

# Do Elected Councils Improve Governance?

## Experimental Evidence on Local Institutions in Afghanistan

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## Abstract

Using data from a field experiment in 500 villages, this paper studies how local institutions affect the quality of governance, as measured by aid distribution outcomes. In villages where elected councils exist and manage distributions, aid targeting improves. However, if the distribution is not clearly assigned to either the council or customary leaders, the creation of elected councils

increases embezzlement and makes decision-making less inclusive. Requiring that women manage the distribution jointly with customary leaders also increases embezzlement. Thus, while elected councils can improve governance, overlapping mandates between new and existing institutions may result in increased rent-seeking.

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# Do Elected Councils Improve Governance? Experimental Evidence on Local Institutions in Afghanistan<sup>1</sup>

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## I. Introduction

Various studies provide empirical evidence asserting that institutions play an important role in determining development outcomes (Sokoloff and Engerman, 2000; Acemoglu et. al., 2001; Banerjee and Iyer, 2005). However, there nonetheless exists uncertainty as to what specific political institutions affect governance quality and of the effects of specific institutional reform (Pande and Udry, 2006). Empirical investigation of the effects of political institutions at the national level is complicated by the fact that in the real world institutional changes are highly endogenous and involve many elements that are bundled together and change at the same time (Acemoglu, 2005; Acemoglu and Johnson, 2005). At the local level, however, causal effects of variation in specific institutions is sometimes made possible by direct manipulation of local governance procedures (Olken, 2010) or exploitation of existing exogenous variation (Chattopadhyay and Duflo, 2004).

This study focuses on one such instance of exogenous change in local institutions whereby the creation of elected councils was randomized across 500 villages, with control villages retaining customary governance structures. To identify the effects of this variation on the quality of local governance, we organized village-level food aid distributions approximately four years after the creation of the councils. The outcomes of food aid distributions provide an appropriate measure of local governance quality as such distributions are a standard public service commonly performed by village leaders in rural Afghanistan and have important economic consequences for villagers. Compared to other governance services provided by village leaders, distributions generate outcomes that are quantifiable and objective, and which are comparable across villages with differing structures of governance. In particular, we examine the effects of the institutional variation on aid targeting (i.e. whether the food aid reached the neediest households), the incidence of embezzlement and nepotism, and the inclusiveness of the process by which it was decided which households received food aid.

Theoretically, there are several channels through which the creation of elected councils may affect local governance. The creation of councils can have a direct effect on governance outcomes if council members assume responsibility for the provision of local governance services and behave differently than customary leaders. However, even if customary leaders retain governance responsibilities, the creation of democratic councils may indirectly affect local governance outcomes by changing the behavior of customary village leaders. Governance outcomes may also be affected by the increased involvement of underrepresented groups. In Afghanistan, women are traditionally excluded from local governance, but were mandated to participate in the elected councils, which reserved half of the council seats for women.

To explore the mechanisms by which council creation affects local governance, we introduced randomized variation in how the distribution was managed. Specifically, in villages with elected councils, we varied whether the council was mandated to manage the distribution, as opposed to the distribution being overseen by the *de facto* village leadership (that is, those persons identified as leaders by villagers). In villages without elected councils, we varied whether women were requested to participate in addition to the *de facto* village leadership. By comparing outcomes in these four groups of villages, we are able to isolate the effects of: (i) the management of the distribution by the elected council; (ii) the existence of elected councils *per se* (without an explicit requirement on who manages the distribution); and (iii) mandating female participation in the distribution.

The results of the study indicate that, compared to outcomes in villages without councils and in which the distribution was managed by the traditional leadership, the management of the distribution by elected councils improves the targeting of food aid but does not affect levels of embezzlement or the inclusiveness of decision-making. However, the existence of a democratic council *per se* (without a clear mandate on who assumes responsibility for the distribution) increases embezzlement, renders decision-making less inclusive,

and does not change targeting, relative to outcomes in villages without elected councils. Mandating female involvement has a similar effect, with increases in embezzlement and no change in targeting or participation. Overall, the results suggest that democratic councils improve the quality of governance, but only if there is no ambiguity over the division of responsibility among the various governance bodies. Alternately, the creation of parallel institutions without a clear division of responsibilities can lead to an increase in rent-seeking by local leaders.

The finding that elected councils, when suitably empowered, can have a positive impact on governance is aligned with recent findings on the effects of democratization. Specifically, our results are consistent with those of Martinez-Bravo et. al. (2012), which finds that elections in Chinese villages improved public goods provision and increased redistribution.<sup>2</sup> However, the mechanisms behind the two sets of results appear to be different. While the effect of elections in Chinese villages was driven primarily by an increase in leader incentives (Besley and Case, 1995; Besley and Coate, 2003; Dal Bó and Rossi; 2008; Ferraz and Finan, 2011), the effect in Afghanistan seems to be driven more by the ability of villagers to select better candidates (Besley, 2006, Besley and Reynal-Querol, 2011).

The finding that the quality of governance depends on the way responsibilities are assigned between different governance bodies provides evidence consistent with the theoretical literature on the effects of governance structure on corruption (Shleifer and Vishny 1993; Persson, Roland and Tabellini 1997). When elected councils are created in parallel with customary institutions and there is no clear assignment of responsibilities between the two sets of institutions, this increases the number of decision makers that can extract rents. Because of the common pool problem, this leads to an increase in the total amounts of rent extracted. Our paper is also related to the literature on the transplantation of institutions, as it shows that even transplanted democratic institutions can improve governance, but only in tasks in which they assume full responsibility (Hayek 1960; Berkowitz et. al. 2003; Acemoglu et al. 2011). Finally, our study contributes to the literature on the effects of community-driven development programs on governance outcomes (e.g. Labonne and Chase 2008; Fearon et. al., 2009, 2011; Casey et. al., 2012).

This paper is structured as follows: Section II provides background information on the National Solidarity Program, local governance, and food distributions in rural Afghanistan; Section III describes the research design; Section IV outlines the hypotheses for our study as previously outlined in our pre-analysis plan; Section V presents the relevant data sources; Section VI outlines the specifications used to test the proposed hypotheses; Section VII describes the results, Section VIII discusses the results; and Section IX concludes.

## **II. Background Information**

### *II.1 - National Solidarity Programme*

This experiment is embedded within the randomized impact evaluation of the National Solidarity Programme (NSP), which creates the elected councils under study.

Following the ousting of the Taliban in 2001, the Government of Afghanistan developed NSP to build representative and gender-inclusive institutions for local governance and to deliver critical services to the

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<sup>2</sup> Cross-country evidence on the effects of democracy is inconclusive. Some studies find that democracy leads to higher human capital (Tavares and Wacziarg, 2001), lower inequality (Li, Squire, and Zou, 1998; Tavares and Wacziarg, 2001), higher wages (Rodrik, 1999), better health outcomes (Besley and Kudamatsu, 2008; Kudamatsu, 2012), which is consistent with the theoretical predictions in Acemoglu and Robinson (2000, 2001, 2006), Boix (2003), Lizzeri and Persico (2004), and Besley and Kudamatsu (2008). Gil, Casey, and Sala-i-Martin (2004), however, find no relationship between democracy and several measures of redistribution and public goods provision that they use. The effect of democracy on economic growth is either positive (Persson and Tabellini, 2007; Papaioannou and Siourounis, 2008) or negative (Barro, 1996; Tavares and Wacziarg, 2001) depending on the empirical methodology.

rural population. Since its inauguration in 2003, NSP has been implemented in over 32,000 villages across all 34 provinces of Afghanistan, making it the largest single development program in the country. The program is executed by the Government of Afghanistan, funded through the Afghanistan Reconstruction Trust Fund, and implemented by NGOs.

NSP employs the community-driven model of aid delivery, and is structured around two major interventions at the village level: (i) the creation of a Community Development Council (CDC); and (ii) the disbursement of block grants to support project implementation. In order to facilitate the creation of representative institutions for village governance, NSP mandates that CDCs be gender-balanced and created through a secret-ballot, universal suffrage election. Once councils are formed, NSP disburses block grants, valued at \$200 per household up to a village maximum of \$60,000, to support the implementation of projects selected by the council in consultation with the village community. Projects are ordinarily focused on either the construction or rehabilitation of infrastructure, such as drinking water facilities, irrigation canals, roads and bridges, or electrical generators; or the provision of human capital development, such as training and literacy courses.

NSP intends to provide repeat block grants to participating villages, although villages receive no firm guarantees of when – or if – they will receive these. The process for conducting follow-up elections for the council is also uncertain. According to NSP rules, villages are supposed to hold re-elections for council positions every four years in order to be eligible for receiving repeat block grants, but the credibility of this requirement is questionable. By the end of 2012, no information was available on re-elections being held in any of the villages in the study, which created councils by early 2008. Given this and the general uncertainty, which accompanies planned future development activity in Afghanistan, villagers perceive NSP as a one-shot event, which does not provide strong reelection incentives to council members.

## II.2 - Customary Local Governance Structures in Afghanistan

Afghanistan's central government has historically lacked the legitimacy and resources necessary to extend institutional structures or provide public goods to the country's far-flung and ethnically diverse rural areas (Barfield, 1984). This has left the Afghan countryside bereft of formal local governance structures. However, informal yet sophisticated structures of local governance have evolved to protect local interests and provide local public goods (Pain and Kantor, 2010).

A tri-partite customary local governance structure is common throughout the country. The foundation of local governance is the local *jirga* or *shura*, a local council that meets on an *ad hoc* basis to resolve a local dispute or other issue (Nojumi et. al. 2004). Council members tend to be the elders of families in the village (Rahmani 2006) and decision-making is by consensus (Boesen 2004). Villages also ordinarily have a headman (termed a *malik*, *arbab*, or *qariyadar*) - usually a large landowner - who represents the village to government (Kakar 2005). The local religious authority or *mullah* is responsible for conducting rites and services and mediating disputes involving family or moral issues (Rahmani 2006).

Qualitative studies suggest that the behavior of local leaders is constrained by the checks and balances that exist between the three entities, resulting in generally high levels of legitimacy and provision of local public goods (Brick, 2008). Pain and Kantor (2010) report that headmen are occasionally deposed due to errant behavior and are often accountable to villagers, although the variation in economic inequality within villages produces substantial variation in local governance, with cases of near-absolute political authority by land-holding local elites.

Across Afghanistan, the role served by women in local governance is universally marginal. With the partial exception of regions dominated by the *Hazara* ethnic minority, the principal of *pardab* - which stipulates that women should be hidden from public observation – precludes involvement by women in communal

gatherings (Brick, 2008). Local governance is thus a strictly male-dominated activity, with women only being allowed to participate in unusual circumstances, such as when they act on behalf of a deceased husband (Boesen, 2004).

### *II.3 – Elected Councils and Local Governance in Afghanistan*

Elected councils created by NSP differ from customary local governance structures in the mode of selection. While elected councils are composed by a secret ballot, universal suffrage election, the position of headman and other customary local governance positions are ordinarily inherited or otherwise derived on account of land holdings or other forms of economic authority. As elected councils implementing NSP-funded projects and thus have control over what is an unprecedented amount of resources for villages, elected councils assume substantial *de facto* authority.

Evidence from the NSP impact evaluation indicates a substantial overlap between elected councils and pre-existing elites. Specifically, 40 percent of council members and 70 percent of council leaders were previously identified by villagers as *de facto* village leaders, although villagers elected to councils are on average younger and better educated (Beath et. al. 2012). While there is some shift of local governance responsibilities from customary leaders to elected councils, the magnitude of these changes is of limited practical significance (Beath et. al., 2010). Accordingly, the evidence indicates that elected councils do not fundamentally alter the activities of customary institutions. Councils do, however, improve the access of women to local governance services, as well as their perception of local governance quality (Beath, Christia, and Enikolopov 2012).

Existing qualitative studies provide conflicting evidence on whether customary power-holders have captured elected councils and whether the new institution brings about changes in the identity of the village leadership. Various observers provide accounts of customary leaders attempting to subvert council elections (Boesen, 2004; Brick, 2008; and Noelle-Karimi, 2006), indicating that leaders indeed covet council positions but are not constrained by electoral accountability. Barakat (2006) also observes that, while some younger and more educated villagers are elected to councils, customary elites remain influential. Brick (2008) concludes, on the basis of qualitative and non-experimental quantitative research, that council creation degrades provision of local public goods due to a weakening of accountability structures between local elites and villagers.

### *II.4 - Wheat Distribution in Afghanistan*

According to the UN's World Food Program (WFP), between a fourth and a third of the population of Afghanistan are considered food insecure.<sup>3</sup> To alleviate food shortages, WFP and other humanitarian agencies regularly deliver food assistance to poor or otherwise vulnerable communities. Due to Afghanistan's varied topography and pockets of insecurity, local governance institutions (including both elected councils and customary local governance bodies) regularly facilitate distributions for WFP and other agencies.

The clientelistic nature of Afghan politics – and the difficulties of monitoring distributions given poor transportation and telecommunication infrastructure and the low capacity of sub-national institutions – results in alleged diversions of food aid by local governance actors, sub-national government figures, line ministries, and police. Saltmarshe and Medhi (2011) estimate that more than a third of food aid is sold in the local markets instead of being delivered to the intended beneficiaries.

Thus, despite the importance of food aid distributions to the welfare of the rural population, they are also a vehicle for predation and diversion. Measures of aid targeting and diversion thus capture outcomes critical

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<sup>3</sup> In a prior survey of a random sample of villagers in the 500 villages, 48 percent of respondents indicated that members of their household were hungry at least one day during the previous week.

to the welfare of vulnerable villagers, but which are directly under the control of the behavior of village leaders. Importantly, as the responsibility for distributing food aid is not specifically assigned to elected councils, elected councils are not expected to have developed specialized expertise in managing food aid distributions. Importantly, this provides the study with the ability to identify the effect of elected councils on the behavioral incentives facing different groups of local leaders, rather than inadvertently capturing the effect of capacities or skills imparted to individual leaders by NSP.

### III. Research Design

#### *III.1 - Sample and Randomization of NSP*

Variation in elected councils is provided by the randomized impact evaluation of NSP, which is a multi-year study designed to assess the effects of the program on a broad range of economic, institutional, and social indicators. Ten large districts with no prior NSP activity and satisfactory security conditions were selected for inclusion in the evaluation. The districts cover all major regions of Afghanistan except the south, which could not be included due to adverse security conditions (see Figure 1). The sample is also representative of Afghanistan's ethno-linguistic diversity, with five predominantly Tajik districts, four predominantly Pashtun districts, one predominantly Hazara district, and two districts with substantial Uzbek and Turkmen minorities.<sup>4</sup>

In each of the ten sample districts, NSP facilitating partners selected 50 villages for inclusion in the study, which were randomly assigned to treatment and control groups of equal size. To improve statistical balance, a four-stage matched-pair cluster randomization procedure was applied:

1. Village Clusters: To minimize spillovers between treated and untreated units, villages located within 1 kilometer were grouped in clusters. Of the 500 villages, 107 were assigned to 41 clusters. The number of villages in each cluster ranged from two to six.
2. Matched Pairs: In each district, the 50 villages were divided into 25 pairs using an optimal greedy matching algorithm (King et. al. 2007), which matched villages on background characteristics provided that the villages were not in the same cluster.<sup>5</sup>
3. Assignment of Treatment: In each matched pair, one village was randomly assigned to receive the program, such that the clusters of villages were assigned the same treatment status.
4. Violations of Clustering Restrictions: In a few districts, the large number of clustered villages precluded the co-assignment of clustered villages to the same treatment status. For cases for which co-assignment without violation of clustering restrictions was not possible, the number of violations was minimized through simulation.

Villages in the treatment group received NSP and elected councils following the administration of a baseline survey in September 2007, with the remaining 250 control villages not receiving NSP or elected councils until spring 2012, at which point all data collection activities for the study were concluded.

In addition to the variation in the existence of councils, we also introduce variation in the procedures of the food aid distribution (see Section III.3 below).

#### *III.2 - Wheat Distribution and Data Collection*

To identify the effects of elected councils on local governance, we organized a food aid distribution across the sample of 500 villages between June and October 2011, approximately three-and-a-half years after

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<sup>4</sup> An assessment of the demographic and economic characteristics of the 500 villages reveal few substantive differences with those of a random sample of villages surveyed by the 2007-08 National Risk and Vulnerability Assessment.

<sup>5</sup> The background characteristics included village size (based on data collected a few years earlier by Afghanistan's Central Statistics Organization) and a set of geographic variables (distance to river, distance to major road, altitude, and average slope).



councils had been elected. Food aid (wheat) was delivered to village leaders, who were responsible for distributing it to vulnerable households. Wheat was donated by USAID and WFP assisted with distribution logistics. Each village was given enough wheat for one sixth of the village households for half a month.<sup>6</sup>

The distribution and data collection necessitated three visits to each village:

**First Visit:** At the first visit, a distribution agent convened a short meeting with village leaders, at which they were informed of the amount to be delivered and asked to prepare a list of recipients (with corresponding amounts), to be collected when the aid is delivered three days later. As described in Section III.3, we induced randomized variation in how village leaders were selected for the meeting.

**Second Visit:** Three days later, independent contractors hired by WFP delivered the allocated wheat to village leaders and collected the recipient list. In order to limit any effect on distribution outcomes of monitoring of the distribution, wheat was delivered to village leaders identified during the first visit and there were no attempts to observe the delivery of the wheat to households selected by the village leaders.

**Third Visit:** Ten days after the delivery, a team of enumerators made an unannounced visit to the village to administer household surveys designed to collect data on distribution outcomes.<sup>7</sup> These surveys were directed to three groups of villagers: i) a random sample of village households; ii) a random sample of households listed as recipients by the village leaders (listed recipients); and iii) a random sample of households that the random sample of village households indicated had received wheat but that were not listed by village leaders (peer-reported recipients).<sup>8</sup>

All three sets of questionnaires were administered to a male and a female respondent in the same household. Questionnaires, which were identical across the three groups, collected basic demographic and socioeconomic data on respondent's household, as well as information on the wheat distribution and characteristics of recipient households. An average of 27 male and female surveys were conducted in each village, encompassing an average of 14 surveys of randomly selected village households, 10 surveys of randomly selected listed recipients, and 5 randomly selected peer-reported recipients.

### *III.3 - Variation in Management of Distribution*

As noted above, elected councils may affect local governance – and, by extension, aid distribution outcomes – either directly by affecting the composition and/or indirectly by changing the behavior of the village leadership. To isolate these two effects, randomized variation was induced in the procedures for the first visit to villages with elected councils. In half of NSP villages, male and female elected council members were invited to the meeting by the distribution agent and asked to select recipients and distribute aid (such villages are collectively referred to as, ‘mandated council’ villages). In the other half of NSP villages, ‘village leaders’ were invited to the meeting and asked to select recipients and distribute aid (such villages are referred to as ‘non-mandated council’ villages). Village leaders ordinarily include the village headman and members of the customary village council. Elected council members were not specifically invited, so they were included only in villages in which they were considered village leaders. This randomized variation is used to identify the effects of mandating council management of the distribution (see Figure 2).

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<sup>6</sup> The decision rule was not shared with villagers or leaders, who were only informed of the total amount of food aid designated to their village. The exact amount was determined based on WFP guidelines of 81 kg per household of six per month. Village allocations were rounded up to the closest multiple of 50 kg as this was the size of sacks in which wheat was distributed. The average amount of wheat distributed in each village was 1,100 kg.

<sup>7</sup> To prevent information about the survey from spreading across villages, we surveyed all the villages in a district as quickly as possible, while also surveying them in a sequence that would minimize the geographic spread of information about the survey.

<sup>8</sup> As the surveys of wheat recipients are not representative of the average villager, we use information from these surveys only to measure characteristics of recipients.

In addition to the effect of mandating elected council involvement in the distribution in NSP villages, we are also interested in the effect of mandating female involvement in the distribution in non-NSP villages.<sup>9</sup> To identify this effect, in half of the non-NSP villages, i.e. villages without elected councils, both male village leaders and prominent women in the village were invited to the meeting and asked to select recipients (these villages are referred to as ‘mandated female non-council’ villages). In the other half of non-NSP villages, village leaders were convened, without explicitly asking women to participate (these villages are referred to as ‘standard non-council’ villages). This randomized variation is used below to identify the effects of mandating female participation in the distribution.

#### *III.4 - Pre-Analysis Plan*

In order to limit the risks of mining data and specifications, our analysis follows a pre-analysis plan that describes all the hypotheses, expected outcomes and exact indicators, outlines the appropriate econometric specifications, and references the use of mean effects.<sup>10</sup> The pre-analysis plan was archived using The Experiments in Governance and Politics Network design registration tool on 17 January 2012 while data entry was being carried out, but before any data analysis had started. The plan with the time stamp is available at <http://e-gap.org/design-registration/>.

### **IV. Hypotheses**

This section presents the hypotheses formulated in the pre-analysis plan. The main hypothesis is that the creation of gender-balanced, democratically-elected councils, improves governance by making leaders more responsive to the needs of ordinary villagers and less likely to divert public resources for private benefit. The effect may be driven either by elected councils directly assuming responsibility for local governance, indirectly affecting the behavior of customary leaders, or a combination of both. In the context of a food aid distribution, it is expected that these effects will result in a higher proportion of aid reaching needy households (i.e., improved targeting), less embezzlement and nepotism (i.e., less diversion), and a more participatory decision-making process.

Although the creation of elected councils increases the probability that the council manages the distribution, it does not guarantee it. Specifically, distributions in villages with elected councils may still be managed by the headman or by tribal elders. In order to separate the direct effect of council management from the indirect effects of council creation, we draw upon the randomized variation induced within villages with councils over whether the council was mandated to select recipients. Specifically, the difference between outcomes between ‘mandated council’ and ‘non-mandated council’ villages indicates the direction of the direct effect, while the difference between non-mandated council villages and ‘standard non-council’ villages indicates the direction of the combination of direct and indirect effect. As we expect that both the direct and indirect effects of elected councils will improve governance quality, mandating council management of the distribution is expected to improve targeting, reduce diversion, and increase participation.

An additional institutional change induced by the mandating of council management of the distribution is the mandating of female participation, as both female and male elected council members are asked to participate in overseeing the distribution. To isolate the effect of mandating female participation, we utilize the randomized variation induced within non-council villages as to whether or not women are explicitly invited to participate in the distribution. We hypothesize that, by increasing the number of people involved

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<sup>9</sup> This effect could potentially be important for two reasons. First, widows comprise a vulnerable group of villagers who are potentially more likely to be identified by female village leaders. Second, women are likely to have better information on the food needs of different households as they are in charge of food preparation.

<sup>10</sup> Recent papers that explicitly use a pre-analysis plans include Alatas et. al. (2012), Casey et. al. (2012), Finkelstein et. al. (2012), Humphreys et. al. (2012), Olken et. al. (2010), and Schaner (2011).

in the selection and introducing a check on leader behavior from a group outside the customary leadership, mandated female participation will improve targeting, reduce diversion, and increase participation.

The aforementioned hypotheses are formalized in tests spanning five dimensions, grouped in three categories: (i) targeting; (ii) diversion; and (iii) participation. The three hypothesis categories – and the constituent hypotheses – are presented below. Note that as the direction of the hypothesized effects is the same for all three interventions, the hypotheses are identical regardless of whether the intervention is defined as: (i) mandating that the elected councils oversee the management of the food distribution in a randomly-selected half of council villages under evaluation; (ii) creation of elected councils without explicit requirements on who manages the distribution; (iii) mandating female participation in villages with customary leadership.

#### *IV.1 - Targeting*

Targeting assesses the extent to which the food aid provided to the village leaders for distribution reaches the intended beneficiaries – that is, the most vulnerable households in the village. While some aspects of vulnerability can be captured by objective measures, the limitations of household surveys - as well as differences in how vulnerability is defined - imply that villagers' subjective assessments may sometimes be more accurate (Alatas et al. 2012). For this reason we include both objective and subjective measures of targeting.

The quality of objective targeting is assessed by the characteristics of benefit recipients through observable measures of a household's economic welfare, such as asset ownership or whether the household is a member of a vulnerable group (e.g. widow-headed household or otherwise without an able-bodied, working age male member). Better targeting implies that aid recipients score lower on measures of economic welfare compared to other villagers. The respective hypothesis is as follows:

*Hypothesis 1:* The interventions (mandating council management of the aid distribution; creating elected councils without their mandated involvement in the distribution; mandating female participation) will improve the targeting of provided benefits to vulnerable populations in the village, as measured by characteristics of benefit recipients.

Subjective targeting is assessed by asking community members directly whether they consider wheat recipients as vulnerable or not.

*Hypothesis 2.* The interventions will improve the targeting by village leaders of provided benefits to vulnerable populations in the village, as assessed subjectively by villagers.

#### *IV.2 - Diversion*

Another important measure of food aid distribution outcomes is the extent to which aid provided for vulnerable households is diverted for the private benefit of village leaders. This may manifest itself either in embezzlement or nepotism.

Embezzlement represents the direct transfer of aid to the households of village leaders, either those directly involved in the distribution or who otherwise form part of the village leadership. By increasing the accountability of village leaders and by improving checks and balances, the interventions should reduce the diversion of resources by village leaders. The respective hypothesis is as follows:

*Hypothesis 3.* The interventions reduce embezzlement by village leaders.

Nepotism represents the distribution of aid to relatives and friends of village leaders and is captured by the following hypothesis:

*Hypothesis 4.* The interventions reduce nepotism in distribution of benefits by village leaders.

### IV.3 - Participation

The degree of participation in the distribution describes the extent to which ordinary villagers and marginalized groups (such as women) participate in the process of selecting the recipient households. It also describes the transparency of the process – that is, whether villagers were informed of the distribution outcomes – and whether there were any disputes among villagers and/or the village leaders about the distribution. Our expectations of how the interventions will affect such outcomes are formalized in the following hypothesis:

*Hypothesis 5.* The interventions will result in more participatory decision-making processes.

## V. Methodology

To test the hypotheses outlined above we use villages in which aid distribution was performed by traditional leaders as the baseline group and compare the outcomes in this group with the outcomes in (i) villages in which elected councils were put in charge of the distribution; (ii) NSP villages in which elected councils were not mandated to manage the distribution; and (iii) non-NSP villages in which female involvement was mandated. In particular, we estimate the following regression:

$$Y_{vi} = \alpha + \eta F_v + \lambda N_v + \mu M_v + \varphi_p + \varepsilon_{vi} \quad (1)$$

where  $Y_{vi}$  is the outcome of interest for observation  $i$  in village  $v$ ; <sup>11</sup>  $M_v$  is a dummy variable that equals one if an NSP village  $v$  was assigned to have its distribution managed by the elected council and zero otherwise;  $N_v$  is a dummy variable that equals one if village  $v$  is an NSP village in which the elected council was not mandated to manage the distribution and zero otherwise;  $F_v$  is a dummy variable that equals one if a non-NSP village  $v$  is assigned to mandated female involvement and zero otherwise;  $\varphi_p$  is the village-pair fixed effect, and  $\varepsilon_{vi}$  is the error term. Following Bruhn and McKenzie (2009), village-pair fixed effects are included to account for the use of pair-wise village matches in the allocation of treatment. Standard errors are clustered by village-cluster to account for correlation of residuals within village-clusters due to non-independence of assignment. Table A1 in the Appendix describes in detail all the indicators that we use to test each of the five hypotheses. In Table A2 we indicate and explain several cases where we deviate from the pre-analysis plan, which is usually due to a misspecification in the plan.

### V.1 – Identifying Wheat Recipients

Hypothesis 1 and the first indicator for Hypothesis 4 prescribe the comparison of recipients with other villagers and thus necessitate the identification of recipients. However, as the distribution is not directly observed, there is no definitive means to identify recipients. We use the following three sets of information provided by village leaders and survey respondents to identify potential recipients: (i) lists of recipients prepared by village leaders; (ii) self-reports by male and female survey respondents that their household received wheat; and (iii) households indicated as recipients by other male and female survey respondents. <sup>12</sup> As there is no *a priori* reason to believe that one of these sources is more reliable than the other, three subsamples of ‘recipient’ households are constructed:

- i. *Self-Reported Recipients*: Households in which either the male or female respondent self-reports that the household received wheat from the distribution (regardless of whether the household is designated by local leaders as a recipient);

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<sup>11</sup> Table A1 provides information on the construction of indicators and the corresponding units of analysis (household or individual respondent) and subsamples (random sample of households, subsample of wheat recipients, or the combination of both).

<sup>12</sup> The sets of households within a village suggested by these sources could be partially intersecting.

- ii. *Listed Recipients*: Households which are listed as recipients by the local leader(s) (regardless of whether the household self-reports as such);
- iii. *Peer-Reported Recipients*: Households that first survey respondents (i.e., the random sample of villagers) designate as recipients (regardless of whether the household self-reports or is designated by village leaders).

To ensure that the analysis does not depend on different assumptions concerning which of the sub-samples best represents the actual group of recipients, all hypotheses tests that subsume information on the characteristics of recipients are conducted separately for the three sub-samples.

#### *V.2 – Mean Effects*

For each hypothesis, there are often several corresponding outcomes and, for some indicators, there are alternative definitions of wheat recipients. To examine the treatment effect on all indicators pertaining to each hypothesis and to account for multiple hypotheses testing, we estimate the overall average treatment effect. The average treatment effect is estimated by combining the effects on each of the constituent indicators (and each of the definition of recipient households) using the approach in Kling and Liebman (2004). This ‘mean effect index’ is constructed as the mean of the treatment effects for each of the individual outcomes (standardized to have a mean of zero and variance of one), with standard errors estimated using the variance-covariance matrix for the system of seemingly unrelated regressions for all individual outcomes.<sup>13</sup> Thus, the magnitude of the mean effect can be interpreted as the effect of an intervention measured in standard deviations.

### **VI. Data**

#### *VI.1 – Compliance with Sub-Treatment Assignments*

Basic information regarding the meeting with village leaders during the first visit and wheat delivery during the second visit was recorded by the distribution agents. Generally, there was high level of compliance with variations in the first visit procedures.

In treatment villages in which there was no specific requirement that elected council members manage the distribution, 67 percent of meeting attendees identified themselves as members of the elected councils, whereas in villages in which the council was mandated to manage the distribution, 90 percent of attendees identified as council members (see Table 1).

In villages in which women were required to participate in the meeting, at least one woman was present in 73 percent of these villages, whereas in without required women participation and without elected councils this share was only 5 percent. The average number of women present in villages with required women participation was 5 women, which is close to the number of women that participated in NSP villages with mandated council participation. Across all groups of villages, an average of eight men attended the meeting.

#### *VI.2 – Sample Attrition*

Due to adverse security conditions, wheat was not delivered to 9 villages out of the original 500 villages. Whenever possible, wheat was delivered to the village or to the nearest accessible location. If this was not feasible due to security or road conditions, village leaders were requested to pick up the food aid in the district center and organize the delivery themselves. Wheat was not delivered to a few villages where village leaders were not able to organize transportation. The attrition and the mode of delivery were not correlated with the treatment status or with the group to which the village was assigned.

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<sup>13</sup> For further details, see Section IV.ii of the pre-analysis plan.

Most of the data used in the analysis comes from the surveys conducted after the wheat distribution. Table 2 presents information on the number of surveys completed in each type of village. Although the number of villages in which wheat could not be delivered was relatively low, there were numerous villages in which wheat was delivered but which could not be surveyed due to security or logistical problems. In total, male surveys were conducted in 400 villages and female surveys in 356 villages.

There was no significant difference between different groups of villages in the number of surveys per village that were administered to the random sample of village households and to listed recipients. However, the number of surveys of peer-reported recipients was somewhat higher in villages without elected councils (the difference is significant at the 10 percent level), which suggests that the official list of wheat recipients was more accurate in villages with elected councils.

### *VI.3 – Additional Sources of Data*

Information on which households were identified as vulnerable *ex-ante* is from the endline survey of the NSP impact evaluation, conducted ten days before the first visit for the food aid distribution. The survey was administered to the male head of household and his wife (or to another senior woman in the same household) separately in ten randomly selected households in each village. The respondents were asked to indicate five households that they considered to be the most needy in the village, the data for which is used to construct an indicator that measures the share of respondents that indicated a recipient household as needy.

Quantitative data collected on the third visit is complemented by qualitative accounts provided by enumerators. Such accounts suggest general compliance with the prescribed variation in the identity of leaders, responsible for aid distribution. In villages with no elected council, the village headman would generally oversee the distribution, along with village elders. In villages with elected councils, both the head of the elected council and the village headman were involved. This joint participation was only curtailed when the elected council was mandated to manage the distribution. Women were generally not involved in the process unless mandated, but were perceived as being better at identifying poor or widowed households than male leaders. Enumerators indicated that ordinary villagers were rarely actively involved in the decision-making process. Villagers usually were just called to receive the wheat allocated to them and, even in the case that they were present during deliberations, they would not actively participate in the decision-making. Enumerators perceived that leaders purposefully excluded villagers in order to avoid conflict and disagreement, but that villagers had a good knowledge of who was in charge of the distribution.

## **VII. Results**

### *VII.1 - Targeting*

#### Objective Targeting

The first hypothesis posits that the interventions – mandating that the elected council oversees the distribution; existence of councils without explicit requirements on who manages the distribution; and mandating female participation in villages with customary leadership – will improve targeting of aid to needy villagers as measured by observable characteristics. To test this, we test whether the interventions increase the likelihood that a food aid recipient's measures of assets exceed the village median, reduce the probability that a recipient belongs to a vulnerable group, and increase the level of an omnibus indicator of economic status (which incorporates information on assets, vulnerability, education and the necessity to borrow money for food) for recipients relative to the median. As described in Section V, we use three alternate definitions to identify recipients: (i) self-reported recipients; (ii) listed recipients; and (iii) peer-reported recipients. Table 3 presents estimates of the effect of the interventions on measures of objective targeting.

In mandated council villages, both self-reported and listed recipients were more likely to belong to a vulnerable group (by 3 and 5 percentage points respectively), relative to recipients in control villages in which female participation was not mandated. In addition, self- and peer-reported recipients were more likely to fall below the median in terms of economic status (by 6 and 4 percentage points respectively). The mean effect shows that objective targeting was significantly better in villages with mandated elected council participation (as compared to control villages without mandated female participation), although the effect is modest in size - 8 percent of a standard deviation.

In non-mandated council villages, listed recipients were more likely to fall below the median on measures of assets (by 4 percentage points) and economic status (by 6 percentage points), whereas peer-reported recipients were 4 percentage points more likely to fall below the median in economic status. However, the mean effect for NSP villages without mandated council management is not statistically significant.

In female mandated non-council villages, self- and peer-reported recipients were more likely to fall below the median in terms of economic status (by 6 and 4 percentage points respectively) and self-reported recipients were 4 percentage points more likely to score below the median on the measure of assets. The mean effect for the mandated female involvement, however, is not statistically significant.

Overall, the results indicate that targeting, when measured by objective characteristics, is improved if the distribution is managed by elected councils rather than by customary leaders. The results for individual indicators also provide some evidence that creation of elected councils and the mandated participation of women both improve objective targeting, but the mean effects for these two interventions are not statistically significant.

### Subjective Targeting

The second hypothesis posits that the interventions will improve aid targeting to vulnerable populations in the village as assessed subjectively by other villagers. The measures used to test this hypothesis are the proportion of respondent households that were identified *ex-ante* by a random sample of villagers as being among the five neediest households in the village; the proportion of households that are *ex-post* reported by a random sample of villagers to be vulnerable; and whether villagers generally perceive that the distribution benefited vulnerable households.<sup>14</sup> Table 4 presents estimates of the effect of the interventions on these measures of subjective targeting.

The mandating of the management of the distribution by elected councils has a weakly significant positive impact on whether respondents indicated that the distribution had benefited vulnerable households, but does not affect any other measures of subjective targeting. The mean effect of mandating council management is not statistically significant.

There are no significant effects of the existence of elected councils *per se* in terms of either individual indicators or mean effects.

Mandating female involvement in non-council villages increases the probability of a listed recipient being among those villagers identified *ex-ante* as vulnerable by 1 percentage point, but it decreases the probability that recipients are *ex-post* perceived as vulnerable by 2 percentage points.<sup>15</sup> Given these contrasting results, the mean effect for this intervention is not statistically significant.

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<sup>14</sup> The latter variable is the first principal components of binary indicators reporting whether, in the view of the respondent, all deserving households received wheat; no recipients are non-vulnerable; wheat was distributed primarily to vulnerable households; and an ordinal measure assessing the fairness of the distribution.

<sup>15</sup> Note that the levels of the *ex-ante* and *ex-post* indicators are not comparable, as the former is the share of male and female household respondents in the survey conducted prior to wheat distribution that indicated a household as vulnerable before wheat

The results thus indicate that there are no general effects of any of the three interventions on subjective targeting.

## *VII.2 - Diversion*

### Embezzlement

The third hypothesis posits that the interventions will reduce embezzlement of food aid by village leaders. Embezzlement is measured by the incidence of reports from respondents of wheat being retained, sold, or revoked by village leaders; and by the difference between the amounts allocated to recipients by the list prepared by the leaders and the amounts recipients reported to have been received by respondents. The last measure has an advantage of not being less likely to be subject to survey bias, as it relies on quantitative comparisons rather than perceptions of respondents.<sup>16</sup> Table 5 presents estimates of the effect of the interventions on measures of embezzlement.

There are no statistically significant differences for any of the embezzlement measures between mandated council villages and standard non-council villages. This applies to both individual and mean effects indicators.

However, in villages where elected councils exist but were not mandated to manage the distribution, respondents were 4 percentage points more likely to report that village leaders retained wheat. In addition, the presence of an elected council not mandated to manage the distribution increased the discrepancy between the amount of wheat that was allocated to respondents and the amount of wheat that they received by 3 kg. The mean effect index indicates that, relative to standard non-council villages, embezzlement was higher (by 10 percent of a standard deviation) in non-mandated council villages.

In mandated female non-council villages, respondents were 5 percentage points more likely to report that village leaders retained some wheat and 3 percentage points more likely to report that village leaders sold some wheat. The mean effect indicates that embezzlement was higher in female mandated non-council villages by 10 percent of a standard deviation.

Overall, the results indicate that there is no difference in embezzlement in villages in which either the elected council or the customary leaders are designated as responsible for aid distribution. However, the creation of an elected council without a clear assignment of responsibility for the aid distribution increases the probability of the village leadership embezzling food aid. Embezzlement also increases when female participation is mandated.

### Nepotism

The fourth hypothesis posits that the interventions will reduce nepotism in the distribution of benefits by village leaders. The extent of nepotism is measured by whether a recipient self-identifies as a relative of the village leadership;<sup>17</sup> reports by other respondents as to whether a recipient is linked to the village leadership; perceptions of non-recipients as to whether the distribution primarily benefited households connected to influential villagers; and by whether wheat was reported to have been given to village leaders not directly involved in the distribution. Table 6 presents estimates of the effect of the interventions on measures of embezzlement.

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distribution, while the latter is the share of respondents that identified recipients as vulnerable in the survey conducted after the wheat distribution.

<sup>16</sup> Survey bias (also known as Clever Hans bias) for this measure is still possible if aid recipients in some treatment groups are more likely to over-report (or under-report) the amount of wheat received as compared with non-recipients.

<sup>17</sup> We subtract the mean in the random sample of respondents in the village to take into account that the creation of the councils itself may lead to an increase in the number of village leaders and, as a result, to an increase in the number of villagers connected to village leaders (including non-recipients).



Across the individual indicators, the only statistically significant result for any of the three interventions is that mandating that the council manages the distribution reduces, by 3 percentage points, the share of self-identified recipients who report being connected to village leaders. The mean effects on the extent of nepotism in aid delivery, however, are not statistically significant for any of the three interventions. Thus, as in the case with subjective measures of targeting, there is no difference in nepotism between standard non-council villages and that in the other three groups of villages.

### *VII.3 – Participation*

The fifth hypothesis posits that the interventions result in more participatory decision-making processes. To test this hypothesis, we look at whether the recipient selection was made by more than one individual; whether villagers were consulted; the number of people involved in the recipient selection; whether the respondent was involved; whether women were involved; whether there were any conflicts related to the distribution; and whether the identity of recipients was publicly announced. Table 7 presents estimates of the effect of the different interventions on participation.

Mandating that the elected council manages the distribution increases the number of people involved in the selection by 13 percent, while also increasing the incidence of conflicts related to the distribution by one percentage point. The results for the mean effects index, however, indicate that there is no general effect of mandating management by the elected council on participation outcomes.

The presence of an elected council reduces, by 9 percentage points, reports of villagers either being involved or consulted in the selection process and also reduces, by 4 percentage points, the probability that a respondent is involved in the selection process. The mean effect index indicates that participation was lower, by 7 percent of a standard deviation, in villages in which a council exists but was not mandated to participate in the distribution.

Mandating female involvement reduces, by 9 percentage points, reports that villagers were either involved or consulted in the selection process. The mean effect results indicate no effect of mandating female participation on levels of villager participation in the process.

The results thus indicate that the decision-making processes in mandated female non-council and mandated council villages were broadly similar to those in villages in which the distribution was managed by customary leaders. However, participation was significantly lower in villages in which the elected councils existed, but were not mandated to manage the distribution.

## **VIII. Discussion**

The results indicate that, compared with villages in which customary leaders managed the distribution, the management of the distribution by elected councils caused an improvement in objective measures of targeting, but had no significant effect on subjective measures of targeting, embezzlement, nepotism, or villagers' participation. This indicates that democratically-elected local bodies can more equitably deliver local aid than customary institutions, but that there is no general impact of democratization on the behavior of local leaders.

Villages with elected councils that were not mandated to manage the distribution had higher levels of embezzlement and lower levels of participation, but there was no difference in targeting or nepotism. These results suggest that a lack of clear assignment of responsibilities has a negative effect on the quality of governance, which in turn can reverse the positive effects of democratization.

Mandating female participation had effects broadly similar to those found when councils exist but are not mandated to manage the distribution. Specifically, levels of embezzlement were higher, but there was no difference in terms of aid targeting, nepotism, or villagers' participation in the decision-making process. The

embezzlement result is perhaps not surprising given that female leaders in non-NSP villages are ordinarily related by marriage or blood to male village leaders and thus that the intervention increased the elite households involved in the decision-making process.

Our results indicating that elected councils offer more equitable governance outcomes on the positive effect of democratization on the quality of governance are consistent with the findings of Martinez-Bravo et al (2012), although the main mechanisms that drive the results seem to be different. Martinez-Bravo et al (2012) provides suggestive evidence that in the context of democratization in China the effect of the elections is driven primarily by re-election incentives, rather than by changes in the quality of office-holders. In Afghanistan, however, re-election incentives of the council members were very weak, which suggests the effect of elections in this context was driven primarily by the selection effect. Taken together, these results provide evidence that democratic elections can improve governance by addressing both adverse selection and moral hazard problems.

The results also indicate that the creation of multiple institutional structures without a defined hierarchy or distinct responsibilities can lead to institutional competition that degrade governance quality instead of creating additional checks and balances that enhance efficiency. This finding contradicts the initial hypotheses of the study, but it is broadly consistent with the theoretical predictions of Shleifer and Vishny (1993), which argues that institutional competition and collusion are important determinants of corruption. In particular, uncoordinated competition for rents between different officials leads to the highest level of corruption. If all village leaders involved in aid distribution have an opportunity to retain certain amount of wheat for themselves, than an increase in the number of people, responsible for wheat distribution, would increase the total amount of wheat retained by village leaders. As long as the creation of elected council results in an increase in number of leaders involved in the decision-making process, this would increase the total amount of rents extracted by village leaders.<sup>18</sup> Clear assignment of responsibilities for aid distribution, however, restricts the number of people who can extract rents, which leads to lower level of embezzlement.

The results also are consistent with Persson, Roland and Tabellini (1997), who argue that the separation of powers is an effective way of preventing abuse of power, but only if it provides checks and balances - that is, if the two sets of distinct institutions have different interests and are required to reach joint agreement over decisions. If, on the other hand, different institutions make independent claims over resources, then this leads to inefficiencies and diluted accountability. In both settings, making only one institution (or official) responsible for a policy can improve outcomes by preventing inefficient institutional competition. Our results reinforce this argument by showing that the separation of powers can lead to sub-optimal outcomes and that these inefficiencies can be resolved by clear assignment of responsibilities.

Reports by enumerators confirmed the statistical result that embezzlement increased when both the elected council and customary leaders were involved in the distribution, as both sets of leaders believed they were entitled to a portion of the food aid as a fee for the service of managing the distribution.<sup>19</sup> While villagers privately opposed this on account of the fact that it deprived poor households of what was due to them, the power wielded by local elites discouraged villagers from opposing the practice in public.

The result that the creation of democratically-elected councils by NSP has a negative effect on local governance when institutional roles are ill-defined is consistent with survey-based evidence on the effect of NSP on the perceptions of local governance. Specifically, using information collected during the midline

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<sup>18</sup> One way to address this assumption empirically is to look at the effect of the number of council members or the overlap between council members and traditional leaders on the outcomes of aid distribution. Both of these measures, however, are highly endogenous and, as a results, t such analysis does not provide any consistent results.

<sup>19</sup> This practice is a specialized form of the informal taxation which often occurs in Afghan villages, whereby local leaders receive an annual payment in kind (e.g., agricultural produce or livestock) from villagers.

survey (May – October 2009) and endline survey (May – October 2011) for the NSP impact evaluation, we estimate the following regression:

$$Y_{tvi} = \alpha + \beta_1 \cdot (T_v \times \tau_1) + \beta_2 \cdot (T_v \times \tau_2) + \gamma \cdot \tau_2 + \varphi_p + \varepsilon_{tvi} \quad (2)$$

where  $Y_{tvi}$  is the outcome of interest for household  $i$  in village  $v$  in the midline (1) or endline (2) Survey  $t \in \{1,2\}$ ,  $T_v$  is the village treatment dummy,  $\tau_t$  is the dummy for  $t$ ,  $\varphi_p$  is the village-pair fixed effect, and  $\varepsilon_{tvi}$  is the error term. Thus,  $\beta_1$  corresponds to the impact of NSP at midline and  $\beta_2$  corresponds to the impact at endline. As in the main regressions, we include village-pair fixed effects and cluster standard errors at the village-cluster level.

The results of this analysis (see Table 8) indicate that NSP had no significant effect at the perceptions of local governance quality in the midline survey, at the time when newly elected councils were assigned the responsibility for managing development projects funded by NSP. However, there is strong evidence of a negative impact on perceptions of local governance at the time of the endline survey, which was conducted after the completion of development projects and at a point at which the role of the elected councils was more ambiguous.

It is feasible that the negative effect on perception-based measures might not reflect an actual worsening of government quality. Such changes could, for instance, be caused by a relaxation in cultural constraints to voicing dissatisfaction due to the increased involvement of villagers in local decision-making. Similarly, observations of the work of elected councils may have altered the basis against which customary leaders are evaluated. However, the results on embezzlement that are based on the comparison of allocated and received amounts of wheat are harder to reconcile with these explanations, suggesting the quality of governance did actually deteriorate in treatment villages over the course of the study.

NSP involves not only the creation of democratically elected councils, but also the provision of block grants to finance development projects. Thus, the observed difference between villages with customary governance structures and villages with elected councils may potentially be explained by the effects of the influx of resources provided by NSP, rather than by the differences in institutions. However, all the results are robust to controlling for measures that capture changes in income, consumption, and assets that come as a result of the program (see Tables A3-A7). In addition, this explanation cannot explain the effects of making councils responsible for the aid distribution and for mandated female participation, since in this case we compare villages for which the amount of resources provided by NSP does not vary. Thus, the observed effects on governance quality are likely to be driven by the creation of councils, rather than by the provision of resources.

One important difference between customary leaders and elected council members is the difference in their time horizons as decision-makers (Olson, 2000). For customary leaders their position is usually life-long, so they are likely to have longer time-horizons than the members of the elected council, who hold this position only temporarily and do not have clear reelection incentives. A longer time-horizon is likely to put additional limits on rent-seeking behavior, which suggests that traditional leaders are less prone to corruption than members of the elected council. However, as long as elected councils makes traditional leaders less sure that they will retain their position in the future and, thus, shorten their time-horizon, we should observe more embezzlement in villages in which councils were created. Accordingly, while differences in time horizons of decision-makers can explain the negative indirect effect of council creation, they cannot explain the lack of any negative direct effect.

Improvements in targeting that come as a result of making the councils responsible for the food aid distribution may be driven by a reduction in shirking of the leaders responsible for food aid distribution.

Determining which households should receive wheat requires a certain degree of effort and when responsibilities are not clearly assigned, leaders can free ride on each other, which results in worse targeting. However, the results on embezzlement cannot be explained by differences in the levels of shirking and instead indicate that the creation of elected councils without clear assignment of responsibilities leads to an increase in rent-seeking.

Our results contrast with the findings in the literature on the transplantation of institutions. Most existing works argue that institutions that develop internally are much more likely to be effective than institutions that are externally imposed as the latter are rarely attuned to the country-specific context in which they are operating (Hayek 1960; Berkowitz, Pistor, and Richard 2003). Our results indicate that externally imposed democratic institutions can have a positive effect, but only if they are specifically assigned full responsibility for certain tasks. This finding is consistent with Acemoglu et al. (2011), which argues that exogenously-imposed reforms may be successful if sufficiently effective in displacing existing power-holders from *de facto* authority.

## **IX. Conclusion**

We exploit randomized variation in the structure of local governance institutions to examine the effect of the creation of democratically-elected councils on the quality of local governance in Afghan villages. We use the outcomes of a food aid distribution as a measure of local leader performance. To explore mechanisms underlying the effects of council creation, we induced randomized variation in whether councils are explicitly mandated to manage the distribution. We also induced randomized variation in whether women are required to participate in the distribution in those villages that do not have elected councils.

Our findings indicate that mandating elected councils to manage the distribution improves the quality of targeting, without any adverse effects on embezzlement or nepotism. However, if councils exist but there is no clear assignment of responsibility for managing the distribution, embezzlement is higher and decision-making processes are less inclusive. Similarly, in villages without elected councils, distribution outcomes are better when institutional responsibility is assigned to customary leaders, rather than being shared with prominent village women.

Our results provide evidence that, subject to the clear assignment of responsibilities, democratization improves the quality of local governance, which is in line with findings by Martinez-Bravo et al. (2012). The results also indicate that the existence of parallel institutions can lead to underperformance if responsibilities are not clearly delineated, which is consistent with theoretical literature that suggests that competition for rents between different institutions can lead to inefficient outcomes that might be improved by clear assignment of responsibilities (Shleifer and Vishny, 1993; Persson, Roland and Tabellini 1997).

The study did not seek to directly observe the decision-making process, to ensure that the act of monitoring does not affect behavior of village leaders. However, this decision limits the ability of the study to distinguish among competing explanations of how competition among governance entities can either enhance or degrade governance outcomes. One avenue for future research, thus, is to develop data collection modalities capable of directly observing decision-making processes while limiting the extent to which such observation alters the incentives for decision-makers, which in turn should enhance our understanding of the mechanisms through which institutional reforms can enhance governance outcomes overall.

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Figure 1 - Ten Sample Districts



Figure 2: Variation in Distribution Procedures

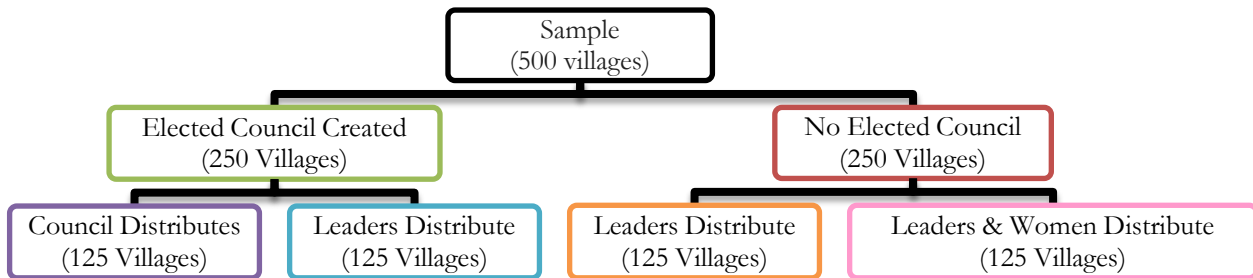




Table 1: Wheat Delivery Process

	Non-Council Villages		Council Villages	
	Unconstrained	Female	Unconstrained	Council
Number of villages	125	125	125	125
Mean Number of Men Present at First Visit	7.9	8.1	8.1	7.9
Share Of Men Identified As CDC Members	2%	3%	67%	90%
Women Present at First Visit Meeting	6	91	8	100
Mean Number of Women Present at First Visit	0.2	4.7	0.4	5.2
Location of Wheat Delivery				
Not Delivered	2	2	4	1
In Village	33	37	38	39
Near Village	12	8	7	7
District Center	78	78	76	78
Wheat Delivered but Not Distributed	15	12s	18	17

Table 2: Survey Coverage

	Non-Council Villages		Council Villages	
	Unconstrained	Female	Unconstrained	Council
Panel A: Number of Respondents				
Random Male Surveys	1539	1387	1337	1450
Random Female Surveys	1397	1276	1206	1257
Listed Recipients Male Surveys	1021	975	968	951
Listed Recipients Female Surveys	895	893	845	808
Peer-Reported Rec. Male Surveys	301	305	247	271
Peer-Reported Rec. Female Surveys	302	299	255	262
Panel B: Survey Attrition (village level)				
Missing Random Male Surveys	20	27	28	25
Missing Random Female Surveys	31	36	38	39
Missing Listed Recipients Male Surveys	28	28	30	31
Missing Listed Recipients Female Surveys	38	37	40	45
Missing Peer-Reported Rec. Male Surveys	64	62	76	68
Missing Peer-Reported Rec. Female Surveys	65	67	75	75

Table 3: Effects on Objective Measures of Targeting

Outcomes	Mean Value in No Councils without Mandated Women's Part.	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Obs.	p-value for equality of coefficients in (1) and (2)
		(1)	(2)	(3)		
Self-Reported Recipients						
Household Assets Below Median	0.784	0.008 [0.016]	0.001 [0.019]	-0.025 [0.020]	5,480	0.745
Vulnerability Status	0.101	0.034** [0.015]	0.020 [0.020]	0.026 [0.019]	6,030	0.438
Omnibus Indicator of Economic Status Below Median	0.779	0.017 [0.015]	0.003 [0.019]	-0.019 [0.019]	5,356	0.521
Listed Recipients						
Household Assets Below Median	0.867	0.032 [0.021]	0.039** [0.016]	0.037* [0.019]	4,310	0.762
Vulnerability Status	0.115	0.0480*** [0.016]	-0.010 [0.017]	0.002 [0.018]	4,655	0.001
Omnibus Indicator of Economic Status Below Median	0.865	0.058*** [0.018]	0.060*** [0.016]	0.058*** [0.019]	4,212	0.926
Peer-Reported Recipients						
Household Assets Below Median	0.834	0.009 [0.024]	0.007 [0.020]	0.012 [0.022]	4,231	0.928
Vulnerability Status	0.113	0.020 [0.016]	0.000 [0.020]	-0.004 [0.020]	4,569	0.285
Omnibus Indicator of Economic Status Below Median	0.827	0.038** [0.019]	0.044** [0.019]	0.037* [0.021]	4,130	0.765
<i>Mean Effects Index</i>		0.078***	0.042	0.034		0.215

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

Table 4: Effects on Subjective Measures of Targeting

Outcomes	Mean Value in No Councils without Mandated Women's Part.	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Obs.	p-value for equality of coefficients in (1) and (2)
		(1)	(2)	(3)		
Share of Respondents <i>Ex-Ante</i> Identifying Self-Reported Recipient as Vulnerable	0.039	-0.002 [0.004]	0.005 [0.005]	0.003 [0.005]	10,268	0.117
Share of Respondents <i>Ex-Ante</i> Identifying Listed Recipient as Vulnerable	0.060	0.002 [0.006]	0.001 [0.006]	0.011* [0.006]	13,085	0.885
Share of Respondents <i>Ex-Ante</i> Identifying Peer-Reported Recipient as Vulnerable	0.052	-0.003 [0.007]	0.007 [0.006]	0.005 [0.007]	13,728	0.145
Proportion of Recipients Reported <i>Ex-Post</i> to be Vulnerable	0.975	-0.013 [0.008]	-0.007 [0.013]	-0.025** [0.012]	5,989	0.664
Distribution Perceived to Have Benefited Vulnerable Households	-0.101	0.188* [0.100]	-0.083 [0.105]	0.001 [0.143]	6,364	0.043
<i>Mean Effects Index</i>		-0.003	-0.002	-0.013		0.974

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

Table 5: Effects on Embezzlement

Outcomes	Mean Value in No Councils without Mandated Women's Part.	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Obs.	p-value for equality of coefficients in (1) and (2)
		(1)	(2)	(3)		
At Least Some Wheat Retained by Village Leader(s)	0.087	-0.011 [0.020]	0.038* [0.020]	0.053** [0.024]	6,129	0.031
At Least Some Wheat Sold by Village Leader(s)	0.014	0.013 [0.008]	0.006 [0.012]	0.026** [0.011]	6,994	0.543
At Least Some Wheat Revoked by Village Leader(s) following Distribution	0.018	-0.016 [0.010]	-0.009 [0.012]	-0.022 [0.014]	5,639	0.651
Difference between Amount Allocated and Amount of Received	1.882	1.784 [1.278]	3.162** [1.453]	1.962 [1.551]	9,610	0.392
<i>Mean Effects Index</i>		0.008	-0.096*	-0.104*		0.074

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

Table 6: Effects on Nepotism

	Mean Value in No Councils without Mandated Women's Part.	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Obs.	p-value for equality of coefficients in (1) and (2)
		(1)	(2)	(3)		
Proportion of Recipients Connected to Village Leaders (Self-Identified Recipients)	-0.034	-0.031** [0.016]	0.022 [0.019]	0.004 [0.022]	7,179	0.011
Proportion of Recipients Connected to Village Leaders (Listed Recipients)	-0.055	0.012 [0.020]	0.023 [0.025]	0.016 [0.027]	5,200	0.645
Proportion of Recipients Connected to Village Leaders (Peer-Reported Recipients)	-0.049	0.002 [0.020]	0.017 [0.023]	0.019 [0.027]	5,191	0.584
Recipient Self-Identifies Household as Related to Village Leaders	0.244	0.045 [0.035]	-0.020 [0.033]	0.030 [0.046]	6,016	0.152
Wheat Distributed Primarily to HHs Connected to Influential Villagers	0.065	-0.013 [0.014]	0.024 [0.016]	0.004 [0.019]	7,076	0.043
Wheat Distributed to Leaders Not Involved in Decision-Making Process	0.937	-0.008 [0.013]	-0.008 [0.013]	-0.015 [0.015]	6,545	0.979
<i>Mean Effect Index</i>		-0.002	-0.027	-0.025		0.504

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

Table 7: Effects on Participation

	Mean Value in No Councils without Mandated Women's Part.	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Obs.	p-value for equality of coefficients in (1) and (2)
		(1)	(2)	(3)		
Selection of Recipients by More than One Person	0.819	0.030 [0.022]	-0.007 [0.030]	0.018 [0.029]	7,318	0.167
Villagers Selected or Were Consulted	0.272	0.009 [0.034]	-0.099** [0.045]	-0.088* [0.047]	5,891	0.023
Logarithm of Number of People Involved in Selection	1.784	0.134*** [0.050]	-0.094 [0.062]	0.005 [0.073]	6,950	0.001
Respondent Involved in Selection	0.122	0.009 [0.015]	-0.038*** [0.012]	-0.016 [0.014]	9,393	0.002
Women Involved in Selection	0.030	0.010 [0.010]	-0.003 [0.010]	0.009 [0.013]	8,378	0.325
No Conflicts Related to Distribution	0.981	-0.014** [0.006]	0.001 [0.009]	0.004 [0.008]	7,526	0.081
Identity of Recipients Publicly Announced	0.651	0.026 [0.029]	0.018 [0.033]	0.002 [0.042]	7,650	0.799
<i>Mean Effects Index</i>		0.046	-0.066*	-0.015		0.008

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

Table 8: Effects of NSP on Perceptions of Quality of Local Governance

	Respondents	Effect of NSP at Endline	Effect of NSP at Midline	Obs.
Village Leaders Act in Interest of All	Male	-0.058*** [0.019]	-0.021 [0.017]	8,906
Village Leaders Responsive to Needs of Women	Female	0.030 [0.021]	0.054*** [0.019]	8,021
Headman Acts in Interest of All	Male	-0.023 [0.015]	0.008 [0.012]	8,344
Dispute Resolution Always Fair	Male	-0.034* [0.019]	-	2,697
Perceives that Theft Resolution is Always Fair	Male	-0.083** [0.040]	-	1,144
Neediest Villagers Would Benefit from Aid	Male	-0.017 [0.019]	-0.016 [0.015]	8,870
Satisfied with Village Leaders in Past Year	Female	0.015 [0.019]	0.025 [0.016]	7,891
Satisfied with Village Leaders in Past Year	Male	-0.067*** [0.014]	0.012 [0.015]	8,534
Disagreed with Leaders' Decision in Past Year	Female	0.011 [0.011]	-0.001 [0.011]	7,792
Disagreed with Leaders' Decision in Past Year	Male	0.045*** [0.010]	0.034*** [0.008]	8,986
<i>Mean Effects Index</i>		-0.073***	0.012	

Notes: Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

Table A1: Indicators

	Indicator	Unit of Observation	Sample
<b>Objective Targeting</b>			
I1: Whether Household scores below village median on the measure of Assets, which is the First Principal Component of:	<ul style="list-style-type: none"> <li>• Stock of Household Assets (based on ownership of 22 different types of assets and the number of rooms occupied)</li> <li>• Area of Land Owned by Household</li> <li>• Household Headed by Widow</li> </ul>	Household	Recipients
I2: Vulnerability Status of Household – Maximum of:	<ul style="list-style-type: none"> <li>• Household Headed by Male who is Disabled or Recently Suffered Serious Illness or Injury</li> <li>• No Male Resident Between the Age of 14 and 60 in Household</li> </ul>	Household	Recipients
I3: Whether Household scores below village median on the Omnibus Indicator of Economic Stats, which is the First Principal Component of:	<ul style="list-style-type: none"> <li>• I1</li> <li>• I2</li> <li>• HH Head has No Formal Education</li> <li>• HH Head is Illiterate</li> <li>• HH Head is Unable to Complete Basic Calculation</li> <li>• HH Borrowed to Meet Food Needs</li> </ul>	Household	Recipients
<b>Subjective Targeting</b>			
I1: For Each Recipient, Proportion of Endline Survey Respondents that Ex-Ante Identified the Recipient as Vulnerable		Household	Recipients
I2: Proportion of Recipients Reported Ex-Post to be Vulnerable		Respondent	Random
I3: Distribution Perceived to Have Primarily Benefited Vulnerable Households – First Principal Component of:	<ul style="list-style-type: none"> <li>• Respondent Reports that All Deserving Households Received Wheat</li> <li>• Respondent Reports that Some Recipients Households are Not Vulnerable</li> <li>• Respondent Reports that Wheat was Distributed Primarily to Vulnerable Households</li> <li>• Fairness of Distribution According to Respondent</li> </ul>	Respondent	Random
<b>Embezzlement</b>			
I1: Respondent Indicates that Some Wheat was Retained by Village Leaders for Personal Use		Respondent	Random
I2: Respondent Indicates that Some Wheat was Sold by Village Leaders		Respondent	Random
I3: Wheat Revoked by Village Leaders following Distribution		Respondent	Recipients
I4: Difference between Amount Allocated by Village Leaders' List to those Respondents and Total Amount of Wheat Received by Respondents		Household	Recipients and Random
<b>Nepotism</b>			
I1: Recipient Self-Identifies Household as Related to Village Leader or Member of Village Elders		Household	Recipients
I2: Proportion of Recipients Reported to be Close Friends or Relatives of Village Leaders		Respondent	Random
I3: Respondent Reports that Wheat was Distributed Primarily to Households Connected to Influential Villagers		Respondent	Random
I4: Respondent Reports that Wheat was Distributed to Village Leaders Not Involved in Decision-Making Process		Respondent	Random
<b>Participation</b>			
I1: Respondent Reports that Selection of Recipients was Made by More than One Person		Respondent	Random
I2: Respondent Reports that Ordinary Villagers Either Selected Recipients or Were Consulted		Respondent	Random
I3: Logarithm of Total Number of People Involved in Selection or Consultations		Respondent	Random
I4: Respondent was Involved in Selection or Consultations		Respondent	Random
I5: Women were Involved in Selection		Respondent	Random
I6: There were No Conflicts Related to Distribution		Respondent	Random
I7: Identity of Recipients was Publicly Announced by Village Leaders		Respondent	Random



Table A2: Changes from Pre-Analysis Plan

Change	Reason
Consumption indicator as a measure of objective targeting is dropped	Consumption is directly affected by wheat distribution, so it reflects the outcome of wheat distribution, rather than relative standing of recipients prior to wheat distribution
Use indicator for whether the measure of assets is below the median in a village, rather than measure of assets directly	The new measure captures relative standing of recipient household, whereas the initially proposed measure could be affected by the effect of NSP on economic outcomes of all households in a village.
Use indicator for whether the omnibus indicator of economic status is below the median in a village, rather than the indicator directly	Same as above
Reverse the sign of the <i>Difference between Total Amount of Wheat Received by Respondents and Amount Allocated by Village Leaders' List to those Respondents</i> and calculate it at the household, rather than village level.	The sign is reversed for the ease of interpretation. The unit of observation was indicated as "village" in the PAP by mistake, as it produces similar results, but does not take into account within village variation.
Take logarithm of the <i>Total Number of People Involved in Selection or Consultations</i>	The <i>Number of People Involved in Selection or Consultations</i> turns out to have a highly skewed distribution, so we take logarithms to minimize the effect of outlier.

Table A3: Effects on Objective Measures of Targeting (with controls for economic welfare)

Outcomes	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Economic Controls	Obs.
	(1)	(2)	(3)		
	Self-Reported Recipients				
Household Assets Below Median	0.003 [0.020]	-0.0043 [0.016]	-0.0275 [0.019]	Yes	5,480
Vulnerability Status	0.0245 [0.020]	0.0263* [0.015]	0.0282 [0.018]	Yes	6,030
Omnibus Indicator of Economic Status Below Median	0.0063 [0.019]	0.0054 [0.014]	-0.0204 [0.019]	Yes	5,356
	Listed Recipients				
Household Assets Below Median	0.0421** [0.016]	0.0258 [0.020]	0.0354** [0.017]	Yes	4,310
Vulnerability Status	-0.0006 [0.017]	0.0477*** [0.016]	0.0001 [0.017]	Yes	4,655
Omnibus Indicator of Economic Status Below Median	0.0574*** [0.016]	0.0574*** [0.017]	0.0544*** [0.018]	Yes	4,212
	Peer-Reported Recipients				
Household Assets Below Median	0.0042 [0.019]	0.0149 [0.021]	0.0146 [0.021]	Yes	4,231
Vulnerability Status	0.0095 [0.020]	0.0122 [0.015]	0.0048 [0.020]	Yes	4,569
Omnibus Indicator of Economic Status Below Median	0.0424** [0.020]	0.0420** [0.017]	0.0396* [0.021]	Yes	4,130
<i>Mean Effects Index</i>	0.067***	0.051*	0.036		

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Economic controls include measures of household, income, consumption, assets, livestock ownership, and caloric intake. All controls are averages at the villages level based on the information from the endline survey. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

Table A4: Effects on Subjective Measures of Targeting (with controls for economic welfare)

Outcomes	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Economic Controls	Obs.
	(1)	(2)	(3)		
Share of Respondents <i>Ex-Ante</i> Identifying Self-Reported Recipient as Vulnerable	0.0076 [0.005]	-0.0032 [0.004]	0.0052 [0.005]	Yes	10,268
Share of Respondents <i>Ex-Ante</i> Identifying Listed Recipient as Vulnerable	0.0015 [0.006]	0.0025 [0.006]	0.0136** [0.007]	Yes	13,085
Share of Respondents <i>Ex-Ante</i> Identifying Peer-Reported Recipient as Vulnerable	0.0075 [0.007]	-0.0029 [0.007]	0.0073 [0.008]	Yes	13,728
Proportion of Recipients Reported <i>Ex-Post</i> to be Vulnerable	-0.0063 [0.012]	-0.0159* [0.009]	-0.0275** [0.012]	Yes	5,989
Distribution Perceived to Have Benefited Vulnerable Households	-0.0909 [0.112]	0.1831* [0.098]	0.0241 [0.137]	Yes	6,364
<i>Mean Effects Index</i>	-0.01	0.005	-0.002		

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Economic controls include measures of household, income, consumption, assets, livestock ownership, and caloric intake. All controls are averages at the villages level based on the information from the endline survey. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

TableA5: Effects on Embezzlement (with controls for economic welfare)

Outcomes	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Economic Controls	Obs.
	(1)	(2)	(3)		
At Least Some Wheat Retained by Village Leader(s)	0.0363* [0.019]	-0.0199 [0.019]	0.0630*** [0.023]	Yes	6,129
At Least Some Wheat Sold by Village Leader(s)	0.0088 [0.010]	0.0129 [0.009]	0.0237** [0.011]	Yes	6,994
At Least Some Wheat Revoked by Village Leader(s) following Distribution	-0.0051 [0.013]	-0.0133 [0.009]	-0.0189 [0.013]	Yes	5,639
Difference between Amount Allocated and Amount of Received	3.9418** [1.591]	1.6494 [1.234]	2.2671 [1.631]	Yes	9,610
<i>Mean Effects Index</i>	0.019	-0.115**	-0.101*		

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Economic controls include measures of household, income, consumption, assets, livestock ownership, and caloric intake. All controls are averages at the villages level based on the information from the endline survey. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

TableA6: Effects on Nepotism (with controls for economic welfare)

	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Economic Controls	Obs.
	(1)	(2)	(3)		
Proportion of Recipients Connected to Village Leaders (Self-Identified Recipients)	0.027 [0.020]	-0.0331* [0.018]	0.0017 [0.024]	Yes	7,179
Proportion of Recipients Connected to Village Leaders (Listed Recipients)	0.036 [0.026]	0.0127 [0.021]	0.0209 [0.028]	Yes	5,200
Proportion of Recipients Connected to Village Leaders (Peer-Reported Recipients)	0.0243 [0.025]	0.004 [0.021]	0.0262 [0.031]	Yes	5,191
Recipient Self-Identifies Household as Related to Village Leaders	-0.0274 [0.039]	0.062 [0.038]	0.0293 [0.048]	Yes	6,016
Wheat Distributed Primarily to HHs Connected to Influential Villagers	0.0268* [0.016]	-0.0154 [0.014]	0.0032 [0.016]	Yes	7,076
Wheat Distributed to Leaders Not Involved in Decision-Making Process	-0.0083 [0.014]	-0.0072 [0.013]	-0.0290* [0.016]	Yes	6,545
<i>Mean Effect Index</i>	-0.010	-0.035	-0.018		

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Economic controls include measures of household, income, consumption, assets, livestock ownership, and caloric intake. All controls are averages at the villages level based on the information from the endline survey. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.

TableA7: Effects on Participation (with controls for economic welfare)

	Councils Exist, Mandated Council Management	Councils Exist, No Mandated Council Management	No Councils, Mandated Women's Participation	Economic Controls	Obs.
	(1)	(2)	(3)		
Selection of Recipients by More than One Person	0.0002 [0.031]	0.0444* [0.024]	0.0366 [0.031]	Yes	7,318
Villagers Selected or Were Consulted	-0.1274*** [0.043]	-0.0458 [0.032]	-0.1305*** [0.045]	Yes	5,891
Logarithm of Number of People Involved in Selection	-0.1144* [0.061]	0.1058** [0.049]	0.0011 [0.070]	Yes	6,950
Respondent Involved in Selection	-0.0344*** [0.012]	-0.0018 [0.014]	-0.0230* [0.014]	Yes	9,393
Women Involved in Selection	-0.0016 [0.011]	0.0082 [0.011]	0.0121 [0.012]	Yes	8,378
No Conflicts Related to Distribution	-0.0053 [0.009]	-0.0162** [0.006]	-0.0021 [0.008]	Yes	7,526
Identity of Recipients Publicly Announced	0.0062 [0.034]	0.0355 [0.030]	0.0054 [0.042]	Yes	7,650
<i>Mean Effects Index</i>	0.021	-0.084**	-0.028		

Notes: All estimates are relative to values in non-CDC villages without mandated women's participation. Economic controls include measures of household, income, consumption, assets, livestock ownership, and caloric intake. All controls are averages at the villages level based on the information from the endline survey. Robust standard errors adjusted for clustering at the village-cluster level in brackets. \* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%.