# Gender Gaps in Policy Making: Evidence from Direct Democracy in Switzerland 

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## 1. Introduction

An old claim states that if women ruled the world, it would be a better place. Apart from rare evidence from certain matrilineal and patriarchal societies (Andersen et al., 2008; Gneezy, Leonard and List, 2009), the substance of this claim is difficult to assess.
One reason is that women are under-represented in most legislatures around the world (see e.g. Norris and Krook, 2011 for evidence). On average, only one in five members of national parliaments is a woman. The situation is even more dismal at the top of national governments: only 20 out of 180 of the world's 180 heads of state are women (The Economist, 2012). As a result, women's voices are more likely to go unheard than those of men.

In response, gender quotas have been increasingly debated in the public and among politicians as a means to raise the share of women among policy-makers (for example, Norris and Krook, 2011). A few countries in Europe have indeed implemented gender quotas for candidates in parliamentary elections: Belgium, Ireland, Poland, Slovakia, Greece and France, for examples (see the Global Database of Quotas for Women at http://www.quotaproject.org). And a number of European countries have adopted voluntary quotas for women in selected political parties (for example, the United Kingdom, the Netherlands, Norway, Sweden, Italy, Germany, Hungary or the Czech Republic). While quotas have improved female representation (see De Paola, Scoppa and Lombardo, 2010, for Italy; Bagues and Esteve-Volart, 2012, for Spain), little is known today whether quotas have any effects on policy-making (one exception being Chattopadhyay and Duflo, 2004).
Taking a step back from the debate about gender quotas and why women are still under-represented in politics, the broader question arises whether and where women and men prefer different policies. The more aligned women and men's preferences in a specific area, the smaller the expected effect from legal intervention. While preferences expressed in surveys such as the Eurobarometer or the International Social Survey Programme (ISSP) are informative to a certain degree, the major drawback is that survey respondents have little incentive to think hard about the questions at hand, as there are no real consequences involved (e.g. Brunner, Ross and Washington, 2011).

This article analyzes gender gaps for policies in a setting where every citizen is a potential policy maker. The context is Switzerland, one of the oldest democracies in the world. Swiss citizens make political decisions at the
ballot on a broad range of policy issues. Citizens decide on a number of ballots up to four times each year, which makes Switzerland the world leader in the use of direct democracy. Over the last fifty years, more than 300 ballots votes have been held at the federal level alone.

In our setting, citizens vote on specific projects with real political and financial consequences. Citizens have long experience in voting on ballot proposals as there is a long tradition of direct democratic participation at the state and local level as well. Furthermore, each citizen receives detailed information about each ballot (including the implied fiscal consequences if a ballot is approved) by mail before the vote.
Incentives for strategic behavior are basically absent as a ballot requires a simple 'yes' or 'no' vote. We can therefore identify gender differences in policy preferences as revealed at the ballot box. Our preference measures have two main advantages over survey questions on desired policies (as asked in the Eurobarometer, for example). First, citizens make a policy-relevant choice, and therefore are more likely to acquire information on the topic. Second, ballot votes (if approved) involve taxpayers' money, and the documents distributed prior to the vote clearly indicate the implied fiscal consequences. Therefore, our data allow us to study whether gender gaps persist even if that involves an increase in federal expenditures.

Many of the ballot proposals we study, like social policies or environmental protection, are currently hotly debated in advanced democracies. Governments in many countries with aging populations, for example, consider an increase in the retirement age. We find that women are much less sympathetic towards such policies.

Further, women show consistently higher approval rates for allocating funds to environmental protection than men. At the same time, women are less supportive of nuclear energy. We also find that women are more in favour of a healthy life style, for equal rights for men and women, for support of the disabled but against the military. In sum, we find that women clearly prefer different policies than men. Since we control for the most important socio-demographics (such as age, education or income), gender differences in these variables are not driving our results. ${ }^{1}$
The data for our analysis come from surveys which are held shortly after the federal ballots. Starting in 1981, representative samples of roughly 1,000 eligible voters are asked whether, and if so, how they voted. Unlike other surveys, survey accuracy is perfectly measurable in our case, as we observe stated approval in the surveys and actual approval from official ballot statistics. We show that biases in our surveys are unlikely to cause the gender gaps we find. In addition, the survey also collects a broad range of socio-economic characteristics, which allows us to compare women and men with a similar socio-demographic background.

The data also allow us to investigate the financial consequences of women's political choices. To do so, we restrict the analysis to the sample of federal votes that would have raised government spending, taxes or debt - if approved. Overall, we find that women are only modestly more inclined to approve projects that increase the size of government. Compared to men, they were 2.5 percentage points more likely to approve costly policy proposals. More importantly, women prefer a very different composition of government expenditures than men. Women were 10 percentage points more likely to support spending for protection of the environment and 6 percentage points less likely to support spending on military.
The most immediate lesson that we can learn from our analysis is that women as policy makers, deciding on actual policy proposals with financial consequences, choose different policies than men. This suggests that gender quotas - by lifting the share of women in politics - would lead to better representation of female preferences in certain policy areas like the environment or military spending.

The rest of this article is structured as follows. Section 2 relates our article to the previous literature in economics and political science. Section 3 introduces the Swiss political context and describes our data. Section 4

[^0]analyses the gender gaps in voting and section 5 sheds light on the fiscal consequences of female policy makers. Conclusions are presented in section 6.

## 2. Relation to Literature on Women in Policy-Making

Our article is related to several literatures in economics and political science. First, our study enhances our understanding of gender gaps in preferences. By studying individual voting decisions on all relevant policy areas of an advanced democracy, our study is complementary to experimental evidence (see the survey by Croson and Gneezy, 2008) or studies based on hypothetical questions in surveys (e.g. Bertrand, 2010 for a comprehensive survey of the literature). One advantage of our direct democratic setting is that we can elicit gender gaps as revealed at the ballot box. Some of our evidence is also in line with earlier studies, for example, that women are more supportive of redistributive policies (e.g. for the disabled) than men (e.g. Luttmer and Singhal, 2011; Alesina and Giuliano, 2011).
Second, our article relates to research in political science on the electoral gender gap (see e.g. Inglehart and Norris, 2003; Inglehart and Norris, 2005; Edlund and Pande, 2002). Here, the focus is on party votes and the characterization of gender gaps along a single, right-left dimension. We add to this literature by analysing gender gaps on a variety of issues. Other studies have tried to elicit gender gaps in policy preferences from opinion polls like the General Social Survey, the Gallup or National Election Surveys (see e.g. Shapiro and Mahajan, 1986; Mueller 1988). ${ }^{2}$ While these studies are suggestive, the questions asked are often fairly general and typically do not involve decisions about concrete projects and how they would be financed.

We compare the gender gaps in our ballot propositions to gender gaps in survey questions on public spending in the International Social Survey Programme (ISSP), whose questions are the most comparable to our ballots. There respondents were asked whether they would like to spend much more, more, not more nor less, less or much less on several policy areas (the environment, military, health etc.). We find few and statistically weak gender gaps in the ISSP data. We conclude from this comparison that it is difficult to elicit actual policy preferences from stated attitudes to very general questions which likely introduce substantial measurement error into the analysis. In addition, survey questions do not specify the specific fiscal costs of a different policy. In our direct democratic setting in Switzerland, however, citizens face very concrete proposals with real consequences, and consider the direct implications for the tax bill as well.
Third, our paper is relevant for the literature on female policy makers. So far, most causal evidence on the impact of female policy makers is available for India, where women are found to affect policies according to their preferences (Chattopadhyay and Duflo, 2004; Clots-Figueras, 2011; 2012). Based on imposed mandates for female village leaders in India, Chattopadhyay and Duflo (2004), for example, show that women allocate resources to projects supporting women's needs, for example, public investments in fresh drinking water.
For the developed world, Rehavi (2007) finds that increasing representation of women in the United States led to a modest increase in health and correction institution spending. In contrast, Gagliarducci and Paserman (2012) and Ferreira and Gyourko (2011) find no consistent effects of female mayors on local spending in Italy and the United States, respectively.

These mixed results on the role of female policy makers in mature democracies beg for an explanation. One reason could be that politicians are bound by party discipline, or that post-electoral bargaining makes gender gaps disappear. ${ }^{3}$ A second explanation could be that policy preferences between men and women do not differ even in

[^1]the voting population as a whole. This paper casts doubts on the second explanation, as we find sizeable gender differences in preferences for a variety of policy areas. Therefore, the lack of impact of female policy makers in certain settings is unlikely to be caused by similar preferences in the voting population at large. Rather, it may be related to the competitive selection process of policy makers, and/or the limited power after election, e.g. due to party pressure.
Finally, we shed light on the debate whether political involvement of women increases the size of government. While for the United States, women's suffrage might have increased state level spending (Lott and Kenny, 1999; Miller, 2008, reports an insignificant estimate), results for Europe are mixed (Aidt, Duta and Loukoianova, 2006; Aidt and Dallal, 2008; Bertocchi, 2011). In contrast to these aggregate studies, we rely on individual data on actual policy choices. Our results support the view that inclusion of female preferences in the political decision making process has small effects on total spending.

## 3. Data on Voting Behaviour in Federal Propositions

To analyse differences in policy choices between men and women, we make use of the fact that Switzerland has wide-ranging possibilities for direct democratic participation. We focus in this study on the political decisions of citizens at the federal level. National-level policies span a broad range of political decisions including important decisions on the military and foreign policy which can typically not be studied using state-level data.

In Switzerland, citizens can propose an initiative for a partial or total revision of the federal constitution. If 50,000 signatures are collected, citizens can also request a referendum about each law proposed by the federal government. Furthermore, a referendum is mandatory for any changes to the constitution and all international treaties Switzerland wants to ratify. As a consequence, citizens vote on federal ballots several times each year.

In Switzerland, every person older than 18 is allowed to vote (before March 1991, the minimum age was 20). No registration is necessary, and every eligible person automatically receives the official documents to vote which includes detailed information on the ballot to be decided. Specifically, the information package of the federal government contains the arguments for and against the proposition, a printed version of the parliamentary debate (if any) and often outside opinions by interest groups. Most importantly, the distributed documents contain the estimated financial consequences, i.e. whether and by how much expenditures or taxes would increase if the proposition was approved.

Hence, Swiss citizens have easy access to information about the ballots both through the distributed documents and discussions in the media. In our data, 78 percent of voters report that they were well informed about the ballot prior to the vote. Furthermore, they have practiced their direct democratic participation rights for more than a century at the federal level and even longer in many states ('cantons'). We therefore believe that the electorate is able to make informed choices about the proposed ballots.

The data we use for our analysis of federal ballots are taken from the VOX surveys, which are conducted by telephone shortly after each vote (for more information on the data source, see http://www.gfsbern.ch). Overall, we have data for 185 of the 202 federal propositions held between 1981 and 2003.
The survey collects data on voting behavior for a representative sample of 1,000 (before 1987, 700) Swiss citizens. The survey asks about the voting decision in the last federal ballot and whether the respondent was informed about the propositions. It also collects information on general political attitudes and party preferences as well as the respondent's demographic and economic situation.

Since we are interested in comparing choices of female and male voters, we dropped all respondents under the age of twenty, who were not eligible to vote until March of 1991, and under eighteen thereafter. Even though earlier surveys also ask non-voters about their preferred voting outcome, we focus in the main analysis on actual

[^2]voters. Arguably, the politically active population is the most relevant for understanding the consequences if more women enter politics, especially in countries other than Switzerland. In the appendix, we show that gender gaps are similar for the broader sample of Swiss citizens.

Our data have a number of advantages over previously employed surveys: first, we use information on voting behavior with real political and financial consequences. Since every eligible voter receives detailed information about these consequences before each vote, we consider the voting decisions as a more reliable indicator of policy preferences than hypothetical questions from opinion polls. In addition, the policy choices are representative for the electorate as a whole since individuals in all cantons vote on the same proposition. Second, the votes cover a wide range of political issues, such as health policy, changes in unemployment insurance, new environmental policies, subsidies for agriculture or membership in international organizations. While the set of issues decided at the ballot box does not coincide with the set of decisions taken by members of parliament, the political choices are very similar.
Table 1 reports summary statistics of the survey data separately for men and women over the period from 1981 to 2003. With the exception of household income and number of children, all variables are available for the 185 votes.

## --- insert Table 1 about here ---

Table 1 reflects the more traditional position of women in Swiss society: women are on average less educated than men and have lower income available to them. The female labour force participation rate is low compared to the United States as is the fraction of divorced people. Women in the sample are also more likely to live in urban areas and in the French- and Italian-speaking cantons of Switzerland. Finally, female turnout at the ballot box is also slightly lower than for men. Over the whole sample, male turnout is 62 percent, and female turnout is 54 percent. The gender gap in turnout seems to be slightly decreasing over time.

## 4. Gender Gaps at the Ballot Box

We first show the votes with the largest gender differences in approval in the 185 votes held between 1981 and 2003 in Table 2. The Appendix briefly describes the main goals and fiscal implications of the ten votes.
Women were 18 percentage points more likely to support an initiative for a reduction in tobacco consumption. More generally, women are much more supportive of votes to promote a healthy. Not surprisingly, women were also more likely to support votes for the equal representation of women in the federal government and a reform of marital law that stresses equal rights and responsibilities of husband and wife. In addition, women were more supportive of anti-discrimination policies, the protection of the environment and government subsidies for the disabled. On the other hand, they oppose the use of nuclear energy.

On specific policies then, women voted quite differently than men. Is this result real or just the consequence of non-response or reporting bias in the VOX surveys? If untruthful reporting or selective response (on the part of men, women, or both) was a problem, one should see a discrepancy between survey and real approval rates. ${ }^{4}$ In contrast to other surveys, we can directly measure non-response or reporting bias by comparing the average approval of voters in the survey with the official result of the ballot.

For seven votes shown in Table 2, the difference between stated approval in the survey and the official result is only 1.7 percentage points on average and statistically insignificant. Three votes have a statistically different approval in the survey compared to the ballot box. Citizen support in the survey is significantly higher compared

[^3]to approval rates at the ballot box in the two policy areas environmental protection and gender equality (the difference is 7 percentage points for the vote "Protection of Rivers and Lakes", 10 percentage point for the vote "For a car free Sunday" and 12 percentage point for the vote "Change in marital law"). However, the gender gaps in preferences are much larger than the survey bias, which strongly suggests that women indeed prefer different policies than men.

## --- insert Table 2 about here ---

Table 2 is restricted to voters who have made actual choices at the ballot and are therefore well informed about the subject at hand. Yet, we find very similar gender gaps if we add non-voters to our sample (the VOX analysis asks non-voters how they would have voted in the ballot). There are two exceptions: for the votes directly related to gender (change in marital law; equal rights of men and women), the gender gaps among the voters are larger than for the average population ( $17 \%$ vs. $7 \%$ and $14.5 \%$ vs. $7 \%$ ). The reason is a combination of unusually high turnout of women and a higher representation of more extreme preferences among voters.

While suggestive, our summary statistics also show that women in the sample differ along other observable dimensions from men, for example, they are more likely to live in urban areas and have less income. To control for such possible confounding factors, we now turn to a more systematic analysis of political gender gaps.
In what follows, we focus on eleven main policy areas: two areas are state affairs (international relations and legal provisions on direct democracy and gender), four areas cover public goods (environment, transportation, defense and culture), two cover the public provision of a private good (education, health), and three areas are about transfers and redistribution (agricultural subsidies, social security provisions and subsidies for housing). To classify the federal ballot propositions into the eleven policy areas, we used the title and description of the vote. We focused on policy areas that seemed interesting beyond the Swiss setting and classified 87 (out of 185) votes. To make this selection as transparent as possible, Appendix Table 1 lists all the 185 votes (title, gender gap and year of the vote), together with information on whether the vote was falling into one of the eleven policy areas or not. If classified, the table also shows the policy area it belongs to. As can be seen from this Appendix table, there are nine votes on environmental protection ranging from the introduction of car-free Sundays to subsidizing solar energy with governmental funds.
A vote of yes might not reflect support for a certain policy. Therefore, we code votes within each policy area such that 'yes' always implies a preference for more (or less) of a policy. For example, all votes on agricultural policy are coded such that a vote of 'yes' implies supporting a reduction in agricultural subsidies.
Our statistical analysis then relates the support for more (or less) of a policy in a ballot to the respondent's gender, controlling for age, education, marital status, house ownership, employment, religion and residential type (urban versus non-urban). Furthermore, we control for the region of residence (by including canton fixed effects) and to adjust for the fact that some ballots receive more overall support than others (by including ballot-fixed effects).
Table 3 reports the effects of gender on the voting decision in each policy area. As can be seen from Table 3 first page, women are more immigration friendly than men, are more likely to support projects protecting the environment, but are against nuclear energy or the military. Women also have a 22 percentage point higher probability than men to approve measures towards gender equality. From Table 3 second page we can see that there are gender differences in supporting a healthy life style (women are 16.3 percentage points more likely to approve measures targeting at reducing tobacco and alcohol consumption) and the use of gen-technology and animal testing. In the area of social security, women support a decrease in the retirement age more than men. Last, women are relatively more supportive of the disabled and in favour of a longer maternity leave. After listing the policies where women and men's preferences differ, we also would like to mention some policy areas (e.g. transport, direct democracy, education, the regulation of leisure) with no gender differences.

To what extent could these gender differences be driven by reporting bias? As shown in Funk (2012), surveys are inaccurate especially in policy areas with a predominant politically correct view (race and gender). For the votes on gender equality, it could therefore be that reporting and non-response bias potentially differ between women and men and partly account for the observed gender differences in the survey. However, as can be seen from Appendix Table 2, gender differences persist when restricting the sample to the votes with no survey bias. ${ }^{5}$ Therefore, the gender gaps discovered in the areas of environment, the military, healthy life-style or regarding the age of retirement seem to be genuine preference differences between women and men. For the policies in the area of immigration and support for the disabled, such a statement is more difficult as there are no votes without survey bias. Nevertheless, there is no strong a priori reason as for why biases in the area of immigration should differ across gender. Concerning the disabled, it may be that women feel more pressured to appear caring due to underlying social norms, and this may partly explain the gender gap in this vote.
So far, we have used house ownership as a proxy for income (as income is only available in the later votes). However, since women have lower income on average, this may affect their preferences for redistribution (Meltzer and Richard, 1981; Lott and Kenny, 1999), or potentially also their demand for environmental protection. Table 4 re-investigates the estimated gender gaps, while controlling more rigorously for potential income differences between women and men.

## --- insert Table 4 about here ---

Table 4 first row re-restimates previous baseline regressions (underlying Table 3) for the sample of votes where household income had been asked for in the surveys. The second row adds dummies for each educational category (instead of only a dummy university education) and the third row adds household income. Interestingly, for the policy areas immigration and environment, the gender gaps get even larger. Otherwise, it is notable that whenever gender gaps are statistically significant in the baseline (at the 5 percent level), they remain so when controlling for income. As such, income differences are certainly not the cause behind the observed gender gaps. As a last check, we analyze gender gaps for a subgroup of the population, where income is comparable for women and men: the married respondents. Again, the largest gender gaps discovered earlier prevail.

While we focus on the voters in the main analysis, it would be interesting to know whether the gender gaps are also present for the non-voters. Unfortunately, non-voters were asked how they would have voted only in the earlier votes (before 2000). Comparing women's and men's approval for these early votes - separately for voters and nonvoters - it can be seen that gender gaps in the policy areas environment, nuclear energy, healthy life-style, gentechnology and the military are present for both subgroups (see Appendix Table 3). One important difference between voters and non-voters concerns the policy area "equal rights for women and men": there, large gender differences are found in the voting population, but not in the non-voting population. Plausibly, citizens with extreme preferences made their way to the polls.

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## 5. The Fiscal Consequences of Women as Policy Makers

So far, we analysed gender gaps in approval rates for proposed policies independently of their fiscal consequences. Suppose however, that women are fiscally more conservative than men. Then, they may not favour costly projects for environmental protection even though they may care more about it than men.
We next analyse whether women and men differ in how they like to allocate government resources. To analyse the fiscal preferences of men and women, we selected a subset of ballots that would have unambiguously increased or decreased government spending.
In order to assess the fiscal impact of each proposition, we used the official documents prepared by the government, which outline the estimated financial consequences, i.e. whether and by how much spending would increase if the proposition was approved by the electorate. After careful study, we identified 71 (of the 202) propositions between 1981 and 2003 where the documents showed unambiguous financial consequences.
Appendix Table 4 contains a detailed list of these votes. Note that the set of propositions we analyse contains both ballots that were approved and therefore affected actual government spending as well as ballots that were not approved. As a consequence, we have a representative set of actual political decisions and their financial consequences, which is not affected by the ballot's actual success.
The model we estimate is the same as in the last section except that we now use only the subset of votes with predictable financial consequences. Our dependent variable is whether a voter supports a ballot that would increase government spending if approved. If the ballot proposed a reduction of spending, taxes, subsidies or debt, we rescaled the voting choice as one if the respondent voted against the ballot and zero if the voter approved a reduction in government spending in that area.

Table 5 displays the results for overall government spending as well as spending in seven different policy areas (education, health, welfare, environment and nuclear policy, defense spending, transportation and agricultural policy). ${ }^{6}$ The first column shows that women are 2.5 percentage points more likely to support projects that would increase overall government spending. They are also 3.1 percentage points less likely to support a reduction of government debt though the coefficient is not significantly different from zero. Therefore, men and women do not differ much overall in their support for costly projects.
However, the picture is different if we look at individual policy areas. Here, we find that women are 10 percentage points more likely to favour spending for environmental protection. At the same time, they are also 6 percentage points less likely to support agricultural or military spending. In addition, they are also more supportive of health and welfare spending than men. As such, women and men have very different preferences for the composition of government spending.

## --- insert Table 5 about here ---

An interesting exercise would be to compare our estimates with results obtained from the most similar survey using hypothetical questions.

As it turns out, the International Social Survey Programme (ISSP) wave six ("Role of Government", 1996) asks the following question, which is in the spirit of our last analysis on government spending: "There are various areas of government spending. Please tell me for each of them whether you would like to see more or less government spending in each area. Remember that if you say "much more", it might require a tax increase to pay for it." Surveyed subjects are all older than 18, which correspond precisely to the surveyed individuals in the VOX-samples. We could match the following policy areas: the environment, health, education, the military and defense and unemployment benefits. We then run regressions using as dependent variable an indicator equal to

[^5]one if a person says: much more or more spending; the variable is zero otherwise. As independent variables, we include the gender dummy and the same control variables we use in our analysis of the ballot data.
Table 6 reveals few gender gaps in the ISSP survey; apart from the policy areas defense and health, the size of the estimated coefficients are small (note e.g. the stark contrast to the VOX results on environmental spending). As such, hypothetical survey questions may not be well suited to identify gender gaps in policy preferences, either because survey respondents have little incentives to think seriously about the subject, or because the survey questions remain too vague on how the additional spending would be actually financed.

## --- insert Table 6 about here ---

Given that we do not find large gender gaps for total spending, can we conclude that women are then only marginally more inclined to accept costly projects than men? Since Lott and Kenny's (1999) influential article on women suffrage and the size of government, there has been a vivid debate on whether political involvement of women increases government spending or not. Other evidence suggests in contrast, that women are more in favour of a balanced budget than men (Shapiro and Mahajan, 1986; see also Krogstrup and Wälti, 2011).

Our data allow us to analyse directly whether women, at the ballot box, say more frequently yes than men to projects that increase government spending. ${ }^{7}$ As mentioned before, the gender gap in approval of costly projects at the ballot box is a mere 2.5 percentage point. Note further that actual spending is only affected by women's political participation if the proposition is approved by the voters and women changed the final outcome, i.e. they proved to be pivotal. Among all federal ballots between 1981 and 2003, women and men had approved different outcomes in fifteen votes (see Table 7). Women changed the result in their favour in only four cases or about two percent of the 202 propositions over that period. From these four pivotal votes, only two had clear-cut fiscal implications.

Based on the information provided by the federal government before the vote, we can get a rough estimate of the consequences of these two fiscally relevant votes. Women's opposition to a reduction in unemployment benefits increased federal spending by about 70 million Swiss Francs per year. However, women were also in favour of abolishing subsidies for parking spaces, which saved the federal government about 20 million Swiss Francs per year. Relative to the 46 billion federal expenditures in 1999, the change in voting outcomes by women adds up to a mere 0.1 percent increase in federal spending.
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## 6. Policy Implications and Conclusion

This paper identifies gender gaps in policy preferences as revealed at the ballot box. We focus on Switzerland, where citizens regularly decide on all relevant issues due to extensive direct democratic rights.
We find strong evidence that women and men support a different allocation of government resources. In particular, we show that female voters care more about the environment, public health, social welfare and are more skeptical towards nuclear energy or the military. If we focus on the fiscal consequences of women expressing their preferences in ballots, we find that gender gaps in approval of costly projects are quite large in specific policy areas (10 percentage point difference in approval of environmental projects), but comparatively small ( 2.5 percentage points) when it comes to the overall size of government.
${ }^{7}$ It is possible however, that women might have influence spending through at least two other channels: first, the composition of the parliament by electing different representatives or different parties. Second, women can also affect policies directly by proposing initiatives that support their policies.

Knowing that women prefer different policies than men, is there a role for legal intervention? At first sight, one could argue that independent of legislator's gender, electoral competition ensures implementation of the median voters' preferences and as such, women's preferences get adequately represented in purely representative democracies as well. However, recent research suggests a role for legislators’ identity in policymaking (e.g. Washington, 2008), and a legislator's gender may then matter. This result then raises the issue how many female legislators are needed to get an adequate representation of women's preferences. Traditionally, the number of female legislators has been low; as mentioned in the introduction, only one out of five representatives in national parliaments is a woman. If a low share of female legislators reflects voter preferences (e.g. a preference for male legislators) or women have a high disutility from running as candidates, it is not obvious why a gender quota is needed.

Yet, latest research on the reasons for the low share of female legislators in Spain reaches a very different conclusion. The study finds that women are willing to run as candidates; furthermore, voters are no more likely to dislike female legislators than male legislators. The empirical evidence suggests instead that male party members discriminate against women by either not putting them on the lists, or by putting them in disadvantaged positions on those lists - even if this is suboptimal for the party's electoral outcome (Casas-Arce and Saiz, 2011). If such discriminatory practices by male party members prevail in other countries and settings as well, a well-designed gender quota could improve the representation of women's preferences in the political arena.

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## Appendix: Description of the votes with the largest gender gaps

1. Reduction Tobacco Consumption (Initiative)

Vote held November 28, 1993; Vote Nr. 404; Turnout: 45.5\%; Share-Yes: 25.5\%
Goal Initiative: To prohibit advertisement for tobacco. To use $1 \%$ of the revenues from taxing tobacco to educate about the health consequences of tobacco consumption.
2. Equal Representation of Women in Federal Government (Initiative)

Vote held March 12, 2000; Vote Nr. 461; Turnout: 42.2\%; Share-Yes: 18\%
Goal Initiative: Adjust the stuffing policy of the federal government to guarantee equal chances for men and women. No direct financial consequences indicated.

## 3. Change in Marital Law (Referendum)

Vote held September 22, 1985; Vote Nr. 336; Turnout: 41.1\%; Share-Yes: 54.7\%
Goal Law: Change the marital law to explicitly state that husbands and wives have equal rights and obligations.
Housework and childcare are considered as a fulltime contribution to the family maintenance.
No financial consequences indicated.
4. Against Racial Discrimination (Referendum)

Vote held September 25, 1994; Vote Nr. 414; Turnout: 45.9\%; Share-Yes: 54.6\%
Goal Law: Change of the Law (Civil law and Military law) to prosecute persons who engage actively in promoting discrimination based on race, ethnicity, or religion. No financial consequences indicated.
5. Against Subsidies for Corn Production (Referendum)

Vote held September 25, 1994; Vote Nr. 413; Turnout: 45.5\%; Share-Yes: 64.6\%
Goal Federal Resolution: To reduce the subsidies for corn production. Initially, the government bought corn from the Swiss corn produces at higher (than market) prices to maintain a high level of domestic production for situations of crises like wars. To the mills, the government sold at (cheaper) foreign prices, which involved substantial costs.
6. Reduction of Alcohol Consumption (Initiative)

Vote held November 28, 1993; Vote Nr. 403; Turnout: 45.5\%; Share-Yes: 25.3\%
Goal Initiative: Prohibit Advertisement for Alcohol. Fiscal Consequences: Higher taxes on alcohol.
7. Protection of Rivers and Lakes (Initiative)

Vote held Mai 17, 1992; Vote Nr. 381; Turnout: 39.2\%; Share-Yes: 37.1\%
Goal Initiative: Protection of rivers and lakes, major objectives are the following: to protect human beings and animals, to secure the portable water supply, to protect the living space for flora and fauna, and to secure the water supply for agricultural purposes.
Financial consequences, as indicated in the election documents: Once the law comes into effect (1992), the average costs for the government will be around 100 million SF per year ( 170 million Swiss Francs in the beginning, 40 million Swiss Francs after that)
8. For a Car free Sunday per Quarter (Initiative)

Vote held Mai 18, 2003; Vote Nr. 498; Turnout: 49.8\%; Share-Yes: 37.6\%
Goal Initiative: For the next four years, there should be one Sunday per season where private motorized vehicles are only permitted in exceptional circumstances (e.g. ambulances).
9. For Abandoning Nuclear Energy (Initiative)

Vote held September 23, 1990; Vote Nr. 365; Turnout: 40.4\%; Share-Yes: 47.1\%
Goal Initiative: No further implementation of nuclear plants No fiscal major fiscal implications, potentially an increase unemployment in the nuclear sector.
10. For Equal Rights of the Disabled (Initiative)

Vote held Mai 18, 2003; Vote Nr. 500; Turnout: 49.7\%; Share-Yes: 37.7\%
Goal Initiative: Equal rights for disabled people and abolishment of any sort of existing discrimination. Furthermore, where financially feasible, the entrances of public buildings and facilities should be made handicapped accessible.
Fiscal consequences in case of acceptance: Costs for reconstruction and renovation (2-4 million Swiss Francs, 10 million Swiss Frances for the reconstruction of universities; further costs for other infrastructure possible).

Table 1: Summary Statistics

|  | Women |  | Men |  | T Statistic |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Mean | Std. Dev | Mean | Std. Dev | Difference |
|  |  |  |  |  |  |
| Demographics | 48.39 | 16.38 | 49.98 | 17.41 | 14.92 |
| Age | 0.47 | 0.50 | 0.47 | 0.50 | -1.08 |
| Protestant | 0.41 | 0.49 | 0.33 | 0.47 | -13.74 |
| Have Kids | 0.19 | 0.39 | 0.23 | 0.42 | 15.57 |
| Single | 0.66 | 0.47 | 0.71 | 0.45 | 16.14 |
| Married | 0.05 | 0.21 | 0.03 | 0.17 | -12.02 |
| Divorced |  |  |  |  |  |
|  |  |  |  |  |  |
| Education, Work and Income | 0.19 | 0.40 | 0.10 | 0.30 | -44.52 |
| Compulsory Education | 0.74 | 0.44 | 0.77 | 0.42 | 13.54 |
| Apprentice/Spec Schools | 0.07 | 0.26 | 0.13 | 0.34 | 31.86 |
| University Education | 0.51 | 0.50 | 0.69 | 0.46 | 57.72 |
| Employed | 1.76 | 0.82 | 2.21 | 1.06 | 13.34 |
| Income | 0.46 | 0.50 | 0.50 | 0.50 | 9.88 |
| House Ownership |  |  |  |  |  |
|  |  |  |  |  |  |
| Knowledge Vote | 0.74 | 0.44 | 0.82 | 0.39 | 37.90 |
| Well Informed about Vote |  |  |  |  |  |
|  | 0.66 | 0.47 | 0.64 | 0.48 | -6.77 |
| Region of Residence | 0.26 | 0.44 | 0.24 | 0.43 | -4.53 |
| Urban |  |  |  |  |  |
| French-Italian-Speaking Canton | 0.54 | 0.50 | 0.62 | 0.48 | 32.72 |
| Political Participation | 0.54 | 0.50 | 0.64 | 0.48 | 25.98 |
| Turnout: 1984-2003 | 0.54 | 0.50 | 0.61 | 0.49 | 20.79 |
| Turnout 80's (1984-1993) |  |  |  |  |  |
| Turnout 90's (1994-2003) |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Notes: The summary statistics are shown for the sample of voters (except for political participation). Age is measured in years, while protestant is a binary indicator. The existence of children is also measured by a binary indicator. Single, married and divorced are binary indicators describing the civil status of the respondent. Education is a binary indicator for the highest degree of a person either from compulsary school, vocational school or technical college/university. Employment is a binary indicator equal to one if the person is employed and zero if she is non- or unemployed. Income measures household income in 5 income classes. House ownership is a binary variable equal to one if the household owns a house and zero otherwise. Well informed is equal to 1 if the respondent could correctly answer questions about the respective ballot. Both urban residence and the dominant language in the canton of residence are binary indicators. The last column shows the T-test statistic for differences in means between men and women.
Source: VOX surveys, 1981-2003.

Table 2: Federal Propositions with the Largest Gender Gap

| Title of Proposition | Vote <br> Number | Year of Vote | Gender Gap <br> $(\%)$ |
| :--- | :---: | :---: | :---: |
| Reduction of Tobacco Consumption |  |  |  |
| Equal Representation of Women in Federal Government | 404 | 1993 | 17.7 |
| Change in Marital Law | 461 | 2000 | 17.5 |
| Against Racial Discrimination | 336 | 1985 | 17.0 |
| Against Subsidies for Corn Production | 414 | 1994 | 16.8 |
| Reduction of Alcohol Consumption | 413 | 1994 | 15.6 |
| For Protection of Rivers and Lakes | 403 | 1993 | 15.5 |
| For a Car Free Sunday per Quarter | 381 | 1992 | 15.3 |
| For Abandoning Nuclear Energy | 498 | 2003 | 14.9 |
| For Equal Rights of the Disabled | 365 | 1990 | 14.7 |
|  | 500 | 2003 | 14.6 |
| "otes: The second column reports the officicial number of the vote and the third column the year the vote was held. The last column shows the |  |  |  |
| gender gap, the percentage of women approving the proposition minus the percentage of men. Positive numbers imply that women were more |  |  |  |
| supportive of the proposition than men. |  |  |  |
| Source: Vox Surveys, 1981-2003, Sample of Voters. |  |  |  |

## Table 3: Voting Behavior of Men and Women

|  | International Affairs |  |  | $\begin{aligned} & \hline \hline \text { Military } \\ & \text { Less } \\ & \text { Military } \end{aligned}$ | Environment |  | Transport |  |  |  |  | Agriculture |  | Legal |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro Joining International Organizations | Against Foreign Immigration | Pro <br> Foreign Immigration |  | $\begin{aligned} & \text { Protection } \\ & \text { of the } \\ & \text { Environmen } \\ & \hline \end{aligned}$ | Against Nuclear Energy | Against further Road Construction | Pro Speed Limits | Against Speed Limits | Against Subsidies Parking | Pro <br> Public <br> Transport | Against Subsidies Agriculture | Pro Liberalizing Agriculture | Equal Rights Women and Men | More <br> Direct Democracy |
| Female Dummy | $\begin{gathered} 0.0120 \\ (0.0211) \end{gathered}$ | $\begin{gathered} -0.0905^{* * *} \\ (0.0309) \end{gathered}$ | $\begin{aligned} & 0.0875^{* *} \\ & (0.0420) \end{aligned}$ | $\begin{aligned} & 0.0494^{\star \star} \\ & (0.0248) \end{aligned}$ | $\begin{aligned} & 0.0769^{* * *} \\ & (0.0158) \end{aligned}$ | $\begin{aligned} & 0.107^{* * *} \\ & (0.0219) \end{aligned}$ | $\begin{gathered} 0.0294 \\ (0.0240) \end{gathered}$ | $\begin{gathered} 0.0550^{*} \\ (0.0325) \end{gathered}$ | $\begin{gathered} -0.0670 \\ (0.0495) \end{gathered}$ | $\begin{gathered} 0.0863 \\ (0.0804) \end{gathered}$ | $\begin{aligned} & 0.00169 \\ & (0.0276) \end{aligned}$ | $\begin{aligned} & 0.114^{* * *} \\ & (0.0378) \end{aligned}$ | $\begin{gathered} -0.0112 \\ (0.0274) \end{gathered}$ | $\begin{aligned} & 0.220^{* * *} \\ & (0.0385) \end{aligned}$ | $\begin{gathered} 0.0337 \\ (0.0295) \end{gathered}$ |
| University Education | $\begin{aligned} & 0.209^{* * *} \\ & (0.0336) \end{aligned}$ | $\begin{aligned} & -0.218^{* * *} \\ & (0.0357) \end{aligned}$ | $\begin{aligned} & 0.361^{* * *} \\ & (0.0257) \end{aligned}$ | $\begin{aligned} & 0.125^{* * *} \\ & (0.0399) \end{aligned}$ | $\begin{aligned} & 0.129^{* * *} \\ & (0.0243) \end{aligned}$ | $\begin{aligned} & 0.0627^{*} \\ & (0.0362) \end{aligned}$ | $\begin{aligned} & 0.0726^{*} \\ & (0.0401) \end{aligned}$ | $\begin{gathered} 0.0905 \\ (0.0590) \end{gathered}$ | $\begin{gathered} -0.0635 \\ (0.0797) \end{gathered}$ | $\begin{gathered} 0.174 \\ (0.115) \end{gathered}$ | $\begin{aligned} & 0.153^{* * *} \\ & (0.0389) \end{aligned}$ | $\begin{aligned} & 0.185^{* * *} \\ & (0.0628) \end{aligned}$ | $\begin{gathered} -0.0272 \\ (0.0437) \end{gathered}$ | $\begin{gathered} 0.114^{*} \\ (0.0638) \end{gathered}$ | $\begin{gathered} -0.0334 \\ (0.0424) \end{gathered}$ |
| Married | $\begin{gathered} 0.0214 \\ (0.0224) \end{gathered}$ | $\begin{gathered} -0.0128 \\ (0.0346) \end{gathered}$ | $\begin{gathered} -0.0671 \\ (0.0458) \end{gathered}$ | $\begin{gathered} -0.0211 \\ (0.0268) \end{gathered}$ | $\begin{aligned} & -0.0104 \\ & (0.0172) \end{aligned}$ | $\begin{gathered} -0.0164 \\ (0.0238) \end{gathered}$ | $\begin{gathered} -0.152^{\star \star \star} \\ (0.0263) \end{gathered}$ | $\begin{aligned} & 0.00943 \\ & (0.0333) \end{aligned}$ | $\begin{gathered} 0.0235 \\ (0.0533) \end{gathered}$ | $\begin{gathered} -0.154^{\star} \\ (0.0928) \end{gathered}$ | $\begin{gathered} 0.0223 \\ (0.0301) \end{gathered}$ | $\begin{gathered} -0.0230 \\ (0.0431) \end{gathered}$ | $\begin{aligned} & 0.0834^{* * *} \\ & (0.0305) \end{aligned}$ | $\begin{gathered} -0.0247 \\ (0.0425) \end{gathered}$ | $\begin{gathered} -0.0239 \\ (0.0321) \end{gathered}$ |
| Houseowner | $\begin{aligned} & -0.00725 \\ & (0.0221) \end{aligned}$ | $\begin{gathered} 0.0404 \\ (0.0327) \end{gathered}$ | $\begin{aligned} & -0.00545 \\ & (0.0453) \end{aligned}$ | $\begin{aligned} & -0.0867^{\star * *} \\ & (0.0255) \end{aligned}$ | $\begin{gathered} -0.0784^{* * *} \\ (0.0163) \end{gathered}$ | $\begin{gathered} -0.0742^{\star \star *} \\ (0.0238) \end{gathered}$ | $\begin{aligned} & -0.0399^{*} \\ & (0.0235) \end{aligned}$ | $\begin{gathered} -0.0306 \\ (0.0310) \end{gathered}$ | $\begin{gathered} 0.0813 \\ (0.0542) \end{gathered}$ | $\begin{gathered} 0.0197 \\ (0.0782) \end{gathered}$ | $\begin{aligned} & -0.0622^{* *} \\ & (0.0284) \end{aligned}$ | $\begin{gathered} 0.0294 \\ (0.0418) \end{gathered}$ | $\begin{aligned} & 0.117^{* * \star} \\ & (0.0282) \end{aligned}$ | $\begin{gathered} -0.162^{* * *} \\ (0.0389) \end{gathered}$ | $\begin{gathered} 0.0481 \\ (0.0302) \end{gathered}$ |
| Employed | $\begin{gathered} 0.0638^{* * *} \\ (0.0245) \end{gathered}$ | $\begin{aligned} & 0.00801 \\ & (0.0373) \end{aligned}$ | $\begin{aligned} & -0.0918^{\star \star} \\ & (0.0451) \end{aligned}$ | $\begin{gathered} 0.0519^{*} \\ (0.0302) \end{gathered}$ | $\begin{gathered} -0.0371^{* *} \\ (0.0181) \end{gathered}$ | $\begin{gathered} 0.0244 \\ (0.0252) \end{gathered}$ | $\begin{gathered} -0.0281 \\ (0.0261) \end{gathered}$ | $\begin{gathered} 0.0230 \\ (0.0337) \end{gathered}$ | $\begin{gathered} 0.0205 \\ (0.0565) \end{gathered}$ | $\begin{gathered} 0.0749 \\ (0.0967) \end{gathered}$ | $\begin{gathered} -0.0524 \\ (0.0329) \end{gathered}$ | $\begin{gathered} -0.0540 \\ (0.0422) \end{gathered}$ | $\begin{gathered} 0.0306 \\ (0.0306) \end{gathered}$ | $\begin{gathered} 0.0152 \\ (0.0448) \end{gathered}$ | $\begin{gathered} -0.0513 \\ (0.0349) \end{gathered}$ |
| Age | $\begin{aligned} & -0.00133^{\star} \\ & (0.000710) \end{aligned}$ | $\begin{aligned} & 0.00222^{* *} \\ & (0.00113) \end{aligned}$ | $\begin{aligned} & -0.00461^{\star \star \star} \\ & (0.00142) \end{aligned}$ | $\begin{aligned} & -0.00517^{* * *} \\ & (0.000889) \end{aligned}$ | $\begin{aligned} & -0.00389^{* * *} \text {. } \\ & (0.0005344) \end{aligned}$ | $\begin{aligned} & -0.00366^{\star * *} \\ & (0.000744) \end{aligned}$ | $\begin{aligned} & -0.00181^{\star \star} \\ & (0.000762) \end{aligned}$ | $\begin{aligned} & -0.000842 \\ & (0.00102) \end{aligned}$ | $\begin{gathered} 0.00105 \\ (0.00170) \end{gathered}$ | $\begin{gathered} 0.00302 \\ (0.00274) \end{gathered}$ | $\begin{gathered} 0.00136 \\ (0.000950) \end{gathered}$ | $\begin{gathered} 0.00120 \\ (0.00130) \end{gathered}$ | $\begin{aligned} & -0.00231^{* *} \\ & (0.000926) \end{aligned}$ | $\begin{array}{r} -0.000607 \\ (0.00126) \end{array}$ | $\begin{aligned} & -0.00299^{* * *} \\ & (0.00101) \end{aligned}$ |
| Protestant | $\begin{aligned} & 0.00499 \\ & (0.0223) \end{aligned}$ | $\begin{gathered} -0.000855 \\ (0.0332) \end{gathered}$ | $\begin{gathered} 0.0360 \\ (0.0465) \end{gathered}$ | $\begin{aligned} & -0.0522^{* *} \\ & (0.0261) \end{aligned}$ | $\begin{aligned} & -0.00356 \\ & (0.0167) \end{aligned}$ | $\begin{aligned} & -0.0471^{*} \\ & (0.0241) \end{aligned}$ | $\begin{aligned} & -0.00679 \\ & (0.0258) \end{aligned}$ | $\begin{aligned} & -0.0274 \\ & (0.0331) \end{aligned}$ | $\begin{aligned} & 0.00938 \\ & (0.0540) \end{aligned}$ | $\begin{gathered} 0.144^{*} \\ (0.0827) \end{gathered}$ | $\begin{aligned} & -0.0543^{*} \\ & (0.0301) \end{aligned}$ | $\begin{gathered} 0.0233 \\ (0.0446) \end{gathered}$ | $\begin{aligned} & 0.0832^{* * *} \\ & (0.0293) \end{aligned}$ | $\begin{aligned} & -0.0863^{* *} \\ & (0.0396) \end{aligned}$ | $\begin{aligned} & -0.0496 \\ & (0.0304) \end{aligned}$ |
| Number of Ballots | 5 | 3 | 1 | 5 | 9 | 5 | 4 | 1 | 1 | 1 | 3 | 2 | 4 | 3 | 4 |
| Ballot Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Canton Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 2,833 | 1,038 | 569 | 2,089 | 4,838 | 2,377 | 1,969 | 670 | 505 | 204 | 1,472 | 688 | 1,770 | 941 | 1,548 |
| Log-Likelihood | -1617.96 | -625.60 | -309.71 | -1182.49 | -2880.52 | -1501.85 | -1154.24 | -309.60 | -319.56 | -123.23 | -899.35 | -412.33 | -1020.10 | -460.26 | -804.66 |

Table 3 (continued): Voting Behavior of Men and Women

|  |  | Health |  |  |  | Education |  |  |  | Welfare |  |  | Culture and Leisure |  | LivingPro CheapHousing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Subsidies Health Insurance | Pro Liberalizing Drugs | Against Tobacco/ Alcohol | Against Gen-Tech/ Animal Test. | Pro Legalize Abortion | Cheaper Hospitals/ Pharma-Prod. | Free Education | Reduce Unempl. Benefits | Decrease <br> Retirement Age | $\begin{gathered} \text { Increase } \\ \text { Retirement } \\ \text { Age } \\ \hline \end{gathered}$ | Support for the Disabled | Longer Maternity Leave | More Culture | More Leisure |  |
| Female Dummy | $\begin{gathered} 0.038 \\ (0.032) \end{gathered}$ | $\begin{gathered} -0.0164 \\ (0.0323) \end{gathered}$ | $\begin{aligned} & 0.163^{\star * *} \\ & (0.0263) \end{aligned}$ | $\begin{aligned} & 0.0825^{* * *} \\ & (0.0236) \end{aligned}$ | $\begin{aligned} & -0.0299 \\ & (0.0409) \end{aligned}$ | $\begin{aligned} & -0.0388^{\star} \\ & (0.0226) \end{aligned}$ | $\begin{gathered} 0.002 \\ (0.068) \end{gathered}$ | $\begin{aligned} & -0.0488 \\ & (0.0350) \end{aligned}$ | $\begin{aligned} & 0.0621^{* * *} \\ & (0.0237) \end{aligned}$ | $\begin{aligned} & -0.0431 \\ & (0.0482) \end{aligned}$ | $\begin{aligned} & 0.137^{* * *} \\ & (0.0474) \end{aligned}$ | $\begin{aligned} & 0.0513^{*} \\ & (0.0283) \end{aligned}$ | $\begin{aligned} & 0.0868^{\star} \\ & (0.0445) \end{aligned}$ | $\begin{gathered} 0.0102 \\ (0.0332) \end{gathered}$ | $\begin{gathered} 0.0109 \\ (0.0458) \end{gathered}$ |
| University Education | $\begin{gathered} 0.031 \\ (0.053) \end{gathered}$ | $\begin{aligned} & 0.119^{* *} \\ & (0.0494) \end{aligned}$ | $\begin{aligned} & 0.140^{* * *} \\ & (0.0505) \end{aligned}$ | $\begin{aligned} & -0.0150 \\ & (0.0352) \end{aligned}$ | $\begin{gathered} 0.128^{\star *} \\ (0.0544) \end{gathered}$ | $\begin{gathered} 0.0354 \\ (0.0381) \end{gathered}$ |  | $\begin{gathered} 0.0571 \\ (0.0462) \end{gathered}$ | $\begin{aligned} & 0.000506 \\ & (0.0366) \end{aligned}$ | $\begin{gathered} 0.137^{* *} \\ (0.0627) \end{gathered}$ | $\begin{gathered} 0.0208 \\ (0.0691) \end{gathered}$ | $\begin{aligned} & 0.208^{* * *} \\ & (0.0541) \end{aligned}$ | $\begin{aligned} & 0.337^{* * *} \\ & (0.0428) \end{aligned}$ | $\begin{aligned} & -0.0243 \\ & (0.0554) \end{aligned}$ | $\begin{gathered} -0.0388 \\ (0.0651) \end{gathered}$ |
| Married | $\begin{gathered} -0.007 \\ (0.034) \end{gathered}$ | $\begin{gathered} -0.0578 \\ (0.0374) \end{gathered}$ | $\begin{aligned} & -0.00558 \\ & (0.0276) \end{aligned}$ | $\begin{aligned} & -0.0321 \\ & (0.0259) \end{aligned}$ | $\begin{aligned} & -0.0161 \\ & (0.0446) \end{aligned}$ | $\begin{aligned} & 0.00808 \\ & (0.0234) \end{aligned}$ | $\begin{gathered} -0.044 \\ (0.066) \end{gathered}$ | $\begin{aligned} & -0.0564 \\ & (0.0369) \end{aligned}$ | $\begin{gathered} 0.0108 \\ (0.0258) \end{gathered}$ | $\begin{gathered} -0.0611 \\ (0.0518) \end{gathered}$ | $\begin{aligned} & -0.0447 \\ & (0.0531) \end{aligned}$ | $\begin{gathered} -0.0430 \\ (0.0305) \end{gathered}$ | $\begin{aligned} & -0.149 * * * \\ & (0.0470) \end{aligned}$ | $\begin{gathered} 0.0122 \\ (0.0362) \end{gathered}$ | $\begin{gathered} -0.0674 \\ (0.0506) \end{gathered}$ |
| Houseowner | $\begin{gathered} -0.084 \\ (0.033)^{\star \star} \end{gathered}$ | $\begin{aligned} & 0.00828 \\ & (0.0346) \end{aligned}$ | $\begin{aligned} & -0.0256 \\ & (0.0271) \end{aligned}$ | $\begin{aligned} & -0.0335 \\ & (0.0246) \end{aligned}$ | $\begin{gathered} 0.0576 \\ (0.0428) \end{gathered}$ | $\begin{aligned} & -0.0345 \\ & (0.0221) \end{aligned}$ | $\begin{gathered} -0.14 \\ (0.065)^{\star \star} \end{gathered}$ | $\begin{aligned} & 0.0730^{* *} \\ & (0.0347) \end{aligned}$ | $\begin{aligned} & -0.0711^{* * *} \\ & (0.0241) \end{aligned}$ | $\begin{aligned} & 0.165^{\star * \star} \\ & (0.0487) \end{aligned}$ | $\begin{aligned} & -0.0968^{*} \\ & (0.0516) \end{aligned}$ | $\begin{gathered} -0.0393 \\ (0.0290) \end{gathered}$ | $\begin{gathered} 0.0739 \\ (0.0469) \end{gathered}$ | $\begin{aligned} & -0.102^{\star \star \star} \\ & (0.0344) \end{aligned}$ | $\begin{aligned} & -0.293^{\star \star *} \\ & (0.0465) \end{aligned}$ |
| Employed | $\begin{gathered} -0.016 \\ (0.036) \end{gathered}$ | $\begin{aligned} & 0.0956^{\star *} \\ & (0.0380) \end{aligned}$ | 0.000851 <br> (0.0281) | $\begin{gathered} 0.0197 \\ (0.0265) \end{gathered}$ | $\begin{aligned} & 0.166^{* * *} \\ & (0.0473) \end{aligned}$ | $\begin{gathered} 0.0243 \\ (0.0242) \end{gathered}$ | $\begin{gathered} -0.177 \\ (0.076)^{* *} \end{gathered}$ | $\begin{gathered} 0.0236 \\ (0.0389) \end{gathered}$ | $\begin{gathered} 0.0261 \\ (0.0283) \end{gathered}$ | $\begin{aligned} & -0.128^{* *} \\ & (0.0579) \end{aligned}$ | $\begin{aligned} & -0.0405 \\ & (0.0557) \end{aligned}$ | $\begin{aligned} & -0.0176 \\ & (0.0315) \end{aligned}$ | $\begin{aligned} & -0.00716 \\ & (0.0493) \end{aligned}$ | $\begin{aligned} & 0.0917^{* *} \\ & (0.0375) \end{aligned}$ | $\begin{gathered} 0.0697 \\ (0.0509) \end{gathered}$ |
| Age | $\begin{gathered} 0 \\ 0 \\ (0.001) \end{gathered}$ | $\begin{aligned} & -0.00385^{* * *} \\ & (0.00120) \end{aligned}$ | $\begin{aligned} & 0.00258^{\star * *} \\ & (0.000770) \end{aligned}$ | $\begin{gathered} -0.00117 \\ (0.000785) \end{gathered}$ | $\begin{aligned} & -0.000874 \\ & (0.00135) \end{aligned}$ | $\begin{gathered} 9.02 \mathrm{e}-05 \\ (0.000740) \end{gathered}$ | $\begin{gathered} 0 \\ (0.002) \end{gathered}$ | $\begin{aligned} & 0.00394^{* * *} \\ & (0.00112) \end{aligned}$ | $\begin{aligned} & -0.00212^{* *} \\ & (0.000877) \end{aligned}$ | $\begin{gathered} 0.00131 \\ (0.00171) \end{gathered}$ | $\begin{aligned} & -0.000918 \\ & (0.00169) \end{aligned}$ | $\begin{aligned} & -0.00516^{* * *} \\ & (0.000965) \end{aligned}$ | $\begin{aligned} & -0.00334^{* *} \\ & (0.00149) \end{aligned}$ | $\begin{gathered} -0.00401^{* * *} \\ (0.00109) \end{gathered}$ | $\begin{gathered} 0.00136 \\ (0.00154) \end{gathered}$ |
| Protestant | $\begin{gathered} 0.006 \\ (0.033) \end{gathered}$ | $\begin{gathered} 0.0263 \\ (0.0353) \end{gathered}$ | $\begin{gathered} -0.0248 \\ (0.0275) \end{gathered}$ | $\begin{gathered} -0.0223 \\ (0.0251) \end{gathered}$ | $\begin{aligned} & 0.169^{* * *} \\ & (0.0424) \end{aligned}$ | $\begin{aligned} & -1.74 \mathrm{e}-05 \\ & (0.0229) \end{aligned}$ | $\begin{gathered} 0.006 \\ (0.072) \end{gathered}$ | $\begin{aligned} & 0.0613^{\star} \\ & (0.0365) \end{aligned}$ | $\begin{aligned} & -0.0512^{\star \star} \\ & (0.0250) \end{aligned}$ | $\begin{gathered} 0.0286 \\ (0.0506) \end{gathered}$ | $\begin{aligned} & -0.0848^{*} \\ & (0.0508) \end{aligned}$ | $\begin{aligned} & -0.0730^{* *} \\ & (0.0291) \end{aligned}$ | $\begin{aligned} & -0.0516 \\ & (0.0493) \end{aligned}$ | $\begin{aligned} & -0.0253 \\ & (0.0354) \end{aligned}$ | $\begin{aligned} & -0.0352 \\ & (0.0490) \end{aligned}$ |
| Number of Ballots | 2 | 2 | 2 | 4 | 1 | 2 | 1 | 2 | 4 | 1 | 1 | 2 | 2 | 4 | 1 |
| Ballot Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| Canton Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 949 | 1,127 | 1,112 | 2,144 | 517 | 1,107 | 252 | 952 | 1,995 | 491 | 508 | 1,450 | 556 | 1,334 | 522 |
| Log-Likelihood | -525.80 | -668.00 | -539.11 | -1302.15 | -267.49 | -449.83 | -138.26 | -507.46 | -1254.93 | -298.05 | -322.91 | -847.63 | -326.30 | -612.76 | -297.16 |
|  <br>  significant at the 5 (10) percent level. The last row reports the value of the log-likelihood function. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Source: Authors' calculations. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 4: Robustness to Income

| International Affairs |  |  | Military | Environment |  | Transport |  |  | Agriculture |  | Legal |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pro Joining | Against | Pro | Less | Protection | Against | Pro | Against | Pro | Against | Pro | Equal Rights | More |
| International | Foreign | Foreign | Military | of the | Nuclear | Speed | Subsidies | Public | Subsidies | Liberalizing | Women and | Direct |
| Organizations | Immigration | Immigration |  | Environment | Energy | Limits | Parking | Transport | Agriculture | Agriculture | Men | Democracy |

## Baseline Estimates for Votes with Household-Income

| Female Dummy | $\begin{gathered} 0.0269 \\ (0.0255) \end{gathered}$ | $\begin{gathered} -0.0905^{* * *} \\ (0.0309) \end{gathered}$ | $\begin{aligned} & 0.0875^{* *} \\ & (0.0420) \end{aligned}$ | $\begin{gathered} 0.0270 \\ (0.0310) \end{gathered}$ | $\begin{gathered} 0.0633^{* * *} \\ (0.0179) \end{gathered}$ | $\begin{aligned} & 0.0650^{* *} \\ & (0.0328) \end{aligned}$ | $\begin{aligned} & 0.0550^{*} \\ & (0.0325) \end{aligned}$ | $\begin{gathered} 0.0863 \\ (0.0804) \end{gathered}$ | $\begin{gathered} 0.0265 \\ (0.0434) \end{gathered}$ | $\begin{aligned} & 0.177^{* * *} \\ & (0.0442) \end{aligned}$ | $\begin{gathered} -0.0112 \\ (0.0274) \end{gathered}$ | $\begin{aligned} & 0.206^{* * *} \\ & (0.0392) \end{aligned}$ | $\begin{gathered} 0.0274 \\ (0.0329) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2,000 | 1,038 | 569 | 1,430 | 3,298 | 1,066 | 670 | 204 | 502 | 491 | 1,770 | 450 | 1,137 |
|  | Control for Education-Category Dummies |  |  |  |  |  |  |  |  |  |  |  |  |
| Female Dummy | $\begin{aligned} & 0.0666^{* *} \\ & (0.0266) \end{aligned}$ | $\begin{aligned} & -0.101^{* * *} \\ & (0.0317) \end{aligned}$ | $\begin{aligned} & 0.126^{* * *} \\ & (0.0434) \end{aligned}$ | $\begin{gathered} 0.0205 \\ (0.0317) \end{gathered}$ | $\begin{aligned} & 0.0819^{* * *} \\ & (0.0185) \end{aligned}$ | $\begin{aligned} & 0.0690^{* *} \\ & (0.0338) \end{aligned}$ | $\begin{aligned} & 0.0562^{*} \\ & (0.0331) \end{aligned}$ | $\begin{gathered} 0.118 \\ (0.0856) \end{gathered}$ | $\begin{gathered} 0.0314 \\ (0.0441) \end{gathered}$ | $\begin{aligned} & 0.205^{* * *} \\ & (0.0457) \end{aligned}$ | $\begin{gathered} -0.0142 \\ (0.0275) \end{gathered}$ | $\begin{aligned} & 0.220^{* * *} \\ & (0.0397) \end{aligned}$ | $\begin{gathered} 0.0145 \\ (0.0340) \end{gathered}$ |
|  | 2,000 | 1,038 | 569 | 1,430 | 3,298 | 1,066 | 670 | 204 | 502 | 491 | 1,770 | 450 | 1,137 |
|  | Control for Household-Income |  |  |  |  |  |  |  |  |  |  |  |  |
| Female Dummy | $\begin{aligned} & 0.0713^{* *} \\ & (0.0295) \end{aligned}$ | $\begin{aligned} & -0.134^{* * *} \\ & (0.0340) \end{aligned}$ | $\begin{aligned} & 0.223^{* * *} \\ & (0.0473) \end{aligned}$ | $\begin{gathered} 0.0352 \\ (0.0339) \end{gathered}$ | $\begin{aligned} & 0.0898^{* * *} \\ & (0.0214) \end{aligned}$ | $\begin{aligned} & 0.110^{* * *} \\ & (0.0365) \end{aligned}$ | $\begin{gathered} 0.0525 \\ (0.0380) \end{gathered}$ | $\begin{gathered} 0.107 \\ (0.101) \end{gathered}$ | $\begin{gathered} 0.0650 \\ (0.0489) \end{gathered}$ | $\begin{aligned} & 0.185^{* * *} \\ & (0.0551) \end{aligned}$ | $\begin{gathered} -0.0241 \\ (0.0329) \end{gathered}$ | $\begin{aligned} & 0.209^{* *} \\ & (0.0447) \end{aligned}$ | $\begin{gathered} 0.0172 \\ (0.0377) \end{gathered}$ |
|  | 1,680 | 901 | 397 | 1,231 | 2,369 | 933 | 547 | 160 | 431 | 332 | 1,252 | 365 | 971 |
|  | Married Couples Only (All Votes) |  |  |  |  |  |  |  |  |  |  |  |  |
| Female Dummy | $\begin{aligned} & 0.0650^{* *} \\ & (0.0282) \end{aligned}$ | $\begin{aligned} & -0.0865^{\star *} \\ & (0.0401) \end{aligned}$ | $\begin{gathered} 0.102 \\ (0.0652) \end{gathered}$ | $\begin{gathered} 0.0499 \\ (0.0324) \end{gathered}$ | $\begin{gathered} 0.0807^{* * *} \\ (0.0205) \end{gathered}$ | $\begin{gathered} 0.0980^{* * *} \\ (0.0286) \end{gathered}$ | $\begin{gathered} 0.0244 \\ (0.0435) \end{gathered}$ | $\begin{gathered} 0.117 \\ (0.116) \end{gathered}$ | $\begin{gathered} -0.0111 \\ (0.0355) \end{gathered}$ | $\begin{aligned} & 0.211^{* * *} \\ & (0.0531) \end{aligned}$ | $\begin{gathered} -0.0423 \\ (0.0340) \end{gathered}$ | $\begin{aligned} & 0.214^{* * *} \\ & (0.0494) \end{aligned}$ | $\begin{gathered} 0.0386 \\ (0.0390) \end{gathered}$ |




 at the 1 percent level, while those with ${ }^{* *}\left(^{*}\right)$ are significant at the 5 (10) percent level.

| Health |  |  |  |  |  |  |  | Welfare |  |  | Culture and Leisure |  | Living Pro Cheap |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subsidies | Pro | Against | Against | Pro | Cheaper | Reduce | Decrease | Increase | Support | Longer | More | More |  |
| Health | Liberalizing | Tobacco/ | Gen-Tech/ | Legalize | Hospitals/ | Unempl. | Retirement | Retirement | for the | Maternity | Culture | Leisure | Housing |
| Insurance | Drugs | Alcohol | Animal Test. | Abortion | Pharma-Prod. | Benefits | Age | Age | Disabled | Leave |  |  |  |



Notes: The table reports marginal effects from a probit model. The dependent variable is the voting decision, which is equal to one if the respondent supported the proposition and zero otherwise for the respective propositions
shown in the column header. The table reports the coefficient on the female dummy. All specifications include canton and ballot fixed effects and the controls included in Table 3 . The first row reports the baseline estimate underlying Table 3 for the restricted sample of votes where household income is available (i.e. votes after 1993). The second row adds dummies for each educational category. The third row adds a measure for household income. The last row restricts the sample to married survey-respondents (for the whole sample of votes). Robust standard errors are reported in parentheses. Coefficients with *** are significant at the 1 percent level, while those with ** ( ${ }^{*}$ ) are significant at the 5 (10) percent level.

Table 5: Support for Higher Expenditures in Federal Propositions

|  | Size of Government |  | Scope of Government |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | More <br> Government | Less <br> Debt | More <br> Environment | More <br> Transport | More Defense | More Agriculture | More <br> Education | More <br> Health | More Welfare |
| Female Dummy | $\begin{gathered} 0.025 \\ (0.008)^{* * *} \end{gathered}$ | $\begin{gathered} -0.031 \\ (0.019) \end{gathered}$ | $\begin{gathered} 0.1 \\ (0.028)^{* * *} \end{gathered}$ | $\begin{gathered} 0.016 \\ (0.016) \end{gathered}$ | $\begin{gathered} -0.064 \\ (0.023)^{* * *} \end{gathered}$ | $\begin{gathered} -0.073 \\ (0.026)^{* * *} \end{gathered}$ | $\begin{gathered} 0.117 \\ (0.058)^{* *} \end{gathered}$ | $\begin{gathered} 0.062 \\ (0.025)^{* *} \end{gathered}$ | $\begin{gathered} 0.064 \\ (0.016)^{* * *} \end{gathered}$ |
| University Education | $\begin{gathered} 0.145 \\ (0.012)^{* * *} \end{gathered}$ | $\begin{aligned} & -0.006 \\ & (0.033) \end{aligned}$ | $\begin{gathered} -0.053 \\ (0.045) \end{gathered}$ | $\begin{gathered} 0.187 \\ (0.021)^{* * *} \end{gathered}$ | $\begin{gathered} -0.094 \\ (0.037)^{* *} \end{gathered}$ | $\begin{gathered} -0.101 \\ (0.043)^{\star *} \end{gathered}$ | $\begin{gathered} 0.154 \\ (0.103) \end{gathered}$ | $\begin{gathered} 0.109 \\ (0.044)^{\star \star} \end{gathered}$ | $\begin{gathered} -0.024 \\ (0.025) \end{gathered}$ |
| Married | $\begin{gathered} -0.025 \\ (0.008)^{* * \star} \end{gathered}$ | $\begin{gathered} 0.014 \\ (0.021) \end{gathered}$ | $\begin{gathered} -0.037 \\ (0.031) \end{gathered}$ | $\begin{gathered} -0.026 \\ (0.017) \end{gathered}$ | $\begin{aligned} & -0.001 \\ & (0.024) \end{aligned}$ | $\begin{gathered} -0.011 \\ (0.029) \end{gathered}$ | $\begin{gathered} -0.037 \\ (0.062) \end{gathered}$ | $\begin{gathered} -0.008 \\ (0.026) \end{gathered}$ | $\begin{gathered} -0.002 \\ (0.017) \end{gathered}$ |
| Houseowner | $\begin{gathered} -0.035 \\ (0.008)^{* * *} \end{gathered}$ | $\begin{gathered} 0.03 \\ (0.02) \end{gathered}$ | $\begin{gathered} -0.099 \\ (0.029)^{* * *} \end{gathered}$ | $\begin{gathered} -0.016 \\ (0.016) \end{gathered}$ | $\begin{gathered} 0.066 \\ (0.023)^{* * *} \end{gathered}$ | $\begin{gathered} 0.008 \\ (0.028) \end{gathered}$ | $\begin{gathered} -0.182 \\ (0.060)^{* * *} \end{gathered}$ | $\begin{gathered} -0.068 \\ (0.025)^{\star * *} \end{gathered}$ | $\begin{gathered} -0.087 \\ (0.016)^{* * *} \end{gathered}$ |
| Employed | $\begin{gathered} -0.035 \\ (0.009)^{* * *} \end{gathered}$ | $\begin{gathered} -0.058 \\ (0.021)^{* * *} \end{gathered}$ | $\begin{gathered} -0.069 \\ (0.031)^{* *} \end{gathered}$ | $\begin{gathered} -0.054 \\ (0.018)^{* * *} \end{gathered}$ | $\begin{gathered} 0.022 \\ (0.027) \end{gathered}$ | $\begin{gathered} 0.026 \\ (0.029) \end{gathered}$ | $\begin{gathered} 0.126 \\ (0.061)^{* *} \end{gathered}$ | $\begin{gathered} -0.021 \\ (0.027) \end{gathered}$ | $\begin{gathered} 0.013 \\ (0.019) \end{gathered}$ |
| Age | $\begin{gathered} 0.001 \\ (0.001) \end{gathered}$ | $\begin{gathered} 0.001 \\ (0.001) \end{gathered}$ | $\begin{gathered} -0.005 \\ (0.001)^{* * *} \end{gathered}$ | $\begin{gathered} 0.002 \\ (0.001)^{* * *} \end{gathered}$ | $\begin{gathered} 0.006 \\ (0.001)^{* * *} \end{gathered}$ | $\begin{gathered} 0.001 \\ (0.001) \end{gathered}$ | $\begin{gathered} 0.002 \\ (0.002) \end{gathered}$ | $\begin{gathered} -0.001 \\ (0.001) \end{gathered}$ | $\begin{gathered} -0.003 \\ (0.001)^{* * *} \end{gathered}$ |
| Protestant | $\begin{gathered} -0.02 \\ (0.008)^{\star *} \end{gathered}$ | $\begin{gathered} 0.028 \\ (0.021) \end{gathered}$ | $\begin{aligned} & -0.008 \\ & (0.03) \end{aligned}$ | $\begin{gathered} -0.062 \\ (0.017)^{* * *} \end{gathered}$ | $\begin{gathered} 0.088 \\ (0.024)^{* * *} \end{gathered}$ | $\begin{gathered} 0.003 \\ (0.029) \end{gathered}$ | $\begin{gathered} 0.08 \\ (0.057) \end{gathered}$ | $\begin{gathered} -0.011 \\ (0.026) \end{gathered}$ | $\begin{gathered} -0.04 \\ (0.017)^{\star \star} \end{gathered}$ |
| Number of Ballots | 49 | 5 | 3 | 7 | 5 | 5 | 3 | 4 | 9 |
| Ballot Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Canton Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 20,448 | 2,150 | 1,529 | 4,087 | 2,150 | 1,531 | 387 | 1,720 | 4,427 |
| Log Likelihood | -12725.0 | -1101.3 | -855.4 | -2408.2 | -1273.9 | -877.4 | -238.1 | -1009.0 | -2793.7 |

[^6]Table 6: Support for Higher Expenditures in the ISSP Survey

|  |  | Scope of Government |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | More | More | More | More | More |
| Environment | Defense | Education | Health | Redistribution |  |
|  |  |  |  |  |  |
| Female Dummy | -0.0047 | $-0.0406^{* *}$ | -0.0139 | 0.0516 | 0.0202 |
|  | $(0.0476)$ | $(0.0181)$ | $(0.0432)$ | $(0.0478)$ | $(0.0404)$ |
|  |  |  |  |  |  |
| Canton Fixed Effects | Yes | Yes | Yes | Yes | Yes |
| Observations | 484 | 485 | 484 | 485 | 483 |
| Log-Likelihood | -313.2 | -84.8 | -290.5 | -310.5 | -267.1 |
|  |  |  |  |  |  |
| Notes: The sample consists of survey respondents who indicate to have voted in the last federal election. The table reports the |  |  |  |  |  |

Notes: The sample consists of survey respondents who indicate to have voted in the last federal election. The table reports the
marginal effects from a probit model where the dependent variable is a dummy variable indicating whether the respondent supports more government spending in the specific policy area ( 1 if yes, 0 if not). The table reports the coefficient on the female dummy variable in each column. The controls are dummy variables for marital and employment status, religion ( 1 if protestant, 0 otherwise), age and a dummy for living in an urban area. Robust standard errors are reported in parentheses.
Source: International Social Survey Programme (ISSP), Wave 6 ("Role of Government")

Table 7: Propositions where Men and Women had accepted Different Outcomes

| Title of Proposition | Year of Vote | Women Yes | Men Yes | Outcome |
| :--- | :---: | :---: | :---: | :---: |
| Ecological and Modern Agriculture |  |  |  |  |
| Easier Access to Swiss Real Estate for Non-Residents | 1995 | 44.4 | 50.2 | No |
| Abolish Subsidies for Parking Spaces at Train Stations | 1995 | 43.3 | 55.4 | No |
| For a Sustainable Unemployment Insurance | 1996 | 51.8 | 41.2 | Yes |
|  | 1997 | 38.9 | 52.1 | No |
| New Regulation Fuel Tariffs |  |  |  |  |
| Introduction of Civil Service | 1983 | 48.1 | 57.0 | Yes |
| Reduce Property Sales, especially to Non-Residents | 1984 | 51.8 | 44.6 | No |
| Stop Construction of Nuclear Power Plants | 1984 | 50.9 | 48.4 | No |
| Stop Use of Nuclear Energy | 1984 | 53.9 | 47.7 | No |
| Reducing Animal Testing | 1990 | 58.0 | 43.3 | No |
| For an Ecological Military | 1992 | 55.4 | 41.7 | No |
| Against Fighter Planes | 1993 | 51.3 | 42.9 | No |
| Flexible Retirement Age 62 for Men and Women | 1993 | 52.1 | 43.4 | No |
| For Equal Rights of the Disabled | 2000 | 50.4 | 43.6 | No |
| Stop Construction of Nuclear Power Plants | 2003 | 55.1 | 40.5 | No |
|  | 2003 | 50.4 | 44.0 | No |

Notes: The third and fourth columns show the percentage of women and men voting in favor of the proposition respectively. The last column shows the official outcome of the federal proposition. The first four rows show the votes where women changed the result. The other rows report the votes, in which men were decisive.
Source: VOX Surveys, 1981-2003.

Appendix Table 1: Votes, Gender Gaps and Survey Accuracy

| Year | Title of the Proposition | Vote Nr. | Gender Gaps | Pvalues | Pol. Area |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1993 | Initiative for Reducing Problems with Tabacco | 404 | 17.71 | 0.65 | PRO HEALTH |
| 2000 | Initiative «for a fair Representation of Women in the Government» | 461 | 17.49 | 0.53 | EQUAL |
| 1985 | Marriage and Inheritance Law | 336 | 17.04 | 0.00 | EQUAL |
| 1994 | Swiss Criminal Code on Military Law | 414 | 16.86 | 0.05 |  |
| 1994 | Against Subsidies for Corn Production | 413 | 15.58 | 0.98 | AGRI SUB |
| 1993 | Initiative for Reducing Problems with Alcohol | 403 | 15.55 | 0.47 | PRO HEALTH |
| 1992 | Initiative for Saving the Waters | 381 | 15.26 | 0.46 | ENV |
| 2003 | For a car-free Sunday per Quarter | 498 | 14.92 | 0.22 | ENV |
| 1990 | Initiative against Nuclear Energy | 365 | 14.72 | 0.19 | CONTRA NUC |
| 2003 | Initiative «Equal Rights for Disables» | 500 | 14.62 | 0.00 | PRO DISABLED |
| 1981 | Equal Rights for Women and Men | 306 | 14.55 | 0.00 | EQUAL |
| 1987 | For Protection of the Swiss Moors | 349 | 14.23 | 0.00 | ENV |
| 1992 | Initiative for Restricting Animal Testing | 374 | 13.65 | 0.04 | CONTRA GEN |
| 1997 | Federal Resolution on Financing the Unemployment Insurance | 437 | -13.23 | 0.13 | UNEMPL |
| 1990 | Initiative against Nuclear Power Plants | 366 | 13.20 | 0.00 | CONTRA NUC |
| 1999 | Initiative «Proprietary for Everybody» | 451 | 13.19 | 0.99 |  |
| 1986 | For joining the United Nations Organizations | 338 | 12.22 | 0.06 | INT |
| 1995 | Law on Aquisition of Property through Foreigners | 424 | -12.05 | 0.26 |  |
| 2003 | Federal Resolution on Changes of Citizens' Rights | 493 | 11.66 | 0.06 | DD |
| 1985 | Against the Use of Animals for Scientific Purposes | 337 | 11.49 | 0.04 |  |
| 1987 | Law on Health Insurance | 350 | 11.11 | 0.01 | PRO MOTHER |
| 1994 | Federal Resolution on the Promotion of Culture | 410 | 10.92 | 0.00 | MORE CULT |
| 1998 | Initiative «for Protection against Gen-Manipulation» | 440 | 10.91 | 0.80 | CONTRA GEN |
| 2000 | Initiative for Restricting Immigration | 467 | -10.86 | 0.00 | LESS FOR |
| 1985 | For a Coordinated Start of of Schools | 334 | 10.74 | 0.01 |  |
| 1998 | Initiative «10th Revision Age Insurance without increasing the Retirement Age" | 444 | 10.69 | 0.51 | CONTRA RET |
| 1989.5 | For higher Speed Limits 130/100 | 358 | -10.57 | 0.00 | PRO SPEED |
| 1996 | Against Federal Subsidies for Parking Spaces | 429 | 10.54 | 0.01 | SUB PARKING |
| 2002 | Law on the Electricity Market | 490 | -10.51 | 0.00 |  |
| 1991 | Initiative for Promoting Public Transportation | 370 | 10.36 | 0.12 | PUB TRANS |
| 1996 | Federal Resolution on the Revision of the Language Article | 425 | 10.29 | 0.10 |  |
| 1992 | Law on Protection of the Waters | 377 | 9.55 | 0.00 | ENV |
| 1994 | For easier Naturalization of Immigrants | 411 | 9.47 | 0.00 | PRO FOR |
| 1991 | Federal Resolution on the Coordination on Traffic Policy | 371 | -9.43 | 0.45 |  |
| 2001 | Initiative for Low Pharmaceutical Prices | 475 | -9.37 | 0.00 | CHEAP PHARMA |
| 1993 | Federal Resolution on the Union of the community Laufen with the Canton BS | 395 | 9.36 | 0.00 |  |
| 1985 | Abolish Charges for Primary School | 326 | -9.18 | 0.55 |  |
| 1996 | Initiative against Illegal Immigration | 432 | -9.02 | 0.00 |  |
| 1987 | Initiative for Direct Democracy in Military Expenses | 346 | 9.00 | 0.27 |  |
| 1983 | Regulation of Custom's Duty of Fuel | 312 | -8.92 | 0.85 |  |
| 2000 | Initiative "Saving in the Military" | 471 | 8.91 | 0.59 | LESS MILITARY |
| 1992 | Law on Stamp Duties | 384 | -8.88 | 0.12 |  |
| 1993 | Initiative "For a Switzerland without new Figher Jets" | 393 | 8.76 | 0.02 | LESS MILITARY |
| 1992 | Initiative for a cheap Health Insurance | 373 | 8.75 | 0.33 | SUB HEALTH-INS. |
| 1993 | Pro Environmental Protection in the Army | 392 | 8.37 | 0.32 |  |
| 1994 | Law on mandatory measures in Immigration Law | 417 | -8.19 | 0.85 |  |
| 1993 | Federal Resolution on Misuse of Arms | 394 | 8.14 | 0.00 |  |
| 1985 | Right to Live | 330 | 7.78 | 0.01 |  |
| 1993 | Initiative against Animal Experiments | 391 | 7.57 | 0.23 | CONTRA GEN |
| 1994 | Law on the Health Insurance | 415 | -7.54 | 0.00 |  |
| 1990 | Federal Resolution on Building Vines | 363 | -7.50 | 0.01 |  |
| 1987 | Law on Residence of Foreigners | 345 | -7.35 | 0.41 |  |
| 1990 | Initiative for Restricting Road Making | 359 | 7.18 | 0.51 | LESS ROAD |
| 1984 | Civil Service | 318 | 7.14 | 0.00 |  |
| 1992 | Federal Resolution on Building the Swiss Railway | 382 | -7.01 | 0.10 | PUB TRANS |
| 1994 | Initiative for Protection of the Alps | 408 | 6.98 | 0.09 | ENV |
| 2000 | Initiative «against Manipulations in the Technology of Reproduction» | 462 | 6.89 | 0.64 |  |
| 1985 | Venture Capital for Small and Middle-Sized Enterprises | 335 | 6.89 | 0.93 |  |
| 2000 | Initiative «for a flexible Retirement Age" | 470 | 6.87 | 0.73 | CONTRA RET |
| 1998 | Federal Law regulating working conditions | 448 | -6.85 | 0.46 |  |
| 1986 | For secured Education | 340 | 6.83 | 0.00 | EDU |
| 1998 | Law on user-dependent heavy Traffic Charge | 442 | -6.67 | 0.02 |  |
| 1993 | Initiative "For a Federal Holiday on August 1" | 396 | 6.45 | 0.03 | MORE LEIS |
| 1997 | Initiative «Against Exporting Arms» | 435 | 6.42 | 0.05 |  |
| 2002 | Law Regulating Abortion | 487 | -6.41 | 0.81 | ABORTION |
| 2003 | Initiative «For Restricting Nuclear Risks» | 502 | 6.38 | 0.01 | CONTRA NUC |
| 2000 | Initiative «for a flexible Age Insurance» | 469 | 6.33 | 0.04 | CONTRA RET |
| 1998 | Initiative «S.o.S. - Schweiz ohne Schnüffelpolizei» | 441 | 6.31 | 0.06 |  |
| 2000 | Initiative «for cutting motorized Road Traffic into Half" | 463 | 6.29 | 0.78 | ENV |
| 1984 | Nuclear Power Plants | 321 | 6.21 | 0.10 | CONTRA NUC |
| 2000 | Initiative «More rights for the people» | 468 | -6.03 | 0.19 | DD |


| 1992 | Law on Business Transactions | 383 | -5.86 | 0.00 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1992 | Salaries Parliamentary Members | 386 | -5.86 | 0.00 |  |
| 1992 | Compensations Parliamentary Members | 387 | -5.86 | 0.06 |  |
| 1985 | Abolish Cantonal Share on Stamp Duties | 331 | -5.85 | 0.00 |  |
| 2002 | Initiative «Protection of Mother and Baby" | 488 | 5.79 | 0.60 |  |
| 1995 | Counterproposal to the Initiative «for an ecological and effective agriculture» | 418 | -5.73 | 0.54 | AGRI LIB |
| 2001 | Federal Resolution promoting a Debt Break | 480 | -5.71 | 0.51 | LESS DEBT |
| 1981 | For Protecting Consumers' Rights | 307 | 5.66 | 0.00 |  |
| 1985 | Regulating Contributions for Education | 328 | -5.63 | 0.01 |  |
| 1995 | Initiative for better Age Insurance | 423 | 5.60 | 0.85 | CONTRA RET |
| 2001 | Federal Resolution on Abolishing Permissions to build Dioceses | 479 | -5.54 | 0.00 |  |
| 2003 | Federal Law on the Military | 495 | -5.44 | 0.02 | LESS MILITARY |
| 1996 | Counterproposal to the Initiative «for a natural agriculture» | 430 | 5.38 | 0.82 |  |
| 1998 | Initiative «for cheap aliments and ecological agriculture» | 443 | 5.24 | 0.20 |  |
| 2003 | Initiative «Against Nuclear Power Plants» | 501 | 5.16 | 0.17 | CONTRA NUC |
| 1987 | Train 2000 | 348 | 5.13 | 0.00 |  |
| 1985 | For Longer Paid Vacations | 329 | 5.10 | 0.08 | MORE LEIS |
| 1996 | Federal Resolution on the Cantonal Authority on Personal Military Equipment | 427 | 5.05 | 0.00 |  |
| 2003 | Federal Law on Civil Protection | 496 | -4.89 | 0.92 |  |
| 1990 | For Free Aare-Region | 362 | 4.83 | 0.32 | LESS ROAD |
| 1999 | Law on the Insurance of Disabled | 457 | -4.77 | 0.00 |  |
| 1987 | Asylum Law | 344 | -4.76 | 0.27 |  |
| 2003 | Federal Law on Cantonal Contributions to Treatments in Hospitals | 494 | 4.75 | 0.09 |  |
| 1992 | Federal Resolution for a Civilian Service for Military Deniars | 379 | 4.73 | 0.00 |  |
| 1984 | Against the Abuse of the Banking Secrecy | 319 | 4.69 | 0.80 |  |
| 2000 | For a Pigouvian Tax on Energy | 466 | 4.67 | 0.00 | ENV |
| 1994 | Federal Resolution on Charges on National Strees | 405 | 4.64 | 0.00 |  |
| 1999 | Asylum Law | 454 | -4.64 | 0.83 |  |
| 1992 | Swiss Military Code | 380 | 4.63 | 0.00 |  |
| 1997 | Initiative "Youth Without Drugs" | 438 | -4.57 | 0.48 |  |
| 1981 | For improving the Federal Finances | 308 | -4.56 | 0.00 | LESS DEBT |
| 1999 | Federal Resolution on Medical Prescription for Heroine | 456 | -4.54 | 0.41 | DRUG |
| 1991 | For Reducing the Voting Age from 21 to 18 | 369 | 4.45 | 0.00 | DD |
| 1983 | Energy Article | 313 | -4.45 | 0.01 |  |
| 1995 | Law on Age Insurance | 422 | -4.35 | 0.99 | PRO RET AGE |
| 2002 | Initiative for Lower Working Hours | 486 | -4.33 | 0.00 | MORE LEIS |
| 1994 | Initiative for a healthy Health Insurance | 416 | 4.28 | 0.02 | SUB HEALTH-INS. |
| 2000 | Federal Law on the Employees of the Government | 473 | -4.23 | 0.02 |  |
| 1993 | Measures on Unemployment Insurance | 398 | 4.15 | 0.00 | UNEMPL |
| 1988 | Initiative against Speculation with Properties | 353 | 4.15 | 0.64 |  |
| 2002 | Initiative against Misuse in Asylum Matters | 491 | -4.05 | 0.00 | LESS FOR |
| 1993 | Federal Resolution on Gambling Houses | 390 | -3.99 | 0.34 |  |
| 2001 | Initiative «for a better security on the strees with speed limit 30" | 476 | 3.99 | 0.39 | SAFE STREET |
| 1984 | Taxation of Heavy Traffic | 316 | -3.89 | 0.54 |  |
| 1990 | Initiative against Freeway between Murten and Yverdon | 360 | 3.71 | 0.09 | LESS ROAD |
| 1988 | For Restricting Immigration | 355 | -3.70 | 0.00 | LESS FOR |
| 1986 | Culture Initiative | 339 | 3.67 | 0.66 | MORE CULT |
| 2003 | Initiative for sufficient Occupational Training | 503 | 3.64 | 0.00 |  |
| 2001 | Initiative «For a voluntary civil service» | 483 | 3.63 | 0.13 |  |
| 1996 | Law on the Organization of the Executive and Administration | 431 | -3.47 | 0.41 |  |
| 1994 | Federal Resolution on Traffic Road Charges | 406 | 3.41 | 0.98 |  |
| 1994 | Federal Resolution on usage-dependent Traffic Road Charges | 407 | 3.40 | 0.22 |  |
| 1992 | Against Misuse in Gene-Technology | 378 | -3.35 | 0.57 | CONTRA GEN |
| 1994 | Law on Military forces with Peaceful Missions | 412 | 3.34 | 0.01 |  |
| 2001 | Initiative «for Taxation of Capital Gains" | 484 | 3.28 | 0.90 |  |
| 1990 | Initiative against Freeway in the Knonauer Amt | 361 | 3.27 | 0.24 | LESS ROAD |
| 2001 | Federal Law on the Army | 477 | -3.25 | 0.05 |  |
| 1993 | Federal Resolution on Federal Finances | 399 | -3.16 | 0.40 |  |
| 1987 | Law on Procedures on Initiatives with Alternative Drafts | 347 | 3.08 | 0.00 |  |
| 1999 | Law on the Insurance of Mothers | 458 | 3.07 | 0.08 | PRO MOTHER |
| 1989 | Initiative for a Switzerland without Army | 357 | 3.07 | 0.41 | LESS MILITARY |
| 1985 | New Distribution Revenvues Alcohol | 332 | -3.05 | 0.02 |  |
| 2002 | Federal Law on the Unemployment Insurance | 492 | 2.94 | 0.29 |  |
| 1995 | Law on Reducing Federal Expenses | 421 | -2.68 | 0.74 | LESS DEBT |
| 1982 | Against abusive Prices | 311 | 2.65 | 1.00 |  |
| 2001 | Initiative «for a secure Age Insurance» | 481 | 2.62 | 0.18 | ENV |
| 1998 | Federal Resolution on a new Corn Article | 446 | -2.55 | 0.11 | AGRI LIB |
| 1984 | Against the Sale of Homeland | 320 | 2.48 | 0.83 |  |
| 1992 | Federal Resolution on the European Economic Area | 388 | -2.40 | 0.34 | INT |
| 1984 | Radio and TV-Article | 324 | 2.31 | 0.00 |  |
| 2003 | Initiative «For resaonable Health Costs» | 499 | 2.21 | 0.80 |  |
| 1993 | Measures for Protecting the Social Insurances | 401 | 2.21 | 0.08 |  |
|  | Federal Resolution on Bilateral Agreements between Switzerland and the EU | 464 | -2.15 | 0.00 | INT |


| 1990 | Law on the organization of the federal judicature | 364 | -2.15 | 0.00 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1999 | Federal Resolution on a new Federal Constitution | 453 | 2.15 | 0.00 |  |
| 1999 | Federal Resolution on Regulating Transplantation Medicine | 450 | 2.13 | 0.11 |  |
| 2000 | Solar Initiative | 465 | 2.09 | 0.17 | ENV |
| 1985 | Abolishing Contributions for Corn with the Purpose of Self-Sufficiency | 333 | -2.07 | 0.08 | AGRI SUB |
| 1985 | Abolish Federal Duty to Pay for Health | 327 | -2.07 | 0.63 |  |
| 1999 | Federal Resolution on the Eligibility in the Federal Council | 449 | 2.04 | 0.08 |  |
| 1995 | Resolution on Dairy Farming | 419 | -1.95 | 0.74 | AGRI LIB |
| 1990 | Federal Resolution on the Energy Article | 367 | 1.94 | 0.72 |  |
| 1999 | Federal Resolution on Urgent Matters in the Area of Asylum | 455 | -1.88 | 0.86 |  |
| 1996 | Against the Federal Duty to buy Spirits | 428 | 1.75 | 0.95 |  |
| 1997 | Against Federal Regulations on Gun Powder | 436 | -1.70 | 0.11 |  |
| 1993 | Federal Resolution against further Increases in Health Insurance Premias | 397 | -1.59 | 0.00 |  |
| 2001 | Initiative «for a Switzerland without Army" | 482 | 1.49 | 0.14 | LESS MILITARY |
| 1993 | Law on Customs on Fuel | 389 | 1.46 | 0.02 |  |
| 1986 | Federal Solution on Domestic Sugar Industry | 341 | 1.43 | 0.53 |  |
| 1992 | Law on Paysants' Land Rights | 385 | 1.40 | 0.00 |  |
| 1999 | Federal Law on City and Regional Planning | 452 | 1.25 | 0.01 |  |
| 1998 | Federal Resolution on Funds for the Infrastructure on Public Traffic | 445 | 1.22 | 0.00 | PUB TRANS |
| 1993 | Federal Resolution for Healthy Federal Finances | 400 | -1.14 | 0.02 | LESS DEBT |
| 1994 | Law on Aviation | 409 | 1.05 | 0.00 |  |
| 2002 | Initiative "Excessive Gold Reserves for the Age Insurance" | 489 | 1.00 | 0.01 |  |
| 1997 | Initiative "Direct Democracy for Negotiations with the EU" | 434 | 0.83 | 0.10 |  |
| 1998 | Federal Resolution on Measures for Budget Balancing | 439 | 0.82 | 0.01 | LESS DEBT |
| 1996 | Federal Resolution on the union of the community Vellerat with the Canton JU | 426 | 0.80 | 0.70 |  |
| 1984 | Charges for the Use of National Roads | 317 | -0.76 | 0.91 |  |
| 2001 | Initiative «Yes to Europe!» | 474 | -0.71 | 0.44 | INT |
| 2002 | Initiative for joining the United Nations | 485 | -0.68 | 0.00 | INT |
| 2000 | Initiative for faster Direct Democracy | 460 | 0.66 | 0.00 | DD |
| 1984 | On the Compensation of Criminal Victims | 325 | 0.61 | 0.00 |  |
| 1988 | Initiative for Shorter Working Hours | 354 | -0.56 | 0.08 | MORE LEIS |
| 1984 | Protection of Motherhood | 323 | -0.39 | 0.00 | PRO MOTHER |
| 2003 | Initiative «Yes to Fair Rental Prices» | 497 | 0.39 | 0.19 | CHEAP RENT |
| 2001 | Federal Law on the Army (Cooperation in Education) | 478 | -0.37 | 0.06 |  |
| 1996 | Federal Law regulating working conditions | 433 | -0.30 | 0.31 |  |
| 2000 | Federal Resolution on the Reform of the Judiciary | 459 | -0.29 | 0.43 |  |
| 1991 | Initiative for Decreasing the Retirement Age | 372 | -0.26 | 0.06 |  |
| 1998 | Initiative «for a reasonable drug policy" | 447 | 0.12 | 0.88 | DRUG |
| 2000 | For lower Costs of Hospitals | 472 | -0.05 | 0.00 | CHEAP HOSP. |
| 1993 | Federal Resolution on Consumption Taxes | 402 | 0.05 | 0.15 |  |
| 1995 | Law on Farming | 420 | 0.00 | 0.50 | AGRI LIB |

Notes: The table reports for all the votes held between 1981 and 2003: The year of the vote, the title of the vote, the vote-number, the Gender-Gap, the PValue of a hypothesis test "Approval Survey= Approval Ballot-Box" and the Policy Area (if classified). Grey votes have been assigned to one of the 30 policy areas studied. ENV: Environmental Protection; EQUAL: Equal Rights for Women and Men; INT: joining International Organizations; DD: more Direct Democracy; AGRI LIB: Liberalizing Agriculture; AGRI SUB: Against subsidies in the Agricultural Sector; DRUG: Pro Liberalizing Drugs; PUB TRANS: Pro Public Transport; SUB PARKING: Subsidies Parking Spaces; PRO HEALTH: Against Alcohol and Tobacco; LESS FOR: Pro Restricting Immigration; PRO FOR: For facilitating Integration of Foreigners; MORE CULT: For Promoting Culture; MORE LEIS: More Leisure; ABORTION: Pro Legalize Abortion; CHEAP HOSP./PHARMA: Subsidize in the Health Sector; PRO RET AGE: Pro Increasing the Retirement Age; SAFE STREET: Pro Speed Limits; CHEAP RENT: Pro Cheaper Rental Prices; PRO SPEED: Relax Speed Limits; CONTRA NUC: Against Nuclear Energy; LESS MILITARY: Against the Army; LESS ROAD: Against further Road Construction; UNEMPL: Reduce Unemployment Benefits; PRO DISABLED: Support the Disabled; EDU: Pro Free Education; SUB HEALTH-INS.: Subsidies Premia for Health Insurance; CONTRA RET: Against Increase Retirement Age; PRO MOTHER: Protection Motherhood.

## ppendix Table 2: Votes with and without Survey Bia

|  | International Affairs |  |  | Military | Environment |  | Transport |  |  |  |  | Agriculture |  | Legal |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro Joining International Organizations | Against <br> Foreign Immigration | Pro <br> Foreign Immigration | Less Military | Protection of the Environment | Against Nuclear Energy | Against further Road Construction | Pro Speed Limits | Against Speed Limits | Against <br> Subsidies <br> Parking | Pro Public Transport | Against Subsidies Agriculture | Pro Liberalizing Agriculture | Equal Rights Women and Men | More <br> Direct <br> Democracy | $\begin{aligned} & \text { Less } \\ & \text { Debt } \end{aligned}$ |
| Female Dummy | $\begin{gathered} 0.0120 \\ (0.0211) \end{gathered}$ | $\begin{aligned} & -0.0905^{* * *} \\ & (0.0309) \end{aligned}$ | $\begin{aligned} & 0.0875 * * \\ & (0.0420) \end{aligned}$ | $\begin{aligned} & 0.0494^{* *} \\ & (0.0248) \end{aligned}$ | $\begin{aligned} & 0.0769^{* * *} \\ & (0.0158) \end{aligned}$ | $\begin{aligned} & 0.107^{* * *} \\ & (0.0219) \end{aligned}$ | $\begin{gathered} 0.0294 \\ (0.0240) \end{gathered}$ | $\begin{gathered} 0.0550^{*} \\ (0.0325) \end{gathered}$ | $\begin{aligned} & -0.0670 \\ & (0.0495) \end{aligned}$ | $\begin{gathered} 0.0863 \\ (0.0804) \end{gathered}$ | $\begin{aligned} & 0.00169 \\ & (0.0276) \end{aligned}$ | $\begin{aligned} & 0.114^{* * *} \\ & (0.0378) \end{aligned}$ | $\begin{aligned} & -0.0112 \\ & (0.0274) \end{aligned}$ | $\begin{aligned} & 0.220^{* * *} \\ & (0.0385) \end{aligned}$ | $\begin{gathered} 0.0337 \\ (0.0295) \end{gathered}$ | $\begin{gathered} -0.0313 \\ (0.0194) \end{gathered}$ |
| Number of Ballots Observations | $\begin{gathered} 5 \\ 2,833 \end{gathered}$ | $\begin{gathered} 3 \\ 1,038 \end{gathered}$ | $\begin{gathered} 1 \\ 569 \end{gathered}$ | $\begin{gathered} 5 \\ 2,089 \end{gathered}$ | $\begin{gathered} 9 \\ 4,838 \end{gathered}$ | $\begin{gathered} 5 \\ 2,377 \end{gathered}$ | $\begin{gathered} 4 \\ 1,969 \end{gathered}$ | $\begin{gathered} 1 \\ 670 \end{gathered}$ | $\begin{gathered} 1 \\ 505 \end{gathered}$ | $\begin{gathered} 1 \\ 204 \end{gathered}$ | $\begin{gathered} 3 \\ 1,472 \end{gathered}$ | $\begin{gathered} 2 \\ 688 \end{gathered}$ | $\begin{gathered} 4 \\ 1,770 \end{gathered}$ | $\begin{gathered} 3 \\ 941 \end{gathered}$ | $\begin{gathered} 4 \\ 1,548 \end{gathered}$ | $\begin{gathered} 5 \\ 2,150 \end{gathered}$ |
| Female Dummy | $\begin{aligned} & 0.00343 \\ & (0.0281) \end{aligned}$ |  |  | $\begin{aligned} & 0.0547^{*} \\ & (0.0327) \end{aligned}$ | $\begin{aligned} & 0.0686^{* * *} \\ & (0.0179) \end{aligned}$ | $\begin{aligned} & 0.0999^{* * *} \\ & (0.0288) \end{aligned}$ | $\begin{gathered} 0.0294 \\ (0.0240) \end{gathered}$ | $\begin{gathered} 0.0550^{*} \\ (0.0325) \end{gathered}$ |  |  | $\begin{gathered} -0.0237 \\ (0.0356) \end{gathered}$ | $\begin{aligned} & 0.114^{* * *} \\ & (0.0378) \end{aligned}$ | $\begin{gathered} -0.0112 \\ (0.0274) \end{gathered}$ | $\begin{aligned} & 0.206^{* * *} \\ & (0.0392) \end{aligned}$ | $\begin{gathered} 0.0355 \\ (0.0428) \end{gathered}$ | $\begin{aligned} & -0.0526^{* *} \\ & (0.0259) \end{aligned}$ |
| Number of Ballots Observations | $\stackrel{3}{1,517}$ |  |  | $\begin{gathered} 3 \\ 916 \end{gathered}$ | $\begin{gathered} 6 \\ 3,344 \end{gathered}$ | $\begin{gathered} 3 \\ 1,342 \end{gathered}$ | $\begin{gathered} 4 \\ 1,969 \end{gathered}$ | $\begin{gathered} 1 \\ 670 \end{gathered}$ |  |  | $\begin{gathered} 2 \\ 962 \end{gathered}$ | $\begin{gathered} 2 \\ 688 \end{gathered}$ | $\begin{gathered} 4 \\ 1,770 \end{gathered}$ | $\begin{gathered} 1 \\ 450 \end{gathered}$ | $\begin{gathered} 2 \\ 682 \end{gathered}$ | $\begin{gathered} 2 \\ 881 \end{gathered}$ |
|  | Subsidies Health Insurance | Pro Liberalizing Drugs | Hea Against Tobacco/ Alcohol | alth <br> Against Gen-Tech/ Animal Test. | Pro Legalize Abortion | Cheaper Hospitals/ Pharma-Prod. | Education <br> Free Education |  | Reduce Unempl. Benefits | Decrease Retirement Age | Welfare Increase Retirement Age | Support for the Disabled | Longer Maternity Leave | Culture an More Culture | Leisure More Leisure | $\begin{gathered} \hline \hline \text { Living } \\ \text { Pro Cheap } \\ \text { Housing } \end{gathered}$ |
| Female Dummy | $\begin{gathered} 0.038 \\ (0.032) \end{gathered}$ | $\begin{gathered} -0.0164 \\ (0.0323) \end{gathered}$ | $\begin{aligned} & 0.163^{* * *} \\ & (0.0263) \end{aligned}$ | $\begin{gathered} 0.0825^{* * *} \\ (0.0236) \end{gathered}$ | $\begin{array}{r} -0.0299 \\ (0.0409) \end{array}$ | $\begin{aligned} & -0.0388^{*} \\ & (0.0226) \end{aligned}$ | $\begin{gathered} 0.038 \\ (0.032) \end{gathered}$ | $\begin{gathered} 0.002 \\ (0.068) \end{gathered}$ | $\begin{gathered} -0.0488 \\ (0.0350) \end{gathered}$ | $\begin{aligned} & 0.0621^{* * *} \\ & (0.0237) \end{aligned}$ | $\begin{gathered} -0.0431 \\ (0.0482) \end{gathered}$ | $\begin{aligned} & 0.137^{\star \star \star} \\ & (0.0474) \end{aligned}$ | $\begin{aligned} & 0.0513^{*} \\ & (0.0283) \end{aligned}$ | $\begin{aligned} & 0.0868^{*} \\ & (0.0445) \end{aligned}$ | $\begin{gathered} 0.0102 \\ (0.0332) \end{gathered}$ | $\begin{gathered} 0.0109 \\ (0.0458) \end{gathered}$ |
| Number of Ballots Observations | $\begin{gathered} 3 \\ 949 \end{gathered}$ | $\stackrel{2}{1,127}$ | $\stackrel{2}{1,112}$ | $\begin{gathered} 4 \\ 2,144 \end{gathered}$ | $\begin{gathered} 1 \\ 517 \end{gathered}$ | $\stackrel{2}{1,107}$ | $\begin{gathered} 3 \\ 949 \end{gathered}$ | $\begin{gathered} 1 \\ 252 \end{gathered}$ | $\begin{gathered} 2 \\ 952 \end{gathered}$ | $\begin{gathered} 4 \\ 1,995 \end{gathered}$ | $\begin{gathered} 1 \\ 491 \end{gathered}$ | $\begin{gathered} 1 \\ 508 \end{gathered}$ | $\stackrel{2}{2}$ | $\begin{gathered} 2 \\ 556 \end{gathered}$ | $\begin{gathered} 4 \\ 1,334 \end{gathered}$ | $\begin{gathered} 1 \\ 522 \end{gathered}$ |
| Female Dummy | $\begin{gathered} 0.0744 \\ (0.0517) \end{gathered}$ | $\begin{aligned} & -0.0164 \\ & (0.0323) \end{aligned}$ | $\begin{aligned} & 0.163^{* *} \\ & (0.0263) \end{aligned}$ | $\begin{aligned} & 0.0657^{* *} \\ & (0.0268) \end{aligned}$ | $\begin{array}{r} -0.0299 \\ (0.0409) \end{array}$ |  |  |  | $\begin{aligned} & -0.121^{* *} \\ & (0.0497) \end{aligned}$ | $\begin{aligned} & 0.0692^{* *} \\ & (0.0269) \end{aligned}$ | $\begin{aligned} & -0.0431 \\ & (0.0482) \end{aligned}$ |  |  |  | $\begin{gathered} -0.0145 \\ (0.0828) \end{gathered}$ | $\begin{gathered} 0.0109 \\ (0.0458) \end{gathered}$ |
| Number of Ballots Observations | $\begin{gathered} 1 \\ 444 \end{gathered}$ | 2 1,127 | $\stackrel{2}{1,112}$ | $\begin{gathered} 3 \\ 1,685 \end{gathered}$ | $\begin{gathered} 1 \\ 517 \end{gathered}$ |  |  |  | $\begin{gathered} 1 \\ 515 \end{gathered}$ | $\begin{gathered} 3 \\ 1,509 \end{gathered}$ | $\begin{gathered} 1 \\ 491 \end{gathered}$ |  |  |  | $\begin{gathered} 2 \\ 209 \end{gathered}$ | $\begin{gathered} 1 \\ 522 \end{gathered}$ |

Notes. The table reports marginal effects from a probit model. The dependent variable is the voting decision, which is equal to one if the respondent supported the proposition and zero otherwise for the respective propositions shown in the column header. The table reports the coefficient on the female dummy. All speciications include canton and ballot fixed effects and controls as in Table 3 . The first row repeats the baseline for the full sample of votes and the second row shows results for the restricted sample of votes with no survey bias. Robust standard errors are reported in parentheses. Coefficients with "" are significant at Source: Authors' calculations.

|  | International Affairs |  | $\begin{aligned} & \hline \hline \text { Military } \\ & \text { Less } \\ & \text { Military } \end{aligned}$ | Environment |  | Transport |  |  |  | Agriculture |  | Legal (1) Equal Rights Women and Men |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro Joining International Organizations | Pro <br> Foreign Immigration |  | ```Protection of the Environment``` | Against Nuclear Energy | Against further Road Construction | Against Speed Limits | Against Subsidies Parking | Pro <br> Public <br> Transport | Against Subsidies Agriculture | Pro <br> Liberalizing Agriculture |  |
|  | Sample of Non-Voters |  |  |  |  |  |  |  |  |  |  |  |
| Female Dummy | $\begin{gathered} 0.103 \\ (0.0811) \end{gathered}$ | $\begin{aligned} & 0.00601 \\ & (0.0673) \end{aligned}$ | $\begin{gathered} 0.0794 \\ (0.0804) \end{gathered}$ | $\begin{aligned} & 0.0611^{* *} \\ & (0.0310) \end{aligned}$ | $\begin{aligned} & 0.144^{* * *} \\ & (0.0386) \end{aligned}$ | $\begin{aligned} & 0.109^{* * *} \\ & (0.0287) \end{aligned}$ | $\begin{aligned} & -0.231^{* *} \\ & (0.0717) \end{aligned}$ | $\begin{gathered} 0.158 \\ (0.156) \end{gathered}$ | $\begin{gathered} 0.0517 \\ (0.0378) \end{gathered}$ | $\begin{gathered} -0.107 \\ (0.0705) \end{gathered}$ | $\begin{aligned} & 0.0973^{* *} \\ & (0.0436) \end{aligned}$ | $\begin{gathered} -0.0120 \\ (0.0475) \end{gathered}$ |
| Observations | 58 | 238 | 204 | 1,049 | 761 | 1,145 | 253 | 60 | 826 | 233 | 588 | 389 |
|  | Sample of Voters |  |  |  |  |  |  |  |  |  |  |  |
| Female Dummy | $\begin{gathered} -0.0132 \\ (0.0391) \end{gathered}$ | $\begin{aligned} & 0.0875^{\star \star} \\ & (0.0420) \end{aligned}$ | $\begin{gathered} 0.0835^{*} \\ (0.0427) \end{gathered}$ | $\begin{aligned} & 0.0907^{* * *} \\ & (0.0242) \end{aligned}$ | $\begin{aligned} & 0.122^{* * *} \\ & (0.0297) \end{aligned}$ | $\begin{gathered} 0.0294 \\ (0.0240) \end{gathered}$ | $\begin{gathered} -0.0670 \\ (0.0495) \end{gathered}$ | $\begin{gathered} 0.0863 \\ (0.0804) \end{gathered}$ | $\begin{aligned} & 0.00169 \\ & (0.0276) \end{aligned}$ | $\begin{aligned} & 0.114^{* * *} \\ & (0.0378) \end{aligned}$ | $\begin{gathered} -0.0112 \\ (0.0274) \end{gathered}$ | $\begin{aligned} & 0.136^{\star * *} \\ & (0.0430) \end{aligned}$ |
| Observations | 829 | 569 | 659 | 2,032 | 1,311 | 1,969 | 505 | 204 | 1,472 | 688 | 1,770 | 491 |
|  | Legal (2) |  | Health |  |  |  | Welfare |  | Culture and Leisure |  |  |  |
|  | More Direct Democracy | Subsidies Health Insurance | Pro Liberalizing Drugs | Against <br> Tobacco/ <br> Alcohol | Against Gen-Tech/ Animal Test. | Reduce Unempl. Benefits | Decrease Retirement Age | Increase Retirement Age | Longer Maternity Leave | More Culture | More Leisure |  |
|  | Sample of Non-Voters |  |  |  |  |  |  |  |  |  |  |  |
| Female Dummy | $\begin{gathered} -0.0236 \\ (0.0382) \end{gathered}$ | $\begin{gathered} 0.0625 \\ (0.0507) \end{gathered}$ | $\begin{aligned} & -0.00562 \\ & (0.0511) \end{aligned}$ | $\begin{aligned} & 0.0701^{*} \\ & (0.0382) \end{aligned}$ | $\begin{aligned} & 0.0809^{* *} \\ & (0.0348) \end{aligned}$ | $\begin{gathered} 0.0161 \\ (0.0530) \end{gathered}$ | $\begin{gathered} 0.0247 \\ (0.0518) \end{gathered}$ | $\begin{gathered} -0.134^{*} \\ (0.0750) \end{gathered}$ | $\begin{gathered} 0.0518 \\ (0.0429) \end{gathered}$ | $\begin{gathered} -0.0586 \\ (0.0807) \end{gathered}$ | $\begin{aligned} & 0.0700^{*} \\ & (0.0386) \end{aligned}$ |  |
| Observations | 479 | 404 | 514 | 568 | 990 | 482 | 461 | 248 | 678 | 194 | 482 |  |
|  | Sample of Voters |  |  |  |  |  |  |  |  |  |  |  |
| Female Dummy | $\begin{gathered} 0.0281 \\ (0.0371) \end{gathered}$ | $\begin{gathered} 0.0378 \\ (0.0318) \end{gathered}$ | $\begin{gathered} -0.0164 \\ (0.0323) \end{gathered}$ | $\begin{aligned} & 0.163^{* * *} \\ & (0.0263) \end{aligned}$ | $\begin{gathered} 0.0825^{* * *} \\ (0.0236) \end{gathered}$ | $\begin{gathered} -0.0488 \\ (0.0350) \end{gathered}$ | $\begin{aligned} & 0.0580^{* *} \\ & (0.0247) \end{aligned}$ | $\begin{gathered} -0.0431 \\ (0.0482) \end{gathered}$ | $\begin{aligned} & 0.0513^{\star} \\ & (0.0283) \end{aligned}$ | $\begin{aligned} & 0.0868 * \\ & (0.0445) \end{aligned}$ | $\begin{gathered} 0.0284 \\ (0.0369) \end{gathered}$ |  |
| Observations | 384 | 949 | 1,127 | 1,112 | 2,144 | 952 | 1,521 | 491 | 1,450 | 556 | 643 |  |


 significant at the 1 percent level, while those with $\left.{ }^{* *}{ }^{*}\right)$ are significant at the 5 (10) percent level.
Source: Authors' calculations.

## Appendix Table 4: List of Propositions with Predictable Financial Consequences

## More Expenditures, Subsidies or Taxes

Less Expenditures, Subsidies,Taxes or Debt

| Increase Expenditures | Result | No. | Increase Subsidies | Result | No. | Decrease Federal Debt | Result |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Energy Article | No | 333 | Self-Supply with Corn (A) | Yes | 400 | For sound Federal Finances | Yes |
| Protection Motherhood (W) | No | 335 | Risk Guarantee for Small/Medium Enterprises | No | 421 | For Expenditures Controls | Yes |
| Culture Initiative | No | 341 | For Domestic Sugar Production (A) | No | 439 | For Balanced Budget | Yes |
| Guarantee Vocational Retraining (Edu) | No | 425 | Revision Language Article | Yes | 480 | For Debt Control | Yes |
| Railway 2000 (T) | Yes |  |  |  |  |  |  |
| Protection Moor (Env) | Yes |  | Increase Taxes |  |  | Decrease Subsidies |  |
| Change Health Insurance (H) | No | 308 | Improving Federal Budget | Yes | 326 | Against Fees for Primary School (Edu) | Yes |
| Vine Cultivation (A) | No | 312 | New Regulation Fuel Taxes | Yes | 327 | Against Federal Contributions for Health (H) | Yes |
| Energy Article | Yes | 316 | For Taxing Heavy Traffic | Yes | 328 | Resolutions on Contributions on Education (Edu) | No |
| Promoting Public Transport (T) | No | 317 | Fees for Road Use | Yes | 413 | Against Corn Subsidies (A) | Yes |
| For sound Finances of Health Insurance (H) | No | 324 | Law on Radio and TV | Yes | 428 | Against Duty on Liquor Purchases | Yes |
| Protection of Rivers and Lages (Env) | Yes | 331 | Against Canton Share in Federal Stamp Duty | Yes | 429 | Against Federal Contributions for Parking Space | Yes |
| Saving the Rivers and Lakes (Env) | No | 332 | Distribution of Revenues from Alcohol | Yes | 436 | Against "Pulverregal" | Yes |
| Construction of Railway through the Alps (T) | Yes | 371 | For Reorganizing Federal Finances | No | 437 | Financing Unemployment Insurance (W) | No |
| Salary Parliamentary Members | No | 389 | For Increasing Fuel Charges | Yes | 446 | New Corn Article (A) | Yes |
| Improve Infrastructure for Parliament | No | 399 | Resolution on Federal Finances | Yes |  |  |  |
| Promoting Cultural Activities | No | 400 | For sound Federal Finances | Yes |  | Decrease Taxes |  |
| For a new Health Insurance (H) | No | 401 | For sound Social Insurance | Yes | 384 | Change Law on Stamp Duty | Yes |
| Securing Invalidity/Age Insurance (W) | No | 405 | For Fee on Road Use | Yes |  |  |  |
| Counter-Initiative: For Ecological Agriculture | Yes | 406 | For Fees on Heavy Traffic | Yes |  | Decrease Expenditures |  |
| Re-Organisation Administration | No | 407 | Introduction of Fees for Heavy Traffic | Yes | 346 | Vote on Military Expenditures (Def) | No |
| Revision Age Insurance (W) | No | 442 | Law on Fees for Heavy Traffic | Yes | 393 | Against Fighter Planes (Def) | No |
| Infrastructure for Public Transportation (T) | Yes | 465 | For a Solar Energy Tax | No | 421 | Reduce Growth of Expenditures | Yes |
| Law on Motherhood Insurance (W) | No | 484 | For a Capital Gains Tax | No | 422 | Change Pension and Disability Laws (W) | Yes |
| For a flexible Age Insurance (W) | No |  |  |  | 427 | Canton Responsibility for Military Equipment (Def) | No |
| For flexible Retirement Age (W) | No |  |  |  | 357 | For Switzerland without Army (Def) | No |
| Equal Rights for the Disabled (W) | No |  |  |  | 471 | Reduction of Military Expenditures (Def) | No |
|  |  |  |  |  | 482 | For Switzerland without Army (Def) | No |


 the following abbreviations: (A) for agriculture, ( $T$ ) for public transport, (Env) for environment, (Def) for Defense, (W) for welfare, (H) for health and (Edu) for education.
Source: Federal Archives of Switzerland; available online at http://www.ads.bar.admin.ch/ADS.


[^0]:    1 If gender gaps were determined by income differences alone, women and men should vote similarly conditional on financial well-being. If non-economic factors such as values, attitudes and beliefs, matter and differ between men and women, gender gaps persist even when socio-economic characteristics are kept constant (see e.g. Fong, 2001; Alesina and Ferrara, 2005; Luttmer and Singhal, 2011; and Alesina and Giuliano, 2011).

[^1]:    2 A comparable data source for Europe is the Eurobarometer, a public opinion survey in the EU member states. There are however few surveys that directly ask for allocation of governmental resources. Only in the survey of March/April 1984, seventeen questions were asked whether government spending is too little/about right/ too much in a certain policy area. However, the questions do not discuss how the money would be actually spent or how the additional spending would be financed.
    ${ }^{3}$ In
    In theory, electoral competition may also diminish gender differences if politicians simply represent the preferences of the median voter. Recent empirical evidence, however, casts doubt on the Downsian view of the political process (e.g. Lee, Moretti, and Butler, 2004; Levitt, 1996; Washington, 2008; Svaleryd,

[^2]:    2009). The evidence seems to be more consistent with a framework where candidates cannot fully commit to an electoral platform (Alesina, 1988, Osborne and Slivinski, 1996; Besley and Coate, 1997).

[^3]:    4 Funk (2012) analyses in detail the survey bias of the VOX data. As it turns out, the VOX surveys are representative of the eligible voting population along various dimensions (gender, age, language). A gap between stated and real approval is therefore most likely to be caused by unobservable differences (e.g. policy preferences) or deliberate falsification. However, consistent survey biases are concentrated in a few policy areas (immigration, international integration, rights for homosexual couples).

[^4]:    ${ }^{5}$ A vote is not subject to survey bias if the null hypothesis "share yes" among self-declared voters in the survey equal to official "share yes" in the respective ballot cannot be rejected at the $5 \%$ level.

[^5]:    ${ }^{6}$ We could have added a category culture, but the votes are the same as the ones already analyzed in Table 3.

[^6]:    Notes: The table reports the marginal effects from a probit model whether the respondent supported a proposition which would have increased government spending in the respective policy area or opposed it. The classification of the financial consequences of the propositions is based on the official documents distributed by the Swiss government before the vote (see main text) Appendix Table 4 shows a list of the federal propositions underlying each column. The table reports the coefficient on the female dummy variable in each column. The controls are the same as in Table 3. Robust standard errors are reported in parentheses.
    Source: Authors' calculations.

