

GHANA
COVERAGE, APPROPRIATE USE, AWARENESS, AND EXPOSURE INDICATORS
NETMARK HOUSEHOLD SURVEY, 2004
REVISED 5/19/05

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SURVEY SITES

GHANA	Total Sample	Urban	Near Rural 100 km from Urban	Far Rural 200 km from Urban
Greater Accra	300	120	90	90
Volta (Keta)	300	120	90	90
Ashanti (Kumasi)	300	120	90	90
Upper West (Wa)	300	120	90	90
Northern Region (Tamale)	300	120	90	90
TOTAL	1500	600	450	450

Table1: Percent of households owning mosquito nets and insecticide-treated nets
Among all households

	Total	Sites (city plus surrounding rural areas)					Urban Accra only	Urban/Rural		Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale		All Urban	All Rural	1 Low	2	3	4	5 High
Own net	38.1	17.3	63.8	18.7	44.8	46.2	20.0	39.1	37.5	42.7	37.8	34.1	36.7	39.3
Own ever-treated net	20.9	10.3	19.6	10.0	29.4	35.5	13.3	19.0	22.2	20.9	21.3	14.2	20.0	28.3
Own ITN (12 mo.)	18.9	8.6	18.3	9.3	24.7	33.8	13.3	16.7	20.4	19.5	19.6	12.3	17.7	25.7
BASE	1500	301	301	300	299	299	120	599	901	302	296	302	300	300

Table 2: Number of mosquito nets owned
Among households owning each type of mosquito net

	Total	Sites (city plus surrounding rural areas)					Urban Accra only	Urban/Rural		Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale		All Urban	All Rural	1 Low	2	3	4	5 High
Nets Mean	1.5	1.3	2.0	1.4	1.1	1.1	1.3	1.7	1.3	1.3	1.4	1.6	1.5	1.5
Nets BASE	572	52	192	56	134	138	24	234	338	129	112	103	110	118
Ever-treated nets Mean	1.2	1.2	1.4	1.3	1.0	1.1	1.2	1.3	1.1	1.0	1.1	1.1	1.2	1.3
Ever-treated nets BASE	314	31	59	30	88	106	16	114	200	63	63	43	60	85
ITN (12 mo.) Mean	1.1	1.1	1.3	1.3	1.0	1.1	1.1	1.2	1.1	1.0	1.1	1.1	1.2	1.2
ITN (12 mo.) BASE	284	26	55	28	74	101	16	100	184	59	58	37	53	77

Table 3: Ownership of baby nets (non-hanging)
Among all households

	Total	Sites (city plus surrounding rural areas)					Urban Accra only	Urban/Rural		Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale		All Urban	All Rural	1 Low	2	3	4	5 High
Own a baby net	24.5	29.6	25.6	38.7	15.4	13.0	31.7	25.9	23.5	11.9	17.6	23.5	33.0	36.3
BASE	1500	301	301	300	299	299	120	599	901	302	296	302	300	300
Average number of baby nets owned	1.1	1.2	1.1	1.1	1.0	1.1	1.2	1.1	1.1	1.0	1.1	1.1	1.1	1.1
BASE	367	89	77	116	46	39	38	155	212	36	52	71	99	109
Own only a baby net (no hanging net)	14.3	24.3	6.3	29.3	5.7	6.0	25.8	14.4	14.3	6.6	9.8	15.2	19.3	20.7
BASE	1500	301	301	300	299	299	120	599	901	302	296	302	300	300

Table 4: Percent of nets treated
Among total number of nets owned

	Total	Sites (city plus surrounding rural areas)					Urban Accra Only	Urban/Rural		Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale		All Urban	All Rural	1 Low	2	3	4	5 High
Bought pretreated ("pretreated")	37.1	55.4	17.4	40.3	51.0	61.2	63.3	32.4	41.3	32.5	37.8	27.9	33.5	51.7
Treated since purchase ("post-treated")	19.3	9.2	10.7	19.5	29.6	33.3	10.0	15.9	22.4	18.5	17.5	11.4	22.2	26.1
Ever treated	44.9	56.9	23.2	49.4	60.1	72.9	63.3	37.9	51.3	40.1	45.8	30.4	44.9	61.6
Currently treated (12 mo.)	39.9	43.1	20.4	46.8	50.3	69.7	60.0	32.4	46.6	37.7	41.3	25.3	39.7	53.7
BASE	808	65	358	77	153	155	30	383	425	162	155	158	156	177

Table 5: Source of nets
Among total number of nets owned, where respondent knew source of net

	Total	Site (city plus surrounding rural areas)					Urban Accra only	Location		Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale		All Urban	All Rural	1 Low	2	3	4	5 High
COMMERCIAL	62.7	65.0	85.3	66.7	44.3	27.6	67.9	70.8	55.5	59.5	58.5	74.3	61.9	59.8
Market	49.8	41.7	75.8	47.8	32.9	12.5	28.6	57.2	43.3	46.8	49.7	65.5	49.7	39.1
Kiosk/ Street vendor	1.1	.0	.0	2.8	2.7	1.3	.0	.0	1.9	3.2	2.1	.0	.0	.0
Itinerant vendor	2.6	1.7	2.1	2.9	2.0	4.6	3.6	1.4	3.7	5.7	2.0	2.7	2.0	.6
Pharmacy/ Drug store	3.5	8.3	3.5	8.7	.7	2.0	17.9	4.2	2.9	.0	.7	2.7	3.4	10.1
General shop	1.0	.0	.3	1.4	2.0	2.0	.0	2.2	.0	.0	.0	.7	3.4	1.2
Textile shop	.1	1.7	.0	.0	.0	.0	3.6	.3	.0	.0	.0	.0	.0	.6
Supermarket	.1	.0	.0	.0	.0	.7	.0	.3	.0	.0	.0	.7	.0	.0
Tailor	.7	.0	1.5	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.7	2.4
Petrol station	.8	3.3	.3	1.4	.0	1.3	7.1	1.4	.2	.0	.7	.0	.0	3.0
Gift	2.6	6.7	1.8	1.4	3.4	2.6	7.1	2.5	2.7	2.5	3.4	2.0	2.0	3.0
Employer	.4	1.7	.0	.0	.7	.7	.0	.0	.7	1.3	.0	.0	.7	.0
NON-COMMERCIAL	37.3	35.0	14.7	33.3	55.7	72.4	32.1	29.2	44.5	40.5	41.5	25.7	38.1	40.2
Clinic	34.5	33.3	10.0	30.4	54.4	71.7	32.1	24.7	43.0	37.3	40.1	24.3	34.7	35.5
Project	2.0	.0	3.8	1.4	.0	.7	.0	3.6	.5	1.3	.7	.7	3.4	3.6
Women's group	.4	.0	.0	1.4	1.3	.0	.0	.0	.7	1.3	.7	.0	.0	.0
Other non-commercial source	.5	1.7	.9	.0	.0	.0	.0	.8	.2	.6	.0	.7	.0	1.2
BASE	769	60	339	69	149	152	28	360	409	158	147	148	147	169

Table 6: Awareness of nets and insecticide treated mosquito nets
Among all respondents

	Total	Sites (city plus surrounding rural areas)					Urban Accra Only	Urban/Rural		Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale		All Urban	All Rural	1 Low	2	3	4	5 High
No	8.6	5.6	6.6	11.3	12.7	6.7	3.3	8.0	9.0	15.2	9.8	8.9	5.7	3.3
Yes	91.4	94.4	93.4	88.7	87.3	93.3	96.7	92.0	91.0	84.8	90.2	91.1	94.3	96.7
BASE	1500	301	301	300	299	299	120	599	901	302	296	302	300	300

Table 7: Seen or heard anything about mosquito nets treated with insecticide in past 12 months
Among all respondents

	Total	Sites (city plus surrounding rural areas)					Urban Accra only	Urban/Rural		Net Ownership		Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale		All Urban	All Rural	Non-Owners	Owners	1 Low	2	3	4	5 High

No	10.5	8.6	8.0	12.3	16.4	7.0	1.7	8.7	11.7	13.9	4.9	18.2	11.5	12.6	6.3	3.7
Yes	89.5	91.4	92.0	87.7	83.6	93.0	98.3	91.3	88.3	86.1	95.1	81.8	88.5	87.4	93.7	96.3
BASE	1500	301	301	300	299	299	120	599	901	928	572	302	296	302	300	300

Table 8a: Percent of vulnerable groups who slept under a net and under ITN last night
Among persons most vulnerable to severe malaria in **ALL** households

	Total	Site					Location			Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale	Urban Capital	Total Urban	Total Rural	1 low	2	3	4	5 high
Children <5														
Hanging net	25.3	9.8	46.9	12.3	27.8	32.6	11.4	26.3	24.7	29.0	26.3	19.8	26.8	24.3
Hanging or baby net	30.1	17.0	50.4	20.4	30.4	34.5	19.8	30.9	29.6	30.8	30.1	23.3	33.6	33.1
ITN (12 mo.)	12.6	4.5	13.7	6.3	15.3	23.8	7.2	10.2	14.0	13.0	13.9	5.9	14.8	15.7
ITN (6 mo.)	10.3	3.3	11.8	5.8	13.2	18.0	4.8	8.4	11.5	11.2	9.3	4.7	13.1	13.6
BASE	2008	400	373	446	378	411	167	753	1255	445	418	404	366	375
WRA / Females 15-49														
Any net	23.4	8.1	47.1	10.3	23.6	30.6	8.4	24.2	22.7	28.4	24.4	20.9	22.0	21.6
ITN (12 mo.)	10.9	3.6	11.9	5.3	12.7	22.7	4.7	8.7	12.5	12.1	12.2	5.9	11.2	12.8
ITN (6 mo.)	8.7	2.6	9.7	4.8	10.7	17.2	3.7	6.9	10.1	10.1	8.1	4.4	10.0	10.9
BASE	2071	422	403	456	411	379	190	875	1196	388	418	407	419	439
Pregnant women														
Any net	21.0	14.3	29.4	13.0	20.0	29.2	.0	22.2	20.0	25.0	37.5	11.1	13.0	26.3
ITN (12 mo.)	7.6	4.8	5.9	8.7	0.0	16.7	0.0	4.4	10.0	10.0	25.0	0.0	0.0	10.5
ITN (6 mo.)	5.7	4.8	5.9	8.7	0.0	8.3	0.0	4.4	6.7	5.0	18.8	0.0	0.0	10.5
BASE	105	21	17	23	20	24	9	45	60	20	16	27	23	19

Table 8b: Percent of vulnerable groups who slept under a net last night
Among persons most vulnerable to severe malaria in **net-owning** households

	Total	Site					Location			Socio-Economic Status				
		Accra	Keta	Kumasi	Wa	Tamale	Urban Capital	Total Urban	Total Rural	1 low	2	3	4	5 high
Children <5														
Hanging net	68.1	56.5	76.4	66.3	60.7	69.8	55.9	70.2	66.8	67.9	73.3	62.0	72.1	64.5
Hanging or baby net	70.9	62.3	78.6	68.7	63.6	72.4	61.8	73.0	69.6	68.9	74.7	64.3	76.5	70.2
BASE	746	69	229	83	173	192	34	282	464	190	150	129	136	141
WRA / Females 15-49														
Any net	61.7	45.9	68.8	58.0	55.7	64.8	36.4	61.1	62.2	63.6	68.0	62.5	61.3	54.3
BASE	784	74	276	81	174	179	44	347	437	173	150	136	150	175
Pregnant women														
Any net	68.8	*	*	*	*	*	*	*	*	*	*	*	*	*
BASE	32	5	9	3	8	7	2	13	19	7	6	6	5	8

* Ns in subgroups too low to permit meaningful calculation