIONAL STATE OF)" in 22
(1 real change made)
. replace country = "CHILE" in 36
(1 real change made)
. replace country = "MICRONESIA (FEDERATED STATES OF)" in 112
(1 real change made)
```

```
. replace country = "NORTH MACEDONIA" in 103
(1 real change made)
. replace country = "REPUBLIC OF MOLDOVA" in 114
(1 real change made)
. replace country = "VANUATU" in 186
(1 real change made)
. sort country
. saveold suffrage.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file suffrage.dta saved
. clear
. use final1.dta
. merge m:m country using suffrage.dta
                                     # of obs.
    Result
    _____
                                       _____
                                            90
    not matched
       from master
                                             7 ( merge==1)
       from using
                                            83 ( merge==2)
    matched
                                           106 ( merge==3)
    _____
. tab country if merge == 1
                                country | Freq. Percent Cum.
_____

      BAHAMAS
      1
      14.29
      14.29

      ADAGASCAR
      1
      14.29
      28.57

      MEXICO
      1
      14.29
      28.57

      MEXICO
      1
      14.29
      42.86

      MONACO
      1
      14.29
      57.14

      ONTENEGRO
      1
      14.29
      71.43

      SERBIA
      1
      14.29
      85.71

      MOR-LESTE
      1
      14.29
      100.00

                              MADAGASCAR |
                              MONTENEGRO |
                             TIMOR-LESTE |
   _____
                             Total | 7 100.00
. replace suffrage = 1961 in 7
(1 real change made)
. drop in 114/196
(83 observations deleted)
. mean suffrage
                                   Number of obs = 107
Mean estimation
           | Mean Std. Err. [95% Conf. Interval]
_____
                                          -----
  suffrage | 1945.841 1.972172 1941.931 1949.751
_____
```

. \*\*\* Bahamas Universal suffrage year is in the dataset so that is just recoded (line 7)

. \*\*\* All other countries with missing universal suffrage years use the mean average for the entire suffrage year: . replace suffrage = 1946 in 57 (1 real change made) . replace suffrage = 1946 in 62 (1 real change made) . replace suffrage = 1946 in 64 (1 real change made) . replace suffrage = 1946 in 66 (1 real change made) . replace suffrage = 1946 in 92 (1 real change made) . replace suffrage = 1946 in 104 (1 real change made) . destring, replace country: contains nonnumeric characters; no replace chamber: contains nonnumeric characters; no replace percentwomen: all characters numeric; replaced as double structure: contains nonnumeric characters; no replace merge1 already numeric; no replace electdemoc already numeric; no replace elecsystem: contains nonnumeric characters; no replace merge2 already numeric; no replace volpolparty: contains nonnumeric characters; no replace quotaype: contains nonnumeric characters; no replace constitutional: contains nonnumeric characters; no replace electoral: contains nonnumeric characters; no replace merge4 already numeric; no replace quotatype already numeric; no replace election: contains nonnumeric characters; no replace electionyr already numeric; no replace nextelec: contains nonnumeric characters; no replace merge5 already numeric; no replace region: contains nonnumeric characters; no replace LDC: contains nonnumeric characters; no replace LLDC: contains nonnumeric characters; no replace SIDS: contains nonnumeric characters; no replace Develop: contains nonnumeric characters; no replace merge6 already numeric; no replace leastdev already numeric; no replace landlockdev already numeric; no replace islanddev already numeric; no replace developed already numeric; no replace devscale already numeric; no replace lagpaid already numeric; no replace merge7 already numeric; no replace firstwomaninparliament already numeric; no replace merge8 already numeric; no replace femparl already numeric; no replace suffrage already numeric; no replace merge already numeric; no replace . gen yrssuffrage = electionyr - suffrage . saveold final1.dta, replace (saving in Stata 13 format) (FYI, saveold has options version(12) and version(11) that write files in older Stata formats) file final1.dta saved

. . \*\*\*\* Elecystem is still string so need to recode this to be numerical:

. encode elecsystem, gen(votesystem)

\*\* Now I have a complete dataset I will run diagnostic tests:

. \*\*\* COOKS DISTANCE \*\*\*:
.
.
. reg percentwomen ib4.votesystem i.quotatype ib3.devscale c.lagpaid c.femparl
c.yrssuffrage

Source	e   SS	df	MS	Number	of obs	= 113	
Mode Residua	1   6029.476 1   11225.88	546 10 312 102	602.947646 110.057659	Prob > R-squa	F ared	= 0.0000 = 0.3494 = 0.2856	
Tota	1   17255.35	576 112	154.065693	Root M	ISE	= 10.491	
pe Interval]	ercentwomen	Coef.	Std. Err.	t	P> t	[95% Conf.	
 Mi:	votesystem   xed system	1.205668	2.792714	0.43	0.667	-4.333668	
0.743004 Othe 24.53065 Plurality .6967663	er systems   y/majority	2.489368 -6.255392	11.11235 2.802439	0.22 -2.23	0.823 0.028	-19.55192 -11.81402	_
Legislated ( 9.248918 Rese:	   quotatype   Candidat     rved seats	4.567149 4.780274	2.360363	1.93 0.72	0.056	1146204 -8.442837	
18.00338	 devscale   1	-4.040491	5.086814	-0.79	0.429	-14.13016	
6.04918 2.422873	2	-3.163662	2.81651	-1.12	0.264	-8.750197	
.1949749	lagpaid	.0657736	.0651382	1.01	0.315	0634277	
.208925	femparl   yrssuffrage	.1146488 0134993	.0475303	2.41 -0.21	0.018	.0203726 1385857	
.1115871 31.60586	_cons	16.74071	7.494422	2.23	0.028	1.875559	

\_\_\_\_

. predict d, cook

. predict y
(option xb assumed; fitted values)

. scatter y d, scheme(plottig)
(note: scheme plottig not found, using s2color)

. graph save "Graph" "C:\Users\andre\Documents\9.Pip\Dissertation\Cooks D.gph", replace (file C:\Users\andre\Documents\9.Pip\Dissertation\Cooks D.gph saved) do "C:\Users\andre\AppData\Local\Temp\STD2fc8\_000000.tmp"

. list if d>0.04

\_\_\_\_\_ 2. | country | chamber percen~n | ANDORRA | General Council | 46.43 | | - -| structure | mergel | electd~c | elecsystem | merge2 | Mixed system | matched | Unicameral | matched (3) | Yes | (3) | \_\_\_\_\_ | - ----| | volpol~y | quotaype | consti~l | electo~l | merge4 | | | master only (1) | ---------| quotatype | election | electi~r | nextelec | 0 | 07-Apr-19 | 2019 | 30-Apr-23 | \_\_\_\_\_ 1 -- 1 merge5 | region | LDC | LLDC | SIDS | Develop | merge6 | leastdev | | matched (3) | Europe | | | | Developed | matched (3) | 0 | |-----+ - 1 | landlo~v | island~v | developed | devscale | lagpaid | merge7 | firstw~t | 0 | 0 | Developed | 3 | 67.068 | matched (3) | 1993 | \_\_\_\_\_ | - ---| merge8 | femparl | suffrage | merge | yrssuf~e | | matched (3) | 26 | 1970 | matched (3) | 49 \_\_\_\_\_ ----| votesystem 1 d У Mixed system | .0726321 | 24.67708 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_+ country | 12. | chamber | percen~n | | BOLIVIA (PLURINATIONAL STATE OF) | Chamber of Deputies | 53.08 | \_\_\_\_\_ |--------|

| structure | mergel | electd~c | elecsystem | merge2 | Mixed system | matched | Bicameral | matched (3) | Yes | (3) \_\_\_\_\_ quotaype | consti~l | electo~l | | volpol~y | merge4 | Yes | Legislated Candidate Quotas | No | Yes | matched (3) |-----quotatype | election | electi~r | nextelec | | Legislated Candidate Quotas | 20-Oct-19 | 2019 | 03-May-20 | \_\_\_\_\_ \_\_\_\_\_ |--------| merge5 | region | LDC | LLDC | SIDS | Develop | merge6 | leastdev | | matched (3) | Americas | | x | | Developing | matched (3) | 0 | | landlo~v | island~v | developed | devscale | lagpaid | merge7 | firstw~t | x | 0 | 0 | 2 | 34.379 | matched (3) | 1956 | \_\_\_\_\_ merge8 | femparl | suffrage | \_\_merge | vrssuf~e | | matched (3) | 63 | 1952 | matched (3) | 1 67 |---------| votesystem | d | V Mixed system | .0652124 | 27.92951 L \_\_\_\_\_ \_\_\_\_\_ country | 67. | chamber | percen~n | NAMIBIA | National Assembly | 42.71 | \_\_\_\_\_ | - - - -| structure | mergel | electd~c | elecsystem | merge2 | | Bicameral | matched (3) | Yes | Proportional representation | matched (3) \_\_\_\_\_ | -----| | volpol~y | quotaype | consti~l | electo~l | merge4 | | | master only (1) | \_\_\_\_\_ \_\_\_\_\_ ----| quotatype | election | electi~r | nextelec | 27-Nov-19 | 2019 | 30-0 | Nov-24 |

\_\_\_\_\_ merge5 | region | LDC | LLDC | SIDS | Develop | merge6 | 1 leastdev | | matched (3) | Africa | | | | Developing | matched (3) | 0 | | landlo~v | island~v | developed | devscale | lagpaid | merge7 | firstw~t | | 0| 0| 1989 | 0 | 2 | 65.082 | matched (3) | \_\_\_\_\_ | - merge8 | femparl | suffrage | merge | yrssuf~e | | matched (3) | 30 | 1989 | matched (3) | 1 30 |-----\_\_\_\_\_ ----| votesystem I d \_\_\_\_\_ V I Proportional representation | .0489518 | 20.89221 1 +-----\_\_\_\_\_ \_\_\_\_ 69. I country | chamber | percen~n | NEPAL | House of Representatives 1 32.73 | - - - ----| structure | mergel | electd~c | elecsystem | merge2 | | Bicameral | matched (3) | Yes | Mixed system | matched (3) \_\_\_\_\_ quotaype | consti~l | electo~l | | volpol~y | merge4 | Reserved seats | Yes | Yes | matched No | (3) \_\_\_\_\_ quotatype | election | electi~r | nextelec | Reserved seats | 26 Nov 2017 - 07 Dec 2017 | 2017 | 30-Nov-22 | ----| merge5 | region | LDC | LLDC | SIDS | Develop | merge6 | leastdev | | matched (3) | Asia | x | x | | Developing | matched (3) | x | -----+ - 1 | landlo~v | island~v | developed | devscale | lagpaid | merge7 | firstw~t | 1 | 9.093 | matched (3) | x | 0 | 0 | 1 1952 | \_\_\_\_\_ ---| merge8 | femparl | suffrage | \_\_merge | \_\_\_\_\_ yrssuf~e |

66	matched (3)   65   1951   	matched (3)
   	votesystem     Mixed system	d   y .0407511   25.84546
88. percer	+ + +   country   n~n	chamber
10	SAMOA      +	Legislative Assembly
merge2	   structure   mergel   electd~c   2     Unicameral   matched (3)   Yes     	elecsystem   Plurality/majority   matched
 merge (3)	   volpol~y   quotaype   4     Reserved seats   	consti~l   electo~l   Yes     matched
nexte Mar-2	   quotatype   Lec     Reserved seats   	election   electi~r   04-Mar-16   2016   31-
 leasto 0	   merge5   region   LDC   LLDC   SID dev     matched (3)   Oceania	S   Develop   merge6   x   Developing   matched (3)
 firstv 1964	     landlo~v   island~v   developed   devscal  v~t     0   x   0     	e   lagpaid   merge7   2   63.106   matched (3)
yrssui 26	   merge8   femparl   suffrage f~e     matched (3)   52   1990   	_merge     matched (3)
     	   votesystem     Plurality/majority   +	d   y .1322632   21.86339
91. percer 43.03	+ +   country   n~n     SENEGAL   	chamber   National Assembly

94

----| | structure | mergel | electd~c | elecsystem | merge2 | | Unicameral | matched (3) | Yes | Mixed system | matched (3) \_\_\_\_\_ 1 quotaype | consti~l | electo~l | | volpol~y | merge4 | | No | Legislated Candidate Quotas | No | Yes | matched (3) | \_\_\_\_\_ quotatype | election | electi~r | nextelec | | Legislated Candidate Quotas | 30-Jul-17 | 2017 | 31-Jul-22 | |--------| merge5 | region | LDC | LLDC | SIDS | Develop | merge6 | leastdev | | matched (3) | Africa | x | | Developing | matched (3) | x | |-----+ ----| | landlo~v | island~v | developed | devscale | lagpaid | merge7 | firstw~t | 0 | 0 | 0 | 1 | 26.302 | matched (3) | 1963 | \_\_\_\_\_ | - -- 1 merge8 | femparl | suffrage | \_merge | yrssuf~e | | matched (3) | 54 | 1945 | matched (3) | 72 1 \_\_\_\_\_ | - - - ----| votesystem | d | У Mixed system | .0409477 | 1 25.4221 L \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_ 98. I country | chamber | percen~n | SOUTH AFRICA | National Assembly | 46.58 ----| | structure | mergel | electd~c | elecsystem | merge2 | Bicameral | matched (3) | Yes | Proportional representation | matched (3) | \_\_\_\_\_ --1 | volpol~y | quotaype | consti~l | electo~l | merge4 | | master only (1) ---------| quotatype | election | electi~r | nextelec |

0 | 08-May-19 | 2019 | 31-Mav-24 \_\_\_\_\_ merge5 | region | LDC | LLDC | SIDS | Develop | merge6 | 1 leastdev | | matched (3) | Africa | | | | Developing | matched (3) | 0 | |-----+ | landlo~v | island~v | developed | devscale | lagpaid | merge7 | firstw~t | 0 | 0 | 0 | 2 | 87.145 | matched (3) | 1933 | |---merge8 | femparl | suffrage | \_\_merge | - L yrssuf~e | | matched (3) | 86 | 1994 | matched (3) | 25 \_\_\_\_\_ | - -----| votesystem 1 d | Proportional representation | .0701299 | 28.8312 | \_\_\_\_\_ \_\_\_\_\_ 104. | country | chamber | percen~n | TIMOR-LESTE | National Parliament 38.46 | |-------| | structure | mergel | electd~c | elecsystem | merge2 | | Unicameral | matched (3) | Yes | Proportional representation | matched (3) \_\_\_\_\_ |---------| | volpol~y | quotaype | consti~l | electo~l | merge4 | No | Legislated Candidate Quotas | No | Yes | matched (3) ----quotatype | election | electi~r | nextelec | 12-May-18 | | Legislated Candidate Quotas | 2018 | 31-Mav-23 | \_\_\_\_\_\_ ----| | merge5 | region | LDC | LLDC | SIDS | Develop | merge6 | leastdev | | matched (3) | Asia | x | | x | Developing | matched (3) | хI \_\_\_\_\_ | landlo~v | island~v | developed | devscale | lagpaid | merge7 | firstw~t | | 2001 | 0 | x | 0 | 1 | 18.961 | matched (3) | |---------|

merge8 | femparl | suffrage | merge | 1 vrssuf~e | | matched (3) | 17 | 1946 | master only (1) | 72 \_\_\_\_\_ | -------| votesystem | d V .0455121 19.49158 Proportional representation . reg percentwomen ib4.votesystem i.quotatype ib3.devscale c.lagpaid c.femparl c.yrssuffr > age if d<0.04 8.19 Source | SS df MS Number of obs = \_\_\_\_\_ percentwomen | Coef. Std. Err. t P>|t| [95% Conf. Intervall \_\_\_\_\_+ votesystem | Mixed system | -2.448786 2.605308 -0.94 0.350 -7.621687 2.724115 Other systems | 8.117758 9.656736 0.84 0.403 -11.05592 27.29143 Plurality/majority | -2.943765 2.530698 -1.16 0.248 -7.968525 2.080995 quotatype | Legislated Candidat.. | 5.847145 2.151078 2.72 0.008 1.576129 10.11816 Reserved seats | 17.40805 9.618872 1.81 0.074 -1.69044836.50654 devscale | 1 | -4.9156 4.695914 -1.05 0.298 -14.23945 4.408247 2 | -3.140019 2.505684 -1.25 0.213 -8.115113 1.835076 lagpaid | .1085669 .0578633 1.88 0.064 -.006322 .2234558 femparl | .1030685 .0427906 2.41 0.018 .0181068 .1880302 yrssuffrage | .0662486 .0612026 1.08 0.282 -.0552706 .1877678 \_cons | 6.562605 6.856636 0.96 0.341 -7.05140620.17662

. \*\*\* Removing the 8 countries identified as outliers, the variance goes up and there are some changes to the coefficients and significance levels. Therefore, I have removed these countries from future analysis.

. drop if d>0.04

(8 observations deleted)

. saveold final1.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file final1.dta saved

. \*\*\* with the 8 countries removed, for categories "other" in votesystem and "reserved seats" in quotas, there is only one observation. Therefore, I have created dummy variables which will be used in the analysis instead as I cannot have a category with only one observation:

. tab votesystem

votesystem	Freq.	Percent	Cum.
Mixed system Other systems Plurality/majority Proportional representation	17   1   31   56	16.19 0.95 29.52 53.33	16.19 17.14 46.67 100.00
Total	+   105	100.00	

. gen systemelec=votesystem

. tab systemelec

systemelec	Freq.	Percent	Cum.
1	17	16.19	16.19
2	1	0.95	17.14
3	31	29.52	46.67
4	56	53.33	100.00
 Total	+   105	100.00	

. recode systemelec 2=1 3=1
(systemelec: 32 changes made)

. tab systemelec

Cum.	Percent	Freq.	systemelec
46.67 100.00	46.67 53.33	49 56	1   4
	100.00	105	Total

. recode systemelec 4=2
(systemelec: 56 changes made)

. tab systemelec

Cum.	Percent	Freq.	systemelec
46.67 100.00	46.67 53.33	49   56	1   2
	100.00		Total

. label define systemelec 1 "other" 2 "Proportional Representation"

. reg percentwomen systemelec

Source	SS SS	df	MS	Number of obs	=	105
	+			F(1, 103)	=	16.25
Model	1948.88497	1	1948.88497	Prob > F	=	0.0001

Total   14305.5166         104         137.553044         Root MSE         =         10.5128           percentwomen           Coef.         Std. Err.         t         P>iti         1958 Conf. Intervall           systemelec           8.63563         2.142565         4.03         0.000         4.386391         12.88454	Residual	ll   12356.6316 103 119.967297		R	R-squared =		0.1362	
percentwomen   Coef. Std. Err. t P> t  [958 Conf. Interval] systemelec   8.635663 2.142565 4.03 0.000 4.386391 12.88494 	Total	14305.5166	104	137.553044	R R	oot MSE	=	10.953
systemelec         8.635663         2.142565         4.03         0.000         4.386391         12.88494          oons         10.6376         3.454782         3.08         0.003         3.785856         17.48935           .generate PR=systemelec         .tab PR	percentwomen	Coef.	Std. Err.	 t	P> t	[95% Con	f.	Interval]
. generate PR=systemelec . tab PR PR   Freq. Percent Cum. 1   49 46.67 46.67 2   56 53.33 100.00 . recode PR 1=0 (PR: 49 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 2   56 53.33 100.00 . recode PR 2=1 (PR: 56 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 1   56 53.33 100.00 . recode PR 2=1 (PR: 56 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 1   56 53.33 100.00 . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 1   56 53.33 100.00 . tab PR PR   Freq. Percent Cum. 0   67 63.81 63.81 Legislated Candidate Quotas 37 35.24 99.05 Reserved seats   1 0.55 100.00 . gen quotatype . recode quota 2=1 (quota: 1 changes made) . tab quota quota   IOS ION.00	systemelec cons	8.635663 10.6376	2.142565 3.454782	4.03 3.08	0.00	0 4.386391 3 3.785856		12.88494 17.48935
. tab PR PR   Freq. Percent Cum. 1   49 46.67 46.67 2   56 53.33 100.00 Total   105 100.00 . recode PR 1=0 (PR: 49 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 2   56 53.33 100.00 . recode PR 2=1 (PR: 56 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 1   105 100.00 . recode PR 2=1 (PR: 56 53.33 100.00 Total   105 100.00 . label define PR 0 "other" 1 "proportional representation" tab quotatype quotatype   Freq. Percent Cum. 0   67 63.81 63.81 Legislated Candidate Quotas   37 35.24 99.05 Reserved seats   1 0.95 100.00 . gen quota=quotatype . recode quota 2=1 (quota   105 100.00	. generate PR:	=systemelec						
PR           Freq.         Percent         Cum.           1         49         46.67         46.67           2         56         53.33         100.00           Total           105         100.00           . recode PR 1=0 (PR: 49 changes made)         .           . tab PR         PR           Freq.         Percent         Cum.           0         49         46.67         46.67         20.00           . tab PR         PR           Freq.         Percent         Cum.           0         49         46.67         46.67         46.67           1         105         100.00         .         recode PR 2=1         PR:         Freq.         Percent         Cum.           (PR: 56         6         53.33         100.00         .         recode PR 2=1         PR:         56         53.33         100.00           . tab PR         Preq.         Percent         Cum.         Cum.         0         6         7         6.67         1         5         53.33         100.00           . tab quotatype	. tab PR							
1       49       46.67       46.67         2       56       53.33       100.00         Total         105       100.00         . recode PR 1=0 (PR: 49 changes made)       .         . tab PR       PR   Preq. Percent Cum.         0       49       46.67       46.67         2       56       53.33       100.00         Total         105         0       49       46.67       46.67         2       56       53.33       100.00         Total         105         Total         105         (PR: 56 changes made)         tab PR         PR   Freq. Percent Cum.         0       49       46.67       46.67         10       56       53.33       100.00         Total         105       100.00         Itab PR	PR	Freq.	Percent	Cum.				
Total         105       100.00         . recode PR 1=0 (PR: 49 changes made)         . tab PR	1   2	49 56	46.67 53.33	46.67 100.00	, , ,			
. recode PR 1=0 (PR: 49 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 2   56 53.33 100.00 Total   105 100.00 . recode PR 2=1 (PR: 56 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 1   56 53.33 100.00 . label define PR 0 "other" 1 "proportional representation" . tab quotatype quotatype   Freq. Percent Cum. 0   67 63.81 63.81 Legislated Candidate Quotas   37 35.24 99.05 Reserved seats   1 0.95 100.00 . gen quota=quotatype . recode quota 2=1 (quota 1 changes made) . tab quota	Total	105	100.00					
. tab FR PR   Freq. Percent Cum. 0   49 46.67 46.67 2   56 53.33 100.00 Total   105 100.00 . recode FR 2=1 (PR: 56 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 1   56 53.33 100.00 Total   105 100.00 . label define FR 0 "other" 1 "proportional representation" . tab quotatype quotatype   Freq. Percent Cum. 0   67 63.81 63.81 Legislated Candidate Quotas   37 35.24 99.05 Reserved seats   1 0.95 100.00 . gen quota=quotatype . recode quota 2=1 (quota ! Freq. Percent Cum.	. recode PR 1: (PR: 49 change	=0 es made)						
PR           Freq.         Percent         Cum.           0           49         46.67         46.67           2           56         53.33         100.00           Total           105         100.00           . recode PR 2=1 (PR: 56 changes made)         .           . tab PR         PR           Freq.           0           49         46.67         46.67           1           56         53.33         100.00           . tab PR         .         .         .           0           49         46.67         46.67           1           56         53.33         100.00           . label define PR 0 "other" 1 "proportional representation"         .           .         .         .         .           .         .         .         .           .         .         .         .           .         .         .         .           .         .         .         .           .         .         .         .           .         .         .         .           .         .         .         .           .         . <td>. tab PR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	. tab PR							
0         49         46.67         46.67           2         56         53.33         100.00           Total           105         100.00           . recode PR 2=1 (PR: 56 changes made)         .           . tab PR         PR           Freq.           0         49         46.67         46.67           1         56         53.33         100.00           . tab PR           PR           Freq.         Percent         Cum.           0         49         46.67         46.67           1         56         53.33         100.00           . tab PR	PR	Freq.	Percent	Cum.				
Total         105       100.00         . recode PR 2=1 (PR: 56 changes made)         . tab PR         PR   Freq. Percent Cum. 0   49         0   49       46.67       46.67         1   56       53.33       100.00         Total   105         Total   105         I proportional representation"         .         tab quotatype         Quotatype   Freq. Percent Cum.         0   67       63.81       63.81         Legislated Candidate Quotas   37       35.24       99.05         Reserved seats   1       0.95       100.00         Total   105       100.00         . recode quota 2=1         (quota 1       changes made)         . tab quota         quota 1       Freq. Percent       Cum.	0   2	49 56	46.67 53.33	46.67 100.00	)			
. recode PR 2=1 (PR: 56 changes made) . tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 1   56 53.33 100.00 Total   105 100.00 . label define PR 0 "other" 1 "proportional representation" . tab quotatype quotatype   Freq. Percent Cum. 0   67 63.81 63.81 Legislated Candidate Quotas   37 35.24 99.05 Reserved seats   1 0.95 100.00 Total   105 100.00 . gen quota=quotatype . recode quota 2=1 (quota : 1 changes made) . tab quota quota   Freq. Percent Cum.	Total	105	100.00					
. tab PR PR   Freq. Percent Cum. 0   49 46.67 46.67 1   56 53.33 100.00 Total   105 100.00 . label define PR 0 "other" 1 "proportional representation" . tab quotatype quotatype   Freq. Percent Cum. 0   67 63.81 63.81 Legislated Candidate Quotas   37 35.24 99.05 Reserved seats   1 0.95 100.00 . gen quota=quotatype . recode quota 2=1 (quota : 1 changes made) . tab quota quota   Freq. Percent Cum.	. recode PR 2: (PR: 56 change	=1 es made)						
PR       Freq.       Percent       Cum.         0       49       46.67       46.67         1       56       53.33       100.00         Total         105         Total         105       100.00         . label define PR 0 "other" 1 "proportional representation"         .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       <	. tab PR							
0       49       46.67       46.67         1       56       53.33       100.00         Total   105       100.00         . label define PR 0 "other" 1 "proportional representation"         .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .	PR	Freq.	Percent	Cum.				
Total   105 100.00 . label define PR 0 "other" 1 "proportional representation" . tab quotatype 	0   1	49 56	46.67 53.33	46.67 100.00	)			
<pre>. label define PR 0 "other" 1 "proportional representation" tab quotatype</pre>	Total	105	100.00					
. tab quotatype 	. label define	e PR 0 "other"	1 "propor	tional repr	resen	tation"		
quotatype       Freq.       Percent       Cum.         0       67       63.81       63.81         Legislated Candidate Quotas       37       35.24       99.05         Reserved seats       1       0.95       100.00         Total       105       100.00         Total       105       100.00         . recode quota 2=1 (quota: 1 changes made)         . tab quota         quota       Freq.       Percent       Cum.	. tab quotaty	pe						
0   67 63.81 63.81 Legislated Candidate Quotas   37 35.24 99.05 Reserved seats   1 0.95 100.00 Total   105 100.00 . gen quota=quotatype . recode quota 2=1 (quota: 1 changes made) . tab quota quota   Freq. Percent Cum.		quotatype	Fre	eq. Per	cent	Cum.		
Legislated Candidate Quotas         37       35.24       99.05         Reserved seats         1       0.95       100.00		0		67 6	53.81	63.81		
Total   105 100.00 . gen quota=quotatype . recode quota 2=1 (quota: 1 changes made) . tab quota quota   Freq. Percent Cum.	Legislated tal	Reserved seats		1 1	0.95	100.00		
. gen quota=quotatype . recode quota 2=1 (quota: 1 changes made) . tab quota quota   Freq. Percent Cum.		Total		105 10	0.00			
<pre>. recode quota 2=1 (quota: 1 changes made) . tab quota    quota   Freq. Percent Cum.</pre>	. gen quota=q	uotatype						
. tab quota quota   Freq. Percent Cum.	. recode quota (quota: 1 char	a 2=1 nges made)						
quota   Freq. Percent Cum.	. tab quota							
	quota	Freq.	Percent	Cum.				

0	67	63.81	63.81
1	38	36.19	100.00
Total		100.00	

. label define quota 0 "no quota" 1 "legal quota"

. saveold final1.dta, replace
(saving in Stata 13 format)
(FYI, saveold has options version(12) and version(11) that write files in older
Stata formats)
file final1.dta saved

. reg percentwomen PR quota ib3.devscale c.lagpaid c.femparl c.yrssuffrage

Source	SS	df	MS	Nui	mber of ok	s =	105
	+			F(	7, 97)	=	11.29
Model	6421.68288	3 7	917.3832	269 Pro	ob > F	=	0.0000
Residual	7883.8337	7 97	81.27663	361 R-	squared	=	0.4489
	+			Ad	j R-square	ed =	0.4091
Total	14305.5166	5 104	137.5530	044 Ro	ot MSE	=	9.0154
percentwomen	Coef.	Std. Err	. t	 P> t	 95% ا	Conf.	Intervall
	+						
PR	2.214445	2.032796	1.09	0.279	-1.820	093	6.248983
quota	6.200308	2.006098	3.09	0.003	2.218	3759	10.18186
-	1						
devscale							
1	-4.706967	4.575834	-1.03	0.306	-13.78	873	4.374796
2	-3.28638	2.487008	-1.32	0.189	-8.222	2402	1.649641
lagpaid	.0964093	.05698	1.69	0.094	0166	5803	.2094989
femparl	.1119759	.0422917	2.65	0.009	.0280	386	.1959132
yrssuffrage	.0641428	.059897	1.07	0.287	0547	/361	.1830218
cons	4.694504	6.715847	0.70	0.486	-8.634	1593	18.0236

. estat vif

Variable	VIF	1/VIF
	+	
PR	1.33	0.752633
quota	1.20	0.832899
devscale		
1	2.74	0.365216
2	1.98	0.506145
lagpaid	2.39	0.418536
femparl	1.69	0.591981
yrssuffrage	1.65	0.605733
	+	
Mean VIF	1.85	

. estat hettest, iid

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity Ho: Constant variance Variables: fitted values of percentwomen

> chi2(1) = 0.15 Prob > chi2 = 0.7030

graph box percentwomen

```
. graph save "Graph"
"C:\Users\andre\Documents\9.Pip\Dissertation\percentwomenbox.gph"
file C:\Users\andre\Documents\9.Pip\Dissertation\percentwomenbox.gph already exists
r(602);
. graph box lagpaid
. histogram devscale
(bin=10, start=1, width=.2)
. histogram devscale, frequency
(bin=10, start=1, width=.2)
. graph box yrssuffrage
. graph box femparl
. scatter percentwomen lagpaid
. **** GRAPHS AND TABLES ****
. hist percentwomen, frequency
(bin=10, start=0, width=4.82)
end of do-file
. do "C:\Users\andre\AppData\Local\Temp\STD2fc8 00000.tmp"
. sum percentwomen
  Variable | Obs Mean Std. Dev. Min Max
_____
                                       -----
percentwomen | 105 23.87895 11.7283 0
                                            48.2
. sum PR
              Obs
                   Mean Std. Dev.
  Variable |
                                     Min
                                             Max
105 .5333333 .5012804
                                     0
                                            1
     PR |
. sum quota
Variable | Obs Mean Std. Dev. Min Max
   quota |
             105 .3619048 .4828563
                                     0
                                             1
. sum devscale
             Obs Mean Std. Dev.
  Variable |
                                     Min
                                            Max
devscale | 105 2.32381 .6721841 1 3
. sum lagpaid
  Variable | Obs Mean Std. Dev. Min Max
______
  lagpaid |
              105 68.6436 23.98154
                                    5.17 95.454
. sum femparl
             Obs Mean Std. Dev. Min Max
  Variable |
```

```
101
```

femparl	105	5 57.4	8571	27.16797	0	1	12
. sum yrssuffi	rage						
Variable	Obs	5	Mean	Std. Dev.	Min	Μ	lax
yrssuffrage	105	5 73.4	8571	18.96359	33	1	24
. *** TWO WAY	SCATTER - 1	Linear re	lationsh	ips:			
twoway (scat	ter percent	women de	vscale)	(lfit perc	entwomen d	devscale)	
. twoway (scat	ter percent	women la	gpaid) (	lfit perce	ntwomen la	agpaid)	
. twoway (scat	ter percent	women fe	emparl) (	lfit perce	ntwomen fe	emparl)	
. twoway (scat	ter percent	women yr	ssuffrag	e) (lfit p	ercentwom	en yrssuf	frage)
, *** Spearmar	n stats:						
spearman per	rcentwomen H	PR quota	devscale	lagpaid f	emparl yr:	ssuffrage	, stats (r
(obs=105)							
Кеу	+						
rho Sig. level	   L   +						
	percen~n	PR	quota	devscale	lagpaid	femparl	yrssuf~e
ercentwomen	1.0000 						
PR	   0.3874   0.0000	1.0000					
quota	0.2815 0.0036	0.3072 0.0014	1.0000				
devscale	0.5200 0.0000	0.3748 0.0001	0.0068 0.9448	1.0000			
lagpaid	0.4533 0.0000	0.2220 0.0229	-0.1352 0.1691	0.7545 0.0000	1.0000		
femparl	0.5249 0.0000	0.2696 0.0054	0.0883 0.3704	0.4511 0.0000	0.4966 0.0000	1.0000	
yrssuffrage	0.3825   0.0001	0.2140 0.0284	-0.0802 0.4163	0.4462 0.0000	0.4554 0.0000	0.5633 0.0000	1.0000
*******	* * * * * * * * * * * *	**** REG	RESSION	OUTPUTS **	* * * * * * * * *	* * *	
*Model 1 - H	PR:						
reg percentw	vomen PR						

 Source |
 SS
 df
 MS
 Number of obs
 =
 105

 ------ F(1, 103)
 =
 16.25

Model Residual	1948.88497 12356.6316	1 103	1948.88497 Pi 119.967297 R·		>F = uared =	0.0001 0.1362
Total	14305.5166	104	137.553044	- Adji 4 Root	MSE =	= 0.1278 = 10.953
percentwomen	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
PR   _cons	8.635663 19.27327	2.142565 1.564708	4.03 12.32	0.000	4.386391 16.17004	12.88494 22.3765
. estat vif						
Variable	VIF	1/VIF				
PR	1.00	1.000000				
Mean VIF	1.00					
. estat hettes	st, iid					
Breusch-Pagan Ho: C Varia chi2 Prob	<pre>/ Cook-Weisbe Constant varia ables: fitted (1) = &gt; chi2 = 0</pre>	rg test fo nce values of 0.19 .6642	r heteroske percentwome	edastici en	τy	
. ** no VIF va . ** chi2 is r . *Model 2 - S . reg percentv	alues above 2 not significan Structural: women PR quota	and so not t so don't	of note need to us	se robust	t standard er	rors.
Source	SS	df	MS	Numbe	er of obs =	= 105
Model Residual	2357.95052 11947.5661	2 102	1178.97520 117.133002	F(2, Frob R-squ	102) = > F = uared =	= 10.07 = 0.0001 = 0.1648 = 0.1485
Total	14305.5166	104	137.553044	4 Root	MSE =	10.823
percentwomen	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
PR quota _cons	7.358459 4.316069 18.39243	2.224686 2.309572 1.616364	3.31 1.87 11.38	0.001 0.065 0.000	2.945805 2649567 15.18638	11.77111 8.897094 21.59848
. estat vif						
Variable	VIF	1/VIF				
PR   quota	1.10 1.10	0.905622 0.905622				
Mean VIF	1.10					
. estat hettes	st, iid					
Breusch-Pagan Ho: ( Varia	/ Cook-Weisbe Constant varia ables: fitted	rg test fo nce values of ;	r heteroske percentwome	edastici en	су	
Chi2 Prob	> chi2 = 0	.9948				

. \*\*\* Chi2 is significant so need to use robust standard errors and will need to do so for all models.

. \*Model 3 - Structural and socio-economic:

. reg percentwomen PR quota ib3.devscale c.lagpaid

Source	SS	df	MS	Numk	per of obs	=	105
	+			- F(5,	, 99)	=	11.75
Model	5329.1313	5	1065.82626	5 Prok	) > F	=	0.0000
Residual	8976.38529	99	90.6705584	l R-so	quared	=	0.3725
	+			- Adj	R-squared	=	0.3408
Total	14305.5166	104	137.553044	l Root	: MSE	=	9.5221
percentwomen	Coef.	Std. Err.	+	P> +	 [95% Cc	onf.	Intervall
	+						
PR	3.071826	2.132483	1.44	0.153	-1.15948	32	7.303135
quota	6.061784	2.076916	2.92	0.004	1.94073	33	10.18284
devscale							
1	-8.355559	4.690776	-1.78	0.078	-17.6630	8 (	.9519585
2	-5.486765	2.522512	-2.18	0.032	-10.4919	98	4815544
lagpaid	.1265884	.0594656	2.13	0.036	.008595	56	.2445811
_cons	14.76828	5.578561	2.65	0.009	3.69920	)1	25.83735

. estat vif

Variable	VIF	1/VIF
PR quota devscale	1.31   1.15	0.762958 0.866881
1 2 lagpaid	2.58   1.82   2.33	0.387706 0.548862 0.428693
Mean VIF	1.84	

. estat hettest, iid

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity Ho: Constant variance Variables: fitted values of percentwomen

> chi2(1) = 0.07 Prob > chi2 = 0.7936

•

. \*Model 4 - Structural, socio-economic and historical:

. reg percentwomen PR quota ib3.devscale c.lagpaid c.femparl c.yrssuffrage

Source	SS	df	MS	Number of ok	os = _	105 11 29
Model Residual	6421.68288 7883.8337	7 97	917.383269 81.2766361	Prob > F R-squared	=	0.0000
Total	+   14305.5166	104	137.553044	Adj R-square Root MSE	ed =	0.4091 9.0154
percentwomen	Coef.	Std. Err.	 t	P> t  [95%	Conf.	Interval]
PR	2.214445	2.032796	1.09	0.279 -1.820	093	6.248983

quota	6.200308	2.006098	3.09	0.003	2.218759	10.18186
devscale						
1	-4.706967	4.575834	-1.03	0.306	-13.78873	4.374796
2	-3.28638	2.487008	-1.32	0.189	-8.222402	1.649641
lagpaid	.0964093	.05698	1.69	0.094	0166803	.2094989
femparl	.1119759	.0422917	2.65	0.009	.0280386	.1959132
yrssuffrage	.0641428	.059897	1.07	0.287	0547361	.1830218
_cons	4.694504	6.715847	0.70	0.486	-8.634593	18.0236
. estat vif						
Variable	VIF	1/VIF				
PR	, 1.33	0.752633				
quota	1.20	0.832899				
devscale	Ì					
1	2.74	0.365216				
2	1.98	0.506145				
lagpaid	2.39	0.418536				

Mean VIF | 1.85

. estat hettest, iid

femparl | yrssuffrage |

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity Ho: Constant variance Variables: fitted values of percentwomen

1.69 0.591981

1.65 0.605733

chi2(1) = 0.15 Prob > chi2 = 0.7030

. \*\*\*\* I will use robust standard errors in my regressions due to the significant chi-2 in the early models. No VIF is above 10 so I do not need to be concerned about multicollinearity and will continue as normal.

. \*Model 5 - Interaction:

. reg percentwomen PR quota##ib3.devscale c.lagpaid c.femparl c.yrssuffrage, robust

Linear regression	Number of obs	=	105
	F(9, 95)	=	10.68
	Prob > F	=	0.0000
	R-squared	=	0.4511
	Root MSE	=	9.0912

 percentwomen	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
PR   1.quota	2.196162 6.946269	2.346707 3.123059	0.94 2.22	0.352 0.029	-2.462641 .7462129	6.854964 13.14633
devscale   1   2	-3.462914 -2.959939	5.166483 3.831909	-0.67 -0.77	0.504 0.442	-13.71968 -10.56724	6.793851 4.647361
quota#devscale   1 1   1 2	-4.218879 7776378	4.674096 4.934272	-0.90 -0.16	0.369 0.875	-13.49813 -10.57341	5.060374 9.01813
lagpaid   femparl	.0964929 .1162511	.0484347 .0371611	1.99 3.13	0.049 0.002	.0003378 .0424769	.192648 .1900252

yrssuffrage | .0623969 .0524956 1.19 0.238 -.04182 .1666138 \_cons | 4.284043 7.786893 0.55 0.584 -11.17489 19.74298 \_\_\_\_\_ . \*Model 1 - Vote System: . quietly reg percentwomen PR, robust . estat ic Akaike's information criterion and Bayesian information criterion Ν ll(null) ll(model) Model | df AIC BIC ------. | 105 -406.9967 -399.3079 2 802.6158 807.9237 \_\_\_\_\_ Note: BIC uses N = number of observations. See [R] BIC note. . est store Model1 . \*Model 2 - Structural: . quietly reg percentwomen PR quota, robust . estat ic Akaike's information criterion and Bayesian information criterion \_\_\_\_\_ Model | N ll(null) ll(model) df ATC BIC \_\_\_\_\_+\_\_\_\_ • | 105 -406.9967 -397.5405 3 801.081 809.0428 \_\_\_\_\_ \_\_\_\_\_ Note: BIC uses N = number of observations. See [R] BIC note. . est store Model2 . \*Model 3 - Structural and socio-economic: . quietly reg percentwomen PR quota ib3.devscale c.lagpaid, robust . estat ic Akaike's information criterion and Bayesian information criterion \_\_\_\_\_ Model | N ll(null) ll(model) df AIC BIC 105 -406.9967 -382.5291 6 777.0583 792.982 . | \_\_\_\_\_ Note: BIC uses N = number of observations. See [R] BIC note. . est store Model3 . \*Model 4 - Structural, socio-economic and historical: . quietly reg percentwomen PR quota ib3.devscale c.lagpaid c.femparl c.yrssuffrage, robus > t . estat ic

Model | N ll(null) ll(model) df AIC BIC -----\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_ \_\_\_\_ . | 105 -406.9967 -375.7155 8 767.4311 788.6627 \_\_\_\_\_ Note: BIC uses N = number of observations. See [R] BIC note. . est store Model4 . \*Model 5 - Interaction: . quietly reg percentwomen PR quota##ib3.devscale c.lagpaid c.femparl c.yrssuffrage, robust . estat ic Akaike's information criterion and Bayesian information criterion \_\_\_\_\_ Model | N ll(null) ll(model) df AIC BIC -----+-----+ . | 105 -406.9967 -375.5016 10 771.0031 797.5427 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ Note: BIC uses N = number of observations. See [R] BIC note. . est store Model5 . \*\*\* EXPORT TO WORD: . esttab Model1 Model2 Model3 Model4 Model5 using Tbs.rtf, replace title(Nested OLS Regre > ssion of Percentage Women in Parliament) b(%9.2f) se(%9.2f) pr2 mtitle("Model 1" "Model > 2" "Model 3" "Model 4" "Model 5") varwidth(15) modelwidth(5 5) stats(AIC N Rsquared, f > mt(%9.2f %9.2f %9.0f)) (output written to Tbs.rtf) end of do-file . tab quota quota | Freq. Percent Cum. \_\_\_\_\_ 67 63.81 63.81 38 36.19 100.00 0 | 1 | Total | 105 100.00 . ssc install estout, replace checking estout consistency and verifying not already installed... all files already exist and are up to date. . \*\*\* Marginsplot for Lagpaid, predicted probabilities (Model 4): . quietly reg percentwomen PR quota ib3.devscale c.lagpaid c.femparl c.yrssuffrage, robust

Akaike's information criterion and Bayesian information criterion

. margins, at(lagpaid=(0(20)100)) atmeans

Adjusted pred Model VCE	dio :	ctions Robust			Number	of
Expression	:	Linear predict	ion,	<pre>predict()</pre>		
1at	:	PR	=	.5333333	(mean)	
		quota	=	.3619048	(mean)	
		1.devscale	=	.1142857	(mean)	
		2.devscale	=	.447619	(mean)	
		3.devscale	=	.4380952	(mean)	
		fomparl	_	57 10571	(moon)	
		yrssuffrage	=	73.48571	(mean)	
2. at	:	PR	=	.5333333	(mean)	
_		quota	=	.3619048	(mean)	
		1.devscale	=	.1142857	(mean)	
		2.devscale	=	.447619	(mean)	
		3.devscale	=	.4380952	(mean)	
		lagpaid	=	20		
		femparl	=	57.48571	(mean)	
		yrssuffrage	=	73.48571	(mean)	
3. at	•	PR	=	.5333333	(mean)	
	•	guota	=	.3619048	(mean)	
		1.devscale	=	.1142857	(mean)	
		2.devscale	=	.447619	(mean)	
		3.devscale	=	.4380952	(mean)	
		lagpaid	=	40	· · ·	
		femparl	=	57.48571	(mean)	
		yrssuffrage	=	73.48571	(mean)	
4. at	:	PR	=	.5333333	(mean)	
_		quota	=	.3619048	(mean)	
		1.devscale	=	.1142857	(mean)	
		2.devscale	=	.447619	(mean)	
		3.devscale	=	.4380952	(mean)	
		lagpaid	=	60		
		femparl	=	57.48571	(mean)	
		yrssuffrage	=	73.48571	(mean)	
5at	:	PR	=	.5333333	(mean)	
		quota	=	.3619048	(mean)	
		1.devscale	=	.1142857	(mean)	
		2.devscale	=	.447619	(mean)	
		3.devscale	=	.4380952	(mean)	
		lagpaid	=	80		
		femparl	=	57.48571	(mean)	
		yrssuffrage	=	73.48571	(mean)	
6at	:	PR	=	.5333333	(mean)	
		quota	=	.3619048	(mean)	
		1.devscale	=	.1142857	(mean)	
		2.devscale	=	.447619	(mean)	
		3.devscale	=	.4380952	(mean)	
		lagpaid	=	100		
		temparl	=	57.48571	(mean)	
		yrssuttrage	=	73.48571	(mean)	
		Delt	∟a−me	eunoa		

	Margin	Delta-method Std. Err.	t	P> t	[95% Conf.	Interval]
at   1   _2	17.26107 19.18926	3.207585 2.31428	5.38 8.29	0.000	10.89491 14.59605	23.62724 23.78246
3 | 3|21.117441.48317914.240.00018.1737424.061144|23.04563.905754525.440.00021.2479624.8433 1.1034522.630.00022.783771.84158914.610.00023.24696 5 | 24.97381 27.16386 6 | 26.902 1.841589 30.55704 \_\_\_\_\_ . marginsplot, ylabels(0 25 50 75 100) recast(line) recastci(rline) cilopts(lpattern(dot)) ytitle("Percentage of women in > parliament") Variables that uniquely identify margins: lagpaid . \*\*\* Marginsplot for femparl, predicted probabilities (Model 4): . quietly reg percentwomen PR quota ib3.devscale c.lagpaid c.femparl c.yrssuffrage, robust. . margins, at(femparl=(0(25)150)) atmeans Adjusted predictions Number of obs = 105 Model VCE : Robust Expression : Linear prediction, predict() = .5333333 (mean) = .3619048 (mean) = .1142057 ( : PR 1.\_at quota 

 quota
 =
 .3619048 (mean)

 1.devscale
 =
 .1142857 (mean)

 2.devscale
 =
 .447619 (mean)

 3.devscale
 =
 .4380952 (mean)

 lagpaid
 =
 68.6436 (mean)

 femparl
 =
 0

 = 73.48571 (mean) yrssuffrage 2. at : PR = .5333333 (mean) PR = .5333333 (mean) quota = .3619048 (mean) 1.devscale = .1142857 (mean) 2.devscale = .447619 (mean) 3.devscale = .4380952 (mean) lagpaid = 68.6436 (mean) femparl = 25 = 73.48571 (mean) yrssuffrage PR = .5333333 (mean) quota = .3619048 (mean) 1.devscale = .1142857 (mean) 2.devscale = .447619 (mean) 3.devscale = .4380952 (mean) lagpaid = 68.6436 (mean) 3. at : PR 68.6436 (mean) lagpaid femparl = 50 yrssuffrage = 73.48571 (mean).5333333 (mean) 4. at = : PR = .3619048 (mean) quota - .3619048 (mean) 1.devscale = .1142857 (mean) 2.devscale = .447619 (mean) 3.devscale = . 3.devscale = .4380952 (mean) lagpaid = 68.6436 (mean) femparl 75 = yrssuffrage = 73.48571 (mean) .5333333 (mean) 5. at : PR = 
 quota
 =
 .3019040 (mean)

 1.devscale
 =
 .1142857 (mean)

 2.devscale
 =
 .447619 (mean)

 3.devscale
 =
 .4380952 (mean)

 lagpaid
 =
 68.6436 (mean)
 femparl = 100

	yrssuffrage	= 73	3.48571 (	mean)		
6at	: PR quota 1.devscale 2.devscale 3.devscale lagpaid femparl yrssuffrage	$ \begin{array}{rcrcr} = & .5 \\ = & .3 \\ = & .1 \\ = & .4 \\ = & .4 \\ = & .6 \\ = & .73 \\ \end{array} $	333333 ( 3619048 ( .142857 ( 447619 ( 1380952 ( 58.6436 ( 125 3.48571 (	mean) mean) mean) mean) mean) mean)		
7at	: PR quota 1.devscale 2.devscale 3.devscale lagpaid femparl yrssuffrage	= .5 = .3 = .1 = .4 = .4 = .6 = .73	333333 ( 3619048 ( 142857 ( 447619 ( 1380952 ( 58.6436 ( 150 3.48571 (	mean) mean) mean) mean) mean) mean)		
	D   Margin	elta-methoc Std. Err.	l t	P> t	[95% Conf.	Interval]
_at 1 2 3 4 5 6 7	   17.44194   20.24134   23.04073   25.84013   28.63953   31.43892   34.23832	2.216171 1.453309 .9230147 1.063467 1.717302 2.511263 3.347076	7.87 13.93 24.96 24.30 16.68 12.52 10.23	0.000 0.000 0.000 0.000 0.000 0.000 0.000	13.04345 17.35692 21.2088 23.72944 25.23116 26.45476 27.5953	21.84042 23.12575 24.87266 27.95082 32.0479 36.42309 40.88134
<pre>. marginsplot cilopts(lpatt &gt; parliament</pre>	, ylabels(0 25 ern(dot)) ytit ")	50 75 100) le("Percent	recast( age of w	line) reca yomen in	astci(rline)	
Variables t . saveold fin (saving in St (FYI, saveold Stata formats file final1.d end of do-fil	hat uniquely i all.dta, repla ata 13 format) has options v ) ta saved e	dentify mar ce ersion(12)	and vers	emparl	hat write fil	es in older
. log close name: log: log type: closed on:	<unnamed> C:\Users\andre text 12 May 2020, 1</unnamed>	\Documents\ 6:17:42	\9.Pip\Di	ssertatio	n\final1.log	

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