

FOR IMMEDIATE RELEASE



CODEO'S STATEMENT ON THE OFFICIAL RESULTS OF THE 2020 PRESIDENTIAL ELECTIONS

CONTACT

Mr. Albert Arhin

CODEO National Coordinator

Phone: +233 (0) 24 474 6791 / (0) 20 822 1068

Secretariat: +233 (0) 244 350 266/ 0277 744 777

Email: info@codeoghana.org

Website: www.codeoghana.org

Thursday, December 10, 2020

Accra, Ghana

Introduction

On Sunday, December 6, 2020, the Coalition of Domestic Election Observers (CODEO), in its press statement, communicated to the nation its intention to once again employ the Parallel Vote Tabulation (PVT) methodology to observe the 2020 presidential election, just as it did in 2008, 2012 and 2016. The PVT methodology is a reliable tool available to independent and non-partisan citizens' election observer groups around the world for verifying the accuracy of official presidential elections results. In keeping with our protocols, which is that CODEO releases its PVT findings after the official results have been announced by the Electoral Commission, CODEO is here to release its PVT estimates for the presidential election. CODEO's PVT estimates for the presidential results form part of its comprehensive election observation activities for the 2020 elections that covered voter registration exercise, pre-election environment observation for three months (September to November), and election day observation.

The PVT Methodology

The PVT is an advanced and scientific election observation technique that combines well-established statistical principles and Information Communication Technology (ICT) to observe elections. The PVT involves deploying trained accredited Observers to a nationally representative random sample of polling stations. On Election-Day, PVT Observers observe the entire polling process and transmit reports about the conduct of the polls and the official vote count in real-time to a central election observation database, using the Short Message Service (SMS) platform.

The PVT technique has been deployed successfully around the world to promote electoral integrity and help defend the rights of citizens to vote and to protect such rights when exercised. The first PVT was conducted in the Philippines in 1986. Since then, the methodology has been deployed in election observation in Bulgaria, Chile, Croatia, Guyana, Albania, Bangladesh, Belarus, Indonesia, Georgia, Macedonia, Slovakia, Montenegro, Nicaragua, Panama, Peru and Ukraine. In Africa, the methodology has been deployed successfully in Madagascar, Malawi, Mozambique, Uganda, Burundi, Sierra Leone, Zambia, Ghana, Nigeria, Zimbabwe, Burkina Faso, Cote d'Ivoire, Kenya and Tunisia.

Unlike pre-election surveys (which track voter intentions) or exit polls (which track voter recollections), the PVT is based on the actual behavior of electorates in an election. In other words, PVT Observers do not speak to voters about the choices they made at the polls to predict the outcome of an election. Rather, after observing the entire voting and counting process, PVT Observers record

the official vote count as announced by election officials at polling stations and rapidly transmit this information to an observation center via coded text message. Consequently, the PVT data is collected directly from polling stations.

PVT in Ghana in Retrospect

CODEO applied the PVT methodology for the first time in its election observation work in the year 2008 and has since used it in all subsequent presidential elections, including the current one (i.e. 2012, 2016 and 2020). As presented in Tables 1 to 3, CODEO's previous PVT estimates of the presidential election results have been consistent with the official results announced by the EC in 2008, 2012 and 2016 (*See Appendix A, Tables A1 to A4*). Similarly, CODEO's PVT voter turnout and rejected ballot rates in the previous elections have also been consistent with figures announced by the EC (*See Appendix A, Table A5*).

The 2020 PVT Estimates of the Presidential Election

By midnight of December 7, 2020, CODEO had received data of vote count from its **1,502 PVT** Observers who were deployed to a nationally representative random sample of polling stations located in every region and constituency of the country. CODEO at this point can confidently verify the outcomes of the presidential election results as announced by the EC. The findings presented in this statement are based on data received from all **1,502 PVT** polling stations across the **275** constituencies in the country's **16** regions. The data was thoroughly checked for accuracy and internal consistency.

Table 1 below shows the percentages of the valid votes garnered by each of the twelve presidential candidates announced by the EC compared to the PVT estimates. In general, each candidate's official result closely matches the PVT estimate and falls within the estimated confidence of 95% range and the associated margin of error. Also, the PVT ranking of the presidential candidates based on their share of the valid votes received is largely similar to what was put out by the EC.

Table 1: EC Official Results and CODEO PVT Estimates (2020 Presidential Election)

Candidate	Party	EC Official Results	CODEO PVT Estimates		
			Estimate	Error Margin	Confidence Range
Nana Addo Dankwa Akufo-Addo	NPP	51.302%	50.98%	±1.20%	49.78% --- 52.18%
John Dramani Mahama	NDC	47.359%	47.66%	± 1.19%	46.47% --- 48.85%
Christian Kwabena Andrews	GUM	0.805%	0.80%	± 0.05%	0.75% --- 0.85%
Ivor Kobina Greenstreet	CPP	0.093%	0.09%	± 0.01%	0.08% --- 0.10%
David Asibi Ayindenaba Akpasera	PNC	0.083%	0.11%	± 0.05%	0.06% --- 0.16%
Alfred Kwame Asiedu Walker	IND.	0.074%	0.07%	± 0.01%	0.06% --- 0.08%
Percival Kofi Akpaloo	LPG	0.059%	0.07%	± 0.01%	0.06% --- 0.08%
Hassan Ayariga	APC	0.054%	0.05%	± 0.01%	0.04% --- 0.06%
Brigitte Akosua Dzogbenuku	PPP	0.052%	0.06%	± 0.01%	0.05% --- 0.07%
Nana Konadu Agyeman Rawlings	NDP	0.050%	0.05%	± 0.01%	0.04% --- 0.06%
Akua Donkor	GFP	0.042%	0.05%	± 0.01%	0.04% --- 0.06%
Henry Herbert Lartey	GCPP	0.027%	0.03%	± 0.01%	0.02% --- 0.04%

Note: PVT estimate margin of error is based on a 95% confidence level.

Aside the fact that the PVT estimates of candidates' vote share received generally match the EC's official results, the PVT estimated rejected ballots of **2.25%** with a margin of error of **±0.11%** is also consistent with the EC's figure of **2.33%**. The official voter turnout rate of **79.0%** announced by the EC is slightly outside the PVT voter turnout confidence range based on the estimated turnout rate of **79.69%** and error margin of **±0.46%** (Table2). It is worth noting, however, that this could be due to exclusion of the outstanding results from Techiman South Constituency with a total number of 128,018 registered voters.

Table 2: EC Official Turnout and Rejected Ballot Rates and CODEO PVT Estimates (2020 Presidential Election)

Candidate	EC Official Results	CODEO PVT Estimates		
		Estimate	Error Margin	Confidence Range
Voter Turnout Rate	79.00%	79.69%	±0.46%	79.23% --- 80.15%
Rejected Ballot Rate	2.33%	2.25%	± 0.11%	2.14% --- 2.36%

Note: PVT estimate margin of error is based on a 95% confidence level.

Conclusions

Given that the official result announced by the Electoral Commission for each candidate falls within their respective PVT estimated confidence ranges, CODEO can confidently confirm that its PVT estimates are consistent with the official presidential election results.

Not only do CODEO’s PVT estimates match the official results of the EC, but our Observers also reported that the two main parties (NDC and NPP) had party agents at over **99%** of polling stations and that both NDC and NPP party agents also signed the official declaration of polls and were given copies of those documents.

Further, evidence from CODEO’s PVT Observers showed that on December 7, 2020 voting and counting were conducted as per relevant electoral laws, with no significant incidents related to the voting process (*Refer to CODEO’s Preliminary Statement*). In that statement, CODEO noted that the arrangements put in place by the Electoral Commission from setup, voting to counting of ballots at polling stations were generally adequate and credible. In that statement, CODEO also projected a voter turnout and rejected ballot rates of approximately **80.0%** and **2.0%**, respectively, which has been re-confirmed in today’s statement of CODEO’s PVT estimates on the presidential results. Indeed, the EC official voter turnout and rejected ballot rates are largely consistent with the PVT projections. CODEO’s pre-election environment observation reports also noted a generally peaceful electoral environment, with political parties focusing their campaigns on policy and developmental issues, with a few incidents of use of abusive or inflammatory language recorded.

Thus, CODEO's pre-election and election day observation reports as well as our PVT data should give Ghanaians confidence the results declared by the Electoral Commission reflect how Ghanaians voted in the December 7 presidential polls. Accordingly, CODEO advises the contestants in the presidential election, their supporters, and the general public to place confidence in the official presidential results as declared by the Electoral Commission. We encourage any party or candidate with issues about the presidential results to peacefully resolve these through proper legal and procedural channels. CODEO appeals to Ghanaians to remain calm, law-abiding and allow the systems to work.

CODEO further commends the maturity shown by Ghanaians throughout the voting, counting, and collating processes. CODEO deeply regrets the isolated cases of violence at some polling stations and constituency collation centers, which led to the loss of lives. CODEO expresses its condolences to the bereaved families, and wishes the injured citizens a speedy recovery.

Ladies and Gentlemen, please be assured that CODEO’s comprehensive election observation activities are not over yet. CODEO will continue to observe the post-election environment, and also organize a stakeholder review session(s) to draw lessons from the just concluded 2020 elections to inform future elections.

On behalf of the Advisory Board of CODEO and all its member organizations, we would like to thank the thousands of Ghanaians across the country that volunteered to serve as nonpartisan election Observers and the technical team who worked tirelessly to protect the integrity of the December 7,

2020 polls. CODEO also commends the security agencies for their professionalism in maintaining peace during voting, counting, and collation of results. The Coalition acknowledges and commends other stakeholders, including other local and international observer groups, and the entire population for the high sense of comportsment during the elections.

CODEO would also like to acknowledge the generous support of the American people through the United States Agency for International Development (USAID). The Coalition further acknowledges the additional support of the STAR-Ghana Foundation with funding from UKAID and the European Union.

GOD BLESS OUR HOME LAND GHANA!!!!

Signed:

Sheikh Arimiyawo Shaibu
Acting Chair, CODEO
(For and on Behalf of the Advisory Board)
CODEO Secretariat
Thursday, December 10, 2020

APPENDIX A

PARALLEL VOTE TABULATION RESULTS FOR PRESIDENTIAL ELECTIONS IN 2008, 2012, AND 2016

Table A1: Official EC Results and CODEO PVT Estimates for the 2008 Presidential Election (Round One)

Candidate	Party	EC Official Result	CODEO PVT	
			Estimate	Margin of Error
Nana Addo Dankwa Akufo-Addo	NPP	49.1%	49.8%	±1.60%
Prof. John Evans Atta Mills	NDC	47.9%	47.4%	±1.60%
Dr. Papa Kwesi Nduom	CPP	1.30%	1.30%	±0.10%
Dr. Edward Nasigre Mahama	PNC	0.90%	0.80%	±0.20%
Emmanuel Ansah-Antwi	DFP	0.30%	0.30%	±0.00%
Kwesi Amofo-Yeboah	INDEPENDENT	0.20%	0.20%	±0.01%
Kwabena Adjei	RDP	0.10%	0.10%	±0.00%
Thomas Ward-Brew	DPP	0.10%	0.10%	±0.00%

Note: PVT estimate margin of error is based on a 95% confidence level.

Table A2: Official EC Results and CODEO PVT Estimates for the 2008 Presidential Election (Run-off)

Candidate	Party	EC Official Result	CODEO PVT	
			Estimate	Margin of Error
Prof. John Evans Atta Mills	NDC	50.13%	50.19%	±1.70%
Nana Addo Dankwa Akufo-Addo	NPP	49.87%	49.81%	±1.70%

Note: PVT estimate margin of error is based on a 95% confidence level.

Table A3: Official EC Results and CODEO PVT Estimates for the 2012 Presidential Election

Candidate	Party	EC Official Result	CODEO PVT	
			Estimate	Margin of Error
John Dramani Mahama	NDC	50.70%	51.38%	±1.33%
Nana Addo Dankwa Akufo-Addo	NPP	47.74%	47.17%	±1.35%
Dr. Papa Kwesi Nduom	PPP	0.59%	0.53%	±0.04%
Henry Herbert Lartey	GCPP	0.35%	0.34%	±0.02%
Ayariga Hassan	PNC	0.22%	0.18%	±0.03%
Michael Abu Sakara Foster	CPP	0.18%	0.18%	±0.02%
Jacob Osei Yeboah	INDEPENDENT	0.14%	0.13%	±0.02%
Akwasi Addai Odiwe	UFP	0.08%	0.08%	±0.01%

Note: PVT estimate margin of error is based on a 95% confidence level.

Table A4: Official EC Results and CODEO PVT Estimates for the 2016 Presidential Election

Candidate	Party	EC Official Result	CODEO PVT	
			Estimate	Margin of Error
Nana Addo Dankwa Akufo-Addo	NPP	53.85%	53.75%	±1.29%
John Dramani Mahama	NDC	44.40%	44.32%	±1.25%
Dr. Papa Kwesi Nduom	PPP	1.00%	1.07%	±0.16%
Ivor Kobina Greenstreet	CPP	0.24%	0.27%	±0.04%
Dr. Edward Mahama	PNC	0.21%	0.26%	±0.10%
Nana Konadu Agyeman-Rawlings	NDP	0.16%	0.18%	±0.04%
Jacob Osei Yeboah	IND.	0.15%	0.15%	±0.03%

Note: PVT estimate margin of error is based on a 95% confidence level.

Table A5: Official EC Figures and CODEO PVT Estimates for Voter Turnout and Rejected Ballots

	EC Official Figure	PVT Estimate	PVT Error Margin
2008 Voter Turnout Rate (Round 1)	69.5%	69.9%	--
2008 Rejected Ballot Rate (Round 1)	2.4%	2.2%	--
2008 Voter Turnout Rate (Run-off)	72.4%	72.3%	--
2008 Rejected Ballot Rate (Run-off)	1.02%	1.00%	--
2012 Voter Turnout Rate	79.43%	78.68%	±0.58%
2012 Rejected Ballot Rate	--	--	--
2016 Voter Turnout Rate	68.62%	69.33%	±0.48%
2016 Rejected Ballot Rate	1.54%	1.60%	±0.09%

APPENDIX B

2020 PARALLEL VOTE TABULATION SAMPLING METHODOLOGY

Introduction

In 2020 PVT, CODEO employed a nationally representative sample of 1,502 polling stations drawn from the official list of polling stations provided by the Electoral Commission. The sampled polling stations are spread across the 275 constituencies located with the 16 regions of the country. To ensure national representativeness, the sample was stratified at the regional and constituency levels.

We first arranged all 275 constituencies, together with their respective number of polling stations in each of the 16 regions. We then obtained the cumulative number of polling stations across the country. Based on the number of polling stations in each constituency across the 16 regions, we worked out the percentage share of each constituency in the total number of polling stations in the country. Subsequently, we used the estimated percentage shares to work out how much of the targeted 1,502 PVT polling stations should be allocated to each constituency.

The final stage of the sampling process is the random selection of actual polling stations for each constituency based on the number of polling stations allocated to it through the stratification processes (see Table B1).

Table B1: Distribution of National and Sampled Polling Stations | by region & constituency | 2020

Region	Constituency	Polling Stations Across 16 Regions of Ghana		PVT Sampled Polling stations	
		Number	% Share	Number	% Share
AHAFO	Asunafo North	196	0.5%	8	0.5%
	Asunafo South	123	0.3%	5	0.3%
	Asutifi North	104	0.3%	4	0.3%
	Asutifi South	92	0.2%	4	0.3%
	Tano North	129	0.3%	5	0.3%
	Tano South	140	0.4%	5	0.3%
ASHANTI	Adansi Asokwa	90	0.2%	3	0.2%
	Fomena	68	0.2%	3	0.2%
	New Edubiase	116	0.3%	4	0.3%
	Afigya Kwabre North	83	0.2%	3	0.2%
	Afigya Kwabre South	198	0.5%	8	0.5%
	Ahafo Ano North	132	0.3%	5	0.3%
	Ahafo Ano South-East	82	0.2%	3	0.2%
	Ahafo Ano South West	91	0.2%	4	0.3%
	Akrofuom	65	0.2%	3	0.2%
	Odotobri	138	0.4%	5	0.3%
	Manso Adubia	142	0.4%	5	0.3%
	Manso Nkwanta	130	0.3%	5	0.3%
	Asante Akim Central	114	0.3%	4	0.3%
	Asante Akim North	110	0.3%	4	0.3%
	Asante Akim South	161	0.4%	6	0.4%
	Asawase	207	0.5%	8	0.5%
	Asokwa	182	0.5%	7	0.5%
	Atwima Kwanwoma	234	0.6%	9	0.6%
	Atwima Mponua	201	0.5%	8	0.5%
	Atwima Nwabiagya North	151	0.4%	6	0.4%
	Atwima Nwabiagya South	187	0.5%	7	0.5%
	Bantama	166	0.4%	6	0.4%
	Bekwai	186	0.5%	7	0.5%
	Bosome Freho	86	0.2%	3	0.2%
	Bosomtwe	192	0.5%	7	0.5%
	Ejisu	206	0.5%	8	0.5%
	Ejura Sekyedumase	165	0.4%	6	0.4%
	Juaben	87	0.2%	3	0.2%
	Kwabre East	281	0.7%	11	0.7%
	Kwadaso Municipal	196	0.5%	8	0.5%
	Mampong	141	0.4%	5	0.3%
Manhyia North	137	0.4%	5	0.3%	
Manhyia South	109	0.3%	4	0.3%	

	Nhyiaeso	167	0.4%	6	0.4%
	Obuasi East	109	0.3%	4	0.3%
	Obuasi West	136	0.3%	5	0.3%
	Offinso South	167	0.4%	6	0.4%
	Offinso North	121	0.3%	5	0.3%
	Oforikrom	230	0.6%	9	0.6%
	Old Tafo	142	0.4%	5	0.3%
	Sekyere Afram Plains	61	0.2%	2	0.1%
	Nsuta/Kwamang/Beposo	112	0.3%	4	0.3%
	Effiduase/Asokore	97	0.2%	4	0.3%
	Kumawu	76	0.2%	3	0.2%
	Afigya Seyere East	147	0.4%	6	0.4%
	Suame	214	0.6%	8	0.5%
	Subin	170	0.4%	7	0.5%
BONO	Banda	45	0.1%	2	0.1%
	Berekum East	131	0.3%	5	0.3%
	Berekum West	60	0.2%	2	0.1%
	Dormaa Central	135	0.3%	5	0.3%
	Dormaa East	87	0.2%	3	0.2%
	Dormaa West	58	0.1%	2	0.1%
	Jaman North	110	0.3%	4	0.3%
	Jaman South	132	0.3%	5	0.3%
	Sunyani East	256	0.7%	10	0.7%
	Sunyani West	195	0.5%	8	0.5%
	Tain	150	0.4%	6	0.4%
	Wenchi	136	0.3%	5	0.3%
BONO EAST	Atebubu/Amantin	177	0.5%	7	0.5%
	Kintampo North	167	0.4%	6	0.4%
	Kintampo South	129	0.3%	5	0.3%
	Nkoranza North	88	0.2%	3	0.2%
	Nkoranza South	156	0.4%	6	0.4%
	Pru East	100	0.3%	4	0.3%
	Pru West	77	0.2%	3	0.2%
	Sene East	68	0.2%	3	0.2%
	Sene West	84	0.2%	3	0.2%
	Techiman South	265	0.7%	10	0.7%
	Techiman North	110	0.3%	4	0.3%
CENTRAL	Abura Asebu Kwamankese	156	0.4%	6	0.4%
	Agona East	130	0.3%	5	0.3%
	Agona West	191	0.5%	7	0.5%
	Ajumako Enyan Esiam	164	0.4%	6	0.4%
	Asikuma/Odoben/Brakwa	148	0.4%	6	0.4%
	Assin Central	95	0.2%	4	0.3%
	Assin North	100	0.3%	4	0.3%
	Assin South	125	0.3%	5	0.3%
	Awutu Senya East	293	0.8%	11	0.7%
	Awutu Senya West	198	0.5%	8	0.5%
	Cape Coast North	126	0.3%	5	0.3%
	Cape Coast South	112	0.3%	4	0.3%
	Effutu	143	0.4%	6	0.4%
	Ekumfi	96	0.2%	4	0.3%
	Gomoa Central	117	0.3%	5	0.3%
	Gomoa East	204	0.5%	8	0.5%
	Gomoa West	167	0.4%	6	0.4%
	Hemang Lower Denkyira	84	0.2%	3	0.2%
	Komenda Edina Eguafo Abrem	193	0.5%	7	0.5%
	Mfantseman	221	0.6%	9	0.6%
	Twifo Atti Morkwa	121	0.3%	5	0.3%
	Upper Denkyira East	152	0.4%	6	0.4%
	Upper Denkyira West	103	0.3%	4	0.3%
EASTERN	Abuakwa North	97	0.2%	4	0.3%
	Abuakwa South	111	0.3%	4	0.3%
	Achiase	71	0.2%	3	0.2%
	Afram Plains South	120	0.3%	5	0.3%
	Akropong	146	0.4%	6	0.4%
	Akuapem South	105	0.3%	4	0.3%
	Ofoase/Ayirebi	108	0.3%	4	0.3%
	Asene/Manso/Akroso	97	0.2%	4	0.3%
	Asuogyaman	145	0.4%	6	0.4%
	Atiwa East	77	0.2%	3	0.2%
	Atiwa West	70	0.2%	3	0.2%
	Ayensuano	124	0.3%	5	0.3%
	Akim Oda	92	0.2%	4	0.3%

	Abirem	103	0.3%	4	0.3%
	Akim Swedru	54	0.1%	2	0.1%
	Akwatia	117	0.3%	5	0.3%
	Fanteakwa North	130	0.3%	5	0.3%
	Fanteakwa South	85	0.2%	3	0.2%
	Kade	153	0.4%	6	0.4%
	Afram Plains North	126	0.3%	5	0.3%
	Abetifi	141	0.4%	5	0.3%
	Mpraeso	124	0.3%	5	0.3%
	Nkawkaw	172	0.4%	7	0.5%
	Lower Manya Krobo	156	0.4%	6	0.4%
	New Juaben North	94	0.2%	4	0.3%
	New Juaben South	190	0.5%	7	0.5%
	Nsawam/Adoagyiri	193	0.5%	7	0.5%
	Okere	97	0.2%	4	0.3%
	Suhum	159	0.4%	6	0.4%
	Upper Manya Krobo	114	0.3%	4	0.3%
	Upper West Akim	111	0.3%	4	0.3%
	Lower West Akim	135	0.3%	5	0.3%
	Yilo Krobo	158	0.4%	6	0.4%
GREATER ACCRA	Ablekuma Central	306	0.8%	12	0.8%
	Ablekuma North	283	0.7%	11	0.7%
	Ablekuma South	197	0.5%	8	0.5%
	Ablekuma West	215	0.6%	8	0.5%
	Ada	92	0.2%	4	0.3%
	Sege	89	0.2%	3	0.2%
	Adentan	304	0.8%	12	0.8%
	Ashaiman	351	0.9%	14	0.9%
	Ododiodiodio	259	0.7%	10	0.7%
	Ayawaso Central	187	0.5%	7	0.5%
	Ayawaso East	113	0.3%	4	0.3%
	Ayawaso North	129	0.3%	5	0.3%
	Ayawaso West Wuogon	207	0.5%	8	0.5%
	Anyaa/Sowutuom	293	0.8%	11	0.7%
	Dome/Kwabanya	356	0.9%	14	0.9%
	Trobu	281	0.7%	11	0.7%
	Bortianor-Ngleshie Amanfro	225	0.6%	9	0.6%
	Domeabra-Obom	106	0.3%	4	0.3%
	Amasaman	300	0.8%	12	0.8%
	Korle Klottay	222	0.6%	9	0.6%
	Kpone-Katamanso	252	0.6%	10	0.7%
	Krowor	233	0.6%	9	0.6%
	Dadekotopon	254	0.7%	10	0.7%
	Madina	307	0.8%	12	0.8%
	Ledzokuku	342	0.9%	13	0.9%
	Ningo Prampram	193	0.5%	7	0.5%
	Okaikwei Central	139	0.4%	5	0.3%
	Okaikwei North	162	0.4%	6	0.4%
	Okaikwei South	197	0.5%	8	0.5%
	Shai-Osudoku	138	0.4%	5	0.3%
	Tema Central	143	0.4%	6	0.4%
	Tema East	235	0.6%	9	0.6%
	Tema West	280	0.7%	11	0.7%
	Weija-Gbawe	235	0.6%	9	0.6%
NORTH EAST	Bunkpurugu	99	0.3%	4	0.3%
	Chereponi	80	0.2%	3	0.2%
	Nalerigu / Gambaga	169	0.4%	7	0.5%
	Yagaba/ Kubori	68	0.2%	3	0.2%
	Walewale	162	0.4%	6	0.4%
	Yunyoo	73	0.2%	3	0.2%
NORTHERN	Gushegu	138	0.4%	5	0.3%
	Karaga	114	0.3%	4	0.3%
	Kpandai	140	0.4%	5	0.3%
	Kumbungu	105	0.3%	4	0.3%
	Mion	90	0.2%	3	0.2%
	Nanton	79	0.2%	3	0.2%
	Bimbilla	172	0.4%	7	0.5%
	Wulesnsi	96	0.2%	4	0.3%
	Saboba	81	0.2%	3	0.2%
	Sagnarigu	146	0.4%	6	0.4%
	Tamale North	102	0.3%	4	0.3%
	Savelugu	124	0.3%	5	0.3%
	Tamale Central	168	0.4%	6	0.4%

	Tamale South	229	0.6%	9	0.6%
	Tatale/Sanguli	77	0.2%	3	0.2%
	Tolon	130	0.3%	5	0.3%
	Yendi	148	0.4%	6	0.4%
	Zabzugu	81	0.2%	3	0.2%
OTI	Biakoye	133	0.3%	5	0.3%
	Buem	148	0.4%	6	0.4%
	Akan	115	0.3%	4	0.3%
	Krachi East	121	0.3%	5	0.3%
	Krachi Nchumuru	88	0.2%	3	0.2%
	Krachi West	84	0.2%	3	0.2%
	Nkwanta North	128	0.3%	5	0.3%
	Nkwanta South	153	0.4%	6	0.4%
SAVANNAH	Bole-Bamboi	116	0.3%	4	0.3%
	Yapei/Kusawgu	173	0.4%	7	0.5%
	Salaga South	118	0.3%	5	0.3%
	Salaga North	50	0.1%	2	0.1%
	Daboya / Mankarigu	76	0.2%	3	0.2%
	Sawla-Tuna-Kalba	118	0.3%	5	0.3%
	Damongo	87	0.2%	3	0.2%
UPPER EAST	Bawku Central	150	0.4%	6	0.4%
	Zebilla	139	0.4%	5	0.3%
	Binduri	88	0.2%	3	0.2%
	Bolga East	44	0.1%	2	0.1%
	Bolgatanga Central	148	0.4%	6	0.4%
	Bongo	124	0.3%	5	0.3%
	Builsa North	82	0.2%	3	0.2%
	Builsa South	58	0.1%	2	0.1%
	Garu	71	0.2%	3	0.2%
	Navrongo Central	127	0.3%	5	0.3%
	Chiana-Paga	130	0.3%	5	0.3%
	Nabdram	51	0.1%	2	0.1%
	Pusiga	95	0.2%	4	0.3%
	Talensi	99	0.3%	4	0.3%
	Tempene	99	0.3%	4	0.3%
UPPER WEST	Daffiama/Bussie/Issa	68	0.2%	3	0.2%
	Jirapa	138	0.4%	5	0.3%
	Lambussie	80	0.2%	3	0.2%
	Lawra	90	0.2%	3	0.2%
	Nadowli/Kaleo	114	0.3%	4	0.3%
	Nandom	89	0.2%	3	0.2%
	Sissala East	97	0.2%	4	0.3%
	Sissala West	95	0.2%	4	0.3%
	Wa East	121	0.3%	5	0.3%
	Wa Central	200	0.5%	8	0.5%
	Wa West	141	0.4%	5	0.3%
VOLTA	Adaklu	47	0.1%	2	0.1%
	Afadjato South	95	0.2%	4	0.3%
	Agotime Ziope	73	0.2%	3	0.2%
	Akatsi North	58	0.1%	2	0.1%
	Akatsi South	133	0.3%	5	0.3%
	Anlo	138	0.4%	5	0.3%
	Central Tongu	109	0.3%	4	0.3%
	Ho Central	247	0.6%	10	0.7%
	Ho West	145	0.4%	6	0.4%
	Hohoe	124	0.3%	5	0.3%
	Keta	121	0.3%	5	0.3%
	Ketu North	138	0.4%	5	0.3%
	Ketu South	279	0.7%	11	0.7%
	Kpando	87	0.2%	3	0.2%
	North Dayi	72	0.2%	3	0.2%
	North Tongu	149	0.4%	6	0.4%
	South Dayi	70	0.2%	3	0.2%
	South Tongu	167	0.4%	6	0.4%
WESTERN	Ahanta West	174	0.4%	7	0.5%
	Effia	96	0.2%	4	0.3%
	Kwesimintsim	103	0.3%	4	0.3%
	Ellembelle	153	0.4%	6	0.4%
	Essikadu-Ketan	154	0.4%	6	0.4%
	Jomoro	216	0.6%	8	0.5%
	Mpohor	74	0.2%	3	0.2%
	Evalue Ajomoro Gwira	117	0.3%	5	0.3%
	Prestea Huni-Valley	269	0.7%	10	0.7%

	Sekondi	89	0.2%	3	0.2%
	Shama	126	0.3%	5	0.3%
	Takoradi	119	0.3%	5	0.3%
	Tarkwa Nsuaem	252	0.6%	10	0.7%
	Amenfi Central	163	0.4%	6	0.4%
	Amenfi East	218	0.6%	8	0.5%
	Amenfi West	161	0.4%	6	0.4%
	Wassa East	133	0.3%	5	0.3%
WESTERN NORTH	Aowin	175	0.5%	7	0.5%
	Bia East	75	0.2%	3	0.2%
	Bia West	156	0.4%	6	0.4%
	Bibiani-Anhwiaso-Bekwai	224	0.6%	9	0.6%
	Bodi	79	0.2%	3	0.2%
	Juaboso	132	0.3%	5	0.3%
	Sefwi Akontombra	93	0.2%	4	0.3%
	Sefwi Wiawso	169	0.4%	7	0.5%
	Suaman	55	0.1%	2	0.1%
TOTAL		38,866	100.0%	1,502	100.0%