

Number of *Anopheles spp.* populations collected in Africa between 1987 and 2012 with resistance mechanisms detected or not detected [26][§].

Species or complex	Time period [^]	2000 and prior		2001 - 2003		2004 - 2006		2007 - 2009		2010 - 2012	
	Insecticide class	<i>D</i>	<i>ND</i>	<i>D</i>	<i>ND</i>	<i>D</i>	<i>ND</i>	<i>D</i>	<i>ND</i>	<i>D</i>	<i>ND</i>
<i>An. gambiae s.l.*</i>	Oxidases	11	0	2	0	35	3	14	2	5	16
	Esterases	11	1	2	0	6	1	7	2	9	12
	GSTs	11	1	2	0	9	0	5	7	14	7
	<i>kdr</i> (L1014S)	8	4	22	25	52	40	33	51	24	33
	<i>kdr</i> (L1014F)	28	7	45	62	133	62	134	48	64	26
	<i>Ace-IR</i>	0	0	0	0	14	7	15	75	22	25
<i>An. gambiae s.s.</i>	Oxidases	1	0	0	0	8	0	2	0	5	0
	Esterases	1	0	0	0	3	1	2	0	5	0
	GSTs	1	1	0	0	5	0	2	0	4	1
	<i>kdr</i> (L1014S)	8	2	17	21	46	20	25	32	6	21
	<i>kdr</i> (L1014F)	28	2	44	46	115	23	116	22	55	5
	<i>Ace-IR</i>	0	0	0	0	14	2	13	47	21	16
<i>An. arabiensis</i>	Oxidases	6	0	2	0	17	0	5	1	0	6
	Esterases	6	1	2	0	1	0	4	2	0	6
	GSTs	6	0	2	0	3	0	1	1	0	6
	<i>kdr</i> (L1014S)	0	0	3	4	4	18	7	18	4	12
	<i>kdr</i> (L1014F)	0	5	1	13	18	37	16	25	9	10
	<i>Ace-IR</i>	0	0	0	0	0	5	2	15	0	6
<i>An. funestus s.l.*</i>	Oxidases	1	19	9	0	2	0	5	0	0	0
	Esterases	5	14	9	0	2	0	3	1	0	0
	GSTs	4	16	9	0	0	0	4	0	0	0
	<i>kdr</i> (L1014S)	0	0	0	0	0	0	0	5	0	3
	<i>kdr</i> (L1014F)	0	0	0	0	0	1	0	3	0	3
	<i>Ace-IR</i>	0	0	0	0	0	0	0	3	0	0

[§] Data sources and extraction, compilation and verification processes are outlined in Methods section

[#] Includes all species within the complex plus non-differentiated species

[^] Refers to year of commencement of field collections

D = number of populations of the species/complex for which the specified mechanism was detected [26]. For target site mechanisms this refers to detection of the specified alleles; for metabolic mechanisms this refers to field populations exhibiting significantly higher enzyme activity and/or gene expression levels than that of the reference susceptible strain (using biochemical assays and/or detox chip microarrays).

ND = number of populations of the species/complex for which specified mechanisms was tested for but was not detected [26]