Ghana 2012:

The Impact of Domestic Election Observation on Electoral Violence, Integrity, and Voting Behavior

Codebook

Version 1.3

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Chapter 1

Overview

Project Objectives and Documentation

The purpose of this research project is to investigate the impact of domestic election observers on outcomes of interest (including electoral fraud and violence) in observed polling stations, to identify spillover effects of observers in unobserved polling stations, and to estimate the impact of observers on voters in the surrounding communities during the December 2012 general elections in Ghana. To conduct this research, we partnered with Ghana's Coalition of Domestic Election Observers (CODEO), the country's main election observation organization. Implementation of the project was facilitated by the Ghana Center for Democratic Development (CDD-Ghana), under whose auspices CODEO falls.

The current document contains documentation of and codebooks for four datasets that were collected during and after the December 2012 general elections in Ghana. The four datasets contain: (1) data collected using a survey instrument called the Violent Incident Report (VIR) that was administered at treated and control polling stations on election day; (2) data collected using a survey instrument called the Post-Election Survey (PES) that was administered to individual voters in the communities of the treated and control polling stations during the 48 hours following the elections; (3) data collected in summer 2013 that geocoded locations of treated and control polling stations in one region (Ashanti) and (4) data collected as part of the same follow-up project that documented other characteristics of the sampled electoral constituencies in the Ashanti.

Data Release Information

This codebook and accompanying datasets were prepared for release on the BITSS Dataverse site in January 2016. The four datasets that are released with this codebook are entitled:

- vir_2015_12_28.dta (data collected using the Violent Incident Reports);

- pes_2015_12_12.dta (data collected using a Post-Election Survey);
- ashanti_stations_2015_12_11.dta (geo-codes of sampled Ashanti polling stations);
- ashanti_landmarks_2016_01_03.dta (geo-codes of Ashanti landmarks).

Chapter 2

Research Design of the Original Study

To achieve our objectives of studying both direct and spillover effects of election observers, we use a randomized saturation design. In our design, the polling places are our *units*. These units are grouped into constituencies, which are our *clusters*.

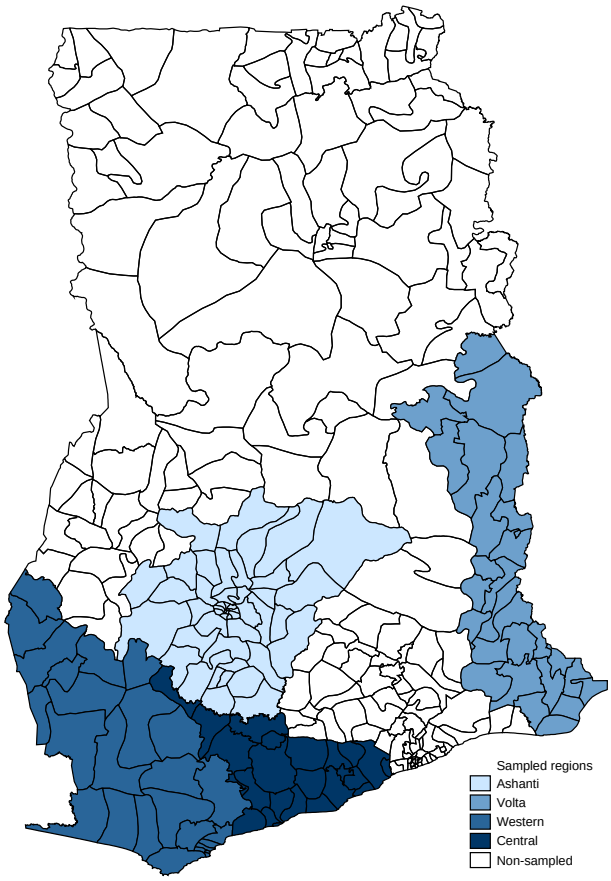
The randomized saturation design combines elements from other, more standard experimental designs: the cluster randomized design, the block randomized design, and the partial population design. In a cluster randomized design, treatment is assigned to clusters with some probability p, and treatment to individual units within clusters with probability 1 (in other words, if a constituency is chosen for treatment, all polling places are observed). In a block randomized design, treatment is assigned to each cluster with probability 1, and treatment to individual units within clusters with some probability p (in other words, all constituencies receive observers, and the same proportion of polling stations are observed in each constituency). In a partial population design, treatment is assigned to clusters with some probability p, and treatment is assigned to individual units within treated clusters with some probability $p*$.

In the randomized saturation design that we employ, we randomly assign an observer concentration to the sample of clusters (constituencies). In this project, the saturations are 0.30, 0.50, and 0.80, each assigned to individual constituencies with varying probabilities. The probability of a constituency being assigned to the low saturation condition is 0.020, and it is 0.40 for the medium and high conditions. The reason that we assigned constituencies to treatment conditions with varying probability is to increase the power to detect spillover. In the medium and high treatment conditions, there are relatively few control polling stations (by design). To generate more control polling stations to examine for evidence of spillover, we therefore increased the number of constituencies in the medium and high saturations. (We draw a random sample consisting of 30 percent of polling stations in each treated constituency; see the section below, on sampling.) After assigning observer saturations (or concentrations) to each sampled constituency, we randomly assign sample polling places to receive observers according to the probability defined by their constituency's saturation level (0.30, 0.50, or 0.80 of the sample).

Treatment consists of the random assignment of a CODEO election observe for the whole of election day, through the counting of the ballots, to a single polling station. Data is collected from both treated and control (unobserved) polling stations

For operational reasons, we select to work in four of Ghana's ten regions: Central, Volta, Ashanti, and Western. The four regions are all located in the south of the country, making them more easily accessible to the research team (which numbered five). They are home to 46 percent of Ghana's total population. In 2.1, we show a map depicting the location of the four study regions.

Figure 2.1: Map of Ghana Showing the Regions Selected for Study



Our sampling procedure proceeded in four steps.

1. We select a sample of 60 constituencies from the total of 122 that characterize the four regions. From this, we select roughly 2,000 polling stations. This number was arrived at on the basis of (1) the number of enumerators — three hundred — that the five-person research team estimated it would be able to supervise in the field and (2) power calculations. Our goal was to assign to each enumerator no more than seven treated and untreated polling station areas in which to conduct individual voter surveys on the two days following the national election. To do this entailed instructing each enumerator

to conduct 28 individual voter surveys in a day and a half, keeping in mind that travel time between polling station localities could be highly variable and in remote locations could require some hours, due to Ghana's poor road network.

We determine the number of constituencies to sample from each region on the basis of regional population. We thus calculate that the sample should comprise 23 constituencies in Ashanti, 13 in Volta, 11 in Central, and 13 in Western. To select the sample of constituencies in each region, we block on political competition and constituency-level polling station density (i.e. polling stations per square kilometer). We define as politically competitive those constituencies where the vote margin in the most recent (2008) presidential elections was less than or equal to 10 percent. We define constituencies as being high or low density by cutting the ratio of polling stations to square kilometers at the median across the four regions. The median number of polling places per square kilometer in Ghana is 0.14. We thus define constituencies with high density as those with more than 0.14 polling places per square kilometer. We implemented the randomization using Excel's random selection function.

2. From each of the 60 constituencies that were selected, we randomly select 30 percent of the polling places for inclusion in the study, again using Excel's random selection function.

3. We randomly assign each constituency to one of three observer saturations — 30 percent, 50 percent, or 80 percent. We sort constituencies into blocks based on competitiveness and on polling station density. Blocking is to improve the statistical power of the study, potentially allowing us to determine how the impact of observers varies in competitive areas versus strongholds, for instance. Thirty, 50, or 80 percent of polling stations within the 30 percent of polling stations sampled in each of the 60 constituencies comprise our treated stations.

4. We randomly assign each polling station in the sample to observed or unobserved status using the constituency percentages for treatment just described (30 percent, 50 percent, or 80 percent). Observed polling stations are those in which a CODEO official will be present for the entire period that the polls are open (7:00am–5:00pm) and for the ballot counting that follows. Unobserved polling stations are those that will be visited after 3:00pm by one of our enumerators to collect identical data about election day incidents and poll results but without having had a domestic election observer present for the day.

Sampling Implementation by Region of Study

Ashanti Region

There are a total of 47 constituencies in Ashanti, which is about 38 percent of our target constituencies (which, recall, number 122 in the four regions). Sampling proportional to size means that we need 23 constituencies from Ashanti. The classification of constituencies by polling station density and party competitiveness appears in Table 2.1. We include the only two competitive constituencies in the sample and split the

remaining 21 proportionately between the top cells. This means we will sample 13 from Low Density/Low Competition constituencies (top-left cell) and eight from the top-right cell.

Table 2.1: Ashanti Region: Constituencies Blocked by Polling Station Density and Competitiveness

Competition	***Polling Station Density***	
	High	*Low*
Low	Afigya-Sekyere East	Adansi Asokwa
	Afigya-Kwabre South	Adansi North (Fomena)
	Odotobri	Ahafo Ano South-East
	Manso Edubia	Ahafo Ano South-West
	Bekwai	Asante Akim Central
	Atwima Kwanwoma	Asante Akim North
	Atwima Mponua	Asante Akim South
	Atwima Nwabiagya	New Edubiase
	Atwima Nwabiagya North	Amansie West
	Bosomtwe	Bosome Freho
	Ejisu-Juaben	Mampong
	Juaben	Offinso South
	Asawase	Offinso North
	Asokwa	Kumawu
	Bantama	Sekyere Afram Plains
	Nhyiaeso	Nsuta-Kwamang Beposo
	Oforikrom	Afigya-Sekyere West
	Old Tafo	Effiduase Asokore
	Suame	
	Subin	
	Manhyia	
	Manhyia South	
	Kwadaso	
	Kwabre (formally Kwabre East)	
	Obuasi	
	Obuasi East	
	Akrofuom	
High	Ahafo Ano North	Ejura-Sekyedumase

Central Region

Central has a total of 23 constituencies, which is about 19 percent of the target number of 122. We need to sample 11 Central constituencies. We take all 11 constituencies in the high competition block, listed in Table 2.2.

Table 2.2: Central Region: Constituencies Blocked by Polling Station Density and Competitiveness

Competition	**Polling Station Density**	
	High	*Low*
Low	Abura-Asebu Kwamankese	Assin North
	Gomoa East	Assin South
	Gomoa Central	Gomoa West
	Mfantseman East (Ekumfi)	KEEA
	Mfantseman West	Upper Denkyira East
	Twifu-Atti Morkwaa	Upper Denkyira West
High	Agona East	Asikuma Odeben Brakwa
	Agona West	Assin Central
	Ajumako Enyan Essiam	Hemang Lower Denkyira
	Awutu-Senya	
	Awutu-Senya East	
	Cape Coast North	
	Cape Coast South	
	Effutu	

Volta Region

Volta has 26 constituencies, so we need to sample 13. We include the only competitive constituency, enumerated in Table 2.3, and draw the remaining 12 proportionately between the two top cells. Thus, we take four from the top-left and eight from the top-right cell.

Table 2.3: Volta Region: Constituencies Blocked by Polling Station Density and Competitiveness

Competition	**Polling Station Density**	
	High	*Low*
Low	Akatsi South (Avenor Ave)	Agotime Ziope
	Biakoye	Adaklu
	Hohoe North	Akatsi North (Ave Dakpa)
	Anlo	Ho Central
	Keta	Ho West
	Ketu South	Hohoe South
	Kpando	Buem
	North Dayi	Akan
		Ketu North
		Krachi East
		Krachi West
		Krachi Nchumuru
		Nkwanta South
		Central Tongu
		North Tongu
		South Dayi
		South Tongu
High		Nkwanta North

Western Region

From Western, which has 26 constituencies (the same number as Volta) we need to sample 13, just as in Volta. We take all eight competitive Western constituencies and split the remaining five proportionately between the top cells depicted in Table 2.4. We thus have two from the top-left cell and three from the top-right cell.

Table 2.4: Western Region: Constituencies Blocked by Polling Station Density and Competitiveness

Competition	**Polling Station Density**	
	High	Low
Low	Amenfi Central	Aowin
	Ahanta West	Suaman
	Effia Kwesimintim	Bia
	Kwesimintim	Bia East
	Esikadu Ketan	Juabeso
	Sekondi	Bodi
	Takoradi	Evalue Gwira
		Sefwi Akontombra
		Sefwi Wiawso
		Tarkwa Nsuaem
		Amenfi West
High	Bibiani Anhwiaso Bekwai	Ellembele
	Shama	Jomoro
		Mpohor Wassa East
		Mpohor
		Prestea Huni-Valley
		Amenfi East

Overall Summary of Sample

Using the criteria described above produces the following contingency table:

Table 2.5: Overall Summary of Constituency Sample by Blocking Criteria

Competition	**Polling Station Density**		***Total***
	High Density	Low Density	
Low	19	18	37
High	11	12	23
Totals	30	30	60

Constituencies Selected

We list the constituencies sampled in each region in Tables 2.6–2.9.

Table 2.6: Ashanti Region: Sampled Constituencies (23)

Competition	**Polling Station Density**	
	High	Low
Low	Oforikrom	Sekyere Afram Plains
	Manhyia South	Asante Akim Central (formally part of Asante Akim North)
	Bosomtwe	Mampong
	Bekwai	Asante Akim North
	Manso Edubia	Amansie West
	Asokwa	Offinso North
	Manhyia	Offinso South
	Afigya-Sekyere East	Kumawu
	Nhyiaeso	
	Suame	
	Odotobri	
	Obuasi	
	Atwima Mponua	
High	Ahafo Ano North	Ejura-Sekyedumase

Table 2.7: Central Region: Sampled Constituencies (11)

Competition	**Polling Station Density**	
	High	*Low*
Low		
High	Agona East	Asikuma Odeben Brakwa
	Agona West	Assin Central
	Ajumako Enyan Essiam	Hemang Lower Denkyira
	Awutu-Senya	
	Awutu-Senya East	
	Cape Coast North	
	Cape Coast South	
	Effutu	

Table 2.8: Volta Region: Sampled Constituencies (13)

Competition	**Polling Station Density**	
	High	*Low*
Low	North Dayi	South Tongu
	Akatsi South (Avenor Ave)	Krachi East
	Keta	Ho Central
	Anlo	Ho West
		Ketu North
		Krachi West
		Adaklu
		Hohoe South
High		Nkwanta North

Table 2.9: Western Region: Sampled Constituencies (13)

Competition	**Polling Station Density**	
	High	Low
Low	Amenfi Central	Amenfi West
	Sekondi	Sefwi Wiawso
		Bia East
High	Bibiani Anhwiaso Bekwai	Ellembele
	Shama	Jomoro
		Mpohor Wassa East
		Mpohor
		Prestea Huni-Valley
		Amenfi East

Data Collection Procedures

The project was designed to collect data on election day in a random sample of $1,292$ treated polling places and in a random sample of $1,009$ control polling stations in the four regions (out of a total of $10,006$ polling stations) and to collect data from more than $8,000$ individuals living in the sampled locations on the two days following the election.

Election Day Surveys (VIR)

We used approximately three hundred trained enumerators to survey approximately $1,009$ control polling places on election day (December 7, 2012) starting at 3:00pm. (The polls close at 5:00pm, followed by public counting of the ballots at the polling place.) The survey work consisted of three steps:

1. The first was to interview those present at the polling stations who were officially representing the country's two major political parties, the NDC and the NPP, and to complete a separate CODEO (UCLA) Observer Checklist/VIR for each party representative. The VIR consists of 40 questions about events at the polling station. The VIR is identical to that used by CODEO Election Observers at the $4,000$ polling stations to which they are assigned for the entirety of election day.

2. The second step was to compile a CODEO (UCLA) Incident Report Form for every critical incident reported at the polling station. Critical incidents consist of any evidence of violence, electoral irregularities, suspension of voting, or electoral fraud. (These are specified in detail in A Manual for CODEO Constituency Supervisors, December 7, 2012.) These forms are also identical to those used by CODEO Observers.

3. A third step was to telephone the party representatives interviewed at the polling station after the ballot count had occurred in order to compile data on electoral results at the polling station, in instances where the ballot counting had not already taken place.

We merged the resulting data with an identical dataset collected by official CODEO observers from the sample of 1,292 treated polling stations in the same four regions. This data was collected by CODEO observers as part of their standard operations during the election.

Post-Election Surveys (PES)

The same 300 trained enumerators were deployed to randomly survey approximately 8,000 individual voters on the two days following the election. Enumerators were instructed to survey a total of four individuals in each polling station locality they were assigned; to select the households using a random walk selection method based on the nearest landmark to the polling station as a starting point; to vary respondents by sex within the households; and to randomly select voting age household respondents. Respondents were assured of anonymity and confidentiality. Identifying information was not collected. Respondents were asked a series of questions about the elections and the pre-electoral period in interviews that lasted about 20 minutes. Interviews were conducted in English, Akan, or Ewe (the two main languages used in the four regions we study) depending on the preference of the respondent.

Field Logistics

Hiring and Training of Enumerators

We hired our enumerators through CODEO, which has a broad-based national field infrastructure. The hiring instructions specified various criteria, including a minimum educational level. In the main, the enumerators were teachers. In the week prior to the election, which occurred on a Friday, we provided a day-long training session to each group of enumerators in the region of origin. The training was modeled on the training provided by CODEO to its official observers. The enumerators whom we hired were all granted official observer status by the Election Commission and were provided with appropriate identification permitting them to enter polling places. They were also sworn the same oath to operate impartially and professionally that CODEO observers take.

Field Operations

Operations in each region were supervised by a member of the research team. Because of its size, Ashanti was assigned two team members, who divided the constituencies between them. Enumerators were all directly supervised by one member of the research team working alongside a local Field Assistant.

Data Input

The VIR data were input electronically using data input staff at CODEO. The same staff input the same VIR data for CODEO (i.e. from the treated polling stations). These were input while the research team was still in Ghana, and we were therefore able to take electronic versions of the VIR data when leaving the

country. The household surveys were carried back to the US, where they were scanned and then input using a data input company.

On-Site Adjustments

Random Shocks to Intention to Treat

During field operations, the research team found that the number of treated polling stations was considerably larger than intended at the time the sample selection had been implemented. One consequence of this was that the number of households that enumerators were expected to survey was larger than investigators had anticipated or than enumerators had been hired to survey. The differences were unevenly distributed across regions. The differences encountered are displayed in Table 2.10.

Table 2.10: Statistics on Surveyed Polling Stations

	Region	***Constituency***	***Intended Treatment (IT)***	***Actual Treatment (AT)***	***Difference (AT-IT)***	***Controls (C)***	***Total (AT+C)***
1	Ashanti	Afigya-Sekyere East	29	29	0	10	39
2	Ashanti	Ahafo Ano North	29	29	0	9	38
3	Ashanti	Amansie West	16	16	0	24	40
4	Ashanti	Asante Akim Central	7	8	1	21	29
5	Ashanti	Asante Akim North	7	8	1	22	30
6	Ashanti	Asokwa	17	17	0	26	43
7	Ashanti	Atwima Mponua	22	22	0	34	56
8	Ashanti	Bekwai	38	38	0	12	50
9	Ashanti	Bosomtwe	29	29	0	10	39
10	Ashanti	Ejura-Sekyedumase	29	29	0	9	38
11	Ashanti	Kumawu	16	16	0	5	21
12	Ashanti	Mampong	28	28	0	9	37
13	Ashanti	Manhyia	19	19	0	6	25
14	Ashanti	Manhyia South	28	28	0	9	37
15	Ashanti	Manso Edubia	7	8	1	22	30
16	Ashanti	Nhyiaeso	9	10	1	28	38
17	Ashanti	Obuasi	14	14	0	21	35
18	Ashanti	Odotobri	18	18	0	26	44
19	Ashanti	Offinso North	8	8	0	22	30
20	Ashanti	Offinso South	31	31	0	10	41
21	Ashanti	Oforikrom	13	15	2	40	55
22	Ashanti	Sekyere Afram Plains	6	7	1	10	17
23	Ashanti	Suame	18	18	0	27	45
24	Central	Agona East	9	21	12	26	47
25	Central	Agona West	19	28	9	28	56
26	Central	Ajumako Enyan Essiam	17	25	8	25	50

Table 2.10: Statistics on Surveyed Polling Stations

	Region	***Constituency***	***Intended Treatment (IT)***	***Actual Treatment (AT)***	***Difference (AT-IT)***	***Controls (C)***	***Total (AT+C)***
27	Central	Asikuma Odeben Brakwa	15	22	7	22	44
28	Central	Assin Central	12	20	8	4	24
29	Central	Awutu-Senya	14	21	7	21	42
30	Central	Awutu-Senya East	28	33	5	9	42
31	Central	Cape Coast North	20	27	7	7	34
32	Central	Cape Coast South	7	17	10	22	39
33	Central	Effutu	20	27	7	6	33
34	Central	Hemang Lower Denkyira	9	13	4	13	26
35	Volta	Adaklu	5	7	2	8	15
36	Volta	Akatsi South (Avenor Ave)	13	18	5	19	37
37	Volta	Anlo	21	26	5	7	33
38	Volta	Ho Central	38	46	8	12	58
39	Volta	Ho West	29	31	2	9	40
40	Volta	Hohoe South (Afadjato)	19	32	13	6	38
41	Volta	Keta	8	17	9	23	40
42	Volta	Ketu North	12	18	6	19	37
43	Volta	Krachi East	12	17	5	17	34
44	Volta	Krachi West	10	13	3	14	27
45	Volta	Nkwanta North	6	14	8	19	33
46	Volta	North Dayi	17	23	6	6	29
47	Volta	South Tongu	10	21	11	28	49
48	Western	Amenfi Central	14	18	4	22	40
49	Western	Amenfi East	38	44	6	12	56
50	Western	Amenfi West	13	16	3	20	36
51	Western	Bia East	16	22	6	5	27
52	Western	Bibiani Anhwiaso Bekwai	13	26	13	40	66
53	Western	Ellembele	30	32	2	10	42
54	Western	Jomoro	44	49	5	14	63
55	Western	Mpohor	5	9	4	13	22
56	Western	Prestea Huni-Valley	23	29	6	35	64
57	Western	Sefwi Wiawso	16	20	4	25	45
58	Western	Sekondi	9	11	2	13	24
59	Western	Shama	12	15	3	19	34
60	Western	Wassa East	16	19	3	23	42
	Total		1057	1292	235	1033	2325

Data Collected

The aim had been to collect data using VIR from 1,009 untreated polling stations. Only 760 incident reports were collected, meaning we failed to collect 25 percent of VIR in untreated polling stations.

Critical Incident Forms

Enumerators were instructed to file Critical Incident Forms about any serious irregularities or disruptions to the voting process, using the form represented below. Very few forms were filed. The data collected using these forms thus appeared highly unsystematic, and has not been incorporated into the present dataset.

CODEO (UCLA) INCIDENT REPORT FORM – 07 December 2012 Elections

Observer Name (Number)		**Constituency**	AFIGYA SEKYERE EAST	
Region	ASHANTI	**Electoral Area Name**	AGONA WEST	
Polling Station Name	S D A PRIMARY SCHOOL AGONA NO. 1 (B)		**Polling Station Code**	F350801

Critical Incident(s) – check all that apply

Incidents of Intimidation or Violence

- ☐ A) Intimidation or harassment
- ☐ B) Violence
- ☐ C) Vote buying/bribery
- ☐ D) Stealing of ballot papers
- ☐ E) Stealing of ballot box
- ☐ F) Ballot box stuffing
- ☐ G) Unauthorised person in polling station

Voting Process Incidents

- ☐ H) Not permitted to observe
- ☐ J) Violations of voting procedures
- ☐ K) Eligible voters not permitted to vote
- ☐ M) Ineligible persons allowed to vote
- ☐ N) Polling station ran out of ballot papers
- ☐ P) Voting suspended
- ☐ Q) Polling station closed before 5:00 pm

Counting Process Incidents

- ☐ R) Violations of counting procedures
- ☐ S) Ballots incorrectly counted
- ☐ T) Polling Agents refused to sign declaration
- ☐ U) Copies of results not given to polling agents

Other

- ☐ V) Other (specify)……

In your opinion, how many voters/votes were affected by this incident (if any)?

☐ 1) Many (51 or more) ☐ 2) Some (11 to 50) ☐ 3) Few (1 to 10) ☐ 4) None ☐ 5) Unknown

Detailed explanation
Please provide a brief description of the concrete facts regarding each incident, including **who** participated (their position and affiliation), **what** happened (type of incident), **how** did it happen, and the sequence of events. Indicate other individuals, such as local or international observers or candidates' agents, who also witnessed the incident (and their contact information if possible). Use other side of the form if necessary.

Who did you interview?

- ☐ 1) Party Agent (specify)……..
- ☐ 2) EC Official
- ☐ 3) Security Personnel

Was there an accredited Domestic Election Observer at this Polling Station?

- ☐ 1) Yes
- ☐ 2) No

Start of Interview Time: _____hr _____mins **End of Interview Time:……**

Chapter 3

The VIR (Polling Station Level) Survey and Codebook

Copy of the VIR Survey Instrument

CODEO (UCLA) OBSERVER CHECKLIST – 07 December 2012 Elections

Enumerator Name		**Constituency**	AFIGYA SEKYERE EAST
Region	ASHANTI	**Electoral Area**	AMANGOASE
Polling Station Name	WIAMOASE SAL ARMY JHS	**Polling Station Code**	F353001

ARRIVAL

AA Were any election officials present upon arrival? — Yes (1) | No (2)

SETUP

AB At what time did voting commence? — By 7:15 (1) | 7:16 to 8:00 (2) | 8:01 to 10:00 (3) | After 10:00 (4) | Never Opened (5)

AC Were you permitted to observe? — Yes (1) | No (2)

AD Was the polling station set up so that voters could mark their ballots in secret? — Yes (1) | No (2)

AE Was the polling station accessible to persons with disabilities and the elderly? — Yes (1) | No (2)

AF Was a polling agent present for NDC? — Yes (1) | No (2)

AG Was a polling agent present for NPP? — Yes (1) | No (2)

AH Which other political party agents were present? (*Tick one or more*) — None (0) | CPP (1) | GFP (2) | NDP (3) | GCPP (4) | PNC (5) | PPP (6) | UFP (7) | URP (8) | INDP (9)

AJ Were security personnel present? — Yes (1) | No (2)

AK Which items, if any, were missing (*Tick one or more*) — None (0) | Ballot Box (1) | Ballot Paper (2) | Voters' Register (3) | Indelible Ink (4) | Voting Screen (5) | Validating Stamp (6) | Endorsing Ink (7) | Ink Pad (8) | Tactile Ballot (9)

AM Did the polling station have a biometric verification machine? — Yes (1) | No (2)

AN Number of names on the voters register? *(Enter zero if no voters register)* — [ ][ ][ ][ ]

AP Number of names on the proxy voters list? *(Enter zero if no proxy register)* — [ ][ ][ ][ ]

AQ Number of <u>presidential</u> ballot papers? *(Enter zero if none)* — [ ][ ][ ][ ]

AR Were the presidential and parliamentary ballot boxes shown to be empty, sealed and placed in public view? — Yes (1) | No (2)

VOTING

BA Were people's biometric registration information verified? — Yes (1) | No (2)

BB Did biometric verification machine fail to function properly at any point in time? — Yes (1) | No (2)

BC Were people's fingers marked with indelible ink before voting? — Yes (1) | No (2)

BD Were ballot papers stamped with the validating stamp before being issued? — Yes (1) | No (2)

BE Were any unauthorised person permitted to remain in the polling station during voting? — Yes (1) | No (2)

BF Did anyone attempt to harass or intimidate voters or polling officials during voting? — Yes (1) | No (2)

(For Questions BG, BH, BJ, BK and BM: None = 0, Few = 1 to 5, Some = 6 to 15 and Many = 16 or more)

BG How many people with Voter ID Cards <u>were not permitted to vote</u>? — None (0) | Few (1) | Some (2) | Many (3)

BH How many people <u>were permitted to vote</u> without voter ID cards? — None (0) | Few (1) | Some (2) | Many (3)

BJ How many people were <u>permitted to vote</u> whose names did <u>not</u> appear on the voters' register? — None (0) | Few (1) | Some (2) | Many (3)

BK How many people were <u>permitted to vote</u> whose biometric details did not match? — None (0) | Few (1) | Some (2) | Many (3)

BM How many people were assisted to vote (blind, disabled, elderly, etc)? — None (0) | Few (1) | Some (2) | Many (3)

BN Were assisted voters allowed to have a person of their own choice to assist them to vote? — Yes (0) | No (1) | No Assisted Voters (3)

BP Overall, how would you describe any problems that may have occurred during the voting process? — Major (1) | Minor (2) | None (3)

CLOSING & COUNTING

CA How many people were in queue at 5:00 pm? — None (0) | Few (1) | Some (2) | Many (3)

CB	Was everyone who was in the queue at 5:00 pm permitted to vote?			Yes (1) / No (2)
CC	Was anyone who arrived at the polling station after 5:00 pm permitted to vote?	Yes (1)	No (2)	No One Arrived After 5pm (3)
CD	Did anyone attempt to harass or intimidate polling officials during counting?			Yes (1) / No (2)
CE	Were more ballot papers found in the presidential ballot box than voters who cast ballots?			Yes (1) / No (2)
CF	Did any polling agent request a recount of the presidential ballots?			Yes (1) / No (2)
CG	Did an NDC polling agent sign the declaration of results for the presidential election?	Yes (1)	No (2)	No NDC Agent Present (3)
CH	Did an NPP polling agent sign the declaration of results for the presidential election?	Yes (1)	No (2)	No NPP Agent Present (3)
CJ	Did any other polling agent present sign the declaration of results for the presidential election?	Yes (1)	No (2)	No Other Agents Present (3)
CK	Do you agree with the vote count for the presidential election?			Yes (1) / No (2)
CM	Did all polling agents present sign the declaration of results for the parliamentary election?			Yes (1) / No (2)
CN	Do you agree with the vote count for the parliamentary election?			Yes (1) / No (2)

PRESIDENTIAL VOTE COUNT

DA	Spoilt ballot papers	**DH**	UFP (Akwasi Addai Odike)
DB	Rejected ballot papers	**DJ**	PNC (Ayariga Hassan)
DC	Total Valid Votes	**DK**	CPP (Michael Abu Sakara Forster)
DD	NDC (John Dramani Mahama)	**DM**	INDP (Jacob Osei Yeboah)
DE	GCPP (Henry Hebert Lartey)		
DF	NPP (Nana Addo Dankwa Akufo-Addo)		
DG	PPP (Papa Kwesi Ndoum)		

Who was interview

☐ 1) Party Agent (specify)……..
☐ 2) EC Official
☐ 3) Security Personnel

Enumerator First Name _____ Surname _____ Arrival Time _____ Departure Time _____ Signature _____

Codebook for the VIR Survey

Explanation for Multiple Versions of Each Variable

The procedures used for data collection generated multiple versions of most variables in this dataset. The variables are labelled as follows:

varlabel: Data collected by either a CODEO observer at treated polling stations or by a UCLA enumerator at control polling stations, where the responses collected by the latter were either from a single party official or from two party officials and was identical;

varlabel1: Response collected by a CODEO observer at treated polling stations or by UCLA enumerator from the first party official surveyed at control polling stations;

varlabel2: Response collected by a UCLA enumerator from the second party official surveyed at control polling stations;

varlabel_ diff: Dummy variable indicating whether the responses at control polling stations collected from two party officials differed (1 =difference; 0 =no difference).

Variables

Setup Variables

regionname_ec

Label/Question: Region Name

Value Labels: ASHANTI (1), CENTRAL (2), VOLTA (3), WESTERN (4).

constituency

Label/Question: Constituency Name

Type: String

electoralarea

Label/Question: Electoral Area

Type: String.

districtname_ec

Label/Question: District Name

Type: String.

pollingstationname

Label/Question: Polling Station Name

Type: String.

pscode

Label/Question: Polling Station Code

Type: String. Note: Use this variable to merge VIR and ASHANTI datasets.

eop, eop1, eop2, eop_diff

Label: Election Official Present

Question code: AA

Question: Were any election officials present upon arrival?

Response: No (0), Yes (1).

psopen, psopen1, psopen2, psopen_diff

Label: Time Voting Commenced Question code: AB

Question: At what time did voting commence?

Response: By 7:15 (0), 7:16 to 8:00 (1), 8:01 to 10:00 (2), After 10:00 (4), Never Opened (5).

permit, permit1, permit2, permit_diff

Label: Observer (Party Agent) Permitted to Observe

Question code: AC

Question: Were you permitted to observe?

Response: No (0), Yes (1).

secretballot, secretballot1, secretballot2, secretballot_diff

Label: Polling Station Set Up to Ensure Ballot Secrecy

Question code: AD

Question: Was the polling station set up so that voters could mark their ballots in secret?

Response: No (0), Yes (1).

paccess, paccess1, paccess2, paccess_diff

Label: Accessibility of Polling Station to PWD and Elderly

Question code: AE

Question: Was the polling station accessible to persons with disabilities and the elderly?

Response: No (0), Yes (1).

ndcagent, ndcagent1, ndcagent2, ndcagent_diff

Label: NDC Agent Present

Question code: AF

Question: Was a polling agent present for NDC?

Response: No (0), Yes (1).

nppagent, nppagent1, nppagent2, nppagent_diff

Label: NPP Agent Present

Question code: AG

Question: Was a polling agent present for NPP?

Response: No (0), Yes (1).

otheragents, otheragents1, otheragents2, otheragents_diff

Label: Party Agents Present

Question code: AH

Question: Were there other political party agents present?

Response: No (0), Yes (1).

Note: This is different from the question AH in the original survey that asks "Which other political party agents were present? (thick more than one)"

Original Survey Response: None (0), CPP (1), GFP (2), NDP (3), GCPP (4), PNC (5), PPP (6), UFP (7), URP (8), INDP (9).

security, security1, security2, security_diff

Label: Security Personnel Present

Question code: AJ

Question: Were security personnel present?

Response: No (0), Yes (1).

missing, missing1, missing2, missing_diff

Label: Missing Election Materials

Question code: AK

Response: No (0), Yes (1).

Original Survey Question: Which items, if any, were missing? (thick more than one)
Original Survey Response: None (0), Ballot Box (1), Ballot Paper (2), Voters' Register (3), Indelible Ink (4), Voting Screen (5), Validating Stamp (6), Endorsing Ink (7), Ink Pad (8), Tactile Ballot (9).

vmachine, vmachine1, vmachine2, vmachine_diff

Label: Biometric Verification Machine Present
Question code: AM
Question: Did the polling station have a biometric verification machine?
Response: No (0), Yes (1).

voters_reg, voters_reg1, voters_reg2, voters_reg_diff

Label: Number of Voters on Register
Question code: AN
Question: Number of names on the voters register? (Enter zero if no voters register)
Type: numeric.

proxy_voters, proxy_voters1, proxy_voters2, proxy_voters_diff

Label: Number of Voters on Proxy List
Question code: AP
Question: Number of names on the proxy voters list? (Enter zero if no proxy register)
Type: numeric.

pres_ballots, pres_ballots1, pres_ballots2, pres_ballots_diff

Label: Number of Presidential Ballot Papers
Question code: AQ
Question: Number of presidential ballot papers? (Enter zero if none)
Type: numeric.

empty_ballotbox, empty_ballotbox1, empty_ballotbox2, empty_ballotbox_diff

Label: "Ballot boxes shown to be empty in public view"
Question code: AR
Question: Were the presidential and parliamentary ballot boxes shown to be empty, sealed and placed in public view?
Response: No (0), Yes (1).

Voting Variables

voter_verified, voter_verified1, voter_verified2, voter_verified_diff

Label: Voters' biometric registration information verified

Question code: BA

Question: Were people's biometric registration information verified?

Response: No (0), Yes (1).

vmachine_break, vmachine_break1, vmachine_break2, vmachine_break_diff

Label: Machine Malfunction

Question code: BB

Question: Did biometric verification machine fail to function properly at any point in time?

Response: No (0), Yes (1).

vinked, vinked1, vinked2, vinked_diff

Label: Voters marked with indelible ink

Question code: BC

Question: Were people's fingers marked with indelible ink before voting?

Response: No (0), Yes (1).

bstamp, bstamp1, bstamp2, bstamp_diff

Label: Ballot papers validated with EC stamp

Question code: BD

Question: Were ballot papers stamped with the validating stamp before being issued?

Response: No (0), Yes (1).

unauthorized, unauthorized1, unauthorized2, unauthorized_diff

Label: Unauthorized persons allowed to remain at station

Question code: BE

Question: Were any unauthorized person permitted to remain in the polling station during voting?

Response: No (0), Yes (1).

eovharass, eovharass1, eovharass2, eovharass_diff

Label: Harassment or Intimidation of Election Officials and Voters

Question code: BF

Question: Did anyone attempt to harass or intimidate voters or polling officials during voting?

Response: No (0), Yes (1).

vid_denied, vid_denied1, vid_denied2, vid_denied_diff

Label: Voters with ID not permitted to vote

Question code: BG

Question: How many people with Voter ID Cards were not permitted to vote?

Response: None (0), Few (1), Some (2), Many (3).

Note: additional instructions given to enumerators — None = 0, Few = 1 to 5, Some = 6 to 15 and Many = 16 or more.

vid_denied, vid_denied1, vid_denied2, vid_denied_diff

Label: Voters with ID not permitted to vote

Question code: BG

Question: How many people with Voter ID Cards were not permitted to vote?

Response: None (0), Few (1), Some (2), Many (3).

Note: additional instructions given to enumerators — None = 0, Few = 1 to 5, Some = 6 to 15 and Many = 16 or more.

noid_permit, noid_permit1, noid_permit2, noid_permit_diff

Label: Voters with no ID permitted to vote

Question code: BH

Question: How many people were permitted to vote without voter ID cards?

Response: None (0), Few (1), Some (2), Many (3).

Note: additional instructions given to enumerators — None = 0, Few = 1 to 5, Some = 6 to 15 and Many = 16 or more.

vnr_permit, vnr_permit1, vnr_permit2, vnr_permit_diff

Label: Voters not on register permitted to vote

Question code: BJ

Question: How many people were permitted to vote whose names did not appear on the voters' register?

Response: None (0), Few (1), Some (2), Many (3).

Note: additional instructions given to enumerators — None = 0, Few = 1 to 5, Some = 6 to 15 and Many = 16 or more.

bio_not_match, bio_not_match1, bio_not_match2, bio_not_match_diff

Label: Voters allowed to vote whose biometric detail did not match

Question code: BK

Question: How many people were permitted to vote whose names did not appear on the voters' register?

Response: None (0), Few (1), Some (2), Many (3).

Note: additional instructions given to enumerators — None = 0, Few = 1 to 5, Some = 6 to 15 and Many = 16 or more.

vassisted, vassisted1, vassisted2, vassisted_diff

Label: Number of persons assisted to vote

Question code: BM

Question: How many people were assisted to vote (blind, disabled, elderly, etc)?

Response: None (0), Few (1), Some (2), Many (3).

Note: additional instructions given to enumerators — None = 0, Few = 1 to 5, Some = 6 to 15 and Many = 16 or more.

pwd_choice, pwd_choice1, pwd_choice2, pwd_choice_diff

Label: Persons with disability allowed own assistant

Question code: BN

Question: Were assisted voters allowed to have a person of their own choice to assist them to vote?

Response: No (0), Yes (1), No Assisted Voters (.a)

Note: original coding in survey was Yes (0), No (1), No Assisted Voters (2).

vprocess_problem, vprocess_problem1, vprocess_problem2, vprocess_problem_diff

Label: Observer (Party Agent) assessment of voting process problems

Question code: BP

Question: Overall, how would you describe any problems that may have occurred during the voting process?

Response: None (0), Minor (1), Major (2).

Note: original coding in survey was Major (1), Minor (2), None (3).

Closing & Counting Variables

vqueue5pm, vqueue5pm1, vqueue5pm2, vqueue5pm_diff

Label: Voters in queue at 5pm

Question code: CA

Question: How many people were in queue at 5:00 pm?

Response: None (0), Few (1), Some (2), Many (3).

Note: Additional Instructions given to enumerators — None = 0, Few = 1 to 5, Some = 6 to 15 and Many = 16 or more.

vat5_permit, vat5_permit1, vat5_permit2, vat5_permit_diff

Label: Voters in queue at 5pm permitted to vote

Question code: CB

Question: Was everyone who was in the queue at 5:00 pm permitted to vote?

Response: No (0), Yes (1).

vafter5_permit, vafter5_permit1, vafter5_permit2, vafter5_permit_diff

Label: Voters in queue at 5pm permitted to vote

Question code: CC

Question: Was anyone who arrived at the polling station after 5:00 pm permitted to vote?

Response: No(0), Yes (1), No one Arrived After 5pm (.a)

eointimidate_count, eointimidate_count1, eointimidate_count2, eointimidate_count_diff

Label: Voters in queue at 5pm permitted to vote

Question code: CD

Question: Did anyone attempt to harass or intimidate polling officials during counting?

Response: No (0), Yes (1).

pres_overvoting, pres_overvoting1, pres_overvoting2, pres_overvoting_diff

Label: More ballot papers found in presidential ballot box than cast

Question code: CE

Question: Were more ballot papers found in the presidential ballot box than voters who cast ballots?

Response: No (0), Yes (1).

rrecount, rrecount1, rrecount2, rrecount_diff

Label: Polling Agents request for recount of presidential ballots

Question code: CF

Question: Did any polling agent request a recount of the presidential ballots?

Response: No (0), Yes (1).

ndc_sign, ndc_sign1, ndc_sign2, ndc_sign_diff

Label: NDC Agent signs declaration of presidential results

Question code: CG

Question: Did an NDC polling agent sign the declaration of results for the presidential election?

Response: No (0), Yes (1), No NDC Agent Present (.a)

Original survey responses: Yes (1), No (2), No NDC Agent Present (3).

npp_sign, npp_sign1, npp_sign2, npp_sign_diff

Label: NPP Agent signs declaration of presidential result

Question code: CH

Question: Did an NPP polling agent sign the declaration of results for the presidential election?

Response: No (0), Yes (1), No NPP Agent Present (.a)

Original survey responses: Yes(1), No(2), No NPP Agent Present (3).

agents_sign, agents_sign1, agents_sign2, agents_sign_diff

Label: Other party agents sign declaration of presidential results

Question code: CJ

Question: Did any other polling agent present sign the declaration of results for the presidential election?

Response: No (0), Yes (1), No Other Agents Present (.a)

Original survey responses: Yes(1), No(2), No Other Agents Present (3).

agree_prescount, agree_prescount1, agree_prescount2, agree_prescount_diff

Label: Observer (Agent) agrees with presidential vote count

Question code: CK

Question: Do you agree with the vote count for the presidential election?

Response: No (0), Yes (1).

agents_sign_parl, agents_sign_parl1, agents_sign_parl2, agents_sign_parl_diff

Label: Agents present sign parliamentary results

Question code: CM

Question: Did all polling agents present sign the declaration of results for the parliamentary election?

Response: No (0), Yes (1).

agree_parlcount, agree_parlcount1, agree_parlcount2, agree_parlcount_diff

Label: Agents present sign parliamentary results

Question code: CN

Question: Do you agree with the vote count for the parliamentary election?

Response: No (0), Yes (1).

Presidential Vote Count Variables

spoiltballot, spoiltballot1, spoiltballot2, spoiltballot_diff

Label: Number of Spoilt Ballot Papers

Question code: DA

Question: Spoilt ballot papers

Type: Numeric.

rejectballot, rejectballot1, rejectballot2, rejectballot_diff

Label: Number of Rejected Ballot

Question code: DB

Question: Rejected ballot papers

Type: Numeric.

validvotes, validvotes1, validvotes2, validvotes_diff

Label: Total Valid Votes

Question code: DC

Question: Total Valid Votes

Type: Numeric.

NDC, NDC1, NDC2, NDC_diff

Label: Votes for NDC (John Dramani Mahama)

Question code: DD

Question: NDC (John Dramani Mahama)

Type: Numeric.

GCPP, GCPP1, GCPP2, GCPP_diff

Label: Votes for GCPP (Henry Herbert Lartey)

Question code: DE

Question: GCPP (Henry Hebert Lartey)

Type: Numeric.

NPP, NPP1, NPP2, NPP_diff

Label: Votes for NPP (Nana Addo Dankwa Akufo-Addo)

Question code: DF

Question: NPP (Nana Addo Dankwa Akufo- Addo)

Type: Numeric.

PPP, PPP1, PPP2, PPP_diff

Label: Votes for Papa Kwesi Nduom

Question code: DG

Question: PPP (Papa Kwesi Ndoum)

Type: Numeric.

UFP, UFP1, UFP2, UFP_diff

Label: Votes for UFP (Akwasi Addai Odike)

Question code: DH

Question: UFP (Akwasi Addai Odike)

Type: Numeric.

PNC, PNC1, PNC2, PNC_diff

Label: Votes for PNC (Ayariga Hassan)

Question code: DJ

Question: PNC (Ayariga Hassan)

Type: Numeric.

CPP, CPP1, CPP2, CPP_diff

Label: Votes for CPP (Michael Abu Sakara Forster)

Question code: DK

Question: CPP (Michael Abu Sakara Forster)

Type: Numeric.

INDP, INDP1, INDP2, INDP_diff

Label: Votes for Independent Candidate (Jacob Osei Yeboah)

Question code: DM

Question: INDP (Jacob Osei Yeboah)

Type: Numeric.

Additional Variables

eacode

Label: Electoral Area Code

Type: String.

electoralarea

Label: Electoral Area

Type: String

competition

Label: Competitive (constituency level blocking variable)

Value Labels: Stronghold(0), Competitive(1).

Note: A constituency is defined as competitive if the vote margin between the top two presidential candidates in 2008 was less than 10 percent. It is defined as a stronghold if the vote margin is higher than 10 percent.

ea_observers

Label: Number of observers Present in Electoral Area

Definition: Total Number of Observers present in Electoral Area.

Type: Numeric.

margin

Label: Parliamentary Electoral Margin, 2008 (Constituency level).

Definition: Vote margin between the top two candidates in the 2008 Parliamentary Elections at the constituency level.

Type: Numeric.

obs_ea

Label: At least one observer in EA

Definition: At least one observer is present in Electoral Area.

Value Labels: No (0), Yes(1).

observer

Label: Election Observer Present (Treatment Condition)

Value Labels: No (0), Yes (1).

Note: Variable observer defines polling stations that were subject to Treatment or Control.

sat

Label: Saturation Rate (Constituency level)

Value Labels: Low (.30), Medium (.50), High (.80).

stationdensity

Label: Density (constituency level blocking variable)

Value Labels: Rural (0), Urban (1)

Chapter 4

The PES (Voter) Survey and Codebook

Copy of the PES Survey Instrument

Observer Name (Number)		**Constituency**			
Region		**Electoral Area Name**			
Polling Station Name			**Polling Station Code**		
Respondent ID Number		**Sex?**	Male (0)	Female (1)	

Please list names of each member of this household who are over age 18. Do not write the full name, just first name and initial: "John K." After listing the names, follow the procedure to select a respondent.

Household Names (over age 18 only)	1	2	3	4	5	6	7	8
Men								
Women								

Q3. How old are you? Age_____

Q4. What is your tribe? You know, your ethnic or cultural group? *[Do NOT read options. Code from response]*

Akan- Ashanti	0	Ga/Adangbe	6
Akan- Fante	1	Ewe/Anglo	7
Akan- Akyem	2	Ghanaian only or "doesn't think of self in those terms"	8
Akan- Akwapem /Kwahu	3	Don't know	999
Akan- Nzema	4	Other [Specify:]	10
Akan- Other	5	Refused to answer	11

Q5. What is the highest level of education you have completed? *[Code from answer. Do not read options]*

No formal schooling	0	Post-secondary qualifications, other than university e.g. polytechnic/college	6
Informal schooling only (including Koranic)	1	Some university	7
Some primary schooling	2	University completed	8
Primary school completed	3	Post-graduate	9
Some secondary school / high school	4	Don't know *[Do not read]*	999
Secondary school / high school completed	5		

Q6. How often have you gone without the following in the past year?	Never	Occasionally	Most of the time	Don't know *[DNR]*
A. Cash income	0	1	2	999
B. Sufficient food	0	1	2	999
C. Medicine	0	1	2	999
D. Electricity	0	1	2	999

	Yes	No
Q7. Do you or anyone in this household receive the LEAP cash transfers?	1	0

Interviewer: NOW LET'S TALK ABOUT THE JUST ENDED ELECTIONS

	No	Yes	Don't know *[DNR]*
Q8A Did you vote in the just ended elections?	0	1	999

Q8B. (If No to Q8A) What was your reason for not voting?

Not registered	1	Prevented to vote at polling station	5
Did not have time to vote	2	Prevented to vote by political party worker	6
Could not find polling station	3	Other reason: (specify)	7
Scared to vote	4	Don't know/Refuse to answer	999

	No	Yes	Don't know *[DNR]*
Q8C. (If Yes to 8A) Did you vote at the polling station on your voter ID card?	0	1	999

Q8D. (If No to Q8C) Why not?

Told to vote at an alternative station	1	Polling station on ID card is far away	3
Went to nearer polling station within local area	2	Transferred my vote	4

Q8E: What was the polling station you voted at: (Region, Constituency, Polling station code:)

Q9. On the whole, how would you rate the freeness and fairness of the just ended elections?

Completely free and fair	1	Not free and fair	4
Free and fair with minor problems	2	Don't know	5
Free and fair with major problems	3	Refused	6

Q10. How likely do you think that persons affiliated with political parties or party officials can find out how you voted in the just ended elections?

Not at all likely	1	Likely	4
Not very likely	2	Very likely	5
Somewhat	3	Don't know	6

	No	Yes	Don't know *[DNR]*
Q10B. Did you see people displaying any political party paraphernalia INSIDE the polling station?	0	1	999

INTERVIEWER READS *[In elections around the world, voters report experiencing or witnessing violence, disorder or irregularities in or around their polling stations during elections. In the following set of question, I am going to ask about your experience in the just ended election.]*

	No	Yes	Don't know *[DNR]*
Q11. Did you hear of or witness any incidents of violence in or around your polling station during the Elections?	0	1	999

Interviewer reads: *Now I want to ask more specifics. I will first ask about your experiences inside the polling station, then about what happened outside.*

Thinking about the just ended elections INSIDE your polling station:	No	Yes	Don't know *[DNR]*
Q12A. Do you suspect that underage people voted at your polling station?	0	1	999
Q12B. Do you suspect that foreigners voted at your polling station?	0	1	999
Q12C. About how many underage people and foreigners do you think voted at your polling station?			

None (0)	**Few (1-5)**	**Some (6-15)**	**Many (16 or more)**	**Don't know [DNR]**
0	1	2	3	999

Did you witness any of the following INSIDE your polling station?	No	Yes	Don't know *[DNR]*
Q13A. Interfering or tampering of the ballot box?	0	1	999

Q13B: (If Yes to 13A.) Who did you witness tampering with the ballot box? [*Check all that apply*]

Agents of the NPP at the polling station	0	Macho-men/Thugs	5
Agents of the NDC at the polling station	1	Ordinary citizens	6
NPP community activists	2	Security Personnel	7
NDC community activists	3	Don't Know/Could not tell	999
Community activist from another party	4	Refused	9

Thinking about the just ended elections INSIDE your polling station: did you witness:	No	Yes	Don't know
Q14A. Verbal attack or intimidation of any individual?	0	1	999
Q14B. (If Yes to 12A). Did anyone verbally attack or intimidate you personally?	0	1	999
Q14C. (If Yes to 12A). Roughly how many people in total do you think were affected?			

None (0)	**Few (1-5)**	**Some (6-15)**	**Many (16 or more)**	**Don't know [DNR]**
0	1	2	3	999

Q14D: (If Yes to 14A.) Who did you witness verbally attacking/using intimidation? [*Check all that apply*]

Agents of the NPP at the polling station	0	Macho-men/Thugs	5
Agents of the NDC at the polling station	1	Ordinary citizens	6
NPP community activists	2	Security Personnel	7
NDC community activists	3	Don't Know/Could not tell	999
Community activist from another party	4	Refused	9

Did you witness any of the following INSIDE your polling station?	No	Yes	Don't Know
Q15A. Physical attack against any individual or group, or a physical fight?	0	1	999
Q15B. (If Yes to 12A). Did anyone physically attack or fight you personally?	0	1	999
Q15C. (If Yes to 12A). Roughly how many people in total do you think were affected?			

None (0)	**Few (1-5)**	**Some (6-15)**	**Many (16 or more)**	**Don't know [DNR]**
0	1	2	3	999

Q15D: (If Yes to 15A.) Who did you witness physically attacking or fighting? [*Check all that apply*]

Agents of the NPP at the polling station	0	Macho-men/Thugs	5
Agents of the NDC at the polling station	1	Ordinary citizens	6
NPP community activists	2	Security Personnel	7
NDC community activists	3	Don't Know/Could not tell	999
Community activist from another party	4	Refused	9

Did you witness or hear of the following in your local community BEFORE ELECTION DAY (not on the day of the elections)?	No	Yes	Don't know *[DNR]*
Q16A. Verbal attack of any individual related to the election?	0	1	999
Q16B. Physical attack of any individual related to the election?	0	1	999
Q16C. (If Yes to 16A). Roughly how many people do you think were verbally attacked?			

None (0)	**Few (1-5)**	**Some (6-15)**	**Many (16 or more)**	**Don't know [DNR]**
0	1	2	3	999

Q16D. (If Yes to 16B). Roughly how many people do you think were physically attacked?

None (0)	**Few (1-5)**	**Some (6-15)**	**Many (16 or more)**	**Don't know [DNR]**
0	1	2	3	999

Q16E: (If Yes to 16A or B.) Who were the main perpetrators of the violent incidents outside the polling station BEFORE ELECTION DAY?

		Macho-men/Thugs	5
		Ordinary citizens	6
NPP community activists	2	Security Personnel	7

NDC community activists	3	Don't Know/Could not tell	999
Community activist from another party	4	Refused	9

Did you witness or hear of the following in your local community ON ELECTION DAY?	No	Yes	Don't know *[DNR]*
Q17A. Verbal attack of any individual?	0	1	999
Q17B. Physical attack of any individual?	0	1	999

Q17C. (If Yes to 17A). Roughly how many people in total do you think were verbally attacked?

None (0)	Few (1-5)	Some (6-15)	Many (16 or more)	Don't know [DNR]
0	1	2	3	999

Q17D. (If Yes to 17B). Roughly how many people in total do you think were physically attacked?

None (0)	Few (1-5)	Some (6-15)	Many (16 or more)	Don't know [DNR]
0	1	2	3	999

Q17E: (If Yes to 17A or B.) Who in your opinion were the main perpetrators of the violent incidents outside the polling station ON ELECTION DAY, if any?

Agents of the NPP at the polling station	0	Macho-men/Thugs	5
Agents of the NDC at the polling station	1	Ordinary citizens	6
NPP community activists	2	Security Personnel	7
NDC community activists	3	Don't Know/Could not tell	999
Community activist from another party	4	Refused	9

Q18: How many of the following groups of people in this community do you think did not vote because they were scared of violence?

	None	Some of them	Most of them	All of them	Don't know
All voters	0	1	2	3	999
Women	0	1	2	3	999
NDC supporters	0	1	2	3	999
NPP supporters	0	1	2	3	999
Those living in poverty	0	1	2	3	999

	No	Yes	Don't know
Q19. Was anyone in your community injured as a result of violence during this election?	0	1	999
Q20. Did anyone die in your community as a result of violence during this election?	0	1	999

	No	Yes	Don't know
Q21. Did you see any independent election observers in the polling station where you voted?	0	1	999
Q22. Did you see any independent election observers in other polling stations within this community?	0	1	999

Q23: How would you rate elections observers' performance in the following areas?

	Excellent	Good	Fair	Poor	Don't know
A. Deterring election fraud	0	1	2	3	999
B. Ensuring free and fair elections	0	1	2	3	999
C. Preventing violence	0	1	2	3	999
D. Enhancing credibility of the electoral process	0	1	2	3	999

	A: NPP			B: NDC			C. Any Other Party		
	No	Yes	Refused	No	Yes	Refused	No	Yes	Refused
Q24: Did any political party agents come to your place of residence to encourage you to vote for their party?	0	1	9	0	1	9	0	1	9
Q25: Have you seen the candidate for MP of this constituency from the following parties at a rally or any other event during the current elections?	0	1	9	0	1	9	0	1	9
Q26: Did you witness any of these parties distributing items such as money, food, fertilizer, or cell phones to voters in your area during the election?	0	1	9	0	1	9	0	1	9
Q27: Did you worry that you might lose some benefits or privileges or a job if you do not support a particular candidate or party?	0	1	9	0	1	9	0	1	9
Q28. Did you feel pressure from members of your village or community to vote for any of the following parties?	0	1	9	0	1	9	0	1	9
Q29. If you do not vote for the following parties, will your community lose access to public services such as education, electricity, or health care?	0	1	9	0	1	9	0	1	9
Q30. Did you feel pressure from the CHIEF in your area to vote for one of the following parties?	0	1	9	0	1	9	0	1	9
Q31. Did you feel pressure from a RELIGIOUS LEADER to vote for one of the following parties?	0	1	9	0	1	9	0	1	9
Q32. Did you feel pressure from someone in your household to vote for one of the following parties?	0	1	9	0	1	9	0	1	9

Q32. When the following parties gave voters cash in your village or community during this election, about how much do they usually give?

A. NPP	
B. NDC	

Q33. Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY?

	Cash	Food	Technology Product	Fertilizer	Bicycle	Clothing	Other
A. NPP	1	2	3	4	5	6	
B. NDC	1	2	3	4	5	6	
C. Other	1	2	3	4	5	6	

Q34. Did you personally receive any of the following from candidates or agents from the following parties ON ELECTION DAY OR THE DAY BEFORE?

	Cash	Food	Technology Product	Fertilizer	Bicycle	Clothing	Other
A. NPP	1	2	3	4	5	6	
B. NDC	1	2	3	4	5	6	
C. Other	1	2	3	4	5	6	

Q35. If you received cash, how much money did you receive from each of the parties that you received money from before and on election day?

	WEEKS BEFORE ELECTION DAY?	ON ELECTION DAY OR THE DAY BEFORE?
A. NPP		
B. NDC		
C. Other		

Q36: How would you rate the NDC government's performance in the following areas?	**Excellent**	**Good**	**Fair**	**Poor**	**Don't know**
Delivering public services to your community	0	1	2	3	999
Helping the national economy	0	1	2	3	999
Improving your family's economic situation	0	1	2	3	999
Providing peace and security	0	1	2	3	999
Helping the poor	0	1	2	3	999
Managing the country's new oil revenues	0	1	2	3	999
Q31: How would you rate your incumbent MP's performance in the following areas?	**Excellent**	**Good**	**Fair**	**Poor**	**Don't know**
Delivering public services to your community	0	1	2	3	999
Helping the national economy	0	1	2	3	999
Improving your family's economic situation	0	1	2	3	999
Providing peace and security	0	1	2	3	999
Helping the poor	0	1	2	3	999
Managing the country's new oil revenues	0	1	2	3	999
Q32: How well do you think an NPP government would handle the following areas?	**Excellent**	**Good**	**Fair**	**Poor**	**Don't know**
Delivering public services to your community	0	1	2	3	999
Helping the national economy	0	1	2	3	999
Improving your family's economic situation	0	1	2	3	999
Providing peace and security	0	1	2	3	999
Helping the poor	0	1	2	3	999
Managing the country's new oil revenues	0	1	2	3	999

	Q33.In 2008, which party's presidential candidate did you vote for?	**Q34. In 2008, which party's parliamentary candidate did you vote for?**	**Q35. In the just ended elections, which party's presidential candidate did you vote for?**	**Q36. In the just ended elections, which party's parliamentary candidate did you vote for?**
CPP	0	0	0	0
NDC	1	1	1	1
NPP	2	2	2	2
PNC	3	3	3	3
PPP			4	4
NDP			4	4
DPP	5	5	5	5
Other:	6	6	6	6
Refused/DK	999	999	999	999

	No	Yes
Q37. If you voted in the just ended elections, do you still have the ink mark on your finger? Please show me the mark.	0	1

F1: End time of interview: ……/……. [*Use 24 hr. clock*]

Q38. What was the primary language used for the interview?			
English	0	Hausa	4
Akan	1	Dagbani	5
Ewe	2	Other	6
Ga/Dangme	3		
Q39. Type of shelter			
Formal house	0	Mud	3
Concrete permanent structure	1	Hostel	4
Concrete and mud	2		

Codebook for the PES Survey

Variables

Identification Variables

pscode

Label: polling station code

Type: String.

Individual Characteristics Variables

gender

Label: Voter's gender

Question: Sex?

Response: Male (0), Female (1).

age

Label: Voter's age

Question code: Q3

Question: How old are you?

Type: Numeric.

q4_tribe

Label: Voter's tribe

Question code: Q4

Question: What is your tribe? You know, your ethnic or cultural group?

Response: Akan−Ashanti (0), Akan−Fante (1), Akan−Akyem (2), Akan−AkwapemKwahu (3), Akan−Nzema (4), Akan−Other (5) Ga/Adangbe (6) Ewe/Anglo (7), Ghanaian only or does not think of self in those terms (8), Other (10), Refused to Answer (11), Don't know (999).

Note: Instructions to enumerators — Do NOT read options. Code from response.

q5_education

Label: Voter's education level

Question code: Q5

Question: What is the highest level of education you have completed?

Response: No formal education (0), Informal schooling only (including koranic) (1), Some primary schooling (2), Primary school completed (3), Some secondary/high school (4), Secondary school/high school completed (5), Post-secondary (6), Some university (7), University completed (8), post-graduate (9), Don't know (999). Note: Instructions to enumerators — Code from answer. Do not read options.

q6a_cash_income

Label: How often voter has gone without cash income

Question code: Q6A

Question: How often voter has gone without cash income in the past year?

Response: Never (0), Occasionally (1), Most of the time (2), Don't know [DNR] (999).

q6b_sufficient_food

Label: How often voter has gone without sufficient food?

Question code: Q6B

Question: How often voter has gone without sufficient food in the past year?

Response: Never (0), Occasionally (1), Most of the time (2), Don't know [DNR] (999).

q6c_medicine

Label: How often voter has gone without medicine?

Question code: Q6C

Question: How often voter has gone without medicine in the past year?

Response: Never (0), Occasionally (1), Most of the time (2), Don't know [DNR] (999).

q6d_electricity

Label: How often voter has gone without electricity?

Question code: Q6D

Question: How often voter has gone without electricity in the past year? Response: Never (0), Occasionally (1), Most of the time (2), Don't know [DNR] (999).

q7_leap

Label: Does voter receive LEAP

Question code: Q7

Question: Do you or anyone in this household receive the LEAP cash transfers?

Response: No (0), Yes (1).

2012 Elections Variables

q8_vote

Label: Did voter vote?

Question code: Q8A

Question: Did you vote in the just ended elections?

Response: No (0), Yes (1), Don't know (999).

q8b_why_not_voted

Label: Reason voter did not vote in election

Question code: Q8B

Question: What was your reason for not voting?

Response: Not registered (1), Did not have time to vote (2), Could not find polling station (3), Scared to vote (4), Prevented to vote at polling station (5), Prevented to vote by party worker (6), Other (7), Don't know/Refuse to Answer (999).

Note: This question was asked if response to Q8a was No (0).

q8c_voted_at_own_station

Label: Did voter cast vote at station on his or her ID?

Question code: Q8C

Question: Did you vote at the polling station on your voter ID card?

Response: No (0), Yes (1), Don't know (999).

Note: This question was asked if response to Q8A was Yes (1).

q8d_why_voted_elsewhere

Label: Why voter voted elsewhere

Question code: Q8D

Question: Why not?

Response: Told to vote at an alternative station (1), Went to nearer polling station within local area (2), Polling station on ID card is far away (3), Transferred my vote (4).

Note: This question was asked if response to Q8c was No (0).

q8e_voter_psname

Label: Name of voter's polling station

Question code: Q8E

Question: What was the polling station you voted at: (Region, Constituency, Polling station code:)
Response: Region, Constituency, Polling station code.
Type: String.

q9_free_and_fair

Label: How Free and Fair was 2012 election
Question code: Q9
Question: On the whole, how would you rate the freeness and fairness of the just ended elections?
Response: Completely free and fair (1), Free and fair with minor problems (2), Free and fair with major problems (3), Not free and fair (4), Don't know (5), Refused (6).

q10_secret_ballot

Label: Was ballot secret from party officials
Question code: Q10
Question: How likely do you think that persons affiliated with political parties or party officials can find out how you voted in the just ended elections?
Response: Not at all likely (1), Not very likely (2), Somewhat (3), Likely (4), Very likely (5), Don't know (6).

q10b_party_symbols_at_station

Label: Was there display of party symbols at station
Question code: Q10B
Question: Did you see people displaying any political party paraphernalia INSIDE the polling station?
Response: No (0), Yes (1), Don't know (999).

q11_viol1

Label: Voter heard or witness violence incident around polling station
Question code: Q11
Question: Did you hear of or witness any incidents of violence in or around your polling station during the Elections?
Response: No (0), Yes (1), Don't know (999).
Note: Instructions given to Enumerators — Interviewer reads before asking question: [In elections around the world, voters report experiencing or witnessing violence, disorder or irregularities in or around their polling stations during elections. In the following set of question, I am going to ask about your experience in the just ended election.]

q12a_underage_vote1

Label: Voter suspect under age voters were permitted at her/his station

Question code: Q12A

Question: Do you suspect that underage people voted at your polling station?

Response: No (0), Yes (1), Don't know (999).

Note: Instructions given to Enumerators — Interviewer reads before asking question: Now I want to ask more specifics. I will first ask about your experiences inside the polling station, then about what happened outside. Thinking about the just ended elections INSIDE your polling station.

q12b_foreign_voters

Label: Voter suspect foreigners voted at station

Question code: Q12B

Question: Do you suspect that underage people voted at your polling station?

Response: No (0), Yes (1), Don't know (999).

q12c_no_ineligible_voters

Label: Suspected number of unqualified voters at own polling station

Question code: Q12C

Question: About how many underage people and foreigners do you think voted at your polling station?

Response: None (0), Few (1), Some (2), Many(3).

Note: Instruction given to enumerators — None (0), Few (1-5), Some (6-15), Many (16 or more).

q13a_ballotbox_tamper

Label: interfering or tampering of the ballot box at polling station

Question code: Q13A

Question: Interfering or tampering of the ballot box?

Response: No (0), Yes (1), Don't know (999).

Note: Instruction given to Enumerators — Interviewer reads before asking question: Did you witness any of the following INSIDE your polling station?

q13b_person_tampering

Label: Who voter witness tampering with ballotbox

Question code: Q13B

Question: Who did you witness tampering with the ballot box?

Response: Agents of the NPP at the polling station (0), Agents of the NDC at the polling station (1), NPP

community activists (2), NDC community activists (3), Community activist from another party (4), Macho-men/Thugs (5), Ordinary citizens (6), Security Personnel (7), Don't Know/Could not tell (999), Refused (9).

Note: Instruction given to enumerators — If voter answered Yes (1) to 13A.

q14a_verbal_intimidation

Label: Voter witnessed verbal attack at polling station

Question code: Q14A

Question: Thinking about the just ended elections INSIDE your polling station: did you witness Verbal attack or intimidation of any individual?

Response: No (0), Yes (1), Don't know (999).

q14b_verbally_attacked

Label: Voter was verbally attacked or intimidated personally

Question code: Q14B

Question: Did anyone verbally attack or intimidate you personally?

Response: No (0), Yes (1), Don't know (999).

Note: Instruction given to enumerators — If Yes (1) to Question 12A.

q14c_no_verbal_intimidated

Label: Estimated number verbally attacked or intimidated

Question code: Q14C

Question: Roughly how many people in total do you think were affected?

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to enumerators — If Yes (1) to Question 12A

None (0), Few (1-5), Some (6-15), Many (16 or more).

q14d_verbal_attacker

Label: Persons involved in verbal attack or intimidation (witnessed by voter)

Question code: Q14D

Question: Who did you witness verbally attacking/using intimidation? [Check all that apply]

Response: Agents of the NPP at the polling station (0), Agents of the NDC at the polling station (1), NPP community activists (2), NDC community activists (3), Community activist from another party (4), Macho-men/Thugs (5), Ordinary citizens (6), Security Personnel (7), Don't Know/Could not tell (999), Refused (9)

and combinations of these responses.

Note: Instruction given to enumerators — If Yes (1) to Question 14A.

q15a_physical_attack

Label: Voter witnessed physical attack against individual or group, or fight

Question code: Q15A

Question: Did you witness physical attack against any individual or group, or a physical fight INSIDE your polling station?

Response: No (0), Yes (1), Don't know (999).

q15b_voter_physically_attacked

Label: Voter was personally physically attacked

Question code: Q15B

Question: Did anyone physically attack or fight you personally?

Response: No (0), Yes (1), Don't know (999).

Note: Instruction given to enumerators — If Yes (1) to 15A.

q15c_no_physically_attacked

Label: Number of persons physically attacked

Question code: Q15C

Question: Roughly how many people in total do you think were affected?

Response: None (0), Few (1), Some (2), Many(3).

Note: Instruction given to enumerators — If Yes (1) to Question 15A.

None (0), Few (1-5), Some (6-15), Many (16 or more).

q15d_physical_attacker

Label: Persons vote witness physically attacking voters

Question code: Q15D

Question: Who did you witness physically attacking or fighting? [Check all that apply]

Response: Agents of the NPP at the polling station (0), Agents of the NDC at the polling station (1), NPP community activists (2), NDC community activists (3), Community activist from another party (4), Macho-men/Thugs (5), Ordinary citizens (6), Security Personnel (7), Don't Know/Could not tell (999), Refused (9) and combinations of these responses.

Note: Instruction given to enumerators — If Yes (1) to Question 15A.

Pre-Electoral Period Variables

q16a_verbal_bf_eday

Label: Voter witness or heard of verbal attack before election day

Question code: Q16A

Question: Did you witness or hear of the following in your local community BEFORE ELECTION DAY (not on the day of the elections): Verbal attack of any individual related to the election?

Response: No (0), Yes (1), Don't know (999).

q16b_physical_bf_eday

Label: Voter witness or heard of physical attack before election day

Question code: Q16B

Question: Did you witness or hear of the following in your local community BEFORE ELECTION DAY (not on the day of the elections): Physical attack of any individual related to the election?

Response: No (0), Yes (1), Don't know (999).

q16c_verbattack_no

Label: No of voters verbally attacked before election day

Question code: Q16C

Question: Roughly how many people do you think were verbally attacked?

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to enumerators — If Yes (1) to Question 16A.

None (0), Few (1-5), Some (6-15), Many (16 or more).

q16d_physicalattack_no

Label: Number of voters physically attacked before election day

Question code: Q16D

Question: Roughly how many people do you think were physically attacked?

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to enumerators — If Yes (1) to Question 16A.

None (0), Few (1-5), Some (6-15), Many (16 or more).

q16e_attackers_bf_eday

Label: Perpetrators of verbal or physical attack before election day

Question code: Q16E

Question: Who were the main perpetrators of the violent incidents outside the polling station BEFORE ELECTION DAY?

Response: NPP community activists (2), NDC community activists (3), Community activist from another party (4), Macho-men/Thugs (5), Ordinary citizens (6), Security Personnel (7), Don't Know/Could not tell (999), Refused (9).

Note: Response values include combinations of possible responses. Instruction given to Enumerators — If Yes (1) to Question 16A or Question 16B.

Election Day Variables

q17a_verbalattack_eday

Label: Voter heard witness or hear verbal attack in local area on E day

Question code: Q17A

Question: Did you witness or hear of the following in your local community ON ELECTION DAY?: Verbal attack of any individual?

Response: No (0), Yes (1), Don't know (999).

q17b_phyiscalattack_eday

Label: Voter heard witness or hear physical attack in local area on E day

Question code: Q17B

Question: Did you witness or hear of the following in your local community ON ELECTION DAY?: Physical attack of any individual?

Response: No (0), Yes (1), Don't know (999).

q17c_verbalattack_no

Label: Number of voters affected by verbal attack on Election day

Question code: Q17C

Question: Roughly how many people do you think were verbally attacked?

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to enumerators — If Yes (1) to Question 17A.

None (0), Few (1-5), Some (6-15), Many (16 or more).

q17d_physicallyattack_no

Label: Number of voters physically attacked on election day

Question code: Q17D

Question: Roughly how many people in total do you think were physically attacked?

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to enumerators — If Yes (1) to Question 16B.

None (0), Few (1-5), Some (6-15), Many (16 or more).

q17e_attackers_eday

Label: Perpetrators of Election day verbal or physical attack

Question code: Q17E

Question: Who in your opinion were the main perpetrators of the violent incidents outside the polling station ON ELECTION DAY, if any?

Response: Agents of the NPP at the polling station (0), Agents of the NDC at the polling station (1), NPP community activists (2), NDC community activists (3), Community activist from another party (4), Macho-men/Thugs (5), Ordinary citizens (6), Security Personnel (7), Don't Know/Could not tell (999), Refused (9).

Note: Response values include combination of possible responses. Instruction given to Enumerators — If Yes (1) to Question 17A or Question 17B.

q18a_fear_voters

Label: Voters abstaining for fear of violence

Question code: Q18A

Question: How many of the following groups of people in this community do you think did not vote because they were scared of violence? All voters.

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to Enumerators — None (0), Few (1-5), Some (6-15), Many (16 or more).

q18b_fear_women

Label: Women abstaining for fear of violence

Question code: Q18B

Question: How many of the following groups of people in this community do you think did not vote because they were scared of violence? Women.

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to Enumerators — None (0), Few (1-5), Some (6-15), Many (16 or more).

q18c_fear_ndc

Label: NDC supporters abstaining for fear of violence

Question code: Q18C

Question: How many of the following groups of people in this community do you think did not vote because they were scared of violence? NDC supporters.

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to Enumerators — None (0), Few (1-5), Some (6-15), Many (16 or more).

q18d_fear_npp

Label: NPP supporters abstaining for fear of violence

Question code: Q18D

Question: How many of the following groups of people in this community do you think did not vote because they were scared of violence? NPP supporters.

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to enumerators — None (0), Few (1-5), Some (6-15), Many (16 or more).

q18e_fear_poor

Label: Poor voters abstaining for fear of violence

Question code: Q18E

Question: How many of the following groups of people in this community do you think did not vote because they were scared of violence? Those living in poverty.

Response: None (0), Few (1), Some (2), Many(3), Don't know (999).

Note: Instruction given to enumerators — None (0), Few (1-5), Some (6-15), Many (16 or more).

q19_injured_voters

Label: Voters were injured in community as a results of violence

Question code: Q19

Question: Was anyone in your community injured as a result of violence during this election?

Response: No (0), Yes (1), Don't know (999).

q20_death_voter

Label: Some voters die in community out of violence

Question code: Q20

Question: Did anyone die in your community as a result of violence during this election?

Response: No (0), Yes (1), Don't know (999).

q21_observer

Label: Voter saw independent election observers at their polling station

Question code: Q21

Question: Did you see any independent election observers in the polling station where you voted?

Response: No (0), Yes (1), Don't know (999).

q22_obs_other_ps

Label: Voter saw observers at other polling station

Question code: Q22

Question: Did you see any independent election observers in other polling stations within this community?

Response: No (0), Yes (1), Don't know (999).

q23a_obs_deter

Label: Voter rates observers ability in deterring election fraud

Question code: Q23A

Question: How would you rate elections observers' performance in the following areas? Deterring election fraud

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q23b_obs_ff

Label: Voter rates observers ability to promote free and fair

Question code: Q23B

Question: How would you rate elections observers' performance in the following areas? Ensuring free and fair elections

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q23c_obs_viol

Label: Voter rates observers ability to prevent violence

Question code: Q23C

Question: How would you rate elections observers' performance in the following areas? Preventing violence

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q23d_obs_legit

Label: Voter rates observers ability to enhance credible election process

Question code: Q23D

Question: How would you rate elections observers' performance in the following areas? Enhancing credibility of the electoral process

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q24a_npp_mob

Label: Voter was mobilized to vote by NPP

Question code: Q24A

Question: Did any political party agents come to your place of residence to encourage you to vote for their party? NPP

Response: No (0), Yes (1), Refused (9).

q24b_ndc_mob

Label: Voter was mobilized to vote by NDC

Question code: Q24B

Question: Did any political party agents come to your place of residence to encourage you to vote for their party? NDC

Response: No (0), Yes (1), Refused (9).

q24c_other_mob

Label: Voter was mobilized to vote by other party

Question code: Q24C

Question: Did any political party agents come to your place of residence to encourage you to vote for their party? Any Other Party

Response: No (0), Yes (1), Refused (9).

q25a_npp_mp

Label: Voter saw npp mp at a rally or an event

Question code: Q25A

Question: Have you seen the candidate for MP of this constituency from the following parties at a rally or any other event during the current elections? NPP.

Response: No (0), Yes (1), Refused (9).

q25b_ndc_mp

Label: Voter saw ndc mp at a rally or an event

Question code: Q25B

Question: Have you seen the candidate for MP of this constituency from the following parties at a rally or any other event during the current elections? NDC.

Response: No (0), Yes (1), Refused (9).

q25c_other_mp

Label: Voter saw other party mp at a rally or an event

Question code: Q25C

Question: Have you seen the candidate for MP of this constituency from the following parties at a rally or any other event during the current elections? Any Other Party.

Response: No (0), Yes (1), Refused (9).

q26a_npp_gift

Label: Voter witness npp party distributing gifts

Question code: Q26A

Question: Did you witness any of these parties distributing items such as money, food, fertilizer, or cell phones to voters in your area during the election? NPP.

Response: No (0), Yes (1), Refused (9).

q26b_ndc_gift

Label: Voter witness ndc party distributing gifts

Question code: Q26B

Question: Did you witness any of these parties distributing items such as money, food, fertilizer, or cell phones to voters in your area during the election? NDC.

Response: No (0), Yes (1), Refused (9).

q26c_other_mp

Label: Voter witness other party distributing gifts

Question code: Q26C

Question: Did you witness any of these parties distributing items such as money, food, fertilizer, or cell phones to voters in your area during the election? Any Other Party.

Response: No (0), Yes (1), Refused (9).

q27a_loss_npp

Label: Voter fears losing some benefit if he or she does not support npp

Question code: Q27A

Question: Did you worry that you might lose some benefits or privileges or a job if you do not support a particular candidate or party? NPP.

Response: No (0), Yes (1), Refused (9).

q27b_loss_ndc

Label: Voter fears losing some benefit if he or she does not support ndc

Question code: Q27B

Question: Did you worry that you might lose some benefits or privileges or a job if you do not support a particular candidate or party? NDC.

Response: No (0), Yes (1), Refused (9).

q27c_loss_other

Label: Voter fears losing some benefit if he or she does not support other party

Question code: Q27C

Question: Did you worry that you might lose some benefits or privileges or a job if you do not support a particular candidate or party? Any Other Party.

Response: No (0), Yes (1), Refused (9).

q28a_pres_npp

Label: Voter fears losing some benefit if he or she does not support npp

Question code: Q28A

Question: Did you feel pressure from members of your village or community to vote for any of the following parties? NPP.

Response: No (0), Yes (1), Refused (9).

q28b_pres_ndc

Label: Voter fears losing some benefit if he or she does not support ndc

Question code: Q28B

Question: Did you feel pressure from members of your village or community to vote for any of the following parties? NDC.

Response: No (0), Yes (1), Refused (9).

q28c_pres_other

Label: Voter fears losing some benefit if he or she does not support other party

Question code: Q28C

Question: Did you feel pressure from members of your village or community to vote for any of the following parties? Any Other Party.

Response: No (0), Yes (1), Refused (9).

q29a_com_loss_npp

Label: Community to lose benefit of voter does not vote npp

Question code: Q29A

Question: If you do not vote for the following parties, will your community lose access to public services such as education, electricity, or health care? NPP.

Response: No (0), Yes (1), Refused (9).

q29b_com_loss_ndc

Label: Community to lose benefit of voter does not vote ndc

Question code: Q29B

Question: If you do not vote for the following parties, will your community lose access to public services such as education, electricity, or health care? NDC.

Response: No (0), Yes (1), Refused (9).

q29c_com_loss_other

Label: Community to lose benefit of voter does not vote other party

Question code: Q29C

Question: If you do not vote for the following parties, will your community lose access to public services such as education, electricity, or health care? Any Other Party.

Response: No (0), Yes (1), Refused (9).

q30a_chief_pres_npp

Label: Voter felt pressured by chief to vote npp

Question code: Q30A

Question: Did you feel pressure from the CHIEF in your area to vote for one of the following parties? NPP.

Response: No (0), Yes (1), Refused (9).

q30b_chief_pres_ndc

Label: Voter felt pressured by chief to vote ndc

Question code: Q30B

Question: Did you feel pressure from the CHIEF in your area to vote for one of the following parties? NDC.

Response: No (0), Yes (1), Refused (9).

q30c_chief_pres_other

Label: Voter felt pressured by chief to vote other party

Question code: Q30C

Question: Did you feel pressure from the CHIEF in your area to vote for one of the following parties? Any Other Party.

Response: No (0), Yes (1), Refused (9).

q31a_rel_pres_npp

Label: Voter felt pressured by religious leader to vote npp

Question code: Q31A

Question: Did you feel pressure from a RELIGIOUS LEADER to vote for one of the following parties? NPP.

Response: No (0), Yes (1), Refused (9).

q31b_rel_pres_ndc

Label: Voter felt pressured by religious leader to vote ndc

Question code: Q31B

Question: Did you feel pressure from a RELIGIOUS LEADER to vote for one of the following parties? NDC.

Response: No (0), Yes (1), Refused (9).

q31c_rel_pres_other

Label: Voter felt pressured by religious leader to vote other party

Question code: Q31C

Question: Did you feel pressure from a RELIGIOUS LEADER to vote for one of the following parties? Any Other Party.

Response: No (0), Yes (1), Refused (9).

q32a_hse_pres_npp

Label: Voter felt pressured by household member to vote npp

Question code: Q32A

Question: Did you feel pressure from someone in your household to vote for one of the following parties? NPP.

Response: No (0), Yes (1), Refused (9).

q32b_hse_pres_ndc

Label: Voter felt pressured by household member to vote ndc

Question code: Q32B

Question: Did you feel pressure from someone in your household to vote for one of the following parties? NDC.

Response: No (0), Yes (1), Refused (9).

q32c_hse_pres_other

Label: Voter felt pressured by household member to vote other party

Question code: Q32C

Question: Did you feel pressure from someone in your household to vote for one of the following parties? Any Other Party.

Response: No (0), Yes (1), Refused (9).

cash_npp

Label: Amount of cash npp gives as gift

Question code: Q32A

Question: When the following parties gave voters cash in your village or community during this election, about how much do they usually give? NPP.

Type: String.

cash_ndc

Label: Amount of cash ndc gives as gift

Question code: Q32B

Question: When the following parties gave voters cash in your village or community during this election, about how much do they usually give? NDC.

Type: String.

q33a_gifttype_npp

Label: Specific gifts offered by npp

Question code: Q33A

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NPP.

Response: Cash (1), Food (2), Technology Product (3), Fertilizer (4), Bicycle (5), Clothing (6).

Note: The resulting values in the dataset are a combination of each of the possible answers. When the response was Other, responses are coded in *q33a_other_npp*.

q33a_other_npp

Label: Other gifts offered by npp

Question code: Q33A

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NPP.

Type: String.

Note: When the respondents mentioned items that were not listed in questionnaire.

q33b_gifttype_ndc

Label: Specific gifts offered by ndc

Question code: Q33B

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NDC.

Response: Cash (1), Food (2), Technology Product (3), Fertilizer (4), Bicycle (5), Clothing (6).

Note: The resulting values in the dataset are a combination of each of the possible answers. When the response was Other, responses are coded in *q33b_other_ndc*.

q33b_other_ndc

Label: Other gifts offered by ndc

Question code: Q33B

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NDC.

Type: String.

Note: When the respondents mentioned items that were not listed in questionnaire.

q33c_gifttype_other

Label: Specific gifts offered by other party

Question code: Q33C

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NDC.

Response: Cash (1), Food (2), Technology Product (3), Fertilizer (4), Bicycle (5), Clothing (6).

Note: The resulting values in this variable are a combination of each of the possible answers. When the response was Other, responses are coded in *q33c_other_party*.

q33c_other_party

Label: Other gifts offered by other party

Question code: Q33C

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? Other party.

Type: String.

Note: When the respondents mentioned items that were not listed in questionnaire.

q34a_vgtype_npp

Label: Specific gifts offered by npp to voter

Question code: Q34A

Question: Did you personally receive any of the following from candidates or agents from the following parties ON ELECTION DAY OR THE DAY BEFORE? NPP.

Response: Cash (1), Food (2), Technology Product (3), Fertilizer (4), Bicycle (5), Clothing (6).

Note: The resulting values in the dataset are a combination of each of the possible answers. When the response was Other, responses are coded in *q34a_votype_npp*.

q34a_votype_npp

Label: Other gifts offered by npp to voter

Question code: Q34A

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NPP.

Type: String.

Note: When the respondents mentioned items that were not listed in questionnaire.

q34b_vgtype_ndc

Label: Specific gifts offered by ndc to voter

Question code: Q34B

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NDC.

Response: Cash (1), Food (2), Technology Product (3), Fertilizer (4), Bicycle (5), Clothing (6).

Note: The resulting values in the dataset are a combination of each of the possible answers. When the response was Other, responses are coded in *q33b_other_ndc*.

q34b_votypy_ndc

Label: Other gifts offered by ndc to voter

Question code: Q34B

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NDC.

Type: String.

Note: When the respondents mentioned items that were not listed in questionnaire.

q34c_vgtype_other

Label: Specific gifts offered by other party to voter

Question code: Q33C

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? NDC.

Response: Cash (1), Food (2), Technology Product (3), Fertilizer (4), Bicycle (5), Clothing (6).

Note: The resulting values in this variable are a combination of each of the possible answers. When the response was Other, responses are coded in *q33c_other_party*.

q34c_votype_other

Label: Other gifts offered by other party

Question code: Q33C

Question: Did you personally receive any of the following from candidates or agents from the following parties IN THE WEEKS BEFORE ELECTION DAY? Other party.

Type: String. Note: When the respondents mentioned items that were not listed in questionnaire.

q35a_bf_cash_npp

Label: Cash received from npp before election day

Question code: Q35A

Question: If you received cash, how much money did you receive from each of the parties that you received money from before and on election day? NPP WEEKS BEFORE ELECTION DAY?

Type: String.

q35a_eday_cash_npp

Label: Cash received from npp on election day

Question code: Q35A

Question: If you received cash, how much money did you receive from each of the parties that you received money from before and on election day? NPP ON ELECTION DAY OR THE DAY BEFORE?

Type: String.

q35b_bf_cash_ndc

Label: Cash received from ndc before election day

Question code: Q35B

Question: If you received cash, how much money did you receive from each of the parties that you received money from before and on election day? NDC WEEKS BEFORE ELECTION DAY?

Type: String.

q35b_eday_cash_ndc

Label: Cash received from ndc on election day

Question code: Q35A

Question: If you received cash, how much money did you receive from each of the parties that you received money from before and on election day? NDC ON ELECTION DAY OR THE DAY BEFORE?

Type: String.

q35c_bf_cash_other

Label: Cash received from other party before election day

Question code: Q35A

Question: If you received cash, how much money did you receive from each of the parties that you received money from before and on election day? WEEKS BEFORE ELECTION DAY?

Type: String.

q35c_eday_cash_other

Label: Cash received from other parties on election day

Question code: Q35A

Question: If you received cash, how much money did you receive from each of the parties that you received money from before and on election day? OTHER PARTIES ON ELECTION DAY OR THE DAY BEFORE?

Type: String.

q36a_pubserv

Label: Voter rate on ndc performance on public service

Question code: Q36A

Question: How would you rate the NDC government's performance in the following areas? Delivering public services to your community.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q36b_ndc_economy

Label: Voter rate on ndc performance on economic management

Question code: Q36B

Question: How would you rate the NDC government's performance in the following areas? Helping the national economy.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q36c_ndc_voter_family

Label: Voter rate on ndc performance on improving family welfare

Question code: Q36C

Question: How would you rate the NDC government's performance in the following areas? Improving your family's economic situation.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q36d_ndc_security

Label: Voter rate on ndc performance in providing peace and security

Question code: Q36D

Question: How would you rate the NDC government's performance in the following areas? Providing peace and security.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q36e_ndc_welfare

Label: Voter rate on ndc performance in helping poor

Question code: Q36E

Question: How would you rate the NDC government's performance in the following areas? Helping the poor.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q36f_ndc_oil_manage

Label: Voter rate on ndc performance in oil management

Question code: Q36E

Question: How would you rate the NDC government's performance in the following areas? Managing the country's new oil revenues.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q37a_mp_public_service

Label: Voter rating of MP performance in delivering public service

Question code: Q37A

Question: How would you rate your incumbent MP's performance in the following areas? Delivering public services to your community.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q37b_mp_national_econ

Label: Voter rating on MP performance in helping national economy

Question code: Q37B

Question: How would you rate your incumbent MP's performance in the following areas? Helping the national economy.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q37c_mp_voter_family

Label: Voter rating on MP help with voter's family economic situation

Question code: Q37C

Question: How would you rate your incumbent MP's performance in the following areas? Improving your family's economic situation.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q37d_mp_peace

Label: MP's help on promoting peace and security

Question code: Q37D

Question: How would you rate your incumbent MP's performance in the following areas? Providing peace and security.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q37e_mp_welfare

Label: MPs help on improving welfare

Question code: Q37E

Question: How would you rate your incumbent MP's performance in the following areas? Helping the poor.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q37f_mp_oil_manage

Label: MP help in managing oil

Question code: Q37F

Question: How would you rate your incumbent MP's performance in the following areas? Managing the country's new oil revenues.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q38a_npp_pubserve

Label: Voter rating on how well npp will manage public service

Question code: Q38A

Question: How well do you think an NPP government would handle the following areas? Delivering public services to your community.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q38b_npp_econ

Label: Voter rating on how well npp will manage economy

Question code: Q38B

Question: How well do you think an NPP government would handle the following areas? Helping the national economy.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q38c_npp_vecon

Label: Voter rating on how well npp will her family situation

Question code: Q38C

Question: How well do you think an NPP government would handle the following areas?

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q38d_npp_peace

Label: Voter rating on how well npp will manage national peace

Question code: Q37D

Question: How well do you think an NPP government would handle the following areas? Providing peace and security.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q38e_npp_welfare

Label: Voter rating on how well npp will help poor

Question code: Q38E

Question: How well do you think an NPP government would handle the following areas? Helping the poor.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

q38f_npp_oil_manage

Label: Voter rating on how well npp will manage oil

Question code: Q38F

Question: How well do you think an NPP government would handle the following areas? Managing the country's new oil revenues.

Response: Excellent (0), Good (1), Fair (2), Poor (3), Don't know (999).

vote_pres_2008

Label: Presidential Vote 2008

Question code: Q33

Question: In 2008, which party's presidential candidate did you vote for?

Response: CPP (0), NDC (1), NPP (2), PNC (3), DPP (5), Other (6), Refused (999).

vote_parl_2008

Label: Parliamentary Vote 2008

Question code: Q34

Question: In 2008, which party's parliamentary candidate did you vote for?

Response: CPP (0), NDC (1), NPP (2), PNC (3), DPP (5), Other (6), Refused (999).

vote_pres_2012

Label: Presidential Vote 2012

Question code: Q35

Question: In the just ended elections, which party's presidential candidate did you vote for?

Response: CPP (0), NDC (1), NPP (2), PNC (3), PPP/NDP (4), DPP (5), Other (6), Refused (999).

vote_parl_2012

Label: Parliamentary Vote 2012

Question code: Q36

Question: In the just ended elections, which party's parliamentary candidate did you vote for?

Response: CPP (0), NDC (1), NPP (2), PNC (3), PPP/NDP (4), DPP (5), Other (6), Refused (999).

ink_finger

Label: Proof of Vote in 2012 Elections

Question code: Q37

Question: If you voted in the just ended elections, do you still have the ink mark on your finger? Please show me the mark.

Response: No (0), Yes (1).

language

Label: Language in which the Interview was Conducted

Question code: Q38

Question for interviewer: What was the primary language used for the interview?

Response: English (0), Akan (1), Ewe (2), Ga/Dangme (3), Hausa (4), Dagbani (5), Other (6).

shelter

Label: Type of Shelter

Question code: Q39

Question for interviewer: Type of shelter

Response: Formal house (0), Concrete permanent structure (1), Concrete and mud (2), Mud (3), Hostel (4).

Chapter 5

Follow-Up Ashanti Geo-Referenced Data Collection Project

Follow-Up Project Objectives

The main objectives of the follow-up project are as follows:

1. To collect geo-referenced coordinates of project's sample of polling stations in the Ashanti region;
2. To collect geo-referenced coordinates of politically-relevant landmarks in the sample constituencies in the Ashanti region.

The rationale for the follow-up data collection is to have information that will allow precisely estimates of observers' spillover effect. The data also permit estimates of how parties or candidates organize election fraud activities by measuring the distance from polling stations to politically relevant landmarks, such as the residence of the member of parliament, party offices, and district administrative offices.

Survey Design and Open Data Kit (ODK) Data Collection Software

Two survey instruments were developed to capture GPS information about the sample of polling stations. The first instrument was designed for polling station information. The second was to collect constituency-level political landmarks. These instruments were programmed into Android devices that were set up to upload the data collected to a dashboard. The dashboard was set up on a website provided by Open Data Kit, an open-source suite of tools that helps organizations author, field, and manage mobile data collection (go to `https://opendatakit.org/about/`).

Polling Station Data Collection

The electronic instrument was designed to capture the following information about each sampled polling station:

1. Basic information about the polling station: i.e. region name, constituency name, electoral area name, polling station name, and polling station number;
2. GPS coordinates;
3. Photograph of the polling site (location where the enumerator recorded the GPS coordinate);
4. Census enumeration area of polling station;
5. Information on the accessibility of the polling station: i.e. type of road used to access the community in which polling site is located as well as the type of transport that can be used;
6. Radio coverage: i.e. information on whether the polling site has access to key government and private radio stations;
7. Cell phone coverage: i.e. information on whether the polling site has coverage of key cell phone providers (MTN, Vodafone);
8. Access to electricity: i.e. information on whether households close to the polling station can access an electricity grid.

Constituency Level Data Collection

The electronic data collection instrument was designed as well to collect information about key political landmarks in the sampled constituencies in Ashanti. The GPS coordinates were collected for the residence of the Member of Parliament (MP), party offices of the two major parties (the NPP and NDC), and the District offices. Photographs of these locations were also captured.

Enumerator Instructions for Electronic Data Collection

UCLA Elections Project, Ashanti GIS Instructions, Pilot, 7 June 2013

University of California, Los Angeles

Field Researcher Instructions

Ashanti Region GIS Data Collection
Ghana 2012 Elections Project

7 June 2013

Thank you for agreeing to work on our research project! This is the second round of data collection for a project on Ghana's 2012 elections. This round is extremely important for the project, so we are grateful for your participation.

Your work will involve gathering information from a number of locations around Ashanti Region. You will be using a mobile device we provide you to collect the data. We will also be asking you to answer questions about what you observe in the areas where you are sent. We will also be asking you to gather information about the precise geographic coordinates of each location using the GPS system that is built in the mobile device (this is easy to do!). GPS refers to Global Positioning Systems. It works because your device will communicate with satellites in order to determine your geographic coordinates.

Your work will involve **two** types of data collection:

1. **Polling Station Data Collection:** Gathering data about locations that served as polling places throughout Ashanti Region during the December 2012 elections.
2. **Constituency Landmark Data Collection:** Gathering data about political landmarks in the constituencies in which the polling stations are located.

The rest of this document provides instructions for each of these tasks. Be sure to bring this instruction sheet with you when you do your work.

1 Important Information and Materials

1. **Field Research Coordinator** NAME is the field research coordinator/supervisor for this project. He will be helping to coordinate and oversee the activities of the research team. If you have any questions or problems, Sammy is the first person to call. His cell phone numbers are:

   (a) number

   (b) number

2. Materials

Before beginning research each day, be sure you have the following materials:

(a) Your mobile data collection device. (Make sure you fully charge your phone before you set out.)

(b) This sheet of instructions;

(c) Your list of polling station locations;

(d) Your list of other constituency locations;

(e) Your list of Ghana census enumeration areas;

(f) Sammy's contact information (also save his numbers on your mobile phone).

2 Polling Station Data Collection Instructions

You will be assigned a set of polling stations to visit. In each day, you will locate and collect data on 3-5 polling stations on your list. Based on your experience and knowledge about your area, we will require that you draw up an appropriate schedule so as to cover your assigned polling stations over the estimated 25-day work period. Many polling stations will be located at schools, cocoa sheds, and other landmarks. You may need to ask people in the area exactly where the polling station is located. If in doubt, locate the nearest EC office or contact a CODEO constituency supervisor for help.

Once you have determined the geographic location of the polling stations on your list, make a plan for the most efficient way for you to visit these stations. Figure out the best way to travel around the constituency to visit each of the places.

When you arrive at each polling station, you will do the following:

1. **Prepare yourself to enter the data**

   (a) Open the ODK Collect application on the mobile device. There are five feature buttons: “Fill Blank Form”, “Edit Saved Form”, “Send Finalized Form”, “Get Blank Form”, and “Delete Saved”. Throughout the survey you will mostly use the first three.

   (b) Select “Fill Blank Form”. Open up the survey that is designated for the constituency in which you are working. For example, if you are working in Bosomtwe Constituency, open the survey designed for Bosomtwe.

   (c) Swipe the screen to the left to start filling in the survey question. First, enter your name.

2. **Enter the geographic information related to the polling station you are currently visiting:**

   (a) Select Region “Ashanti;”

   (b) Select the constituency you are in;

   (c) Select the electoral area name;

   (d) Select the polling station name;

   (e) Select the polling station number;

3. **Collect the GPS coordinates of the polling station.**

   (a) Press the “Record Location” button. The system will start locating the GPS coordinates and inform you on how accurate the measurement is. Wait until you see “Accuracy is 5m”.

   (b) Press “Record Location”. Done! Swipe to the next question. (Note that 5m is the best the device can do, and so it may just record at this stage.)

4. Take a photo of the polling station using the phone.

(a) Press "Take Photo". After the phone has taken the shot, look for the "Done" button.

(b) Press "Done" and swipe to the next question.

5. Enter District and census enumeration area.

You may need to ask some local people about the name of the census enumeration area. If you do not know or if you are not sure, ask a few people to be sure.

(a) Select the name of the district in which the constituency is located;

(b) Select the name of the enumeration area or community.

6. Accessibility of the Polling Station

(a) What type of road is used to access the community?

i. Tarred/asphalt

ii. Paved/gravel

iii. Foot path

(b) How can the polling station be accessed?

i. Car

ii. Motor bike

iii. Only by foot

7. Radio Coverage

Turn on the radio on your device. Select "Yes" or "No" for each of the radio stations you tune in.

(a) Are you picking up 94.3 FM, GBC radio, Obuasi?

(b) Are you picking up 95.7 FM, GBC Radio, Kumasi?

(c) Are you picking up 99.5 FM, Luv FM?

8. Cell Phone Coverage

(a) Insert the MTN SIM card that we have provided. Do you have reception on your cell phone at the polling station using the MTN card?

9. Look Around the Residences Near the Polling Station

(a) Is there an electricity grid that households around the polling station can access?

10. Great job! Select "Save Form and Exit." Head to the next station.

3 Constituency Landmark Data Collection Instructions

You will be assigned polling stations that are in two or three different constituencies. In addition to gathering information about the polling places in those constituencies, we would also like you to gather information about some important political landmarks in each constituency. (Note that you can do this as you go along with your normal polling station data collection.)

When you arrive in each constituency, do the following:

1. **Find out the locations of the landmarks in the constituency.**

   Before you begin data collection in a constituency, use your own knowledge or ask around to find out the location of each of the following:

   (a) Find out where the MP's home/residence in the constituency is located.

      i. We want to know the residence of the member of parliament in the constituency who was the incumbent at the time of the last elections. This is the person who was the sitting member of parliament from 2008–2012.

   (b) Find out the location of the NPP party office in the constituency.

   (c) Find out the location of the NDC party office in the constituency.

   (d) Find out the location of the district office.

2. **Make a plan to get to these landmarks**

   Once you have figured out these locations, make a plan for the best way to visit each place. Visit them in the order that makes the most sense — i.e., if the places are close to one another, go to them as part of the same trip.

   Figure out if any of the political landmarks are close to the polling stations on your list. You can then visit a polling station and one of the landmarks in the same trip.

   For each constituency, you will use a single form to record all the information asked in this section. This form is called the "region form". In using this form you will make use of the "Save Form" and "Edit Saved Form" tools on ODK Collect. When you have finished recording information about a landmark, save the form and move to the next. (Do not send in the form until it is finalized.) When you get to the other landmarks, open ODK Collect and select "Edit Saved Form" to continue with the saved region form.

3. **Visit the MP's Residence** Find and visit the MP's home in the constituency. If you do not know where the MP's home in the constituency is located, ask around until you are sure you have figured out where it is. After you arrive:

   (a) Open up the regional form on your device;

(b) Select the "Ashanti Region;"

(c) Select the constituency you are in;

(d) Enter the incumbent MP's name;

(e) Enter the MP's party;

(f) Take a photo of the MP's residence;

(g) Note whether the MP's residence has a lobby or waiting area where constituents wait to greet him;

(h) Collect the GPS coordinates of the MP's residence. Remember to wait until you have 5m accuracy.

4. Visit the NPP Party Office

Find and visit the NPP's party office in the constituency. If you do not know where it is located, ask around until you are sure you have figured out where it is. After you arrive:

(a) Take a photo of the NPP's party office;

(b) Collect GPS coordinates of the NPP's party office. Remember to wait until you have 5m accuracy.

5. Visit the NDC Party Office

Find and visit the NDC's party office in the constituency. If you do not know where it is located, ask around until you are sure you have figured out where it is. After you arrive:

(a) Take a photo of the NDC's party office;

(b) Collect GPS coordinates of the NDC's party office. Remember to wait until you have 5m accuracy.

6. Visit the District Office

If you have not already done so while collecting data for another constituency, find and visit the district office in the district. If you do not know where it is located, ask around until you are sure you have figured out where it is. After you arrive:

(a) Enter the name of the district capital;

(b) Take a photo of the district office;

(c) Collect GPS coordinates of the district office. Remember to wait until you have 5m accuracy.

7. Great Job! Finished. Save Form and Exit.

4 Sending in Finalized Forms

All forms you fill in and save will be stored on your phone and can be edited if necessary using the "Edit Saved Form" button. At the close of each day, find a place with a good phone connection and send in all the finalized forms from that day. You can also do this each time you finish a form. This is how you proceed:

1. Open ODK Collect;
2. Select "Send Finalized Form". Note that beside this button is the number of forms that you have saved as finalized;
3. If you want to send all, select the "Toggle All" button at the bottom of the page. This will select all the finalized forms. (You can also select only those you want to send in.)
4. Press "Send Selected" and Voila! The forms will be sent straight into the database.
5. Thanks for for the Great Job.

Field Logistics

Training Instruction

Training instruction was developed to guide enumerators to plan their field work and provide information on the data to be collected in the field. Our training instruction was also designed to guide enumerators on how to use the ODK-designed forms installed on the Android phones to collect the required data and how to send the collected information to the central database.

A one day training was organized for enumerators on Thursday June 13, 2013 at the Marbon hotel in Kumasi. Training was facilitated by George Ofosu and Miriam Golden, who trained eight enumerators. One of the enumerators also served as the supervisor of the group.

The enumerators piloted the survey instruments in the Sekyere Afram Plains constituency. All eight enumerators participated in the exercise. Due to the geographical spread of the constituency, enumerators were divided into two groups. Each group covered a cluster of the polling stations. The only changes made to the original instruments were selected options for radio and phone coverage at polling stations. The option “unstable" network coverage was added.

Deployment

Enumerators were contracted to work for six weeks, for a period covered June 17 to July 31, 2013. The enumerators were deployed as follows (the number of polling stations in each constituency appear in parentheses):

1. Enumerator 1 (Supervisor): Mahyia South (37), Manhyia (25)
2. Enumerator 2: Oforikrom (55), Asokwa (43), Nhyiaeso (37)
3. Enumerator 3: Asante Akim Central (29), Asante Akim North (30), Suame (45)
4. Enumerator 4: Ejura-Sekyedumase (38), Mampong (37)
5. Enumerator 5: Afigya-Sekyere East (39), Offinso North (29), Offinso South (41)
6. Enumerator 6: Amansie West (Manso Nkwanta)(40), Manso Edubia (30), Odotobiri (44)
7. Enumerator 7: Bosomtwe (39), Atwima Mponua (56), Ahafo Ano North (38)
8. Enumerator 8: Obuasi(33), Bekwai (50), Kumawu (21)

Debriefing of Field Enumerators

Project member George Ofosu held a debriefing session with enumerators on August 10, 2013 at the Marborn Hotel in Kumasi. All enumerators were present, returned their Android devices, and provided information on their experiences in the field. Overall, enumerators reported it was a smooth exercise. The instructions

and questions were clear, and the phones were easy to operate. Some of the key challenges enumerators faced were:

1. Locating polling stations was sometimes difficult. This was due mainly to the naming of polling station. Polling stations are often named after a prominent person or landmark in the community even though the station may be located at a more accessible location for the purpose of voting. In most cases, the actual location was not far from the landmark after which the station was named. Nonetheless, enumerators had to ask locals for information.

2. Enumerators had to be tactical in entering what they called “dangerous" polling stations. Some enumerators reported that they were threatened to leave the community by residents. This made it difficult, at least initially, for the enumerator to work at the polling site. The situation was worsened in places where enumerators did not speak the local language. In most cases, enumerators reported they had to contact the Assemblymen in these communities to gain access to the polling sites. Such cases were reported in the Fulani communities in the constituency of Asante Akim Central, where the perpetrators were Fulani cattle herdsmen.

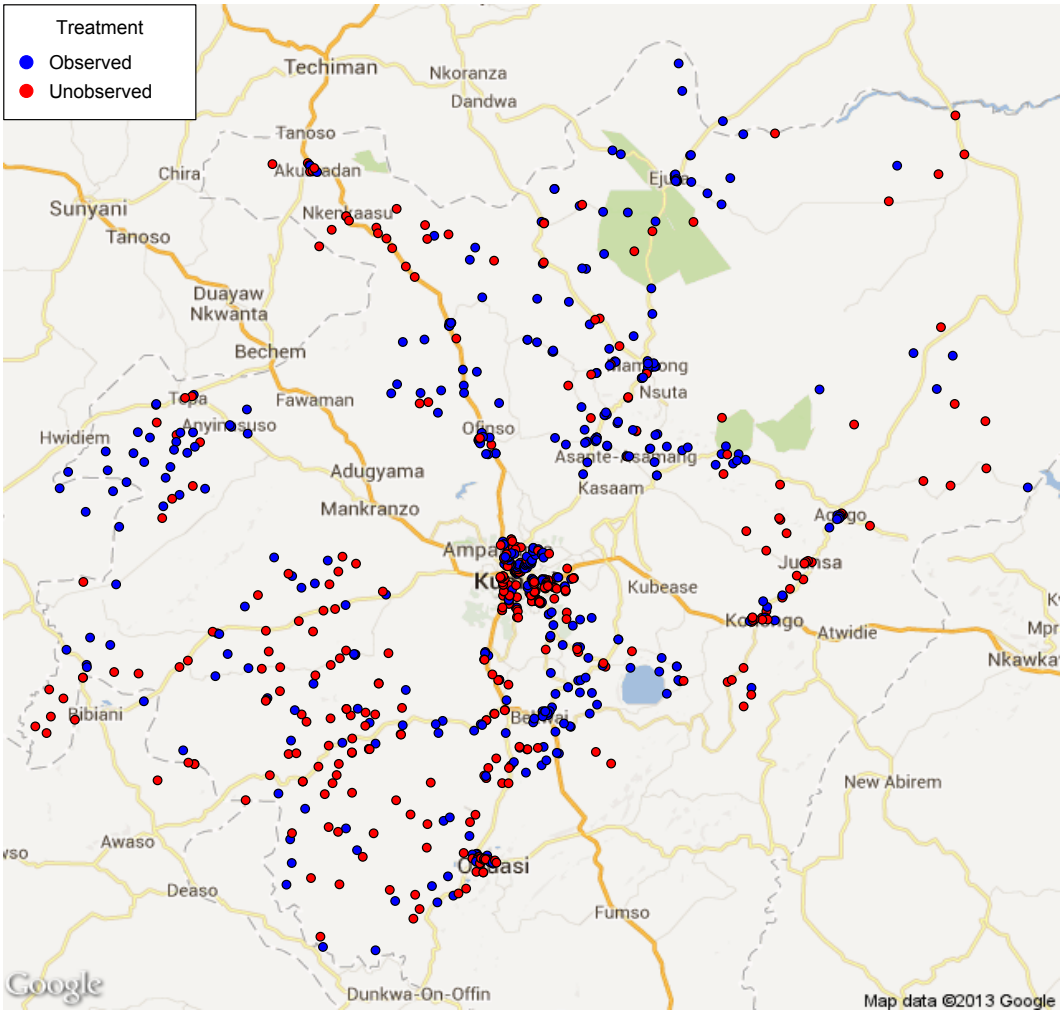
3. Enumerators complained about transportation costs especially to unmotorable and remote locations.

4. In some constituencies, the location of the MP’s house was not found. In these situations, enumerators used the location of the MP’s extended family house. This occurred in Suame, Ahafo Ano, Obuasi, and Bekwai.

Location of Polling Stations Where Data Was Collected

The geo-coordinates of the polling stations were captured electronically using Android-based phones and the ODK Google aggregator. There are 857 polling stations in our sample in the Ashanti region. We were able to collect GPS coordinates from 824 stations, or 96%. The map below, Figure **??**, shows the location of the polling stations that were geo-coded.

Figure 5.1: Map Showing Sampled Polling Stations in the Ashanti



Chapter 6

Codebook for the Geo-Referenced Location of Ashanti Polling Places

Variables

Identification Variables

constituency

Label/Question: Constituency Name

Type: String.

districtname_ec

Label: District Name. Type: String.

ea_name

Label: Census Enumeration Area

Type: String.

pscode

Label/Question: Polling Station Code

Type: String. Note: Use this variable to merge VIR and ASHANTI datasets.

pollingstation

Label/Question: Polling Station Name

Type: String.

region

Label: Region

Type: String.

Characteristics of Sampled Polling Place Variables

accuracy

Label: Accuracy of GPS Location Type: Numeric. Note: Enumerators were asked to record geographical coordinates only when the level of accuracy reached 5 meters.

altitude

Label: altitude

Type: Numeric.

electricity

Label: Electricity

Value Labels: No (0), Yes (1), Missing (.a)

Note: Question to enumerators — Is there an electricity grid that households around the polling station can access?

end

Label: Time and Date when Data Collection Ended

Note: Example of the Format: Fri Jul 05 10:50:27 UTC 2013.

latitude

Label: Latitude

Type: Numeric.

longitude

Label: Longitude

Type: Numeric.

ps_access

Label: Accessibility — Mode of Transportation

Value Labels: Bike & Foot (1) Car & Bike (2), Car, Bike & Foot (3) Car & Foot (4), Missing (.a)

Note: Question to enumerators — Accessibility to Polling Station — How can the polling station be accessed?

road_to_community

Label: Accessibility — Type of Road

Value Labels: Foot Path (1) Paved/Gravel (2), Tarred/Asphalt (3), Missing (.a)

Note: Question to enumerators — Accessibility to Polling Station — What type of road is used to access the community?

start

Label: Time and Date when Data Collection Started

Note: Example of the Format — Fri Jul 05 10:50:27 UTC 2013.

today

Label: Date when Polling Station Information was Collected

Note: Example of the Format — Fri Jul 05 00:00:00 UTC 2013.

Radio and Cellphone Coverage Variables

coverage_carrier_vodafone

Label: Coverage of Carrier — Vodafone

Value Labels: No (1), Unstable (2), Yes (3).

Question to Enumerators: Is there reception on your cell phone at the polling station using the Vodafone card?

coverage_carrier_mtn

Label: Coverage of MTN

Value Labels: No (1), Unstable (2), Yes (3).

Question to Enumerators: Insert the MTN SIM card that we have provided. Is there reception on your cell phone at the polling station using the MTN card?

coverage_fm921

Label: Coverage of 92.1 FM

Value Labels: No (1), Unstable (2), Yes (3).

Question to Enumerators: Are you picking up 92.1 FM?

coverage_fm995

Label: Coverage of 99.5 FM

Value Labels: No (1), Unstable (2), Yes (3).

Question to Enumerators: Are you picking up 99.5 FM, Luv FM?

Variables that Describe the Experimental Conditions of Polling Stations

treatment

Label: Treatment

Value Labels: No (0), Yes (1).

Note: In the VIR dataset the variable that describes whether a polling station is in treatment or control group is "observer"

sat

Label: Saturation (rate)

Value Labels: Low (.30), Medium (.50), High (.80).

Note: This variable is also present in the VIR dataset and has the same definition.

Additional Variables

enumerator

Label: Enumerator's ID

Type: Numeric.

Note: Each value identifies a specific enumerator.

cel_id

Label: Cellular Phone ID

Note: Each value identifies a different SIM card that was used in the data collection.

photos

The photographs collected of polling station are bundled into a single .zip file, called photos-ps. When unzipped, the photos are organized by polling station name.

Chapter 7

Codebook for the Ashanti Constituency-Level Dataset

Variables

constituency

Label: Constituency Name

Type: String.

device_id

Label: Cellular Phone ID

Note: Each value identifies a different device that was used in the data collection.

dist_capital

Label: Name of District Capital

Type: String.

end

Label: Time and Date when Data Collection Ended

Note: Example of the Format — Fri Jul 05 10:50:27 UTC 2013.

enumerator

Label: Enumerator's ID

Note: Each value identifies an enumerator.

mp_name

Label: MP's Name

Type: String.

mp_party

Label: MP's Party

Type: String.

mp_res_accuracy

Label: Accuracy at MP's Residence

Type: Numeric.

Note: Enumerators were asked to record geographical coordinates only when the level of accuracy reached 5 meters.

mp_res_latitude

Label: MP's Residence Latitude

Type: Numeric. Note: Latitude is jiggered for privacy considerations.

mp_res_longitude

Label: MP's Residence Longitude

Type: Numeric. Note: Longitude is jiggered for privacy considerations.

mp_res_altitude

Label: MP's Residence Altitude

Type: Numeric. Note: Altitude is jiggered for privacy considerations.

ndc_office_accuracy

Label: Accuracy at NDC Office

Note: Enumerators were asked to record geographical coordinates only when the level of accuracy reached 5 meters.

ndc_office_altitude

Label: Altitude at NDC Office

Type: Numeric.

ndc_office_latitude

Label: Latitude at NDC Office

Type: Numeric.

ndc_office_longitude

Label: Longitude at NDC Office

Type: Numeric.

npp_office_latitude

Label: Latitude at NPP Office

Type: Numeric.

npp_office_longitude

Label: Longitude at NPP Office

Type: Numeric.

npp_office_altitude

Label: Altitude at NPP Office

Type: Numeric.

npp_office_accuracy

Label: Accuracy at NPP Office

Type: Numeric.

Note: Enumerators were asked to record geographical coordinates only when the level of accuracy reached 5 meters.

region

Label: Region

Type: String.

start

Label: Time and Date when Data Collection Started

Note: Example of Format — Fri Jul 05 10:50:27 UTC 2013.

today

Label: Date when Data Collection Started

Note: Example of the Format — Fri Jul 05 00:00:00 UTC 2013.

photos

The photographs collected of the NPP office, the NDC office and the District administrative office are bundled into a single .zip file called photos-const. When unzipped, the photos are organized by constituency and the labels are self-explanatory. Photos of MP's residences are omitted for privacy considerations.