# Iowa Voting Series, Paper 3: An Examination of Iowa Turnout Statistics Since 1982 by Party and Sex 

© Timothy M. Hagle<br>Department of Political Science<br>The University of Iowa


#### Abstract

This is the third paper in a series examining aspects of voting in Iowa. In this paper I examine Iowa's turnout in presidential and midterm elections since 1982 with a focus on party and sex. Looking first at registration numbers I find that women led men in voter registrations by an average of 103,502 during the period. Within political parties (Democrats, Republicans, and No Party voters) there were distinct differences in registration. Republicans had the most even division with women leading at the beginning of the period and then men overtaking them and opening a lead of 47,587 by 2022. Women led No Party voters throughout the period by a fairly consistent margin averaging just under 27,000 voters. This difference was most reflective of the overall registration difference for all Iowa voters on a percentage basis. Women also led men in registered Democrats. The gap for Democrats was large at the start of the period at 40,030 voters and widened to 123,062 by the end of the period. In terms of turnout, the differences between men and women were relatively small. Republican women had the highest turnout percentage for 20 of the 21 general elections during the period. Republican men came in second in all but 1982 (where they led), 1988, and 2008. Women Democrats had a higher turnout percentage than their party's men in presidential elections, but the men had a slightly higher percentage in seven of the 11 midterm elections. No Party voters, men and women, had much lower turnout percentages in both presidential and midterm elections than either Democrats or Republicans. No Party women had a higher turnout percentage in all 10 presidential elections while men took the lead in all 11 midterm elections. The large number of No Party voters who joined a party for the June 2020 primary dramatically affected voter registration statistics but less so turnout percentages.


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## Updates

Unlike most academic papers I plan to update the data for this paper as elections occur. Data updates lead to changes in the text as well. Below is a list of the updates as they occur.

- January 2015: Initial release
- April 2015: Update to include 2014 election data (a few fixes after posting)
- March 2017: addition of 2016 election data; extension of data back to 1982 with significant changes to the text; format changes for some figures
- May 2019: Update to include 2018 election data and related text changes
- May 2021: Update to include 2020 election data and related text changes
- February 2023: Update to include 2022 election data and related text changes


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In the second paper in this series ${ }^{1}$ I examined Iowa's turnout statistics in midterm and presidential elections since 1982, in general and by party. ${ }^{2}$ In this paper I dig a bit deeper into the turnout statistics and examine them by both party and sex. As with the prior papers in this series my focus will be on the statistics involved rather than theorizing about the reasons for particular turnout percentages. Nevertheless, the goal of this paper, like the others in the series, is to examine aspects of voting in Iowa with an eye to future elections and to provide some background and context to discussions about Iowa voters.

## Data

As with the prior papers, data for this examination were gathered from the Election Results \& Statistics page of the Iowa Secretary of State's website. ${ }^{3}$ This page provides links to election results for a variety of primary and election contests in Iowa, including those for presidential and midterm elections. The turnout statistics examined here are obtained from the Statewide Statistical Reports links. ${ }^{4}$ The information in these reports

[^0]is broken out by sex and party as well as by age group. For each subgroup, the number who voted absentee is also indicated. ${ }^{5}$

Before proceeding, I need to make an additional comment about the data for this paper. The information contained in the Statewide Statistical Reports links is not entirely complete with respect to party identification. The reports contain divisions for Democrat, Republican, and No Party voters, but they do not include an "Other" category as they do for the monthly registration statistics. ${ }^{6}$ In addition, the 2002 Report did not contain a category for the Green Party, which was official for that election, but did for the Libertarian Party for the 2018 and 2022 elections. Although this was not a problem for the 1982 through 2006 elections, for 2008 and beyond it means that the grand total of registrants and voters in any particular age group cannot be achieved by simply adding the Democrats, Republicans, and No Party voters in that group. In the first paper in this series I simply added registrants in the Other category to No Party registrants. I cannot do that for this paper, however, as I have neither an exact count of such Other registrants on election day nor an indication of how many voted.
Nevertheless, although this number varies from about one to a few thousand registrants or voters depending on the category or election, that number is small, relatively speaking, and I will only focus on Democrats, Republicans, and No Party voters for this paper. ${ }^{7}$

## Iowa Registered Voters

I begin by repeating Figures 1a and 1 b from the second paper in the series. ${ }^{8}$ These figures show the number of registered Iowa voters and the turnout percentage in general elections from 1982 to 2020. This period covers 10 presidential elections and 11 midterm elections. The height of the bars represents the total number of registered voters. Except for slight declines in the late 1980s when Iowa was losing population, and a few more for midterm elections after voter list maintenance (2002, 2014, and 2018), the number of registered voters in Iowa has slowly increased in the last 40 years. ${ }^{9}$ Figure 1 b shows that the turnout percentage for the elections has been relatively steady, particularly after 1994, though there is a clear difference between presidential and

[^1]midterm years. The turnout in presidential elections has varied between 71.16\% (2016) and $86.01 \%$ (1992). Although the turnout for midterm elections has also varied within a similar range of about 15 points (a low of $52.71 \%$ in 2006 and a high of $67.48 \%$ in 1982), that range was substantially below the range for presidential elections. The average turnout in presidential years was $75.63 \%$, but only $58.20 \%$ in midterm years. Those who follow politics are well aware of the much lower turnout for midterm elections, but it is worth knowing just how substantial the difference is. This is particularly true in a state that is fairly evenly balanced between the two major parties. More specifically, knowing who turns out, especially in midterm elections, can aid parties and candidates in their get out the vote (GOTV) efforts.

The second paper then examined turnout differences by party and found, in brief, that turnout for Republicans was consistently a few percentage points higher than that of Democrats for both midterm and presidential elections. In addition, turnout for both parties was several points lower in midterm elections. In contrast, turnout for No Party voters (what Iowa calls independents) was much lower than either Democrats or Republicans, particularly in midterm elections.

As I mentioned in the second paper, it is worth noting that there are different ways of calculating turnout percentage. Some use as the baseline the voting age population. Others use the number of those who are eligible to vote (i.e., those who are old enough minus those who have lost their voting rights). For present purposes I use the number registered to vote. How many Iowans are not registered, regardless of eligibility, is a separate matter. ${ }^{10}$ I am also not considering how Iowa compares with other states in terms of turnout.

Figure 1a showed the overall voter registration numbers for Iowa. In Figure 2 we see the difference in registration numbers between men and women. ${ }^{11}$ There are two quick points to make about these registration numbers. The first is that women outnumber men among Iowa's registered voters for the entire period. Second, notice the consistency of the gap. Despite the increase in Iowa's population and registered voters during the period, the gap between registered men and women was fairly steady at an average of 103,502. The high came in 2004 when registered women outnumbered men by 117,555 . The low occurred in 2022 when the difference was 81,122 . On the other hand, and despite the overall consistency, the gap between men and women has been

[^2]reduced in every election since the high of 2004. For the 2018 election the difference of 93,920 was the second time the gap was under 100,000 since 1992 and the fourth smallest of the entire period. The drop to 83,324 for 2020 was the largest two-year change for the entire period. It is also interesting to note that reductions in the difference also occurred in the years following a census when voter list maintenance occurred. That trend continued for the 2022 data where we see that the difference was further reduced.

Of course, followers of politics are well aware of the differences between the political parties on various issues related to sex, real or alleged (e.g., "gender gap," "war on women"). Thus, the next step is to look at voter registration by party and sex. Before doing so, it is worthwhile to provide a bit more background on voter registration by party. In brief, between 1982 and 1994 the number of registered voters for Democrats, Republicans, and No Party voters were fairly even. Between 1994 and 2000 there was a dramatic surge in No Party registrants such that between 1998 and 2018 No Party voters outnumbered registrants of either Democrats or Republicans. The gap was fairly consistent between 2000 and 2007, but narrowed significantly in early 2008 so that by mid-2008 active registered Democrats came within about 2,000 of those registered as No Party. Over the next few years No Party registrants remained relatively steady while Democrats lost and Republicans gained. By the start of 2014, Democrats and Republicans had a nearly equal number of registrants and there were roughly 100,000 more No Party registrants than in either party. Many No Party voters change their party registration so they can participate in the Iowa Caucuses. This was true for 2016 when both Democrats and Republicans had open caucuses. As a result, Republicans narrowed the gap with No Party voters to a bit under 33,000 after the caucuses, but it grew to over 50,000 by early 2017. The ordering of the parties changed dramatically in 2020. Because of the pandemic, every voter in Iowa was mailed an absentee ballot request form for the June primary. No Party voters who requested a party ballot were automatically reregistered for that party. That resulted in a huge drop in the number of No Party voters and corresponding surges for Democrats and Republicans. The result was that Republicans maintained a slight lead over Democrats, but the number of No Party voters had dropped below both parties for the first time since 1994. ${ }^{12}$

In Figure 3 we see the voter registration numbers for men and women in Iowa's three main political parties (Democrats, Republicans, and No Party voters) for the 21 general elections beginning with 1982. There are several things worth noting about these numbers.

[^3]Let me start by looking at the differences within each party. We can see quite clearly that women always outnumbered men for both Democrats and No Party voters. There were also more women Republicans than men registered between 1982 and 2002 elections. Although Republican men became more numerous than Republican women for the 2004 election, the gap was small and remained so for 2006. The difference grew to 9,957 by the 2008 election and continued to expand through 2022 when it was 47,587 .

The gap between men and women was the most consistent for those registered as No Party. The average difference was 26,841 with a high of 39,733 (2004) and a low of 5,452 (2022). ${ }^{13}$ Unlike the two parties, the difference between the number of men and women registered as No Party rose and fell several times during the period. Beginning with the fifth smallest difference of 23,185 in 1982, the difference rose to 27,845 in 1988 before falling to the fourth lowest value in 1992. The difference grew slightly in 1994, but then rose dramatically in 1996 and continued to expand through 2000. For the 2002 election the difference fell slightly, but then rose to the high for the period in 2004. The difference fell over the next three elections to 25,485 for 2010, before rising slightly in 2012 and falling again in 2014, 2016, 2018, 2020, and 2022. The difference between men and women No Party voters in 2022 was 5,452 , which was 17,733 fewer than the difference at the start of the period in 1982.

One explanation for this variability (though except for 2020 and 2022 within a relatively narrow range) is that No Party voters may be more likely to switch their registration to one of the parties. Because Iowa primaries and caucuses are "closed" (i.e., you must be a registered member of a particular party to participate in a caucus or vote in a primary), No Party voters need to change their registration if they wish to participate in a particular caucus or primary for the Democrats or Republicans. After participating in a caucus or primary some voters will then change their registration back to No Party, but many do not. ${ }^{14}$ As noted previously, changes for the 2020 primary were far more dramatic than in the past. In the months following the general election there was a surge of sorts as more than the usual number of voters changed their registration back to No Party.

The voter registration gap between men and women was largest for Democrats. It starts with a low for the period of 40,030 in 1982 and grows to 123,062 by 2022. There were four elections when there was a slight reduction in the gap: 1990, 2000, 2010, and 2014. Notice that three of those four reductions occurred in midterm elections.

[^4]Although the gap between men and women has grown for both Republicans and Democrats, it grew faster and is much wider for Democrats.

Figure 2 of the second paper in the series showed that there were significant changes in voter registration by party after the 1994 and 1996 elections. Those changes are also shown in Figure 3 when looking at voter registration by both party and sex. From 1982 through 1996, women Democrats were the largest group and the other groups rose and fell below them in a fairly tight cluster. Following the 1994 election the number of No Party voters dramatically increased through 2000 so that beginning in 1998 No Party women were the most numerous group for every election through 2018 except 2008. In contrast, from 1996 on Democrat men have been the smallest group, again with the exception of 2008. The huge surge in registrations for Democrats in 2008 allowed the women to surpass No Party women and the men to surpass both Republican men and women. The lead was temporary in both cases, however, as the number of women Democrats fell by over 14,000 registrants by 2010 while the number of No Party women rose by about 3,500 to return them to a slight lead. For the Democrat men, after their surge in 2008 they lost about 12,500 registrants by 2010 while Republican men gained about 19,000 registrants and Republican women gained about 14,000.

The surge in registrations for Democrats in 2008 was not surprising given the intense interest in the Iowa Caucus race between Hillary Clinton, John Edwards, and Barack Obama. As shown in Figure 2 from the first paper in the series, the caucus surge came largely at the expense of No Party voters. In other words, many No Party voters switched their registration to Democrat to participate in the Democratic caucuses. Following the caucuses Iowa was considered a swing state for the 2008 general election and intense voter registration efforts by both parties allowed No Party voter registration to again surge so that total No Party voters (men plus women) again rose well above that of Democrats, even if Democrat women still maintained a small lead over No Party women on election day 2008.

Special mention needs to be made concerning 2020. As noted previously, the sharp drop for both No Party men and women was due to many of these voters changing their party registration by participating in the June primaries. The gap between No Party men and women narrowed from 21,519 in 2018 to 7,631 in 2020. Although men and women of both parties benefitted from the No Party voters who changed their registration, Democrat women and Republican men seemed to have benefitted the most. Democrat women increased their lead over the men in their party by more than 13,000 voters. At the same time Republican men increased their lead over the women in their party by almost 10,000 voters.

Figure 4 is divided into three parts. Figures $4 a$ and $4 b$ show the number of registered voters by sex and the number voting. Figure 4c then charts the turnout percentage for each group. The height of the bars represents the total number of registered voters for
men (Figure 4a) and women (Figure 4b). The solid portion of the bars in Figures 4a and 4 b indicates how many of that number voted.

As seen in Figure 4c, for the most part the turnout percentages of men were very similar to the overall turnout percentages seen in Figure 1. The turnout in presidential elections ranged from a low in 2016 of $69.70 \%$ to a high of $85.72 \%$ in 1992. Also like overall turnout, the turnout percentages for men in midterm elections were substantially lower, ranging from a low of $52.81 \%$ in 2006 to a high of $67.70 \%$ in 1982. Despite the lower turnout in midterm years, it was in these elections that the turnout for men was the closest to the overall turnout. In fact, for 10 of the 11 midterm elections the turnout percentage for men was slightly higher than the overall percentage.

The turnout percentages for men provide an indication of what to expect in the turnout percentages for women. In Figure 4c we see a similar pattern in that one of the lowest turnout percentages in presidential elections occurred in 2016 and the highest in 1992. For the midterm elections, the highest turnout percentage for women occurred in 1982 (as it did for men). In addition, like men the turnout percentages for women in 2006, 2010, and 2014 were nearly identical.

One interesting point of comparison between men and women is that in presidential elections women's turnout percentages were roughly two to three percentage points higher than men. Conversely, in midterm elections men turned out at a higher percentage than women, but the difference was less than one percent in all 11 years.

Before turning to the final figure it is worth a reminder that one cannot look at turnout without considering overall registration. For example, although the 2004 turnout percentage was a few points higher for both men and women (and thus overall) than in 2008, the higher number of registered voters in 2008 meant more actually voted. As another example, although the turnout percentage for women was nearly identical in 2006 and 2010, over 35,000 more women voted in 2010 because there were about 67,000 more women registered for the latter election.

Having looked at the turnout differences between men and women in Figures 4a through 4 c , the next step is to examine differences within each party. Figure 5 plots the turnout percentage by both party and sex.

Like overall turnout by party (see Figure 3 of the second paper), we see that Republicans had higher turnout percentages than those registered as Democrat or No Party. Republican women had the highest turnout percentage in 20 of the 21 elections. The sole exception was 1982 where Republican men had a slightly higher turnout percentage, $75.89 \%$ to $75.55 \%$. Of course, this means that unlike the overall turnout percentages where men had higher percentages than women in 10 of the 11 midterms
(2018 being the exception), Republican women had higher turnout percentages than Republican men in 10 of the 11 midterms ( 1982 being the exception).

Similar to the overall turnout differences between men and women, the difference between Republican men and women was largest in presidential election years and very small for midterm elections. Other than the 1982 election in which they had the highest turnout percentage, Republican men had the second highest turnout percentage in all but two elections: the 2008 presidential election when women Democrats surpassed them by about half a percentage point and the 1988 presidential election in which both men and women Democrats had a slightly higher turnout percentage.

As noted in the second paper, turnout for Democrats generally tracked just below that of Republicans, with the exceptions of the Republican wave years of 1994, 2010, and 2014 where it was several percentage points lower.

The turnout difference between Democrat men and women followed a pattern similar to that of Republicans. Democrat women had a higher turnout percentage in presidential elections, but were nearly equal to Democrat men in midterm elections. Unlike Republican women, however, the turnout of Democrat women was below that of Democrat men for seven of the midterm elections (all but 2010, 2014, 2018, and 2022).

The overall turnout percentage for No Party voters was much lower than those registered to either of the other parties, particularly in midterm elections. As with Republicans and Democrats, women registered as No Party turned out at a higher percentage in presidential elections than No Party men. Interestingly enough, in the presidential elections through 2000 the difference between No Party men and women was less than two percentage points. In the four presidential elections prior to 2020 the difference was at least three and once even over four points. In 2020 men closed the gap a bit and were only $1.46 \%$ lower than women.

In midterm elections the turnout of No Party women fell below that of the men in all 11 years. The difference between No Party men and women was very close in all 11 midterms. For eight of the midterms it was less than a percentage point. In two of the remaining three it was less than one and a half points.

A final point to make regarding Figure 5 is to note that the midterm turnout percentage for Democrats did not recover from the low of 2010 with the next midterm. The 2014 election did not have the same wave feel for Republicans before Election Day as 2010 did and this seems to have been reflected in the slightly lower turnout percentages of Republican men and women. During the 2014 campaign many Democrats, all the way to President Obama, frequently commented on lower turnout for Democrats in midterm elections as a means of encouraging turnout. Despite these efforts, the turnout percentage for Democrat men for 2014 was actually lower than 2010. Women

Democrats did have a slightly higher turnout percentage in 2014 than 2010, but the group that gained the most were No Party women, who were up by $1.69 \%$. Democrat turnout did increase in 2018 to its highest midterm level since 1990, but turnout was higher for Republicans and No Party voters as well.

## Concluding Comments

According to US Census estimates for 2022, women made up 49.8\% of Iowa's roughly 3.2 million citizens. ${ }^{15}$ That results in about 13,000 fewer women than men. Given that the registration gap between men and women has been fairly consistent at nearly 100,000 or more since at least 1982, it is clear that women register at a higher percentage than men.

Within political parties registration was the most even among Republicans. The gap between men and women registered as No Party was the most reflective of the overall difference in registrations. There was a wide and growing gap among Democrats with the difference between men and women nearly equal to the entire difference across all parties.

Of the six groups (by party and sex), all experienced a net gain in voter registrations during the period. Republican men had the largest gain during the period with 173,270 additional registrants. They were closely followed by No Party men who had 135,177 more. Democrat women came in third with 123,631 additional voters. No Party women were fourth $(117,444)$ followed by women Republicans $(96,546$. Democrat men gained the least during the period with only 40,599 additional voters. I must note, however, that this ordering was almost completely changed due to the dramatic movement in voter registration prior to the 2020 election and changed again for 2022. Prior to 2020 it was No Party men and women who had gained the most. The only similarity between the recent orderings was that Democrat men gained the least in them.

As a percentage of Iowa voters, the surges in Republican men registrants for the 2016 and 2020 elections gave them the biggest gain for the period, up $3.13 \%$ to $18.13 \%$ of all registered voters. No Party men was the only other group that gained during the period, but by only $1.11 \%$. No Party women lost the least, down by only $0.14 \%$. Women Democrats were close behind at $0.16 \%$. Republican women also lost less than a percent at $0.86 \%$. Democrat men lost the most at $3.08 \%$. Again, these percentages of the share of Iowa voters were quite different before the 2020 election as can be easily seen from the raw numbers presented in Figure 3.

[^5]After the significant increase in No Party voters for both men and women following the 1994 election their gains leveled off. As I noted in a prior version of this paper, since 2000 No Party voters (men and women) experienced the biggest decline in their percentage of Iowa voters during the period. Even so, they still made up $34.52 \%$ of Iowa voters (as of the 2022 election). Despite the slight decline in percentage given that the remaining voters were nearly evenly split between Democrats and Republicans, No Party voters continue to be critical to Iowa election outcomes.

In the second paper we saw that Republicans generally vote at a slightly higher rate than Democrats, but registrants of both parties have a much higher turnout rate than those registered as No Party, particularly for midterm elections. Within each party women tended to turnout at a higher rate than men. This was true for all 10 of the presidential elections in this period. It was also in the presidential elections where the difference in the turnout percentage was the greatest between men and women. The turnout difference between men and women was much smaller in midterm elections and this was where we saw slight differences among the parties. Republican women had a higher turnout percentage than Republican men in 10 of the 11 midterm elections. For Democrats, women only had a very small lead in four of the 11 midterm elections. The midterm difference between men and women was about the same for No Party voters as it was for Republicans, but No Party men had a higher turnout percentage for all 11 midterms.

The importance of No Party voters to the outcomes of Iowa elections highlights the importance of get out the vote efforts. This is because No Party voters have the lowest turnout among the three parties as well as the greatest variability between presidential and midterm elections (i.e., the greatest drop in turnout percentage from presidential to midterm elections).

Along these lines, in the prior paper in the series I noted the consistency of voting for No Party voters in midterm elections. Even though the No Party turnout percentage has been much lower than that of the other parties, and the drop in turnout from presidential election years has been larger, it was more consistent in the midterm elections since 1998. For Democrats and Republicans we might expect their turnout to rise or fall depending on whether the base was energized or dispirited, particularly in midterm elections. Thus, it is not surprising that Republican midterm turnout was a bit down in 2006 (a wave year for Democrats), but up in 2010 (a wave year for Republicans). Although the Democrats' turnout in 2006 was not as high as we might have expected, it was certainly down in 2010 and again in 2014. The consistency of No Party midterm turnout is contrary to this pattern (though it was up in 2018). This is particularly noteworthy given the much closer turnout rates between men and women in midterm elections. Of course, general turnout statistics cannot tell us whether the same people are voting in each of the midterm elections, but the fact that the turnout was more consistent for No Party voters than those of either political party reminds us
that for these unaffiliated voters it is not just a matter of how many vote, but who they vote for.

Finally, it may be that the dramatic number of party changes in 2020 were an outlier given the circumstances. In the months following the election many voters switched their registration back to No Party and No Party registrations tend to dominate new registrations. It took a little time, but their numbers have grown above those of either party once again (when counting active and inactive voters).

Figure 1a: Turnout numbers for lowa Registered Voters in Elections Since 1982


Figure 1b: Turnout Percentage of lowa Registered Voters in Elections Since 1982


Figure 2: Iowa Registered Voters by Sex in Election Years Since 1982





Figure 4c: lowa Turnout Percentage of Men and Women in Election Years Since 1982


Figure 5: lowa Voter Turnout Percentage by Party and Sex in Election Years Since 1982



[^0]:    ${ }^{1}$ The most recent versions of all papers in the series are currently available at http://www.profhagle.com/papers/iowa-voting-series. (This and other links were valid as of the date this paper was posted.) Although I make references to prior papers in the series, I would like each to stand on its own. Thus, some explanatory material will be repeated from one paper to the next to provide background or context.
    ${ }^{2}$ When I refer to turnout in "presidential elections" or "midterm elections" it is a shorthand way of referring to turnout in that year in general, not for a particular contest. Certainly some who vote in a particular election do not do so for every contest. As noted below, the data considered here are from statewide turnout statistics not from any particular contest except when a particular race is used as an example.
    ${ }^{3}$ Election results and statistics from 2000 to the present can be found at http://sos.iowa.gov/elections/results/index.html. Results for earlier elections can be found at https://sos.iowa.gov/elections/results/archive.html.
    ${ }^{4}$ For example, the turnout statistics for the 2000 presidential election can be found at http://sos.iowa.gov/elections/pdf/2000StateWithLinnDemo.pdf. On February 8, 2017, an article in the Des Moines Register indicated that 5,842 absentee ballots in Dallas County went unreported. The article seems to indicate that the missing ballots did not affect turnout statistics, only vote totals in the various races.

[^1]:    ${ }^{5}$ Without getting into the specifics, "absentee" voting in Iowa takes several forms, including traditional mail-in absentee voting plus early voting at satellite stations and at the offices of the county Auditors. ${ }^{6}$ "No Party" is what Iowa calls its independents. It seems a little odd to refer to unaffiliated No Party voters as a party. In earlier versions of some papers in the series I referred to the party registration choices as "categories." That proved somewhat cumbersome, so as I update this and later papers in the series I may sometimes use "party" to include No Party voters.
    ${ }^{7}$ I should note, however, that although I did not include Libertarians with No Party voters for the 2018 data, I did for 2022.
    ${ }^{8}$ It is a bit inconvenient for readers, but to make the figures larger I will put them at the end of the paper rather than within the text.
    ${ }^{9}$ See the first paper in the series, which examines Iowa voter registration figures since 2000, for more details (http://www.profhagle.com/papers/iowa-voting-series).

[^2]:    ${ }^{10}$ Clearly the turnout efforts of campaigns focus on registering people to vote as well as getting them to cast a ballot. Nevertheless, those already registered are likely to be more interested in the political process than those not registered. Identifying and registering those who are eligible is an additional process that requires treatment separate from the focus of this paper.
    ${ }^{11}$ The Iowa Secretary of State turnout statistics has also included an "Unknown" category for sex. The number in this category has been relatively small, ranging from a high of 222 in 2004 to a low of zero in 2022 (given that the category was not included). The figures in this category are not included for the discussion in this paper.

[^3]:    ${ }^{12}$ See the prior two papers in this series for more details, particularly Figure 2 in each paper. Figure 2 in the first paper shows monthly registration totals by party. Figure 2 in the second paper shows registration numbers by party for the general elections from 1982 to present.

[^4]:    ${ }^{13}$ Again, I am including Libertarians with the No Party voters. There were nearly 4,000 more men registered as Libertarians.
    ${ }^{14}$ No Party voters who change to a party but do not change back is one reason why although No Party voters dominate the 18-24 age group, in the 65+ age group they are by far the least numerous. See Figures 3a to 3e in the fourth paper in the series for more details
    (http://www.profhagle.com/papers/iowa-voting-series/).

[^5]:    ${ }^{15}$ See this Census QuickFacts on Iowa:https://www.census.gov/quickfacts/fact/table/IA\#.

