Secure Livelihoods Research Consortium

Researching livelihoods and services affected by conflict

Surveying livelihoods, Z service delivery and governance: baseline evidence from Nepal

Working Paper 13 Bishnu Raj Upreti, Pravat Uprety, Jessica Hagen-Zanker, Sony KC and Richard Mallett June 2014



About us

Secure Livelihoods Research Consortium (SLRC) aims to generate a stronger evidence base on how people in conflict-affected situations (CAS) make a living, access basic services like health care, education and water, and perceive and engage with governance at local and national levels. Providing better access to basic services, social protection and support to livelihoods matters for the human welfare of people affected by conflict, the achievement of development targets such as the Millennium Development Goals (MDGs) and international efforts at peace- and state-building.

At the centre of SLRC's research are three core themes, developed over the course of an intensive oneyear inception phase:

- State legitimacy: experiences, perceptions and expectations of the state and local governance in conflict-affected situations
- State capacity: building effective states that deliver services and social protection in conflict-affected situations
- Livelihood trajectories and economic activity in conflict-affected situations

The Overseas Development Institute (ODI) is the lead organisation. SLRC partners include the Afghanistan Research and Evaluation Unit (AREU), the Centre for Poverty Analysis (CEPA) in Sri Lanka, the Feinstein International Center (Tufts University), Focus1000 in Sierra Leone, the Food and Agriculture Organization (FAO), Humanitarian Aid and Reconstruction of Wageningen University (WUR) in the Netherlands, the Nepal Centre for Contemporary Research (NCCR), and the Sustainable Development Policy Institute (SDPI) in Pakistan.

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Preface

As a multi-year, cross-country research programme, one of the overarching aims of the Secure Livelihoods Research Consortium (SLRC) is to contribute towards a better understanding of what processes of livelihood recovery and state building look like following periods of conflict and how positive outcomes are achieved. Understanding socioeconomic change of this nature is possible only when appropriate evidence exists. This, in turn, requires the availability of reliable longitudinal data that are able to measure shifts, fluctuations and consistencies in the performance of a given unit of analysis (e.g., an individual, a household, an economy) against a set of outcome indicators between at least two points in time.

In order to directly address this need for appropriate evidence – evidence that tells us something about processes playing out over time and in more than one context – SLRC is carrying out original panel surveys in five countries: the Democratic Republic of Congo, Nepal, Pakistan, Sri Lanka and Uganda. In two other countries, Afghanistan and South Sudan, we are following a slightly different process by tagging on to existing panel surveys. The surveys are designed to produce information on people's livelihoods (income-generating activities, asset portfolios, food security, constraining and enabling factors within the broader institutional and geographical context), their access to basic services (education, health, water), social protection and livelihood services and their relationships with governance processes and practices (participation in public meetings, experience with grievance mechanisms, perceptions of major political actors). The surveys are to be implemented twice in each country: the first round took place in late 2012 to early 2013, and the second round – where we will attempt to re-interview the same households – will take place in late 2015 to early 2016.

Undertaking a cross-country, comparative panel survey in difficult environments is far from a straightforward exercise. For purposes of transparency and clarity, we highlight the two major limitations of our baseline analyses and reports below.

The first limitation concerns the methods of statistical analysis used. In order to identify factors that appear to (partially) determine outcomes of various kinds - for example, food security or perceptions of state actors - and compare them across countries, it was necessary for SLRC researchers to carry out standardised regression analyses of the survey data. If the analysis were being carried out solely at the country level, what would ordinarily happen is that each country team would make their own decisions - based on theory, existing knowledge and context - about which dependent and independent variables to include in each of their regressions and which specific regression methods to use. In an attempt to generate findings that would usefully tell us something about patterns or discrepancies across countries, it was originally decided that each country team would include a standardised list of independent variables in each of their regressions and use the same regression techniques; this would then enable the global survey team to produce a synthesis based on similar-looking analyses at the country level. This approach, however, creates a trade-off. For instance, including a long list of comparable independent variables means including certain variables that for some countries may be less relevant or even co-linear (an undesirable statistical situation that arises when two independent or explanatory variables share a strong linear relationship). As such, we have tested for multi-co-linearity in all regressions and have re-specified those that were affected by this problem - at the expense of some cross-country comparability. Other reasons the results are not completely comparable across countries include low numbers of responses for some questions/variables; and low levels of variation between responses for some questions/variables (when either situation arose, such variables were not included in the regression analysis).

The second limitation of the baseline reports is their absence of theory and contextualisation. Indeed, the reports focus primarily on empirical information generated through the surveys, rather than on a thorough theoretical or grounded explanation of findings. As such, direct attempts have not been made to reference the findings in relation to other relevant pieces of research or to provide theoretical explanations of relationships and patterns. This is the result of a choice made by SLRC researchers at the outset of the survey process. Rather than allocate additional resources to producing country reports that offer comprehensive explanations of findings, it was decided that the outputs emerging from the first survey round would constitute basic, relatively unembellished baseline reports. While still presenting information of interest, one of the primary purposes of the baseline reports is to provide a clear and solid basis against which the second-round survey data can be compared and interpreted. It is in those second-round reports that far greater attention will be paid to embedding the SLRC survey findings – findings that will be of greater value given their longitudinal and panel nature – in the appropriate theoretical and contextual foundations.

Abbreviations

- DDC District Development Committee
- MSI Morris Score Index
- NCCR Nepal Centre for Contemporary Research
- NGO Non-governmental organisation
- OECD Organisation for Economic Co-operation and Development
- OLS Ordinary Least Square
- SLRC Secure Livelihoods Research Consortium
- VDC Village Development Committee

Executive summary

In 2012/13, SLRC implemented the first round of an original cross-country panel survey in Nepal designed to produce information on:

- people's livelihoods (income-generating activities, asset portfolios, food security, constraining and enabling factors within the broader institutional and geographical context)
- their access to basic services (education, health, water), social protection and livelihood assistance, and
- their relationships with governance processes and practices (participation in public meetings, experience with grievance mechanisms, perceptions of major political actors).

This paper reports on the baseline findings emerging from statistical analysis of the Nepal first-round data.

We collected survey data from a sample of 3,176 households in September to November 2012. Although the sample was drawn from three districts – Rolpa, Bardiya and Ilam (purposively selected in order to capture geographic variation in conflict, physical accessibility and access to services) – our data are not representative at the district level. They are representative, however, at the village level, and are statistically significant at the study, district and village level.

Livelihoods and wellbeing

Three key findings emerge from our analysis of the livelihoods data.

First, the data show that **agriculture remains the major livelihood activity**, with close to 80% of households participating. It is the most important income source for around 46% of households. Only a negligible share of households had members who held a private sector job, while about 10% of households had at least one member working in the public sector.

Second, we find that **higher levels of household education and the ability of a household to obtain a loan** in an emergency are significantly associated with **lower levels of food insecurity** and with **higher levels of asset ownership**. The significance of the 'access to a loan' variable suggests that when households have access to financial safety nets or response mechanisms such as loans, particularly in tough times, they are more likely to be better off. Of course, the direction of causality might flow the other way: it may be that wealthier, more food-secure households find it easier to access loans, perhaps because they are trusted more by other households or financial organisations. On the other hand, we find that **poor households are more likely to be food insecure and have fewer assets**.

Third, in terms of the links between food insecurity and asset ownership, there are four variables that stand out. We find that **female-headed households are likely to be less food insecure but also less wealthy**. We also find that households in urban locations in our sample are likely to be wealthier but more food insecure. Land access could be an influence here, because those in urban areas may lack the safety net effects of subsistence agriculture when food prices spike. We find that receipt of a social protection transfer is associated with greater asset ownership (possibly because the transfer buffers against asset depletion, such as selling assets to buy food) but also with higher levels of food insecurity. And finally, although not sharing a statistically significant relationship with food insecurity, receipt of a livelihoods assistance transfer is also associated with greater household wealth.

Basic services, social protection and livelihoods assistance

Looking across the range of services covered by the survey – health, education, water, social protection and livelihoods assistance – we can identify four key findings regarding households' access to, and experience of, basic services in our sample.

First, **the number of shocks experienced by a household in the last three years generally appears to be linked to worse service-related outcomes**. For example, we find that exposure to a greater number of shocks is associated with longer journey times to health clinics, greater dissatisfaction with health clinics and a lower likelihood of receiving social protection. The exception is livelihood assistance, but we think this is explained by the fact that it is mainly received by households with greater assets.

Second, in terms of **social protection and livelihoods assistance coverage**, 38% of households in our sample population received some form of social protection over the past year, while 16% of households received some form of livelihoods assistance over the same period. Interestingly, there are more female than male respondents who reported receiving livelihoods assistance. Regression analyses suggest that **social protection programmes generally appear to be fairly well targeted** – with older, female-headed, less educated and more food-insecure households all more likely to have received a transfer – although households experiencing a greater number of shocks in the last three years are less likely to have accessed social protection.

Third, levels of satisfaction with services are generally fairly strong. For example:

- More than 70% of respondents reported being either 'very' or 'fairly' satisfied with their health service on the basis of their most recent visit. 64% of women tend to be fairly satisfied with the health services as opposed to 60% men.
- Just under 90% of respondents felt the water they accessed was clean and safe.
- More than 80% of those receiving a form of livelihoods assistance (e.g. seeds and tools, fertiliser vouchers) felt the assistance had helped improve agricultural production or another livelihood activity.

An exception seems to be social protection. When asked about the effectiveness of the Old-Age Allowance, less than 10% of beneficiaries in the sample felt the transfer helped either 'quite a lot' or 'a lot'. The vast majority of beneficiaries felt the transfer helped 'a bit' (insofar as it allowed them to buy some extra food).

And finally, although there is no consistent set of variables explaining why some respondents are more satisfied with services than others, there is some indication that **people's specific personal experiences with the service heavily influences their overall level of satisfaction**. For example, we find that when respondents are dissatisfied with specific aspects of the health clinic – such as waiting times, availability of quality staff – they are much more likely to be dissatisfied with the service overall. When we look at respondents' satisfaction with education, we find a very similar story.

Perceptions of governance

There are number of key findings regarding respondents' perceptions of local and central government.

First, the vast majority of respondents have **very low levels of trust and confidence in both local and central levels of government. Perceptions of central government are comparatively worse** than those of local government. Female respondents have a more negative perception of the local government than male respondents, but the difference is not statistically significant.

Second, few factors appear to consistently influence perceptions of both local and central government. However, we do find that the **higher the number of service-related problems a household experiences**, **the worse a respondent's perceptions of local and central government** are likely to be. This suggests a possible lack of effective accountability or grievance mechanisms in government service provision, and weak responsiveness from those in power locally and centrally. On the same theme, there is also some evidence that respondents are likely to hold more positive perceptions of local and central government if they (1) are aware of official complaints procedures regarding services, or (2) have recently been consulted about services. On the other hand, access to services – whether measured by journey times to facilities or by receipt of a transfer – does not have a clear or significant relationship with perceptions of government. This suggests that the way in which services are being delivered (participatory, accountable etc.) is as important as what is delivered.

Third, and related to the above finding, there does not appear to be any consistent statistical relationship between perceptions and a variety of factors one might expect to matter. For example, for variables that we thought would each have strong influences on perceptions, such as economic characteristics of households and the extent to which they participate in community meetings, we find no correlation.

1 Introduction

In 2012/13, the Secure Livelihoods Research Consortium (SLRC) designed and implemented the first round of a panel survey in five conflict-affected countries, generating cross-country data on livelihoods, access to and experience of basic services, exposure to shocks and coping strategies, and people's perceptions on governance. This paper presents the findings of the Nepal survey, which was conducted with 3,176 households between September and November 2012. It constitutes, in effect, the Nepal baseline report, to be followed by a subsequent report in 2015/16 when the second round of the panel survey will be completed. The analysis presented within also informs, together with the four other country papers, the first-round synthesis report.

The paper is structured as follows. Section 2 provides the background to the survey, situating it in relation to the overarching themes of SLRC's research programme, outlining the objectives of the survey and presenting the analytical frameworks used to guide analysis of the survey data. Section 3 presents the survey methodology for Nepal in greater detail, discussing the specific sampling methods used and describing the basic characteristics of the final sample. Sections 4-6 constitute the analytical core of the paper, exploring: the livelihood status of households in our sample and the factors which influence this; people's access to and experience with basic services, social protection and livelihoods assistance and the factors which influence this; and people's perceptions of governance actors and the factors which influence this the final section concludes by summing up the main findings and presenting suggestions for additional research.

2 Background, objectives and analytical frameworks

This section is divided into three parts. The first provides some background information to the survey by situating it in relation to SLRC's broader research agenda. The second outlines the objectives of carrying out a panel survey. The third describes the basic analytical frameworks used to analyse the survey data.

2.1 Situating the survey within the research programme

The cross-country panel survey is of direct relevance to the first and third themes of SLRC's six-year global research programme:

- 1 *Legitimacy.* What are people's perceptions, expectations and experiences of the state and of local-level governance? How does the way services are delivered and livelihoods are supported affect people's views on the legitimacy of the state?
- 2 *Capacity.* How do international actors interact with the state and local-level governance institutions? How successful are international attempts to build state capacity to deliver social protection, basic services and support to livelihoods?
- 3 *Livelihood trajectories.* What do livelihood trajectories in conflict-affected situations tell us about the role of governments, aid agencies, markets and the private sector in enabling people to make a secure living?

Legitimacy: people's perceptions of governance and the role of service delivery

Establishing, building or strengthening state legitimacy is a major element of state building. The Organisation for Economic Co-operation and Development (OECD) (2010: 3), for example, notes that, 'State legitimacy matters because it provides the basis for rule by consent rather than by coercion.' Indeed, a lack of state legitimacy is seen as a major contributor to state fragility because it undermines state authority. While the steps they can take to influence state legitimacy are few, donors do have an interest in developing a clearer understanding of the following: what leads to legitimacy? What, if anything, can they do to strengthen state-society relations? And what might be the (unintended) positive and negative impacts of their programming on state legitimacy if they, for example, route development funding via bodies other than the formal organs of the state?

Literature reviews carried out during SLRC's inception year found very little evidence for the frequent assertion that improving access to services and social protection in conflict-affected situations contributes to state building (see, in particular, Carpenter et al., 2012). The relationship between delivering services and state – society relations remains poorly understood. Given the cited importance of legitimacy in state-building processes – as the European Report on Development (2009: 93) notes, 'State-building efforts are bound to fail if, in strengthening institutional capacities, the legitimacy of the state is not restored' – it is both surprising and concerning that we have so little robust knowledge about what leads to state legitimacy. Literature reviews have also spotted gaps between service provision and the extent to which people know about or use those services. Also, the major focus of much conflict research in Nepal has been on the causes and types of conflict, disregarding actual impacts on the livelihoods and basic services of people affected (Bohara et al., 2006; Do and Iyer, 2010; Murshed and Gates, 2005; Nepal et al., 2011, as cited in Upreti et al., 2012).

Despite these gaps, state building, encompassing both legitimacy and capacity, provides the organising framework for much international engagement in conflict-affected situations. In tackling this question we are taking up the OECD's call for donors to 'seek a much better understanding – through perception

surveys, research and local networking – of local people's perceptions and beliefs about what constitutes legitimate political authority and acceptable behaviour' (OECD, 2010: 55).

Livelihood trajectories: tracking change and identifying determinants

Literature reviews carried out during SLRC's inception year identified empirical and longitudinal research on livelihoods in conflict-affected situations as a key evidence gap. Good in-depth case studies can sometimes be found on livelihood strategies in particular contexts, but these are usually just snapshots. Qualitative case study approaches are also insufficiently linked to quantitative survey data. The reviews also revealed a significant gap in any comparative analysis of the effectiveness and impact of interventions to support livelihoods (see, in particular, Mallett and Slater, 2012). There is some evaluation and academic literature that examines the impact of particular projects or programmes, but very little that looks at the overall significance of aid in people's livelihoods and compares the impact of different approaches. The Nepal inception report also identified that the focus had been only on the material facet of livelihoods, leaving out people's aspirations and perceptions (Upreti et al., 2012). Thus, perceptions have been a major focus of the SLRC survey. SLRC's research programme aims to fill some of these gaps by building a picture of how people make a living in particular contexts and tracking how this changes over time.

2.2 Objectives of the panel survey

The panel survey will help us find answers to parts of our research questions under the first and third themes of the research programme.

Regarding the first theme, legitimacy, our approach is centred on documenting and analysing people's views on governance in conflict-affected situations. A cross-country panel survey incorporating questions about perception allows us to investigate difficult-to-measure, subjective issues such as trust and satisfaction, and provides both a comparative snapshot and a longitudinal perspective.

Under the third theme, livelihood trajectories, SLRC is undertaking rigorous, longitudinal livelihoods research. Our aim is to build a picture of how people make a living in particular contexts, to track how this changes over time and to shed light on what causes change. We want to know whether people are recovering or starting to build stronger and more secure livelihoods, whether they are stuck in poverty or sliding into destitution, and how the broader political, economic and security environment affects this. Implementing a panel survey that captures both the dynamics and the determinants of people's livelihoods enables a deeper understanding of these issues.

The SLRC cross-country panel survey therefore combines elements of both perception and livelihoods surveys, enabling a dual focus on governance and legitimacy, and livelihood trajectories. There are five points of added value in conducting a hybrid survey of this kind:

- 1 It allows us to link perceptions directly with experiences.
- 2 It generates rare panel data in fragile and conflict-affected contexts.
- 3 It allows us to identify similarities and differences between different fragile state contexts.
- 4 It allows us to differentiate between levels of government and different forms of governance.
- 5 It generates information on livelihoods beyond simple income measures.

2.3 Analytical frameworks

Three basic analytical frameworks emerged from the survey design process, which are outlined below and in greater depth in the synthesis paper (<u>SLRC, forthcoming</u>). It should be emphasised that, because this paper is based on the first round of the survey, the analysis is not geared towards identifying and explaining changes over time (which is why we talk about livelihood status as opposed to trajectory throughout the report). Rather, much of the analysis focuses on producing descriptive baseline statistics and identifying possible correlations and relationships between different sets of factors. The data collected also allow us to explain variations between Nepali households across a range of outcomes.

1 Livelihood and wellbeing status

Livelihoods and wellbeing are broad concepts and cannot be meaningfully captured by a single indicator. We have chosen to measure it in two different ways by looking at:

- Household asset ownership (as a proxy for wealth)
- Food security (using the Coping Strategies Index)

In the synthesis report (<u>SLRC, forthcoming</u>), we argue that variations in livelihood status can be explained by a number of different factors. These include:

- 1 *Household factors*. These include demographic characteristics of the household, religion/ethnicity of the household and education and migration characteristics.
- 2 Contextual factors. These include location, indicators accounting for season, occurrence of conflict, perceptions of safety in the neighbourhood and moving to work, as well as other indicators of livelihood opportunities/constraints (e.g. availability of credit).
- 3 Shocks experienced by a household. These include natural disasters and economic shocks, as well as crime and conflict.
- 4 Differential access to basic services, social protection and livelihood assistances and the quality of these services/transfers.
- 5 Serious crimes committed by parties to the conflict experienced by a household. These include serious crimes under international humanitarian and human rights law.

The aim of the quantitative analysis is to estimate if and to what extent the above factors determine the main outcome (household assets/food insecurity).

2 Access to and experience of basic services, social protection and livelihood assistance

We are interested in which factors determine access to and experience of services. We measure access to services in terms of distance in minutes to the closest service provider last used (for health, education and water) and someone having received a social protection transfer or livelihoods assistance.

Variations in access to services can be explained by a number of different factors. These include:

- 1 Individual and household characteristics (as discussed above).
- 2 Contextual factors (as discussed above).
- 3 Shocks experienced by the household (as discussed above).
- 4 Implementation and performance of basic services, social protection and livelihood assistance. Implementation and performance of (e.g. regularity of the provision, who provides the service etc.) may affect access to basic services, social protection and livelihoods assistance
- 5 Serious crimes committed by parties to the conflict experienced by a household (as discussed previously).

The aim of the quantitative analysis is to estimate if and to what extent the above factors determine the main outcome (access).

We measure experience in terms of overall satisfaction with the service provided (health and education), if clean water is being provided for water and self-perceived impact for social protection and livelihoods assistance.

In the synthesis report (<u>SLRC, forthcoming</u>), we argue that variations in experience of services can be explained by a number of different factors. These include:

- 1. Individual and household characteristics (as discussed above).
- 2. Contextual factors (as discussed above).
- 3. Shocks experienced by the household (as discussed above).

- 4. Access to basic services. We expect that distance to basic services is likely to affect experience of services.
- 5. Implementation and performance of basic services, social protection and livelihood assistance (as discussed above).

The aim of the quantitative analysis is to estimate if and to what extent the above factors determine the main outcome (satisfaction with the service/transfer).

3 <u>People's perceptions of governance and the role of service delivery</u>

Analysis of people's perceptions of governance is more complicated. We propose that perceptions of governance are determined, as before, by individual and household characteristics, context and shocks experienced. We then look specifically at the explanatory role of: (1) access to basic services, social protection and livelihood assistance; (2) experience of using these; and (3) implementation and performance of these.

We therefore propose that the following factors may determine people's perceptions of governance:

- 1 Individual and household characteristics (as discussed above).
- 2 Contextual factors (as discussed above).
- 3 Shocks experienced by the household (as discussed above).
- 4 Serious crimes committed by parties to the conflict experienced by a household (as discussed above).
- 5 Access to basic services, social protection and livelihood assistance. We expect that access to services and social protection and livelihood assistance affect perceptions of governance. In particular, not having access is likely to affect perceptions of certain governance actors.
- 6 Experience of using basic services, social protection and livelihood assistance. We expect that experience in using/receiving services and social protection and livelihoods assistance affects perceptions of governance. In particular, having a negative experience is likely to affect perceptions of certain governance actors.
- 7 Implementation and performance of basic services, social protection and livelihood assistance. Implementation and performance of services and social protection and livelihoods assistance may affect perceptions of governance. Waiting time, regularity and costs in accessing services and social protection are likely to determine how state governance is perceived by individuals, in particular if the transfer is government-provided.

The aim of the quantitative analysis is to estimate if and how much the above factors – and in particular those relating to services – determine the main outcome (perceptions of governance).

3 Research methodology

This section first covers parts of the survey design process, highlighting some of the challenges faced, before clarifying the sampling methods used and describing the characteristics of the final sample.

3.1 Methodology

The Nepal survey included the following modules: (1) basic household information; (2) individual information; (3) assets of the household; (4) livelihood sources and activities; (5) food security; (6) shocks and coping strategies; (7) security and justice services; (8) access to and experience of basic services; (9) access to and experience of social protection; (10) access to and experience of livelihood assistance; and (11) perceptions of governance. More information on the instrument design process can be found in the SLRC survey process paper (SLRC, 2013).

The SLRC survey incorporates elements of both livelihood and perception surveys, which raises a methodological issue: while the ideal unit of analysis for the livelihood survey is at the household level, for the perception survey it is at the individual level. After extensive discussion and consultation, it was decided to combine them in one survey, partly because of logistical and budgetary considerations, and partly in an active effort to link perceptions more directly to real and measurable changes in wellbeing. We opted to sample households, but to specifically seek out a varied range of gender and age-group respondents within these to avoid a strong bias of male household heads for the perception questions. For example, 56.3% of respondents were female, 75% were married, and while 50% of the respondents were in the age range 30-53, 25% were between 18-35 and another 25% above the age of 53.

Panel surveys are particularly rare in fragile and conflict-affected contexts. Part of the reason for this is that panel surveys are at risk of attrition – that is, households dropping out of subsequent survey rounds – and it is assumed that, because conflict often results in displacement, attrition is too high in conflict-affected situations. To account for this, we substantially increased the sample (see Section 3.2). The first round of the panel study was conducted in 2012 and the second will be conducted in 2015. The actual field survey was conducted from 24 September to 14 October 2012 in Rolpa and Bardiya districts in western Nepal, and from 28 October to 10 November 2012 in Ilam district of eastern Nepal.



Figure 1: Location of the sampled districts, Bardiya, Rolpa and Ilam, highlighted in red

3.2 Sampling methods and description of sample

The sampling strategy combined purposive and random sampling at different stages in order to ensure that we could make comparisons in terms of conflict-affectedness, remoteness and access to services while also being able to draw statistically significant conclusions at the study/district and village level.

Districts and VDCs¹ were selected purposively in order to locate the specific groups of interest and to select geographical locations relevant to the broader SLRC research themes, with wards selected randomly. The criteria of accessibility – conflict-affectedness and access to services – were used to select Rolpa, Bardiya and Ilam districts. Rolpa, where the armed conflict originated, was the most conflict-affected, followed by Bardiya and then Ilam. Rolpa is the most mountainous district in our sample, Ilam has a combination of hills and Terai (plains) and Bardiya is entirely Terai.

Three VDCs covering a range of levels of service provision were selected in every district. For example, in Rolpa, Liwang is the district headquarters, with a relatively higher level of service provision, Budagaon falls in the middle, and Thawang is highly remote with fewer services. In Bardiya district, the list in the same order was Guleria (the district headquarters) Belwa and Rajapur VDCs. In Ilam District, Ilam Municipality had the highest provision, followed by Pashupatinagar VDC and then Chulachuli VDC.

The survey did not attempt to achieve representativeness at the country or district level, but it did aim for representativeness at the village level. ² The voters list, obtained from the Election Commission of Nepal, was used for the sampling frame, and households were selected using a simple random sampling method. We used this list as it was relatively recent, freely available (unlike the latest census data) and cheaper than conducting a new household listing.

The sample size was calculated with three considerations: statistical significance at the district and village level; budgetary and logistical limitations; and accounting for attrition between 2012 and 2015. The minimum overall sample size required to achieve significance at the study level, given population and average household size in the districts, was calculated using a 95% confidence level and a confidence interval of 5%. The same criteria were used to calculate sample size at the village level. Finally, the sample was increased by 20% to account for attrition between 2012 and 2015 so that the sample size in 2015 is still statistically representative.

The overall sample size calculated for the survey was 3,175. A total of 3,176 questionnaires were actually filled in during the field, but two were incomplete, so most of the analysis is based on 3,174 questionnaires. This study did not exclude questionnaires with responses such as 'don't know' or 'not applicable', or with missing information. Table 1 shows the sampled households by district.

District	Frequency	% of overall sample population	% urban households	% rural households
Rolpa	717	22.6	0.0	100.0
Bardiya	1213	38.2	45.26	54.74
llam	1246	39.2	39.81	60.19
Total	3176	100.0	32.90	67.10

Table 1: Distribution of households by district

¹ Nepal has 75 districts. Each district has a number of VDCs/municipalities. VDCs are the lowest administrative level of government. They are divided into nine wards.

² It should be noted that, as the sample is not representative at the district level, wherever comparisons are made between different districts we are referring to the sample of this survey in the district, rather than the population at large. So for example if we say 'In Rolpa', we mean 'our sample in Rolpa'.

The distribution the sample size across districts was calculated based on the selected VDCs' population sizes within the district. The average size of the surveyed households was 5.0 (see Annex 1 Table 4, which is slightly higher than the national figure (4.88) from the 2011 census (CBS, 2012). Further, 67.1% of the surveyed households were from rural areas and 32.9% from urban areas. Across the country, 83% of the population resides in rural areas (ibid.). Just over half of the respondents (56%) were female.

Box 1: Ethnicity and caste in Nepal

Ethnicity and caste are intertwined in Nepal. In very general terms, the 'high caste' consists of Brahman and Chhetri in the hills and Brahman, Rajput, Bhumihar in Terai. Newar (also an ethnicity) are usually considered to be the 'middle caste'. There are 59 Adivasi/Janajati (indigenous groups) who are not part of the caste system but who are usually considered middle caste. The majority of Madhesi, like Yadav, Teli, are also in the middle category. The 'low caste' category consists of Dalits of the hill and Terai, both of which consist of more than 30 sub-categories.

In this survey we identify the following ethnic/caste groups: Brahmin/Chhetri, Janjati/indigenous groups, and Dalit. We also identify whether people are from mixed ethnic groups. We refer mostly to ethnicity, but mention caste where it is of interest.

With regard to household distribution by ethnicity, the majority of households were Janjati/indigenous groups (47.4%) followed by Brahmin/Chhetri (33.2%), Dalit (7.8%) and Madhesi (6.4%). The main religion in the surveyed districts was Hindu (81.4%), followed by Kirat (7.9%) and Buddhist (5%) (see Annex 1, Table 1). This broadly follows the national distribution.

The average literacy rate of all individuals in the sample was 76.6%. The male literacy rate was 84.3% and the female literacy rate 69.3% (see Annex 1 Table 2). According to the Population Census of 2011, the overall literacy rate of Nepal is 65.9%, with the male literacy rate at 75.1% and the female literacy rate at 57.4% (CBS, 2012). Our sample's higher-than-national-average literacy rate can be attributed to the fact that one-third of the sample consists of Ilam residents – who generally have higher-than-national-average literacy rates – and because we included the district capitals in the three districts. The findings show that that the mixed ethnicity group had the highest literacy levels (84.6%), followed by the Brahmin/Chhetri (84.5%), the Janjati and indigenous groups (73.8%), the Dalit (71.9%), Muslims (69.7%) and other caste groups (68.2%) (see Annex 1, Table 3).

Finally, Table 2 below shows how various household demographics, such as the proportion of working age members, vary depending on the district location of our sample population.

District	District Children (0-14)		Working age (15-59)		Older persons (60 or above)		Dependency ratio
	Number	%	Number	%	Number	%	
Rolpa	1,233	36.2	1,856	54.5	319	9.4	0.836
Bardiya	1,970	29.2	4,239	62.9	535	7.9	0.591
llam	1,379	24.3	3,660	64.5	632	11.1	0.549
Total	4,582	29	9,755	61.7	1,486	9.4	0.622

Table 2: Distribution of age group and dependency ratio by district

Note: The dependency ratio is calculated by dividing the sum of the total number of children (0-14) and elderly (60 or above) by the population of the working age group (15-59), so for every adult in the sampling population there are 0.622 children or elderly.

4 Livelihoods and wellbeing

This section explores the livelihoods and wellbeing of households in our sample by analysing our two main wellbeing indicators (food insecurity and household wealth) as well as livelihood activities.

The first of the indicators, food insecurity, is proxied using the Coping Strategies Index (see Maxwell and Caldwell, 2008). The index is a weighted sum reflecting the frequency with which households adopted particular behaviours over the course of the previous 30 days. The weights given to these coping strategies reflect their relative severity as follows (weights in parenthesis):

- Had to rely on less preferred and less expensive food (1)
- Had to borrow food or rely on help from friends or relatives (2)
- Had to limit portion size at meal time (1)
- Had to restrict consumption by adults in order for small children to eat (3)
- Had to reduce number of meals eaten in a day (1).

Thus, a higher Coping Strategies Index score indicates a higher level of household food insecurity.

The second indicator, household wealth, is proxied by the assets owned by the household using the Morris Score Index (MSI) (Morris et al., 1999). The MSI is a weighted asset indicator that weights each durable asset owned by the household by the share of households owning the asset. This essentially means that households are considered better off when they own assets not owned by most households in the sample.³

In this section, we present descriptive information on the main livelihood activities and the two wellbeing indicators, and draw on the results of regression analyses where appropriate in an attempt to identify possible determining factors of livelihood outcomes. We first look at livelihood activities – what households are doing in order to make a living – before moving on to discussions of food insecurity and then household wealth. We end by summarising the main findings of the section. Findings are statistically significant, except if specified otherwise.

4.1 Livelihood activities

The survey data allow us to examine the importance of particular livelihood activities in two main ways. First, we asked what different members of each household did in order to make a living in the past six months. Second, we asked respondents to tell us which activities were most important in terms of how much income they generated. Contrasting these two indicators (see Figure 2) offers some insightful results.

³ In the Nepali context, this index includes assets within four different categories. The first, 'household items', covers fridge, TV, mobile phones, fan/air conditioning unit, computer/laptop and radio. The second, 'livestock', covers medium livestock (goat, pigs, sheep etc.) and large livestock (horses, bullocks, cows, yaks, buffaloes etc.). The third covers 'tools and machinery': animal-powered tools/machinery such as ploughs; petrol-powered machinery such as tractors, harvesters, threshing machines. The fourth includes 'transportation': man-powered vehicles (bicycle, rickshaw, hand cart) and petrol-powered vehicles (motorbike, car, truck). We computed the weight of each asset by calculating the reciprocal of the share of households owning the asset and then constructed the Morris index by adding all the product of number of asset and their respective weight.

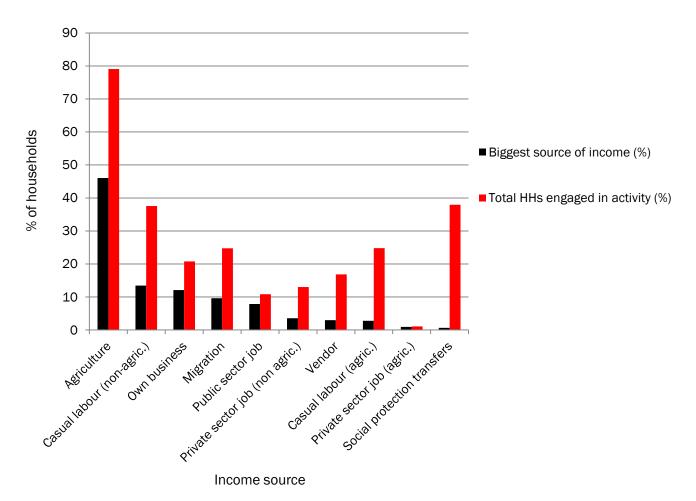


Figure 2: Livelihood activities, by main income source and percentage of households with a member above the age of six participating in each activity.

Note: The recall period for livelihood activities and income source is six months, however for remittances it is three years, so this figure overstates the importance of remittances. Household members may participate in multiple livelihood activities, but only have one main income source, which explains why the 'engaged in activity' percentages add up to more than 100%.

A majority (79.1%) of households engaged in some agriculture (either cultivation, livestock rearing or fishing) compared to the 37.6% of households engaged in casual labour in a non-agriculture sector (37.6%) and 24.8% of households engaged in casual labour in the agriculture sector (24.8%) (see Annex 1, Table 5). While around 10% of households had at least one member working in the public sector, the share of households with at least one member holding a private sector job was negligible. Only a negligible share of households was engaged in paid housework and child care, which may be explained by the fact that paid domestic work is a recent phenomenon in Nepal, associated mainly with Kathmandu.

The proportion of households engaged in agriculture was highest among our sample in Rolpa (94.8%), which makes sense given that most of the people there have their own land (of varying size), which they use for farming (see Annex 1, Table 6). Involvement in agriculture was similarly prevalent for most ethnic groups in the sample, including Janjati/indigenous (84.0%), Dalit (80.2%) and Brahmin/Chhetri (78.3%) (see Annex 1, Table 7).

Agriculture was also identified as the most important income source for about 46% of households – greater than any other livelihood activity (see Annex 1, Table 8). 13.5% of households reported that casual labour in the non-agriculture sector was their most important income source, 12.1% reported owning a business, 9.6% reported remittances and 7.9% reported employment in the public sector. A

very small proportion of households (0.7%) reported that social protection constituted the most important income source.

These findings are generally in line with results from the most recent Nepal Living Standards Survey (NPC, 2011). Data from that survey reveal that the main sector of employment in Nepal for both men and women is self-employment in agricultural activities, with 28% of household income generated through agriculture. This is followed by 17% from remittances. In Nepal, remittances now account for 25% of GDP (World Bank, 2013). Our data show that around one-quarter (24.8%) of households reported receiving remittances in the previous three years. However, remittances were identified as the primary source of income by just 9.6% of households (see Table 9 in Annex 1).

4.2 Food security

Nepal was largely food-secure until the 1980s (Adhikari, 2010), but with population growth and low agricultural production in the 1990s (Tiwari, 2007) levels of food insecurity began to rise. However, different regions and districts have experienced different forms of food insecurity.

For our survey, we measured food insecurity using the Coping Strategies Index. Coping Strategies Index scores ranged between 0 and 32.0, with a mean value of 3.23 and a median value of 0.0; the distribution of food insecurity scores across all households in the sample shows that 70% of households fell below the mean. The low median value emerges because 56% of surveyed households did not report using any food insecurity coping strategies, with a further 19.1% of households adopting such strategies only very rarely. Only 13.2% had to adopt coping strategies four to five times during the period in question. This indicates low levels of food insecurity in the sample areas at the time of the survey, which makes sense given that the survey was conducted in the post-harvest period.

There were some slight but statistically significant variations across districts, with the average level of food insecurity in Rolpa and Bardiya higher than in Ilam (see Table3).

Table 3: Coping strategies by district and urban/rural status

	District		Urban/rural status			
	Bardiya(***)	llam(***)	Rolpa(***)	Urban(***)	Rural (***)	Total
Coping strategies index	3.85	2.37	3.69	3.65	3.03	3.23

Note: Asterisks indicate whether the mean for each group is statistically different from the sampled population as a whole (* significant at 10%; ** significant at 5%; *** significant at 1%).

A surprising finding is that the mean Coping Strategies Index is lower for rural households in the sample (mean 3.03) than urban households (mean 3.65) (see Table 3 above). This difference is brought out even more clearly through regression analysis (see Annex 1, Table 10), the results of which indicate that urban households are significantly more likely to be food insecure. While this could be explained partially by a lower availability of land for production in urban areas or by high inflation of food prices in recent times, it contradicts findings from the wider literature that rural or hilly areas in Nepal are particularly food insecure (Adhikari, 2010; Ghale and Bishokarma, 2013; Gill et al., 2003). Indeed, some studies show that while Nepal is a country with generally low food security, rural areas are relatively more vulnerable in terms of the range of livelihoods options available to people – something which has been exacerbated by insurgency (Seddon and Adhikari, 2003; Upreti et al., 2012).

We also find that mean food insecurity scores are highest for households engaged primarily in nonagricultural casual labour (7.125) and lowest for those engaged primarily in agricultural casual labour (1.06) (see Table 4). This is surprising at first sight, since casual labour in agriculture is by definition not a reliable income source and casual labourers are also not likely to own their own land. This finding could be explained by the post-harvest timing of the survey or by labourers being paid in food. We need to explore this unexpected finding further in the qualitative fieldwork.

Casual labour (non-agriculture) Own business	7.125
Own business	F 00
	5.28
Social protection transfer	4.9
Selling goods	3.82
Agriculture	3.35
Private sector job (non-agriculture)	2.53
Remittances	2.24
Paid housework and child care	1.94
Public sector job	1.93
Casual labour (agriculture)	1.06

Table 4: Mean food insecurity score, by main household income source (n=3,176)

Note: Asterisks indicate whether the mean for each group is statistically different from the sampled population as a whole (* significant at 10%; ** significant at 5%; *** significant at 1%).

Of the ethnic groups in the sample, Brahmin/Chhetri households had the lowest mean food insecurity score (1.9), followed by Mixed (2.5), Other (3.0), Janjati/indigenous (3.2), Dalit (5.0), Muslim (5.5), and Madhesi/Marwadi (7.3) (see Table 11 in Annex 1). This finding is surprising and unexpected, as Madhesi/Marwadi households are generally understood to be the among the most food secure groups, often engaging in business activities.

We observe a negative correlation between household wealth (as proxied by asset ownership) and food insecurity (see Annex 1, Table 12). That is, the wealthier the household, the less food insecure that household is. Results from regression analysis confirm this relationship.

What might explain variations in levels of food security within our sample? Regression analyses using food insecurity as the main dependent variable suggest a number of factors might be important (see Annex 1, Table 10).

First, we find that higher levels of education, greater household wealth (using the Morris score as a proxy) and the ability of a household to obtain a loan in an emergency are all significantly associated with lower levels of food insecurity. These variables speak to a household's capacity to minimise the risk of not being able to access food when times get tough. At the same time, we also find that femaleheaded households are also likely to be less food insecure.⁴ This finding is unexpected, since households with female heads tend to be worse off. We think this may be the case because femaleheads often prioritise food consumption over other types of expenditure.

Second, we find that households experiencing a greater number of crimes in the last three years are likely to be more food insecure. Both of these findings make sense, as these households are more likely to be vulnerable.

Third, we find that households in urban locations were significantly more likely to be food insecure, possibly owing to a lack of access to land for agriculture and the associated safety net benefits of subsistence agriculture and recent food price hikes. However, as indicated earlier, this finding is unexpected and could be restricted to our specific sample only or could indicate that the drivers and dynamics of food security in Nepal are changing.

Fourth, we find that receipt of a social protection transfer is associated with higher levels of food insecurity. It is unlikely, however, that receipt of social protection is a cause of food insecurity; rather,

⁴ This survey did not ask who the household head in the survey was. We retrospectively defined female-headed households as those households that had no male adults.

given the link found here, this may well be a sign of well-targeted social protection programming (i.e. food-insecure households are more likely to receive social protection).

Fifth, we find that satisfaction with different services seems to be linked in mixed ways with levels of food insecurity. For example, while satisfaction with health and education are both associated with greater food insecurity, respondents who perceive their water source to be clean and safe are likely to be less food insecure.

4.3 Household wealth

As outlined above, we use asset ownership as a proxy indicator for household wealth, measured in turn by the MSI. Overall, the asset index score for all sampled households ranged between 0 and 305.2, with a mean value of 19.7 and a median of 14.6. This means the majority of households own fewer assets than the mean.

As Table 5 shows, MSI scores vary by household livelihood activity (as measured by main income source). We see that households that owned their own business or had members employed in a public sector job had much higher mean scores than other kinds of households. Casual labour households had the lowest mean scores. Of particular interest here are households engaged in agricultural casual labour: while such households were, on average, the least food insecure, they were also the second worst-off in terms of asset ownership. This reinforces the argument presented that if agricultural casual labourers are paid in food (reducing their food insecurity index), they continue to have few assets.

Main income source (***)	Mean MSI score
Own business	28.97
Public sector job	27.51
Livestock/fishing	19.80
Selling goods	19.64
Private sector job (non-agriculture)	18.48
Social protection transfer	16.24
Remittances	16.22
Private sector job	14.63
Casual labour (agriculture)	12.85
Casual labour (non-agriculture)	11.24

Table 5: Mean Morris Score Index scores, by main household income source (n=3,176)

Note: Asterisks indicate whether the mean for each group is statistically different from the sampled population as a whole (* significant at 10%; ** significant at 5%; *** significant at 1%).

In order to identify which variables might be influencing levels of household wealth, regression analyses were carried out (see Table 13 in Annex 1). A number of variables are found to be statistically significant.

First, we find that certain household characteristics appear to determine levels of wealth. As expected, higher education levels and a household's ability to access loans in an emergency, for example, are associated with higher levels of wealth. In contrast, households with a migrant and households with higher dependency ratios are significantly more likely to have lower levels of wealth.

Second, and contradicting our findings on food security, households in an urban location were more likely to have higher levels of wealth, suggesting there is something about being based in a town or city that is beneficial for asset accumulation but detrimental for food security.

Third, we find that receipt of either social protection or livelihoods assistance is associated with higher levels of wealth. The direction of influence, however, is unclear: while these forms of assistance may increase household wealth (for instance social protection may protect households against asset

depletion, such as when assets are sold to buy food), it might alternatively be the case that wealthier households are more likely to access such support.

Fourth, and in contrast to the regression results for food insecurity, we find that female-headed households are likely to be less wealthy.

4.4 Summary of findings on livelihoods and wellbeing

This section has looked at the determinants of livelihoods and wellbeing, analysing livelihood activities, household assets and household wealth. In addition to the noteworthy findings that emerge on each of the individual livelihood status outcome indicators, looking across the results of the statistical analysis reveals a number of key issues with respect to livelihoods in the sampled population. We note three features in particular here.

First, the data show that **agriculture remains the major livelihood activity**, with close to 80% of households participating in agriculture. It is the most important income source for around 46% of households. Only a negligible share of households had members who held a private sector job, while about 10% of households had at least one member working in the public sector.

Second, we find that **higher levels of household education and the ability of a household to obtain a loan** in an emergency are significantly associated with lower levels of food insecurity and with **higher levels of asset ownership**. The significance of the 'access to a loan' variable suggests that, when households have access to financial safety nets or response mechanisms such as loans, particularly in tough times, they are more likely to be better off. Of course, the direction of causality might flow the other way: it may instead be that wealthier, more food-secure households find it easier to access loans, perhaps because they are trusted more by other households and financial organisations. On the other hand, we find that households from **poor households are more likely to be food insecure and have fewer assets**.

Third, in terms of the links between food insecurity and asset ownership, there are four variables that stand out. We find that female-headed households are likely to be less food insecure but also less wealthy. It is not clear why this is the case, but women may prioritise 'consumption' over asset-building, as research from some countries suggests (e.g. Khan and Khalid, 2012 for Pakistan). We also find that households in urban locations in our sample are likely to be wealthier but more food insecure; questions about land might be particularly important here, as those in urban areas may lack the safety net effects of subsistence agriculture when food prices spike. We find that receipt of a social protection transfer is associated with greater wealth but also with higher levels of food insecurity, possibly because social protection protects households against asset depletion, but we cannot draw any conclusions on the direction of causality. And finally, although not sharing a statistically significant relationship with food insecurity, receipt of a livelihoods assistance transfer is also associated with greater household wealth.

5 Basic services, social protection and livelihoods assistance

In this section, we look at people's access to and experience with a range of basic services, including health, education, water, social protection and livelihoods assistance. We provide information on how access and experience vary across the sample, before drawing on regression findings to try and explain what might be driving the variations. Findings are statistically significant, except if specified otherwise.

We use a simple indicator of access to basic services: journey time. For health services, this means the time taken in minutes to travel to the nearest health clinic; for education it means the time taken in minutes to travel to the primary school used by the household (we asked this separately for girls and boys); and for water it means the time taken in minutes to travel to the water access point used by the household (if that point is located outside of the dwelling). For social protection and livelihood assistance, we measured access by asking whether at least a single member of the household had received a transfer in the last year. An explanation and justification of the specific explanatory variables can be found in the SLRC synthesis report (SLRC, forthcoming).

In exploring experience of services, we are particularly interested in how individuals perceive the basic service and/or social protection or livelihood transfer. For basic services, we consider individual-level perceptions of satisfaction with the basic service, both in an overall sense (asking, 'Overall, how satisfied are you with the quality of the service on the basis of your most recent use of [insert service]?'), as well as in a more disaggregated sense (by asking people about their experience with particular characteristics of a service, such as waiting times, teacher attendance and so on). For social protection and livelihood assistance, we use perceived impact as a measure of experience. An explanation and justification of the specific explanatory variables can be found in the SLRC synthesis report.⁵

5.1 Health

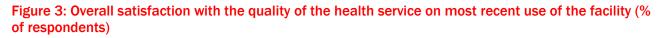
For the sample population as a whole, the mean time taken to reach the nearest health centre was 40.22 minutes. There are large and statistically significant differences in journey times between households in each of three districts. Journey times were lowest for households in Bardiya (20.93 minutes) – a district in the relatively accessible and well-connected Terai – whereas in Rolpa and Ilam the average times taken were 61.53 minutes and 46.75 minutes, respectively (Table 14 in Annex 1).

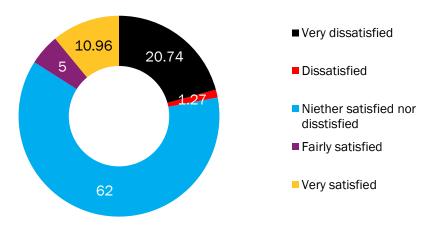
Regression analysis suggests that a series of factors might be responsible for causing variations in households' access to health clinics (Table 15 in Annex 1). As in the descriptive statistics, geography is particularly important, with households in Rolpa being significantly more likely to face longer journey times. Part of this can be explained by the more difficult terrain of the district compared with Bardiya and Ilam. We also find that higher levels of education within the household are associated with shorter journey times. It is not clear why this is the case, although it could be linked to location, as more highly educated households are more likely to be found in urban areas. Shorter journey times are also, surprisingly, associated with experiencing conflict in the last three years; however, the greater the number of shocks experienced by a household in the previous three years, the longer their journey time to the health clinic was likely to be. This is a trend that is also observed for other services. Finally, a series of factors related to the running of the health service emerged as statistically significant:

⁵ In the following analysis, we examine cross-tabulations and correlations between different sets of factors, before exploring possible determinants of access and experience through regression analysis. Whenever the dependent variable is a scale variable we use the Ordinary Least Squares method to estimate the multiple linear regression model; when the dependent variable is binary we use the logit model; and when the variable is categorical/ordinal we use the multinomial logit model.

households who had to pay official fees at the clinic, whose clinic was run by government or who had attended a community meeting on health services were all more likely to face longer journey times.

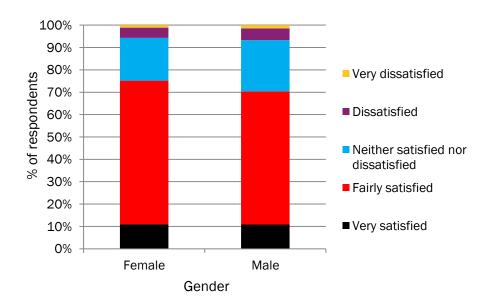
Overall, respondents seemed relatively satisfied with the quality of health services (based on their most recent use of the facility). As Figure 3 shows, more than 70% of those interviewed reported being either 'very' or 'fairly' satisfied with the service. Just over 6% reported being either 'very dissatisfied' or 'dissatisfied'.





Do levels of satisfaction differ by gender? Figure 4 shows the breakdown of satisfaction levels by gender of the respondent. There is a statistically significant difference between satisfaction levels for male and female respondents. We observe that a slightly higher proportion of female respondents (64.2%) reported being 'fairly satisfied' with the health service compared with male respondents (59.6%), indicating higher satisfaction levels among female respondents. Further research is needed to explain this finding.





Note: The mean for each group is statistically different from the sampled population as a whole, significant at 5% level.

In terms of the geographical distribution of levels of satisfaction, Figure 5 shows that 'fairly satisfied' respondents were most common in Rolpa (70.6%), followed by Bardiya (63.1%) and llam (56.4%). Ilam had the largest proportions of respondents reporting being either 'very dissatisfied' or 'dissatisfied'. This finding is somewhat unexpected, since it runs counter to levels of access by district. It seems to indicate that households assess satisfaction independently from travel time.

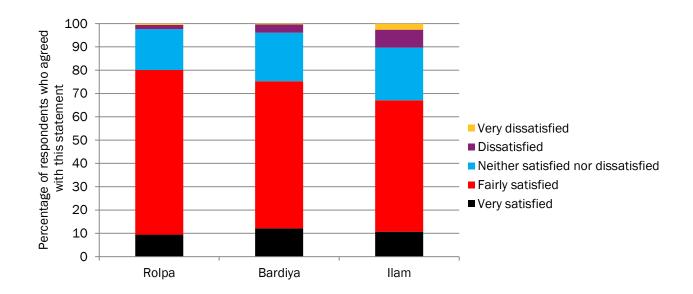


Figure 5: Levels of satisfaction with the health service, by district

Note: The mean for each group is statistically different from the sampled population as a whole, significant at 1% level.

We also observe a statistically significant variation in levels of satisfaction by ethnicity of respondent; however, the levels of satisfaction are not clearly linked to the ranking of castes/ethnicities and the social status/wealth these imply. As Figure 6 illustrates, Janjati/indigenous and Dalit respondents tended to be somewhat more satisfied with the health service relative to other ethnic groups.

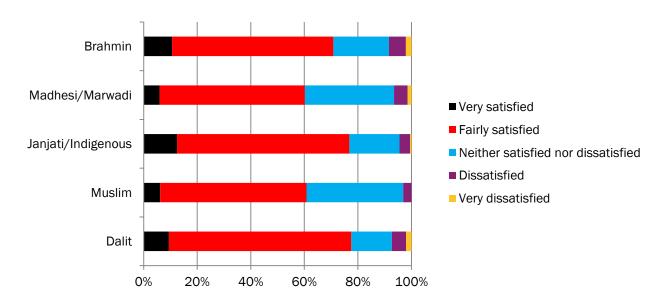
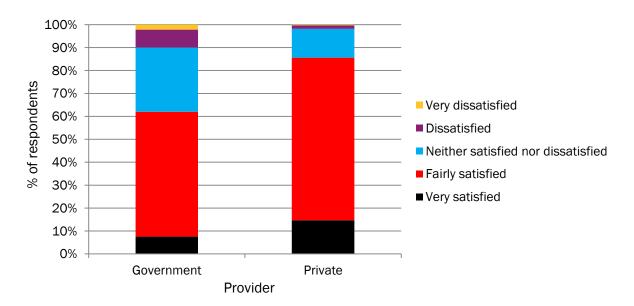


Figure 6: Levels of satisfaction with the health service, by ethnicity

Note: The mean for each group is statistically different from the sampled population as a whole, significant at 1% level.

Finally, we looked at how levels of satisfaction vary depending on whether the clinic was run privately or by the government. Figure 7 shows some fairly large differences between the two, with a considerably

higher proportion of respondents using private health clinics reporting being either 'very' or 'fairly' satisfied with the service compared with respondents using government-run clinics.





Note: The mean for each group is statistically different from the sampled population as a whole, significant at 1% level.

What explains why some people are more satisfied than others with their health clinic? Our regression analysis points to a number of different factors (see Table 16 in Annex 1).

First, we find that when respondents were dissatisfied with specific aspects of the health clinic – such as waiting times, availability of medicine and number of qualified staff – they were much more likely to be dissatisfied with the service overall. This suggests that the way a health service is implemented and run determines, at least in part, levels of satisfaction more generally, rather than factors not related to direct experiences of the service. Similarly, regression results show that respondents who have to pay fees – either official or informal – as well as those who attend a clinic run by the government are more likely to be dissatisfied with the overall service.

Second, we find that respondents living in urban households were less likely to report dissatisfaction with the health clinic, as were those who report feeling safe in their neighbourhood. Respondents from households located in Rolpa or Bardiya were similarly less likely to report dissatisfaction compared to their counterparts in llam.

Finally, we find that the greater the number of shocks experienced by a household in the last three years, the more likely their respondent was to report dissatisfaction with the health clinic. Therefore, such respondents were both more likely to (1) face longer journey times to a clinic, and (2) report dissatisfaction with the service.

5.2 Education

Access to education was measured using journey times to both primary schools by girls and boys within households. Boys' and girls' access to primary education was separated in order to examine whether gender norms and discriminative practices towards girls still exist. Figures 8 and 9 show the difference in travel times between girls and boys.

Figure 8: Travel time to primary school - boys

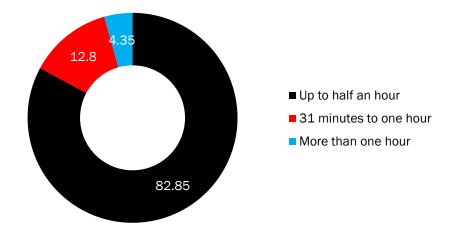
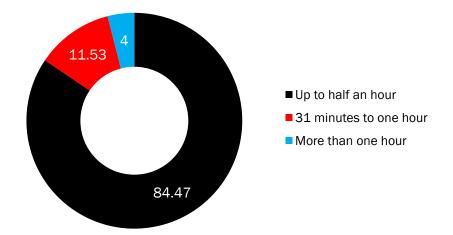


Figure 9: Travel time to primary school – girls



There is very little difference between girls' and boys' travel times. Girls travelled on average 23.7 minutes to school and boys 24.9 minutes. Boys' longer travel times seem to be linked to the types of schools boys were attending. Among the girls going to primary school, 63.4% went to a government school, whereas 36.7% went to a private school. In comparison, 41% of boys went to private primary schools. The difference is small but statistically significant. This suggests that boys' slightly longer travel time may be explained by the fact that they are more likely to attend a private school than girls – with private schools often being further away. The reasons why boys are more likely to attend private schools than girls need to be explored further in order to understand if there is gender discrimination at play.

Two separate regression analyses were performed in order to identify factors associated with journey times: one for boys, one for girls (Annex 1, Tables 17 and 18). Three independent variables were found to be statistically significant for both boys and girls. First, households whose main income source is 'own cultivation' are more likely to face longer journey times to schools. Second, urban households are also more likely to face longer journey times. Third, households from our sample population in Bardiya district are more likely to face shorter journey times compared to households in Ilam.

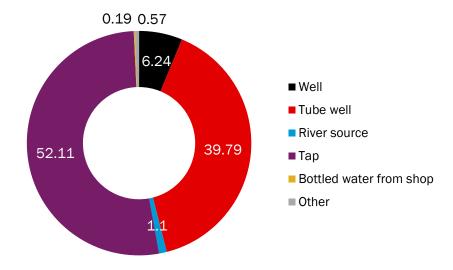
We also carried out two separate regression analyses to identify factors associated with levels of overall satisfaction with the quality of the education service: again, one for boys, one for girls (Annex 1, Tables 19 and 20). The main finding is that satisfaction with a range of specific aspects of the service – such

as teacher attendance, class sizes and quality of the teaching – is highly correlated with greater satisfaction with the service as a whole. Again, this strongly suggests that the specific features of a service are important in shaping people's overall perceptions.

5.3 Water

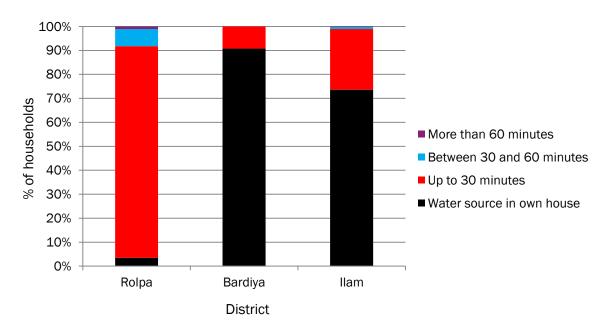
Survey data tell us that the majority of households (52%) in our sample population accessed their water from a tap, compared to 40% who drew their water from a tube well. The share of households relying on either bottled water from shops or river sources was low (0.2% and 1%, respectively) (see Figure 10).

Figure 10: Source of water (% of households)



In terms of how long it takes households to access water, we find considerable statistically significant differences in journey times across the three districts, as Figure 11 illustrates. We can see that while 90.8% of households in Bardiya and 73.6% of households in Ilam had access to water in their own house, just 3.5% of households in Rolpa enjoyed the same level of access.





Note: The mean for each group is statistically different from the sampled population as a whole, significant at 1% level.

Results from the regression analysis confirm the descriptive information provided above: households from our sample population in Rolpa are significantly more likely to face longer journey times to water points compared to those in Ilam (Annex 1, Table 21). What the descriptive statistics do not show is that households in Bardiya are more likely to face longer journey times (compared to households in Ilam). Various features of the service are also found to be statistically significant: while having to queue for water is associated with longer journey times, households who attended a community meeting about water services in the last 12 months were more likely to face shorter journey times.

Coming to who is responsible for the water source used, most of the households in our sample (60.5%) were found to be responsible for their own water source, while 26.5% of households accessed water points run by the government. An even smaller proportion of households (4.4%) used water points provided through non-governmental organisations (NGOs) (see Table 6).

Responsible for source of drinking water	Percent of total
Government	26.5
Self	60.5
NGO	4.4
Other	8.6
Total	100.0

Table 6: Access to water by actors responsible for provision

When asked about the (perceived) quality of the water they used, the vast majority of households in the sample (89.4%) reported having access to clean and safe water. We observe slight variations in the (perceived) quality of water across different groupings of the overall sample. For example, the following descriptive statistics show that:

- Relatively more households in Ilam (92.3% of the sample there) reported access to safe and clean water compared with Rolpa (88.8%) and Bardiya (86.8%) (see Annex 1 Table 22). This difference is statistically significant.
- 95% of those accessing water provided through NGOs perceived the quality to be good, compared with 92.3% of those using government-run water points and 88.2% of those using private or personal sources; this difference is statistically significant (see Annex 1 Table 23).
- Relatively fewer food-insecure households had access to safe and clean water compared with food-secure households (see Annex 1 Table 24). While the correlation is statistically significant, we cannot be sure in which direction causality goes, or if both are the result of a third factor, such as poverty.

Although the variations in (perceived) quality are relatively marginal in most cases, we can identify a number of factors through regression analysis that help explain which kinds of households are more likely to access (perceived) quality water sources (Annex 1, Table 25).

First, households in urban areas are less likely to have access to water perceived to be clean and safe. Households in Bardiya and Rolpa are also less likely to have access to such water, compared to those in Ilam. It is not clear whether higher initial expectations have resulted in lower subjective assessments of quality, or whether this is related to health issues as a result of unclean water, as anecdotal evidence indicated during the fieldwork.

Second, we find that respondents from households characterised by either greater food insecurity or higher dependency ratios were also less likely to report accessing clean and safe water.

Third, having to queue and pay for water are both associated with households being less likely to have access to clean and safe water. Queuing to fetch water already suggests that these people do not have their own source of water in their houses in the first place. Moreover, the water obtained by queuing is

mostly sourced from public tube wells, or is natural stone tap water. These sources are often not cleaned regularly, so it could be the case that their water is contaminated and unsafe. The association with having to pay for water is slightly more difficult to interpret. This might be a reflection of a lack of regulation of companies selling water, but further research needs to be conducted before we can fully understand this finding.

Finally, we find that respondents were more likely to report receiving clean and safe water if their service is provided by either the government or an NGO.

5.4 Social protection

Our survey asked respondents whether any member of their household had received any of a range of social protection transfers in the last year, including the Old-Age Allowance, the disability grant, the single woman/widow allowance, and others. More than one-third of households (38%) had received at least one social protection transfer in the previous year. The most commonly received social protection transfers were the child grant (15.6% of households in the sample), the Old-Age Allowance (12.5%) and the single woman/widow allowance (6.9%).

A statistically significantly higher proportion of households in Rolpa (44.7%) received some social protection compared with households in Bardiya and Ilam (see Annex 1 Table 26). This may be explained partially by geographical variations in degrees of conflict-affectedness, and the subsequent targeting of certain transfers to those affected by war. Indeed, Rolpa has been a focus of attention since the conflict: the district has become a centre for many NGOs and international NGOs, as well as government and other development organisations.

Receipt of social protection also varied according to household size, with differences being statistically significant. Among households of six persons or more, 55.2% had been receiving at least one social protection transfer; for households of four to five members to figure was 37.5% and for households of one to three members it was 24.9% (see Table 27 in Annex 1). From this, it is clear that a greater proportion of large families receive some form of social protection. This is arguably because such households have more members (children, older people) who are eligible for social protection. This is confirmed by regression analysis, which shows that the greater the number of children or elderly living in the household, the greater the likelihood of the household receiving social protection.

Dalit households are specifically targeted with a number of social protection transfers. Our data confirms this: receipt of transfers was most common among Dalit households: 67% of them receiving social protection (with a statistically significant difference) compared with 56.9% of Madhesi households and 44.3% of Muslim households. This is also confirmed by regression analysis (see Table 28 in Annex 1).

Regression analysis suggests that a number of further variables are significantly associated with the receipt of social protection (Annex 1, Table 29):

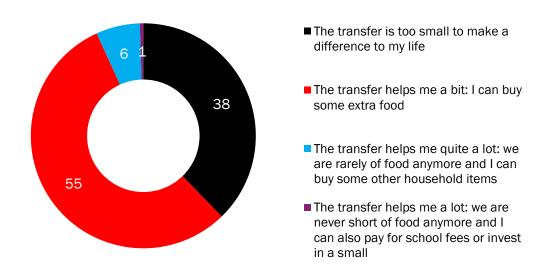
- The greater a household's average age, the more likely it is to have received a social protection transfer. This can partially be explained by the prevalence of universal old-age pensions in the surveyed households.
- Female-headed households are more likely to have received social protection (indeed, this
 variable was found to have the strongest effect size out of all variables in the regression
 model).
- Those who engage in agricultural activities, such as cultivation, livestock or fishing, are more likely to have received a social protection transfer.
- Households with higher (median) education levels or who receive remittances are less likely to have received social protection.
- Those who experience more food insecurity are more likely to have received social protection. Consistent with this, people who employ negative coping strategies such as eating less or eating less preferred food are more likely to have received social protection.

When taken together, what these results suggest is that social protection programmes in the three districts surveyed seem well targeted, with the receipt of transfers consistently associated with various appropriate characteristics of eligibility. However, in what appears to be a pattern across different services, regression analysis also suggests that the greater the number of shocks experienced by a household in the past three years, the less likely they are to receive social protection transfers.

What do the 38% of households that receive social protection think about how effective the transfer is in terms of improving household-level outcomes? Of particular interest for this study is the Old-Age Allowance. This is one of the most widely disbursed transfers in Nepal: indeed, our data show that 398 households surveyed had received the Old-Age Allowance in the previous year (12.5% of the sample).⁶

As Figure 12 clearly shows, the majority of beneficiaries of the Old-Age Allowance felt the transfer helped them 'a bit'. It might, for example, allow them to buy some extra food. A further 37.7% of beneficiaries felt it was 'too small to make a difference' in their life. Less than 7% of beneficiaries attributed more positive (perceived) impacts to the transfer.

Figure 12: Respondents' perceptions of the Old-Age Allowance (% of respondents)



Perceptions of the impact of the Old-Age Allowance varied by relatively marginal amounts across the three districts but these differences are statistically significant (see Table 30 in Annex 1). We do observe some variations across ethnic groups, however, with Dalit households being most positive about the usefulness of the transfer and Janjati/indigenous groups generally the least positive (the difference is statistically significant). Figure 13 shows perceptions of the Old-Age Allowance by ethnic group.

⁶ The Old-Age Allowance programme has a unique history in terms of its establishment and coverage. While this transfer is universal among a specific age group, there are still some constraints on its reach. An analysis of the political economy of this cash transfer is planned for the near future.

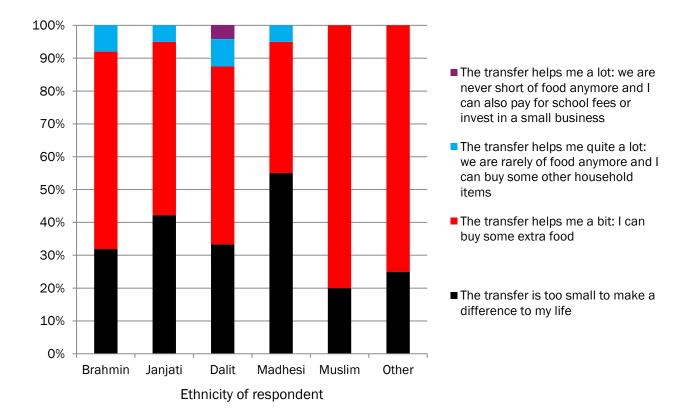


Figure 13: Respondents' perceptions of Old-Age Allowance, by ethnic group

Note: The mean for each ethnic/caste group is statistically different from the sampled population as a whole, significant at 10% level.

We do see some further variations in perceptions of impact depending on the frequency with which the transfer is received. For example, 58.3% of respondents in households that had been receiving the Old-Age Allowance on a monthly basis felt it helped 'a bit', compared with 52.9% of those in households that received it as a quarterly payment, and 51.8% of those in households that received a one-off payment. This implies that the more frequent the payment, the more the transfer was perceived to have helped. However, these differences are not statistically significant. In the latter group, 43.8% of respondents said the transfer was too small to make difference in their lives – a substantially higher share than for those that received a more frequent payment. This shows that beneficiaries seem to prefer regular payments to lump sum payments. Further, respondents in households that always or sometimes received the right amount felt more positive about the transfer than those rarely or never receiving the right amount. Overall, these findings show the importance of reliability and adequacy of the transfer in terms of achieving positive satisfaction.

Regression analysis of the data suggests that very few factors are significant in explaining variations in the perceived impact of the Old-Age Allowance (see Annex 1, Table 35). Two variables consistently demonstrate statistical significance: the number of crimes experienced by a household in the previous three years, and how safe a respondent feels in their neighbourhood. Thus, respondents from households experiencing a greater number of crimes or from safer neighbourhoods (as perceived by the respondent) were more likely to report that the Old-Age Allowance was helpful to them. There is some additional evidence that respondents were less likely to agree that the transfer was helpful if they did not receive it on time.

5.5 Livelihoods assistance

Livelihoods assistance refers to a range of interventions provided by the state or aid agencies designed to increase the productivity of primarily rural and agricultural households. Our survey asked respondents whether their household had received any of a number of such interventions, from seeds and tools to fertiliser vouchers, in the previous year. Data show that a relatively small proportion of households received any form of livelihoods assistance – just 16.4% of the sample.

In terms of how receipt breaks down geographically, we see that a significantly higher share of households in Rolpa (around one-quarter) had received at least one form of livelihoods assistance in the previous year compared with 11.7% in Bardiya and 14.4% in Ilam (Annex 1, Table 32). We also see that a statistically significant higher proportion of Dalit households (22.7%) had received at least one form of livelihoods assistance in the previous year compared with other ethnic groups. For example, just 6.4% of Madhesi households and 15.6% of Janjati/indigenous households had received any form of support (Table 33 in Annex).

Interestingly, as Table 7 shows, households that had received livelihood assistance also had, on average, a higher MSI score and lower food insecurity (although the latter is not statistically significant). Further analysis is needed to determine the causality of this correlation: while it might be telling us something about the effectiveness of livelihood assistance – that is, households receiving livelihood assistance are able to increase assets and reduce food insecurity – it could alternatively be an indication of elite capture of such assistance.

Getting at least one form of livelihoods assistance	Average Morris Index (***)	Average food insecurity index	Average number of shocks (* * *)
No	19.01	3.28	2.28
Yes	23.19	2.97	2.47
Total	19.69	3.23	2.32

Table 7: Receipt of livelihood assistance by household wellbeing levels

Note: Asterisks indicate whether the mean for each group is statistically different from that of that of the other group (* significant at 10%; ** significant at 5%; *** significant at 1%).

Regression analysis of the survey data reveals some interesting patterns (see Annex 1, Table 34) that largely confirm the descriptive statistics. We find that, compared to households in Ilam, households from our sample population in Rolpa were more likely to receive livelihood assistance, while households in Bardiya were less likely to receive it. On the other hand, a household was more likely to access livelihood assistance if it had greater assets (supporting what the descriptive statistics found), if it had received remittances or if it had participated in community meetings regarding livelihood assistance. Interestingly, we also find that households experiencing a greater number of crimes in the last three years were more likely to receive such assistance – as noted above, the opposite is true for access to social protection. Descriptive statistics show that households in Rolpa are more likely to have experienced crimes than households in other districts. This could be an indication that livelihood assistance is targeted towards those households that have experienced crime and conflict.

However, while the proportion of households receiving livelihoods assistance was relatively small, we find that those that did receive it tended to feel the support helped their household – this is in contrast with perceptions of the impact of social protection transfers, which were less positive overall. When asked if the service had helped improve agricultural production or another livelihood activity, 80.4% of beneficiaries responded that it had. There were no statistically significant differences by gender, with 80.3% of men and 80.4% of women reporting positively.

Looking solely at seeds and tools, regression analysis suggests a number of factors are associated with perceptions of the effectiveness of the intervention (Annex 1, Table 35). First, respondents are considerably more likely agree that seeds and tools helped increase their productivity if the transfer was

received on time. This makes intuitive sense – if seeds and tools arrive too late in the agriculture season, they cannot be utilised productively. Second, respondents who reported feeling safe in their neighbourhood were also more likely to agree that the transfer was helpful. Possible reasons include because these households may be more willing to invest and/or there is less theft. Third, we find that both the Morris and food insecurity index are significant. Respondents from wealthier households were more likely to agree that the transfer was helpful, and those from more food insecure households were less likely to agree. Again, a possible reason why is that wealthier and less food-insecure households are more able to make additional investments that are needed to productively utilise the tools and seeds.

5.6 Summary of findings on basic services, social protection and livelihoods assistance

Looking across the range of services covered in this section – health, education, water, social protection and livelihoods assistance – we can identify four key findings regarding households' access to, and experience of, basic services.

First, the **number of shocks experienced by a household in the last three years generally appears to be linked to worse service-related outcomes.** For example, we find that exposure to a greater number of shocks is associated with longer journey times to health clinics, greater dissatisfaction with health clinics and a lower likelihood of receiving social protection. The exception is livelihood assistance, but we think this is explained by the fact that it mainly received by households with greater assets. Number of crimes is significant in some of the regressions explaining access and satisfaction, but with inconsistent patterns.

Second, in terms of **social protection and livelihoods assistance coverage**, 38% of households in our sample population received some form of social protection over the past year, while just 16% of households having received any form of livelihoods assistance over the same period. Regression analyses suggest that **social protection programmes generally appear to be fairly well targeted** – with older, female-headed, less educated and more food-insecure households all more likely to have received a transfer – although households experiencing a greater number of shocks in the last three years are less likely to have accessed social protection.

Third, levels of satisfaction with services are generally fairly strong. For example:

- More than 70% of respondents reported being either 'very' or 'fairly' satisfied with their health service on the basis of their most recent visit.
- Just under 90% of respondents felt the water they accessed was clean and safe.
- More than 80% of those receiving a form of livelihoods assistance (e.g. seeds and tools, fertiliser vouchers) felt the assistance had helped improve agricultural production or another livelihood activity.

An exception seems to be social protection. When asked about the effectiveness of the Old-Age Allowance, less than 10% of beneficiaries in the sample felt the transfer helped either 'quite a lot' or 'a lot'. The vast majority of beneficiaries felt the transfer helped 'a bit' (insofar as it allowed them to buy some extra food).

And finally, although there is no consistent set of variables explaining why some respondents are more satisfied with services than others, there is some indication that **people's specific personal experiences with the service influences their overall level of satisfaction heavily**. For example, we find that when respondents are dissatisfied with specific aspects of the health clinic – such as waiting times, availability of quality staff – they are much more likely to be dissatisfied with the service overall. When we look at respondents' satisfaction with education, we find a very similar story. This suggests that the way in which a service is implemented and run determines, at least in part, levels of satisfaction more generally.

6 Perceptions of governance

What do people in our sample think about governance in their area? Using a series of outcome indicators that measure people's trust and confidence in local and central government, we examine people's experiences with, and perceptions of, governance. We focus on respondents' attitudes towards local and central government, and draw on regression analyses to suggest what might be driving negative or positive perceptions. Findings are statistically significant, except if specified otherwise.

In Nepal, local government comprises three types of administrative unit: District Development Committees (DDCs), Village Development Committees (VDCs) and municipalities. The Local Self-Governance Act 1999 clearly defines the authorities and responsibilities of local governments. Central government in Nepal refers to the body that performs centralised planning and budgeting at the central level. Local government refers to the decentralised body that functions under the supervision of central government, taking up the responsibilities of all the work associated with the ministry bodies present at the local level.

6.1 Perceptions of local government

More than half of the respondents (56.7%) responded that they felt that the decisions of those in power in the local government never reflected their own priorities; less than one-third (30.1%) felt that decisions reflected some of their priorities. Only a small minority of respondents felt the local government's decisions either 'completely' or 'to a large extent' reflected their own priorities (see Figure 14).

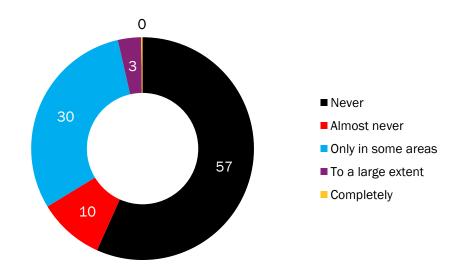
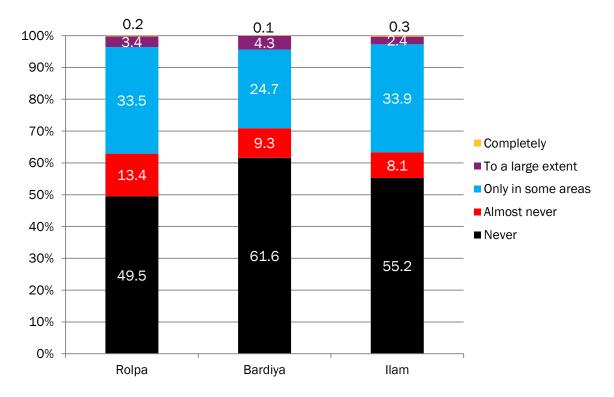


Figure 14: Extent to which respondents felt local government decisions reflected their priorities (% of respondents)

Levels of confidence in government varied only slightly across districts, with a higher proportion of our sample population in Bardiya reporting that local government decisions 'never' reflected their priorities and being generally less positive compared with those in Rolpa and Ilam. However, the proportions of respondents reporting positive perceptions were consistently low, with less than 5% of respondents in each district stating either 'completely' or 'to a large extent' (see Table 36 in Annex 1).

Figure 15: Agreement with the statement, 'To what extent do you feel the decisions of those in power in the local government reflect your own priorities?' by district



Note: The mean for each group is statistically different from the sampled population as a whole at 1%.

When we group the sample in other ways, we also find that respondents generally have negative perceptions of government. For example:

- Around 58% of rural respondents felt local government decisions 'never' reflected their priorities, compared with around 54% of urban respondents (Table 37 in Annex 1; differences were significant at the 1% level).
- 52.6% of male respondents and 60.2% of female respondents reported 'never' (Table 38 in Annex 1; differences are statistically significant at the 1% level).
- Levels of dissatisfaction were highest among the Madhesi (68.1% reporting 'never') and lowest among the Janjati/indigenous groups, although a majority (55.2%) still reported 'never'. Both groups can be considered middle-castes (Table 37 in Annex 1; differences are significant at the 5% level).

Generally speaking, however, our data illustrate fairly low levels of confidence in local government across our sample population as a whole.

Two types of regressions were run for both central and local government. The first type was a logit regression with the outcome, 'Do you agree with the following statement: The local/central government cares about my opinions', with 'no' being the base category. The second regression was a multinomial regression for the question 'To what extent do the decisions of those in power in local/central government reflect your own priorities?'. The base category was 'never reflects my own priorities'. The regression results are shown in Tables 40-41 (for local) and 46-47 (for central) in Annex 1.

Results from both regressions show that the higher the level of education received by a respondent, the more likely they are to hold positive perceptions of local government. This variable proves significant in both analyses, which suggests it is particularly important in influencing perceptions.

Results from the logit regression analysis alone show that respondents from households which experienced conflict in the last three years are less likely to feel that local government cares about their opinions. The same goes for respondents from households which experienced a greater number of crimes over the last three years. One hypothesis here might be that those who have experienced a greater number of crimes do not feel that the ex-post assistance received is timely or adequate – if, indeed, they receive assistance in the first place. Such a situation might be even more pronounced among rural households in more remote areas. However, somewhat counter-intuitively, results from the multinomial regression analysis show that the greater the number of shocks experienced over the last three years, the more likely a respondent is to feel that local government decisions 'largely' or 'completely' reflect their priorities. The story that emerges from the analysis, therefore, is not a straightforward one; rather, the relationship between exposure to shocks and perceptions of local government appears quite complex.

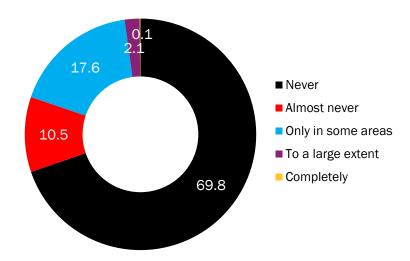
If we look more closely at the relationship between services and perceptions, we see some inconsistent patterns emerging. In particular, there appears to be a confusing and non-linear link between access to and experience of services and perceptions of local government: respondents who were satisfied and those who were dissatisfied with the availability of medicine at their local health clinic were both more likely to report that that the local government's decisions 'largely' or 'completely' reflect their priorities. Those having to pay informal fees at the health clinic were also more likely to feel positively about local government. How might this be explained? It might be, for example, that households having to pay informal fees are just satisfied that they have been able to access a decent health clinic; the existence of informal fees might also indicate flexibility or 'room for manoeuvre' in interactions with local government officials, possibly allowing households to negotiate better access for themselves. Access to and experience of education services is not significant, on the other hand.

That said, we see a stronger pattern emerge when we look at the relationship between people's access to grievance mechanisms and accountability of the government and their perceptions of local government. Respondents living in households that have experienced a greater number of service-related problems are: (1) more likely to feel that the local government does not care about their opinion; and (2) less likely to feel that decisions 'largely' or 'completely' reflect their priorities. This suggests a possible lack of effective accountability or grievance mechanisms in local government service provision, and weak responsiveness from those in power locally. Incidentally, results from the multinomial regression analysis show that the more grievance mechanisms – or complaints procedures – a respondent knows about, the more likely they are to feel that local government decisions 'largely' or 'completely' reflect their priorities. Finally, results from both regressions show that the more a respondent is consulted about services, the more positively they feel about local government. This suggests that the way in which services are being delivered (participatory, accountable, etc.) is as important as what is delivered.

6.2 Perceptions of central government

The story is even less encouraging when we look at respondents' views of central government. When asked, 'To what extent do you feel the decisions of those in power in the central government reflect your own priorities?', almost 70% of the 2,572 respondents for whom we have answers felt the decisions of those in central government 'never' reflected their own priorities (see Figure 16). In addition, just 17.6% of the sample responded 'only in some areas' – around 12 percentage points lower than the proportion of respondents giving the same response in relation to local government.

Figure 16: Extent to which respondents felt central government decisions reflected their priorities (% of respondents)



Again, levels of confidence were consistently low regardless of how the sample is grouped. That said, the variations we observe in relation to responses regarding local government also hold true here. In the descriptive statistics we see, for example, that:

- 76% of respondents in Bardiya reported 'never' compared with 70.3% in Ilam and 53.8% in Rolpa (Table 42 in Annex 1; statistically significant).
- 70.9% of female respondents compared with 68.4% of male respondents reported 'never' (Table 43 in Annex 1; not statistically different).
- Levels of dissatisfaction were highest among the Madhesi, which can be classified as 'middle-caste' (84.2% reporting 'never') and lowest among the 'low-caste' Dalit, although a majority (66.7%) still reported 'never' (Table 44 in Annex 1; statistically significant).

What is striking about the data is that, although respondents' levels of confidence in both local and central government were generally low, perceptions of central government were consistently worse than those of local government, to a statistically significant degree, regardless of how the sample is split. Figure 17 shows perceptions of both among the sample as a whole.

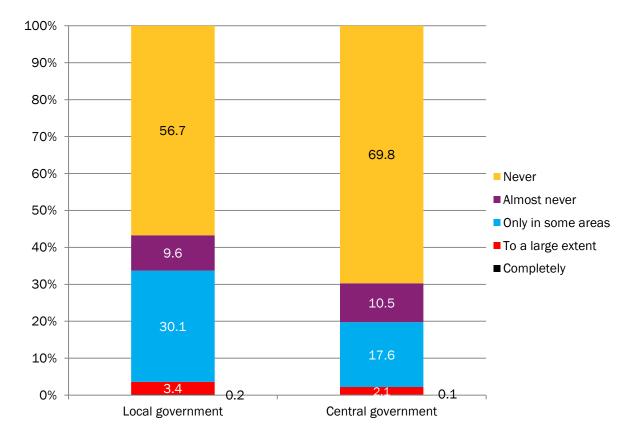


Figure 17: Extent to which respondents felt government decisions reflected their priorities, comparison of local and central government

Note: The mean for each group is statistically different from the sampled population as a whole at 1%.

In order to identify what might be shaping people's perceptions of central government, we ran the same series of regressions as for local government (see Tables 45 and 46 in Annex 1).

One variable stands out (insofar as it is found to be statistically significant in both the logit and multinomial regressions for both local and central government): the greater the number of problems experienced with services, the less likely the respondent is to hold positive perceptions of government. This suggests that respondents do hold the government responsible for problems with service delivery. On a similar theme, results from the multinomial regressions for both local and central government show that respondents are more likely to feel positively about central government if: (1) they know about official procedures to make complaints about services; or (2) they have been previously consulted about services.

Specifically at the central government level, we find that having to pay official fees for the health service is associated with more negative perceptions. While we find no such relationship in the local government regressions, we do find that having to pay informal fees for health is associated with worse perceptions of local government. Regarding the role of respondent satisfaction with services, we again see a mixed picture. For example, the respondent being satisfied or the respondent being dissatisfied with certain indicators of health service quality are both significantly associated with respondents reporting that central government decisions 'largely' or 'completely' reflect their priorities. At the very least, this suggests a complex and non-linear relationship. As for local government, access to and experience of education services is not significant. Further research will explore whether there is a link between satisfaction with services and perceptions of government.

6.3 Summary of findings on governance

There are number of key findings regarding respondents' perceptions of government.

First, the vast majority of respondents have very low levels of trust and confidence in both local and central levels of government (as measured by our two outcome indicators, 'Do you have trust in the government?' and 'Do decisions taken reflect your priorities?'). Perceptions of central government are comparatively worse than those of local government.

Second, few factors appear to consistently influence perceptions of both local and central government. However, we do find that **the higher the number of service-related problems a household experiences**, **the worse a respondent's perceptions of local and central government** are likely to be. This suggests a possible lack of effective accountability or grievance mechanisms in government service provision, and weak responsiveness from those in power locally and centrally. On the same theme, there is also some evidence that respondents are likely to hold more positive perceptions of local and central government if they: (1) are aware of official complaints procedures regarding services; or (2) have recently been consulted about services. On the other hand, access to services – measured either by journey times to facilities or by receipt of a transfer – does not have a clear and statistically significant relationship with perceptions of government. This suggests that the way in which services are being delivered (participatory, accountable, etc.) is as important as what is delivered.

Third, and related to the above finding, there does not appear to be any consistent statistical relationship between perceptions and a variety of factors one might expect to matter. For example, for variables that we thought would each have strong influences on perceptions, such as economic characteristics of households and the extent to which they participate in community meetings, we find no correlation.

7 Conclusion

In 2012/13, SLRC implemented the first round of an original cross-country panel survey in Nepal designed to produce information on:

- people's livelihoods (income-generating activities, asset portfolios, food security, constraining and enabling factors within the broader institutional and geographical context)
- their access to basic services (education, health, water), social protection and livelihood assistance
- their relationships with governance processes and practices (participation in public meetings, experience with grievance mechanisms, perceptions of major political actors).

This paper has reported on the baseline findings emerging from statistical analysis of the Nepali firstround data. We now provide a recap of those findings. For ease and accessibility, we split this concluding section into five: the first subsection provides some basic detail on the sample; the second, third and fourth revisit key findings on livelihoods, services and governance, respectively; and the fifth identifies research priorities to take forwards.

7.1 The survey sample

We collected survey data from a sample of 3,176 households in September to November 2012. Although the sample was drawn from three districts – Rolpa, Bardiya and Ilam (purposively selected in order to capture geographic variation in conflict, physical accessibility and access to services) – our data are not representative at the district level. They are representative, however, at the village level and are statistically significant at the study, district and village level.

In terms of composition, around two-thirds of respondents were from rural areas and just over half were female. The majority of households were Janjati/indigenous groups (47.4%) followed by Brahmins/Chhetri (33.2%), Dalit (7.8%), and Madhesi (6.4%). The main religion in the surveyed districts was Hindu (81.4%), followed by Kirat (7.9%) and Buddhist (5%). These follow the national distribution. The average literacy rate of the sample was 76.6%. This is higher than the national average, which can be attributed to the fact that one-third consisted of llam residents – who generally have higher-than-national-average literacy rates – and because we included the district capitals in the three districts.

7.2 Livelihoods and wellbeing

Our survey generated data on livelihood activities, asset ownership (as a proxy for household wealth) and food insecurity (using the Coping Strategies Index). Three key findings emerge from our analysis of the data.

First, the data show that **agriculture remains the major livelihood activity**, with close to 80% of households participating in agriculture. It is the most important income source for only around 46% of households. Only a negligible share of households had members who held a private sector job, while about 10% of households had at least one member working in the public sector.

Second, we find that **higher levels of household education and the ability of a household to obtain a loan** in an emergency are significantly associated with **lower levels of food insecurity** and with **higher levels of asset ownership**. The significance of the 'access to a loan' variable suggests that when households have access to financial safety nets or response mechanisms such as loans, particularly in tough times, they are more likely to be better off. Of course, the direction of causality might flow the other way: it may be that wealthier, more food-secure households find it easier to access loans, perhaps because they are trusted more by other households or financial organisations. On the other hand, we find that households from **poor and households are more likely to be food insecure and have fewer assets.**

Third, in terms of the links between food insecurity and asset ownership, there are four variables that stand out. We find that female-headed households are likely to be less food insecure but also less wealthy. We also find that households in urban locations in our sample are likely to be wealthier but more food insecure; questions about land might be particularly important here, as those in urban areas may lack the safety net effects of subsistence agriculture when food prices spike. We find that receipt of a social protection transfer is associated with greater wealth but also with higher levels of food insecurity, possibly because social protection protects households against asset depletion, but we cannot draw any conclusions on the direction of causality. And finally, although not sharing a statistically significant relationship with food insecurity, receipt of a livelihoods assistance transfer is also associated with greater household wealth.

7.3 Basic services, social protection and livelihoods assistance

Looking across the range of services covered by the survey – health, education, water, social protection and livelihoods assistance – we can identify four key findings regarding households' access to, and experience of, basic services in our sample.

First, the **number of shocks experienced by a household in the last three years generally appears to be linked to worse service-related outcomes**. For example, we find that exposure to a greater number of shocks is associated with longer journey times to health clinics, greater dissatisfaction with health clinics and a lower likelihood of receiving social protection. The exception is livelihood assistance, but we think this is explained by the fact that it is mainly received by households with greater assets.

Second, in terms of **social protection and livelihoods assistance coverage**, 38% of households in our sample population received some form of social protection over the past year, while 16% of households received some form of livelihoods assistance over the same period. Interestingly, there are more female than male respondents who reported receiving livelihoods assistance. Regression analyses suggest that **social protection programmes generally appear to be fairly well targeted** – with older, female-headed, less educated and more food-insecure households all more likely to have received a transfer – although households experiencing a greater number of shocks in the last three years are less likely to have accessed social protection.

Third, levels of satisfaction with services are generally fairly strong. For example:

- More than 70% of respondents reported being either 'very' or 'fairly' satisfied with their health service on the basis of their most recent visit. 64% of women tend to be fairly satisfied with the health services as opposed to 60% of men.
- Just under 90% of respondents felt the water they accessed was clean and safe.
- More than 80% of those receiving a form of livelihoods assistance (e.g. seeds and tools, fertiliser vouchers) felt the assistance had helped improve agricultural production or another livelihood activity.

An exception seems to be social protection. When asked about the effectiveness of the Old-Age Allowance, less than 10% of beneficiaries in the sample felt the transfer helped either 'quite a lot' or 'a lot'. The vast majority of beneficiaries felt the transfer helped 'a bit' (insofar as it allowed them to buy some extra food).

And finally, although there is no consistent set of variables explaining why some respondents are more satisfied with services than others, there is some indication that **people's specific personal experiences with the service heavily influences their overall level of satisfaction**. For example, we find that when respondents are dissatisfied with specific aspects of the health clinic – such as waiting times, availability of quality staff – they are much more likely to be dissatisfied with the service overall. When we look at respondents' satisfaction with education, we find a very similar story.

7.4 Perceptions of governance

Respondents were asked what they thought about local and central government. Three key findings emerge from the data.

First, the vast majority of respondents have very low levels of trust and confidence in both local and central levels of government. Perceptions of central government are comparatively worse than those of local government. Female respondents have a more negative perception of the local government than male respondents, but the difference is not statistically significant.

Second, few factors appear to consistently influence perceptions of both local and central government. However, we do find that **the higher the number of service-related problems a household experiences**, **the worse a respondent's perceptions of local and central government** are likely to be. This suggests a possible lack of effective accountability or grievance mechanisms in government service provision, and weak responsiveness from those in power locally and centrally. On the same theme, there is also some evidence that respondents are likely to hold more positive perceptions of local and central government if they: (1) are aware of official complaints procedures regarding services; or (2) have recently been consulted about services. On the other hand, access to services – whether measured by journey times to facilities or by receipt of a transfer – does not have a clear or significant relationship with perceptions of government. This suggests that the way in which services are being delivered (participatory, accountable etc.) is as important as what is delivered.

Third, and related to the above finding, there does not appear to be any consistent statistical relationship between perceptions and a variety of factors one might expect to matter. For example, for variables that we thought would each have strong influences on perceptions, such as economic characteristics of households and the extent to which they participate in community meetings, we find no correlation.

7.5 **Priorities for future research**

Research insights gained from this baseline survey are very indicative and will be validated and complemented by qualitative research. The findings of the household survey conducted in the second year of the SLRC will be used as the basis for the qualitative survey in subsequent years. Year 3 will focus on four major components for the qualitative research:

- 1 We saw that people's perceptions of impacts of social protection were generally quite negative, and we will be further exploring the links between receipt of the Old-Age Allowance and people's perceptions of the government in Rolpa district.
- 2 We will also explore the links between access to services (health, education and water) and people's perceptions of the government more generally, again in Rolpa district. We will be following up directly on our inconsistent findings on the links between access to and experience of services and perceptions of governance, as discussed above.
- 3 We will examine the impact and effectiveness of the Local Governance Community Development Project based on its ability to deliver capacity to the local government and community.
- 4 We will examine and assess the overall achievements of the Nepal Peace Trust Fund in providing support to conflict-affected people and those internally displaced by the conflict through a study in Bardiya district.

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Table 1: Distribution of household, by religion

Religion	Frequency	Percent
Muslim	97	3.1
Hindu	2586	81.4
Buddhist	159	5.0
Christian	62	2.0
Kirat	251	7.9
None	8	0.3
Mixed	10	0.3
Others	3	0.1
Total	3176	100.0

Source: Field Survey

Table 2: Literacy status of members of the surveyed households, by gender

Gender (***)	Illiterate	Percent	Literate	Percent	Total
Male	1114	15.7	5979	84.3	7093
Female	2333	30.7	5278	69.4	7611
Total	3447	23.4	11257	76.6	14704

Table 3: Literacy status of the members of the surveyed households, by ethnic group

Ethnicity (***)	Illiterate	Percent	Literate	Percent	Total
Brahmin	701	15.5	3835	84.5	4536
Janjati	1855	26.2	5228	73.8	7083
Dalit	321	28.1	820	71.9	1141
Mixed	48	15.4	264	84.6	312
Madhesi	340	32.9	692	67.1	1032
Muslim	175	30.3	403	69.7	578
Other	7	31.8	15	68.2	22 <mark>1</mark>
Total	3447	23.4	11257	76.6	14704

Source: Field Survey

Table 4: Household size, by ethnicity

Household size
4.6
5.0
5.1
5.2
5.6
6.5
3.8
5.0

Source: Field Survey, 2012

 $^{^{1}}$ In the analysis the 'mixed' and 'others' categories are merged because of small frequency.

Table 5: Household involvement in livelihood activities (full sample)

Livelihood activity	Total HHs engaged in activity (n)	Total HHs engaged in activity (%)
Agriculture	2510	79.1
Social protection transfers	1205	38.0
Casual labour (non-agric.)	1192	37.6
Casual labour (agric.)	787	24.8
Own business	659	20.8
Selling goods	535	16.9
Private sector job (non-agric.)	413	13.0
Public sector job	343	10.8
Migration (remittances)	51	1.6
Private sector job	35	1.1

Table 6: Household involvement in own agriculture, by district

	In	Involvement in own cultivation livestock and fishery					
Region (***)	N	No		es	Total		
	Count	Row %	Count	Row %			
Rolpa	37	5.17	679	94.83	716		
Bardiya	439	36.22	773	63.78	1212		
llam	118	15.09	1058	84.91	1246		
Total	664	20.92	2510	7908	3174		

Table 7: Involvement in own agriculture, by ethnic group

	Involvement in own cultivation livestock and fishery					
Caste/ethnicity (***)	No		Yes		Total	
	Count	Row %	Count	Row %		
Brahmin	229	21.7	824	78.3	1053	
Janjati	241	16.0	1262	84.0	1503	
Dalit	49	19.8	198	80.2	247	
Madhesi	60	29.7	142	70.3	202	
Muslim	70	72.2	27	27.8	97	
Other	15	20.8	57	79.2	72	
Total	664	20.9	2510	79.1	3174	

Source: Field Survey 2012

Table 8: Most important household income source (full sample)

Livelihood activity	Total households for which activity is most important income source (n)	Total households for which activity is most important income source (%)		
Agriculture	1461	46.04		
Casual labour (non-agric.)	427	13.46		
Own business	383	12.07		
Remittances	306	9.64		
Public sector job	249	7.85		
Private sector job (non-agric.)	113	3.56		
Selling goods	95	2.99		
Casual labour (agric.)	88	2.77		
Private sector job	30	0.95		
Social protection transfers	21	0.66		

Table 9: Involvement in own agriculture, by remittance receipt

Involvement in own cultivation, livestock and fishery						
Did your household receive any remittances in the past three years? (***)	No Yes		No		Total	
	Count	Row %	Count	Row %		
No	551	23.1	1837	76.9	2388	
Yes	113	14.4	673	85.6	786	
Total	664	20.9	2510	79.1	3174	

Source: Field Survey 2012

Table 10: OLS regression of food insecurity score

Food Insecurity Score	Coefficient	Standard Error	t-value	P>t
Female Household Head	-0.81	0.35	-2.34	0.02
Average Age in Household	-0.05	0.01	-5.52	0.00
Main Income: Own Cultivation	0.13	0.19	0.66	0.51
Median Education Level	-0.64	0.07	-8.88	0.00
Migrant Household	0.57	0.37	1.54	0.12
Household Receives Remittances	-0.36	0.24	-1.49	0.14
Lived in Village all Respondent's Life	0.10	0.19	0.52	0.60
Ethnic Minority	1.39	0.25	5.66	0.00
Dependency Ratio	0.07	0.15	0.48	0.63
Morris Index	-0.03	0.00	-6.33	0.00
Urban	1.21	0.22	5.59	0.00
Conflict in Last 3 Years	0.05	0.19	0.26	0.80
Safe in Neighbourhood	-0.98	0.31	-3.21	0.00
Access to Credit	-2.62	0.33	-8.01	0.00
District: Rolpa	0.38	0.29	1.29	0.20
District: Bardiya	0.84	0.23	3.65	0.00
Total Shocks	0.04	0.02	1.63	0.10
Total crimes	0.10	0.03	3.26	0.00
Distance to Clinic	0.01	0.00	4.16	0.00
Distance to Water Source	0.00	0.01	0.38	0.70
Receiving Social Protection	0.52	0.20	2.61	0.01
Receiving Livelihood Transfer	-0.32	0.24	-1.30	0.19
Overall Satisfied with Health	0.26	0.12	2.12	0.04
Water Clean and Safe	-1.31	0.29	-4.55	0.00
Constant	9.02	0.75	11.97	0.00
Observations	2812.00			
R-squared	0.19			

Table 11: Food insecurity situation, by ethnicity

Caste/ Ethnicity (***)	-	food curity		food curity		m food curity	0	h food ecurity	Total
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count
Brahmin	698	66.3	211	20.0	87	8.3	57	5.4	1053
Janjati/ indigenous groups	847	56.4	282	18.8	169	11.2	205	13.6	1503
Dalit	95	38.5	53	21.5	50	20.2	49	19.8	247
Madhesi	66	32.7	23	11.4	40	19.8	73	36.1	202
Muslim	39	40.2	16	16.5	14	14.4	28	28.9	97
Other	38	52.8	20	27.8	8	11.1	6	8.3	72
Total	1783	56.2	605	19.1	368	11.6	418	13.2	3174

Source: Field Survey 2012

Table 12: Correlation of Food Security Index with other factors

Item	Correlation with food insecurity index
Morris Index	183**
Mean age of household	117**
Household Size	.088**
Percentage of household members involving in own cultivation, livestock or fishing	-0.022
Percentage of household members involving in casual labour (agriculture/fishery)	.241**
Percentage of household members involving in casual labour (non-agriculture)	.185**
Percentage of household members involving in selling goods (agrl. products, petty trade)	079**
Percentage of household members involving in own business (hair dressing, food processing)	102**
Percentage of household members involving in private sector job in agri/fishery	-0.019
Percentage of household members involving in private sector job in non-agri/fishery	044*
Percentage of household members involving in public sector job	111**
Percentage of household members involving in paid housework and childcare	-0.002
Time to reach to the nearest health clinic (in minutes)	.085**
Time to fetch the drinking water (in minutes)	.063**
Time for boys to reach to the primary school (in minutes)	-0.053
Time for girls to reach to the primary school (in minutes)	-0.008

Table 13: OLS regression analysis of Morris index

Morris Score Index	Coefficient	Standard Error	t-value	P>t
Female Household Head	-4.96	1.40	-3.55	0.00
Average Age in Household	0.13	0.04	3.54	0.00
Main Income: Own Cultivation	2.38	0.77	3.10	0.00
Median Education Level	4.21	0.28	15.11	0.00
Migrant Household	-3.72	1.50	-2.48	0.01
Household Receives Remittances	1.75	0.97	1.81	0.07
Lived in Village all Respondent's Life	-0.92	0.76	-1.21	0.23
Ethnic Minority	-2.28	0.99	-2.29	0.02
Dependency Ratio	-1.47	0.62	-2.39	0.02
Urban	2.63	0.87	3.00	0.00
Conflict in Last 3 Years	-0.69	0.77	-0.89	0.37
Safe in Neighbourhood	1.89	1.23	1.53	0.13
Access to Credit	4.83	1.32	3.67	0.00
District: Rolpa	7.41	1.17	6.33	0.00
District: Bardiya	8.94	0.91	9.80	0.00
Total Shocks	0.07	0.10	0.68	0.50
Total crimes	-0.03	0.13	-0.26	0.79
Distance to Clinic	0.02	0.01	1.78	0.08
Distance to Water Source	0.03	0.04	0.78	0.44
Receiving Social Protection	1.93	0.81	2.39	0.02
Receiving Livelihood Transfer	3.21	0.98	3.26	0.00
Overall Satisfied with Health	-0.67	0.49	-1.36	0.18
Water Clean and Safe	-0.04	1.17	-0.04	0.97
Constant	-6.43	3.04	-2.12	0.03
Observations	2812.00			
R-squared	0.15			

Table 14: Mean distance to nearest health facility, by district.

District (***)	Mean distance to nearest health facility (minutes)
Rolpa	61.54
Bardiya	20.93
llam	46.75

Table 15: OLS regression of distance to health facilities

Distance to health centre	Coefficient	Standard Error	t-value	P>t
Female Household Head	-0.96	2.61	-0.37	0.71
Average Age in Household	0.02	0.07	0.29	0.77
Main Income: Own Cultivation	9.13	1.44	6.32	0.00
Median Education Level	-4.12	0.55	-7.46	0.00
Migrant Household	2.46	2.85	0.86	0.39
Household Receives Remittances	5.41	1.81	2.99	0.00
Lived in Village all Respondent's Life	-3.72	1.42	-2.63	0.01
Ethnic Minority	-5.02	1.87	-2.69	0.01
Dependency Ratio	0.84	1.11	0.76	0.45
Morris Index	0.11	0.04	2.82	0.01
Food Insecurity Index	0.59	0.14	4.15	0.00
Own Man-Powered Vehicle	6.14	1.96	3.14	0.00
Own Petrol-Powered Vehicle	-4.39	2.90	-1.51	0.13
Urban	-2.67	1.80	-1.48	0.14
Conflict in Last 3 Years	-2.96	1.46	-2.03	0.04
Safe in Neighbourhood	-3.32	2.32	-1.43	0.15
District: Rolpa	17.33	2.29	7.57	0.00
District: Bardiya	-26.26	2.04	-12.89	0.00
Total Shocks	0.78	0.17	4.48	0.00
Total crimes	-0.31	0.24	-1.30	0.19
Satisfied with Number of Qualified Personnel	1.40	2.09	0.67	0.51
Dissatisfied with Number of Qualified Personnel	-0.23	3.89	-0.06	0.95
Satisfied with Availability of Medicine	2.25	1.95	1.16	0.25
Dissatisfied with Availability of Medicine	-5.61	3.55	-1.58	0.11
Satisfied with Waiting Time	-7.93	2.05	-3.87	0.00
Dissatisfied with Waiting Time	-0.02	3.65	-0.01	1.00
Official Fees: Health Clinic	11.37	1.98	5.74	0.00
Informal Fees: Health Clinic	3.44	2.84	1.21	0.23
Clinic Run by Government	4.64	1.67	2.78	0.01
Community Meeting Held (Health)	-2.11	2.80	-0.75	0.45
Attended Meeting on Health	7.03	3.44	2.04	0.04
Constant	41.92	5.59	7.50	0.00
Observations	2973			
R-squared	0.24			

Table 16: Multinomial logit regression of satisfaction with health facilities

Satisfaction with health centre	Coefficient	Standard Error	t-value	P>t
Satisfied (base outcome)				
Neutral				
Respondent is Female	-0.07	0.17	-0.41	0.68
Age of respondent	0.00	0.01	0.26	0.79
Main Income: Own Cultivation	0.21	0.14	1.48	0.14
Highest education level of respondent	0.00	0.05	0.05	0.96
Migrant Household	-0.41	0.32	-1.30	0.20
Household Receives Remittances	-0.10	0.18	-0.55	0.59
Lived in Village all Respondent's Life	0.21	0.16	1.29	0.20
Ethnic Minority	0.00	0.19	0.00	1.00
Dependency Ratio	0.04	0.10	0.42	0.67
Morris Index	0.01	0.00	1.53	0.13
Food Insecurity Index	0.04	0.01	3.18	0.00
Urban	-0.45	0.19	-2.43	0.02
Conflict in Last 3 Years	0.32	0.15	2.17	0.03
Safe in Neighbourhood	-0.22	0.23	-0.95	0.34
District: Rolpa	-0.51	0.23	-2.19	0.03
District: Bardiya	-0.22	0.19	-1.14	0.26
Total Shocks	0.05	0.02	2.94	0.00
Total crimes	-0.01	0.02	-0.34	0.73
Distance to Clinic	0.00	0.00	1.25	0.21
Satisfied with Number of Qualified Personnel	-2.58	0.15	-16.71	0.00
Dissatisfied with Number of Qualified Personnel	-0.11	0.39	-0.27	0.79
Satisfied with Availability of Medicine	-2.22	0.15	-14.80	0.00
Dissatisfied with Availability of Medicine	-0.06	0.31	-0.18	0.86
Satisfied with Waiting Time	-1.41	0.18	-8.01	0.00
Dissatisfied with Waiting Time	0.25	0.32	0.79	0.43
Official Fees: Health Clinic	0.33	0.21	1.59	0.11
Informal Fees: Health Clinic	0.28	0.28	1.00	0.31
Clinic Run by Government	0.45	0.17	2.57	0.01
Community Meeting Held (Health)	0.30	0.26	1.15	0.01
Attended Meeting on Health	-0.17	0.33	-0.52	0.20
	0.11	0.00	0.02	0.00
Dissatisfied				
Respondent is Female	-0.28	0.30	-0.95	0.34
Age of respondent	-0.01	0.01	-0.71	0.48
Main Income: Own Cultivation	0.34	0.26	1.28	0.20
Highest education level of respondent	-0.04	0.09	-0.40	0.69
Migrant Household	0.56	0.50	1.13	0.26
Household Receives Remittances	-0.06	0.33	-0.19	0.85
Lived in Village all Respondent's Life	-0.05	0.29	-0.18	0.85
Ethnic Minority	-0.17	0.36	-0.47	0.64
Dependency Ratio	-0.17	0.21	-1.75	0.04
Morris Index	0.00	0.01	-0.30	0.08
Food Insecurity Index	0.00	0.01	-0.30	0.17
Urban	-0.54	0.32	-1.70	0.12
Conflict in Last 3 Years	0.20	0.32	0.75	0.09

Safe in Neighbourhood	-0.74	0.39	-1.88	0.06
District: Rolpa	-1.24	0.47	-2.67	0.01
District: Bardiya	-1.04	0.36	-2.93	0.00
Total Shocks	0.08	0.02	3.34	0.00
Total crimes	0.01	0.04	0.22	0.83
Distance to Clinic	0.00	0.00	-0.41	0.68
Satisfied with Number of Qualified Personnel	-2.28	0.31	-7.33	0.00
Dissatisfied with Number of Qualified Personnel	2.31	0.44	5.29	0.00
Satisfied with Availability of Medicine	-2.03	0.33	-6.16	0.00
Dissatisfied with Availability of Medicine	1.91	0.37	5.17	0.00
Satisfied with Waiting Time	-1.21	0.32	-3.72	0.00
Dissatisfied with Waiting Time	1.30	0.45	2.89	0.00
Official Fees: Health Clinic	1.41	0.45	3.12	0.00
Informal Fees: Health Clinic	0.87	0.52	1.68	0.09
Clinic Run by Government	1.37	0.36	3.77	0.00
Community Meeting Held (Health)	0.98	0.43	2.31	0.02
Attended Meeting on Health	-0.53	0.54	-0.98	0.33
Constant	-0.70	1.07	-0.65	0.51
Observations	2973.00			
Pseudo R-squared	0.53			

Table 17: OLS regression of distance to boys' school

Distance to boys' school	Coefficient	Standard Error	t-value	P>t
Female Household Head	1.24	2.56	0.48	0.63
Average Age in Household	-0.19	0.11	-1.73	0.08
Main Income: Own Cultivation	4.45	1.48	3.02	0.00
Median Education Level	-1.91	0.64	-2.98	0.00
Migrant Household	2.90	2.88	1.01	0.31
Household Receives Remittances	4.36	1.90	2.29	0.02
Lived in Village all Respondent's Life	1.38	1.46	0.94	0.35
Ethnic Minority	-3.89	1.76	-2.21	0.03
Dependency Ratio	-0.13	1.07	-0.12	0.91
Morris Index	0.07	0.04	1.84	0.07
Food Insecurity Index	-0.02	0.13	-0.18	0.86
Own Man-Powered Vehicle	-1.90	1.99	-0.96	0.34
Own Petrol-Powered Vehicle	-4.99	3.33	-1.50	0.14
Urban	5.34	1.82	2.94	0.00
Conflict in Last 3 Years	-2.38	1.48	-1.62	0.11
Safe in Neighbourhood	0.92	2.35	0.39	0.70
District: Rolpa	4.08	2.24	1.82	0.07
District: Bardiya	-10.90	2.12	-5.13	0.00
Total Shocks	0.20	0.18	1.10	0.27
Total crimes	-0.06	0.27	-0.24	0.81
Satisfied with Number of Teachers (Boys)	2.66	2.57	1.04	0.30
Dissatisfied with Number of Teachers (Boys)	-5.82	7.82	-0.74	0.46
Satisfied with Quality of Teaching(Boys)	1.56	2.23	0.70	0.48
Dissatisfied with Quality of Teaching(Boys)	4.72	7.68	0.61	0.54
Satisfied with Teacher Attendance (Boys)	-1.39	2.71	-0.51	0.61
Dissatisfied with Teacher Attendance (Boys)	11.77	6.60	1.78	0.08
Satisfied with Class Size(Boys)	-2.85	2.53	-1.12	0.26
Dissatisfied with Class Size(Boys)	-5.21	7.98	-0.65	0.51
Satisfied with Quality of Infrastructure(Boys)	1.86	2.28	0.82	0.41
Dissatisfied with Quality of Infrastructure(Boys)	-2.97	4.14	-0.72	0.47
Satisfied with Quality of Equipment (Boys)	-0.46	2.55	-0.18	0.86
Dissatisfied with Quality of Equipment (Boys)	-0.11	5.87	-0.02	0.99
Official Fees: Boys' School	0.56	2.00	0.28	0.78
Informal Fees: Boys' School	1.22	1.53	0.80	0.43
Boys' School Run by Government	-5.66	2.22	-2.54	0.01
Community Meeting Held (Education)	-2.82	2.62	-1.07	0.28
Attended Meeting on Education	0.84	2.84	0.29	0.77
Constant	34.04	6.49	5.24	0.00
Observations	1129.00			
R-squared	0.16			

Table 18: OLS regression of distance to girls' school

Distance to girls' school	Coefficient	Standard Error	t-value	P>t
Female Household Head	5.26	2.61	2.01	0.04
Average Age in Household	0.07	0.11	0.64	0.52
Main Income: Own Cultivation	4.78	1.40	3.41	0.00
Median Education Level	-0.92	0.61	-1.49	0.00
Migrant Household	3.93	2.82	1.39	0.14
Household Receives Remittances	0.84	1.74	0.48	0.18
Lived in Village all Respondent's Life	-1.12	1.38	-0.81	0.03
———————————	-2.38	1.71	-0.81 -1.39	0.42
Ethnic Minority Dependency Ratio	0.00	1.02	0.00	1.00
Morris Index	0.00		0.57	
	0.02	0.03	1.25	0.57
Food Insecurity Index Own Man-Powered Vehicle	-2.32	1.88	-1.23	0.21
	-	-		
Own Petrol-Powered Vehicle	-3.66	3.02	-1.21	0.23
Urban Conflict in Last 3 Years	4.56	1.74	2.62	0.01
	-0.48	1.42	-0.34	0.73
Safe in Neighbourhood	1.09	2.20	0.49	0.62
District: Rolpa	1.13	2.12	0.53	0.59
District: Bardiya	-9.17	1.99	-4.61	0.00
Total Shocks	0.21	0.16	1.32	0.19
Total crimes	-0.23	0.33	-0.69	0.49
Satisfied with Number of Teachers (Girls)	1.66	2.33	0.71	0.48
Dissatisfied with Number of Teachers (Girls)	2.23	5.43	0.41	0.68
Satisfied with Quality of Teaching(Girls)	1.10	2.05	0.54	0.59
Dissatisfied with Quality of Teaching(Girls)	-6.74	5.51	-1.22	0.22
Satisfied with Teacher Attendance (Girls)	-0.02	2.44	-0.01	0.99
Dissatisfied with Teacher Attendance (Girls)	-5.38	6.40	-0.84	0.40
Satisfied with Class Size(Girls)	-0.60	2.23	-0.27	0.79
Dissatisfied with Class Size(Girls)	-5.67	5.36	-1.06	0.29
Satisfied with Quality of Infrastructure(Girls)	4.31	2.26	1.91	0.06
Dissatisfied with Quality of Infrastructure(Girls)	4.61	4.07	1.13	0.26
Satisfied with Quality of Equipment (Girls)	-1.58	2.29	-0.69	0.49
Dissatisfied with Quality of Equipment (Girls)	0.51	4.60	0.11	0.91
Official Fees: Girls' School	1.65	1.85	0.89	0.37
Informal Fees: Girls' School	3.65	1.47	2.48	0.01
Girls' School run by Government	0.84	2.17	0.39	0.70
Community Meeting Held (Education)	-1.52	2.54	-0.60	0.55
Attended Meeting on Education	0.57	2.75	0.21	0.84
Constant	16.38	6.30	2.60	0.01
Observations	1011.00			
R-squared	0.14			

Table 19: Logit regression of satisfaction with boys' school

Satisfied with boys' school	Coefficient	Standard Error	t-value	P>t
Respondent is Female	0.14	0.33	0.42	0.67
Age of respondent	0.02	0.01	1.74	0.08
Main Income: Own Cultivation	0.16	0.29	0.54	0.59
Highest education level of respondent	0.20	0.12	1.66	0.10
Migrant Household	-0.84	0.55	-1.52	0.13
Household Receives Remittances	0.85	0.35	2.44	0.02
Lived in Village all Respondent's Life	0.38	0.32	1.18	0.24
Ethnic Minority	0.09	0.36	0.25	0.80
Dependency Ratio	-0.16	0.21	-0.78	0.43
Morris Index	0.00	0.01	0.22	0.83
Food Insecurity Index	0.05	0.02	2.28	0.02
Urban	-0.78	0.39	-2.02	0.04
Conflict in Last 3 Years	0.35	0.29	1.20	0.23
Safe in Neighbourhood	-0.11	0.40	-0.27	0.79
District: Rolpa	-0.87	0.43	-2.01	0.04
District: Bardiya	0.21	0.38	0.56	0.57
Total Shocks	0.03	0.03	0.88	0.38
Total crimes	0.06	0.04	1.76	0.08
How far is it to the primary school you use? (in				
minutes)	0.00	0.01	0.43	0.67
Satisfied with Number of Teachers (Boys)	-1.59	0.35	-4.57	0.00
Dissatisfied with Number of Teachers (Boys)	-1.77	1.31	-1.36	0.18
Satisfied with Quality of Teaching(Boys)	-1.41	0.31	-4.58	0.00
Satisfied with Teacher Attendance (Boys)	-2.01	0.34	-5.93	0.00
Dissatisfied with Teacher Attendance (Boys)	-0.30	0.90	-0.33	0.74
Satisfied with Class Size(Boys)	-1.22	0.34	-3.54	0.00
Dissatisfied with Class Size(Boys)	1.23	1.21	1.02	0.31
Satisfied with Quality of Infrastructure(Boys)	-1.40	0.33	-4.23	0.00
Dissatisfied with Quality of Infrastructure(Boys)	1.33	0.53	2.51	0.01
Satisfied with Quality of Equipment (Boys)	-1.30	0.34	-3.80	0.00
Dissatisfied with Quality of Equipment (Boys)	-1.50	0.88	-1.72	0.09
Official Fees: Boys' School	-0.33	0.38	-0.86	0.39
Informal Fees: Boys' School	0.23	0.31	0.75	0.45
Boys' School Run by Government	0.09	0.43	0.20	0.84
Community Meeting Held (Education)	0.51	0.47	1.08	0.28
Attended Meeting on Education	-0.61	0.54	-1.12	0.26
Constant	2.96	1.20	2.46	0.01
Observations	1112.00			
Pseudo R-squared	0.53			

Table 20: Logit regression of satisfaction with girls' school

Satisfied with girls' school	Coefficient	Standard Error	t-value	P>t
Respondent is Female	-0.14	0.36	-0.39	0.69
Age of respondent	-0.01	0.01	-0.91	0.36
Main Income: Own Cultivation	-0.39	0.31	-1.24	0.22
Highest education level of respondent	0.20	0.12	1.59	0.11
Migrant Household	-2.03	0.81	-2.51	0.01
Household Receives Remittances	0.16	0.33	0.47	0.64
Lived in Village all Respondent's Life	-0.39	0.35	-1.12	0.26
Ethnic Minority	0.20	0.37	0.53	0.59
Dependency Ratio	0.25	0.19	1.32	0.19
Morris Index	0.00	0.01	0.24	0.81
Food Insecurity Index	0.05	0.03	2.08	0.04
Urban	-1.28	0.45	-2.81	0.01
Conflict in Last 3 Years	0.53	0.31	1.71	0.09
Safe in Neighbourhood	-0.52	0.43	-1.21	0.23
District: Rolpa	0.58	0.43	1.35	0.18
District: Bardiya	1.48	0.43	3.43	0.00
Total Shocks	0.03	0.03	1.13	0.26
Total crimes	0.00	0.05	0.09	0.93
How far is it to the primary school you use? (in minutes)	0.00	0.01	-0.11	0.91
Satisfied with Number of Teachers (Girls)	-1.80	0.36	-4.95	0.00
Dissatisfied with Number of Teachers (Girls)	-1.01	0.87	-1.17	0.24
Satisfied with Quality of Teaching(Girls)	-2.09	0.33	-6.37	0.00
Dissatisfied with Quality of Teaching(Girls)	-0.62	0.73	-0.85	0.40
Satisfied with Teacher Attendance (Girls)	-1.61	0.36	-4.52	0.00
Dissatisfied with Teacher Attendance (Girls)	-0.82	0.94	-0.87	0.39
Satisfied with Class Size(Girls)	-0.96	0.34	-2.84	0.00
Dissatisfied with Class Size(Girls)	0.30	0.74	0.41	0.68
Satisfied with Quality of Infrastructure(Girls)	-1.56	0.35	-4.41	0.00
Dissatisfied with Quality of Infrastructure(Girls)	1.35	0.56	2.41	0.02
Satisfied with Quality of Equipment (Girls)	-1.53	0.34	-4.46	0.00
Dissatisfied with Quality of Equipment (Girls)	-0.50	0.67	-0.75	0.46
Official Fees: Girls' School	-0.65	0.39	-1.69	0.09
Informal Fees: Girls' School	-0.03	0.31	-0.08	0.94
Girls' School run by Government	-0.61	0.47	-1.31	0.19
Community Meeting Held (Education)	-0.66	0.61	-1.08	0.28
Attended Meeting on Education	0.66	0.65	1.01	0.31
Constant	5.36	1.28	4.18	0.00
Observations	1011.00			
Observations	1011.00			
Pseudo R-squared	0.57			

Table 21: OLS regression of distance to water source

Distance to water source	Coefficient	Standard Error	t-value	P>t
Female Household Head	0.24	0.66	0.37	0.71
Average Age in Household	-0.02	0.02	-0.87	0.38
Main Income: Own Cultivation	0.25	0.37	0.68	0.50
Median Education Level	-0.17	0.14	-1.23	0.22
Migrant Household	0.30	0.72	0.41	0.68
Household Receives Remittances	0.43	0.46	0.95	0.34
Lived in Village all Respondent's Life	-0.54	0.36	-1.50	0.13
Ethnic Minority	0.48	0.47	1.02	0.31
Dependency Ratio	0.44	0.28	1.58	0.12
Morris Index	0.00	0.01	0.32	0.75
Food Insecurity Index	0.05	0.04	1.29	0.20
Own Man-Powered Vehicle	0.59	0.49	1.22	0.22
Own Petrol-Powered Vehicle	-0.06	0.73	-0.08	0.94
Urban	-0.24	0.44	-0.56	0.58
Conflict in Last 3 Years	0.53	0.37	1.44	0.15
Safe in Neighbourhood	0.04	0.59	0.07	0.95
District: Rolpa	12.13	0.58	21.08	0.00
District: Bardiya	-2.57	0.51	-5.00	0.00
Total Shocks	0.05	0.04	1.16	0.25
Total crimes	0.07	0.06	1.12	0.26
Queue for Drinking Water	2.66	0.38	6.95	0.00
Fees for Drinking Water	-0.54	0.52	-1.04	0.30
Water Provided by Government	-6.21	0.84	-7.41	0.00
Water Provided by Private Owner	-6.42	0.77	-8.39	0.00
Water Provided by NGO	-8.98	1.12	-8.04	0.00
Community Meeting Held (Water)	2.67	0.77	3.48	0.00
Attended Meeting on Water	-1.72	0.87	-1.98	0.05
Constant	8.47	1.31	6.45	0.00
Observations	2982.00			
R-squared	0.33			
· · · · · · · · · · · · · · · · · · ·				

Table 22: Perception of water quality, by district

	Is your drinking water clean and safe?								
	No		Yes		Total				
District (***)	Count	Row %	Count	Row %	Count				
Rolpa	75	11.2	597	88.8	672				
Bardiya	156	13.2	1023	86.8	1179				
llam	95	7.7	1138	92.3	1233				
Total	326	10.6	2758	89.4	3084				

Table 23: Perception of water quality, by agency providing water

		Is your drinking water clean and safe?						
	No		Yes		Total			
Provider (***)	Count	Row %	Count	Row %	Count			
Government	61	7.7	734	92.3	795			
Private / personal	220	11.8	1638	88.2	1858			
NGO	7	5.0	132	95.0	139			
Other	31	11.8	232	88.2	263			
Total	319	10.4	2736	89.6	3055			

Table 24: Perception of water quality, by food insecurity status

	Is your drinking water clean and safe?					
	No		Y	Total		
Food insecurity group (* * *)	Count	Row %	Count	Row %	Count	
No food insecurity	147	8.48	1587	91.52	1734	
Low food insecurity	63	10.64	529	89.36	592	
Medium food insecurity	37	10.36	320	89.64	357	
High food insecurity	79	19.7	322	80.3	322	
Total	326	10.57	2758	89.43	3084	

Table 25: Logit regression of access to clean and safe water

Clean and safe water	Coefficient	Standard Error	t-value	P>t
Respondent is Female	0.22	0.15	1.45	0.15
Age of respondent	0.01	0.01	2.25	0.03
Main Income: Own Cultivation	-0.17	0.13	-1.33	0.18
Highest education level of respondent	0.01	0.05	0.11	0.91
Migrant Household	-0.17	0.23	-0.71	0.48
Household Receives Remittances	-0.22	0.16	-1.36	0.17
Lived in Village all Respondent's Life	0.38	0.15	2.55	0.01
Ethnic Minority	0.27	0.17	1.59	0.11
Dependency Ratio	-0.16	0.09	-1.84	0.07
Morris Index	0.00	0.00	-0.91	0.36
Food Insecurity Index	-0.05	0.01	-4.96	0.00
Urban	-0.60	0.16	-3.75	0.00
Conflict in Last 3 Years	0.11	0.13	0.80	0.42
Safe in Neighbourhood	0.24	0.19	1.26	0.21
District: Rolpa	-0.70	0.22	-3.22	0.00
District: Bardiya	-0.56	0.16	-3.40	0.00
Total Shocks	-0.02	0.01	-1.61	0.11
Total crimes	-0.01	0.02	-0.52	0.60
Queue for Drinking Water	-0.26	0.13	-2.03	0.04
Fees for Drinking Water	-0.58	0.19	-3.05	0.00
Water Provided by Government	0.85	0.31	2.77	0.01
Water Provided by Private Owner	-0.09	0.27	-0.33	0.74
Water Provided by NGO	1.15	0.50	2.33	0.02
Community Meeting Held (Water)	-0.15	0.28	-0.55	0.58

Attended Meeting on Water	0.28	0.32	0.87	0.38
Constant	2.32	0.49	4.77	0.00
Observations	2901.00			
Pseudo R-squared	0.06			

Table 26: Social protection access, by district

	Receiving at least one social protection								
District (***)	No		Yes		Total				
	Count	Row %	Count	Row %	Count				
Rolpa	396	55.3	320	44.7	716				
Bardiya	708	58.4	504	41.6	1212				
llam	865	69.4	381	30.6	1246				
Total	1969	62.0	1205	38.0	3174				

Source: Field Survey 2012

Table 27: Social protection access, by household size

	Receiving at least one social protection transfer							
Household size	N)		Yes				
()	Count	Row %	Count	Row %	Count			
1 to 3	571	75.1	189	24.9	760			
4 to 6	1124	62.4	678	37.6	1802			
6 or above	274	44.8	338	55.2	612			
Total	1969	62.0	1205	38.0	3174			

Source: Field Survey 2012

Table 28: Social protection access, by ethnicity

		Receiving at leas	st one social p	rotection	
Caste/ethnicity	No		Yes		Total
	Count	Row %	Count	Row %	Count
Brahmin	737	70.0	316	30.0	1053
Janjati	962	64.0	541	36.0	1503
Dalit	81	32.8	166	67.2	247
Madhesi	87	43.1	115	56.9	202
Muslim	54	55.7	43	44.3	97
Other	48	66.7	24	33.3	72
Total	1969	62.0	1205	38.0	3174

Table 29: Logit regression of receipt of social protection transfer

Receives social protection transfer	Coefficient	Standard Error	t-value	P>t
Female Household Head	0.97	0.15	6.59	0.00
Average Age in Household	0.01	0.01	2.58	0.01
Main Income: Own Cultivation	0.23	0.09	2.68	0.01
Median Education Level	-0.22	0.04	-6.12	0.00
Migrant Household	0.50	0.17	2.87	0.00
Household Receives Remittances	-0.38	0.11	-3.38	0.00
Lived in Village all Respondent's Life	0.03	0.09	0.31	0.76
Ethnic Minority	0.73	0.11	6.66	0.00
Number of Children	0.46	0.05	9.69	0.00
Number of Elderly	0.64	0.08	8.48	0.00
Morris Index	0.00	0.00	0.60	0.55
Food Insecurity Index	0.02	0.01	1.92	0.06
Urban	0.10	0.10	0.97	0.33
Conflict in Last 3 Years	0.12	0.09	1.39	0.16
Safe in Neighbourhood	0.07	0.14	0.47	0.64
District: Rolpa	0.25	0.12	2.01	0.04
District: Bardiya	0.16	0.10	1.53	0.13
Total Shocks	-0.02	0.01	-1.85	0.06
Total crimes	0.00	0.02	-0.30	0.77
Community Meeting Held (Social Protection)	0.16	0.25	0.65	0.52
Attended Meeting on Social Protection	0.23	0.32	0.72	0.47
Constant	-2.03	0.31	-6.48	0.00
Observations	3051.00			
Pseudo R-squared	0.15			

Table 30: Perception of Old Age Allowance, by district

District (not significant) The transfer is too small to make a difference to my		fer is too nake a	The transfer helps me a bit: I can buy some		g applies to you / you The transfer helps me quite a lot: we are rarely of food anymore and I can buy some other household		ur household? The transfer helps me a lot: we are never short of food anymore and I can also pay for school fees or invest in a		Total
	life Count	Row %	extra foo Count	od Row %	items Count	Row %	small Count	Row %	Count
Rolpa	35	39.8	45	51.1	7	8	1	1.1	88
Bardiya	51	41.8	62	50.8	9	7.4	0	0	122
llam	63	34.1	112	60.5	9	4.9	1	0.5	185
Total	149	37.7	219	55.4	25	6.3	2	0.5	395

Table 31: Multinomial logit regression of impact of Old Age Allowance

Impact of old age transfer	Coefficient	Standard Error	t-value	P>t
The transfer is too small to make a difference to my life (base outcome)				
The transfer helps me a bit: I can buy some extra food				
Respondent is Female	0.87	0.24	-0.49	0.63
Age of respondent	1.01	0.01	0.88	0.38
Main Income: Own Cultivation	1.11	0.30	0.39	0.69
Highest education level of respondent	1.10	0.12	0.81	0.42
Migrant Household	0.33	0.18	-2.08	0.04
Household Receives Remittances	0.93	0.27	-0.23	0.82
Lived in Village all Respondent's Life	0.73	0.20	-1.12	0.26
Ethnic Minority	1.31	0.47	0.75	0.45
Children_sum	1.00	0.10	0.02	0.98
Elder_sum	0.98	0.24	-0.08	0.94
Morris Index	1.01	0.01	1.14	0.26
Food Insecurity Index	0.98	0.03	-0.72	0.47
Urban	1.01	0.30	0.05	0.96
Conflict in Last 3 Years	0.90	0.24	-0.41	0.69
Safe in Neighbourhood	2.85	1.27	2.36	0.02
District: Rolpa	1.37	0.54	0.79	0.43
District: Bardiya	0.50	0.16	-2.19	0.03
Total Shocks	0.91	0.04	-2.18	0.03
Total crimes	1.42	0.23	2.19	0.03
Transfer Not Always Right Amount	0.56	0.30	-1.10	0.27
Transfer Sometimes on Time	1.16	0.45	0.38	0.71
Transfer Never on Time	0.02	0.02	-3.54	0.00
Community Meeting Held (Social Protection)	0.60	0.40	-0.77	0.44
Attended Meeting on Social Protection	1.51	1.31	0.47	0.64
Constant	0.61	0.60	-0.51	0.61
The transfer helps me quite a lot: we are rarely short of food anymore and I can buy some other household items				
Respondent is Female	0.73	0.40	-0.57	0.57
Age of respondent	1.00	0.02	-0.09	0.93
Main Income: Own Cultivation	0.54	0.27	-1.22	0.22
Highest education level of respondent	1.25	0.26	1.07	0.28
Migrant Household	1.19	1.09	0.19	0.85
Household Receives Remittances	0.54	0.34	-0.99	0.32
Lived in Village all Respondent's Life	0.64	0.35	-0.82	0.41
Ethnic Minority	1.27	0.80	0.38	0.70
Children_sum	0.83	0.18	-0.85	0.39
Elder_sum	1.78	0.78	1.31	0.19
Morris Index	0.98	0.02	-0.98	0.33

Food Insecurity Index	1.04	0.05	0.90	0.37
Urban	0.83	0.51	-0.30	0.77
Conflict in Last 3 Years	0.74	0.37	-0.60	0.55
Safe in Neighbourhood	8.34	10.51	1.68	0.09
District: Rolpa	3.12	2.08	1.70	0.09
District: Bardiya	0.66	0.41	-0.67	0.50
Total Shocks	0.85	0.09	-1.50	0.13
Total crimes	1.65	0.29	2.85	0.00
Transfer Not Always Right Amount	3.69	3.04	1.59	0.11
Transfer Sometimes on Time	0.63	0.48	-0.61	0.54
Transfer Never on Time	0.25	0.32	-1.07	0.28
Community Meeting Held (Social Protection)	0.00	0.00	-0.02	0.99
Attended Meeting on Social Protection	0.91	1016.67	0.00	1.00
Constant	0.03	0.07	-1.60	0.11
Observations	376.00			
Pseudo R-squared	0.16			

Table 32: Receipt of livelihoods transfer, by district (%)

District (***)	% households receiving any livelihoods transfer
Rolpa	27.48
Bardiya	11.71
llam	14.45
Total	16.34

Table 33: Receipt of livelihoods transfer, by ethnic group (%)

Ethnicity of household	% households receiving any livelihoods transfer
Brahmin	17.65
Janjati / indigenous	15.63
Dalit	22.67
Madhesi	6.44
Muslim	9.28
Other	16.67
Total	16.34

Table 34: Logit regression of receipt of livelihoods transfer

Receives any livelihood transfer	Coefficient	Standard Error	t-value	P>t
Female Household Head	0.04	0.19	0.20	0.84
Average Age in Household	-0.02	0.01	-3.04	0.00
Main Income: Own Cultivation	0.17	0.11	1.55	0.12
Median Education Level	0.07	0.04	1.60	0.11
Migrant Household	-0.04	0.21	-0.17	0.87
Household Receives Remittances	0.25	0.13	1.92	0.05
Lived in Village all Respondent's Life	-0.06	0.11	-0.57	0.57
Ethnic Minority	0.03	0.14	0.21	0.83
Dependency Ratio	-0.14	0.09	-1.59	0.11
Household owns land	0.33	0.32	1.02	0.31
Morris Index	0.01	0.00	3.16	0.00
Food Insecurity Index	0.00	0.01	-0.34	0.74
Urban	-0.08	0.13	-0.57	0.57
Conflict in Last 3 Years	0.03	0.11	0.23	0.82
Safe in Neighbourhood	-0.09	0.17	-0.53	0.60
District: Rolpa	0.70	0.14	4.89	0.00
District: Bardiya	-0.41	0.14	-3.00	0.00
Total Shocks	-0.02	0.01	-1.27	0.20
Total crimes	0.03	0.01	1.78	0.08
Community Meeting Held (Livelihood Services)	0.25	0.31	0.81	0.42
Attended Meeting on Livelihood	1.41	0.33	4.28	0.00
Constant	-1.91	0.45	-4.23	0.00
Observations	3005.00			
Pseudo R-squared	0.09			

Table 35: Logit regression of whether livelihood transfer improved production

Livelihood transfer improved production	Coefficient	Standard Error	t-value	P>t
Respondent is Female	0.23	0.67	0.35	0.73
Age of respondent	0.00	0.03	0.16	0.87
Main Income: Own Cultivation	0.96	0.58	1.67	0.10
Highest education level of respondent	-0.40	0.21	-1.90	0.06
Migrant Household	0.93	1.07	0.87	0.39
Household Receives Remittances	0.36	0.68	0.53	0.60
Lived in Village all Respondent's Life	0.28	0.62	0.45	0.65
Ethnic Minority	-0.47	0.66	-0.71	0.48
Dependency Ratio	-0.28	0.41	-0.68	0.50
Household owns land	3.50	2.33	1.50	0.13
Morris Index	0.05	0.03	1.88	0.06
Food Insecurity Index	-0.12	0.07	-1.79	0.07
Urban	1.21	0.89	1.35	0.18
Conflict in Last 3 Years	0.20	0.57	0.35	0.73
Safe in Neighbourhood	1.36	0.81	1.68	0.09
District: Rolpa	0.44	0.74	0.60	0.55
District: Bardiya	0.68	1.07	0.64	0.52
Total Shocks	-0.08	0.08	-0.99	0.32
Total crimes	-0.03	0.06	-0.50	0.62
K4 seeds Did you receive the service / transfer on time?	2.01	0.70	2.86	0.00
Provided by Government	-0.48	0.61	-0.79	0.43
Provided by International NGO	0.55	1.22	0.45	0.65
Community Meeting Held (Livelihood Services)	-0.92	1.30	-0.71	0.48
Attended Meeting on Livelihood	-0.01	1.35	-0.01	0.99
Constant	-4.63	3.53	-1.31	0.19
Observations	195.00			
Pseudo R-squared	0.29			

Table 36: Perception of local government, by district

District (***)	To what	extent d	o you fe	el that th		ns of thos own prior	-	r at the lo	cal gove	rnment re	flect your
	Never	Never		Almost never		Only in some areas		To a large extent		Completely	
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count
Rolpa	259	49.5	70	13.4	175	33.5	18	3.4	1	0.2	523
Bardiya	693	61.6	105	9.3	278	24.7	48	4.3	1	0.1	1125
llam	633	55.2	93	8.1	389	33.9	28	2.4	4	0.4	1147
Total	1585	56.7	268	9.6	842	30.1	94	3.4	6	0.2	2795

Table 37: Perception of local government, by urban area

Context	To w	hat exte	nt do yo	u feel tha		isions of th our own pri	-	ower at th	e local g	government	reflect
(***)	N	ever	Almos	st never	Only in s	ome areas	To a la	ge extent	Com	pletely	Total
	Count	Row %	Count	Row %	Count	Row %	Count	Row%	Count	Row %	Count
Urban	525	54.2	76	7.9	322	33.3	43	4.4	2	0.2	968
Rural	1060	58	192	10.5	520	28.5	51	2.8	4	0.2	1827
Total	1585	56.7	268	9.6	842	30.1	94	3.4	6	0.2	2795

Table 38: Perception of local government, by respondent gender

Gender	To what extent do you feel that the decisions of those in power at the local government reflect own priorities								ect your		
(***)	Never	Never Almost never Only in some areas To a large extent Completely						Total			
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count
Male	675	52.6	124	9.7	433	33.8	47	3.7	4	0.3	1283
Female	910	60.2	144	9.5	409	27.1	47	3.1	2	0.1	1512
Total	1585	56.7	268	9.6	842	30.1	94	3.4	6	0.2	2795

Table 39: Perception of local government, by ethnic group

0	To what	at extent	do you f	eel that the		ons of tho own prio	•	ver at the	local go	vernment	reflect
Caste/ ethnicity (**)	Never		Almost never		Only in some areas		To a large extent		Completely		Total
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count
Brahmin	534	55.5	78	8.1	317	33	29	3	4	0.4	962
Janjati	710	55.2	145	11.3	383	29.8	48	3.7	1	0.1	1287
Dalit	112	55.7	12	6	68	33.8	8	4	1	0.5	201
Madhesi	130	68.1	16	8.4	42	22	3	1.6	0	0	191
Muslim	60	65.2	11	12	16	17.4	5	5.4	0	0	92
Other	39	62.9	6	9.7	16	25.8	1	1.6	0	0	62
Total	1585	56.7	268	9.6	842	30.1	94	3.4	6	0.2	2795

Table 40: Logit regression of perception that local government cares about opinions

Local government cares about opinions	Coefficient	Standard Error	t-value	P>t
Respondent is Female	-0.12	0.11	-1.08	0.28
Age of respondent	0.00	0.00	1.09	0.28
Main Income: Own Cultivation	0.02	0.10	0.25	0.80
Highest education level of respondent	0.06	0.03	1.75	0.08
Migrant Household	0.16	0.18	0.92	0.36
Household Receives Remittances	0.34	0.12	2.90	0.00
Lived in Village all Respondent's Life	0.01	0.11	0.07	0.95
Ethnic Minority	-0.16	0.13	-1.28	0.20
Dependency Ratio	0.03	0.07	0.36	0.72
Household owns land	0.16	0.25	0.64	0.52
Morris Index	0.00	0.00	2.03	0.04
Food Insecurity Index	-0.01	0.01	-0.65	0.51
Urban	0.02	0.13	0.15	0.88
Conflict in Last 3 Years	-0.28	0.10	-2.75	0.01
Safe in Neighbourhood	0.02	0.16	0.15	0.88
District: Rolpa	0.07	0.17	0.40	0.69
District: Bardiya	-0.69	0.13	-5.39	0.00
Total Shocks	0.02	0.01	1.36	0.18
Total crimes	-0.05	0.03	-1.90	0.06
Distance to Clinic	0.00	0.00	-0.84	0.40
Distance to Water Source	-0.01	0.01	-1.68	0.09
Receiving Social Protection	0.03	0.10	0.26	0.80
Receiving Livelihood Transfer	0.20	0.12	1.59	0.11
Not Satisfied with Health Service Overall	0.05	0.16	0.29	0.77
Water Clean and Safe	-0.15	0.15	-1.00	0.32
Satisfied with Number of Qualified Personnel	0.14	0.15	0.88	0.38
Dissatisfied with Number of Qualified Personnel	-0.16	0.26	-0.62	0.53
Satisfied with Availability of Medicine	0.28	0.14	2.01	0.05
Dissatisfied with Availability of Medicine	-0.05	0.23	-0.20	0.84
Satisfied with Waiting Time	-0.40	0.14	-2.87	0.00
Dissatisfied with Waiting Time	0.11	0.24	0.44	0.66
Queue for Drinking Water	0.17	0.11	1.54	0.12
Official Fees: Health Clinic	-0.17	0.13	-1.28	0.20
Informal Fees: Health Clinic	-0.54	0.20	-2.64	0.01
Fees for Drinking Water	0.03	0.14	0.19	0.85
Clinic Run by Government	0.29	0.11	2.57	0.01
Water Provided by Government	0.41	0.24	1.69	0.09
Water Provided by Private Owner	0.51	0.22	2.26	0.02
Water Provided by NGO	0.54	0.30	1.82	0.07
Experienced Problem with Service (Aggregate)	-0.20	0.05	-3.83	0.00
Know How to Make a Grievance (Aggregate)	0.14	0.02	5.50	0.00
Know About a Community Meeting (Aggregate)	0.00	0.00	-1.10	0.27
Attended Community Meeting (Aggregrate)	0.13	0.05	2.62	0.01
Consulted about Local Services (Aggregate)	0.11	0.05	2.13	0.03

Constant	-1.41	0.53	-2.67	0.01
Obs	2517.00			
PR2	0.10			

Table 41: Multinomial logit regression of perception that local government reflects priorities

Local government reflects my priorities	Coefficient	Standard Error	t-value	P>t
Never (base outcome)				
Almost never				
Respondent is Female	-0.02	0.25	-0.09	0.93
Age of respondent	-0.01	0.01	-0.64	0.52
Main Income: Own Cultivation	-0.20	0.21	-0.93	0.35
Highest education level of respondent	-0.13	0.08	-1.49	0.14
Migrant Household	-0.65	0.51	-1.28	0.20
Household Receives Remittances	0.09	0.25	0.38	0.71
Lived in Village all Respondent's Life	0.01	0.24	0.03	0.98
Ethnic Minority	-0.49	0.27	-1.79	0.07
Dependency Ratio	0.02	0.15	0.16	0.87
Household owns land	-0.03	0.47	-0.07	0.94
Morris Index	0.00	0.00	0.32	0.75
Food Insecurity Index	-0.01	0.02	-0.52	0.61
Urban	0.05	0.31	0.16	0.87
Conflict in Last 3 Years	0.03	0.21	0.12	0.90
Safe in Neighbourhood	-0.08	0.32	-0.25	0.80
District: Rolpa	0.44	0.37	1.19	0.24
District: Bardiya	0.05	0.30	0.17	0.87
Total Shocks	0.00	0.02	-0.14	0.89
Total crimes	-0.03	0.04	-0.77	0.44
Distance to Clinic	0.00	0.00	-0.20	0.84
Distance to Water Source	0.00	0.01	-0.20	0.84
Receiving Social Protection	0.13	0.22	0.60	0.55
Receiving Livelihood Transfer	0.05	0.26	0.19	0.85
Not Satisfied with Health Service Overall	1.06	0.32	3.32	0.00
Overall Satisfaction with Education Service	0.10	0.29	0.35	0.73
Water Clean and Safe	-0.06	0.29	-0.20	0.84
Satisfied with Number of Qualified Personnel	0.41	0.34	1.23	0.22
Dissatisfied with Number of Qualified Personnel	1.22	0.50	2.43	0.02
Satisfied with Availability of Medicine	0.55	0.32	1.75	0.08
Dissatisfied with Availability of Medicine	0.36	0.46	0.78	0.44
Satisfied with Waiting Time	-0.34	0.29	-1.16	0.25
Dissatisfied with Waiting Time	-0.39	0.48	-0.82	0.41
Queue for Drinking Water	0.49	0.19	2.59	0.01
Official Fees: Health Clinic	-0.38	0.29	-1.33	0.18
Informal Fees: Health Clinic	0.39	0.36	1.09	0.28
Fees for Drinking Water	-0.55	0.30	-1.85	0.06
Clinic Run by Government	-0.16	0.25	-0.64	0.52

0.74		4 = 0	
		+	0.14
	-		0.40
			0.15
-		+	0.54
			0.24
	-		0.62
	-		0.27
0.16	0.11	1.48	0.14
			0.15
	-		0.44
-	-	+	0.02
		+	0.00
0.38	0.26	1.47	0.14
0.13		0.78	0.44
		0.13	0.90
		-0.78	0.43
		0.40	0.69
0.20	0.35	0.57	0.57
0.00	0.00	0.83	0.41
-0.01	0.01	-0.60	0.55
0.04	0.19	0.22	0.82
-0.06	0.14	-0.44	0.66
0.15	0.22	0.65	0.52
-0.01	0.23	-0.06	0.95
-0.43	0.19	-2.28	0.02
0.01	0.02	0.41	0.68
0.02	0.03	0.86	0.39
0.00	0.00	-0.74	0.46
0.00	0.01	-0.52	0.60
0.19	0.14	1.31	0.19
0.16	0.17	0.97	0.33
0.35	0.22	1.55	0.12
-0.31	0.21	-1.49	0.14
0.24	0.21	1.16	0.25
0.24	0.22	1.10	0.27
0.55	0.38	1.44	0.15
0.29	0.20	1.47	0.14
-0.13	0.33	-0.38	0.71
-0.76	0.19	-4.04	0.00
-0.18	0.32	-0.57	0.57
-0.12	0.15	-0.82	0.41
-0.53	0.19	+	0.00
0.05	0.26	+	0.83
-0.16	0.19	+	0.39
			0.93
0.48	0.32	1.52	0.13
	0.13 0.02 -0.13 0.04 0.20 0.00 -0.01 0.04 -0.06 0.15 -0.01 -0.43 0.01 -0.43 0.01 0.02 0.00 0.00 0.19 0.16 0.35 -0.31 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	0.37 0.44 -1.63 1.12 -0.06 0.10 0.07 0.06 0.00 0.00 0.12 0.11 0.16 0.11 0.15 0.16 0.00 0.01 0.33 0.14 0.15 0.05 0.38 0.26 0.13 0.17 0.02 0.15 -0.13 0.17 0.04 0.10 0.20 0.35 0.00 0.01 0.20 0.35 0.00 0.00 -0.01 0.23 -0.01 0.23 -0.02 0.33 0.04 0.19 -0.05 0.22 -0.01 0.23 -0.02 0.03 0.00 0.00 0.01 0.22 0.02 0.33 0.02 0.33 0.04 0.19 <t< td=""><td>0.37$0.44$$0.85$$-1.63$$1.12$$-1.46$$-0.06$$0.10$$-0.61$$0.07$$0.06$$1.19$$0.00$$0.00$$0.49$$0.12$$0.11$$1.10$$0.16$$0.11$$1.48$$-0.22$$0.16$$-1.43$$0.00$$0.01$$0.76$$0.33$$0.14$$2.39$$0.15$$0.05$$3.01$$0.38$$0.26$$1.47$$0.13$$0.17$$0.78$$0.02$$0.15$$0.13$$0.13$$0.17$$0.78$$0.02$$0.15$$0.13$$0.13$$0.17$$-0.78$$0.04$$0.10$$0.40$$0.20$$0.35$$0.57$$0.00$$0.00$$0.83$$-0.01$$0.21$$-0.60$$0.04$$0.19$$0.22$$-0.06$$0.14$$-0.44$$0.15$$0.22$$0.65$$-0.01$$0.23$$-0.06$$-0.43$$0.19$$-2.28$$0.01$$0.02$$0.41$$0.02$$0.33$$0.86$$0.00$$0.01$$-0.52$$0.19$$0.14$$1.31$$0.16$$0.17$$0.97$$0.35$$0.22$$1.55$$-0.31$$0.21$$-1.49$$0.24$$0.22$$1.10$$0.55$$0.38$$1.44$$0.29$$0.20$$1.47$$-0.13$$0.33$$-0.38$$-0.76$</td></t<>	0.37 0.44 0.85 -1.63 1.12 -1.46 -0.06 0.10 -0.61 0.07 0.06 1.19 0.00 0.00 0.49 0.12 0.11 1.10 0.16 0.11 1.48 -0.22 0.16 -1.43 0.00 0.01 0.76 0.33 0.14 2.39 0.15 0.05 3.01 0.38 0.26 1.47 0.13 0.17 0.78 0.02 0.15 0.13 0.13 0.17 0.78 0.02 0.15 0.13 0.13 0.17 -0.78 0.04 0.10 0.40 0.20 0.35 0.57 0.00 0.00 0.83 -0.01 0.21 -0.60 0.04 0.19 0.22 -0.06 0.14 -0.44 0.15 0.22 0.65 -0.01 0.23 -0.06 -0.43 0.19 -2.28 0.01 0.02 0.41 0.02 0.33 0.86 0.00 0.01 -0.52 0.19 0.14 1.31 0.16 0.17 0.97 0.35 0.22 1.55 -0.31 0.21 -1.49 0.24 0.22 1.10 0.55 0.38 1.44 0.29 0.20 1.47 -0.13 0.33 -0.38 -0.76

Water Provided by Private Owner	0.16	0.29	0.57	0.57
Water Provided by NGO	0.10	0.29	0.57	0.37
	-0.17	0.41	-2.30	0.48
Experienced Problem with Service (Aggregate) grievance_know	0.07	0.01	1.93	0.02
	0.00	0.04		
Meeting_know	0.19	0.00	-1.56	0.12
Attended Community Meeting (Aggregate)	0.19	0.07	2.71	0.01
Consulted about Local Services (Aggregate)	0.00	0.07	0.86	0.39
Largely or completely				
Respondent is Female	-0.30	0.41	-0.72	0.47
Age of respondent	0.02	0.01	1.54	0.12
Main Income: Own Cultivation	0.48	0.37	1.30	0.19
Highest education level of respondent	0.24	0.12	2.03	0.04
Migrant Household	-0.32	0.72	-0.44	0.66
Household Receives Remittances	0.43	0.43	1.00	0.32
Lived in Village all Respondent's Life	-0.10	0.39	-0.26	0.80
Ethnic Minority	0.31	0.42	0.74	0.46
Dependency Ratio	-0.35	0.32	-1.08	0.28
Household owns land	12.86	533.91	0.02	0.98
Morris Index	0.00	0.01	0.19	0.85
Food Insecurity Index	-0.02	0.04	-0.50	0.61
Urban	0.20	0.51	0.39	0.70
Conflict in Last 3 Years	-0.14	0.37	-0.38	0.71
Safe in Neighbourhood	-1.05	0.46	-2.29	0.02
District: Rolpa	0.94	0.68	1.39	0.17
District: Bardiya	1.10	0.51	2.18	0.03
Total Shocks	0.10	0.03	3.43	0.00
Total crimes	-0.14	0.15	-0.95	0.34
Distance to Clinic	-0.01	0.01	-0.88	0.38
Distance to Water Source	-0.01	0.02	-0.46	0.65
Receiving Social Protection	0.01	0.37	0.03	0.98
Receiving Livelihood Transfer	0.59	0.40	1.46	0.14
Not Satisfied with Health Service Overall	0.16	0.56	0.29	0.77
Overall Satisfaction with Education Service	-0.13	0.56	-0.24	0.81
Water Clean and Safe	-0.94	0.44	-2.14	0.03
Satisfied with Number of Qualified Personnel	-0.51	0.51	-1.00	0.32
Dissatisfied with Number of Qualified Personnel	-0.37	0.98	-0.38	0.71
Satisfied with Availability of Medicine	1.95	0.68	2.87	0.00
Dissatisfied with Availability of Medicine	1.85	0.84	2.21	0.03
Satisfied with Waiting Time	-0.46	0.48	-0.95	0.34
Dissatisfied with Waiting Time	-0.34	0.88	-0.39	0.70
Queue for Drinking Water	0.15	0.37	0.40	0.69
Official Fees: Health Clinic	-0.33	0.46	-0.71	0.48
Informal Fees: Health Clinic	1.15	0.56	2.05	0.04
Fees for Drinking Water	-0.02	0.50	-0.04	0.97
Clinic Run by Government	0.71	0.40	1.76	0.08
Water Provided by Government	-0.70	0.85	-0.82	0.41
Water Provided by Private Owner	-0.92	0.80	-1.16	0.25

Water Provided by NGO	-1.56	1.37	-1.14	0.25
Experienced Problem with Service (Aggregate)	-0.90	0.27	-3.40	0.00
grievance_know	0.28	0.09	3.10	0.00
meeting_know	0.00	0.00	0.06	0.95
Attended Community Meeting (Aggregate)	-0.10	0.17	-0.58	0.56
Consulted about Local Services (Aggregate)	0.32	0.15	2.12	0.03
Constant	-16.79	533.92	-0.03	0.98
Observations	1417.00			
Pseudo-R2	0.10			

Table 42: Logit regression of perception that local government cares about opinions *including* education variables

Local government cares about opinions	Coefficient	Standard Error	t-value	P>t
Respondent is Female	-1.12	0.38	-2.93	0.00
Age of respondent	0.00	0.01	0.33	0.74
Main Income: Own Cultivation	-0.37	0.33	-1.12	0.26
Highest education level of respondent	0.07	0.13	0.54	0.59
Migrant Household	-0.27	0.63	-0.42	0.67
Household Receives Remittances	0.44	0.39	1.12	0.27
Lived in Village all Respondent's Life	-0.03	0.36	-0.08	0.94
Ethnic Minority	0.00	0.37	0.01	0.99
Dependency Ratio	-0.28	0.27	-1.02	0.31
Household owns land	1.87	1.15	1.63	0.10
Morris Index	-0.01	0.01	-1.55	0.12
Food Insecurity Index	0.04	0.03	1.47	0.14
Urban	0.03	0.47	0.07	0.95
Conflict in Last 3 Years	0.07	0.34	0.19	0.85
Safe in Neighbourhood	0.36	0.52	0.68	0.49
District: Rolpa	-0.39	0.56	-0.69	0.49
District: Bardiya	-1.12	0.50	-2.24	0.03
Total Shocks	0.07	0.05	1.39	0.17
Total crimes	0.01	0.06	0.17	0.86
Distance to Clinic	0.00	0.00	0.70	0.48
Distance to Water Source	-0.01	0.02	-0.53	0.60
Receiving Social Protection	0.02	0.36	0.06	0.95
Receiving Livelihood Transfer	0.07	0.38	0.18	0.86
Not Satisfied with Health Service Overall	0.63	0.57	1.11	0.27
Water Clean and Safe	-0.70	0.42	-1.66	0.10
Satisfied with Number of Qualified Personnel	0.31	0.57	0.54	0.59
Dissatisfied with Number of Qualified Personnel	0.91	1.00	0.91	0.36
Satisfied with Availability of Medicine	0.92	0.54	1.69	0.09
Dissatisfied with Availability of Medicine	0.30	0.79	0.38	0.70
Satisfied with Waiting Time	-0.05	0.44	-0.12	0.91
Dissatisfied with Waiting Time	0.52	0.78	0.66	0.51
Queue for Drinking Water	-0.65	0.39	-1.66	0.10
Satisfied with Number of Teachers (Boys)	0.04	0.63	0.06	0.95

Satisfied with Quality of Teaching(Boys)	-1.47	1.49	-0.99	0.32
Dissatisfied with Quality of Teaching(Boys)	42.24	2475.26	0.02	0.99
Satisfied with Teacher Attendance (Boys)	-0.90	1.23	-0.73	0.47
Dissatisfied with Teacher Attendance (Boys)	14.10	1200.31	0.01	0.99
Satisfied with Class Size(Boys)	-2.86	1.23	-2.32	0.02
Satisfied with Quality of Infrastructure(Boys)	-2.26	1.11	-2.05	0.04
Dissatisfied with Quality of Infrastructure(Boys)	-3.06	2.14	-1.43	0.15
Satisfied with Quality of Equipment (Boys)	1.30	1.32	0.99	0.33
Dissatisfied with Quality of Equipment (Boys)	-31.33	1696.56	-0.02	0.99
Official Fees: Boys' School	3.66	1.13	3.24	0.00
Satisfied with Quality of Teaching(Girls)	2.11	1.45	1.46	0.15
Dissatisfied with Quality of Teaching(Girls)	-41.96	2475.26	-0.02	0.99
Satisfied with Teacher Attendance (Girls)	1.44	1.28	1.12	0.26
Dissatisfied with Teacher Attendance (Girls)	-14.98	1200.31	-0.01	0.99
Satisfied with Class Size(Girls)	1.52	1.27	1.20	0.23
Dissatisfied with Class Size(Girls)	1.95	1.79	1.09	0.28
Satisfied with Quality of Infrastructure(Girls)	1.20	1.07	1.12	0.26
Dissatisfied with Quality of Infrastructure(Girls)	4.55	2.32	1.96	0.05
Satisfied with Quality of Equipment (Girls)	1.31	1.21	1.09	0.28
Dissatisfied with Quality of Equipment (Girls)	32.41	1696.56	0.02	0.99
Official Fees: Health Clinic	0.09	0.42	0.21	0.83
Informal Fees: Health Clinic	-0.49	0.76	-0.64	0.52
Fees for Drinking Water	0.06	0.46	0.14	0.89
Clinic Run by Government	-0.07	0.37	-0.19	0.85
Informal Fees: Boys' School	-1.22	0.98	-1.25	0.21
Official Fees: Girls' School	-3.68	1.11	-3.31	0.00
Informal Fees: Girls' School	0.35	0.99	0.36	0.72
Water Provided by Government	0.68	0.80	0.84	0.40
Water Provided by Private Owner	0.58	0.76	0.77	0.44
Water Provided by NGO	1.21	0.93	1.30	0.19
Experienced Problem with Service (Aggregate)	-0.62	0.20	-3.12	0.00
Know how to make a grievance (aggregate)	0.31	0.08	3.74	0.00
Know about a community meeting (aggregate)	0.00	0.00	0.82	0.41
Attended Community Meeting (Aggregate)	0.31	0.17	1.83	0.07
Consulted about Local Services (Aggregate)	-0.09	0.18	-0.48	0.63
Constant	-4.53	2.17	-2.09	0.04
Obs	396.00			
PR2	0.30			

Table 43: Perception of central government, by district

District	To w	To what extent do you feel that the decisions of those in power at the central government reflect your own priorities									
District (***)	Never		Almost never		Only in some areas		To a larg	ge extent	Comp	oletely	Total
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count
Rolpa	240	53.8	64	14.3	129	28.9	13	2.9	0	0	446
Bardiya	816	75.8	115	10.7	123	11.4	22	2	1	0.1	1077
llam	768	70.3	96	8.8	208	19	19	1.7	1	0.1	1092
Total	1824	69.8	275	10.5	460	17.6	54	2.1	2	0.1	2615

Table 44: Perception of central government, by ethnic group

	To wha	To what extent do you feel that the decisions of those in power at the central government reflect your own priorities									
Caste/ ethnicity (***)	Never		Almos	t never	Only in are	some	To a	large tent	Com	oletely	Total
(^^^)	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count
Brahmin	646	69.8	94	10.2	171	18.5	15	1.6	0	0	926
Janjati	811	68.3	138	11.6	212	17.8	25	2.1	2	0.2	1188
Dalit	118	66.7	13	7.3	37	20.9	9	5.1	0	0	177
Madhesi	155	84.2	16	8.7	11	6	2	1.1	0	0	184
Muslim	64	75.3	6	7.1	13	15.3	2	2.4	0	0	85
Other	30	54.5	8	14.5	16	29.1	1	1.8	0	0	55
Total	1824	69.8	275	10.5	460	17.6	54	2.1	2	0.1	2615

Source: Field Survey 2012

Table 45: Perception of central government, by respondent's gender

Gender (not		extent c	lo you f	eel that		ons of thos ur own prio	-	er at the ce	entral go	overnme	nt reflect
significant)							Comp	oletely	Total		
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count
Male	819	68.4	126	10.5	228	19.1	23	1.9	1	0.1	1197
Female	1005	70.9	149	10.5	232	16.3	31	2.2	1	0.1	1418
Total	1824	69.8	275	10.5	460	17.6	54	2.1	2	0.1	2615

Table 46: Logit regression of perception that central government cares about opinions

Central government cares about opinions	Coefficient	Standard Error	t-value	P>t
Respondent is Female	-0.07	0.13	-0.53	0.59
Age of respondent	0.00	0.00	0.76	0.45
Main Income: Own Cultivation	-0.29	0.12	-2.44	0.02
Highest education level of respondent	0.08	0.04	1.98	0.05
Migrant Household	0.47	0.21	2.25	0.02
Household Receives Remittances	0.12	0.14	0.87	0.38
Lived in Village all Respondent's Life	0.23	0.13	1.82	0.07
Ethnic Minority	-0.27	0.16	-1.68	0.09
Dependency Ratio	-0.08	0.09	-0.88	0.38
Household owns land	-0.15	0.27	-0.54	0.59
Morris Index	0.00	0.00	0.17	0.87
Food Insecurity Index	0.01	0.01	1.15	0.25
Urban	0.33	0.15	2.17	0.03
Conflict in Last 3 Years	-0.13	0.12	-1.05	0.29
Safe in Neighbourhood	0.30	0.21	1.43	0.15
District: Rolpa	0.57	0.20	2.86	0.00
District: Bardiya	-1.00	0.16	-6.33	0.00
Total Shocks	-0.02	0.02	-1.05	0.29
Total crimes	-0.01	0.02	-0.57	0.57
Distance to Clinic	0.00	0.00	-1.06	0.29
Distance to Water Source	0.00	0.01	0.12	0.91
Receiving Social Protection	0.19	0.12	1.58	0.11
Receiving Livelihood Transfer	0.18	0.14	1.25	0.21
Not Satisfied with Health Service Overall	0.11	0.19	0.56	0.58
Water Clean and Safe	0.08	0.19	0.44	0.66
Satisfied with Number of Qualified Personnel	0.06	0.19	0.29	0.77
Dissatisfied with Number of Qualified Personnel	-0.18	0.30	-0.60	0.55
Satisfied with Availability of Medicine	0.32	0.17	1.93	0.05
Dissatisfied with Availability of Medicine	0.03	0.27	0.12	0.90
Satisfied with Waiting Time	-0.27	0.16	-1.67	0.10
Dissatisfied with Waiting Time	0.01	0.28	0.02	0.99
Queue for Drinking Water	-0.13	0.14	-0.95	0.34
Official Fees: Health Clinic	-0.43	0.16	-2.75	0.01
Informal Fees: Health Clinic	-0.21	0.25	-0.82	0.41
Fees for Drinking Water	0.07	0.17	0.43	0.67
Clinic Run by Government	0.17	0.13	1.30	0.19
Water Provided by Government	0.83	0.33	2.48	0.01
Water Provided by Private Owner	0.80	0.32	2.51	0.01
Water Provided by NGO	0.86	0.39	2.20	0.03
Experienced Problem with Service (Aggregate)	-0.15	0.06	-2.34	0.02
Know How to Make a Grievance (Aggregate)	0.13	0.03	4.47	0.00
Know About a Community Meeting (Aggregate)	0.00	0.00	-0.17	0.86
Attended Community Meeting (Aggregate)	0.13	0.06	2.27	0.02
Consulted about Local Services (Aggregate)	0.09	0.05	1.67	0.09
Constant	-2.52	0.65	-3.88	0.00
Obs	2393.00			
PR2	0.13			

Table 47: Multinomial logit regression of perception that central government decisions reflect priorities

Central government reflects my priorities	Coefficient	Standard Error	t-value	P>t
Never (base outcome)				
Almost never	0.21	0.23	0.80	0.27
Respondent is Female	0.21		0.89	0.37
Age of respondent	0.01	0.01	0.71	0.48
Main Income: Own Cultivation	-0.36	0.21	-1.73	0.08
Highest education level of respondent	0.06	0.07	0.82	0.41
Migrant Household	0.28	0.36	0.79	0.43
Household Receives Remittances	0.20	0.24	0.81	0.42
Lived in Village all Respondent's Life	0.13	0.23	0.57	0.57
Ethnic Minority	-0.39	0.26	-1.48	0.14
Dependency Ratio	-0.01	0.15	-0.08	0.93
Household owns land	0.24	0.50	0.48	0.63
Morris Index	0.00	0.00	0.37	0.71
Food Insecurity Index	0.03	0.02	1.82	0.07
Urban	-0.43	0.29	-1.50	0.13
Conflict in Last 3 Years	0.33	0.20	1.64	0.10
Safe in Neighbourhood	0.18	0.32	0.57	0.57
District: Rolpa	0.68	0.36	1.86	0.06
District: Bardiya	0.69	0.29	2.42	0.02
Total Shocks	0.00	0.02	0.05	0.96
Total crimes	-0.03	0.05	-0.66	0.51
Distance to Clinic	0.00	0.00	-0.36	0.72
Distance to Water Source	-0.01	0.01	-0.49	0.62
Receiving Social Protection	-0.17	0.21	-0.80	0.43
Receiving Livelihood Transfer	-0.10	0.26	-0.38	0.71
Not Satisfied with Health Service Overall	0.82	0.31	2.67	0.01
Overall Satisfaction with Education Service	-0.01	0.30	-0.05	0.96
Water Clean and Safe	-0.03	0.30	-0.11	0.91
Satisfied with Number of Qualified Personnel	-0.15	0.30	-0.51	0.61
Dissatisfied with Number of Qualified Personnel	-0.60	0.56	-1.07	0.28
Satisfied with Availability of Medicine	0.60	0.30	2.01	0.04
Dissatisfied with Availability of Medicine	0.09	0.48	0.19	0.85
Satisfied with Waiting Time	-0.17	0.28	-0.59	0.56
Dissatisfied with Waiting Time	-0.06	0.49	-0.12	0.90
Queue for Drinking Water	0.18	0.19	0.91	0.36
Official Fees: Health Clinic	-0.15	0.28	-0.53	0.60
Informal Fees: Health Clinic	0.71	0.34	2.09	0.04
Fees for Drinking Water	-0.18	0.28	-0.63	0.53
Clinic Run by Government	0.05	0.20	0.00	0.83
Water Provided by Government	0.46	0.24	1.02	0.31
Water Provided by Government Water Provided by Private Owner	-0.05	0.43	-0.12	0.90
Water Provided by Private Owner Water Provided by NGO	-0.31	0.41	-0.12	0.90
Experienced Problem with Service (Aggregate)	-0.31	0.15	-0.41	0.00

grievance_know	0.08	0.05	1.39	0.17
meeting_know	0.00	0.00	0.11	0.91
Attended Community Meeting (Aggregate)	0.02	0.10	0.21	0.84
Consulted about Local Services (Aggregate)	0.24	0.10	2.49	0.01
Only in some areas				
Respondent is Female	0.00	0.20	0.01	0.99
Age of respondent	0.01	0.01	1.76	0.08
Main Income: Own Cultivation	-0.31	0.17	-1.75	0.08
Highest education level of respondent	0.17	0.06	2.82	0.01
Migrant Household	0.31	0.33	0.96	0.34
Household Receives Remittances	-0.02	0.21	-0.07	0.94
Lived in Village all Respondent's Life	0.09	0.19	0.45	0.65
Ethnic Minority	-0.01	0.21	-0.06	0.96
Dependency Ratio	-0.18	0.12	-1.43	0.15
Household owns land	0.79	0.51	1.55	0.12
Morris Index	0.00	0.00	-0.95	0.34
Food Insecurity Index	0.01	0.02	0.56	0.58
Urban	0.31	0.24	1.28	0.20
Conflict in Last 3 Years	-0.08	0.18	-0.45	0.66
Safe in Neighbourhood	0.54	0.30	1.83	0.07
District: Rolpa	0.87	0.28	3.13	0.00
District: Bardiya	-0.49	0.24	-2.02	0.04
Total Shocks	-0.01	0.02	-0.48	0.63
Total crimes	0.02	0.04	0.63	0.53
Distance to Clinic	0.00	0.00	-0.94	0.35
Distance to Water Source	0.00	0.01	-0.05	0.96
Receiving Social Protection	0.04	0.18	0.25	0.80
Receiving Livelihood Transfer	0.26	0.20	1.28	0.20
Not Satisfied with Health Service Overall	0.50	0.28	1.78	0.08
Overall Satisfaction with Education Service	0.15	0.25	0.61	0.54
Water Clean and Safe	-0.20	0.24	-0.82	0.41
Satisfied with Number of Qualified Personnel	0.71	0.30	2.39	0.02
Dissatisfied with Number of Qualified Personnel	-0.32	0.50	-0.64	0.52
Satisfied with Availability of Medicine	0.52	0.25	2.02	0.04
Dissatisfied with Availability of Medicine	0.50	0.40	1.25	0.21
Satisfied with Waiting Time	-0.56	0.23	-2.37	0.02
Dissatisfied with Waiting Time	-0.30	0.41	-0.73	0.46
Queue for Drinking Water	-0.04	0.17	-0.26	0.79
Official Fees: Health Clinic	-0.53	0.22	-2.39	0.02
Informal Fees: Health Clinic	0.25	0.32	0.79	0.43
Fees for Drinking Water	-0.09	0.23	-0.41	0.68
Clinic Run by Government	0.30	0.19	1.54	0.12
Water Provided by Government	0.22	0.40	0.54	0.59
Water Provided by Private Owner	0.00	0.37	-0.01	1.00
Water Provided by NGO	0.85	0.48	1.78	0.08
Experienced Problem with Service (Aggregate)	-0.23	0.09	-2.42	0.02
grievance_know	0.05	0.04	1.04	0.30

meeting_know	0.00	0.00	-1.69	0.09
Attended Community Meeting (Aggregate)	0.20	0.08	2.49	0.01
Consulted about Local Services (Aggregate)	-0.05	0.09	-0.51	0.61
Largely or completely				
Respondent is Female	0.02	0.51	0.03	0.98
Age of respondent	-0.01	0.02	-0.51	0.61
Main Income: Own Cultivation	1.04	0.51	2.05	0.04
Highest education level of respondent	-0.07	0.17	-0.39	0.70
Migrant Household	-1.23	1.17	-1.05	0.30
Household Receives Remittances	0.80	0.57	1.41	0.16
Lived in Village all Respondent's Life	0.03	0.50	0.05	0.96
Ethnic Minority	0.31	0.52	0.59	0.56
Dependency Ratio	-0.63	0.43	-1.46	0.15
Household owns land	-0.37	1.20	-0.31	0.76
Morris Index	0.01	0.01	2.31	0.02
Food Insecurity Index	0.03	0.05	0.70	0.48
Urban	-0.23	0.70	-0.33	0.74
Conflict in Last 3 Years	-1.13	0.57	-2.00	0.05
Safe in Neighbourhood	-0.78	0.70	-1.12	0.26
District: Rolpa	0.62	0.86	0.73	0.47
District: Bardiya	0.47	0.73	0.64	0.52
Total Shocks	-0.13	0.10	-1.30	0.20
Total crimes	-0.34	0.25	-1.35	0.18
Distance to Clinic	-0.01	0.01	-1.46	0.14
Distance to Water Source	-0.02	0.03	-0.64	0.52
Receiving Social Protection	1.04	0.50	2.06	0.04
Receiving Livelihood Transfer	-0.10	0.53	-0.19	0.85
Not Satisfied with Health Service Overall	-0.39	0.79	-0.49	0.63
Overall Satisfaction with Education Service	-0.07	0.78	-0.09	0.93
Water Clean and Safe	-0.84	0.60	-1.40	0.16
Satisfied with Number of Qualified Personnel	1.18	0.93	1.27	0.21
Dissatisfied with Number of Qualified Personnel	-15.57	788.19	-0.02	0.98
Satisfied with Availability of Medicine	1.49	0.90	1.66	0.10
Dissatisfied with Availability of Medicine	2.89	1.37	2.11	0.04
Satisfied with Waiting Time	-1.08	0.63	-1.72	0.09
Dissatisfied with Waiting Time	-0.22	1.18	-0.18	0.86
Queue for Drinking Water	0.36	0.42	0.86	0.39
Official Fees: Health Clinic	-1.05	0.58	-1.82	0.07
Informal Fees: Health Clinic	1.46	0.73	2.01	0.05
Fees for Drinking Water	1.19	0.67	1.77	0.08
Clinic Run by Government	0.43	0.51	0.84	0.40
Water Provided by Government	-0.57	1.02	-0.55	0.58
Water Provided by Private Owner	-0.47	0.98	-0.48	0.63
Water Provided by NGO	-0.68	1.39	-0.49	0.63
Experienced Problem with Service (Aggregate)	-0.68	0.33	-2.06	0.04
grievance_know	0.34	0.11	2.98	0.00
meeting_know	0.00	0.00	-0.38	0.70

Attended Community Meeting (Aggregate)	0.15	0.22	0.69	0.49
Consulted about Local Services (Aggregate)	0.40	0.19	2.09	0.04
Constant	-3.29	2.54	-1.30	0.19
Observations	1312.00			
Pseudo-R2	0.13			

 Table 48: Logit regression of perception that central government cares about opinions including education variables

Central government cares about opinions	Coefficient	Standard Error	t-value	P>t
Respondent is Female	0.13	0.46	0.28	0.78
Age of respondent	-0.01	0.02	-0.38	0.70
Main Income: Own Cultivation	-0.48	0.40	-1.20	0.23
Highest education level of respondent	0.10	0.15	0.65	0.52
Migrant Household	0.21	0.83	0.25	0.80
Household Receives Remittances	-0.56	0.48	-1.17	0.24
Lived in Village all Respondent's Life	0.91	0.45	2.02	0.04
Ethnic Minority	-0.15	0.46	-0.34	0.74
Dependency Ratio	-0.20	0.35	-0.57	0.57
Household owns land	1.50	1.27	1.18	0.24
Morris Index	0.00	0.01	-0.44	0.66
Food Insecurity Index	0.01	0.04	0.18	0.86
Urban	0.69	0.57	1.20	0.23
Conflict in Last 3 Years	-0.40	0.44	-0.92	0.36
Safe in Neighbourhood	0.85	0.76	1.13	0.26
District: Rolpa	0.61	0.70	0.87	0.39
District: Bardiya	-1.88	0.61	-3.10	0.00
Total Shocks	0.04	0.06	0.65	0.51
Total crimes	0.17	0.10	1.67	0.10
Distance to Clinic	0.00	0.01	-0.46	0.65
Distance to Water Source	-0.02	0.03	-0.64	0.52
Receiving Social Protection	-0.20	0.44	-0.44	0.66
Receiving Livelihood Transfer	0.30	0.45	0.68	0.50
Not Satisfied with Health Service Overall	1.63	0.76	2.16	0.03
Water Clean and Safe	-0.66	0.54	-1.22	0.22
Satisfied with Number of Qualified Personnel	2.51	0.82	3.06	0.00
Dissatisfied with Number of Qualified Personnel	1.75	1.18	1.48	0.14
Satisfied with Availability of Medicine	0.26	0.67	0.39	0.70
Dissatisfied with Availability of Medicine	0.09	0.98	0.10	0.92
Satisfied with Waiting Time	0.54	0.56	0.97	0.33
Dissatisfied with Waiting Time	0.99	0.96	1.03	0.30
Queue for Drinking Water	-1.41	0.59	-2.39	0.02
Satisfied with Number of Teachers (Boys)	0.45	0.91	0.49	0.62
Satisfied with Quality of Teaching(Boys)	-3.39	1.98	-1.71	0.09
Dissatisfied with Quality of Teaching(Boys)	5.15	1563.20	0.00	1.00
Satisfied with Teacher Attendance (Boys)	0.83	1.51	0.55	0.59

Dissatisfied with Teacher Attendance (Boys)	16.50	2446.35	0.01	1.00
Satisfied with Class Size(Boys)	-1.47	1.86	-0.79	0.43
Satisfied with Quality of Infrastructure(Boys)	-2.53	1.31	-1.92	0.05
Dissatisfied with Quality of Infrastructure(Boys)	-17.29	1471.36	-0.01	0.99
Satisfied with Quality of Equipment (Boys)	0.87	1.69	0.52	0.61
Dissatisfied with Quality of Equipment (Boys)	2.43	3.04	0.80	0.42
Official Fees: Boys' School	2.14	0.93	2.30	0.02
Satisfied with Quality of Teaching(Girls)	3.92	1.94	2.02	0.04
Dissatisfied with Quality of Teaching(Girls)	-5.27	1563.20	0.00	1.00
Satisfied with Teacher Attendance (Girls)	1.30	1.75	0.74	0.46
Dissatisfied with Teacher Attendance (Girls)	-14.85	2446.35	-0.01	1.00
Satisfied with Class Size(Girls)	2.49	1.87	1.33	0.18
Dissatisfied with Class Size(Girls)	4.20	2.20	1.91	0.06
Satisfied with Quality of Infrastructure(Girls)	-0.24	1.27	-0.19	0.85
Dissatisfied with Quality of Infrastructure(Girls)	16.80	1471.36	0.01	0.99
Satisfied with Quality of Equipment (Girls)	1.88	1.53	1.23	0.22
Dissatisfied with Quality of Equipment (Girls)	-0.35	3.20	-0.11	0.91
Official Fees: Health Clinic	0.10	0.51	0.19	0.85
Informal Fees: Health Clinic	-0.16	0.88	-0.18	0.86
Fees for Drinking Water	-0.69	0.58	-1.18	0.24
Clinic Run by Government	-0.03	0.43	-0.06	0.95
Informal Fees: Boys' School	0.56	1.08	0.52	0.60
Official Fees: Girls' School	-2.59	0.93	-2.78	0.01
Informal Fees: Girls' School	-1.19	1.11	-1.07	0.29
Water Provided by Government	-0.74	0.94	-0.79	0.43
Water Provided by Private Owner	-1.31	0.90	-1.46	0.14
Water Provided by NGO	0.91	1.19	0.77	0.44
Experienced Problem with Service (Aggregate)	-0.47	0.26	-1.84	0.07
Know How to Make a Grievance (Aggregate)	0.30	0.10	3.06	0.00
Know About a Community Meeting (Aggregate)	0.00	0.00	0.90	0.37
Attended Community Meeting (Aggregate)	0.42	0.21	2.03	0.04
Consulted about Local Services (Aggregate)	0.01	0.19	0.04	0.97
Constant	-8.58	2.90	-2.96	0.00
Obs	372.00			
PR2	0.37			



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